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**ASSESSMENT REPORT**

describing

**GEOCHEMICAL SAMPLING, AUGER SAMPLING, GEOLOGICAL MAPPING,  
DIAMOND DRILLING, AND GEOPHYSICAL SURVEYS**

at the

**RACKLA GOLD PROPERTY**

ACX 1-310, Rau 1-96, Rau 97F-100F, GF 3-4, Q 1-109, R 1-103, R 105-1337, RR 1-222,  
S 1-1250, T 1-202, T 215-236, T 247-270, T 272, T 274, T 293-322, T 339-374, T 376, T 378,  
T 385-426, T 431-472, T 474, T 477-670, T 671-3133, Jam 1-32, Dale 1-12, EN 1-192, IS 1-28,  
OS 1-576, OS 641-676, OS 749-770, OS 841-846, OS 913-1076, ST 1-517, Sten 1-142,  
SMAC 1-3

NTS 105M/14, 15, 106C/01, 02, 03, 04, 05, 06, 106D/01, 02, 03, 06, 07, 08 & 106B/04  
Latitude 64°04'N to 64°25' N; Longitude 135°27'W to 131°54'W

in the  
Mayo Mining District,  
Yukon Territory

Field work performed from April 5<sup>th</sup> to October 3<sup>rd</sup>, 2012

prepared by  
Archer, Cathro & Associates (1981) Limited

for

**ATAC RESOURCES LTD.**

by

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## INTRODUCTION

The Rackla Gold Property comprises a 1700 km<sup>2</sup> area of highly prospective platform to basin facies sedimentary rocks located along the northern edge of the Tintina Gold Belt at the transition from the Selwyn Basin to the Mackenzie Platform, in east central Yukon Territory. Various commodities have been explored for and discovered within the claim block. Historically, this exploration focused on base metal mineralization, while recently the emphasis has been directed towards gold potential. The property is owned 100% by ATAC Resources Ltd. (ATAC).

This report describes the work completed, methods and results of the 2012 exploration program conducted throughout the property from April 5<sup>th</sup> to October 3<sup>rd</sup>, 2012. Detailed breakdown of the work is shown in Table 1.

**Table I: Rackla Gold Property 2012 Work Summary**

Airstrip maintenance and construction	April 5 to October 3
Auger sampling	April 16 to May 22
Geophysical survey	May 7 to May 16th
Mapping Silt, soil and rock sampling Prospecting Trenching	May 24 to September 20
Diamond drilling	May 18 to September 30

Management and labour for the project was provided by Archer, Cathro & Associates (1981) Limited on behalf of ATAC. The authors participated in and/or supervised the geochemical sampling, prospecting, mapping, auger sampling, diamond drilling and airstrip construction. The authors' Statements of Qualifications are listed in Appendix I. Appendix II is a Statement of Expenditures related to the program.

Trans Territorial Consulting provided mapping services, and consultants from Geomantia Consulting and Hardrock Mineral Exploration provided guidance and expertise on data synthesis, regional setting and mineralization style.

The geochemical sampling program resulted in the collection of 19,332 soil samples, 659 silt samples and 1,507 rock samples. A total of 460.33 metres were drilled in 56 auger drill holes, while an additional 36,920 metres were completed in 116 diamond drill holes. For simplicity, this report will only provide detailed information on work required to keep the claims in good standing.

The Stewart airstrip was extended to 800 m by Bob's Contracting using a Kubota R320S loader provided by Atlin Small Engine and a John Deere 450 bulldozer provided by 15317 Yukon Ltd. This work was done to maximize the loads carried off the airstrip by our main support aircraft, a Cessna Caravan.

Aurora Geosciences completed 26.5 line kilometres of Total Field Magnetics and VLF-EM ground geophysical surveys.

### **PROPERTY LOCATION, CLAIM DATA, ACCESS AND INFRASTRUCTURE**

The Rackla Gold Property consists of 8618 contiguous mineral claims located from 64°04'N to 64°11'N latitude and stretching from 135°27'W to 131°54'W longitude on NTS map sheets 105M/14, 15, 106C/01, 02, 03, 04, 05, 06, 106D/01, 02, 03, 06, 07, 08 & 106B/04 (Figure 1). The claims are all registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Specifics concerning claim registration are tabulated below in Table I while the locations of individual claims are shown on Figures 2-10.

**Table II: Rackla Gold Property Claim Information**

Claim Name	Grant Number	Expiry Date**
ACX 1-234	YD08251-YD08484	28-Apr-19
235-310	YD33163-YD33238	28-Apr-19
AT 1-206	YF44251-YF44456	28-Apr-18
BT 1-192	YF42501-YF42692	28-Apr-18
EX 1-18	YD72482-YD72499	28-Apr-18
GF 3-4	YC32305-YC32306	28-Apr-26
PH 1-22	YE55701-YE55722	28-Apr-18
Q 1-13	YC92361-YC92373	28-Apr-23
14	YC92470	28-Apr-23
15-109	YC92375-YC92469	28-Apr-23
R 1-103	YC68334-YC68436	28-Apr-25
105-1295	YC68438-YC69628	28-Apr-25
1296-1337	YC70595-YC70636	28-Apr-22
Rau 1-64	YC50268-YC50331	28-Apr-32
65-96	YC57529-YC57560	28-Apr-25
97F-98F	YC69925-YC69926	28-Apr-26
99F-100F	YC69961-YC69962	28-Apr-26
RR 1-222	YC89701-YC89922	28-Apr-15
S 1-700	YC90801-YC91500	28-Apr-23
701-842	YC91901-YC92042	28-Apr-23
843	YC92355	28-Apr-23
844-1154	YC92044-YC92354	28-Apr-21
1155-1244	YD09635-YD09724	01-Mar-19
1245-1246*	YD09725-YD09726	01-Mar-20
1247	YD09727	01-Mar-19
1248*	YD09728	01-Mar-20

1249-1250	YD09729-YD09730	01-Mar-19
T 1-202	YD09731-YD09932	01-Mar-14
215-236	YD09945-YD09966	01-Mar-14
247-270	YD09977-YD10000	01-Mar-14
272	YD10002	01-Mar-14
274	YD10004	01-Mar-14
293-322	YD10023-YD10052	01-Mar-14
339-374	YD10069-YD10104	01-Mar-14
376	YD10106	01-Mar-14
378	YD10108	01-Mar-14
385-426	YD10115-YD10156	01-Mar-14
431-472	YD10161-YD10202	01-Mar-14
474	YD10204	01-Mar-14
T 477-670	YD10207-YD10400	01-Mar-14
671-747	YD22801-YD22877	01-Mar-14
748-1071	YD22878-YD23201	01-Mar-21
1072-1521	YD23202-YD23651	01-Mar-14
1522-2157	YD23652-YD24287	01-Mar-19
2158	YD24288	01-Mar-21
2159	YD24289	01-Mar-19
2160	YD24290	01-Mar-21
2161	YD24291	01-Mar-19
2162	YD24292	01-Mar-21
2163	YD24293	01-Mar-19
2164	YD24294	01-Mar-21
2165	YD24295	01-Mar-19
2166	YD24296	01-Mar-21
2167	YD24297	01-Mar-19
2168	YD24298	01-Mar-21
2169	YD24299	01-Mar-19
2170	YD24300	01-Mar-21
2171	YD24301	01-Mar-19
2172	YD24302	01-Mar-21
2173	YD24303	01-Mar-19
2174	YD24304	01-Mar-21
2175	YD24305	01-Mar-19
2176	YD24306	01-Mar-21
2177	YD24307	01-Mar-19
2178	YD24308	01-Mar-21

2179	YD24309	01-Mar-19
2180	YD24310	01-Mar-21
2181	YD24311	01-Mar-19
2182	YD24312	01-Mar-21
2183	YD24313	01-Mar-19
2184	YD24314	01-Mar-21
2185	YD24315	01-Mar-19
2186	YD24316	01-Mar-21
2187	YD24317	01-Mar-19
2188	YD24318	01-Mar-21
2189	YD24319	01-Mar-19
2190	YD24320	01-Mar-21
2191	YD24321	01-Mar-19
2192	YD24322	01-Mar-21
2193	YD24323	01-Mar-19
2194	YD24324	01-Mar-21
2195	YD24325	01-Mar-19
2196	YD24326	01-Mar-21
2197	YD24327	01-Mar-19
2198	YD24328	01-Mar-21
2199	YD24329	01-Mar-19
2200	YD24330	01-Mar-21
2201	YD24331	01-Mar-19
2202	YD24332	01-Mar-21
2203	YD24333	01-Mar-19
2204-2570	YD24334-YD24700	01-Mar-21
2571-2870	YD11401-YD11700	01-Mar-21
2871-2957	YD32901-YD32987	01-Mar-21
2958	YD32988	01-Mar-24
2959	YD32989	01-Mar-21
2960	YD32990	01-Mar-24
2961	YD32991	01-Mar-21
2962-3004	YD32992-YD33034	01-Mar-24
3005	YD33035	01-Mar-21
3006	YD33036	01-Mar-24
3007	YD33037	01-Mar-21
3008-3125	YD33038-YD33155	01-Mar-24
3126-3131	YD33156-YD33161	01-Mar-14
3132-3133	YD33239-YD33240	01-Mar-21

WH 1-61	YF41901-YF41961	28-Apr-18
Jam 1-32	YD08501-YD08532	28-Apr-20
Dale 1-12	YD08533-YD08544	28-Apr-27
EN 1-192	YD01401-YD01592	28-Apr-20
IS 1-28	YC99751-YC99778	28-Apr-20
OS 1-576	YD69731-YD70306	28-Apr-18
641-676	YD70371-YD70406	28-Apr-20
749-770	YD70479-YD70500	28-Apr-20
841-846	YD70571-YD70576	28-Apr-20
913-1076	YD70643-YD70806	28-Apr-20
ST 1-431	YD26901-YD27331	28-Apr-24
432-517	YD27332-YD27417	28-Apr-21
Sten 1-20	YC99501-YC99520	28-Apr-29
21-38	YC99523-YC99540	28-Apr-27
39-54	YD08485-YD08500	28-Apr-27
55-142	YD10405-YD10492	28-Apr-27
Smac 1-2	YD07302-YD07303	01-Mar-17
3	YD07301	01-Mar-17
* Claims within the Peel River watershed region.		
** Expiry dates include 2012 work which has been filed for assessment credit but not yet accepted.		

The property lies 100 km northeast of Mayo, the nearest supply centre. The closest road access is to the community of Keno City, situated about 49 km by road northeast of Mayo and 55 km by air southwest of the property. Mayo and Keno City can be reached in all seasons by two wheel drive vehicles using the Yukon highway system. The Wind River trail is also accessible via the Yukon highway system from McQuesten Lake near Keno City and crosses the western portion of the property. This winter trail has been used intermittently by various exploration companies since it was built in the late 1960s.

Access to the project in 2012 was routed via Mayo to the Rau, Rackla or Stewart airstrips. Alcan Air provided the project's daily service flights with a Cessna 208B Grand Caravan. Black Sheep Aviation assisted mainly in the spring by providing a DHC-3 Otter on skis. Great River Air provided occasional service flights utilizing a BN-Islander. Large or bulky supplies were brought to the property on Nomad Air's Skyvan or Alcan Air's DH6 Twin Otter. The locations of airstrips and camps are shown on Figure 11.

Daily access to work areas on the project and between the airstrips and camps was provided by one of four helicopters. Fireweed Helicopters Ltd. supplied a combination of two Hughes 500D and one MD 520 N models and Horizon Helicopters provided a Eurocopter AS350 SD2 (A-Star) and a Hughes MD900. The MD 520N provided daily employee transportation to and from work sites for samplers and geologists conducting mapping and silt, soil and rock sampling across the property; the two Hughes 500D and the Eurocopter AS350 SD2 provided support for drilling,



mapping and sampling from the Nadaleen camp. Fireweed also supplied a Bell 204 helicopter for moving the John Deere 450 bulldozer around the property. Trans North Helicopters provided occasional support.

### **HISTORY AND PREVIOUS WORK**

Locations of showings referred to in this report can be found on Figure 12.

#### **RAU TREND**

The earliest reported exploration within the area of the Rackla Gold Property occurred in 1922 following the discovery of silver mineralization at Keno Hill; prospectors first identified and staked mineralized float occurrences at Carpenter Ridge in the far northwest corner of the current property. In 1924, reconnaissance work conducted by the Geological Survey of Canada discovered galena-calcite-siderite in float on the southwest end of Carpenter Ridge. A sample of this float returned 8.75 oz. silver and 56.0% lead (Cockfield, 1925); however, the source of this mineralization was not found. Hand pits were dug in 1927 and 1928 but little record remains of the work completed during this period. All claims were ultimately dropped.

Nearby at Grey Copper Hill, 9 km to the southeast, silver-rich tetrahedrite float was discovered in 1923 by an independent prospector. This showing and other nearby prospects were staked later that year. Several investigatory adits were dug into the hillside during follow up exploration but eventually all claim holdings lapsed.

Between 1930 and 1974 Grey Copper Hill was staked several times by independent prospectors and exploration companies, including Cypress Resources Limited and United Keno Hill Mines Limited. Little work was reported (Hilker, 1969) and all claims ultimately expired.

Hesca Resources Corporation Ltd re-staked Grey Copper Hill in 1974 and conducted prospecting, soil sampling, hand trenching and adit maintenance. In addition, two shallow, small diameter diamond drill holes totalling 56.3 m were drilled; however, the results from this drilling are not documented. No further work was done by Hesca and the claims were dropped (Deklerk and Traynor, 2004).

In spring 1978 Prism Resources Limited re-staked the area and conducted prospecting and geochemical sampling later that year. Soil sampling identified several lead and silver anomalies; however, follow up prospecting failed to explain them (Sivertz, 1979). A sample collected from an outcrop of dolomite yielded 0.60% lead and 51.43 g/t silver, while a tetrahedrite sample collected near an old adit assayed 7000 g/t silver (Sivertz, 1980). Prism allowed the claims to lapse.

Grey Copper Hill was again restaked in 1983 by a prospector who conducted grid soil sampling later that year. This program delineated silver anomalies coincident with surface lineations. No further work was completed and the claims expired.

In 1988 Bonventures Limited staked the area and conducted limited blast trenching, prospecting, mapping plus soil and rock sampling. A gossan zone with pyrite and strong fracture filling

malachite and azurite was identified between two collapsed adits (Carlyle, 1989). These claims eventually lapsed.

The area remained open until August of 2005 when an independent prospector staked four claims over the Grey Copper Hill showing. No work on these claims has been reported and they are now surrounded by the Rackla Gold Property.

Approximately 45 km to the southeast, Cominco Limited staked the Beaver claims in 1968 based on results of regional geochemical sampling done the year before. Later that year, L. Elliott staked the nearby Now claims and optioned them to Cominco, which completed mapping and soil sampling in 1968 and 1969 (Johnson and Richardson, 1969a and 1969b).

In 1977, Prism Joint Venture (Asamera Oil Corp, Chieftain Development Company Limited, Prism Resources Ltd, Siebens Oil & Gas Limited and E & B Exploration Limited) restaked Cominco's claims as part of a larger block that extended for about 20 km along the north side of the Beaver River. In 1979, Dome Petroleum Ltd replaced Siebens in the joint venture.

Prism conducted most of its activities around the original Beaver claims. Soil sampling and mapping were performed in 1977 (Montgomery and Dewonck, 1978) and additional soil sampling and trenching were done in 1978 (Prism Joint Venture, 1979a). In 1979 Prism completed six diamond drill holes totalling 610 m (Dewonck, 1980). This work focused primarily on sedimentary exhalite and Mississippi Valley type lead-zinc mineralization, but resulted in the discovery of a narrow gold-rich vein (the Now Showing).

NDU Resources Ltd. staked claims over the Now Showing in 1987 to cover the lead, zinc and silver soil geochemical anomalies identified by Cominco and Prism. The following year, NDU conducted a geochemical sampling program which focused on the gold vein mineralization at the Now Showing (Cathro, 1989).

In 1977, 6.25 km further to the northwest, Prism conducted mapping, soil sampling and electromagnetic surveys. Numerous samples from that program returned high zinc-in-soil values ranging from 2100 ppm to 12.2%. One sample collected from a large transported gossan (Ocelot Showing) yielded 3.8 g/t silver, 800 ppm lead and 12.2% zinc (Montgomery and Cavey, 1978), suggesting the metals were leached and remobilized in acidic groundwater before being reprecipitated when the fluids were neutralized. These promising results were not followed up. In 1977, Prism also performed minor soil sampling near a strong gossan developed 19 km to the east (Kathy Showing) (Prism Joint Venture, 1979b).

In 1979 and 1980, Prism explored in two areas approximately 16 km southeast of the current Ocelot Showing and conducted prospecting, soil geochemical sampling and one diamond drill hole. This work led to the discovery of scheelite mineralization at the Blue Lite and Flat Top Showings. Well mineralized tremolite skarn specimens from the Flat Top Showing assayed up to 8.4%  $WO_3$ , but most material graded below 0.04% (Churchill, 1980). No further work was done at either showing.

ATAC's interest in the area was prompted by an isolated, high gold value (150 ppb) reported by a regional-scale stream sediment geochemical survey, conducted by the Geological Survey of Canada (Hornbrook, et al 1990). This value is in the 99<sup>th</sup> percentile of gold results from the survey and is supported by a 99<sup>th</sup> percentile tungsten value (25 ppm). The sample was collected near the Rackla Pluton, east of the Tiger Zone.

In summer 2006, ATAC staked 64 claims to cover the anomalous drainage. During the staking, a number of rock and soil samples were collected, many of which returned anomalous values for tungsten and a few were notably enriched in gold, lead, zinc, silver and copper. cursory prospecting relocated scheelite-bearing tremolite skarn (Flat Top Showing) and discovered tungsten in diopside-actinolite skarn and highly fractionated intrusive rocks, about 1500 m to the south.

In 2007 ATAC completed geological mapping, prospecting, grid soil sampling and helicopter-borne variable time-domain electromagnetic (VTEM) surveys (Eaton and Pantou, 2008). This work partially delineated a large hydrothermal system centered on the largely buried Rackla Pluton. Following that program, ATAC staked an additional 32 claims, mostly to improve coverage around a very strong gold-in-soil anomaly outlined on the western edge of the grid.

ATAC and Yankee Hat Minerals Limited signed an option agreement in spring 2008 concerning 40 claims that covered the Rackla Pluton and the tungsten-bearing skarns. During the summer of 2008 Yankee Hat conducted prospecting and a total of 437.38 m of diamond drilling in three holes (Dumala, 2008). Several narrow skarn bands with weak to moderate tungsten mineralization were identified within the carbonate host rocks. The option agreement was terminated in late 2008 following poor results and the claims were returned to ATAC.

Also in the summer of 2008, ATAC conducted geological mapping, prospecting, soil and stream sediment geochemical sampling, 3,423.21 m of diamond drilling in 18 holes and property-wide helicopter-borne magnetic variable time-domain electromagnetic (VTEM) surveys on the claims not covered by the Yankee Hat option agreement. Drilling identified three stacked, gold-bearing horizons in what is now known as the Tiger Deposit (Dumala, 2009). The central horizon (Discovery Horizon) contains gold in iron carbonate replacement and hosts the most abundant mineralization. In 2008 grid soil sampling and stream sediment sampling was extended to the northwest. In response to positive results, ATAC added 1,340 claims to cover the favourable stratigraphy along the anomalous trend.

In 2009, ATAC continued to delineate the Tiger Deposit with an additional 58 diamond drill holes totalling 9,578.30 m (Dumala and Lane, 2010). Drilling identified a significant oxide component to the northwest, within the Tiger Deposit. Prospecting in 2009 also identified several new showings containing mineralization similar to that found at the Tiger Deposit. These include the Cub, Lion, Jaguar, Panther, Cougar, Puma, Cheetah and Lynx Showings.

In 2010, ATAC continued definition drilling at the Tiger Deposit resulting in the completion of a NI 43-101 compliant resource estimate of the sulphide and oxide horizons (Stroschein, et al 2011). Results of the resource estimate using a 0.3 g/t gold cut off yield an indicated resource estimate of 508,000 ounces of gold (7,150,000 tonnes at an average grade of 2.21 g/t) and an

inferred resource estimate of 290,200 ounces of gold (8,280,000 tonnes at an average grade of 1.09 g/t) for the oxide and sulphide horizons combined.

Prospecting at the geochemically anomalous Ocelot Showing in 2010 resulted in the discovery of high grade Ag-Pb-Zn massive sulphide mineralization. Grab samples from this area included 2100 g/t Ag, 55.33% Pb and 62 g/t In (Dumala, 2011).

In 2011 ATAC drilled 19 holes totaling 3784.75 m at the Ocelot target beneath a known but previously undrilled surface gossan. The best grade intervals yielded 145.43 g/t silver, 3.36% lead and 11.65% zinc across 41.72 m and 188.07 g/t silver, 8.69% lead and 6.06% zinc over 37.91 m in semi-massive to massive sulphide mineralization. Drilling by the end of the 2011 season identified mineralization over a 230 m strike length and to a depth of 150 m. (Dumala, 2012a). During the field season, the 900 m long Rau gravel airstrip was constructed at the confluence of the Beaver and Rackla rivers.

Also in 2011, ATAC drilled 10 holes totaling 2,113.2 m of diamond drilling at the Now Showing (3 holes) Puma Showing (2 holes) Cheetah Showing (3 holes) and Kathy Showing (2 holes). Weakly anomalous gold, silver, lead and zinc values were intersected in one Now drill hole. Puma and Cheeta drilling intersected weak gold mineralization; Kathy drilling intersected no significant results (Dumala, 2012b).

### **NADALEEN TREND**

The earliest recorded exploration on the eastern side of the Rackla Gold Property occurred when McIntyre Mines staked the Birkeland claims, then called Tom and Mom in 1974 approximately 200 km east of Mayo. Mapping, geochemical soil sampling, trenching and 10 BQ and 22 Winkie holes were carried out in 1975. The best results were 4.4% zinc, 0.5% lead and 2.7 g/t silver over 1.8 m in DDH75-31 (Shearer, 1975). In 1978 McIntyre Mines entered a joint venture with Canadian Superior Exploration, Ltd. No further work was reported and the Birkeland claims expired.

In 1976 the Sian claims were staked approximately 37 km southwest of the Birkeland claims by McIntyre Mines following prospecting of geological targets. Mapping, geochemical soil sampling and EM, mag and SP geophysical surveys were carried out in 1977. Gold was tested for in 4 grab samples; however, results did not exceed the detection limit for gold (Birkeland, 1978). After entering a joint venture with Canadian Superior Exploration, detailed mapping, trenching and sampling was completed in 1979. Results of this work found low grade lead and zinc throughout a folded dolomite unit. One diamond drill hole was completed in 1980 but did not intersect any mineralization. No further work was recommended and in 1982 the Sian property passed to Serem Ltd, after which the claims were voided and no further exploration was reported.

The Star claims, located approximately 12 km to the west of the Sian claims, were staked by private prospectors and optioned to Prism Resources Ltd in 1976. Mapping and soil geochemical testing completed by Prism in 1977 had disappointing results and all claims were dropped. The Lee and Nod claims were staked to the south of the Leah claims in December of

1976 and were optioned to Tay River Mines. No work is on record for these claims and they were allowed to lapse.

McIntyre Mines staked the Jam property in 1977, 4.2 km north of its Sian property. Soil and silt sampling in conjunction with mapping later that year found a favorable dolomite breccia host rock with associated zinc and lead sulphide mineralization. No further work was reported and the Jam claims lapsed.

In 1976, the Black, Ida, Red and Eira claims, located approximately 8 km east of the Sian claims, were staked by the Ortell Syndicate (Precambrian Shield Resources Ltd, Giant Yellowknife Mines Ltd, Nemco Resources Ltd and Highwood Resources Ltd). In 1977, the Black and Ida claims were optioned by a joint venture between DeJour Mines Limited and Nova-Co Exploration Limited (Thompson, 1977). Mapping and geochemical sampling on the Ida claims later that year returned moderately anomalous zinc values, with erratic lead and silver support.

Also in 1977, prospecting and stream sediment sampling carried out on the Eira property by the Ortell Syndicate returned anomalous silver and zinc results, up to 2.4 ppm and 680 ppm respectively (Curry, 1977). This led to more detailed grid soil sampling and geological mapping. This work returned a number of moderate, non-coincident silver, zinc and lead anomalies.

In 2001, the Geological Survey of Canada completed a regional stream sediment sampling program (Heon, 2003), which included coverage of the current Sten claims, located 19 km west of the Birkeland claims, in an area now referred to as the Nadaleen Trend. Creeks draining this area returned weak gold and strong arsenic anomalies.

ATAC's initial interest in the area was to follow up a strong arsenic silt anomaly collected by the Geological Survey of Canada in 2001. Over a three day period in 2009, 89 stream sediment, 1 rock and 9 soil samples were collected on the Sten claims. These samples returned a string of moderately to very strongly anomalous results ranging from 12 to 1775 ppb gold and 123 to 155,000 ppm arsenic (Eaton, 2010). As a result, additional claims were staked by ATAC.

Follow-up prospecting of the anomalous creek in the summer of 2010 led to the discovery of in situ gold mineralization occurring within a folded, deformed carbonate horizon now referred to as the Osiris Zone. A follow up soil grid consisting of 50 m line spacing and 50 m sample spacing was conducted over this carbonate horizon. Results from the soil grid yielded four distinct gold anomalies known as Osiris, Conrad, Isis and Isis East.

Drilling in the fall of 2010 defined three gold bearing zones (Lane, 2011). The Osiris Zone returned the most significant gold grades yielding 65.20 m of 4.65 g/t Au in OS-10-01. Five more holes were drilled within the Osiris Zone with all but one (OS-10-05) intersecting significant gold mineralization. The Conrad Zone, one kilometer to the east was drilled to target a gold bearing trench. Assay results from this hole included 8.03 g/t Au over 21.13 m in OS-10-08. A second hole drilled in the Conrad Zone intersected arsenic sulphide mineralization in a siliciclastic package (OS-10-09) with an average gold grade of 1.61 g/t over 39.76 m. Drilling in the Isis Zone one kilometer west of the Osiris Zone (OS-10-07) returned comparatively lower, albeit anomalous, gold grades averaging 0.92 g/t over 17.00 m (Lane, 2011).

In 2011 ATAC carried out an extensive drill program at the Osiris, Isis East and Conrad Zones as well as testing pathfinder geochemical anomalies at the Isis East, Amon, Dale, Ptah and Pyramid Zones, for a total of 26,675 m of diamond drilling in 89 holes. Collectively these are known as the Nadaleen trend. (Lane and Carne, 2012).

Of the 37 holes that tested the limestone horizon at the Osiris Zone, 23 intersected significant gold mineralization with the best intersections in OS-11-088 (11.15 g/t gold over 6.27 m) and OS-11-084 (4.41 g/t gold over 44.20 m). Mineralization with accompanying decalcification appears to roughly follow the contact between silty limestone and an overlying dolostone unit, in close proximity to steeply dipping structures.

Six holes tested carbonates of the Isis Limestone Horizon, likely a structural repeat of the Osiris carbonate horizon. One hole at the Isis Zone returned low gold values, but holes drilled following up on a 450 m long gold in soil geochemical anomaly south of Osiris defined a new zone of mineralization, named the Isis East Zone. OS-11-073 returned both the longest (3.13 g/t Au over 51.82 m) and highest grading (12.51 g/t Au over 10.76 m) intervals.

Twenty nine holes drilled at the Conrad Zone in 2011 suggested a reasonably continuous, 450 m long, structurally controlled zone of mineralization possibly related to the east-west trending, north dipping Nadaleen Fault which juxtaposes an extensive mudstone package against limestone and siliciclastic rocks that host the Conrad mineralization. OS-11-010 had the longest (3.15 g/t Au over 114.9 m) while OS-11-014 had the highest grade (20.55 g/t Au over 6.09 m) intervals.

Eight holes were drilled in the Amon Zone, an area drained by very arsenic rich springs. Though realgar and orpiment were abundant, the highest gold grade encountered was 0.83 g/t Au over 1.52 m in OS-11-034. One hole drilled in the Ptah Zone north of Conrad to test the potential of finding mineralization under the Nadaleen Fault did not reach favorable stratigraphy.

A soil geochemical pathfinder anomaly at the Dale Zone was tested by two holes which intersected trace realgar, but no significant gold.

Five holes tested the Pyramid Zone, another soil geochemical pathfinder anomaly with massive orpiment boulders and realgar cobbles. Poor drilling conditions meant none of the holes reached their target depth. PY-11-004 intersected significant realgar and orpiment mineralization.

Mapping during the 2011 season in the Nadaleen trend continued to refine stratigraphic and structural interpretations and correlations.

### **PROPERTY WIDE**

In 2011 ATAC Resources carried out an extensive geochemical sampling program across the Rackla Gold Property with the goal of locating new low temperature gold occurrences, similar to those found at the Nadaleen Trend. It resulted in 1,172 silt samples and 13,144 contour, ridge and spur and grid soil samples as well as 180 rock samples (McDivitt, 2012). Grid sampling focused on the Pyramid and Dale targets in the Nadaleen Trend and at the Ocelot, Blue Lite and

Cheshire targets in the Rau Trend. Results defined multiple areas of interest on both the west and east ends of the property.

Remote sensing data was collected over the course of the season to provide property wide, orthorectified satellite imagery and high resolution contours with low level aerial photos over target areas.

A combined airborne magnetic and radiometric geophysical survey flown over the Pyramid target defined broad, curvilinear lineaments trending east-southeast reflecting the general trend of lithologies and structures in the area.

### **GEOMORPHOLOGY AND CLIMATE**

The Rackla Gold Property stretches 185 km from east to west in the Selwyn and Werneke Mountains and is drained by creeks that flow into the Nadaleen, Rackla, Stewart and Beaver Rivers, all part of the Yukon River watershed. Local topography varies from low forested valleys to alpine areas and features east-west to northwest trending major valleys and ridges, north-south trending rocky spurs and valleys that flank a main east-west trending ridge system. Elevations range from about 600 to 2000 m above sea level. Outcrop is most abundant near ridge crests and in actively eroding creek beds. Most hillsides are talus covered at slope breaks and are blanketed by glacial till at lower elevations. The region was glaciated in the Late Pleistocene, 22,000 years ago (Duk-Rodkin, 1999) with ice flow from east to west.

Treeline in the vicinity of the project is at about 1500 m. Slopes above that elevation, especially steep north facing slopes are unvegetated. Moderately steep, south facing slopes are well drained and are often lightly forested with poplar. The density and size of vegetation gradually increases on lower slopes, and the valley floors are well treed with mature black spruce. Understory vegetation typically consists of low shrubs and moss.

The climate in the Rackla Gold Project area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from early June through late September.

### **REGIONAL GEOLOGY**

The Geological Survey of Canada performed geological mapping in the vicinity of the Rackla Gold Property at 1:250,000 scale in the early 1970s (Blusson, 1974). In 1999, the Geological Survey of Canada (Gordey and Makepeace, 1999) completed a compilation of Yukon-wide geology and updated the lithological units named in the Rackla area. The Yukon Geological Survey completed mapping of 106C/03 and 106C/04 1:50,000 map sheets during 2010 and 2011 (Colpron, 2012; Chakungal and Bennett, 2010) and completed the Rackla belt compilation, map sheets 106D1, 106C1-4 in 2012 (Colpron et. al., 2013).

The Rackla Gold Property straddles the boundary between deep water dominantly clastic rocks of the Selwyn Basin to the south and shallower water shelf strata of the Mackenzie platform to

the north. The Dawson Fault, which juxtaposes rocks of Selwyn Basin against rocks of Mackenzie Platform, is a crustal break that may date back to late Neoproterozoic rifting and was reactivated as a north directed thrust in the Cretaceous (Macdonald et. al, 2010). The tectonic setting of the Rackla Gold Property is shown in Figure 13, while regional relationships and the importance of the Dawson Fault system are presented in Figure 14.

Yukon Geological Survey mapping during the 2012 field season refined the Proterozoic to Paleozoic sedimentary stratigraphy underlying the Rackla Gold Property (Figure 15). A description of this new mapping is described below.

Proterozoic to Lower Cambrian rocks are divided as follows:

- Proterozoic units north of the Kathleen Lakes Fault are correlative with Rapitan Group.
- Neoproterozoic to Cambrian units in the hanging wall (south) of the Dawson Thrust include Hyland Group (Yusezyu , Algae and Narchilla Formations) and the Gull Lake Formation.
- Neoproterozoic to Cambrian units between the Kathleen Lakes and Dawson Thrust faults have been given local names: the Nadaleen and Stenbraten Assemblages, which may be correlative with Windermere Supergroup rocks. Additionally, Ediacaran aged Hyland Group rocks including the Algae Formation, Narcilla Formation and unnamed Cambrian siltstones and limestones are also mapped on the north side of the Dawson Thrust.

Paleozoic Rocks are divided as follows:

- Off-shelf Rocks - Ordovician to Lower Permian rocks including Road River Group black shale, Ordovician to Silurian limestone, Middle Devonian limestone, Middle Devonian to Lower Mississippian dominantly shale of the Earn Group, and Mississippian to Lower Permian dominantly clastic rocks.
- Platform Rocks – Upper Cambrian to Devonian (?) limestone and dolostone.

To date, mineralization along the Rackla Gold Property has dominantly been discovered between the Kathleen Lakes and Dawson Thrust Faults.

### **PROPERTY GEOLOGY – NADALEEN TREND**

Property scale geologic mapping continued in the Nadaleen area during the 2012 field season with attention focused on areas of interest identified during 2011 geochemical surveys and prospecting. The distribution of lithologies and regional scale structures determined during this mapping program are shown on Figure 16.

Lithologies have been divided into three groupings: Paleozoic Rocks, Neoproterozoic - Cambrian rocks and Neoproterozoic Rocks. Descriptions of each of these are provided below.



Paleozoic Rocks – Thought to be equivalent to Earn Group, they are exposed from the Pyramid Zone to just south and west of Nadaleen Camp. This group has been subdivided into four lithologically distinct map units:

- **Pz4:** Thinly bedded, dull grey-brown weathering siltstone interbedded with shale and minor fossiliferous limestone.
- **Pz3:** Fossiliferous (locally described as 'fossil hash'), medium- to coarse-grained, calcareous and moderately calcareous wackestone interbedded with shale, calcareous siltstone and minor chert. Fossil fragments include shelly bits, crinoids and bryozoa.
- **Pz2:** Well bedded, carbonaceous and argillaceous chert interbedded with carbonaceous shale, siltstone, and lesser amounts of chert pebble conglomerate and minor sandstone that may locally be calcareous. Grades into fossiliferous, micritic limestone.
- **Pz1:** Pale grey weathering, micritic limestone interbedded with thick debrite packages and carbonaceous chert. Includes fossils of favocites, halycites(?) rugose coral, crinoids, brachiopods, bryozoa and possibly sponges. In the Dale target area this unit is silicified and brecciated. Limestone outcroppings at Pyramid, Dale South and Sten peaks are fossiliferous, medium- to coarse-grained wackestone with fossil fragments including shelly bits crinoids and bryozoa.

Neoproterozoic - Cambrian Rocks may in part be equivalent to the Hyland Group and Windermere Supergroup. This stratigraphy is exposed across the entire length of the map area. It is divided into ten lithologic map units as follows:

- **phy:** Maroon and turquoise-green phyllites and siltstones interbedded with rosy pink limestone (at the Sian Target), and/or invariably calcareous, green weathering sandstones.
- **dol:** Zebra textured dolostone locally with chert lenses overlies very dark grey/black, crystalline limestone. This may be the same dolostone exposed at the Isis Zone.
- **xlst:** Very dark grey/black, coarsely crystalline limestone. Often associated with beds of polymict floatstone containing clasts of orange weathering dolostone, limestone, rounded quartz pebbles and minor shale, particularly near the base of the unit. 'Beef' textured calcite layers are common, particularly in outcrops near the Nadaleen camp. This unit is logged as O-LST2 in drill core at the Osiris Isis and Isis East Zones. Graded calcite cemented pebble conglomerate to sand layers are very distinctive in the Osiris area. Larger quartz clasts can be quite angular.
- **slt:** Green-grey siltstone and shale interbedded with fine- to medium-grained sandstone, lesser calcareous sandstone, minor limestone and limestone debrites.

- **cgl, sst:** Well sorted, coarse grained, quartz granular sandstone to pebble conglomerate.
- **Odm:** Limestone pebble to boulder conglomerate, predominantly matrix supported debrites. Clasts vary from centimetre to metre scale and comprise limestones that are markedly similar to the limestone described below. Matrix composition is variable comprising non to weakly calcareous green siltstone and shale (south of Osiris and Nadaleen camp where overlain by non-calcareous shale siltstone and sandstone) and/or crystalline limestone (east and west of Osiris where overlain by crystalline limestone).
- **Olst: Osiris Limestone:** Well bedded, tan and grey limestone preserving sedimentary structures (ie. climbing ripples, cross bedding). Monolithic, intraclast rudstone layers, averaging 0.5-2 metres thick, are common throughout the unit, particularly in basal sections. They consist of randomly oriented to imbricated, tabular to equant clasts in a carbonate mudstone matrix. Clast composition is almost exclusively the same as the enclosing carbonate mudstones. Where in contact with underlying maroon siltstones, the limestone is characteristically orangey-tan weathering vs. light grey weathering where underlying siltstones are green. Higher up in the section, the limestone includes interbedded calcareous and non-calcareous lithic and arkosic sandstones. (Turner, 2012 suggests that this unit and the underlying maroon siltstone may be correlative with Mesoproterozoic, <1.3 Ga; >1.0 Ga, Pinguicula Units B and A respectively.) In the Osiris area this unit is further subdivided into a lower limestone unit as described above and an upper tan weathering, massive to crackle brecciated dolostone. Total thickness of this limestone/dolostone package at Osiris/Isis East averages 150 m.
- **Osst:** Maroon and green siltstone, finely laminated. This unit is generally identified by its proximity to the overlying Osiris limestone. It is referred to as the Osiris maroon siltstone in Osiris/Conrad area.
- **Clst2: Conrad calciclastics:** Dark, crystalline lime mudstone, calc-arenite, and lensoidal pebble to boulder conglomerates, interpreted as debris flows with lesser interbedded siltstone and grey to black shale. Clast composition of the conglomerate is dominated by limestone and lesser dolostone.
- **Cslc: Conrad siliciclastics:** grey-green pyritic siltstone and mudstone, poorly sorted matrix-supported quartz pebble conglomerate with lesser grey, well sorted, weakly calcareous sandstone. The conglomerate, informally referred to as ‘starry night’, consists of rounded quartz pebbles floating in a mix of sand and silt with occasional larger clasts that appear to be rip up clasts of matrix material.
- **Clst1:** Conrad limestone: Light grey weathering, silty laminated clastic limestone with cone in cone and beef calcite, and wispy fine quartz sand layers.

Neoproterozoic rocks, possibly equivalent to Windermere Supergroup as suggested by the Yukon Geological Survey. These rocks are exposed to the north and east of Nadaleen Camp and may also be exposed in the hills immediately east of the Dale target area. In the Osiris area they are locally called Nonad (North of Nadaleen fault). This package is divided into five lithologic map units as follows:

- **N5:** Finely laminated, grey-green limestone interbedded with ‘beef’ textured calcite and minor siltstone, particularly proximal to the contact with limestone.
- **N4:** Grey weathering shale and minor siltstone.
- **N3:** Grey weathering, fine grained sandstone interbedded with siltstone. This may be part of the coarse-grained sandstone/conglomerate unit described next.
- **N2:** Orange-brown weathering, well bedded, fine-to coarse-grained sandstone interbedded with grey/blue quartz granular sandstone and /or quartz pebble conglomerate. Quartz clasts are most commonly rounded.
- **N1:** Chlorite green siltstone and shale interbedded with orange weathering, coarse-granular quartz and chert pebble sandstone and conglomerate. This unit is polydeformed and has a well-developed cleavage.

Locally, stratigraphic relationships between the mapped units in the central Nadaleen drill area have been determined. This stratigraphic column is shown in Figure 17, while a revised geologic map of this area is represented in Figure 18.

It is believed that the Rackla Gold Property area underwent extensive deformation as part of a Mesozoic to early Cretaceous fold and thrust event, followed by a transition into a probable strike slip regime. Two major regional structures transect the property: the Dawson Thrust and the Kathleen Lakes Fault. The Dawson Thrust, historically described as defining the northern edge of Selwyn basin, places Precambrian Hyland Group rocks over Paleozoic shelf carbonates as part of Jurassic to Cretaceous compressional tectonics. This is likely a much older structure, possibly dating back to Precambrian rifting that was reactivated during compression.

The Kathleen Lakes Fault marks the contact between Paleozoic platform rocks to the north and Paleozoic shelf to basin rocks to the south in the western part of the property. Both the Dawson Thrust Fault and Kathleen Lakes Faults are more difficult to trace to the east as they move into broad valleys covered by a thick layer of glacial till. The Nadaleen Fault near the eastern end of the property appears to be a splay off the Kathleen Lakes Fault.

The prevalence of debrite and turbidite facies within almost all units, along with the highly variable stratigraphic thicknesses of units provides strong evidence for long lived synsedimentary tectonism.

## SOIL, SILT AND ROCK GEOCHEMISTRY

### GENERAL

The goal of the 2012 geochemical sampling program on the Rackla Gold Property was to locate new precious metal occurrences and define scout drill targets. Samplers collected 1,507 rock, 659 silt and 19,332 contour, ridge and spur and grid soil samples. Infill silt sampling completed coverage of drainages that had not previously been sampled. Soil sampling was mainly focused along Nadaleen Trend between the Pyramid and Osiris targets and at the Pharaoh target in addition to an area south of the Tiger Deposit in the Rau Trend. Prospecting and pit sampling followed up on some of the soil geochemical anomalies generated.

The locations of soil silt and rock samples, along with the sample identifier are located in Figures 19-63. Sampling and analytical procedures are explained in Appendix III; rock sample descriptions are provided in Appendix IV; and certificates of analysis occur in Appendix V.

Background and anomalous values for gold and arsenic were calculated for all soil and silt samples collected across the Rackla Gold Belt. Background, average, weak, moderate, moderately strong and strongly anomalous thresholds approximately correspond to the 50<sup>th</sup>, 90<sup>th</sup>, 95<sup>th</sup>, 98<sup>th</sup> and 99<sup>th</sup> percentiles from these samples. The geochemical characteristics of the soil and silt samples are summarized in the following tables.

**Table III – Thresholds Values for Soil Samples**

Thresholds	Au (g/t)	As (ppm)	Sb (ppm)	Tl (ppm)	Hg (ppm)
Background	0.003	21.2	0.9	0.2	0.1
Weak	0.009	104.0	4.0	0.6	0.7
Moderate	0.013	204.0	6.7	0.9	1.3
Moderately Strong	0.020	447.0	12.9	1.7	2.8
Strong	0.031	729.1	20.7	2.7	5.0
Peak Value	2.38	>10000	1560.0	125.5	270

**Table IV – Threshold Values for Silt Samples**

Thresholds	Au (g/t)	As (ppm)	Sb (ppm)	Tl (ppm)	Hg (ppm)
Background	0.003	15.0	0.7	0.1	0.1
Weak	0.008	46.7	0.9	0.3	0.57
Moderate	0.013	107.1	1.1	0.6	1.0
Moderately Strong	0.020	235.6	4.1	1.0	1.8
Strong	0.034	537.9	7.0	1.9	2.7
Peak Value	0.545	>10000	179.0	19.9	22.8

## **RESULTS**

The 2012 sampling program generated new areas of gold potential in the Rau Trend as well as a widespread spatial distribution of anomalous pathfinder elements in the Nadaleen Trend in an area between Pyramid and Osiris. Figures 64-67 present thematic maps illustrating the gold and arsenic soil values in the Rau and Nadaleen Trends.

Geochemical definition of the Anubis and Pharaoh Zones, as well as the delineation of ten high priority “N series” targets in the area between Pyramid and Osiris are the result of wide spaced geochemical transect sampling that occurred late in the 2012 field season. The location of these newly defined zones are shown in Figure 66 and tabulated below in Table V.

**Table V – Nadaleen Trend Soil Anomalies and Mineralized Showings**

<b>Anomaly</b>	<b>Approximate Size (m)</b>	<b>Location Relative to Osiris (km)</b>	<b>Type</b>	<b>Elements Enriched in Soil</b>
Anubis	6000 x 1200	10.1 W	Linear geochemical soil anomaly and drill confirmed gold showing	Au, As, Hg, Sb, Tl
Pharaoh	2700 x 1000	12.3 NW	Arcuate soil anomaly and gold bearing quartz veins	Au, As, Hg, Sb
GT	400 x 600	6.8 WNW	Soil anomaly and realgar showing	As, Hg, Tl
N1	1500 x 50	9.9 W	Intermittent gold in soil anomaly	Au
N2	3000 x 500	13.6 W	Linear soil anomaly	As, Tl
N3	2400 x 1700	16.6 WSW	Spotty soil anomaly	As, Hg, Sb, Tl
N4	600 x 700	20.2 WSW	Soil anomaly	As, Hg, Tl
N5	2000 x 2000	17.7 W	Soil anomaly	Sb, Tl
N6	1500 x 1000	16.2 WNW	Soil anomaly	As
N7	900 x 600	13.4 NW	Soil anomaly	Au, As, Tl
N8	5800 x 700	10.7 WNW	Linear soil anomaly	As, Sb, Tl
N9	1300 x 500	8.4 SW	Soil anomaly	As, Hg
N10	2300 x 800	10.1 NE	Arcuate soil anomaly Antimony oxide showing	Au, As, Sb, Hg

A summary of advanced stage and high priority exploration targets is summarized in Table VI. These targets and zones are representative of the culmination of exploration done in the Rackla Gold belt from 2008 to 2012. Rau Trend showings are displayed on Figure 64.

**Table VI – Summary of Targets and Zones Defined to Date along the Rackla Gold Belt**

<b>Trend</b>	<b>Target(s)/ Zones</b>	<b>Comments</b>
<b>Nadaleen</b>	Osiris Zone	2010 Carlin-type discovery hole returned 65.20 m of 4.65 g/t gold in hole OS-10-001. Zone remains open down dip and to the north.
	Conrad Zone	Most advanced Carlin-type gold zone with 800 m strike length, open in all directions, 99 diamond drill holes. Highlight 2012 hole intersected 42.93 m of 18.44 g/t gold in hole OS-12-114.
	Isis East Zone	Very encouraging near surface gold zone directly south of Osiris with limited drilling. Highlight 2012 drill hole intersected 27.43 m of 6.28 g/t gold in OS-12-120. Major focus for 2013.
	Sunrise Zone	2012 discovery directly east of Osiris. Hole OS-12-173 intersected 14.86 m of 10.54 g/t gold. Sunrise Zone remains open in all directions and will be a major focus for 2013.
	Anubis Zone	2012 discovery located 10 km west of Osiris. Hole AN-12-001 intersected 8.51 m of 19.85 g/t gold. Anubis Zone remains open in all directions and will be a major focus for 2013.
	Pharaoh	2012 surface discoveries of Carlin-type and high-grade quartz vein material with visible gold.
	N(1-10)	Ten Tier 1 pathfinder±gold anomalies surrounding the Anubis and Pharaoh areas. Primary focus for 2013 follow-up.
	Isis	Intense gold in soil anomaly 600 m west of Osiris. Additional mapping and drilling to be completed.
	Pyramid	4 by 0.6 km arsenic anomaly and orpiment/realgar boulder train.
	Amon	500 by 250 m area of arsenic mineralization 1.8 km northwest of Osiris.
	GT	Decarbonated and clay altered showing with abundant realgar and barite located 6.9 km west of Osiris.
<b>Rau</b>	Tiger Deposit	NI 43-101 resource of oxide and sulphide at a cut-off grade of 0.30 g/t gold estimated at: Indicated: 508,000 oz gold (7,150,000 tonnes at 2.21 g/t Au) Inferred: 290,000 oz gold (8,280,000 tonnes at 1.09 g/t Au)
	Ocelot Zone	Silver-lead-zinc discovery made in 2010. Hole OC-11-010 intersected 63.44 m of 73.81 g/t silver, 2.44 % lead and 8.18 % zinc. 19 holes have defined a zone with a strike length of 230 m. Area has received very limited exploration.
	Bengal	Gold showing discovered in 2012 located 3.2 km south of the Tiger Deposit and within a newly defined 5.6 km intermittent gold-in-soil contour anomaly. Additional prospecting and geochemistry planned for 2013.
	Cheetah, Cougar, Jaguar, Puma and Panther	All five targets are dispersed 5 to 8 km to the northwest from the Tiger Deposit along a regional structure. They exhibit many of the same surface characteristics as the Tiger Deposit but have received limited drilling and exploration.

	Kathy	Gold skarn target 4.5 km south east of the Tiger Deposit. Veinlet hosted mineralization grades up to 13.7 g/t gold.
	Flat Top	Gold skarn target 2.5 km northeast of the Tiger Deposit defined by a 700 by 250 m gold-bismuth soil anomaly.
	Blue Lite	Gold skarn target occurring 5.7 km northeast of the Tiger Deposit defined by a tight cluster of anomalous gold and bismuth in soil.
	Now	Gold and antimony anomaly located 10 km west of the Tiger Deposit. The anomaly is a 5 by 1 km northwesterly linear trend that occurs in a geologic environment similar to the Bengal Showing.
	Now West	2012 gold in silt anomaly located 17.5 km west of the Tiger Deposit.

## 2012 Nadaleen Trend Discoveries

### *Anubis*

The Anubis Zone was discovered in August of 2012 as a result of detailed 50 m x 50 m grid soil sampling. Follow up prospecting found in-situ jasperoid with four grab samples collected along the exposure returning 139 g/t, 125 g/t, 122 g/t and 84.2 g/t Au. The Anubis discovery is hosted in a carbonaceous argillite package bounded to the northeast and the southwest by northwest trending regional scale structures. Hand pits dug 600 m to the southwest of the high grade jasperoid material along the southern-most bounding structure resulted in fault rock yielding values ranging from 1.01 g/t to 5.59 g/t Au. While kinematics on the structures are not fully constrained, their latest motion may have been contractional and oblique slip.

### *GT*

The GT target is an arsenic in soil anomaly as well as outcrop with alteration characteristics and gangue mineralization associated with a Carlin type system. Mineralization and alteration are associated with a banded dolomite unit. Alteration includes strong decarbonitization as well as argillic alteration. Gangue minerals include realgar and barite. To date no gold has been found in association with altered material or in soil.

### *Pharaoh*

Exploration in the Pharaoh Zone followed up silt samples containing anomalous mercury and antimony values. Prospecting up the main drainage resulted in the discovery of disseminated realgar in sandstone in the creek and realgar-cinnabar and stibnite bearing fault zones at the head of the main drainage. Assays values for gold in samples containing indicator minerals for Carlin type mineralization are typically below detection. Detailed contour sampling in the Pharaoh area delineated multiple ridge top to ridge proximal gold in soil anomalies. Follow up prospecting of these gold in soil anomalies resulted in the discovery of visible gold in quartz veins. The veins, typically east west trending, are proximal to north trending, east dipping structures that contain indicator minerals for Carlin type gold mineralization. Assays values for gold bearing quartz vein material are highly variable with a range maximum of 79.40 ppm (weighted +/- fractions).

## 2012 Rau Trend Discoveries

The locations of showings discovered or improved upon in 2012 within the Rau Trend are displayed on Figure 64. Much of this work was conducted in late May through early June while snow melted in the higher elevation target areas. A description of each zone follows.

### *Ocelot*

Four days of prospecting on the Ocelot Zone resulted in the discovery of a new showing of high grade Ag-Pb-Zn mineralization occurring along a north westerly trend 866 m northwest of the main Ocelot drill area. This trend may correspond to the extension of the north westerly trending regional strain corridor associated with mineralization at the Tiger Deposit.

The majority of sulphide mineralization at the new Ocelot showing consists of galena (presumably argentiferous) with large coarse grained barite crystals. Maximum metal values from grabs at the showing are 2960 g/t Ag, 60.3 % Pb, 45.8 % Zn and 1.0 % Sn.

### *Kathy*

Exploration work in the vicinity of the Rackla Pluton resulted in the discovery of skarn related gold mineralization at the Kathy showing, a historically known skarn target (Deklerk and Traynor, 2004) associated with a previously believed to be base of slope gossan. The gossanous material is likely hydromorphic in origin and not the surface expression of a massive sulphide body. Soil geochemistry defines a circular zone of enriched gold, arsenic and bismuth in a knoll south of the base of slope gossan. Prospecting in this area resulted in the discovery of narrow, irregular, oxidized veinlets containing gold values up to 13.7 g/t along with values of 5,530 ppm bismuth and 2,790 ppm antimony. A sample of white coloured tremolite skarn containing unidentified disseminated sulphides was also collected yielding assay values of 1.65 ppm Au with elevated arsenic, bismuth and antimony values of 529 ppm, 100 ppm and 3,940 ppm respectively. At the Kathy target exposure is poor. The presence of a base of slope gossan that appears to be sourcing from a north-easterly trending structure with veinlets and disseminated sulphides in marble that contain potentially economic gold grades make it a high priority target.

### *Bengal*

The Bengal showing is a gold occurrence found within an area mapped as the Earn Group shales (Blusson, 1974). Low elevation contour soil sampling returned a highly anomalous soil sample containing 2.36 g/t Au with highly elevated bismuth and arsenic values of 237 ppm and 3690 ppm respectively. Hand trenching proximal to the soil sample exposed rocks with geochemistry and alteration similar to the Tiger Deposit. Gold mineralization up to 3.19 g/t associated with pyrite and elevated arsenic and bismuth values occurs within highly friable, carbonaceous material. Mineralization occurs within moderately dipping stratigraphy consisting of basinal argillites interbedded with fossiliferous carbonate debrite layers containing two hole crinoids. The carbonate layers are preferentially oxidized and altered to coarse grained hydrothermal dolomite. Samples of this oxidized material ran between 0.3 and 0.8 g/t Au. The carbonaceous material assayed consistently around 3 g/t Au and was associated with abundant disseminated



pyrite and sulfate. The Bengal discovery occurs in what was thought to be unfavourable stratigraphy and has therefore opened up exploration potential in the area.

### **AUGER SAMPLING PROGRAM**

Prospecting and trenching at the Pyramid Zone in 2011 returned cobbles of orpiment and realgar in till. Diamond drilling later that year failed to determine the source of this material. Over the following winter a new approach was designed to test the potential for mineralization.

An auger drill was mounted onto a modified hydraulic system on the back of a John Deere 450 bulldozer. Eight inch (20 cm) diameter auger flutes were mounted on 5 foot (1.5 m) extension steels. Augering services were provided by 15317 Yukon Ltd., and started on April 16, 2012 to take advantage of frozen ground conditions and snow cover which prevented excessive disruption to the ground cover. Drill site preparation was minimal as the bulldozer had a hydraulic leveling system, although some leveling was required on more uneven terrain.

The auger sampling program was designed to test a 500 x 250 m As-Hg-Tl-Sb soil anomaly at the Pyramid Zone. Thick till overlies much of the area so traditional soil geochemical sampling methods had returned irregular results. Geomorphic features defined from air photo interpretation suggested that the prevailing ice direction had transported material from east to west. Drill holes were placed approximately every 300 metres along east-west oriented section lines. The exact location of auger drill collars was somewhat defined by the terrain. Collar locations are presented on Figure 68 and in Table VII.

**Table VII. Pyramid Auger Sample Locations**

Hole Number	Easting (m)	Northing (m)	Elevation (m)	Total Depth (m)
PyAg-12-01	609027	7115187	1100	15.19
PyAg-12-02	608937	7115191	1104	2.90
PyAg-12-03	608937	7115189	1104	4.72
PyAg-12-04	609083	7115165	1093	15.56
PyAg-12-05	609136	7115176	1091	2.29
PyAg-12-06	609121	7115175	1091	2.29
PyAg-12-07	609189	7115193	1083	13.21
PyAg-12-08	609238	7115191	1078	3.56
PyAg-12-09	609286	7115196	1081	8.28
PyAg-12-10	609333	7115193	1083	11.28
PyAg-12-11	609396	7115196	1083	8.64
PyAg-12-12	609441	7115198	1079	10.16
PyAg-12-13	609526	7115199	1073	5.18
PyAg-12-14	608959	7115272	1091	3.81
PyAg-12-15	609036	7115280	1088	10.06
PyAg-12-16	609128	7115286	1083	6.86

PyAg-12-17	609190	7115270	1072	6.40
PyAg-12-18	609241	7115283	1074	7.92
PyAg-12-19	609269	7115287	1067	7.62
PyAg-12-20	609337	7115277	1070	7.82
PyAg-12-21	609388	7115282	1073	5.74
PyAg-12-22	609431	7115282	1071	8.53
PyAg-12-23	609142	7115361	1069	7.06
PyAg-12-24	609195	7115354	1056	6.55
PyAg-12-25	609246	7115351	1062	8.08
PyAg-12-26	609283	7115366	1065	8.28
PyAg-12-27	609333	7115363	1061	8.13
PyAg-12-28	609373	7115355	1061	6.10
PyAg-12-29	609431	7115351	1060	6.86
PyAg-12-30	609528	7115356	1058	6.10
PyAg-12-31	609034	7115450	1072	7.62
PyAg-12-32	609133	7115437	1063	7.62
PyAg-12-33	609178	7115441	1060	9.14
PyAg-12-34	609233	7115443	1054	9.14
PyAg-12-35	609284	7115442	1052	7.62
PyAg-12-36	609331	7115442	1058	9.14
PyAg-12-37	609144	7115514	1059	9.14
PyAg-12-38	609188	7115493	1050	8.38
PyAg-12-39	609264	7115519	1046	9.75
PyAg-12-40	609284	7115516	1046	9.14
PyAg-12-41	609334	7115515	1039	3.96
PyAg-12-42	609335	7115523	1040	8.53
PyAg-12-43	609073	7115637	1046	15.24
PyAg-12-44	609135	7115595	1042	11.58
PyAg-12-45	609199	7115582	1045	9.14
PyAg-12-46	609253	7115587	1035	9.14
PyAg-12-47	609297	7115581	1040	8.23
PyAg-12-48	609338	7115575	1042	5.18
PyAg-12-49	609381	7115587	1040	6.10
PyAg-12-50	609079	7115128	1092	10.06
PyAg-12-51	609100	7115073	1105	3.66
PyAg-12-52	609102	7115068	1105	10.06
PyAg-12-53	609024	7115150	1104	19.20
PyAg-12-54	609033	7115086	1111	10.06
PyAg-12-55	609051	7115180	1097	16.15
PyAg-12-56	609101	7115173	1091	1.83

Holes were drilled on average to a depth of 6-10 m. Hole depth was determined by location of bedrock or more commonly the limit of the hydraulic system on the bulldozer. Samples were collected in 2.5 foot intervals and placed into cloth sample bags to dry. A representative sample was kept in camp for future analysis if required. When the samples were dry they were packaged up and sent to ALS for analysis. Analytical and sampling procedures are documented in Appendix III; certificates of analysis can be found in Appendix VII and geologic auger logs with results are listed in Appendix VI.

Results indicated that the source of the anomaly was not from the east, but rather downslope hydromorphic transport from a known alteration zone that had been drilled in 2011. Samples from the area graded up to 13,150 ppm As and 0.16 g/t. Au. The highest gold value of 0.16 g/t was obtained from PyAG-12-01. Although the auger sampling program did not define a new gold anomaly, the equipment and program design exceeded expectations in terms of depth and rate of augering at the drill sites.

## **DIAMOND DRILLING**

### **GENERAL**

Diamond drilling was carried out on the Conrad, Osiris, Isis, Isis East, Sunrise, Pyramid, Anubis and GT Zones between May 18 and September 30 by Superior Diamond Drilling Ltd. of Peachland, BC. The work was completed using HQ and NQ equipment on six heli-portable Discovery II drills. A total of 36,920 m of diamond drilling was completed in 116 holes. This report presents the results of 5,613 m in 20 holes filed for assessment.

Each drill was set up on an approximately 16 foot square platform built of 8" x 8" timbers covered with 2" x 8" planks or on an earth filled log structure of approximately the same size. Each of these pad types were prepared by hand. Drill collars were marked a piece of drill rod cemented into the hole and labeled with the drill hole data. All drill holes were assayed for gold and multi element data for the entirety of their length.

Drill collar locations are plotted on Figures 68-71, and key data for the holes is listed in Table VIII. Geologic cross sections are presented in Figures 72-87. Geological and sample logs are given in Appendix VIII, sampling and analytical procedures are provided in Appendix IX, QA/QC results are summarized in Appendix X, and certificates of analysis are shown in Appendix XI.

**Table VIII: 2012 Diamond Drill Hole Data. Holes in black are those covered in detail in this report.**

Zone	Hole	Northing (mN)	Easting (mE)	Elevation (m)	Azimuth (UTM)	Dip	Depth (m)	Core Size
Conrad	OS -12-092	7112689.4	630309.8	1562.99	177	-84	716.28	HQ-NQ
Conrad	OS -12-093	7112615.4	630595.3	1462.80	180	-64	396.54	HQ-NQ
Conrad	OS -12-094	7112619.5	630544.7	1481.62	176	-72	660.81	HQ-NQ
Conrad	OS -12-098	7112500.7	630403.8	1425.99	180	-52	219.46	HQ
Conrad	OS -12-100	7112614.9	630258.5	1509.71	3	-68	377.62	HQ-NQ
Conrad	OS -12-102	7112580.8	630499.8	1461.03	178	-80	547.42	HQ-NQ
Conrad	OS -12-103	7112479.5	630499.2	1389.19	177	-52	244.75	HQ
Conrad	OS -12-105	7112463.0	630258.7	1454.23	1	-69	406.91	HQ-NQ
Conrad	OS -12-106	7112614.7	630258.5	1509.70	352	-84	328.88	HQ-NQ
Conrad	OS -12-108	7112506.8	630548.0	1386.97	178	-49	282.85	HQ-NQ
Conrad	OS -12-109	7112679.7	630661.8	1466.59	179	-73	738.53	HQ-NQ
Conrad	OS -12-112	7112463.0	630258.7	1454.25	3	-48	416.97	HQ-NQ
Conrad	OS -12-113	7112606.3	630362.5	1509.68	175	-86	141.30	HQ-NQ
Conrad	OS -12-114	7112504.7	630403.7	1429.20	210	-89	129.69	HQ-NQ
Conrad	OS -12-116	7112547.5	630655.6	1394.17	173	-70	400.20	HQ-NQ
Conrad	OS -12-117	7112606.1	630362.5	1509.57	178	-78	737.31	HQ-NQ
Conrad	OS -12-119	7112679.5	630661.7	1465.97	180	-67	600.76	HQ-NQ
Conrad	OS -12-121	7112367.4	630415.5	1374.35	2	-45	101.50	HQ
Conrad	OS -12-123	7112366.5	630415.5	1373.98	4	-63	183.79	HQ
Conrad	OS -12-127	7112427.8	630654.4	1301.10	1	-82	147.22	HQ
Conrad	OS -12-128	7112305.9	630559.4	1361.45	5	-55	253.90	HQ-NQ
Conrad	OS -12-129	7112680.3	630661.8	1466.85	178	-82	711.40	HQ-NQ
Conrad	OS -12-130	7112341.0	630650.5	1316.26	0	-66	374.29	HQ-NQ
Conrad	OS -12-132	7112242.8	630410.9	1394.14	359	-62	244.75	HQ-NQ
Conrad	OS -12-134	7112198.2	630545.0	1422.04	4	-67	538.49	HQ-NQ
Conrad	OS -12-137	7112255.1	630451.2	1402.61	0	-64	517.55	HQ-NQ
Conrad	OS -12-138	7112341.5	630650.6	1316.30	2	-50	128.02	HQ
Conrad	OS -12-141	7112342.7	630598.3	1335.44	1	-52	121.92	HQ
Conrad	OS -12-142	7112416.2	630551.4	1327.47	0	-90	75.90	HQ
Conrad	OS -12-144	7112416.9	630551.3	1327.78	354	-46	103.63	HQ
Conrad	OS -12-145	7112340.9	630598.4	1336.43	356	-78	409.96	HQ-NQ
Conrad	OS -12-146	7112197.5	630545.1	1422.20	354	-84	509.93	HQ-NQ
Conrad	OS -12-148	7112531.0	630360.4	1453.99	179	-74	720.85	HQ-NQ
Conrad	OS -12-149	7112254.6	630450.8	1402.67	359	-75	633.37	HQ-NQ
Conrad	OS -12-152	7112335.5	630701.4	1300.65	4	-80	106.98	HQ
Conrad	OS -12-153	7112336.0	630701.4	1300.59	358	-60	517.25	HQ-NQ

Conrad	OS -12-155	7112235.0	630501.3	1412.06	0	-63	596.80	HQ-NQ
Conrad	OS -12-156	7112519.3	630310.4	1445.93	358	-67	249.93	HQ-NQ
Conrad	OS -12-157	7112254.9	630450.7	1402.69	340	-58	602.89	HQ-NQ
Conrad	OS -12-159	7112335.7	630701.4	1300.66	354	-72	478.54	HQ-NQ
Conrad	OS -12-161	7112519.0	630310.4	1445.95	0	-76	359.05	HQ-NQ
Conrad	OS -12-163	7112440.2	630451.4	1375.35	356	-84	182.88	HQ
Conrad	OS -12-164	7112237.2	630501.1	1410.51	1	-51	377.34	HQ-NQ
Conrad	OS -12-165	7112440.7	630451.4	1375.80	358	-51	222.44	HQ
Conrad	OS -12-168	7112479.0	630703.8	1325.19	182	-64	267.61	HQ-NQ
Conrad	OS -12-169	7112471.3	630600.4	1349.13	179	-61	438.00	HQ-NQ
Conrad	OS -12-170	7112255.1	630450.6	1402.69	343	-64	611.12	HQ-NQ
Conrad	OS -12-174	7112480.4	630703.7	1326.59	183	-80	261.82	HQ-NQ
Conrad	OS -12-175	7112471.0	630649.1	1331.25	177	-67	92.66	HQ
Conrad	OS -12-176	7112234.1	630501.2	1412.63	3	-71	491.64	HQ-NQ
Conrad	OS -12-178	7112484.6	630447.0	1411.06	1	-81	116.74	HQ
Conrad	OS -12-180	7112481.0	630703.7	1326.74	200	-90	375.51	HQ-NQ
Conrad	OS -12-181	7112520.2	630309.8	1446.30	0	-50	26.29	HQ
Conrad	OS -12-182	7112254.4	630450.5	1402.78	344	-73	526.69	HQ-NQ
Conrad	OS -12-183	7112520.0	630310.0	1446.19	1	-50	202.08	HQ-NQ
Conrad	OS -12-184	7112489.1	630752.6	1325.44	195	-88	393.80	HQ-NQ
Conrad	OS -12-185	7112463.1	630257.6	1454.61	354	-79	645.57	HQ-NQ
Conrad	OS -12-186	7112197.8	630543.6	1422.33	355	-64	296.77	HQ-NQ
Conrad	OS -12-187	7112513.7	630778.0	1337.80	159	-86	355.70	HQ-NQ
Conrad	OS -12-188	7112280.6	630253.9	1459.21	356	-59	420.01	HQ-NQ
Conrad	OS -12-190	7112475.1	630200.0	1475.16	359	-50	408.43	HQ-NQ
Conrad	OS -12-191	7112649.1	630208.7	1533.02	192	-86	505.66	HQ-NQ
Conrad	OS -12-192	7112499.7	630153.4	1503.09	4	-51	374.90	HQ-NQ
Conrad	OS -12-193	7112307.3	630852.5	1245.50	358	-50	551.99	HQ-NQ
Conrad	OS -12-194	7112664.6	630149.0	1549.70	173	-87	492.86	HQ-NQ
Conrad	OS -12-195	7112523.5	630102.2	1535.00	358	-69	542.54	HQ-NQ
Conrad	OS -12-196	7112299.1	630900.9	1224.83	357	-51	626.36	HQ-NQ
Conrad	OS -12-197	7112516.6	630779.1	1340.42	11	-84	596.79	HQ-NQ
Osiris	OS -12-124	7112003.8	629421.4	1768.87	8	-55	76.81	HQ
Osiris	OS -12-126	7112006.0	629473.7	1783.92	2	-51	95.26	HQ
Osiris	OS -12-131	7112025.8	629340.2	1765.99	18	-67	52.43	HQ
Osiris	OS -12-133	7111956.1	629424.5	1745.80	2	-74	226.16	HQ
Osiris	OS -12-135	7111955.7	629424.6	1745.75	3	-49	122.53	HQ
Osiris	OS -12-139	7111953.9	629376.1	1730.94	0	-48	122.53	HQ
Osiris	OS -12-140	7111953.4	629376.1	1730.92	359	-70	241.40	HQ
Osiris	OS -12-143	7112670.9	629057.2	1472.75	47	-50	469.09	HQ-NQ
Osiris	OS -12-147	7111951.9	629324.2	1717.33	24	-61	185.01	HQ

Osiris	OS -12-150	7111951.7	629324.2	1717.32	27	-77	335.89	HQ-NQ
Osiris	OS -12-151	7112723.6	628929.7	1485.43	50	-51	267.92	HQ-NQ
Osiris	OS -12-154	7112830.2	628704.9	1505.56	25	-51	429.46	HQ-NQ
Osiris	OS -12-158	7111948.6	629275.2	1703.38	21	-54	352.96	HQ-NQ
Osiris	OS -12-160	7112924.6	628429.2	1499.63	27	-50	322.48	HQ-NQ
Osiris	OS -12-162	7112925.3	628429.2	1499.63	28	-61	404.77	HQ-NQ
Osiris	OS -12-177	7111966.4	629479.7	1773.16	30	-51	157.58	HQ
Isis East	OS -12-091	7111658.9	629054.4	1557.34	40	-69	355.70	HQ
Isis East	OS -12-095	7111686.8	629019.4	1570.40	46	-51	195.68	HQ
Isis East	OS -12-096	7111682.9	629085.8	1568.90	45	-50	122.53	HQ
Isis East	OS -12-097	7111611.6	629228.6	1595.28	4	-49	133.77	HQ
Isis East	OS -12-099	7111625.8	629025.2	1536.87	43	-71	441.05	HQ-NQ
Isis East	OS -12-101	7111576.5	629177.8	1559.53	1	-50	192.94	HQ
Isis East	OS -12-104	7111647.5	628981.5	1541.98	43	-51	309.98	HQ-NQ
Isis East	OS -12-107	7111610.4	629127.5	1539.47	359	-50	196.60	HQ
Isis East	OS -12-111	7111627.2	629274.8	1619.21	0	-50	109.12	HQ
Isis East	OS -12-115	7111557.5	629225.8	1584.35	358	-50	183.79	HQ
Isis East	OS -12-120	7111555.9	629133.8	1537.75	3	-50	263.04	HQ
Isis East	OS -12-122	7111514.5	629178.2	1545.86	0	-50	29.87	HQ
Isis East	OS -12-125	7111558.7	629089.3	1515.03	30	-50	220.37	HQ
Isis East	OS -12-136	7111514.4	629177.9	1545.77	356	-50	229.82	HQ
Isis	OS -12-110	7111979.1	628823.7	1663.18	48	-50	306.93	HQ
Isis	OS -12-118	7111941.0	628853.2	1649.82	42	-49	242.93	HQ-NQ
Isis	OS -12-167	7112024.3	628760.8	1668.24	43	-50	263.04	HQ-NQ
Isis	OS -12-172	7112052.2	628709.8	1656.98	46	-50	249.33	HQ-NQ
Isis	OS -12-179	7112093.6	628691.7	1633.46	42	-66	451.10	HQ-NQ
Isis	OS -12-189	7112017.2	628677.5	1631.87	53	-48	505.53	HQ-NQ
GT	GT -12-001	7113215.9	622542.7	1371.33	29	-49	146.91	HQ
Anubis	AN -12-001	7112967.2	619034.7	1492.17	203	-52	218.54	HQ
Anubis	AN -12-002	7112967.4	619034.7	1492.06	202	-74	195.00	HQ-NQ
Anubis	AN -12-003	7112898.4	619003.6	1478.46	30	-65	154.53	HQ
Anubis	AN -12-004	7113251.0	618533.5	1348.04	210	-50	67.67	HQ
Anubis	AN -12-005	7113251.4	618533.7	1347.94	0	-90	75.29	HQ
Anubis	AN -12-006	7113516.3	619023.5	1426.81	213	-50	300.23	HQ
Pyramid	PY -12-006	7115075.6	609053.2	1101.12	0	-50	66.14	HQ
Pyramid	PY -12-007	7115061.9	609145.6	1093.72	0	-50	230.73	HQ-NQ

## **DRILLING RESULTS**

Observations and results of each drilled zone are described below. Significantly mineralized intervals are listed in Table IX.

**Table IX: Significant Drill Intersections**

Zone	Hole	From (m)	To (m)	Int. (m)	Au Grade (g/t)
CONRAD	OS-12-195	143.06	161.54	18.48	1.19
CONRAD	and	271.27	280.42	9.15	2.00
CONRAD	OS-12-196	129.54	153.92	24.38	1.20
ANUBIS	AN-12-001	50.90	53.00	2.10	2.71
ANUBIS	and	63.09	71.60	8.51	19.85
ANUBIS	AN-12-002	117.96	125.65	7.69	0.88
ANUBIS	AN-12-003	69.19	85.95	16.76	9.08
ANUBIS	and	153.01	154.53	1.52	4.54
ISIS EAST	OS -12-097	31.39	55.78	24.39	5.58
ISIS EAST	including	42.06	54.25	12.19	9.96
ISIS EAST	OS-12-101	79	100.6	21.6	5.11
ISIS EAST	OS-12-104	232.26	241.4	9.14	1.19
ISIS EAST	OS-12-107	51.82	96.01	44.19	1.20

### **Conrad Zone**

Drilling refined the geological interpretation of the Conrad Zone defined in previous years of drilling. The Conrad Zone consists of a package of carbonates (Conrad Limestone) and overlying siltstones to conglomerates (Conrad Siliciclastic) that are folded into a broad east west trending doubly plunging anticline. This fold appears to be folded again in the centre with the eastern and western limbs curving towards the north. The doubly folded Conrad Limestone and siliciclastic package is in fault contact with the Nonad mudstone unit along the steeply north dipping Nadaleen Fault Zone. This fault zone ranges up to 50 m wide and is a brittle to ductile cataclasite consisting of fragments of all three rock units occurring in irregular blocks against one another.

Gold mineralization is hosted in both the Conrad limestone and Conrad siliciclastic rocks, usually within 50 m of the very steeply dipping and often sheared contact. Gold mineralization is accompanied by decalcification and deposition of sooty pyrite, giving mineralized core a darker appearance than unmineralized intersections, although this is very subtle to non-recognizable in siliciclastic rocks. Permeability is the key factor controlling the distribution of alteration and mineralization. Features that control permeability include primary fluid conduits such as fault and shear zones as well as stylolites, veinlets and fold hinges (Tucker et. al., 2013). Realgar is commonly associated with gold bearing zones, but not all occurrences of realgar have associated gold.

In total, the gold mineralized zone at Conrad was extended 150 m to the west and 200 m to the east for a total mineralized extent of 800 m.

### **Isis East Zone**

Drilling at the Isis East Zone extended gold mineralization in three directions: 50 m to the northwest along the steeply dipping west limb of the south-plunging anticline, 50 m to the northeast along the more shallowly dipping east limb of the fold and to a depth along the plunge of the anticline of nearly 300 m.

Gold mineralization is hosted in silty limestone and dolostone of the Osiris carbonate package. Mineralization is strongly stratigraphically controlled along the limestone-dolostone contact, as well as focused along the hinge of the anticline. Decalcification and deposition of realgar accompanies gold mineralization.

### **Isis Zone**

Hole OS -12-189 hole was drilled to test the Isis gold-in-soil anomaly. While weakly anomalous in gold and strongly anomalous in arsenic, this hole did not explain the strength of the soil anomaly found on surface at the Isis Zone. The weak gold mineralization in the hole occurred in rocks to the north of the fault separating the Osiris carbonate package from more clastic rocks to the north. This was unusual as we would have expected the prospective Osiris limestone-dolostone to host the mineralization. Further work needs to assess the mineralizing potential of this structure and the clastic dominated rocks to the north of it.

### **Anubis Zone**

Drilling at the Anubis Zone focused on testing underneath high grade gold mineralization in outcrop and nearby pit samples along a northwest trending fault zone. Significant gold mineralization occurs within a carbonaceous, ferruginous Paleozoic argillite unit. This unit is thought to be Devonian in age as it occurs stratigraphically above a micritic limestone unit containing two hole crinoids.

Drill hole AN-12-001 intersected 19.85 g/t Au over 8.51 m in the subsurface equivalent of the gold bearing jasperoid material found at surface. AN-12-002 undercut AN-12-001 targeting the same jasperoid horizon but, while too steep to intersect the structure, it encountered a fault zone at an interval between 132.38-152.30 m containing weakly elevated gold values up to 0.32 g/t. This fault zone appears to be equivalent to the one targeted to the northwest by holes AN-12-004 and AN-12-005. Directly before intersecting the fault zone, AN-12-002 encountered a zone of 0.88 g/t Au over 7.69 m. This zone may correlate with the jasperoid zone encountered in AN-12-001 although alteration characteristics and quantitative gold values show significant differences.

AN-12-003 scissored AN -12-001 and returned 9.08 g/t Au over 16.76 m in the jasperoid zone. This hole also bottomed unexpectedly in mineralization in an apparent fault zone separating carbonaceous argillites from light grey lime-micrite.



Holes AN -12-004 and AN -12-005 continued testing the structure 600 m to the northwest under a pit sample grading 5.59 g/t. Both holes intersected intensely decalcified and clay-altered limestone with anomalous gold at or near the fault contact between the limestone and black shale.

A third soil anomaly with accompanying 0.88 g/t Au in a pit sample, along a parallel lineament 400 m north was tested by hole AN -12-006. Encouraging alteration was encountered from the top of the hole to a depth of 124 m. This zone of alteration is comprised of decalcification and minor silicification of limestone, accompanied by highly anomalous Carlin-type deposit pathfinder elements (As, Hg, Tl, Sb) and intermittent gold mineralization up to 1.2 g/t.

### **GT Zone**

Drilling at the GT Zone tested an apparently structurally controlled alteration zone with realgar and barite that was discovered during mapping and exposed through hand trenching. GT-12-01 intersected altered grey, clay-like material with green arsenic oxide staining. Samples collected within the alteration zone yielded elevated values for arsenic, mercury, antimony and thallium (up to 10,550 ppm, 9.84 ppm, 9.78 ppm, and 10.15 ppm respectively). Gold values were at or below detection.

### **Pyramid Zone**

Drilling at the Pyramid Zone targeted a previously defined east-west trending, south dipping, arsenic sulphide bearing structure. The structure was defined through a lithologic transition from carbonaceous argillite to dolomitized and brecciated limestone. PY-12-006 failed to reach the hanging wall argillite package due to poor ground conditions. PY-12-007 reached the target depth, intersecting realgar mineralization in the structure at 126.28 m. Gold assays throughout the hole were very low with the highest assay value returning 0.02 g/t between 111.86-114.91 m.

## **GEOPHYSICAL SURVEY**

### **GENERAL**

In late May 2012, detailed ground based gravity, magnetic and VLF electromagnetic surveys were conducted by Aurora Geosciences. The surveys were designed to show the mineral potential at the Kathy target (gold skarn) and Ocelot Zone (Ag-Pb-Zn) in the Rau Trend. Data from these geophysical surveys is presented in Appendix XII.

The Kathy and Ocelot Targets are both high temperature mineral assemblages. Mineralization at the Kathy Zone and the Ocelot Zone is dominated by high temperature assemblages related to the magmatic-hydrothermal system associated with the Rackla Pluton. The nature of alteration and high density of the sulphide phases that have formed in response to the magmatic-hydrothermal system and its interaction with country rocks make both of these zones prime candidates for geophysical prospecting.

## **RESULTS**

### **Ocelot Zone**

Of the three methods used, gravity appears to be the most insightful into the potential for further massive sulphide mineralization at the Ocelot Zone. The main sulphide body at the Ocelot Zone stands out as a first order gravity anomaly. Furthermore, the gravity data displays four other first order anomalies in the area. Some of these unexplored anomalies also have coincident geochemical and vegetative anomalies and should be considered high priority for future exploration.

Magnetic and electromagnetic data appear to have a less obvious signature in association with the known massive sulphide body at Ocelot. Both in-phase and out-of-phase electromagnetic data indicate the presence of northeast trending structures at Ocelot which parallel structures thought to control mineralization in the previously drill tested area. Magnetic data shows an arcuate area of moderate magnetic intensity surrounding the southeast flank of the mineralized zone. The hypothesized projection of the north westerly trending strain corridor that hosts the Tiger Deposit 20 km to the east appears to be defined by moderate to high magnetic intensity. A strong first order magnetic anomaly, corresponding to an area of higher elevation, occurs in the northern portion of the survey grid. The cause of this magnetic anomaly is unknown, but based on other geochemical and geophysical data it does not appear to be related to the presence of sulphides.

### **Kathy Target**

Gravity data that has been processed to remove regional scale gravity trends (maps with regional trend removed) illustrates a first order gravity anomaly where gold in marble has been encountered during prospecting. A curvilinear trend defined by a transition from high to low gravity response ranges from northwest oriented in the south portion of the grid to north trending in the northern portion of the grid. The eastern limit of this first order gravity trend corresponds to a northerly oriented lithologic change from marble to carbonaceous argillite. Since bedding in the area is discordant with this contact orientation, the gravity gradient may indicate a fault.

Electromagnetic data over the Kathy area shows a northeasterly grain with a prominent conductivity trend at approximately the contact between the carbonaceous argillites and marble. This could represent the contact between the two units, but is at a different orientation than suggested by the gravity data. Therefore, further work is needed to determine whether the gravity or electromagnetic trends approximate a prospective contact between the two units.

A large, first order magnetic high occurs in the northwest portion of the grid across a well-defined northeasterly trending structure from which the Kathy gossan is sourcing. This magnetic anomaly may indicate an abrupt lithologic transition as the result of fault displacement. Massive pyrrhotite was dug out of a pit in the area to the northwest of the structure underneath a soil sample that contained elevated gold, bismuth and arsenic. The presence of magnetic pyrrhotite could be responsible for the anomalous magnetic characteristic of this area.

## **DISCUSSION AND CONCLUSIONS**

The Rackla Gold Property lies at the boundary between Mackenzie Platform and Selwyn Basin, within geomorphological and geological settings similar to those at the Carlin gold district in northeast Nevada. At the eastern end of the 185 km long Rackla Gold Property, the Nadaleen trend is the first discovery of Carlin type gold mineralization in this belt of rocks. In contrast, precious and base metal mineralization at the Rau Trend at the western end of the property, specifically the Tiger Deposit, appears to be geochemically related to the nearby early Tertiary Rackla Pluton (Thiessen, et al 2012; Gleeson, 2012). Encouraging new Carlin type discoveries along the Nadaleen Trend and new magmatic related discoveries in the Rau Trend during the 2012 exploration season promote continued exploration on the property and across the district.

Silt and soil sampling, prospecting and geophysical surveys in 2012 defined 12 new first order Carlin pathfinder element target areas requiring follow up work in the Nadaleen Trend and one new anomalous zone in the Rau Trend. Along the Nadaleen Trend, analysis of satellite imagery suggested the southern bounding structure at the Anubis Zone appears to continue northwesterly for at least 4 km. Focused exploration along this structure may result in further discoveries of Carlin type gold mineralization. Detailed mapping should be continued around all geochemical anomalies with particular attention to recognizing folds, faults and favourable carbonate strata, since they are the principal controls over the location of mineralization in gold-rich, carbonate-hosted replacement deposits.

Diamond drilling during 2012 focused on the Nadaleen Trend at the eastern end of the property. The drilling extended the area of known mineralization at the Conrad Zone by 350 m and better defined structural and stratigraphic controls on the gold mineralization. The gold mineralization is found within approximately 50 metres of the contact between the silty limestone and overlying pyritic siliciclastic rocks with the best intersections in the hinge of the Conrad anticline near this lithologic contact. Mineralization remains open to west, east and at depth. Further work testing deeper in the Conrad Zone is needed to define the extent and orientation of mineralization peripheral to the main zone.

Drilling at the Isis East Zone confirmed that mineralization is strongly stratigraphically controlled near the hinge of a south plunging anticlinal structure. Further drilling both at depth and along stratigraphic horizons is required. Drilling at the Isis Zone returned anomalous but not significant gold values. The source of high gold-in-soil values at the Isis Zone remains elusive, and therefore more work is required to define the source of this mineralization.

The newly discovered Anubis Zone is proving to have significant Carlin type gold mineralization at depth as well as at surface. Mineralization appears to be controlled by west-northwest trending, steeply dipping structures. The dramatic soil anomaly defined by soil sampling along this structural trend supports the need for significant additional pitting, trenching and follow up drilling.

Additional drilling at the Pyramid Zone intersected the east-west trending arsenic sulphide bearing structure found during 2011 drilling, but returned no significant gold values. Deeper drilling of the structure may be required to define gold bearing zones that may occur at depth.

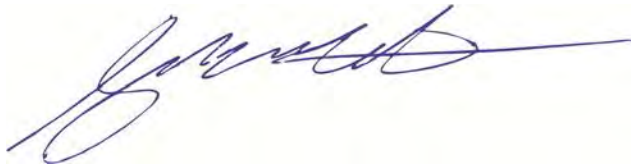
It is likely that currently undiscovered gold occurrences within the Racka Gold Property occur at depth and may have relatively subdued surface signatures. The Osiris and Isis East Zones within the Nadaleen Trend and the Tiger Deposit within the Rau Trend are at surface gold occurrences with strong geochemical signatures. Further exploration techniques should focus on the coincident presence of favourable indicator elements in soils occurring in association with favourable stratigraphy and structural features which facilitate auriferous fluid transport and gold deposition.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



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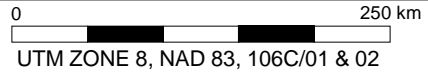
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FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY LOCATION  
PACKLA GOLD PROPERTY**



FILE: F1\_Project\_Location.wor

DATE: APRIL 2013

NORTHWEST TERRITORIES

 **RACKLA GOLD PROPERTY**

ALASKA

Dawson

Mayo

Faro

Carmacks

Ross River

Haines Junction

Whitehorse

Watson Lake

Skagway

Atlin

BRITISH COLUMBIA

Haines

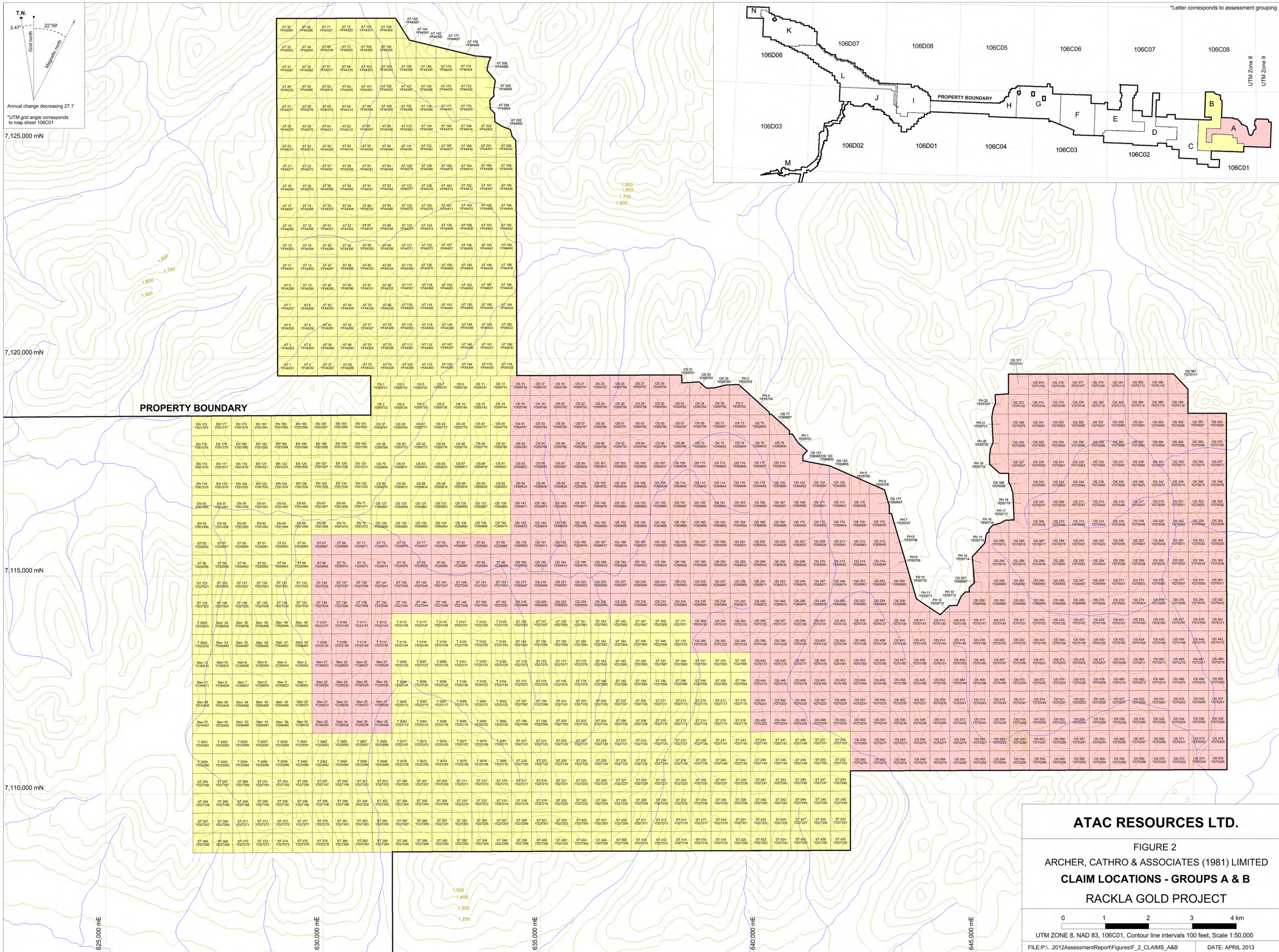
Dease Lake

PACIFIC OCEAN

Juneau

Telegraph Creek





T.N.  
2.47'  
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22°59'  
Magnetic north  
Annual change decreasing 27.1'  
\*UTM grid angle corresponds to map sheet 106C01

\*Letter corresponds to assessment grouping

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7,120,000 mN

PROPERTY BOUNDARY

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7,110,000 mN

625,000 mE

630,000 mE

635,000 mE

640,000 mE

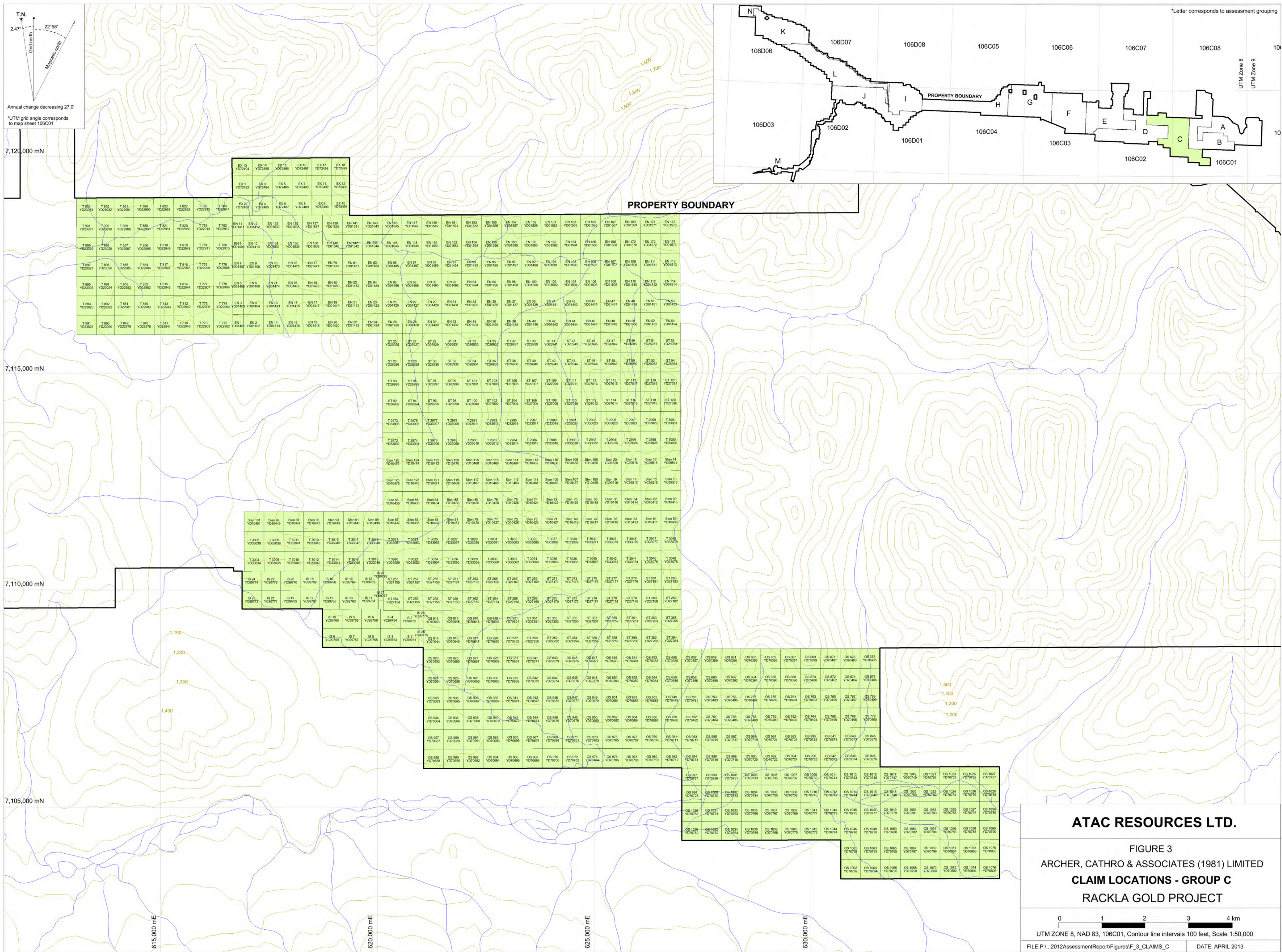
645,000 mE

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FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
CLAIM LOCATIONS - GROUPS A & B  
RACKLA PROJECT

0 1 2 3 4 km  
UTM ZONE 8, NAD 83, 106C01, Contour line intervals 100 feet, Scale 1:50,000





T.N.  
2.47'  
Grid north  
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Magnetic north  
Annual change decreasing 27.0'  
\*UTM grid angle corresponds to map sheet 106C01

\*Letter corresponds to assessment grouping

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7,115,000 mN

7,110,000 mN

7,105,000 mN

615,000 mE

620,000 mE

625,000 mE

630,000 mE

**ATAC RESOURCES LTD.**

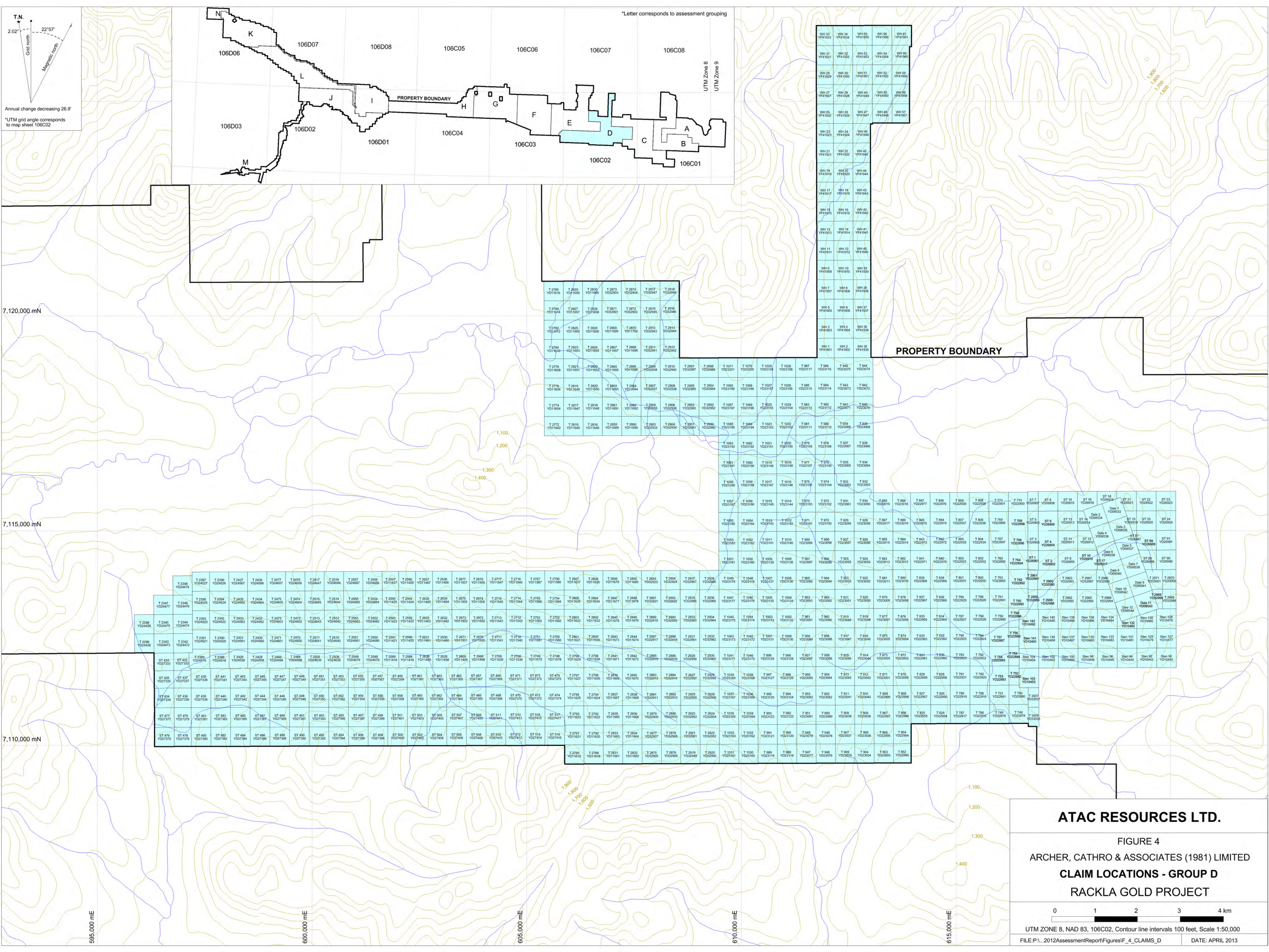
FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
CLAIM LOCATIONS - GROUP C  
RACKLA GOLD PROJECT

0 1 2 3 4 km

UTM ZONE 8, NAD 83, 106C01, Contour line intervals 100 feet, Scale 1:50,000

FILE:P:\...2012AssessmentReport\Figures\F\_3\_CLAIMS\_C DATE: APRIL 2013





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Magnetic north  
Annual change decreasing 26.9"  
\*UTM grid angle corresponds to map sheet 106C02

\*Letter corresponds to assessment grouping

UTM Zone 8  
UTM Zone 9

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7,115,000 mN

7,110,000 mN

595,000 mE

600,000 mE

605,000 mE

610,000 mE

615,000 mE

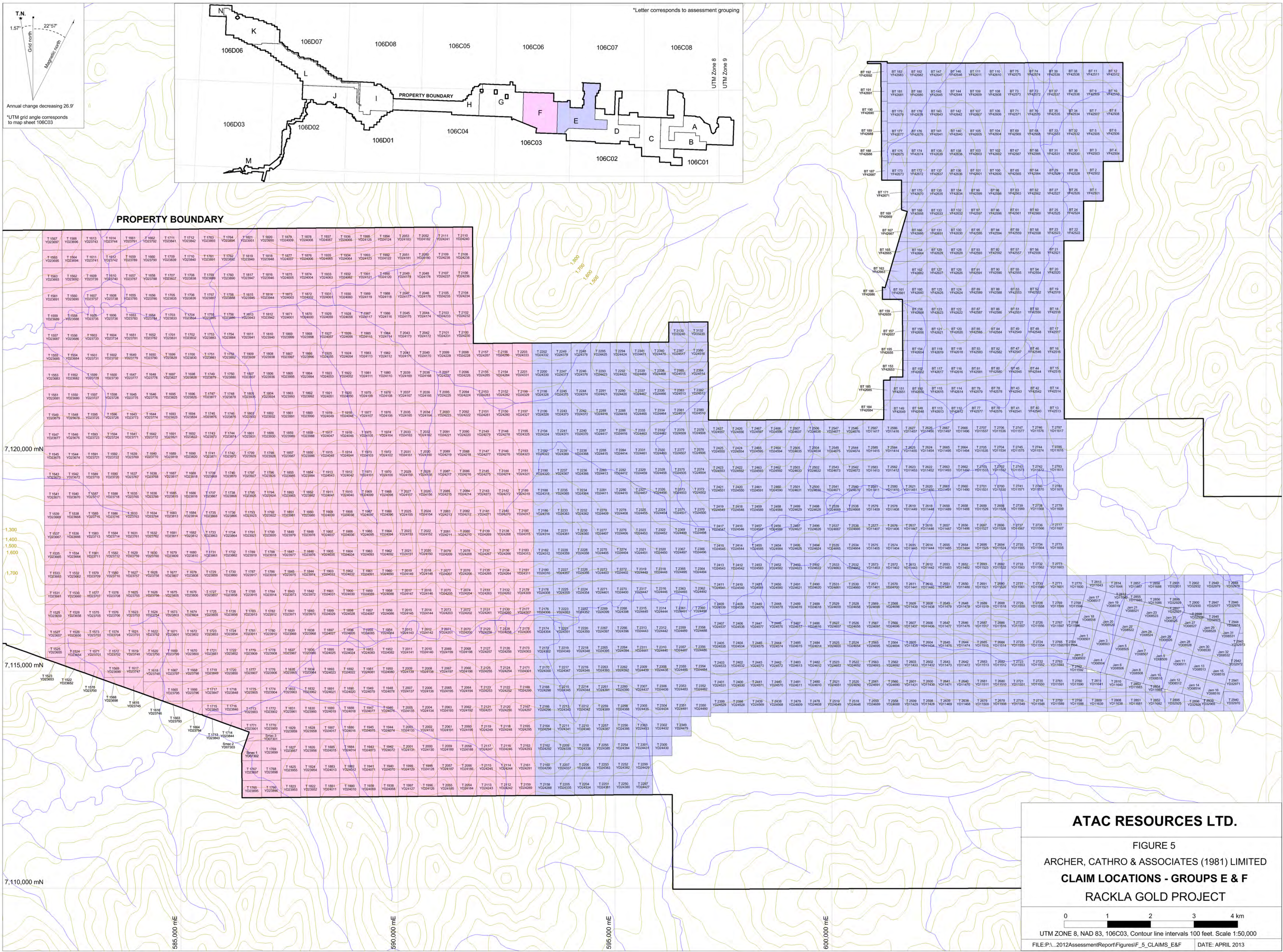
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FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
CLAIM LOCATIONS - GROUP D  
RACKLA GOLD PROJECT



UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:50,000  
FILE:P:\...2012AssessmentReport\Figures\F\_4\_CLAIMS\_D DATE: APRIL 2013





T.N.  
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Magnetic north  
Annual change decreasing 26.9'  
\*UTM grid angle corresponds to map sheet 106C03

\*Letter corresponds to assessment grouping

PROPERTY BOUNDARY

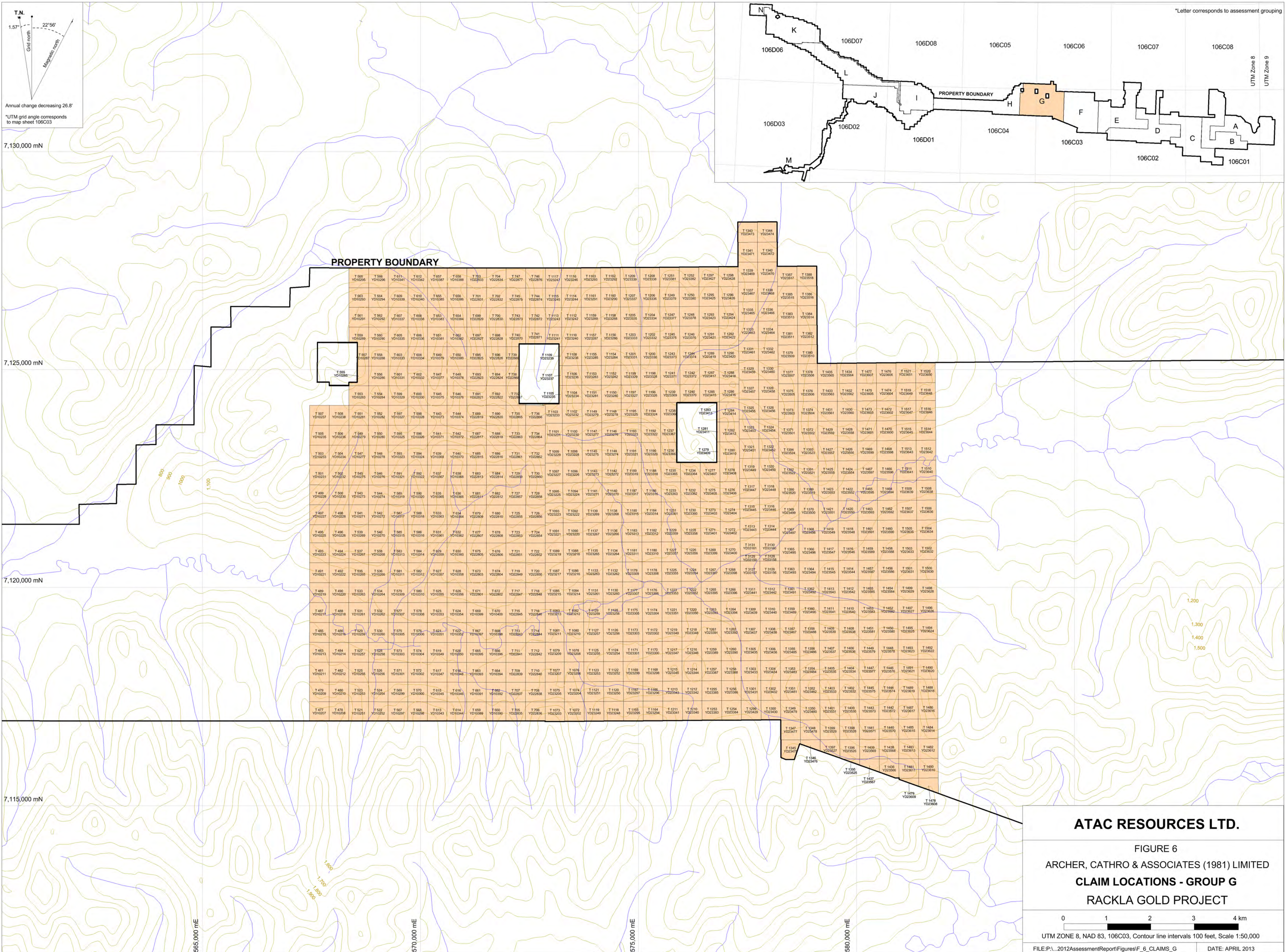
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FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS - GROUPS E & F**  
RACKLA GOLD PROJECT

0 1 2 3 4 km  
UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet. Scale 1:50,000

FILE: P:\2012AssessmentReport\Figures\F\_5\_CLAIMS\_E&F DATE: APRIL 2013





T.N.  
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Magnetic North  
Annual change decreasing 26.8'  
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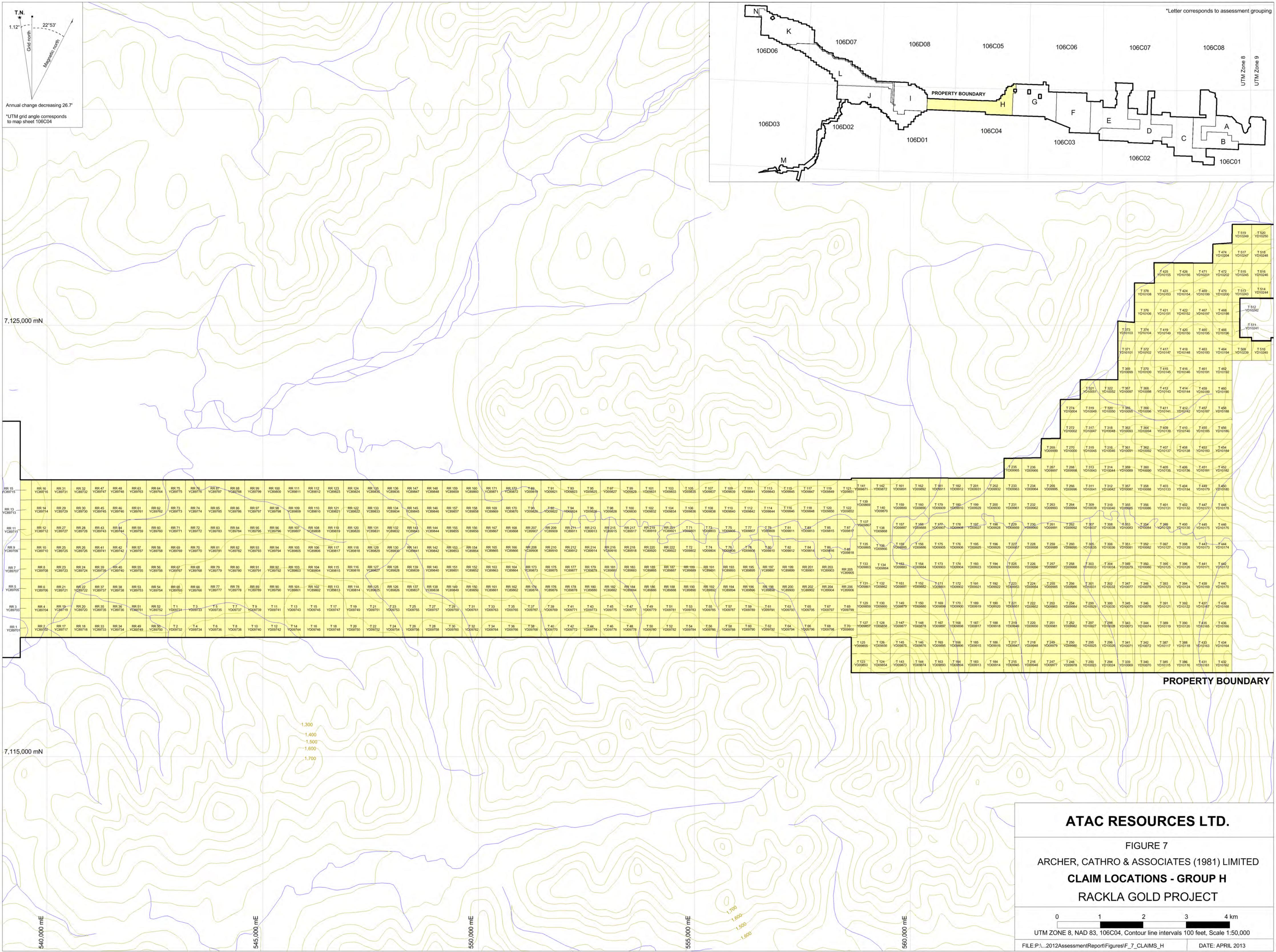
\*Letter corresponds to assessment grouping

UTM Zone 8  
UTM Zone 9

PROPERTY BOUNDARY

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T 563 YD10293	T 564 YD10294	T 609 YD10339	T 610 YD10340	T 655 YD10385	T 656 YD10386	T 701 YD10431	T 702 YD10432	T 745 YD10477	T 746 YD10478	T 1115 YD10523	T 1116 YD10524	T 1161 YD10569	T 1162 YD10570	T 1207 YD10615	T 1208 YD10616	T 1253 YD10661	T 1254 YD10662	T 1295 YD10707	T 1296 YD10708	T 1337 YD10753	T 1338 YD10754
T 561 YD10291	T 562 YD10292	T 607 YD10337	T 608 YD10338	T 653 YD10383	T 654 YD10384	T 699 YD10429	T 700 YD10430	T 743 YD10475	T 744 YD10476	T 1113 YD10521	T 1114 YD10522	T 1159 YD10567	T 1160 YD10568	T 1205 YD10613	T 1206 YD10614	T 1251 YD10659	T 1252 YD10660	T 1293 YD10705	T 1294 YD10706	T 1335 YD10751	T 1336 YD10752
T 559 YD10289	T 560 YD10290	T 605 YD10335	T 606 YD10336	T 651 YD10381	T 652 YD10382	T 697 YD10427	T 698 YD10428	T 741 YD10473	T 742 YD10474	T 1111 YD10519	T 1112 YD10520	T 1157 YD10565	T 1158 YD10566	T 1203 YD10611	T 1204 YD10612	T 1249 YD10657	T 1250 YD10658	T 1291 YD10703	T 1292 YD10704	T 1333 YD10749	T 1334 YD10750
T 557 YD10287	T 558 YD10288	T 603 YD10333	T 604 YD10334	T 649 YD10379	T 650 YD10380	T 695 YD10425	T 696 YD10426	T 739 YD10471	T 740 YD10472	T 1109 YD10517	T 1110 YD10518	T 1155 YD10563	T 1156 YD10564	T 1201 YD10609	T 1202 YD10610	T 1247 YD10655	T 1248 YD10656	T 1289 YD10701	T 1290 YD10702	T 1331 YD10747	T 1332 YD10748
T 555 YD10285	T 556 YD10286	T 601 YD10331	T 602 YD10332	T 647 YD10377	T 648 YD10378	T 693 YD10423	T 694 YD10424	T 737 YD10471	T 738 YD10472	T 1107 YD10515	T 1108 YD10516	T 1153 YD10561	T 1154 YD10562	T 1199 YD10607	T 1200 YD10608	T 1245 YD10653	T 1246 YD10654	T 1287 YD10701	T 1288 YD10702	T 1329 YD10745	T 1330 YD10746
T 553 YD10283	T 554 YD10284	T 599 YD10329	T 600 YD10330	T 645 YD10375	T 646 YD10376	T 691 YD10421	T 692 YD10422	T 735 YD10469	T 736 YD10470	T 1105 YD10513	T 1106 YD10514	T 1151 YD10559	T 1152 YD10560	T 1197 YD10605	T 1198 YD10606	T 1243 YD10651	T 1244 YD10652	T 1285 YD10701	T 1286 YD10702	T 1327 YD10743	T 1328 YD10744
T 551 YD10281	T 552 YD10282	T 597 YD10327	T 598 YD10328	T 643 YD10373	T 644 YD10374	T 689 YD10419	T 690 YD10420	T 733 YD10467	T 734 YD10468	T 1103 YD10511	T 1104 YD10512	T 1149 YD10557	T 1150 YD10558	T 1195 YD10603	T 1196 YD10604	T 1241 YD10649	T 1242 YD10650	T 1283 YD10701	T 1284 YD10702	T 1325 YD10741	T 1326 YD10742
T 549 YD10279	T 550 YD10280	T 595 YD10325	T 596 YD10326	T 641 YD10371	T 642 YD10372	T 687 YD10417	T 688 YD10418	T 731 YD10465	T 732 YD10466	T 1101 YD10509	T 1102 YD10510	T 1147 YD10555	T 1148 YD10556	T 1193 YD10601	T 1194 YD10602	T 1239 YD10647	T 1240 YD10648	T 1281 YD10701	T 1282 YD10702	T 1323 YD10739	T 1324 YD10740
T 547 YD10277	T 548 YD10278	T 593 YD10323	T 594 YD10324	T 639 YD10369	T 640 YD10370	T 685 YD10415	T 686 YD10416	T 729 YD10463	T 730 YD10464	T 1099 YD10507	T 1100 YD10508	T 1145 YD10553	T 1146 YD10554	T 1191 YD10599	T 1192 YD10600	T 1237 YD10645	T 1238 YD10646	T 1279 YD10699	T 1280 YD10700	T 1321 YD10737	T 1322 YD10738
T 545 YD10275	T 546 YD10276	T 591 YD10321	T 592 YD10322	T 637 YD10367	T 638 YD10368	T 683 YD10413	T 684 YD10414	T 727 YD10461	T 728 YD10462	T 1097 YD10505	T 1098 YD10506	T 1143 YD10551	T 1144 YD10552	T 1189 YD10597	T 1190 YD10598	T 1235 YD10643	T 1236 YD10644	T 1277 YD10697	T 1278 YD10698	T 1319 YD10735	T 1320 YD10736
T 543 YD10273	T 544 YD10274	T 589 YD10319	T 590 YD10320	T 635 YD10365	T 636 YD10366	T 681 YD10411	T 682 YD10412	T 725 YD10459	T 726 YD10460	T 1095 YD10503	T 1096 YD10504	T 1141 YD10549	T 1142 YD10550	T 1187 YD10595	T 1188 YD10596	T 1233 YD10641	T 1234 YD10642	T 1275 YD10695	T 1276 YD10696	T 1317 YD10733	T 1318 YD10734
T 541 YD10271	T 542 YD10272	T 587 YD10317	T 588 YD10318	T 633 YD10363	T 634 YD10364	T 679 YD10409	T 680 YD10410	T 723 YD10457	T 724 YD10458	T 1093 YD10501	T 1094 YD10502	T 1139 YD10547	T 1140 YD10548	T 1185 YD10593	T 1186 YD10594	T 1231 YD10639	T 1232 YD10640	T 1273 YD10693	T 1274 YD10694	T 1315 YD10731	T 1316 YD10732
T 539 YD10269	T 540 YD10270	T 585 YD10315	T 586 YD10316	T 631 YD10361	T 632 YD10362	T 677 YD10407	T 678 YD10408	T 721 YD10455	T 722 YD10456	T 1091 YD10499	T 1092 YD10500	T 1137 YD10545	T 1138 YD10546	T 1183 YD10591	T 1184 YD10592	T 1229 YD10637	T 1230 YD10638	T 1271 YD10691	T 1272 YD10692	T 1313 YD10729	T 1314 YD10730
T 537 YD10267	T 538 YD10268	T 583 YD10313	T 584 YD10314	T 629 YD10359	T 630 YD10360	T 675 YD10405	T 676 YD10406	T 719 YD10453	T 720 YD10454	T 1089 YD10497	T 1090 YD10498	T 1135 YD10543	T 1136 YD10544	T 1181 YD10589	T 1182 YD10590	T 1227 YD10635	T 1228 YD10636	T 1269 YD10689	T 1270 YD10690	T 1311 YD10727	T 1312 YD10728
T 535 YD10265	T 536 YD10266	T 581 YD10311	T 582 YD10312	T 627 YD10357	T 628 YD10358	T 673 YD10403	T 674 YD10404	T 717 YD10451	T 718 YD10452	T 1087 YD10495	T 1088 YD10496	T 1133 YD10541	T 1134 YD10542	T 1179 YD10587	T 1180 YD10588	T 1225 YD10633	T 1226 YD10634	T 1267 YD10687	T 1268 YD10688	T 1309 YD10725	T 1310 YD10726
T 533 YD10263	T 534 YD10264	T 579 YD10309	T 580 YD10310	T 625 YD10355	T 626 YD10356	T 671 YD10401	T 672 YD10402	T 715 YD10449	T 716 YD10450	T 1085 YD10493	T 1086 YD10494	T 1131 YD10539	T 1132 YD10540	T 1177 YD10585	T 1178 YD10586	T 1223 YD10631	T 1224 YD10632	T 1265 YD10685	T 1266 YD10686	T 1307 YD10723	T 1308 YD10724
T 531 YD10261	T 532 YD10262	T 577 YD10307	T 578 YD10308	T 623 YD10353	T 624 YD10354	T 669 YD10399	T 670 YD10400	T 713 YD10447	T 714 YD10448	T 1083 YD10491	T 1084 YD10492	T 1129 YD10537	T 1130 YD10538	T 1175 YD10583	T 1176 YD10584	T 1221 YD10629	T 1222 YD10630	T 1263 YD10683	T 1264 YD10684	T 1305 YD10721	T 1306 YD10722
T 529 YD10259	T 530 YD10260	T 575 YD10305	T 576 YD10306	T 621 YD10351	T 622 YD10352	T 667 YD10397	T 668 YD10398	T 711 YD10445	T 712 YD10446	T 1081 YD10489	T 1082 YD10490	T 1127 YD10535	T 1128 YD10536	T 1173 YD10581	T 1174 YD10582	T 1219 YD10627	T 1220 YD10628	T 1261 YD10681	T 1262 YD10682	T 1303 YD10719	T 1304 YD10720
T 527 YD10257	T 528 YD10258	T 573 YD10303	T 574 YD10304	T 619 YD10349	T 620 YD10350	T 665 YD10395	T 666 YD10396	T 709 YD10443	T 710 YD10444	T 1079 YD10487	T 1080 YD10488	T 1125 YD10533	T 1126 YD10534	T 1171 YD10579	T 1172 YD10580	T 1217 YD10625	T 1218 YD10626	T 1259 YD10681	T 1260 YD10682	T 1301 YD10717	T 1302 YD10718
T 525 YD10255	T 526 YD10256	T 571 YD10301	T 572 YD10302	T 617 YD10347	T 618 YD10348	T 663 YD10393	T 664 YD10394	T 707 YD10441	T 708 YD10442	T 1077 YD10485	T 1078 YD10486	T 1123 YD10531	T 1124 YD10532	T 1169 YD10577	T 1170 YD10578	T 1215 YD10623	T 1216 YD10624	T 1257 YD10679	T 1258 YD10680	T 1299 YD10715	T 1300 YD10716
T 523 YD10253	T 524 YD10254	T 569 YD10299	T 570 YD10300	T 615 YD10345	T 616 YD10346	T 661 YD10391	T 662 YD10392	T 705 YD10439	T 706 YD10440	T 1075 YD10483	T 1076 YD10484	T 1121 YD10529	T 1122 YD10530	T 1167 YD10575	T 1168 YD10576	T 1213 YD10621	T 1214 YD10622	T 1255 YD10677	T 1256 YD10678	T 1297 YD10713	T 1298 YD10714
T 521 YD10251	T 522 YD10252	T 567 YD10297	T 568 YD10298	T 613 YD10343	T 614 YD10344	T 659 YD10389	T 660 YD10390	T 703 YD10437	T 704 YD10438	T 1073 YD10481	T 1074 YD10482	T 1119 YD10527	T 1120 YD10528	T 1165 YD10573	T 1166 YD10574	T 1211 YD10619	T 1212 YD10620	T 1253 YD10675	T 1254 YD10676	T 1295 YD10711	T 1296 YD10712
T 519 YD10249	T 520 YD10250	T 565 YD10295	T 566 YD10296	T 611 YD10341	T 612 YD10342	T 657 YD10387	T 658 YD10388	T 701 YD10433	T 702 YD10434	T 1117 YD10525	T 1118 YD10526	T 1163 YD10571	T 1164 YD10572	T 1209 YD10617	T 1210 YD10618	T 1255 YD10663	T 1256 YD10664	T 1297 YD10709	T 1298 YD10710	T 1343 YD10755	T 1344 YD10756
T 517 YD10247	T 518 YD10248	T 563 YD10293	T 564 YD10294	T 609 YD10339	T 610 YD10340	T 655 YD10385	T 656 YD10386	T 701 YD10431	T 702 YD10432	T 1115 YD10523	T 1116 YD10524	T 1161 YD10569	T 1162 YD10570	T 1207 YD10615	T 1208 YD10616	T 1253 YD10659	T 1254 YD10660	T 1295 YD10707	T 1296 YD10708	T 1337 YD10753	T 1338 YD10754
T 515 YD10245	T 516 YD10246	T 561 YD10291	T 562 YD10292	T 607 YD10337	T 608 YD10338	T 653 YD10383	T 654 YD10384	T 699 YD10429	T 700 YD10430	T 1113 YD10521	T 1114 YD10522	T 1159 YD10567	T 1160 YD10568	T 1205 YD10613	T 1206 YD10614	T 1251 YD10659	T 1252 YD10660	T 1293 YD10705	T 1294 YD10706	T 1335 YD10751	T 1336 YD10752
T 513 YD10243	T 514 YD10244	T 559 YD10289	T 560 YD10290	T 605 YD10335	T 606 YD10336	T 651 YD10381	T 652 YD10382	T 697 YD10427	T 698 YD10428	T 1111 YD10519	T 1112 YD10520	T 1157 YD10565	T 1158 YD10566	T 1203 YD10611	T 1204 YD10612	T 1249 YD10657	T 1250 YD10658	T 1291 YD10703	T 1292 YD10704	T 1333 YD10749	T 1334 YD10750
T 511 YD10241	T 512 YD10242	T 557 YD10287	T 558 YD10288	T 603 YD10333	T 604 YD10334	T 649 YD10379	T 650 YD10380	T 695 YD10425	T 696												





T.N.  
1.12'  
Grid north  
22' 53"  
Magnetic north  
Annual change decreasing 26.7"  
\*UTM grid angle corresponds to map sheet 106C04

\*Letter corresponds to assessment grouping

7,125,000 mN

7,115,000 mN

540,000 mE

545,000 mE

550,000 mE

555,000 mE

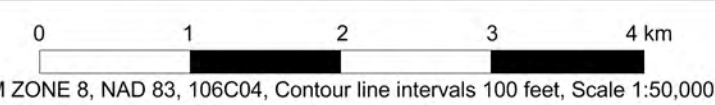
560,000 mE

1,300  
1,400  
1,500  
1,600  
1,700

1,700  
1,600  
1,500  
1,400

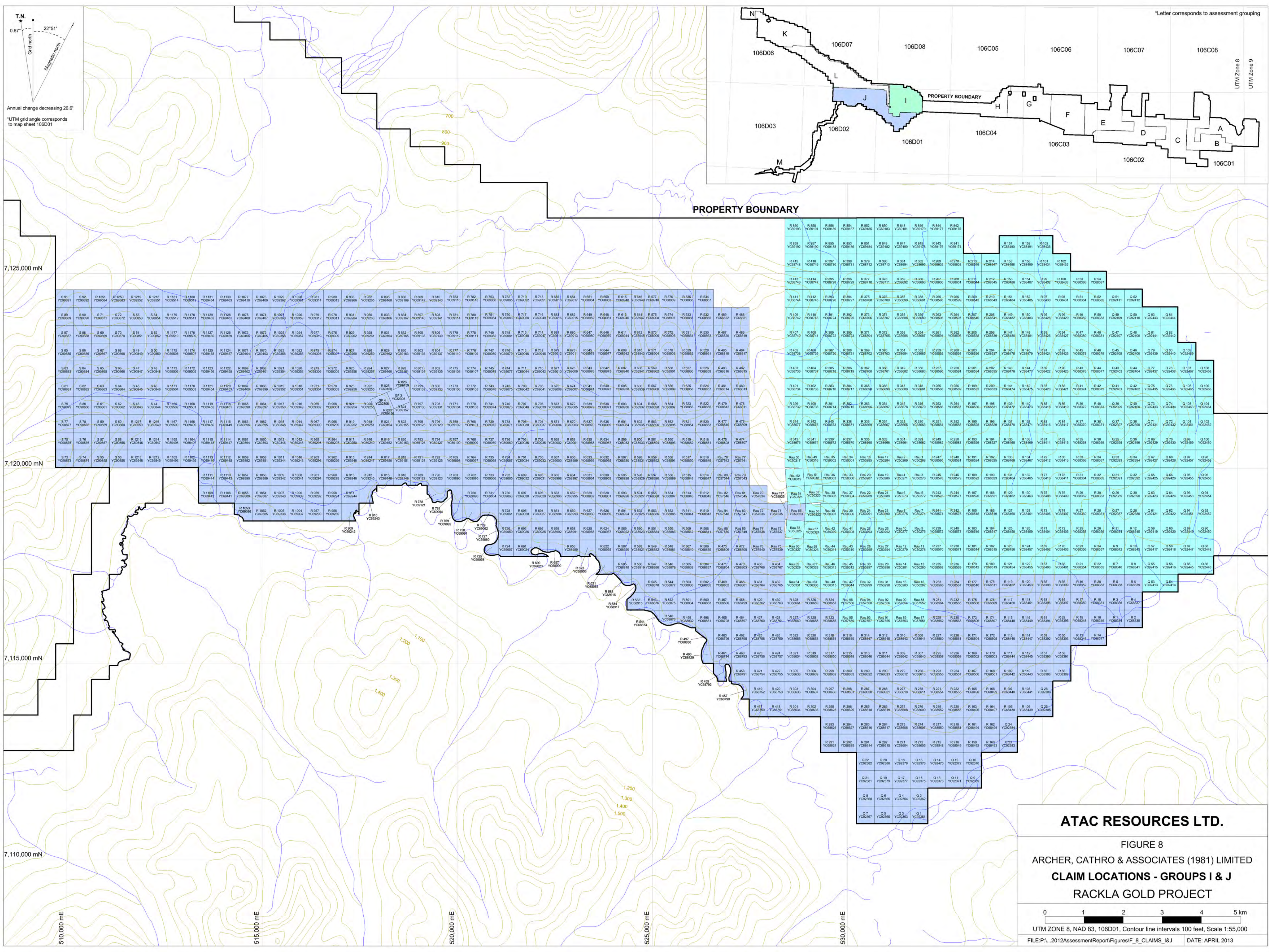
**ATAC RESOURCES LTD.**

FIGURE 7  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS - GROUP H**  
RACKLA GOLD PROJECT



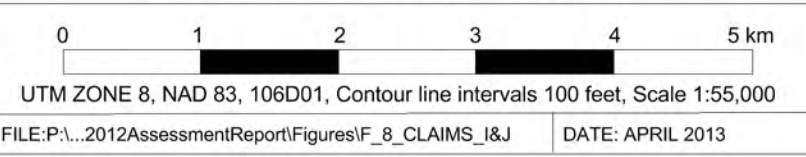
UTM ZONE 8, NAD 83, 106C04, Contour line intervals 100 feet, Scale 1:50,000





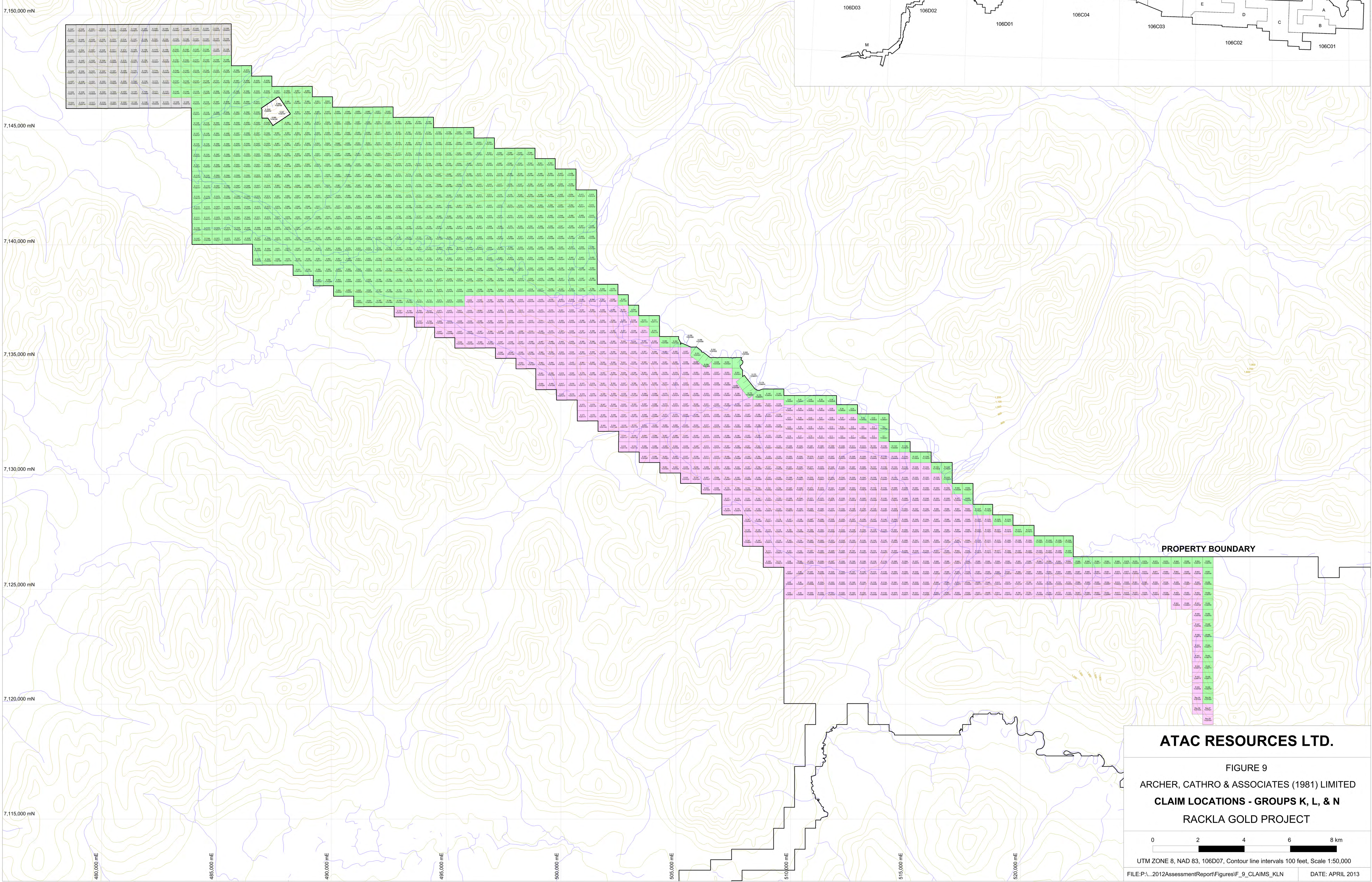
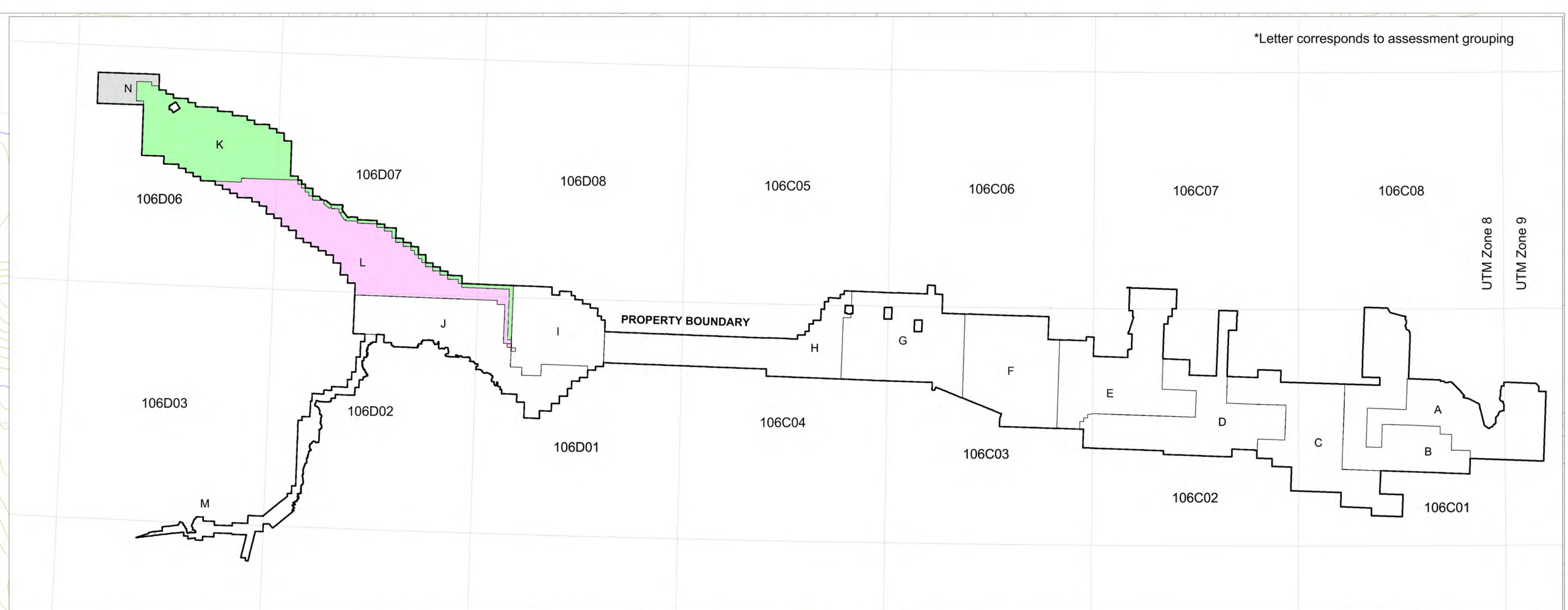
**ATAC RESOURCES LTD.**

FIGURE 8  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS - GROUPS I & J**  
 RACKLA GOLD PROJECT





T.N.  
 0.23°  
 Grid north  
 22°49'  
 Magnetic north  
 Annual change decreasing 26.5'  
 \*UTM grid angle corresponds to map sheet 106D07



PROPERTY BOUNDARY

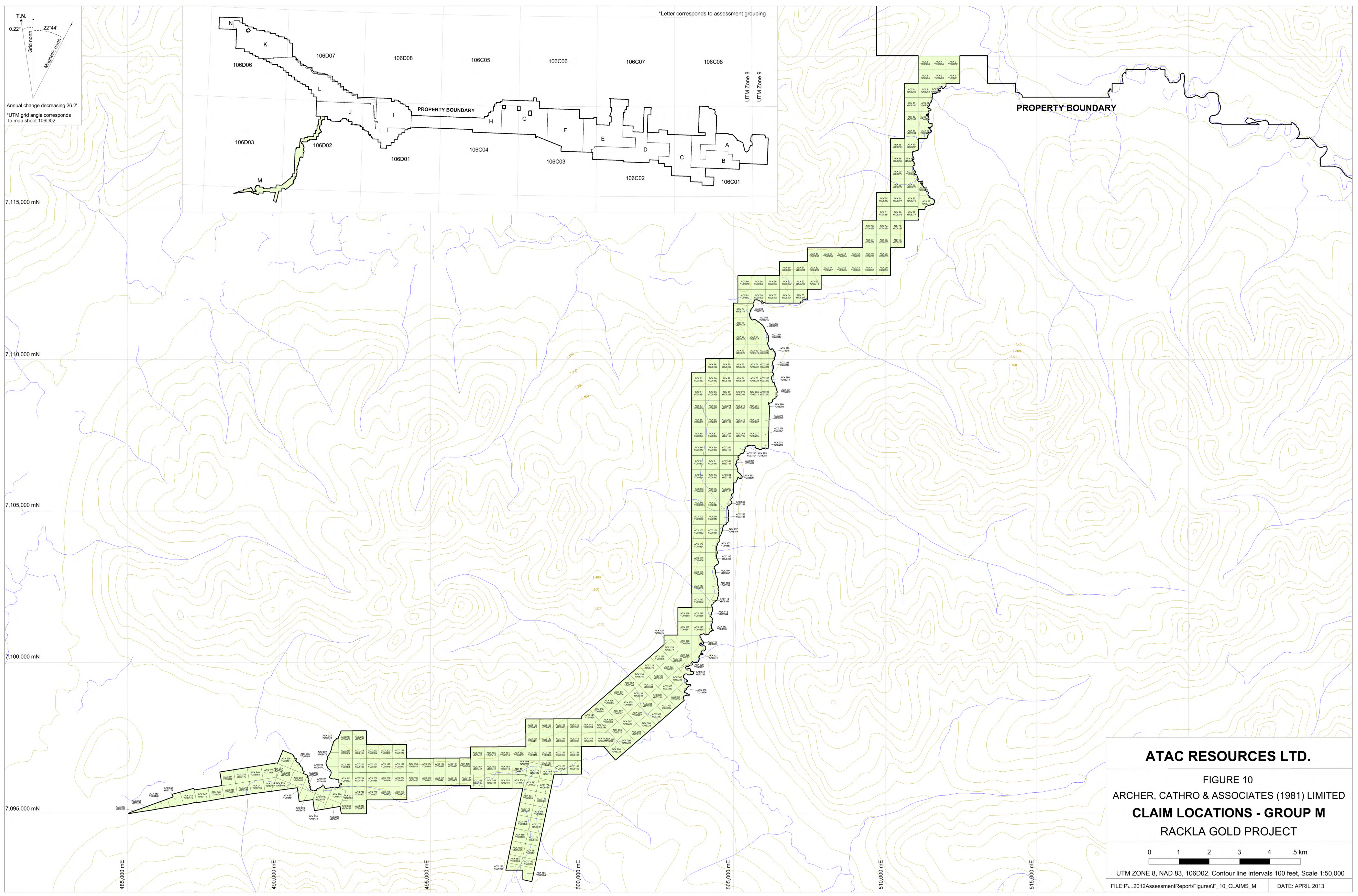
**ATAC RESOURCES LTD.**

FIGURE 9  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 CLAIM LOCATIONS - GROUPS K, L, & N  
 RACKLA GOLD PROJECT



UTM ZONE 8, NAD 83, 106D07, Contour line intervals 100 feet, Scale 1:50,000





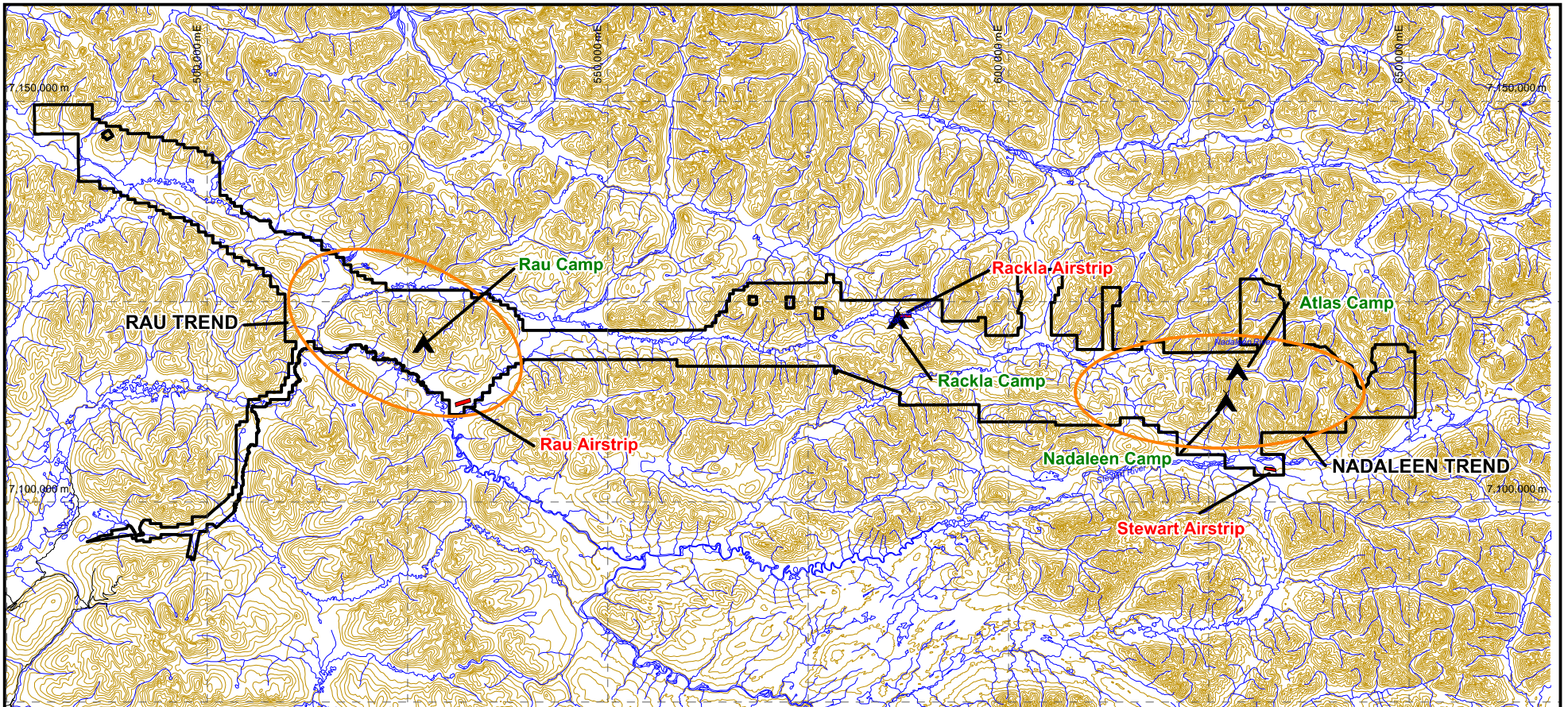
**ATAC RESOURCES LTD.**

FIGURE 10  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS - GROUP M**  
 RACKLA GOLD PROJECT


0 1 2 3 4 5 km


UTM ZONE 8, NAD 83, 106D02, Contour line intervals 100 feet, Scale 1:50,000  
 FILE:PL\_2012AssessmentReport\Figures\F\_10\_CLAIMS\_M DATE: APRIL 2013





**Symbol Legend**

 - Airstrip Location

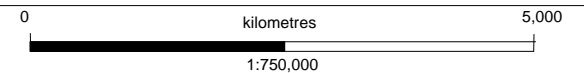
 - Camp Location

**ATAC RESOURCES LTD.**

FIGURE 11  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

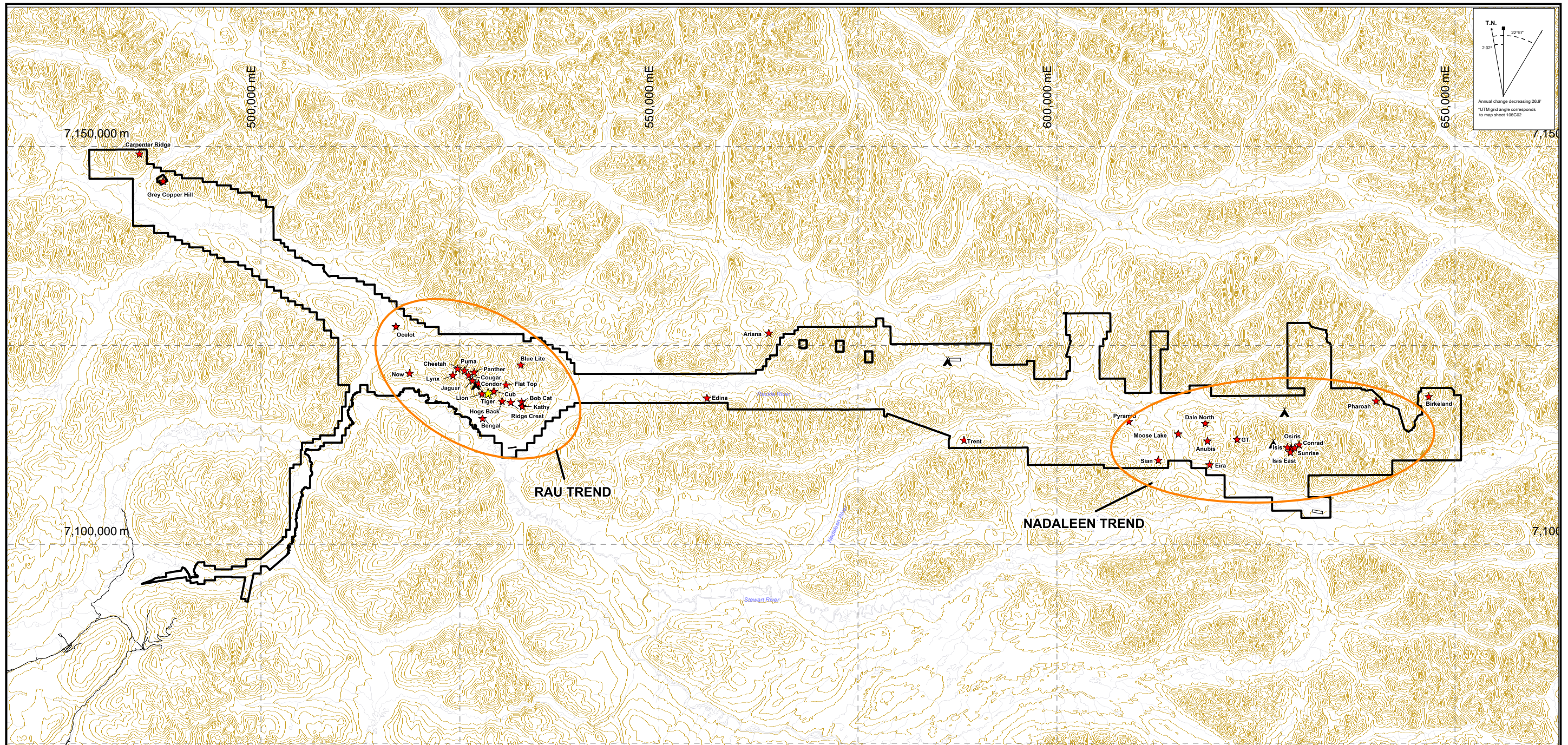
**CAMPS, AIRSTRIPS AND  
 MINERALIZATION TRENDS**

Rackla Gold Property



UTM Zone 8 (NAD 83), 106B/4, 106C/1-8, 106D/1-3,6-8





**Symbol Legend**

- Airstrip Location
- Camp Location

**ATAC RESOURCES LTD.**

FIGURE 12  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

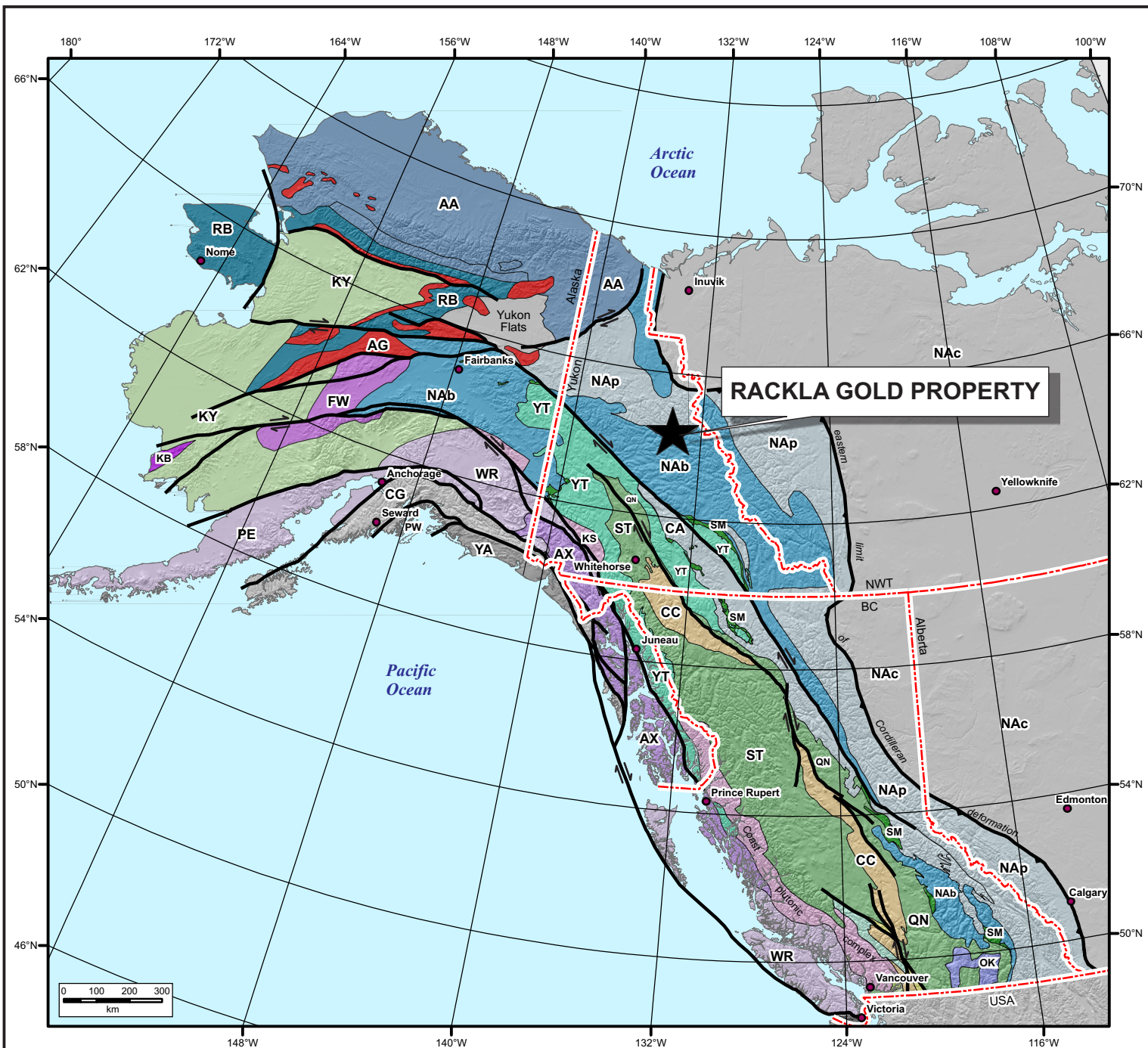
**RACKLA PROPERTY  
SHOWINGS**

Rackla Gold Property

0                      kilometres                      25,000  
1:500,000

UTM Zone 8 (NAD 83), 106B/4, 106C/1-8, 106D/1-3,6-8

FILE:F\_12\_Rackla PropertyShowings.WOR                      APRIL 2013



**RACKLA GOLD PROPERTY**

- |           |                           |                        |
|-----------|---------------------------|------------------------|
| <b>YA</b> | Yakutat                   | <b>Outboard</b>        |
| <b>PW</b> | Prince William            |                        |
| <b>CG</b> | Chugach                   |                        |
| <b>PR</b> | Pacific Rim               |                        |
| <b>CR</b> | Crescent                  |                        |
| <b>KY</b> | Koyukuk, Nyak, Togiak     | <b>Insular</b>         |
| <b>PE</b> | Peninsular                |                        |
| <b>AX</b> | Alexander                 |                        |
| <b>WR</b> | Wrangellia                |                        |
| <b>KS</b> | Kluane, Windy, Coast      |                        |
| <b>AG</b> | Angayucham/Tozitna/Innoko | <b>Northern Alaska</b> |
| <b>AA</b> | Arctic-Alaska, Hammond    |                        |
| <b>RB</b> | Coldfoot, Ruby, Seward    |                        |
| <b>FW</b> | Farewell                  |                        |
| <b>KB</b> | Kilbuck                   |                        |

- |           |                |                     |
|-----------|----------------|---------------------|
| <b>MT</b> | Methow         | <b>Intermontane</b> |
| <b>CD</b> | Cadwallader    |                     |
| <b>BR</b> | Bridge River   |                     |
| <b>CC</b> | Cache Creek    |                     |
| <b>HA</b> | Harrison       |                     |
| <b>CK</b> | Chilliwack     |                     |
| <b>ST</b> | Stikinia       |                     |
| <b>QN</b> | Quesnellia     |                     |
| <b>OK</b> | Okanagan       |                     |
| <b>YT</b> | Yukon-Tanana   |                     |
| <b>SM</b> | Slide Mountain |                     |

- |                                |                                |
|--------------------------------|--------------------------------|
| <b>Ancestral North America</b> |                                |
| <b>CA</b>                      | Cassiar                        |
| <b>NAb</b>                     | North America - basinal        |
| <b>NAP</b>                     | North America - platform       |
| <b>NAC</b>                     | North America - craton & cover |

Taken from Colpron, M. and Nelson, J.L., 2011

# ATAC RESOURCES LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## TECTONIC SETTING RACKLA GOLD PROPERTY

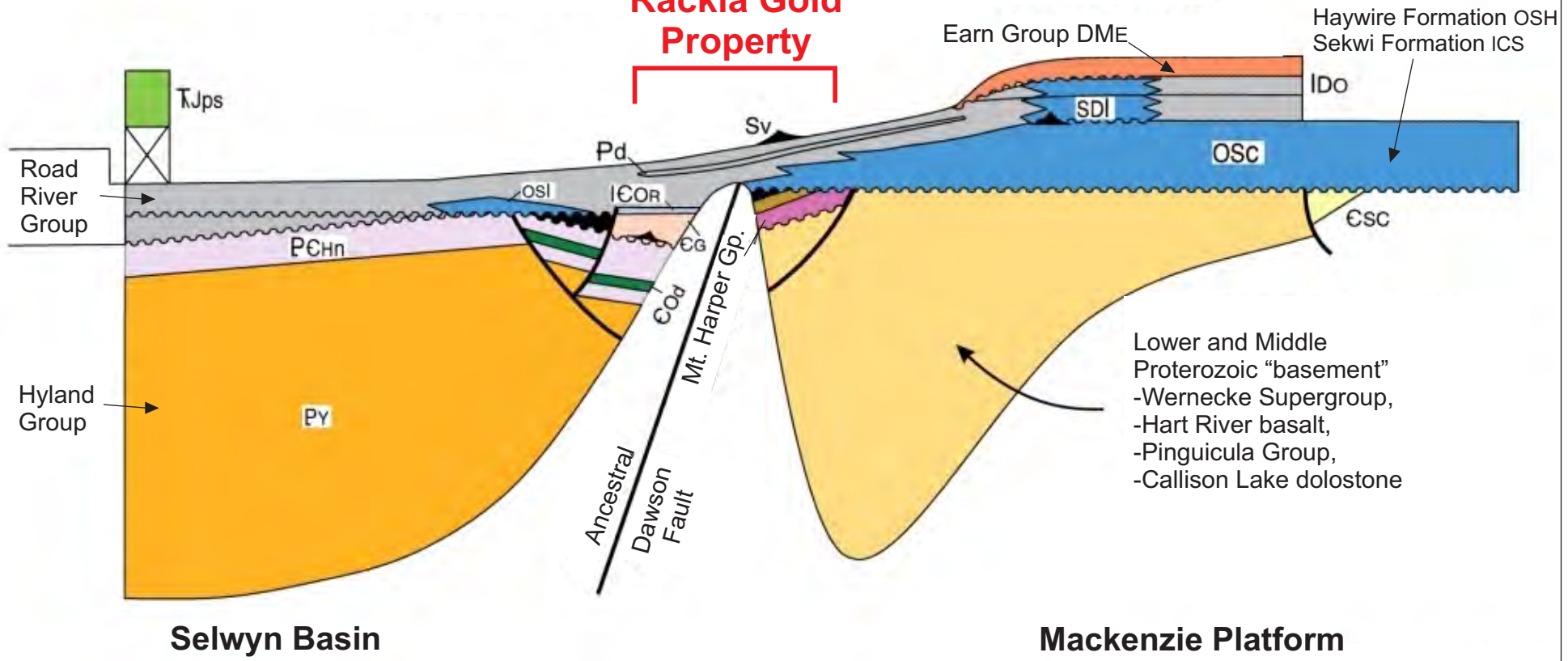


after Abbott (1997)

S

N

### Rackla Gold Property



## ATAC RESOURCES LTD.

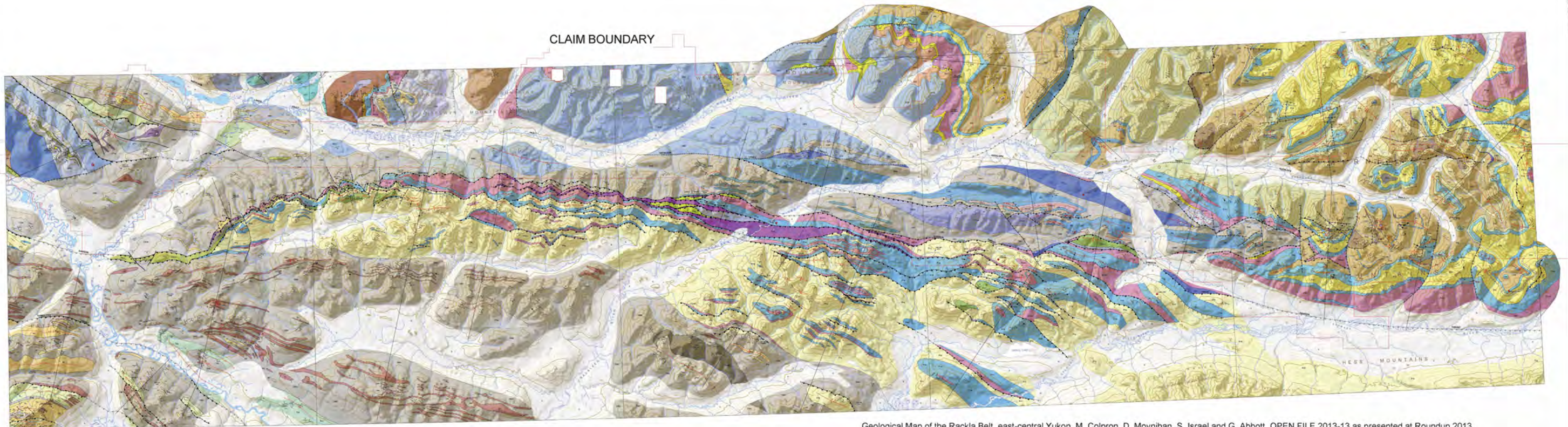
FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

### REGIONAL STRATIGRAPHIC SECTION

RACKLA GOLD PROPERTY





Geological Map of the Rackla Belt, east-central Yukon. M. Colpron, D. Moynihan, S. Israel and G. Abbott. OPEN FILE 2013-13 as presented at Roundup 2013.

## LEGEND

**QUATERNARY**  
**Q** QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

### IGNEOUS ROCKS

**LATE CRETACEOUS(?)**  
**LKp** McQUESTEN SUITE?: medium-grained, pegmatitic, microlitic, leucocratic fluorite-rich, muscovite, biotite granite; granodiorite (67-63 Ma) [only in 106D1 and 106C4]

**MIDDLE TRIASSIC**  
**Ta** GALENA SUITE: massive, dark grey weathering, medium-grained hornblende gabbro sills and dikes intruding Earn Group (c. 234-228 Ma)

**PALEOZOIC(?)**  
**Pg** dark green to black, fine to medium-grained gabbro, pyroxenite

**Pum** bright green to black serpentinite; orange to brown weathering listwaenite, commonly contains fuchsite

### MESOZOIC ROCKS

**MIDDLE TO UPPER TRIASSIC**  
**TJl** JONES LAKE FORMATION: recessive, buff to grey weathering, black sooty limestone; calcareous and non-calcareous, micaceous black shale; dark grey non-calcareous silt shale at base of sequence

**TJs** JONES LAKE FORMATION: recessive, non-calcareous grey slate and shale; recessive, buff to grey weathering calcareous black shale, micaceous, calcareous siltstone and sandstone (may include Lower Jurassic strata locally)

### PALEOZOIC PLATFORM ROCKS

**ORDOVICIAN TO DEVONIAN?**  
**ODa** BOUVETTE FORMATION: resistant, generally well-bedded to massive, grey weathering variably dolomitized carbonate; locally fossiliferous; locally contains black diagenetic chert

**SILURIAN TO MIDDLE DEVONIAN**  
**SDc** thick-bedded to massive light grey dolostone and limestone. Dark grey feld limestone containing "two hole" and "star" crinoids near top of unit

**SILURIAN (LLANDOVERY-WENLOCK)**  
**Sv** dark green to brown weathering vesicular basalt; carbonate-cemented hyaloclastic breccia; volcanic sandstone, grit and pebble to cobble conglomerate in platform carbonate hosting Rau (Tiger) deposit in 106D1

**ORDOVICIAN TO SILURIAN?**  
**OSs** rusty brown weathering, medium-grained, planar laminated sandstone, siltstone

**ORDOVICIAN TO SILURIAN**  
**OSc** thin to medium-bedded, grey and buff weathering, silty limestone; massive, white limestone; well bedded, pale yellow and grey limestone in upper part of unit

**UPPER CAMBRIAN TO LOWER ORDOVICIAN**  
**COc** massive, pale grey dolostone; oncoidic dolostone; minor quartzite and sandy dolostone

**UPPER CAMBRIAN**  
**uCT** TAIGA FORMATION?: finely laminated to thinly bedded grey and black dolostone; massive to well bedded, medium grey, pinkish grey dolostone

**NEOPROTEROZOIC (EDIACARAN) TO LOWER CAMBRIAN**  
**PCc** massive, pale grey limestone

### PALEOZOIC OFFSHORE ROCKS

**UPPER MISSISSIPPIAN TO LOWER PERMIAN**  
**CPps** dark grey shale interbedded with laminated quartz sandstone and thick-bedded, massive, fine-grained quartzite; buff and green phyllite; minor grey chert

**CPI** thick-bedded, buff and grey weathering, dark grey limestone; locally interbedded with shale; basal third of unit contains abundant ooids and fragments of other megafossils, and grit and chert-pebble conglomerate

**CPrg** chert pebble conglomerate, silica cemented in some places and carbonate cemented in others

**CARBONIFEROUS TO PERMIAN**  
**CPMc** MOUNT CHRISTIE FORMATION?: greenish-grey, pink and dark grey shale; light grey-green to black chert; minor sandstone, limestone

**MISSISSIPPIAN**  
**MT** MOUNT CHRISTIE FORMATION?: thin to medium bedded, greenish-grey to black chert; greenish-grey and grey shale

**MISSISSIPPIAN**  
**Mc** TSICHU GROUP (KENO HILL QUARTZITE): light to dark grey, thick bedded to massive, vitreous quartzite, black shale

**UPPER DEVONIAN TO LOWER MISSISSIPPIAN**  
**DME** EARN GROUP (undivided): brown-weathering, dark grey to black shale, chert, minor sandstone, siltstone; minor limestone; chert-pebble conglomerate and sandstone; locally bedded beds

**DMc** EARN GROUP?: bioclastic limestone, conglomerate, common chert pebble, crinoids and coral fragments (debris flow deposit in Earn Group shale)

**DMep** EARN GROUP, PREVOST FORMATION?: dark grey to black shale, white siltstone and sandstone

**DMvn** EARN GROUP?: light to dark green weathering, vesicular basalt, locally pillowed; mafic lapilli buff, volcanic breccia and volcanic sandstone; greenstone; minor light green quartz-kegular porphyry

**DMvl** EARN GROUP?: dark grey to buff weathering, dark grey foliated aphanitic felsic volcanic rocks, foliated quartz porphyry, interbedded buff weathering limestone near top of unit near Marg deposit (Milestone 106D009)

**MIDDLE TO UPPER DEVONIAN**  
**Dppl** EARN GROUP, PORTAIT LAKE FORMATION?: grey limestone

**Dppl** EARN GROUP, PORTAIT LAKE FORMATION: brown-weathering, dark grey to black shale; grey, black and grey-green, medium-bedded chert

**MIDDLE DEVONIAN (EIFELIAN)**  
**mDc** light grey conoidal limestone, contains "two-hole" and "star" crinoids

**ORDOVICIAN TO SILURIAN?**  
**OScs** buff weathering, medium-grained calcareous sandstone and sandy limestone/dolostone; locally gritty and very fossiliferous

**ORDOVICIAN TO LOWER DEVONIAN**  
**ODRn** ROAD RIVER GROUP: black shale, locally graptolitic; black limestone

**CAMBRIAN TO ORDOVICIAN**  
**COv** MARMOT GROUP?: dark green to black volcanoclastic sandstone and cobble to boulder conglomerate; dark brownish-grey weathering basalt, locally pillowed; black, hyaloclastic breccia

### NEOPROTEROZOIC-CAMBRIAN ROCKS IN HANGING WALL OF DAWSON THRUST

**LOWER TO MIDDLE CAMBRIAN**  
**COlv** GULL LAKE FORMATION?: brown-weathering, green volcanic sandstone, siltstone; locally gritty; conglomerate with mud chips; local orange weathering dolostone bands

**NEOPROTEROZOIC (EDIACARAN) TO LOWER CAMBRIAN**  
**PCIn** HYLAND GROUP, NARCHILLA FORMATION: maroon and green shale and siltstone, locally dolomitized; locally grey, brown shale, locally black grey sandstone; locally green and white sandstone; yellowish-buff weathering dolomitic limestone. Note: maroon shale typical of the Narchilla Formation also occur locally below or within dolomitic limestone of the Algas Formation

**NEOPROTEROZOIC (EDIACARAN)**  
**PHa** HYLAND GROUP, ALGAE FORMATION: light grey to yellowish-buff weathering dolomitic limestone and dolostone, variably dolomitized and variably silty/sandy; locally fine-grained, dolomitic sandstone; commonly graded and cross-bedded; local occurrence of Ediacaran fossils; minor grey and/or maroon shale; local debris flow units; generally limestone pebbles to cobble breccia and conglomerate; some polymeric breccia, locally boulder-size

**HYLAND GROUP, YUSEZYU FORMATION:** brownish-grey sandstone and grit (pebbly sandstone), calcareous near top of unit, brown, grey, olive green and locally maroon shale and siltstone; locally quartz pebble conglomerate

**NEOPROTEROZOIC-CAMBRIAN ROCKS IN FOOTWALL OF DAWSON THRUST**  
**CSH** recessive, dark grey, black to brown weathering, thin bedded silty limestone

**CSs** moderately resistant, thin bedded, blue-grey siltstone and sandstone; brown weathering, dark grey-green bedded, weakly laminated siltstone and shale; local limestone near base of unit

**NEOPROTEROZOIC (EDIACARAN) TO LOWER CAMBRIAN**  
**PCIn** HYLAND GROUP, NARCHILLA FORMATION?: buff weathering, locally calcareous quartzite

**PCIn** HYLAND GROUP, NARCHILLA FORMATION: maroon and green shale and siltstone, locally dolomitized; locally grey, brown shale; locally green and white sandstone; yellowish-buff weathering dolomitic limestone

**NEOPROTEROZOIC (EDIACARAN)**  
**PHa** HYLAND GROUP, ALGAE FORMATION: light grey to yellowish-buff weathering dolomitic limestone and dolostone, variably dolomitized and variably silty/sandy; locally fine-grained, dolomitic sandstone; commonly graded and cross-bedded; minor grey and/or maroon shale; local debris flow units; generally limestone pebbles to cobble breccia and conglomerate; some polymeric breccia, locally boulder-size

**PSs** "STENBRATEN ASSEMBLAGE", UPPER: "upper mixed chertic sequence" - brown-weathering, grey shale and siltstone; minor sandstone and grit; rhythmically bedded, brown-weathering, grey limestone and shale; calcareous shale, thin-bedded, grey limestone (possibly correlative with Bluewater formation of Windermere Supergroup?)

**PSi** "STENBRATEN ASSEMBLAGE": brown-weathering, silty siliceous limestone

**PSq** "STENBRATEN ASSEMBLAGE": grey, medium-bedded quartzite

**PSc** "STENBRATEN ASSEMBLAGE", LOWER: carbonate minter - grey, buff, tan and orange weathering dolostone, dolomitic sandstone and limestone, commonly planar and/or cross laminated; calcareous shale and siltstone; maroon shale; carbonate-chert diamictite and conglomerate; pink weathering siltstone at base of unit (possibly correlative with General formation of Windermere Supergroup?)

**PHu** "NADALEEN ASSEMBLAGE", UPPER: orange-weathering, greenish-brown rhythmically bedded fine-grained sandstone, siltstone, mudstone; polymeric diamictite, conglomerate (carbonate and quartz pebbles to cobbles); maroon and green fine-grained sandstone-siltstone-mudstone

**PHl** "NADALEEN ASSEMBLAGE", LOWER: brownish-grey siltstone, mudstone, limestone; rhythmically thin to medium bedded mudstone and limestone; local pink-grey quartz sandstone and quartzite; calcareous grit and sandstone (possibly equivalent to Sheppard formation of Windermere Supergroup?)

**PHb** "NADALEEN ASSEMBLAGE", LOWER: black crystalline limestone

**PHq** "NADALEEN ASSEMBLAGE", LOWER: pink-grey, quartz arenite and grit; quartzite

**PHc** "NADALEEN ASSEMBLAGE", LOWER: grey limestone

**PHd** "NADALEEN ASSEMBLAGE", LOWER: diamictite, conglomerate (debris flow deposit); casts of carbonate and quartzite, pebbles to boulder; locally megafossils up to 100 m long; matrix locally sandy, grey limestone

**PHw** "NADALEEN ASSEMBLAGE", BASAL: black, grey and greenish quartz wacke, quartz-pebble conglomerate, siltstone, mudstone

### OTHER PROTEROZOIC UNITS NORTH OF KATHLEEN LAKES FAULT

**NEOPROTEROZOIC (CRYOGENIAN)**  
**PCg** RAPITAN GROUP: green and orange weathering, polymeric cobble conglomerate; clasts include: dolostone, limestone, shale and chert; fine to coarse-grained sandstone, siltstone

**PCc** RAPITAN GROUP: dark grey weathering limestone with discontinuous diagenetic black chert

**PCs** RAPITAN GROUP: red-brown to purple weathering, medium to thick bedded, medium-grained wacke, siltstone, carbonate, grit

**NEOPROTEROZOIC (TONIAN)**  
**PCp** PINGUICULA GROUP: chocolate to orange-brown weathering, crystalline laminated, medium to thick bedded dolostone; rusty-brown weathering, olive-green siltstone and shale; lesser maroon, buff and black shale

**PALEOPROTEROZOIC**  
**mPGL** GILLESPIE LAKE GROUP?: thinly laminated to thinly bedded, orange weathering, greenish-grey silty limestone, dolostone and calcareous silty shale

### SYMBOLS

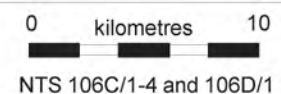
- geologic contacts (defined, approximate, inferred, covered).....
- fault: movement not known (defined, approximate, inferred, covered).....
- thrust fault (defined, approximate, inferred, covered).....
- normal fault (defined, approximate, inferred, covered).....
- anticline (upright, overturned).....
- syncline (upright, overturned).....
- bedding (S<sub>1</sub>; inclined, upright, overturned, vertical).....
- pressure-solution cleavage (S<sub>2</sub>; inclined, vertical).....
- spaced cleavage (S<sub>2</sub>; inclined, vertical).....
- intersection lineation (S<sub>1</sub>, S<sub>2</sub>) (vergence: m, s, z, unknown).....
- fold axis (vergence: m, s, z, unknown).....
- mineral lineation.....
- field station.....
- apparent dip of bedding in cross section.....
- apparent dip of cleavage in cross section.....

## ATAC RESOURCES LTD.

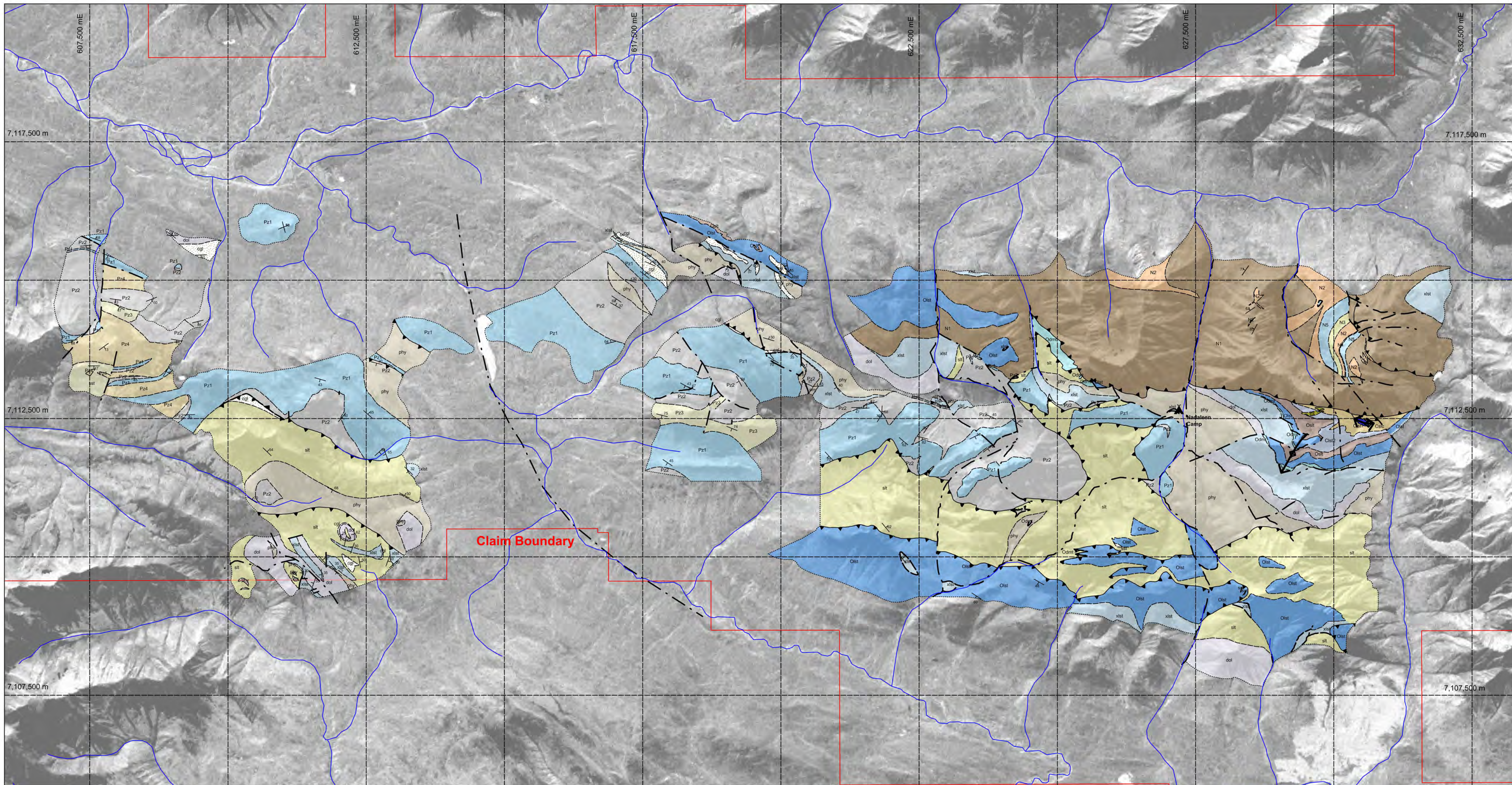
Figure 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GEOLOGICAL MAP OF THE RACKLA BELT**  
**YUKON GEOLOGICAL SURVEY**

Rackla Gold Property







### LEGEND

#### Igneous rocks of unknown age

**int** Gabbroic intrusions

#### Paleozoic Rocks - Equivalent to Earn Group and younger packages?

- Pz4** Thinly bedded, dull grey-brown weathering siltstone interbedded with shale and minor fossiliferous limestone.
- Pz3** Fossiliferous, medium- to coarse-grained, calcareous and moderately calcareous wackestone interbedded with shale, calcareous siltstone and minor chert.
- Pz2** Well bedded, carbonaceous and argillaceous chert interbedded with carbonaceous shale, siltstone, lesser amounts of chert pebble conglomerate and minor sandstone that may locally be calcareous.
- Pz1** Pale grey weathering, micritic limestone interbedded with thick debris packages and carbonaceous chert. Includes fossils of favosites, halictes (?) rugose coral, crinoids, brachiopods, bryozoans and possibly sponges.

- Contact - inferred
- Limit of mapping
- Fault - inferred
- Thrust fault - inferred
- Anticline

Geology compiled from mapping by Trans Territorial Consulting and Archer, Cathro & Associates (1981) Limited

#### Neoproterozoic - Cambrian of rocks. May be equivalent to Hyland Group, basal Selywn Basin, rocks.

- phy** Maroon and turquoise/green phyllites, shale and siltstones interbedded with rosy pink limestone (at the Sian Target), and/or invariably calcareous, green weathering sandstones.
- dol** Zebra textured dolostone locally with chert lenses overlies very dark grey/black, crystalline limestone.
- xlst** Very dark grey/black, coarsely crystalline limestone. Often associated with beds of polymict floatstone containing clasts of orange weathering dolostone, limestone, rounded quartz pebbles and minor shale, particularly near the base of the unit.
- silt** Green-grey siltstone and shale interbedded with fine- to medium-grained sandstone, lesser calcareous sandstone, minor limestone and limestone debris.
- cgl,sst** Well sorted, coarse grained, quartz granular sandstone to pebble conglomerate.
- Odm1** Limestone pebble to boulder conglomerate/debrite, predominantly matrix supported.
- Oist** Oisris limestone: Well bedded, tan and grey limestones and dolostone. Distinctive monolithic, intraclast rudstones are common, particularly in basal sections. Dolostone at top of unit at Oisris.
- Oslt** Oisris Maroon and green siltstone, finely laminated.
- Cist2** Conrad Calcilastics: Dark, crystalline lime mudstone, calc-arenites and lenses of limestone debris, with lesser siltstone and shale.
- Cslic** Conrad silicilastics: grey-green pyritic siltstone, mudstone with lesser grey sandstone. Poorly sorted, matrix supported quartz pebble conglomerate.
- Cist1** Conrad Limestone

#### Neo-proterozoic package of rocks that may be equivalent to Windermere Supergroup. NE Nadaleen area.

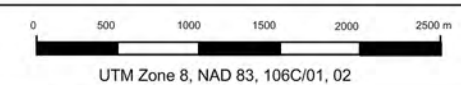
- N5** Finely laminated, grey-green limestone with 'beef' calcite and minor siltstone.
- N4** Grey weathering shale and minor siltstone.
- N3** Grey weathering, fine grained sandstone interbedded with siltstone.
- N2** Orange-brown weathering, well bedded, fine- to coarse-grained sandstone and quartz pebble conglomerate
- N1** Chlorite green siltstone and shale interbedded with orange weathering, coarse-granular quartz and chert pebble sandstone and conglomerate.

### ATAC RESOURCES LTD.

FIGURE 16  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

### NADALEEN TREND GEOLOGY

Rackla Gold Property



UTM Zone 8, NAD 83, 106C/01, 02

File: F\_16\_NadaleenTrendGeol\_AR

DATE: APRIL 2013



**ATAC RESOURCES LTD.**

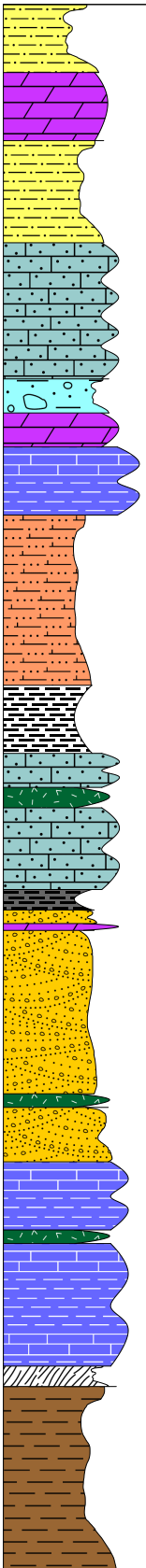
FIGURE 17  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**Proterozoic Stratigraphy**

Conrad, Osiris, Isis, Isis East Zones  
 Rackla Gold Property

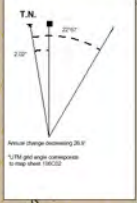
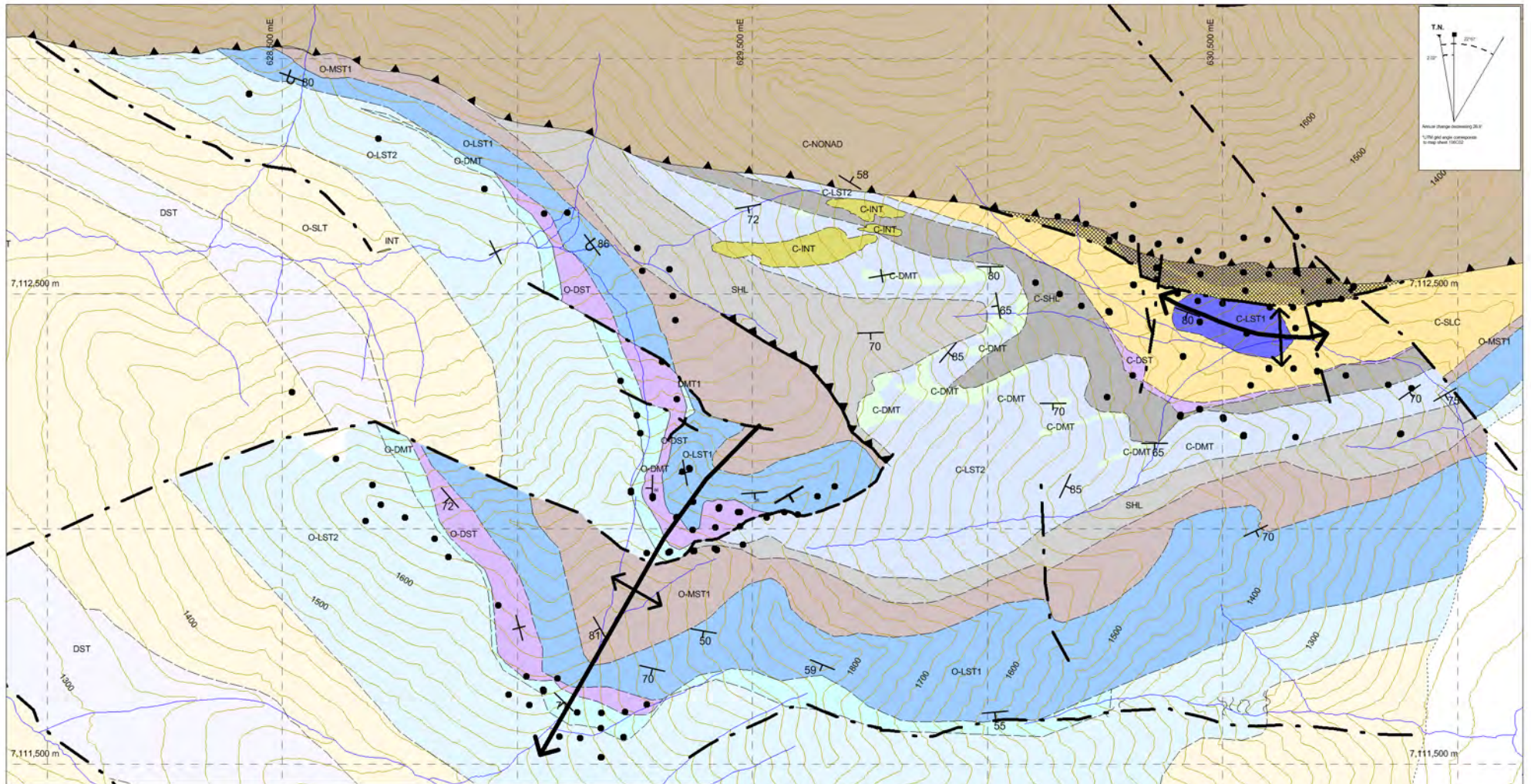
FILE: 2012/Rackla Gold/Figures/F\_17

DATE: APRIL 2013

Lithology	Gold	Informal Name	YGS Correlation	Description	
		Osiris siltstone	<b>PNi</b>	Maroon to grey micaceous siltstone and mudstone. Minor quartz arenite.	
		Isis dolostone	<b>PHa</b>	Buff-weathering, tan, massive to fine silty laminated dolostone. Sugary texture. In core the unit exhibits blocky broken texture and brecciation.	
		Osiris siltstone	<b>PSs</b>	Brown to grey siltstone.	
		Osiris gritty limestone		Tan to brown weathering, quartz gritty limestone to calcareous sandstone interbedded with siltstone.	
		Osiris debris-flow	<b>PSc</b>	Distinctive unsorted polymict conglomerate debrite dominated by carbonate clasts from pebble to >1 metre boulders. Fine-grained silty to lime mud matrix. Grey to tan weathering, massive to brecciated dolostone. Lower contact is gradational to interfingering. Thinly laminated lime mudstone and dolomudstone with quartz silty layers, weakly calcareous siltstone and distinctive lensoid intraclast rudstones ~1-2m.	
		Osiris dolostone			
		Osiris limestone			
			Osiris maroon siltstone	<b>PNu</b>	Maroon and green weathering siltstone.
			Grey shale		Grey to brown weathering shale and siltstone. May grade upwards into maroon siltstone.
			(Gabbro dikes) Conrad calciclastics (Debris-flow limestone lenses)	<b>PNi</b>	Med to very dark grey weathering, crystalline lime mudstones, calc-arenites and lesser siltstone and shale with lenses of light grey weathering debrites with clasts up to > 1m. Debrite clasts are dominantly limestone. Unit is intruded by gabbro dikes.
			(Black shale with ls lenses) Conrad dolostone		
			Conrad Siliciclastics (Gabbro dikes)		
			(Gabbro dikes) Conrad Limestone	<b>PNc</b>	Light grey weathering, massive to silty laminated limestone, lime mudstone, packstone, wackestone with cone-in-cone and beef calcite lenses and wispy fine-quartz sandstone layers.
			Nadaleen Fault Zone		Nadaleen Fault Zone: zone of shearing up to 40 m wide, dips steeply North.
		Nonad mudstone	<b>PNu</b>	Distinctive rusty weathering sequence of light teal-green to maroon and brown mudstone with minor interbedded quartz pebble conglomerate and quartz sandstone with carbonate cement.	

Not to scale





**LEGEND**

- |  |   |
|--|---|
| Mafic to intermediate intrusion C-INT                                    | Grey Shale  |
| Dolostone DST  | Carbonate Debrites C-DMT  |
| Siltstone and shale O-SLT  | Calciclastic rocks C-LST2 Dark, crystalline limestone with carbonate debrites               |
| Gritty, platy weathering limestone O-LST2                                | Conrad Dolostone C-DST  |
| Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size | Black shale C-SHL   |
| Osiris Dolostone O-DST   | Conrad Siliciclastics C-SLC Pyritic siltstone, sandstone, poorly sorted pebble conglomerate |
| Osiris silty limestone O-LST1  | Conrad Limestone C-LST1   |
| Maroon and green siltstone O-MST1  | NONAD Mudstone with minor conglomerate and sandstone  |
| Thrust Fault   | Nadaleen Fault Zone   |
| Fault  | Diamond Drill Hole Collar   |
| Contact - inferred   |   |
| Anticline  |   |

**ATAC RESOURCES LTD.**

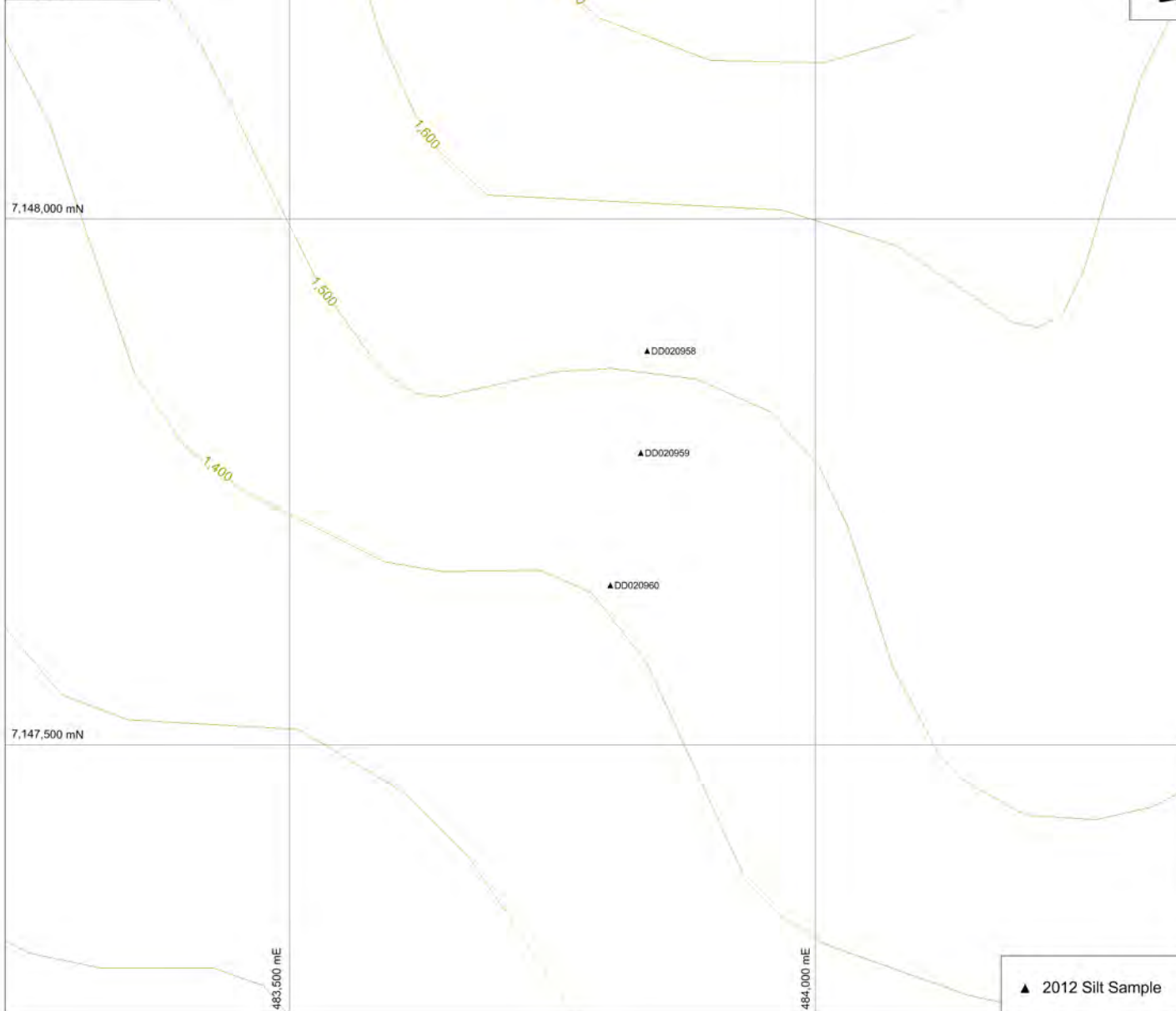
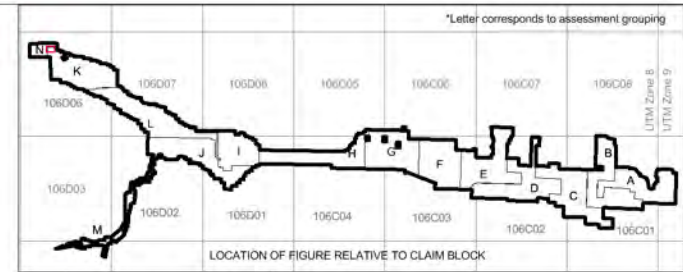
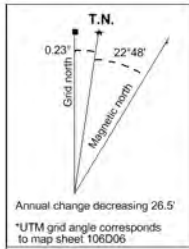
FIGURE 18  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**OSIRIS AREA GEOLOGY**

Rackla Gold Property







▲ 2012 Silt Sample

**ATAC RESOURCES LTD.**

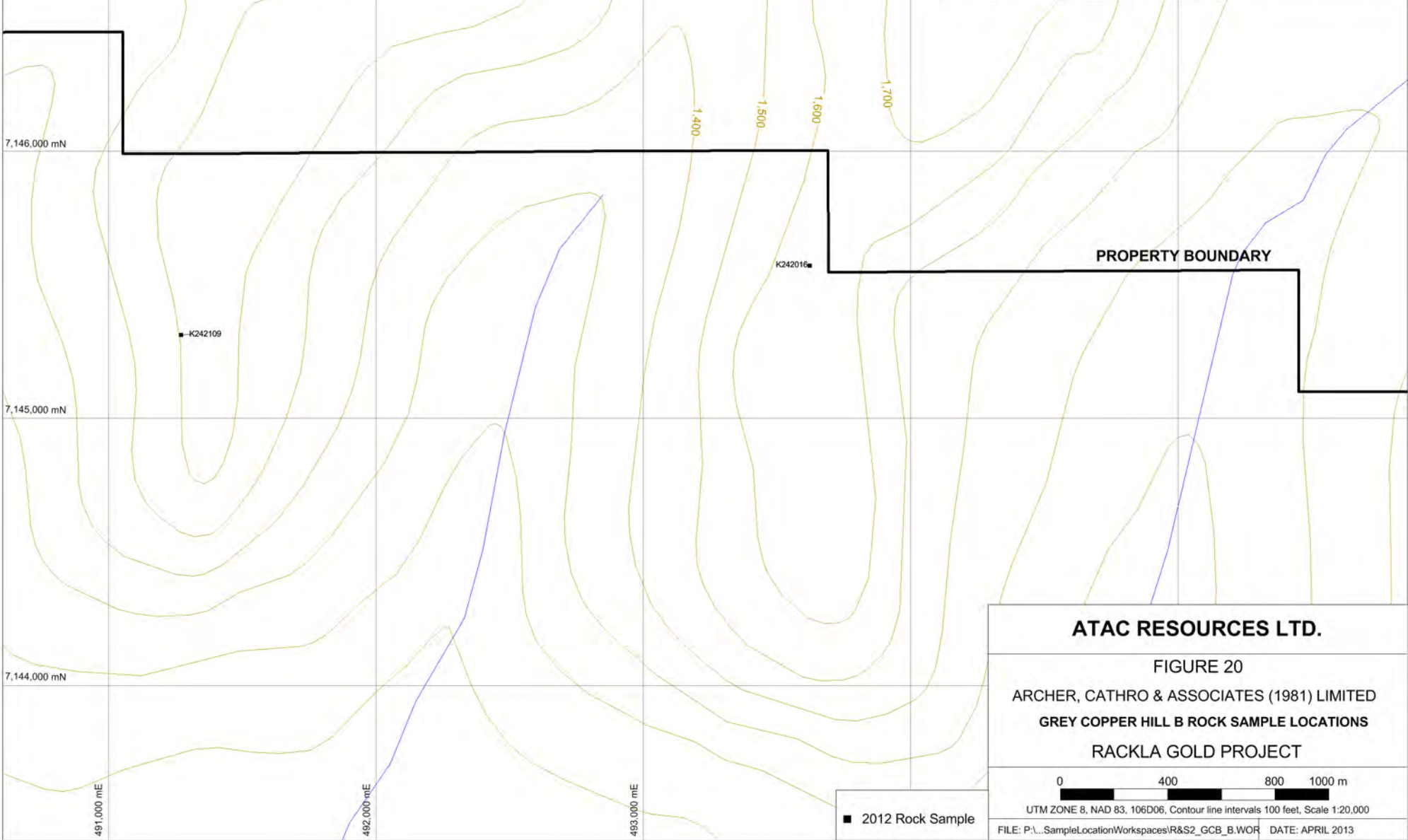
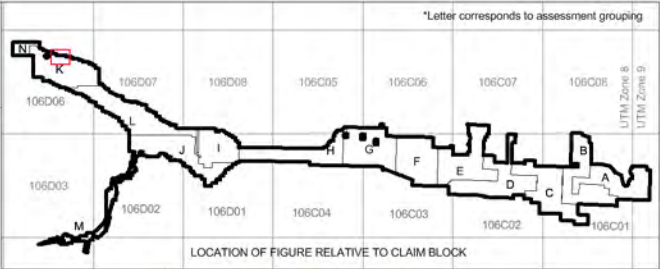
**FIGURE 19**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GREY COPPER HILL A SILT SAMPLE LOCATIONS**  
 RACKLA GOLD PROJECT

0 200 400 m  
 UTM ZONE 8, NAD 83, 106D06, Contour line intervals 100 feet, Scale 1:6,000

FILE: P:\...SampleLocationWorkspaces\RS1\_GCH\_A.WOR      DATE: APRIL 2013

T.N.  
 0.23°  
 Grid north  
 22°48'  
 Magnetic north  
 Annual change decreasing 26.5'  
 \*UTM grid angle corresponds to map sheet 106D06



**ATAC RESOURCES LTD.**

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

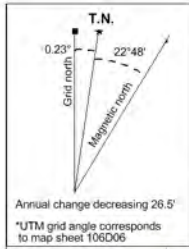
GREY COPPER HILL B ROCK SAMPLE LOCATIONS

RACKLA GOLD PROJECT

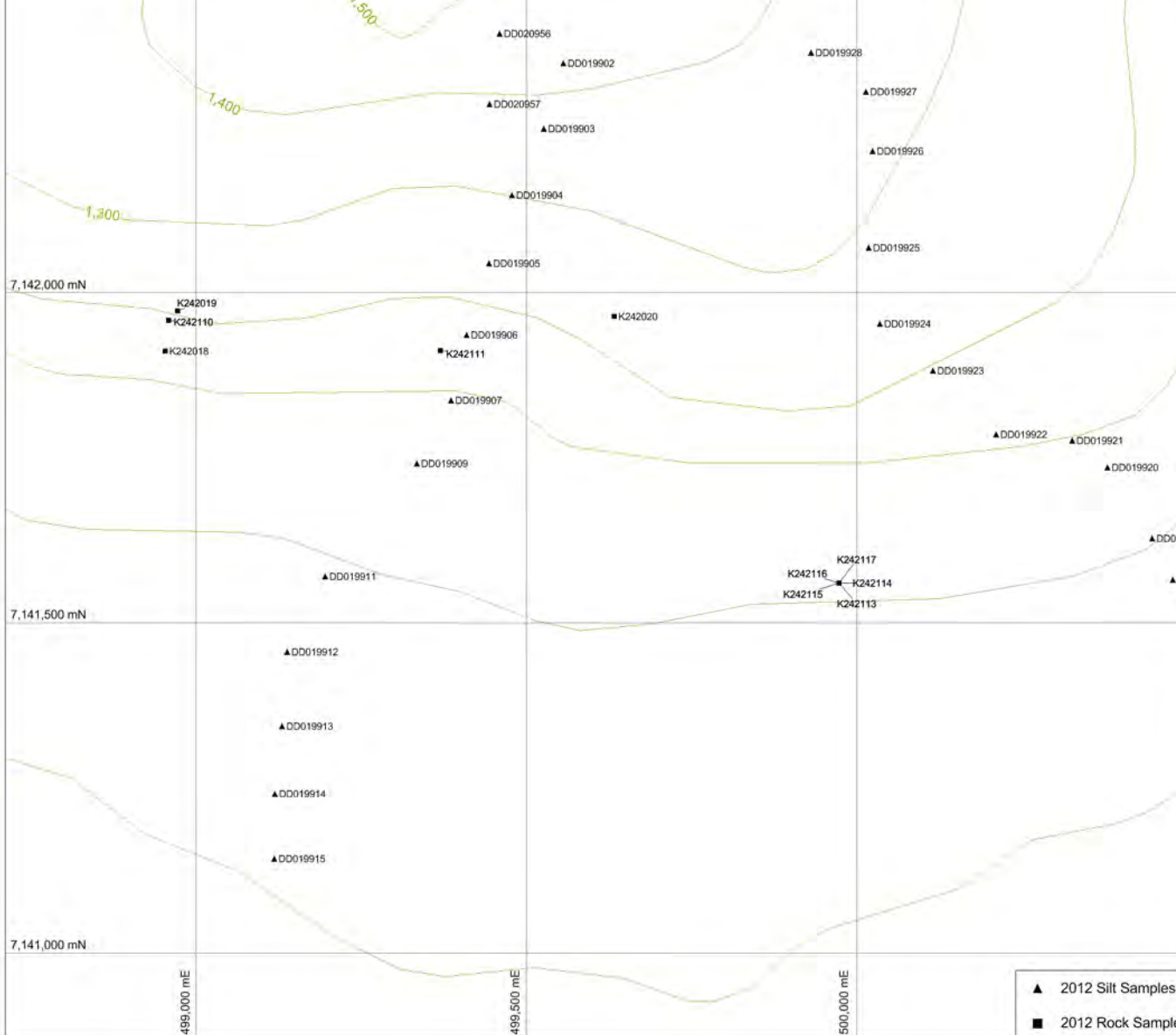
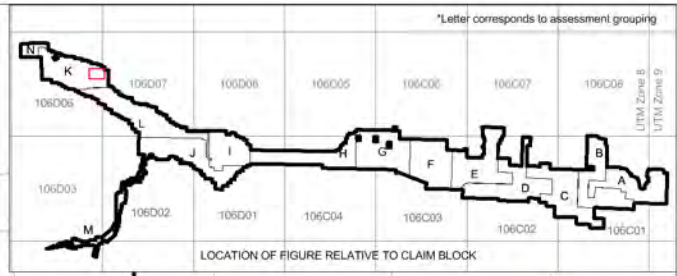
0 400 800 1000 m

UTM ZONE 8, NAD 83, 106D06, Contour line intervals 100 feet, Scale 1:20,000

FILE: P:\...SampleLocationWorkspaces\R&S2\_GCB\_B.WOR DATE: APRIL 2013



Annual change decreasing 26.5'  
 \*UTM grid angle corresponds to map sheet 106D06



**ATAC RESOURCES LTD.**

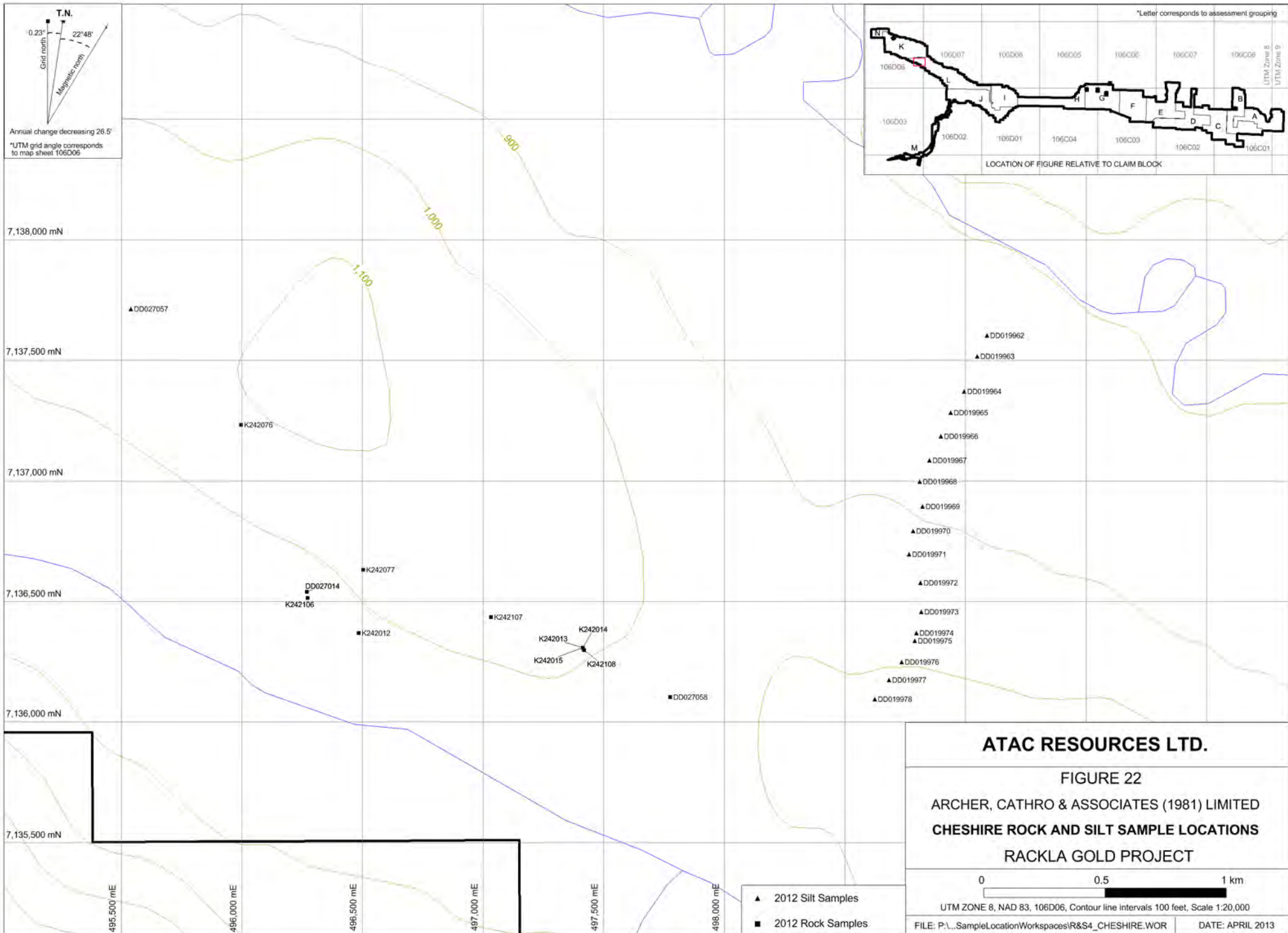
**FIGURE 21**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**GREY COPPER HILL C ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0                      250                      500 m

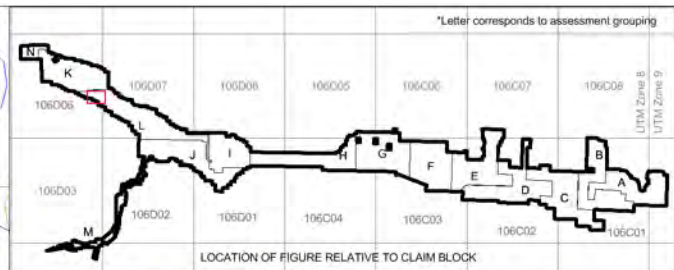
UTM ZONE 8, NAD 83, 106D06, Contour line intervals 100 feet, Scale 1:10,000

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- ▲ 2012 Silt Samples
- 2012 Rock Samples

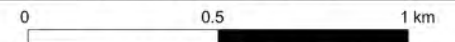


T.N.  
 0.23' Grid north  
 22°48' Magnetic north  
 Annual change decreasing 26.5'  
 \*UTM grid angle corresponds to map sheet 106D06



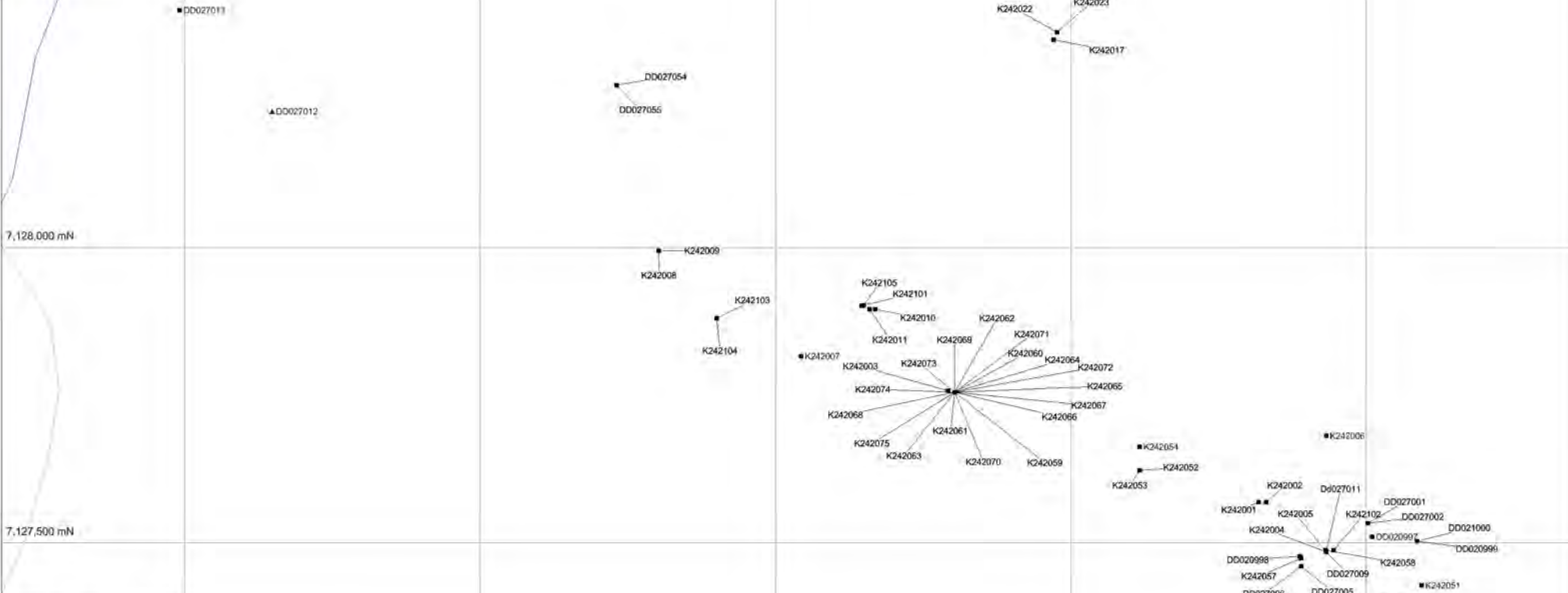
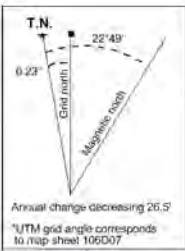
**ATAC RESOURCES LTD.**

**FIGURE 22**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**CHESHIRE ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**



UTM ZONE 8, NAD 83, 106D06, Contour line intervals 100 feet, Scale 1:20,000



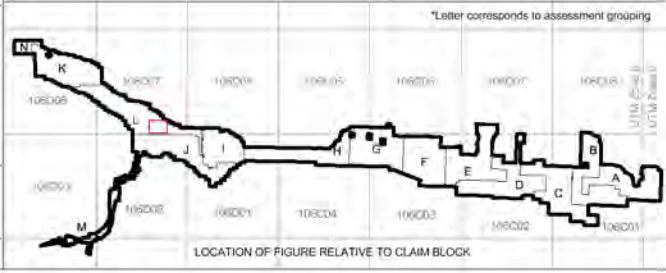


- ▲ 2012 Silt Samples
- 2012 Rock Samples

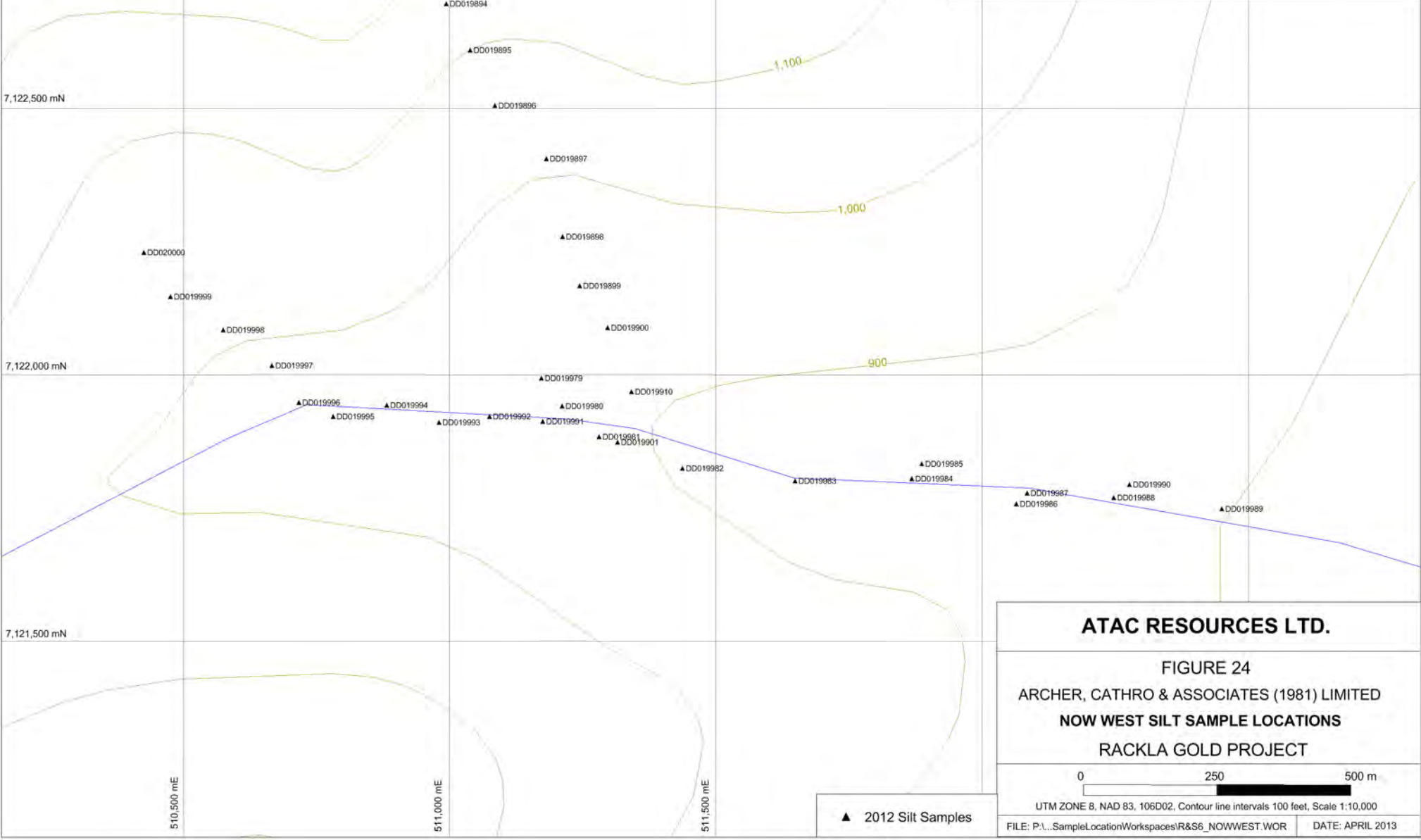
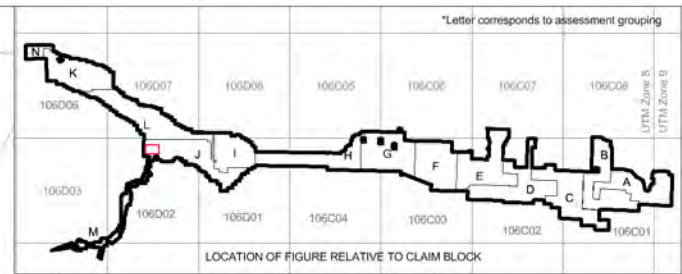
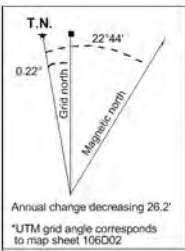
**ATAC RESOURCES LTD.**

**FIGURE 23**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**OCELOT ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0 250 500 m  
 UTM ZONE 8, NAD 83, 106D07, Contour line intervals 100 feet, Scale 1:10,000







**ATAC RESOURCES LTD.**

**FIGURE 24**

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**NOW WEST SILT SAMPLE LOCATIONS**

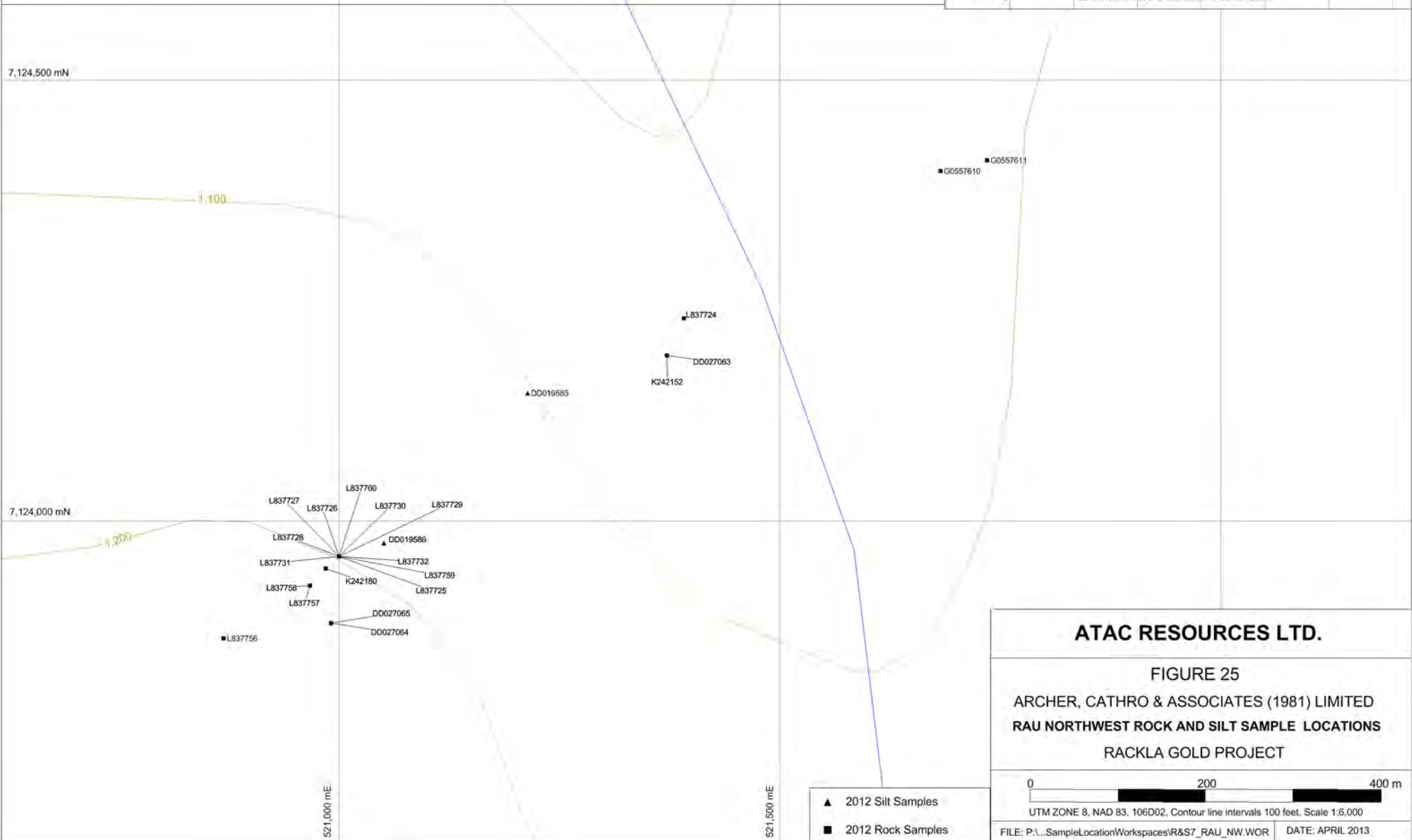
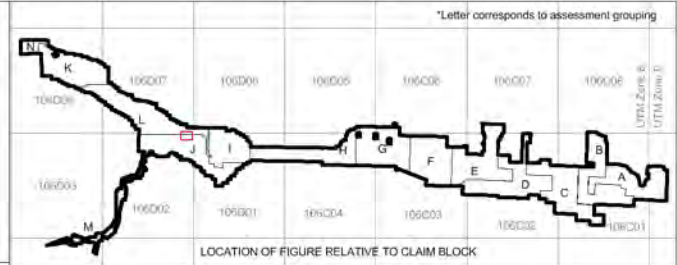
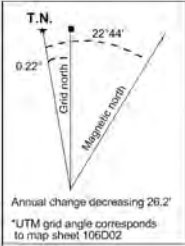
**RACKLA GOLD PROJECT**

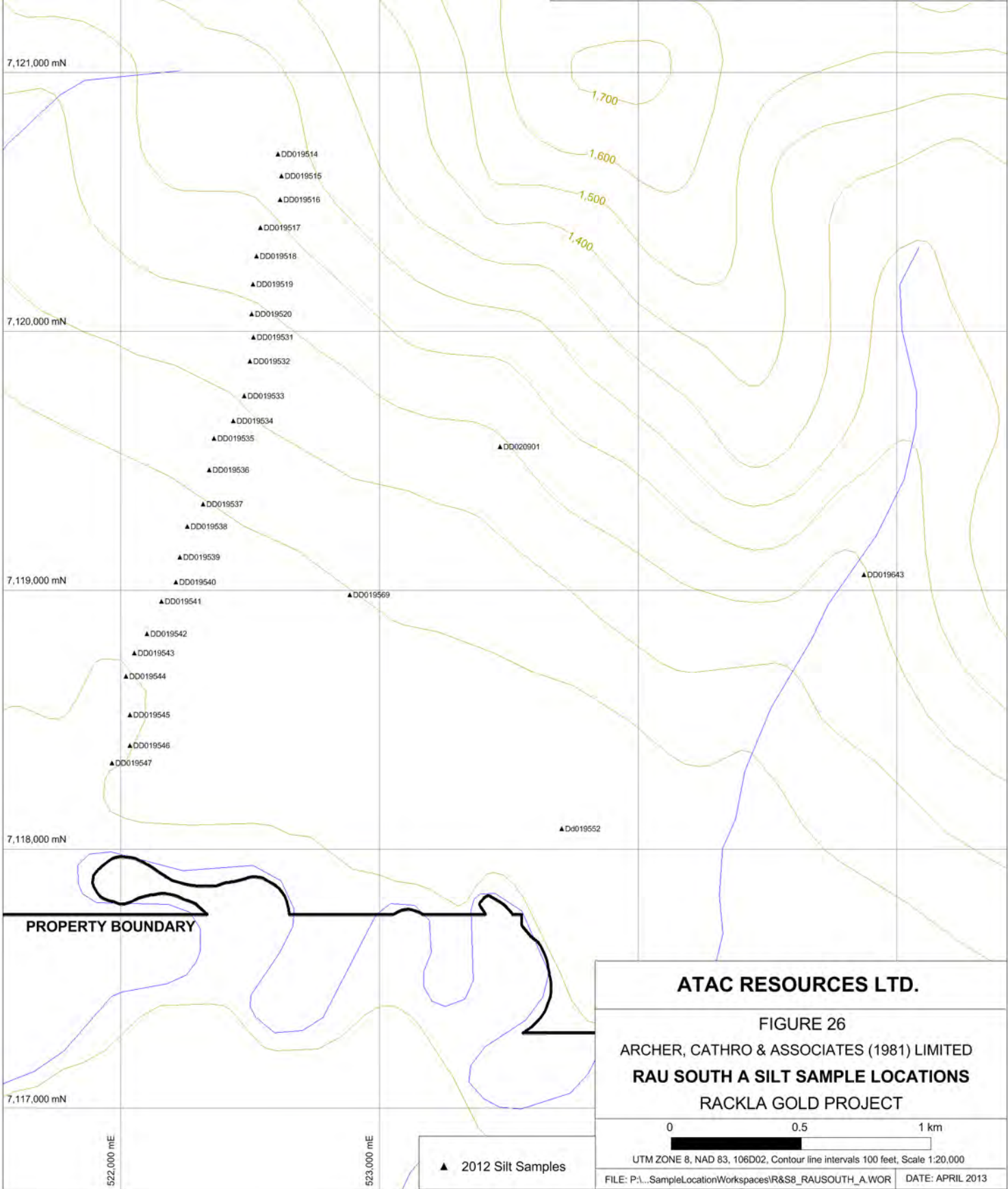
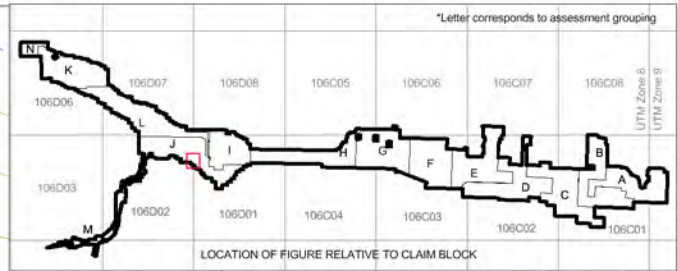
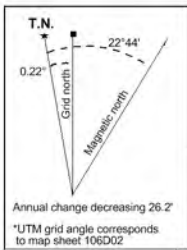
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UTM ZONE 8, NAD 83, 106D02, Contour line intervals 100 feet, Scale 1:10,000

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▲ 2012 Silt Samples





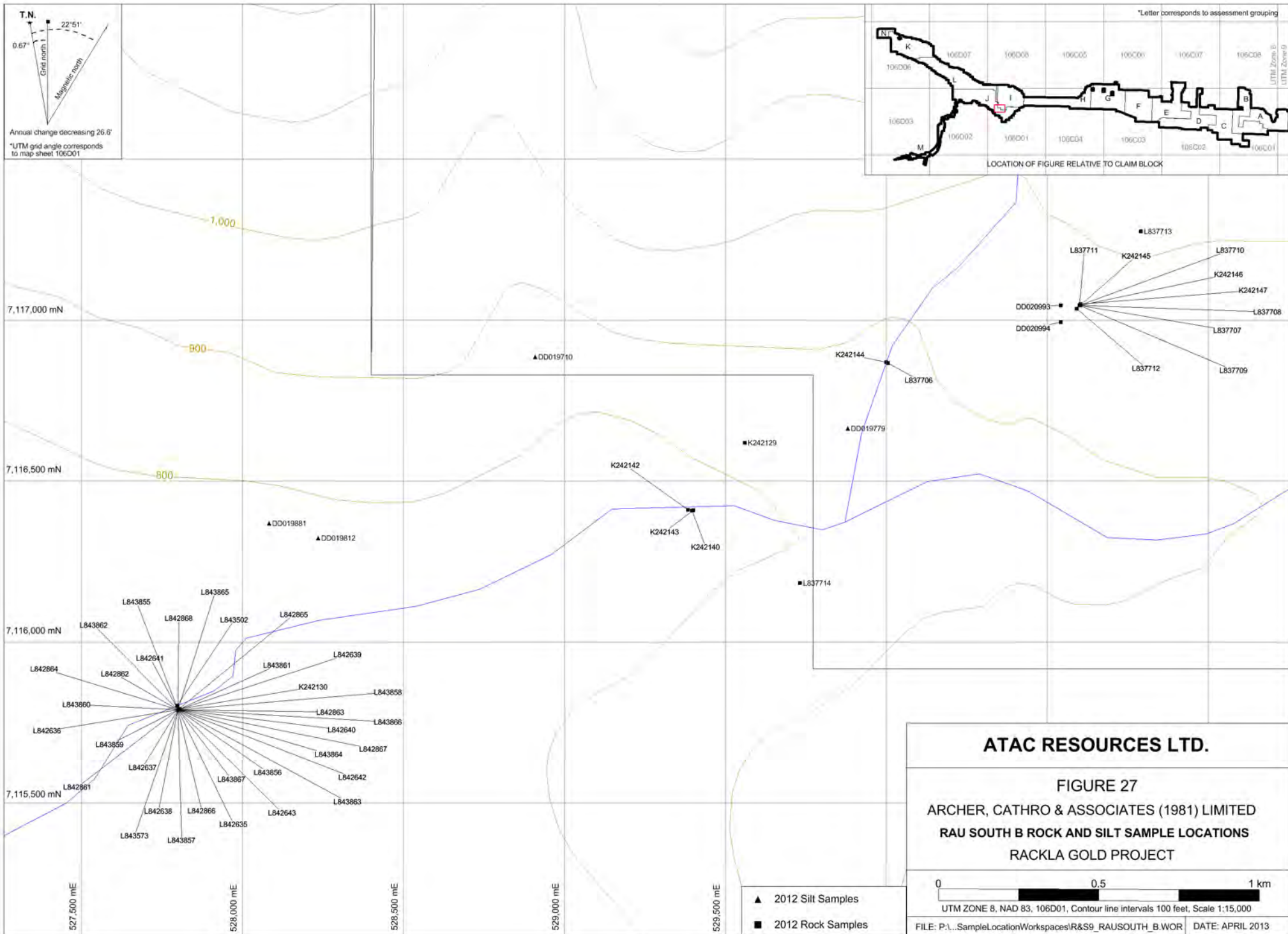
**ATAC RESOURCES LTD.**

FIGURE 26  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**RAU SOUTH A SILT SAMPLE LOCATIONS**  
RACKLA GOLD PROJECT

0 0.5 1 km

UTM ZONE 8, NAD 83, 106D02, Contour line intervals 100 feet, Scale 1:20,000

FILE: P:\...SampleLocationWorkspaces\R&S8\_RAUSOUTH\_A\_WOR DATE: APRIL 2013

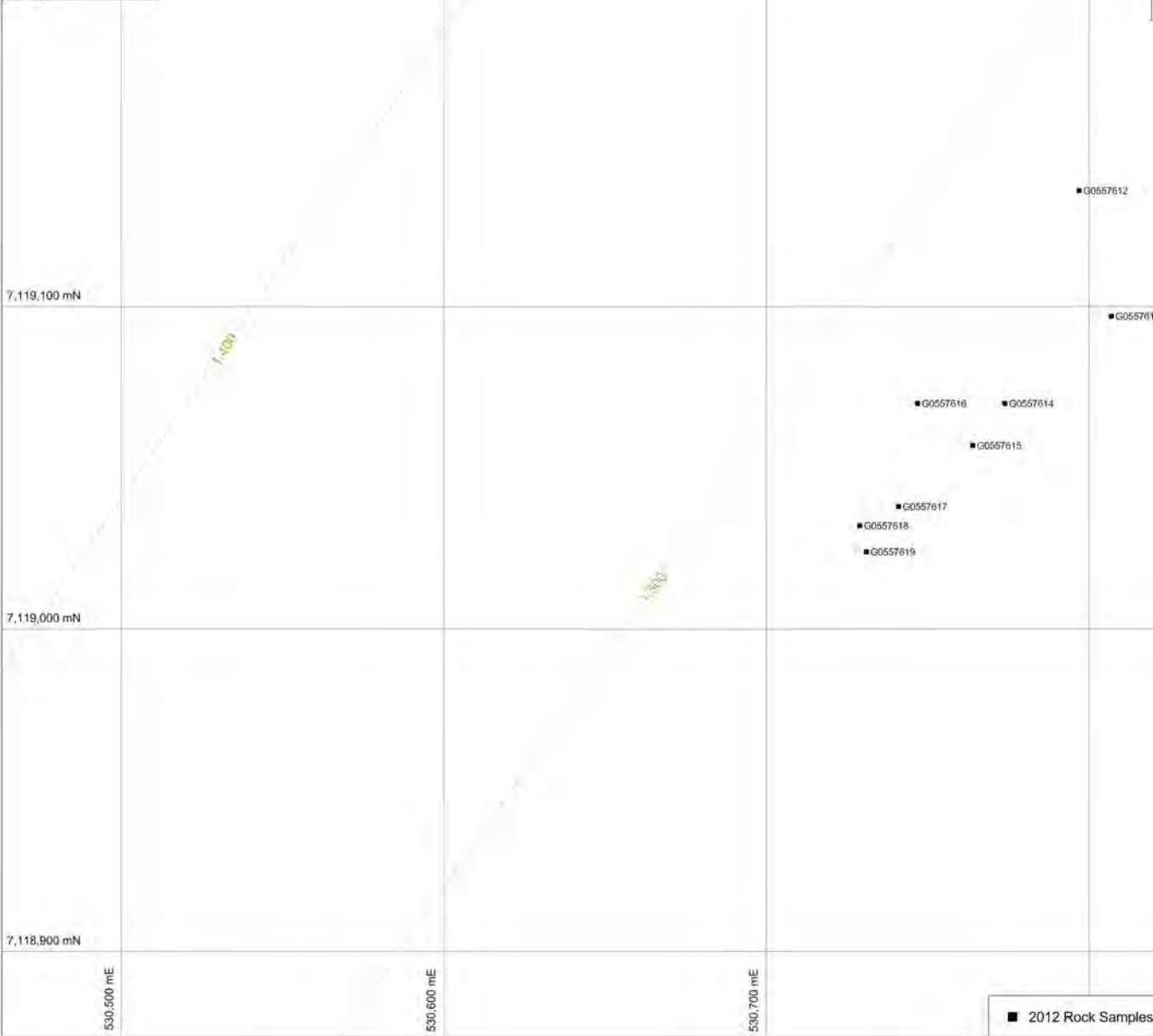
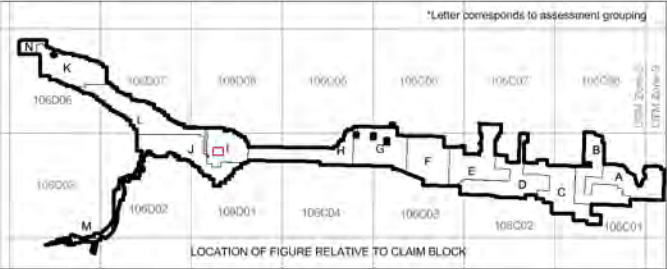
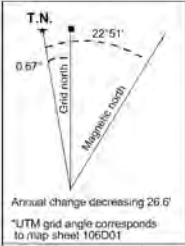


**ATAC RESOURCES LTD.**

**FIGURE 27**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**RAU SOUTH B ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0 0.5 1 km  
 UTM ZONE 8, NAD 83, 106D01, Contour line intervals 100 feet, Scale 1:15,000





■ 2012 Rock Samples

**ATAC RESOURCES LTD.**

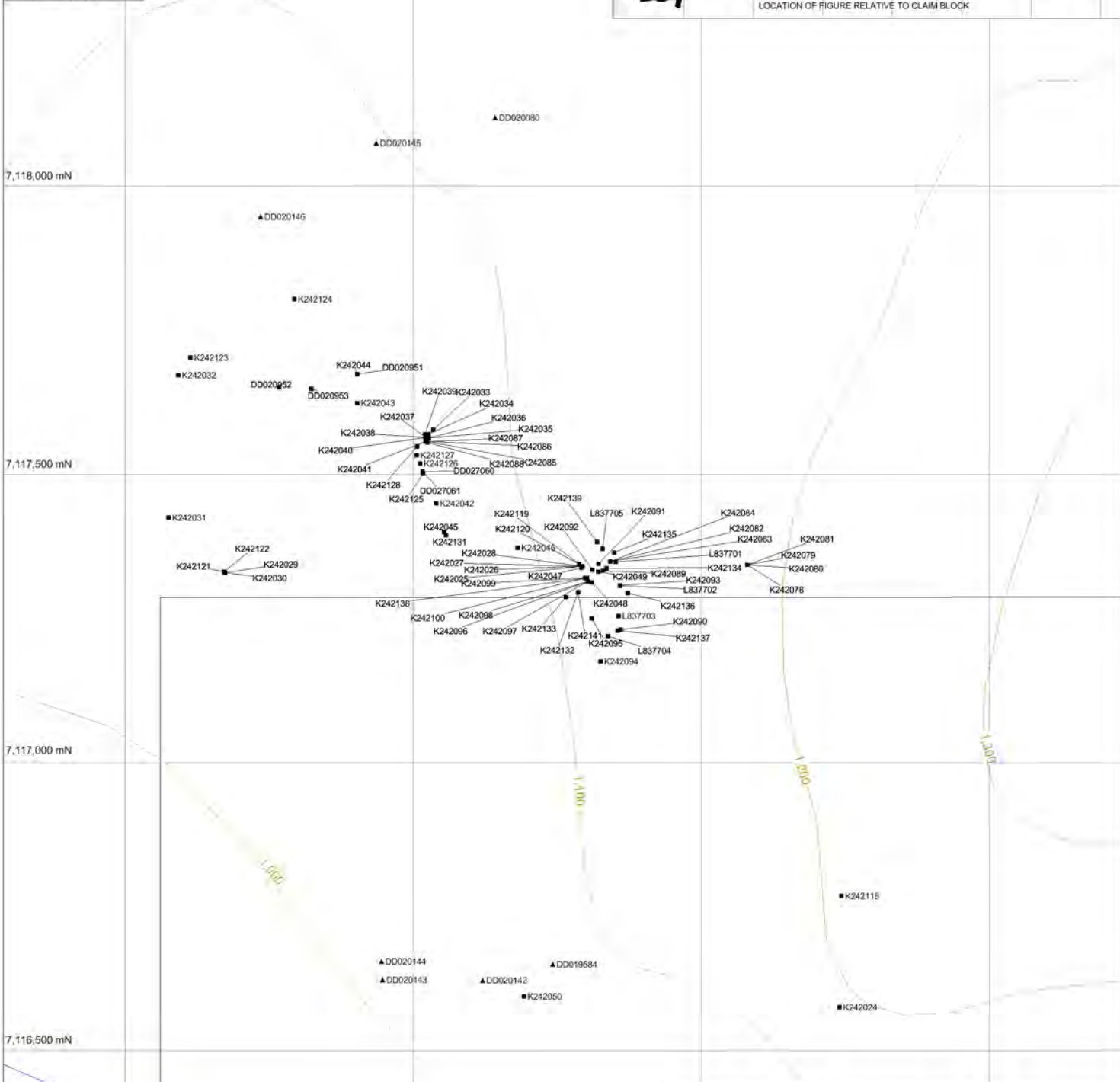
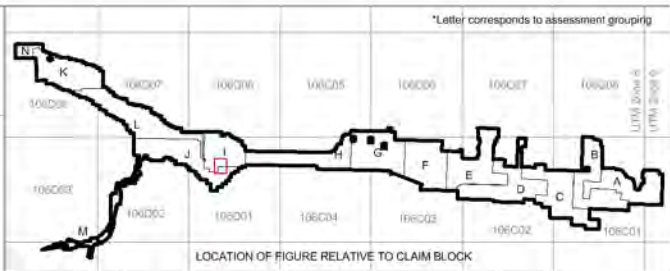
FIGURE 28  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**FLAT TOP ROCK SAMPLE LOCATIONS**  
 RACKLA GOLD PROJECT

0                      50                      100 m

UTM ZONE 8, NAD 83, 106D01, Contour line intervals 100 feet, Scale 1:2,000

FILE: P:\...SampleLocationWorkspaces\RS10\_FLATTOP.WOR      DATE: APRIL 2013

T.N.  
 0.67'  $\angle$  22°51'  
 Grid north  $\angle$  Magnetic north  
 Annual change decreasing 26.6'  
 \*UTM grid angle corresponds to map sheet 106D01



**ATAC RESOURCES LTD.**

**FIGURE 29**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**KATHY ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

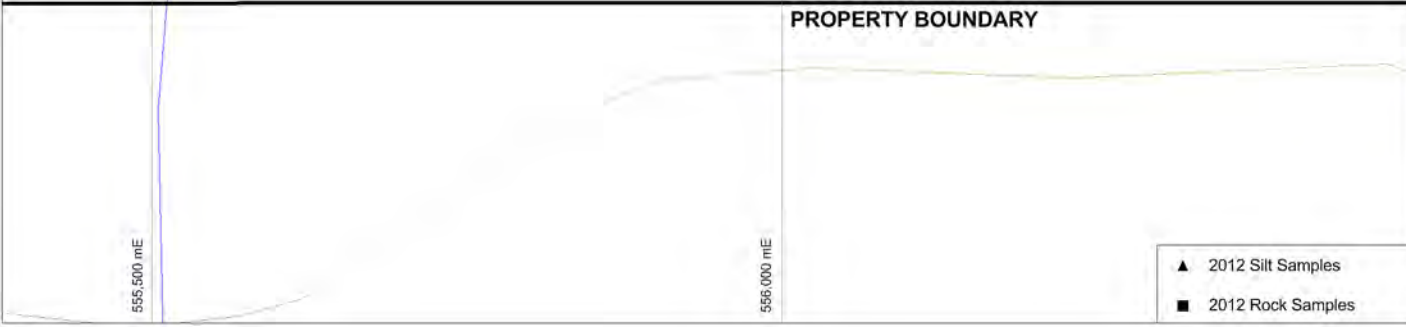
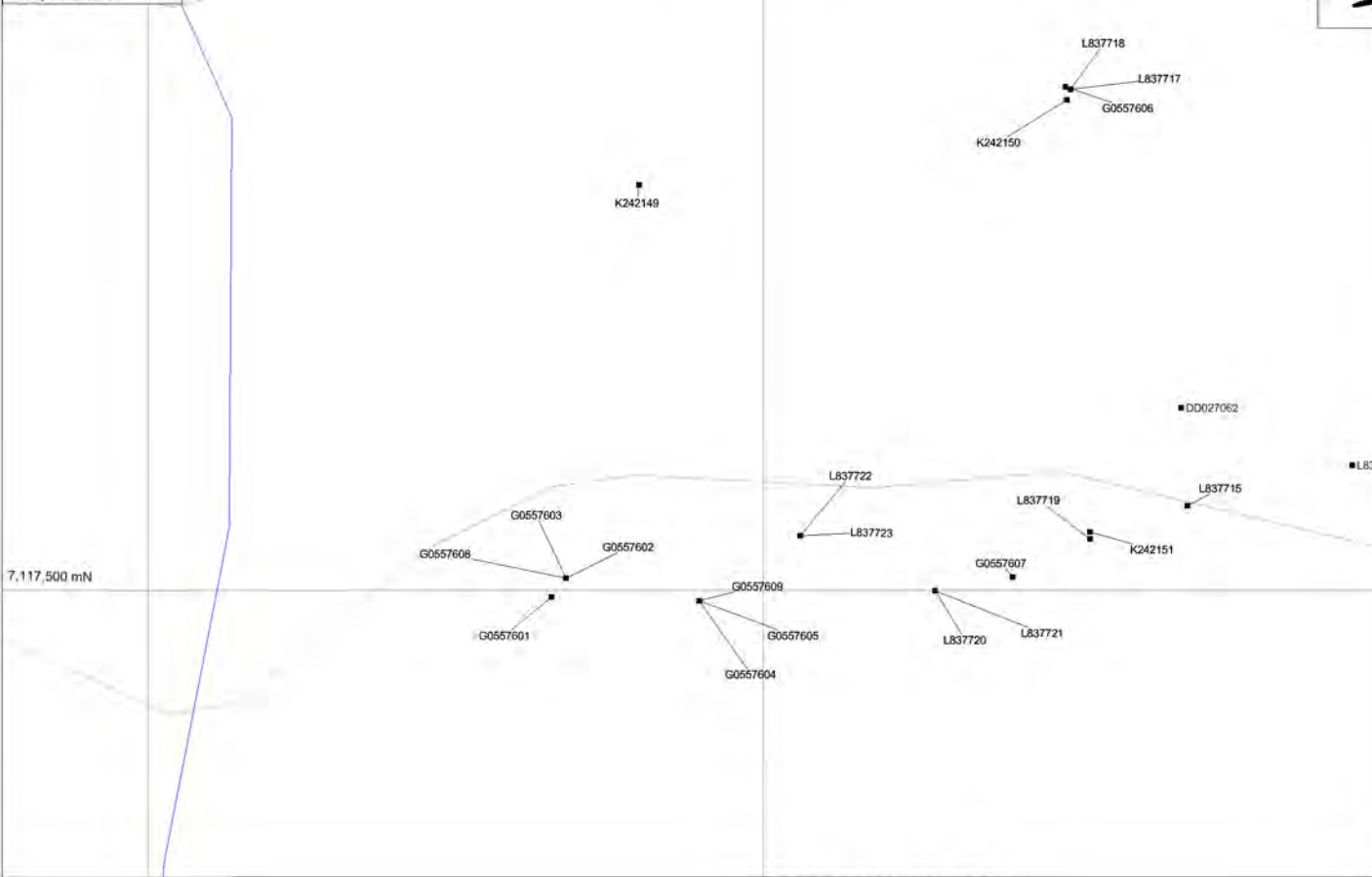
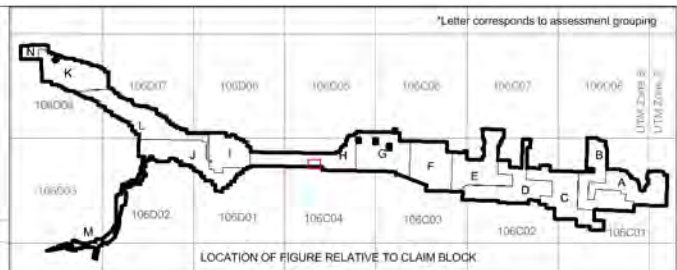
0 250 500 m

UTM ZONE 8, NAD 83, 106D01, Contour line intervals 100 feet, Scale 1:10,000

FILE: P:\L\_SampleLocationWorkspaces\R&S11\_KATHY.WOR DATE: APRIL 2013

- ▲ 2012 Silt Samples
- 2012 Rock Samples

T.N.  
 1.12" Grid north 1 22'50" Magnetic (NSM)  
 Annual change decreasing 26.7"  
 \*UTM grid angle corresponds to map sheet 106C04



**ATAC RESOURCES LTD.**

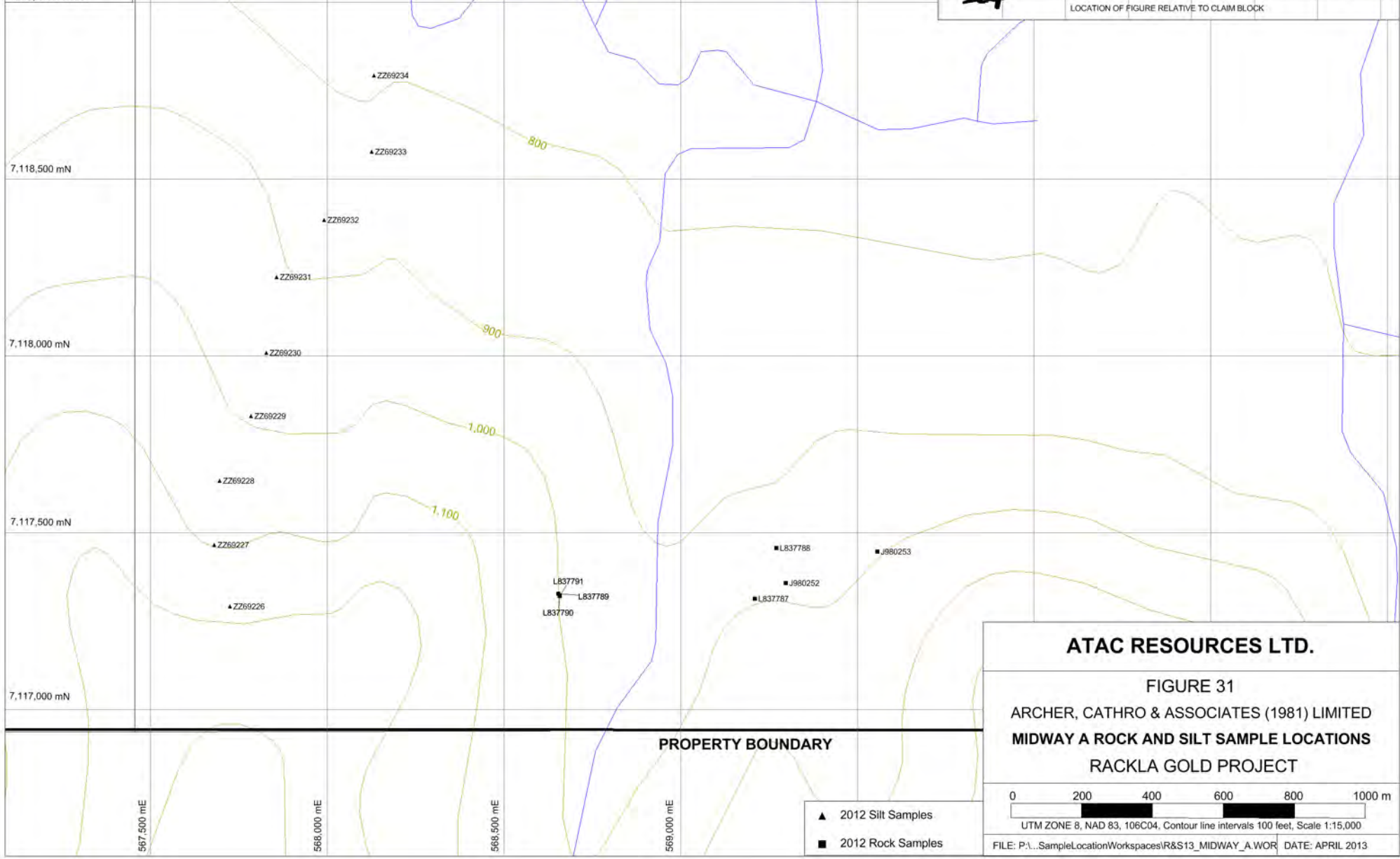
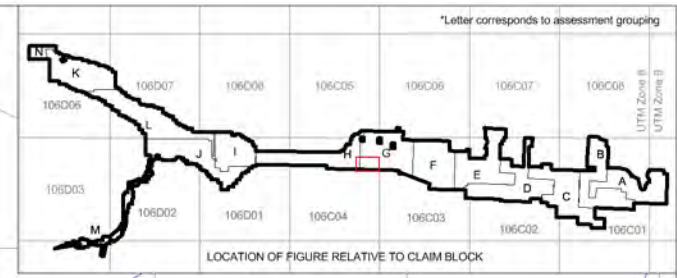
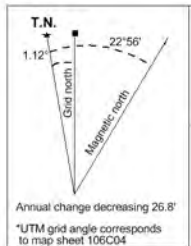
**FIGURE 30**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**EDINA ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0 250 500 m

UTM ZONE 8, NAD 83, 106C04, Contour line intervals 100 feet, Scale 1:6,000

FILE: P:\...SampleLocationWorkspaces\R&S12\_EDINA.WOR DATE: APRIL 2013

- ▲ 2012 Silt Samples
- 2012 Rock Samples



**ATAC RESOURCES LTD.**

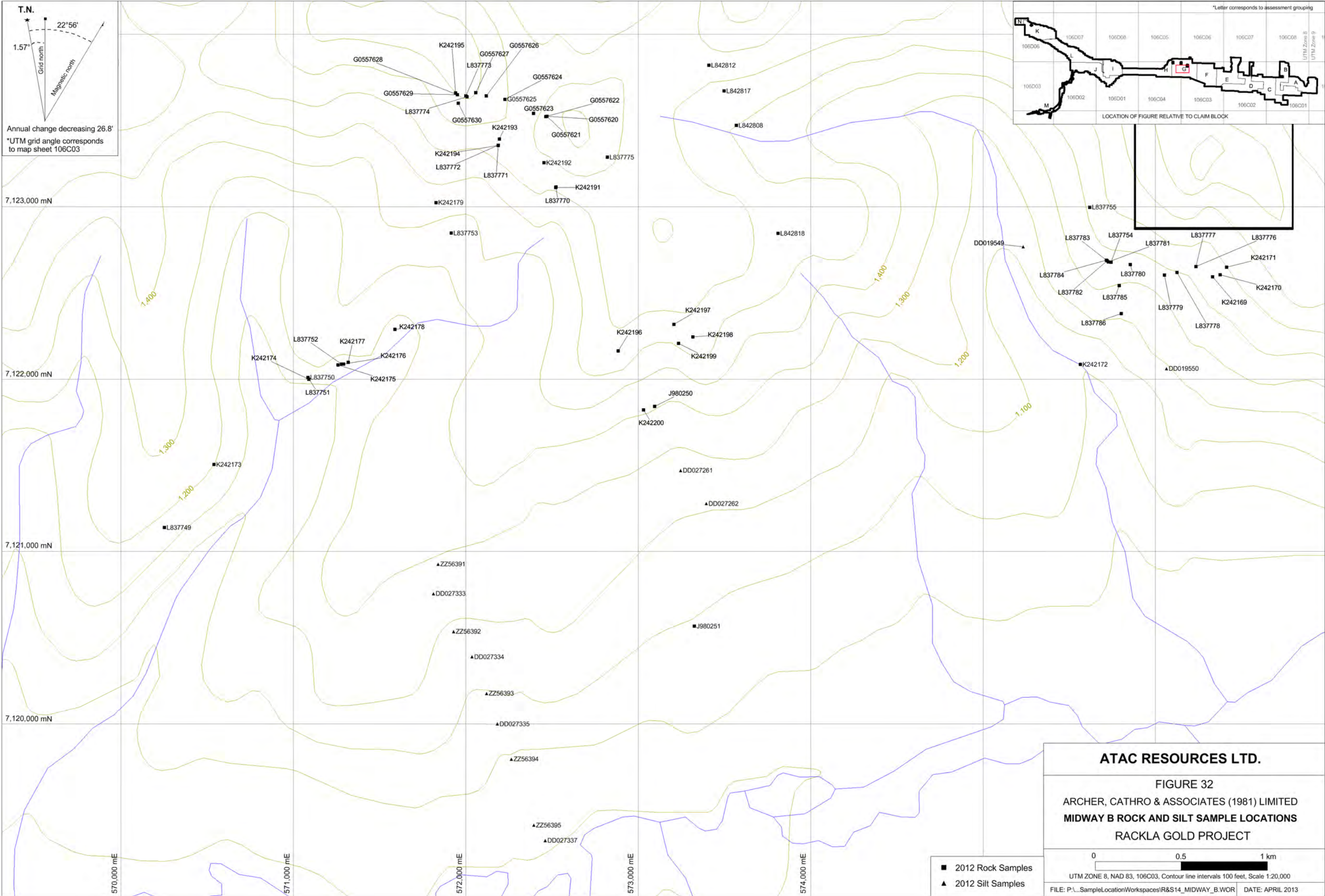
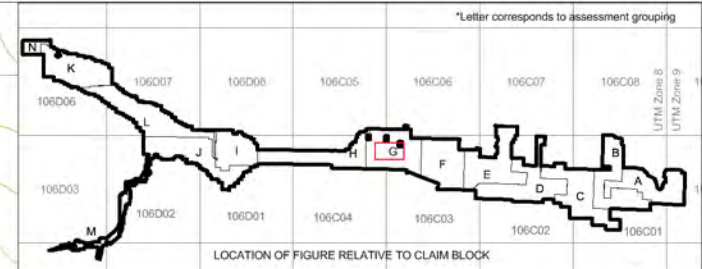
**FIGURE 31**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**MIDWAY A ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0 200 400 600 800 1000 m  
UTM ZONE 8, NAD 83, 106C04. Contour line intervals 100 feet, Scale 1:15,000

FILE: P:\...SampleLocationWorkspaces\R&S13\_MIDWAY\_A\_WOR DATE: APRIL 2013



T.N.  
 1.57°  
 22°56'  
 Grid north  
 Magnetic north  
 Annual change decreasing 26.8'  
 \*UTM grid angle corresponds to map sheet 106C03



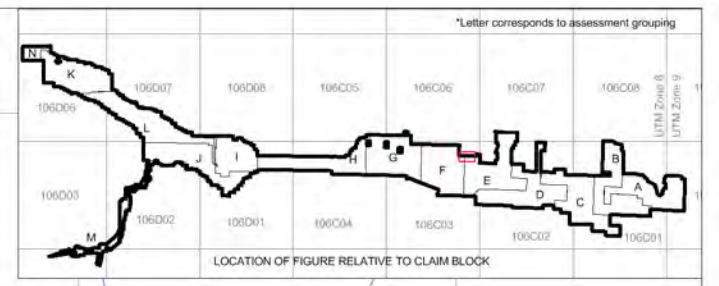
**ATAC RESOURCES LTD.**

**FIGURE 32**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**MIDWAY B ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

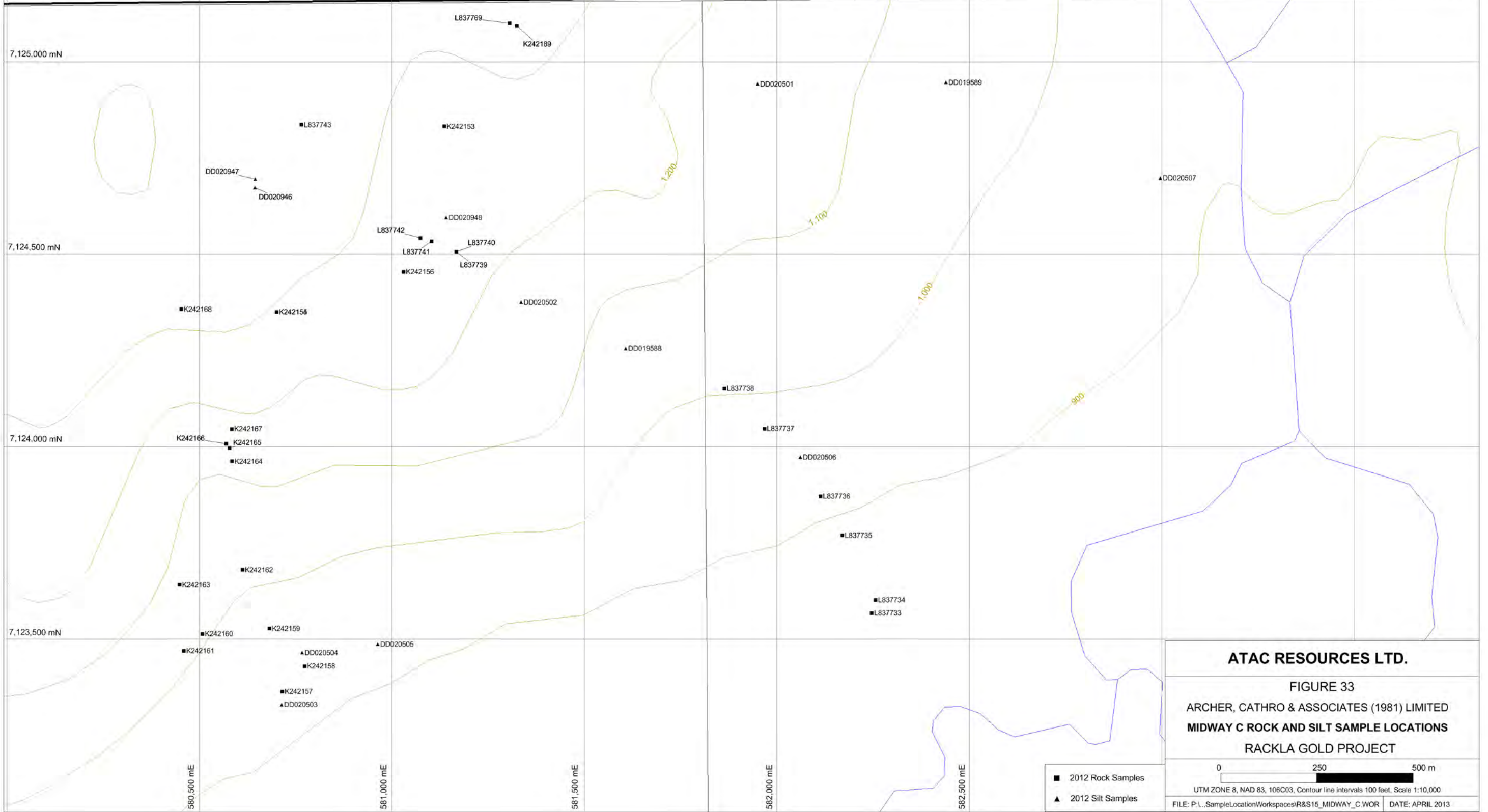
0 0.5 1 km  
 UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet, Scale 1:20,000  
 FILE: P:\...SampleLocationWorkspaces\R&S14\_MIDWAY\_B.WOR DATE: APRIL 2013



T.N.  
 1.57°  
 Grid north  
 22°57'  
 Magnetic north  
 Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C03



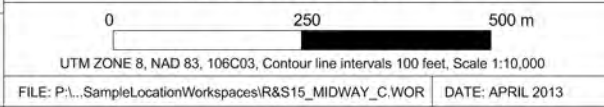
**PROPERTY BOUNDARY**



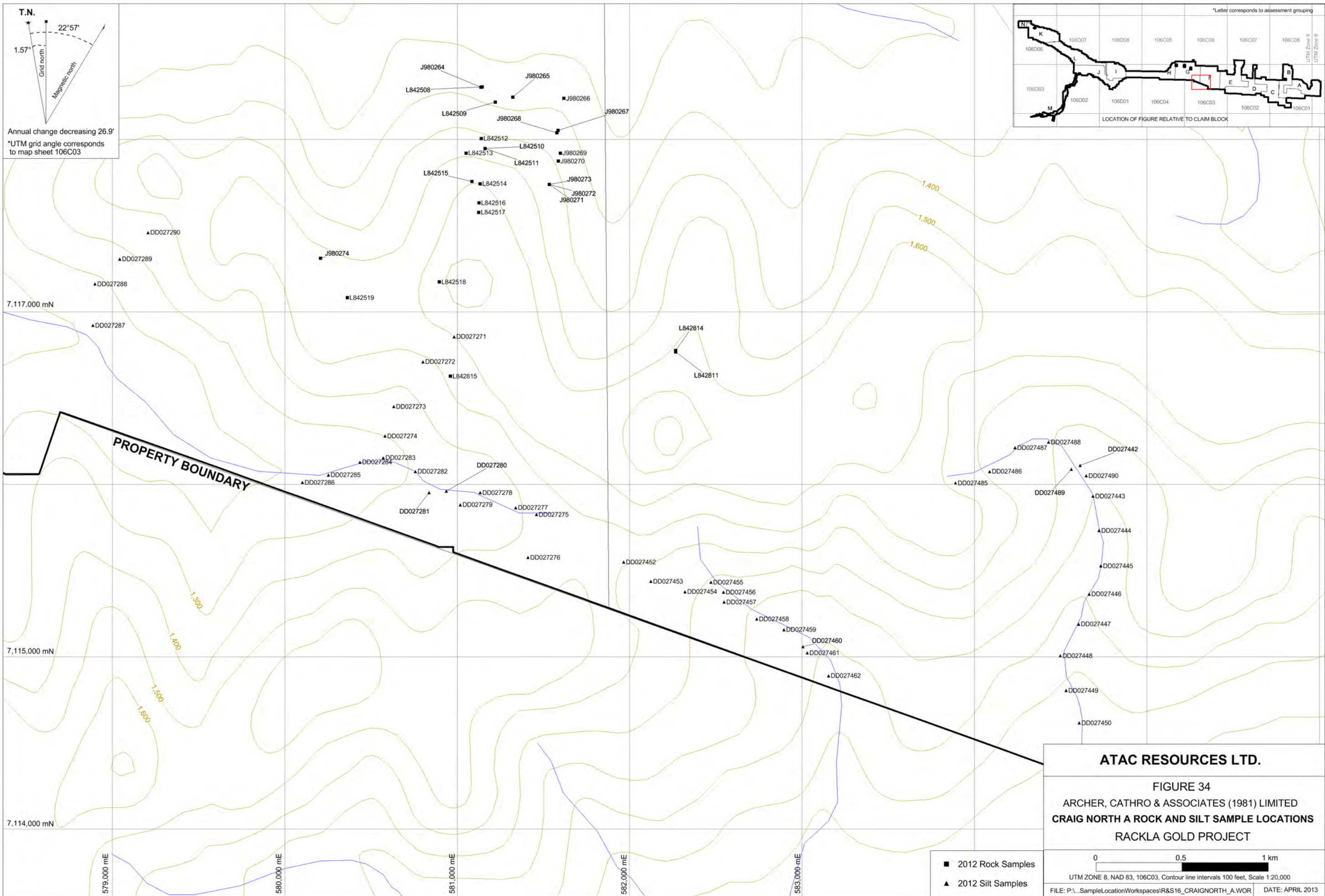
**ATAC RESOURCES LTD.**

FIGURE 33  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 MIDWAY C ROCK AND SILT SAMPLE LOCATIONS  
 RACKLA GOLD PROJECT

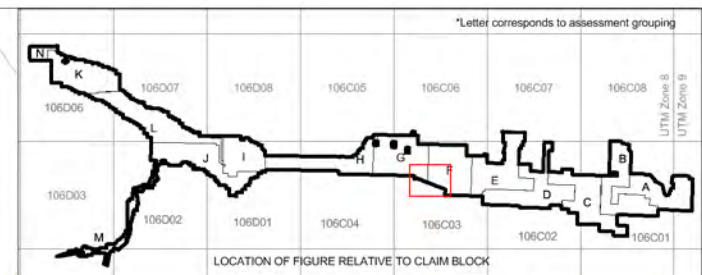
- 2012 Rock Samples
- ▲ 2012 Silt Samples







T.N.  
 1.57°  
 Grid north  
 22°57'  
 Magnetic north  
 Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C03



**PROPERTY BOUNDARY**

**ATAC RESOURCES LTD.**

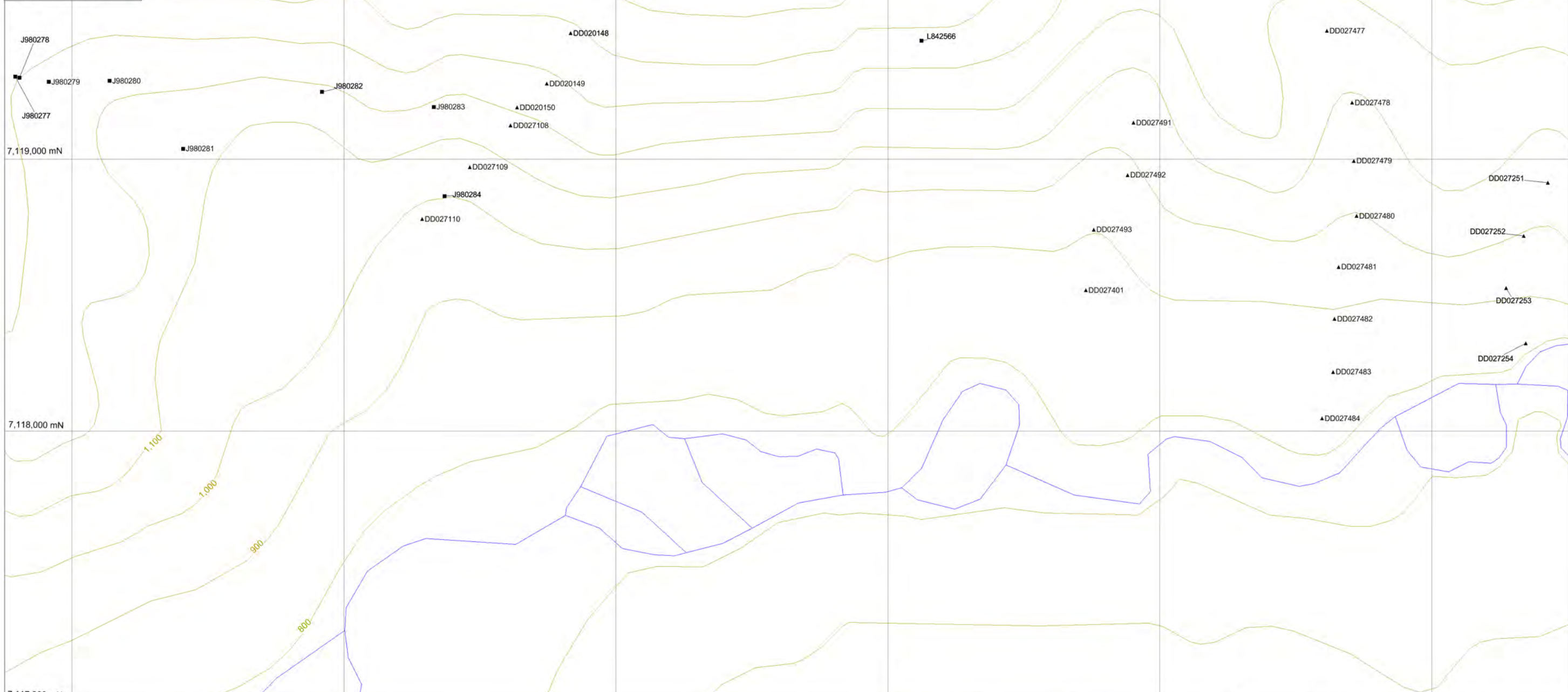
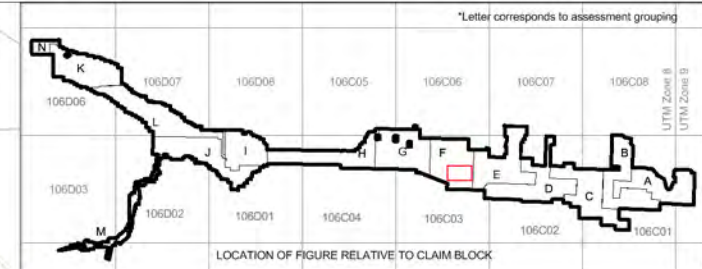
FIGURE 34  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 CRAIG NORTH A ROCK AND SILT SAMPLE LOCATIONS  
 RACKLA GOLD PROJECT

0 0.5 1 km  
 UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet, Scale 1:20,000  
 FILE: P:\...SampleLocationWorkspaces\R&S16\_CRAIGNORTH\_A\_WOR DATE: APRIL 2013

- 2012 Rock Samples
- ▲ 2012 Silt Samples



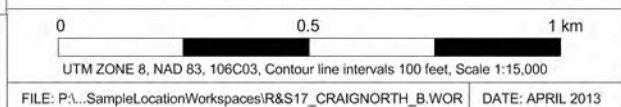
T.N.  
 1.57°  
 Grid north  
 22°57'  
 Magnetic north  
 Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C03



**ATAC RESOURCES LTD.**

**FIGURE 35**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 CRAIG NORTH B ROCK AND SILT SAMPLE LOCATIONS  
 RACKLA GOLD PROJECT

- 2012 Rock Samples
- ▲ 2012 Silt Samples

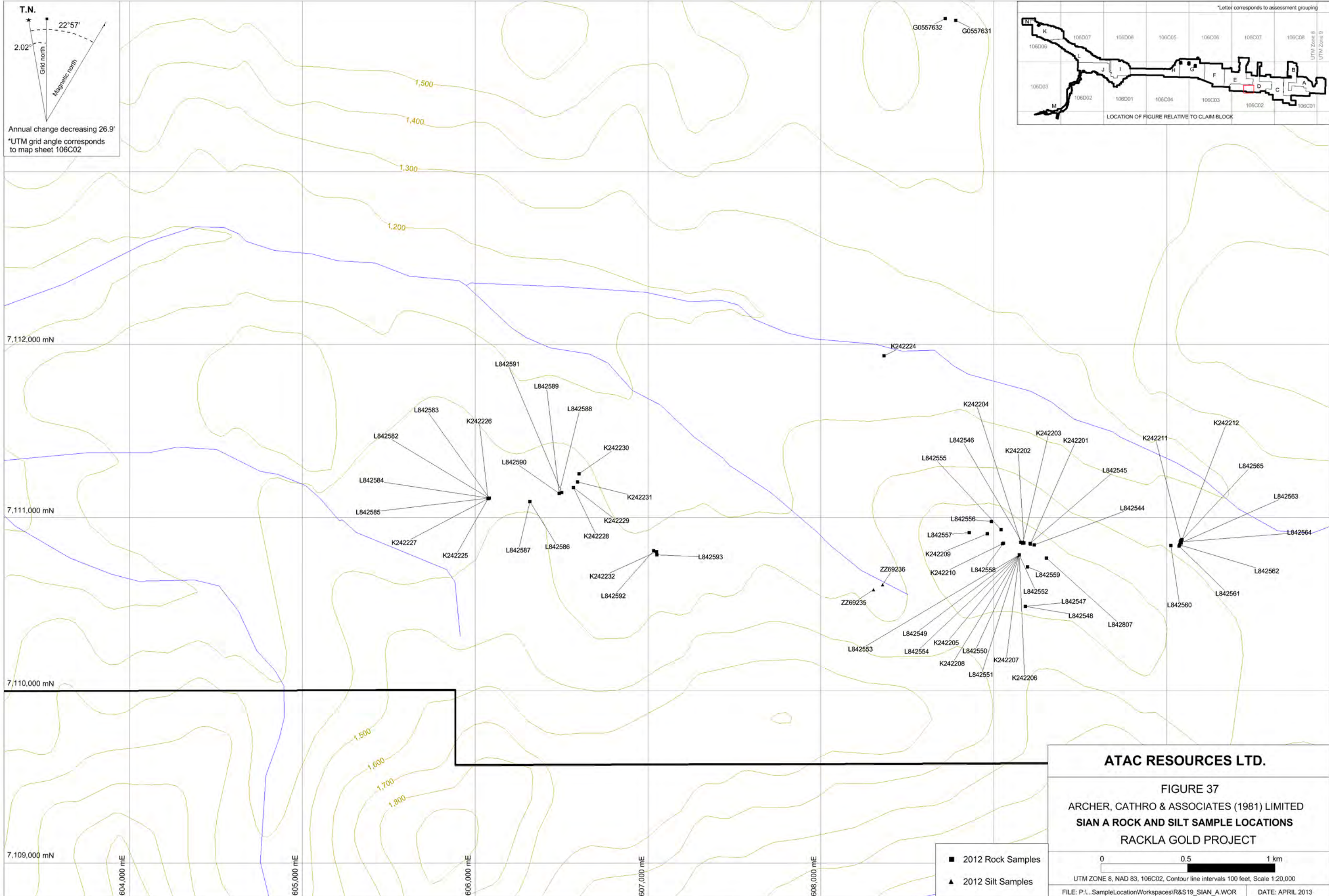
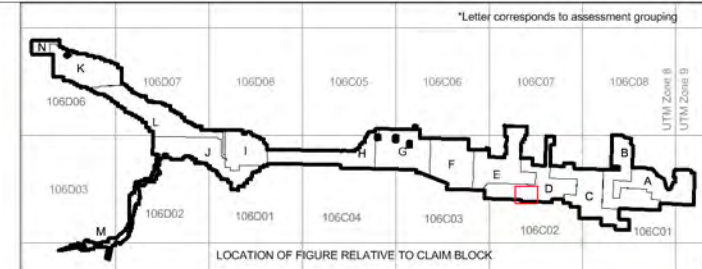








T.N.  
 22°57'  
 2.02°  
 Grid north  
 Magnetic north  
 Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C02

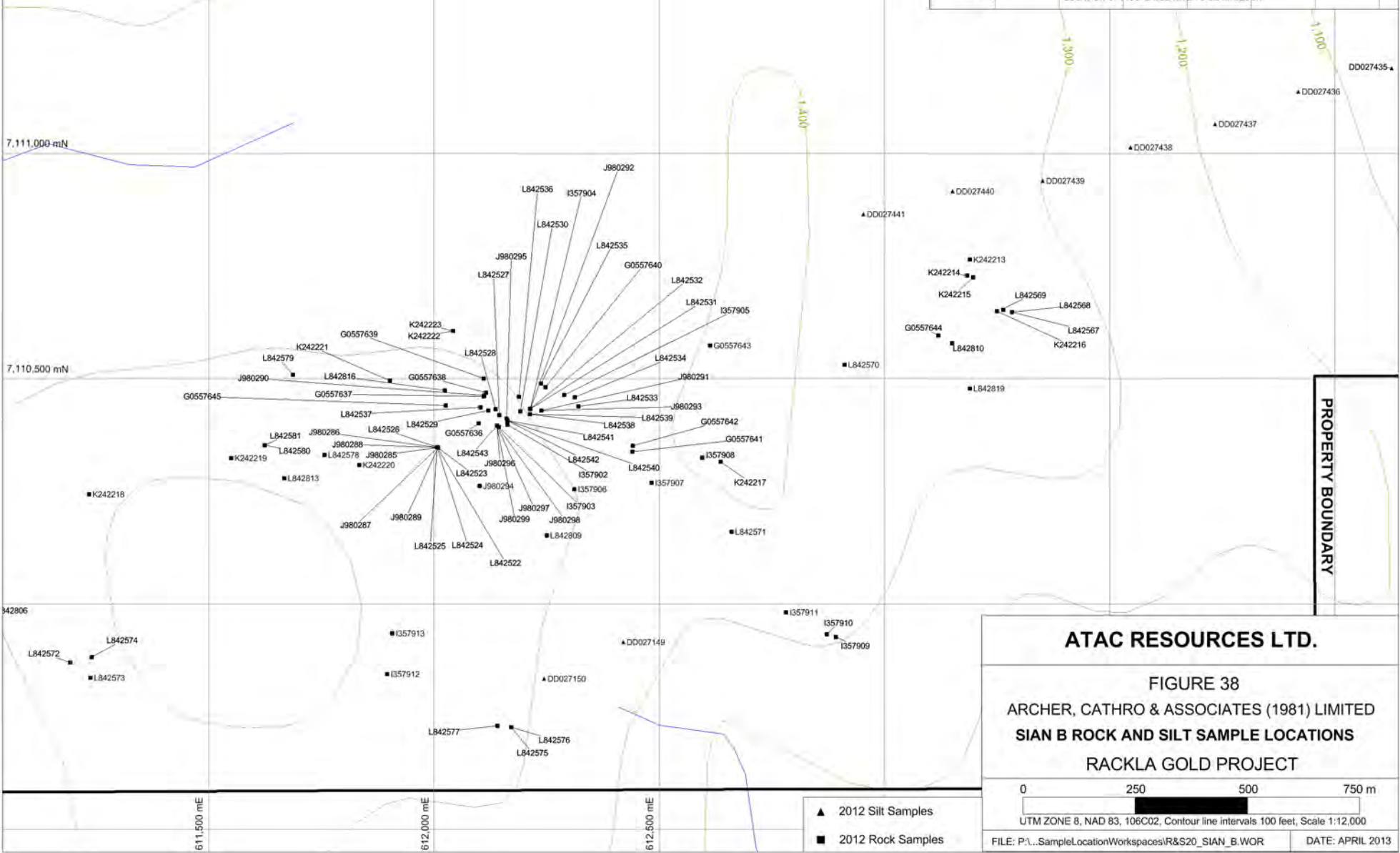
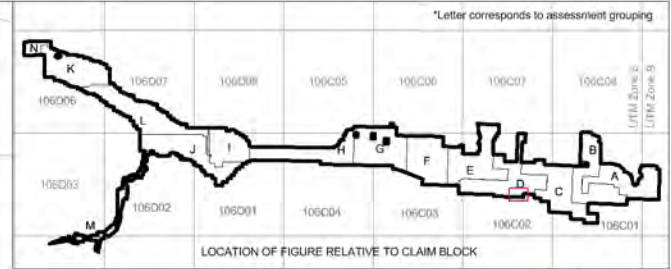
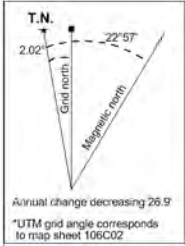


**ATAC RESOURCES LTD.**

**FIGURE 37**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**SIAN A ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0 0.5 1 km  
 UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:20,000  
 FILE: P:\...SampleLocationWorkspaces\R&S19\_SIAN\_A\_WOR DATE: APRIL 2013

- 2012 Rock Samples
- ▲ 2012 Silt Samples



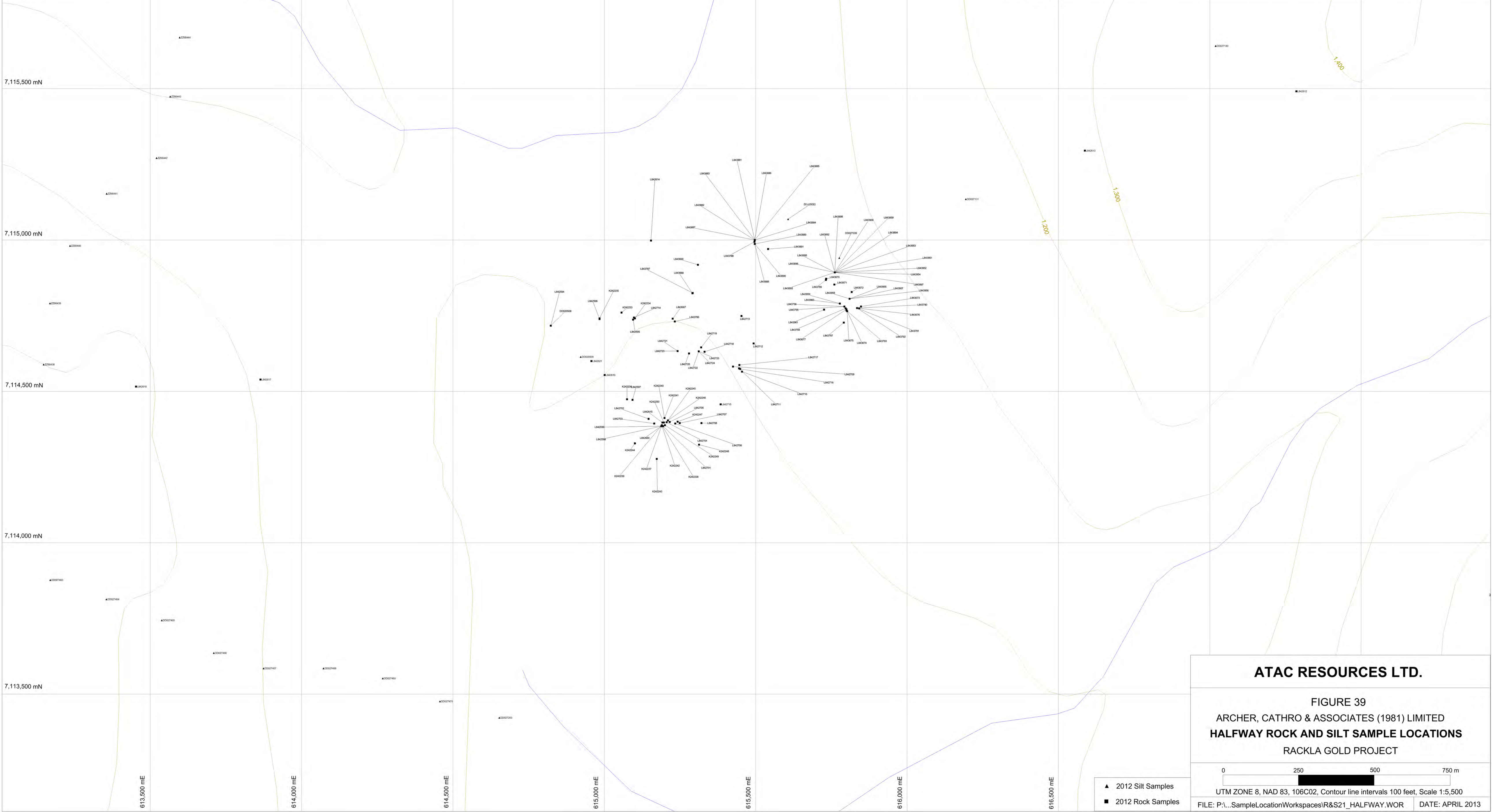
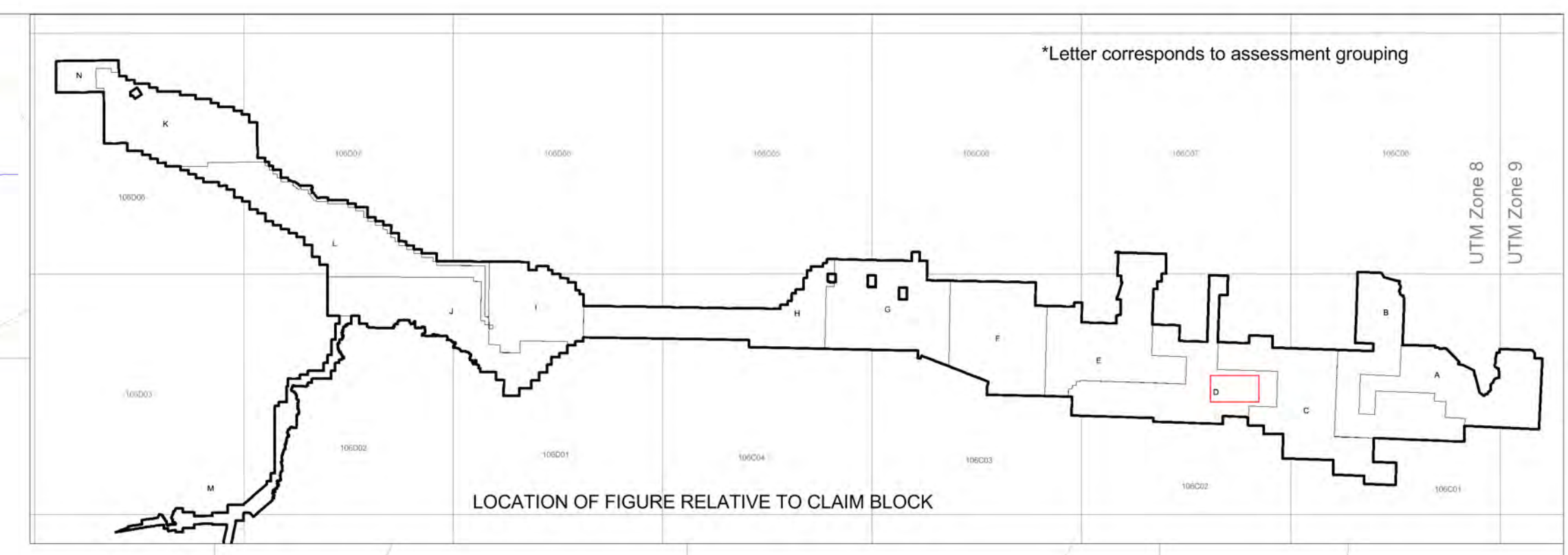
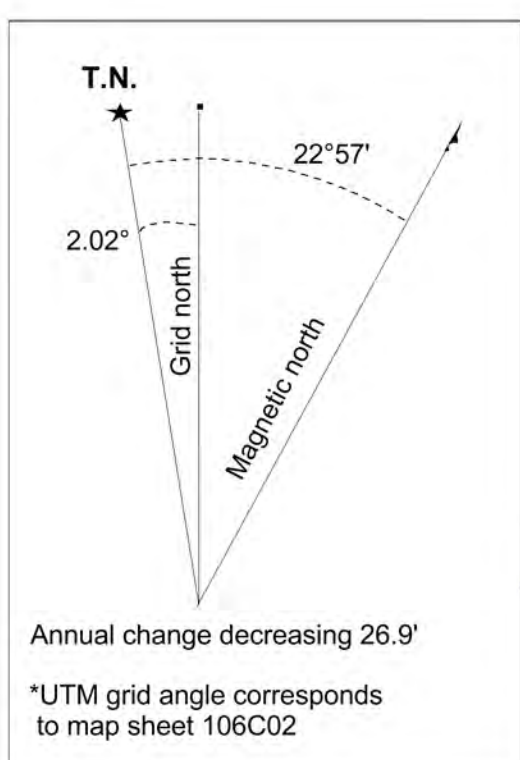
**ATAC RESOURCES LTD.**

**FIGURE 38**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**SIAN B ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0 250 500 750 m  
 UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:12,000

- ▲ 2012 Silt Samples
- 2012 Rock Samples





**ATAC RESOURCES LTD.**

**FIGURE 39**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**HALFWAY ROCK AND SILT SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

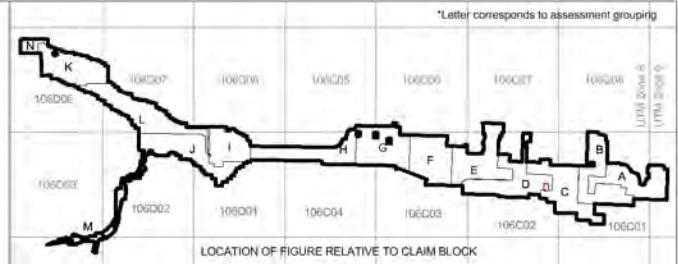
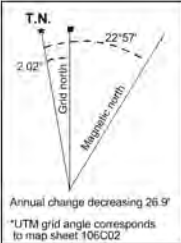
0      250      500      750 m

UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:5,500

FILE: P:\...SampleLocationWorkspaces\R&S21\_HALFWAY.WOR      DATE: APRIL 2013

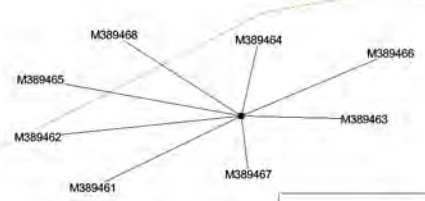
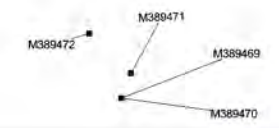
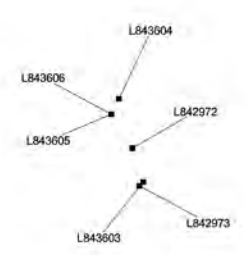
- ▲ 2012 Silt Samples
- 2012 Rock Samples





7,112,500 mN

7,112,000 mN



1,500

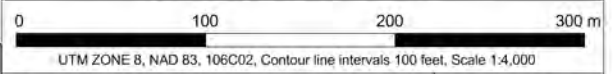
1,400

619,000 mE

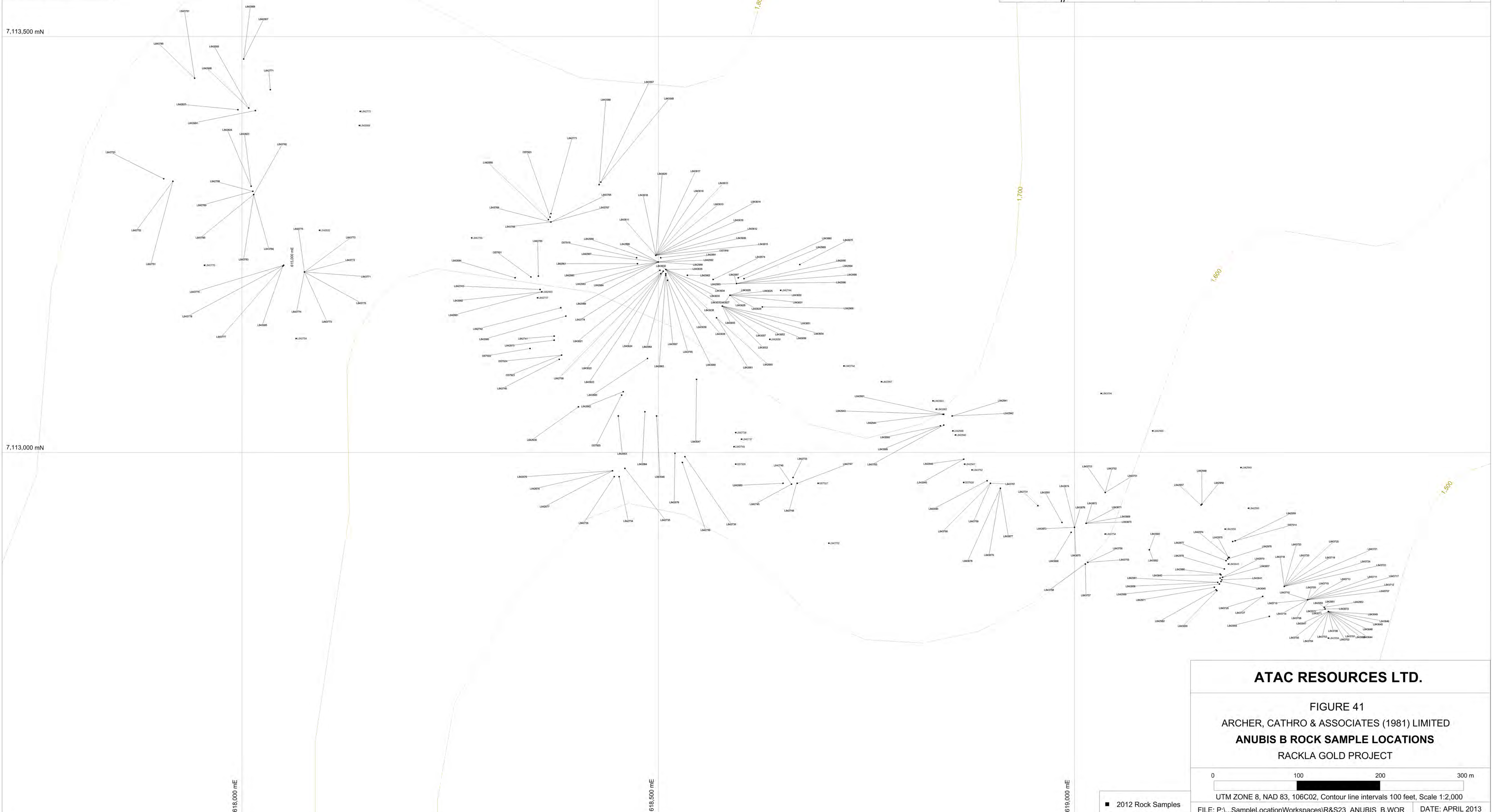
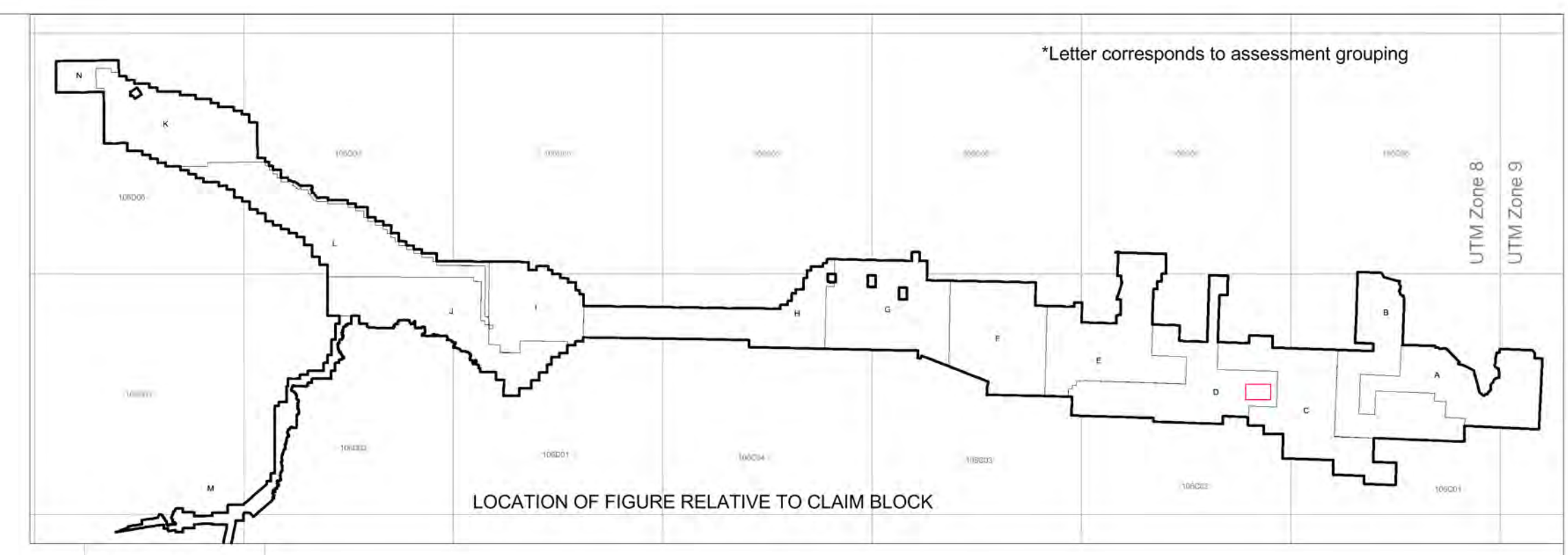
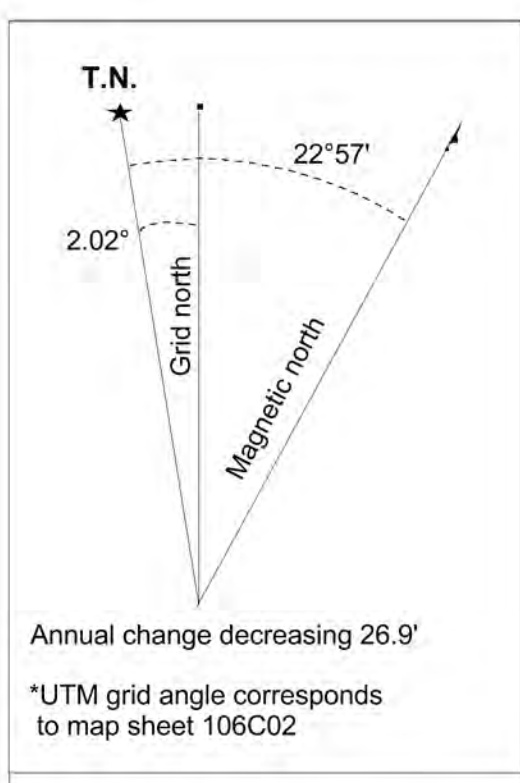
■ 2012 Rock Samples

**ATAC RESOURCES LTD.**

**FIGURE 40  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
ANUBIS A ROCK SAMPLE LOCATIONS  
RACKLA GOLD PROJECT**







**ATAC RESOURCES LTD.**

FIGURE 41  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ANUBIS B ROCK SAMPLE LOCATIONS**  
 RACKLA GOLD PROJECT

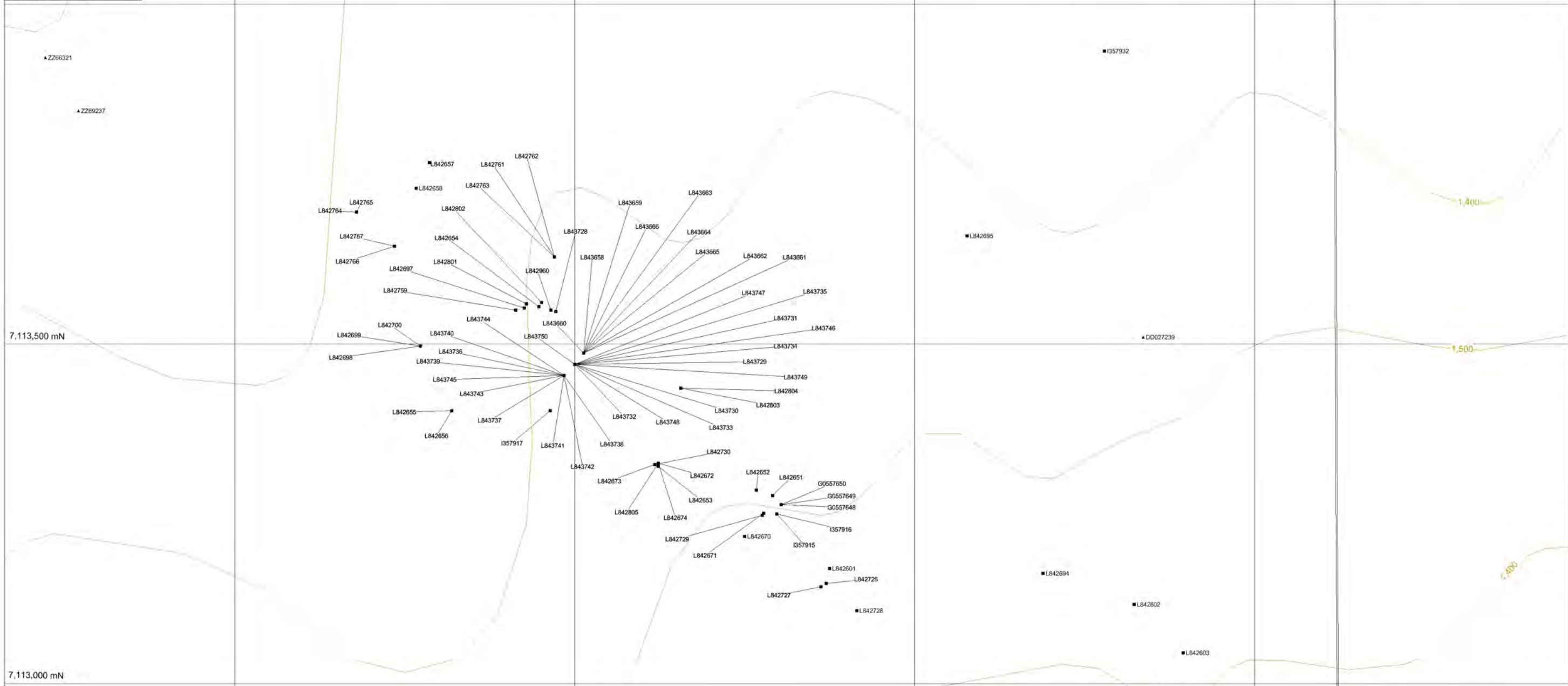
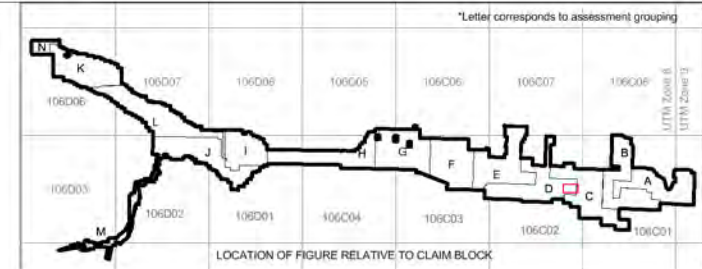
0      100      200      300 m

UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:2,000

FILE: P:\...SampleLocationWorkspaces\RS23\_ANUBIS\_B.WOR      DATE: APRIL 2013



T.N.  
 22°57'  
 2.02°  
 Grid north  
 Magnetic north  
 Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C02



**ATAC RESOURCES LTD.**

FIGURE 42  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 ANUBIS C ROCK AND SILT SAMPLE LOCATIONS  
 RACKLA GOLD PROJECT

0 200 400 m  
 UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:6,000

FILE: P:\...SampleLocationWorkspaces\R&S24\_ANUBIS\_C.WOR DATE: APRIL 2013

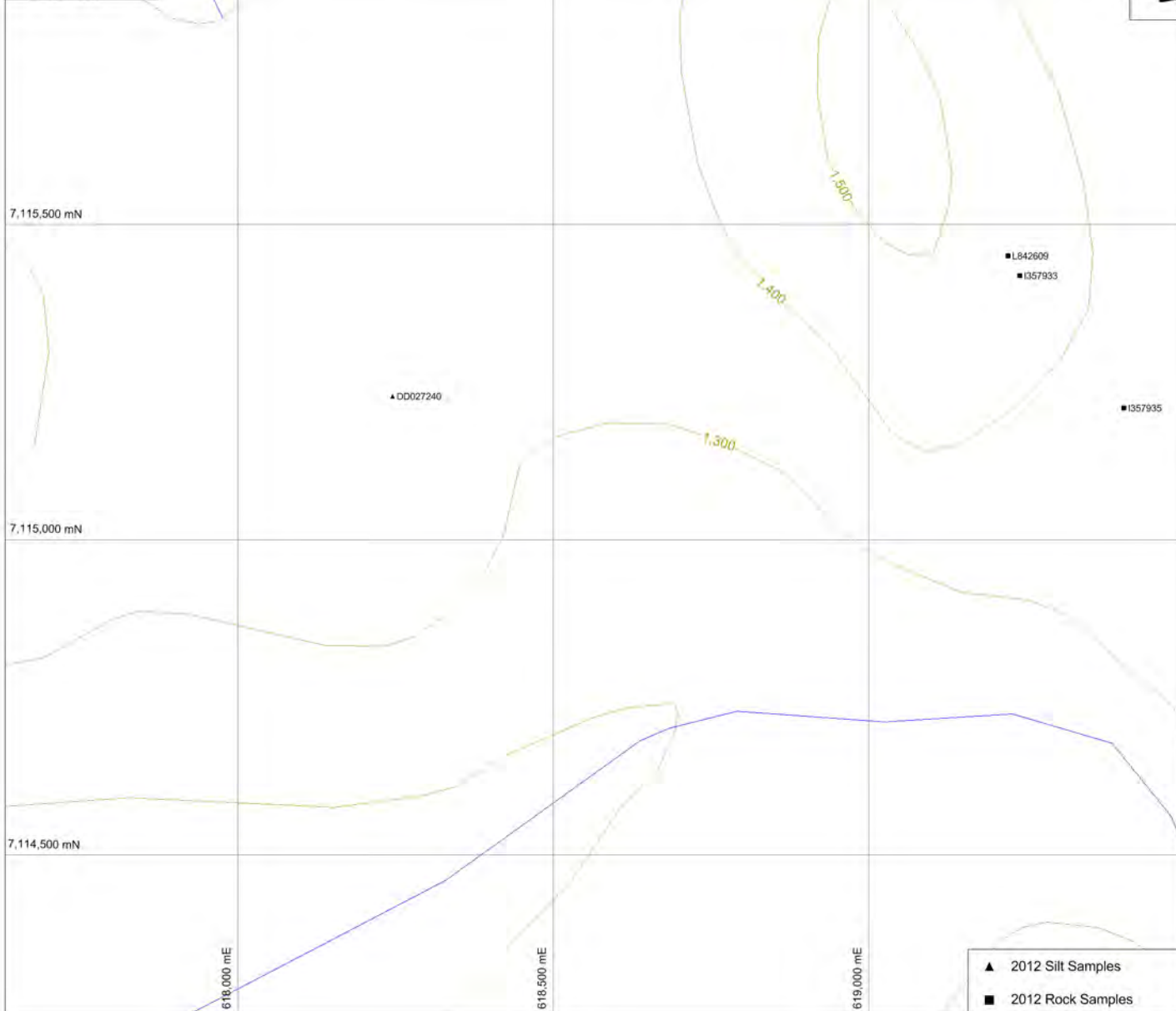
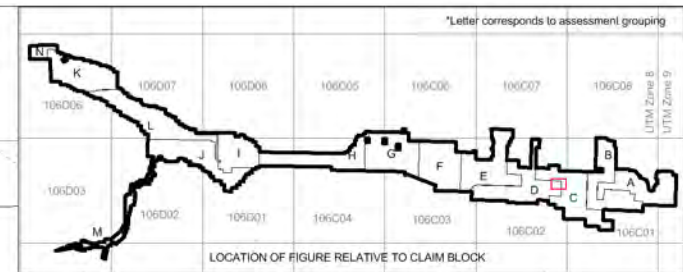
- 2012 Rock Samples
- ▲ 2012 Silt Samples

7,113,500 mN  
 7,113,000 mN  
 618,500 mE  
 619,000 mE  
 619,500 mE

T.N.  
 2.02'  
 Grid north ↑  
 Magnetic north ↘  
 22° 57'

Annual change decreasing 26.9'

\*UTM grid angle corresponds to map sheet 106C02



- ▲ 2012 Silt Samples
- 2012 Rock Samples

**ATAC RESOURCES LTD.**

**FIGURE 43**

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**DALE NORTH ROCK AND SILT SAMPLE LOCATIONS**

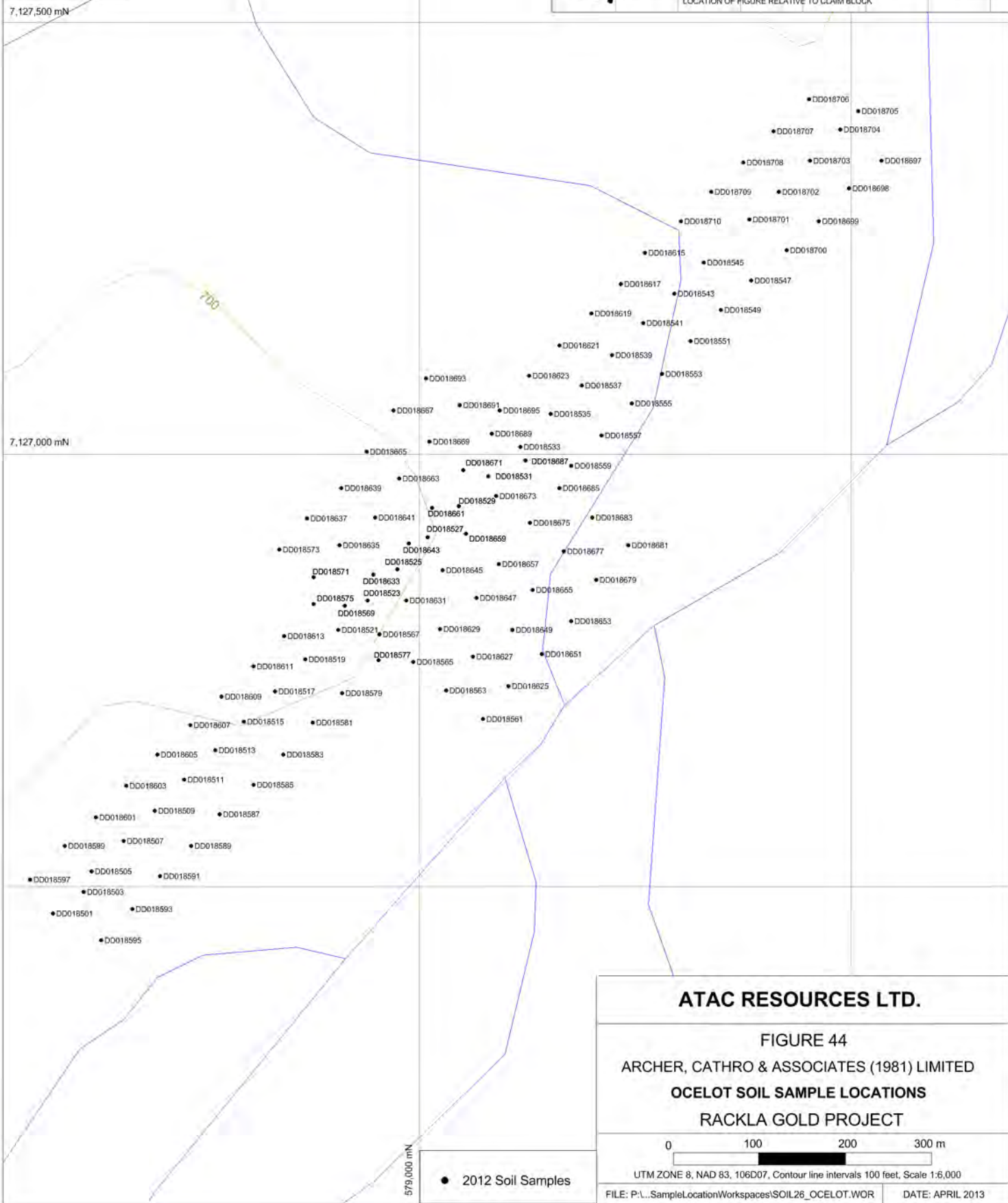
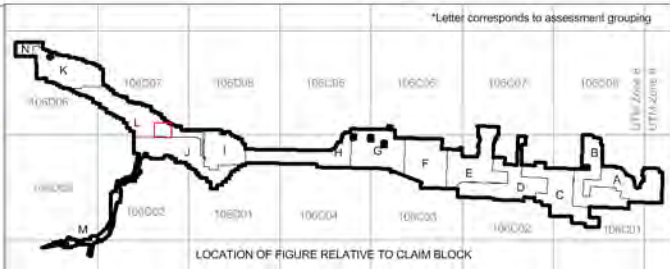
**RACKLA GOLD PROJECT**

0 250 500 750 m

UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:10,000

FILE: P:\...SampleLocationWorkspaces\R&S25\_DALENORTH.WOR DATE: APRIL 2013

T.N.  
 0.23°  
 Grid north  
 22°49'  
 Magnetic north  
 Annual change decreasing 26.5'  
 \*UTM grid angle corresponds to map sheet 10SD07



**ATAC RESOURCES LTD.**

FIGURE 44  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**OCELOT SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

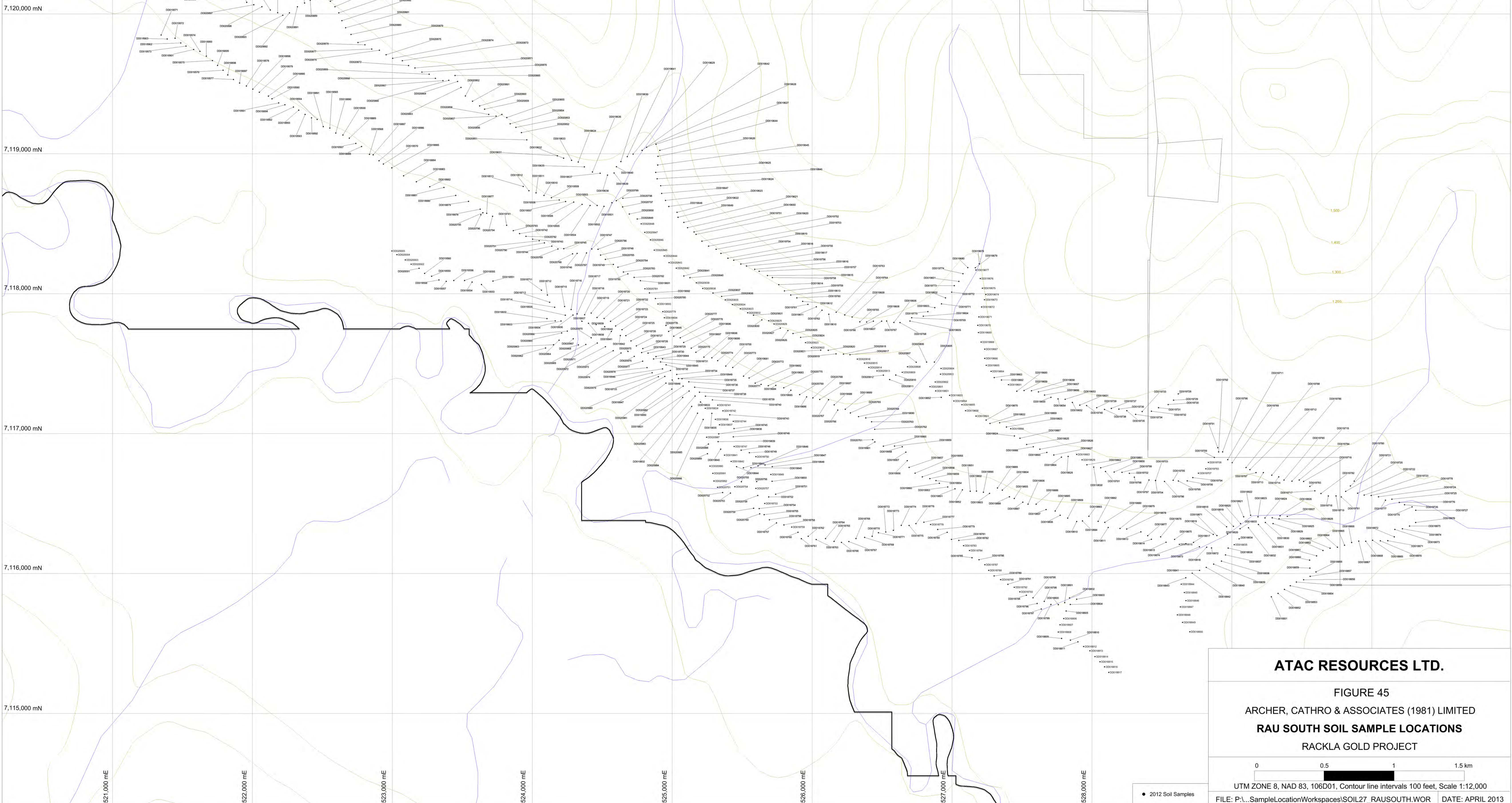
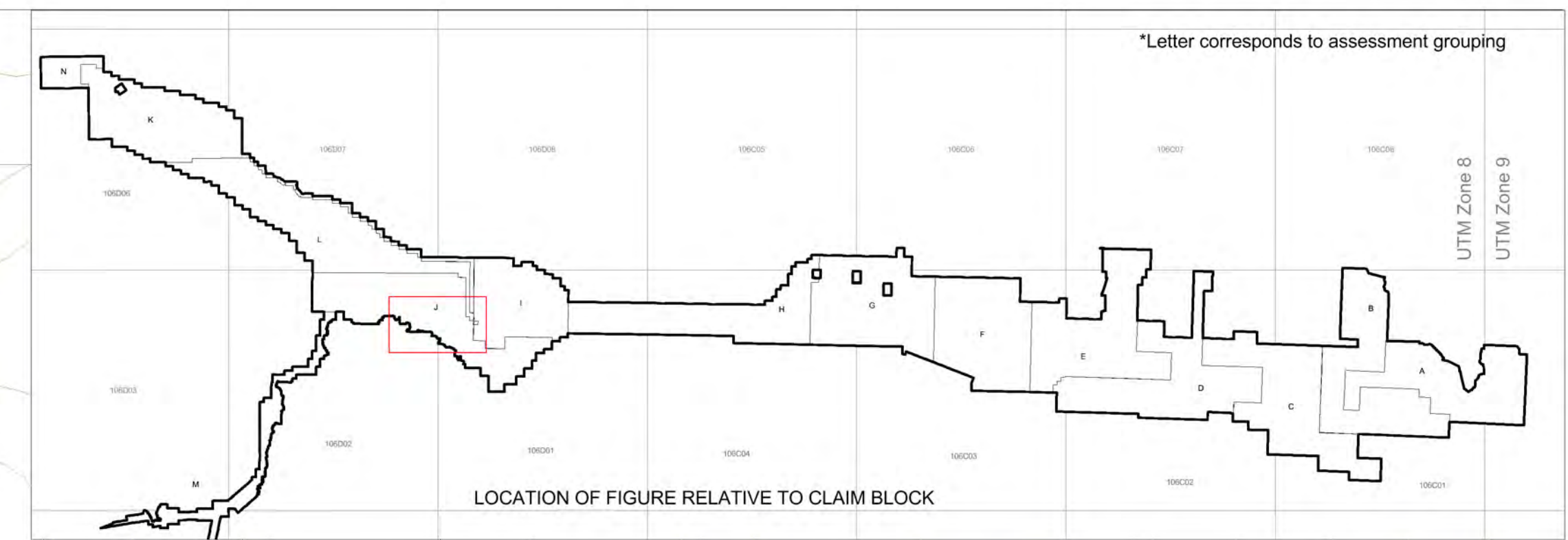
0      100      200      300 m

UTM ZONE 8, NAD 83, 106D07, Contour line intervals 100 feet, Scale 1:6,000

FILE: P:\...SampleLocationWorkspaces\SOIL26\_OCELOT.WOR      DATE: APRIL 2013



T.N.  
 0.67°  
 Grid north  
 22°51'  
 Magnetic north  
 Annual change decreasing 26.6'  
 \*UTM grid angle corresponds to map sheet 106D01



**ATAC RESOURCES LTD.**

**FIGURE 45**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**RAU SOUTH SOIL SAMPLE LOCATIONS**  
 RACKLA GOLD PROJECT

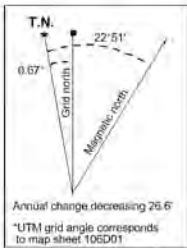
0 0.5 1 1.5 km

UTM ZONE 8, NAD 83, 106D01, Contour line intervals 100 feet, Scale 1:12,000

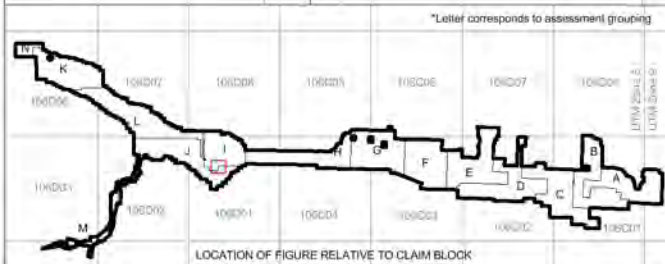
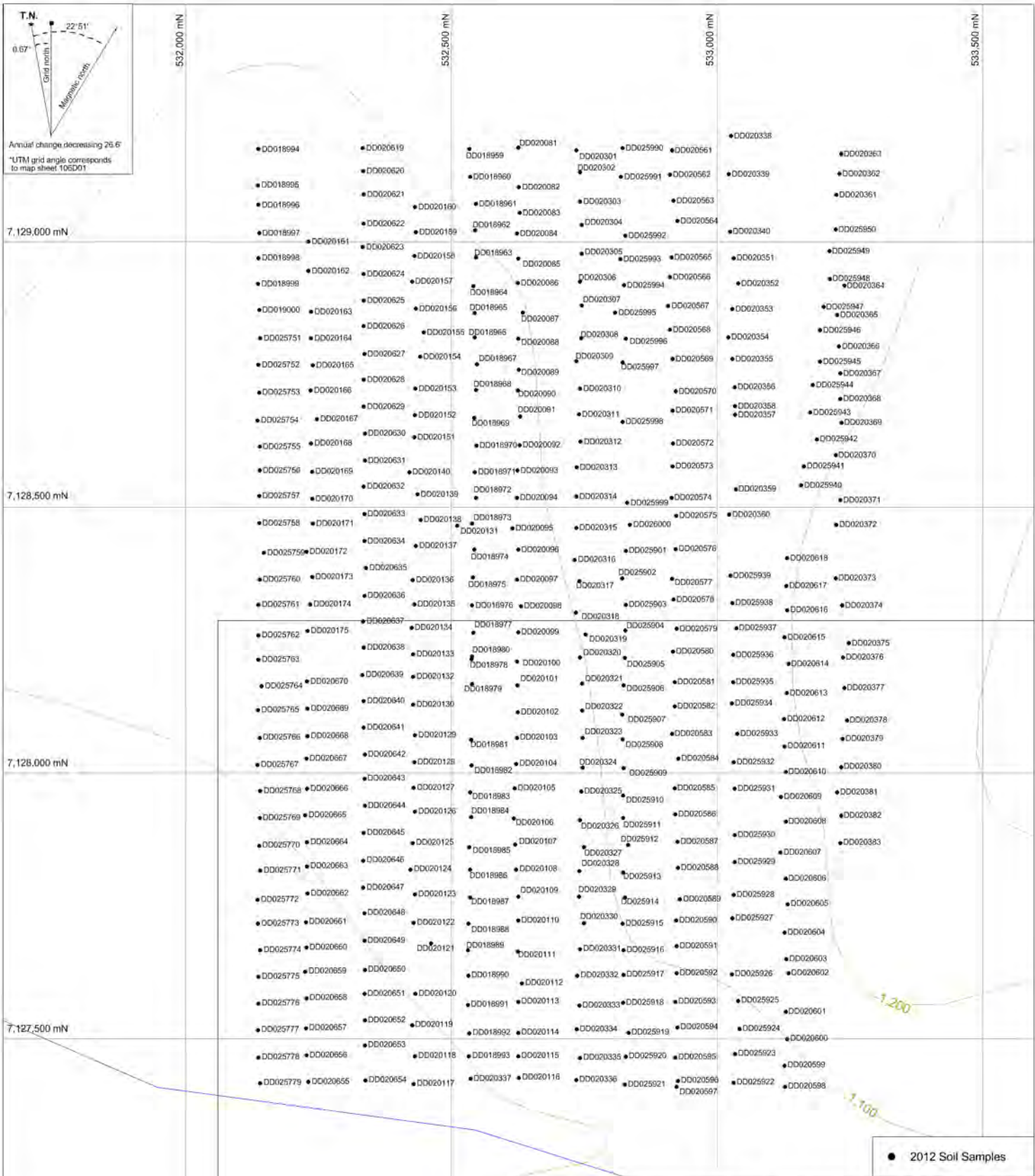
FILE: P:\...SampleLocationWorkspaces\SOIL27\_RAUSOUTH.WOR DATE: APRIL 2013

● 2012 Soil Samples





Annual change decreasing 26.6  
 \*UTM grid angle corresponds to map sheet 10SD01



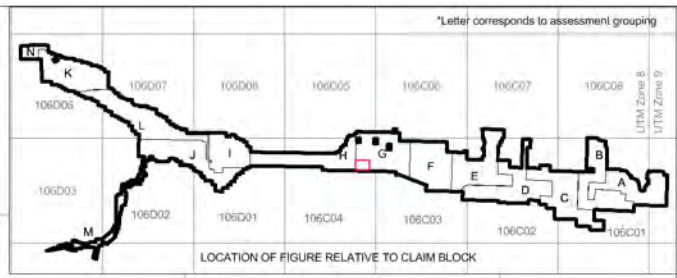
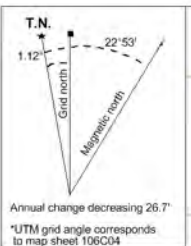
**ATAC RESOURCES LTD.**

FIGURE 46  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**KATHY SOIL SAMPLE LOCATIONS**  
 RACKLA GOLD PROJECT

0      200      400      600 m

UTM ZONE 8, NAD 83, 10SD01, Contour line intervals 100 feet, Scale 1:10,000

FILE: P:\L\_SampleLocationWorkspaces\SOIL28\_KATHY.WOR      DATE: APRIL 2013

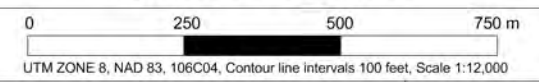


**PROPERTY BOUNDARY**

● 2012 Soil Samples

**ATAC RESOURCES LTD.**

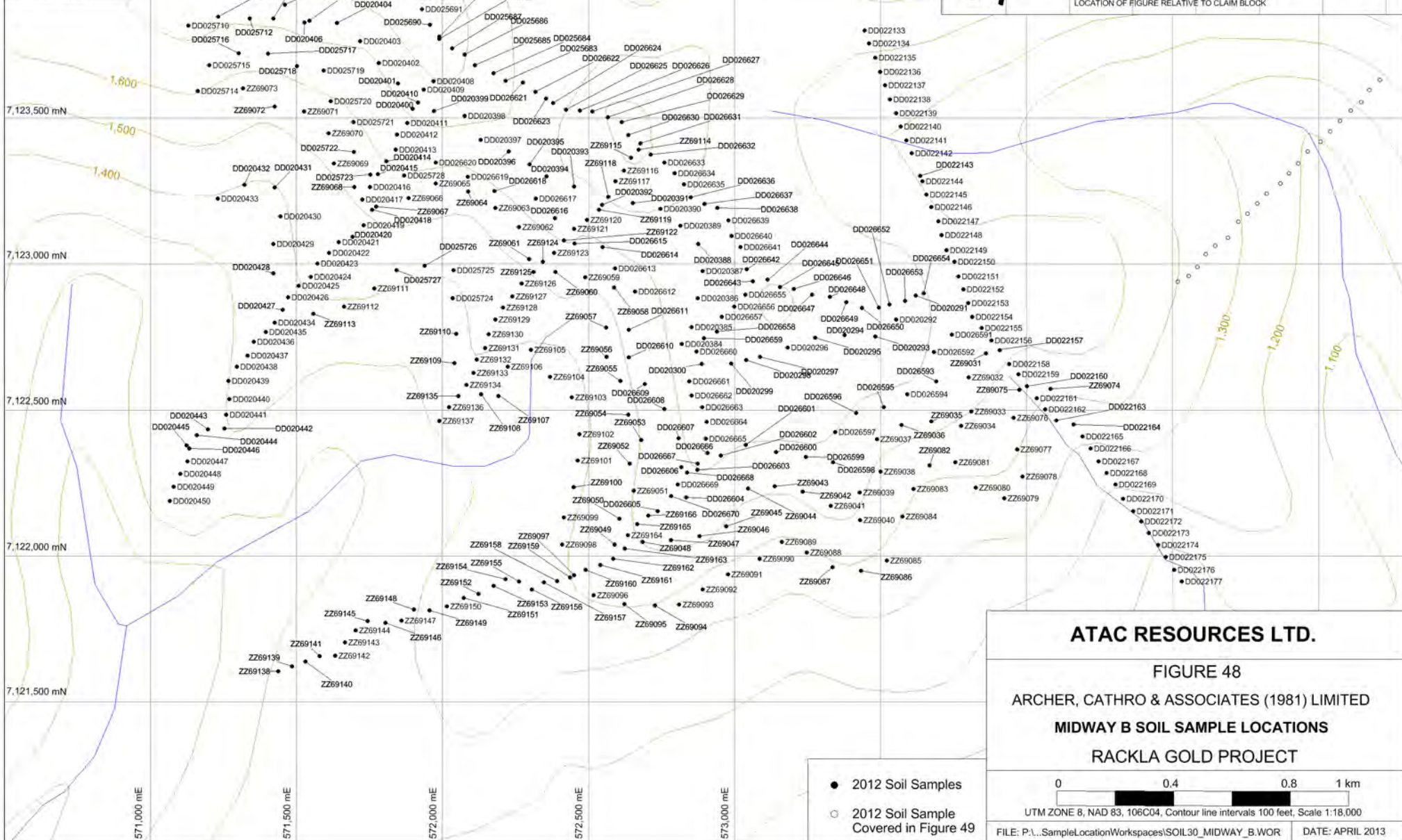
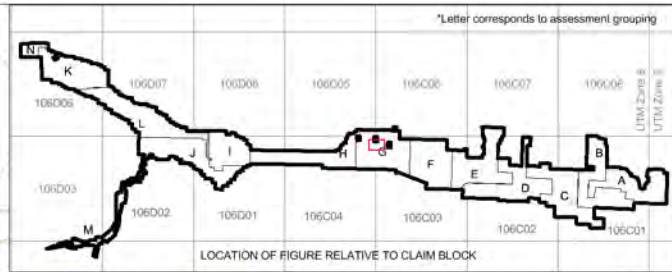
**FIGURE 47**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**MIDWAY A SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**



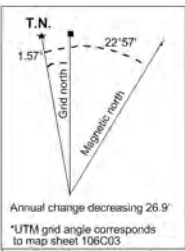


T.N.  
1.12°  
Grid north 1  
Magnetic north  
22°56'

Annual change decreasing 26.8"  
\*UTM grid angle corresponds to map sheet 106C04

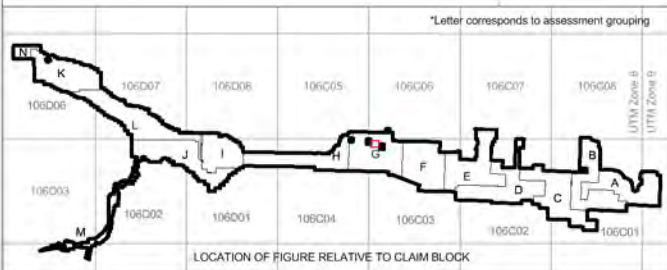




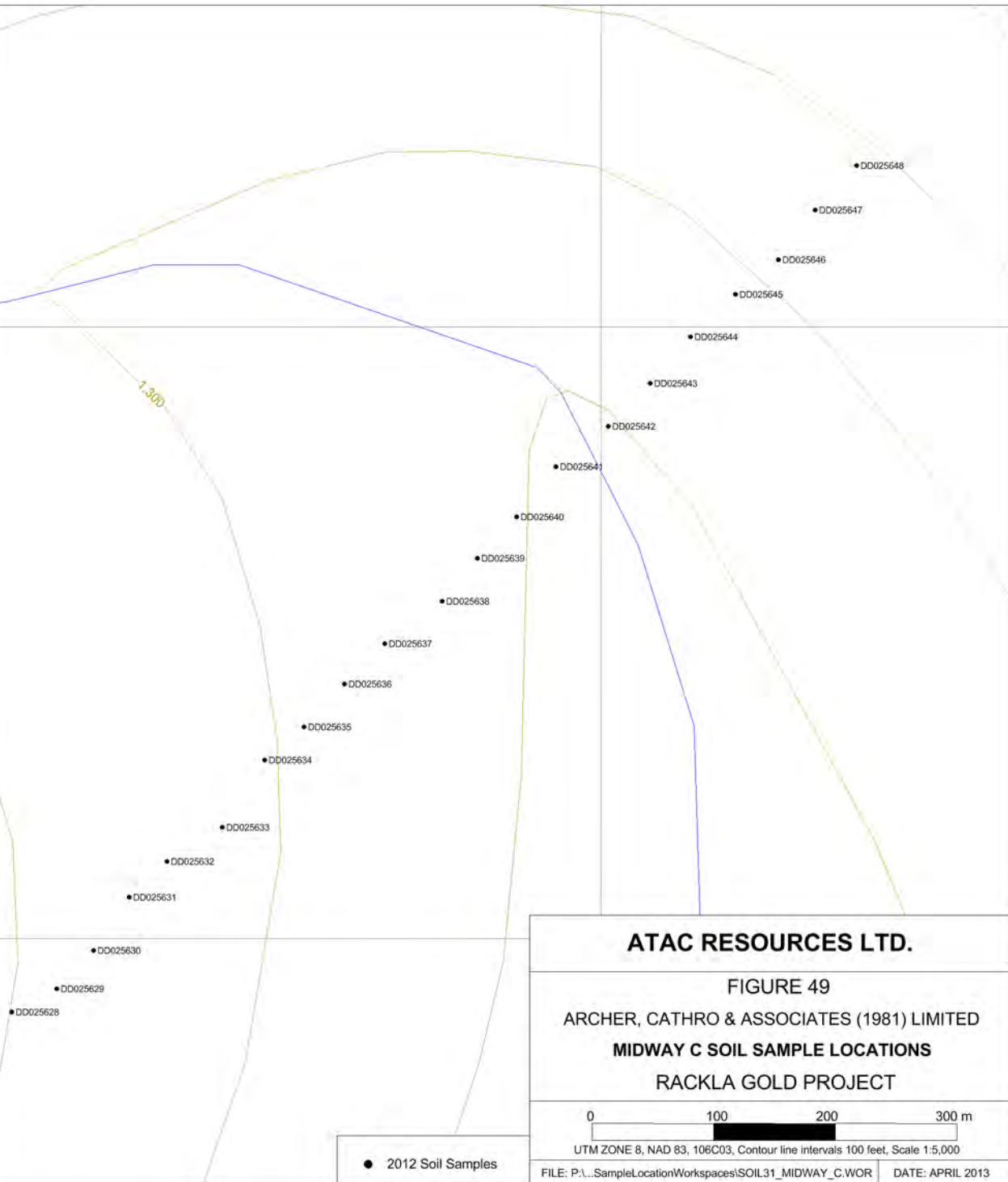


7,123,500 mN

7,123,000 mN



574,500 mE



● 2012 Soil Samples

**ATAC RESOURCES LTD.**

**FIGURE 49**

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**MIDWAY C SOIL SAMPLE LOCATIONS**

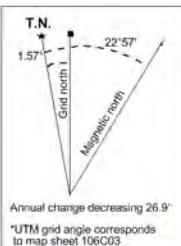
**RACKLA GOLD PROJECT**

0 100 200 300 m

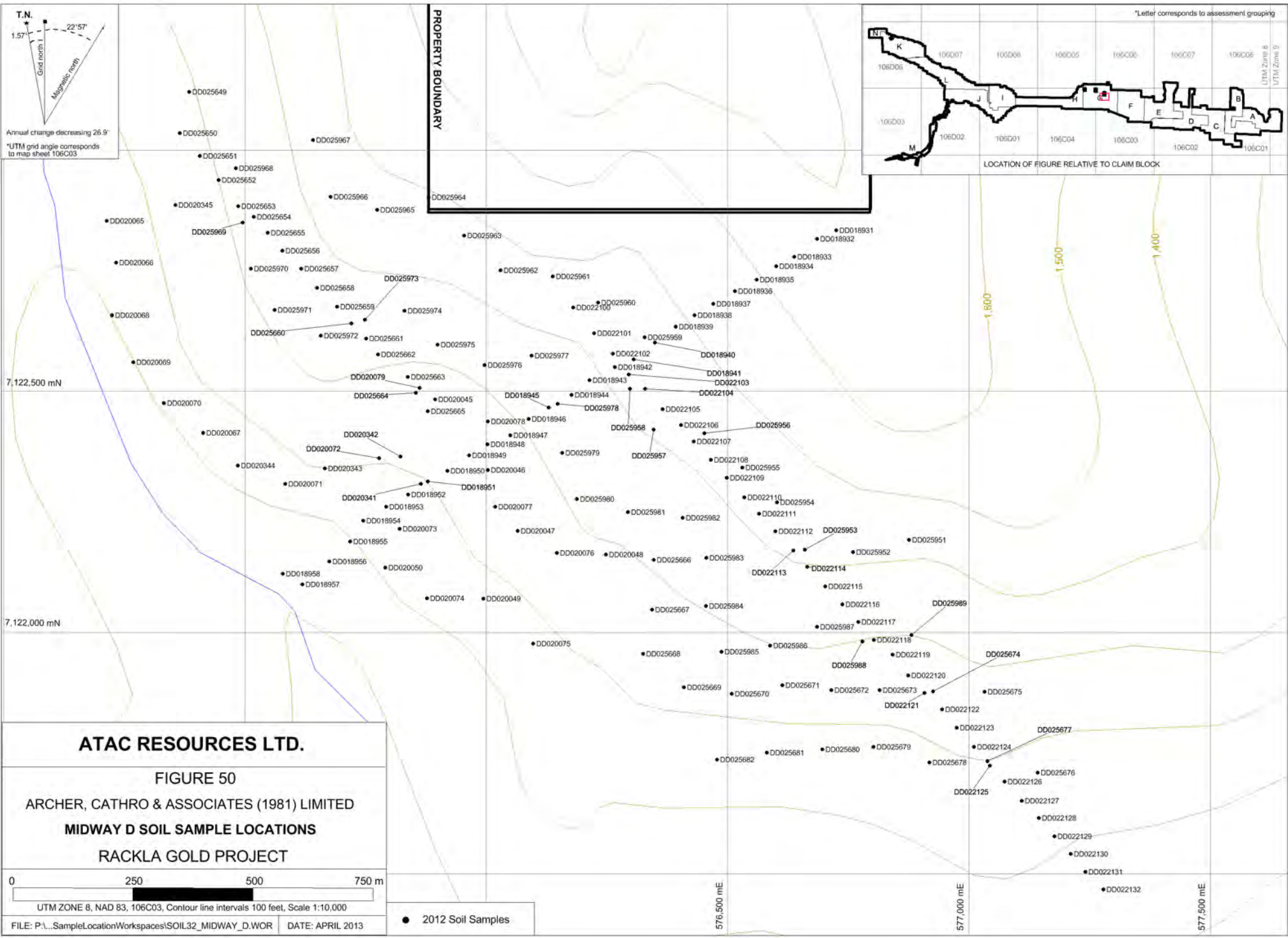
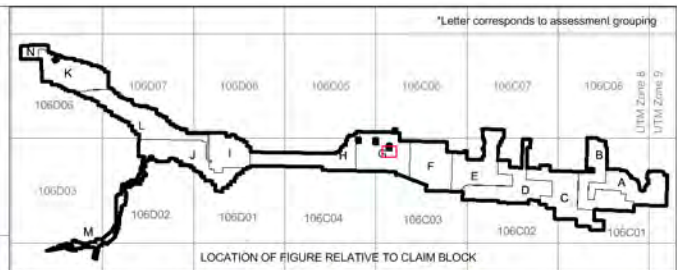
UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet, Scale 1:5,000

FILE: P:\...SampleLocationWorkspaces\SOIL31\_MIDWAY\_C.WOR DATE: APRIL 2013





Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C03



**ATAC RESOURCES LTD.**

**FIGURE 50**

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**MIDWAY D SOIL SAMPLE LOCATIONS**

**RACKLA GOLD PROJECT**

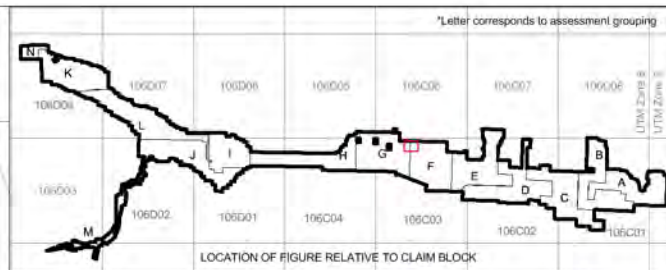
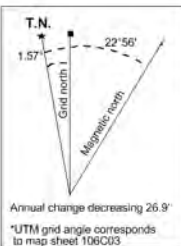
0 250 500 750 m

UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet, Scale 1:10,000

FILE: P:\...SampleLocationWorkspaces\SOIL32\_MIDWAY\_D.WOR DATE: APRIL 2013

● 2012 Soil Samples



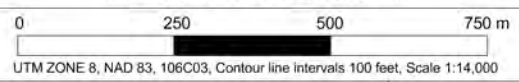


**PROPERTY BOUNDARY**



**ATAC RESOURCES LTD.**

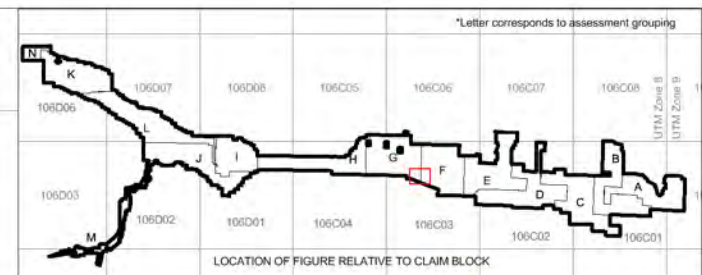
**FIGURE 51**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**MIDWAY E SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**



● 2012 Soil Samples



T.N.  
 1.57°  
 Grid north  
 22°56'  
 Magnetic north  
 Annual change decreasing 26.8'  
 \*UTM grid angle corresponds to map sheet 106C03



**ATAC RESOURCES LTD.**

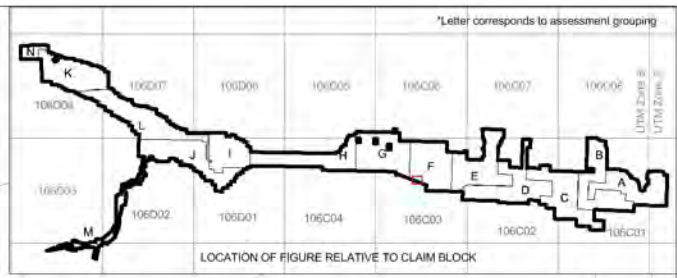
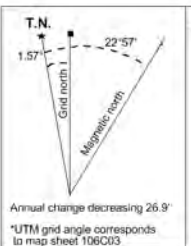
FIGURE 52  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 CRAIG NORTH A SOIL SAMPLE LOCATIONS  
 RACKLA GOLD PROJECT

0 0.4 0.8 1 km  
 UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet, Scale 1:15,000

FILE: P:\...SampleLocationWorkspaces\SOIL34\_CRAIGNORTH\_A\_WOR DATE: APRIL 2013

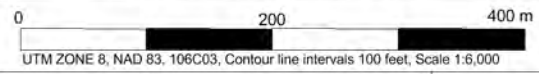
● 2012 Soil Samples





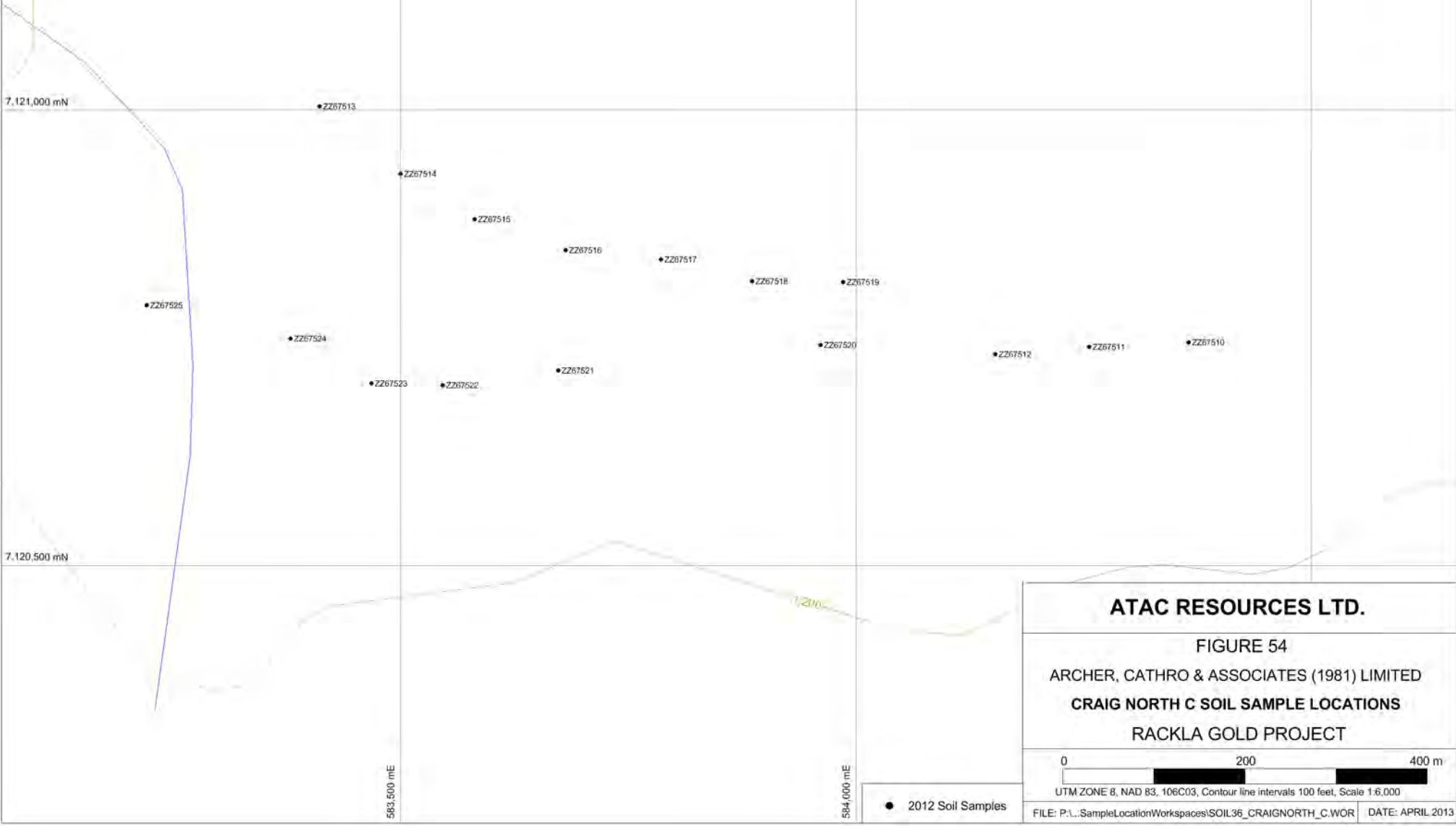
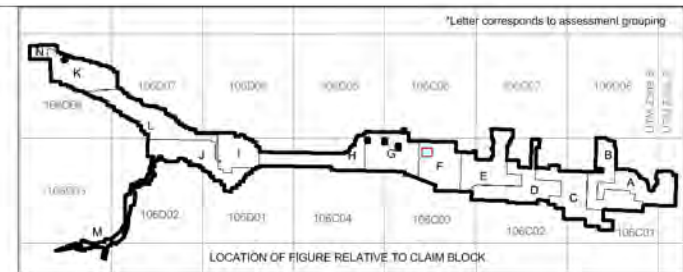
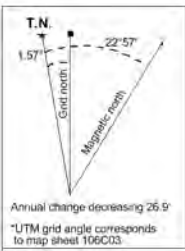
**ATAC RESOURCES LTD.**

**FIGURE 53**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**CRAIG NORTH B SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**



● 2012 Soil Samples





**ATAC RESOURCES LTD.**

FIGURE 54

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CRAIG NORTH C SOIL SAMPLE LOCATIONS**

**RACKLA GOLD PROJECT**

0 200 400 m

UTM ZONE 8, NAD 83, 106C03, Contour line intervals 100 feet, Scale 1:6,000

FILE: P:\L...SampleLocationWorkspaces\SOIL36\_CRAIGNORTH\_C.WOR DATE: APRIL 2013

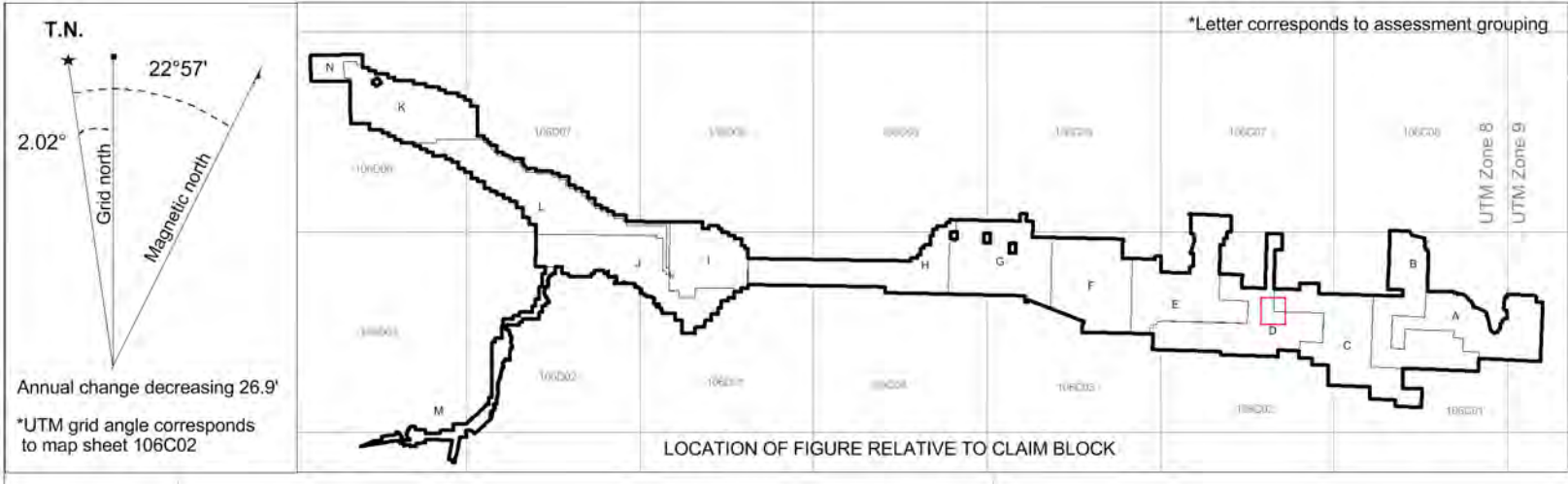








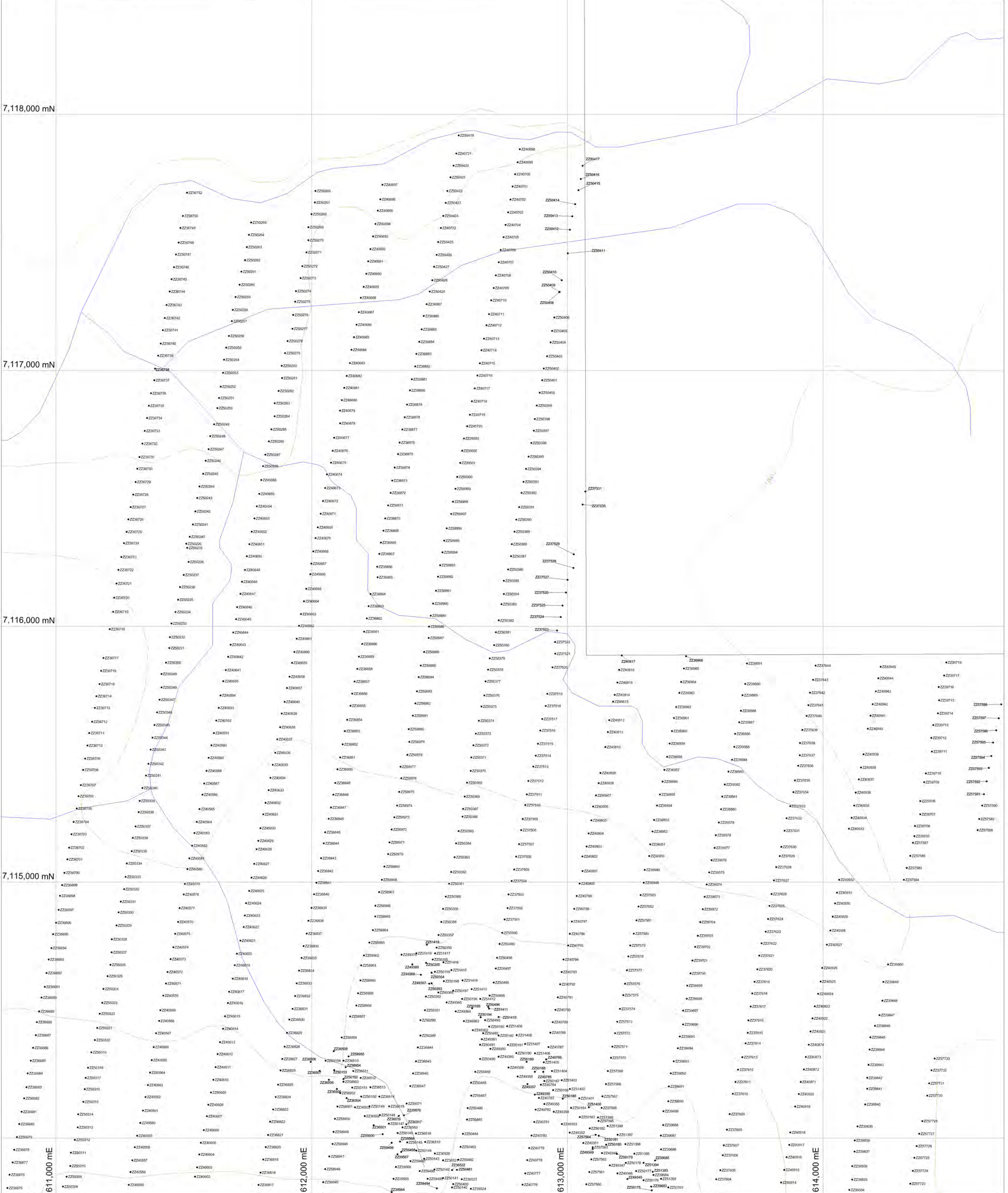
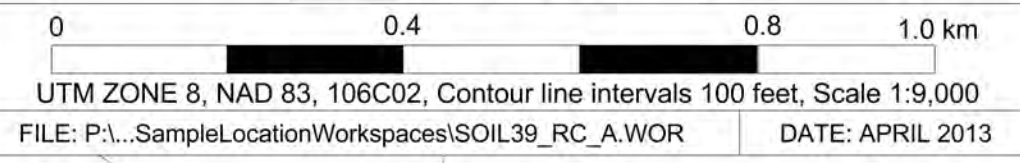




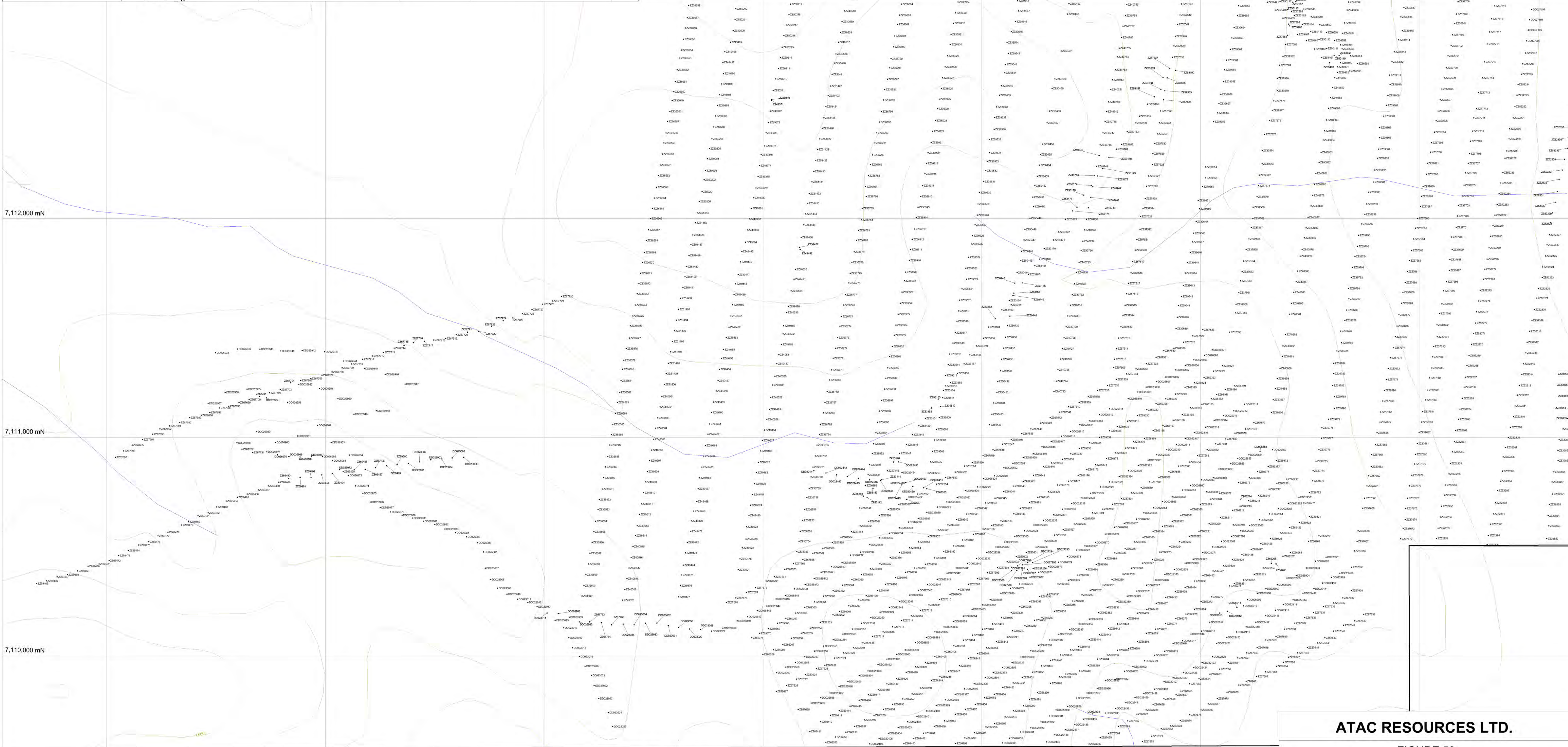
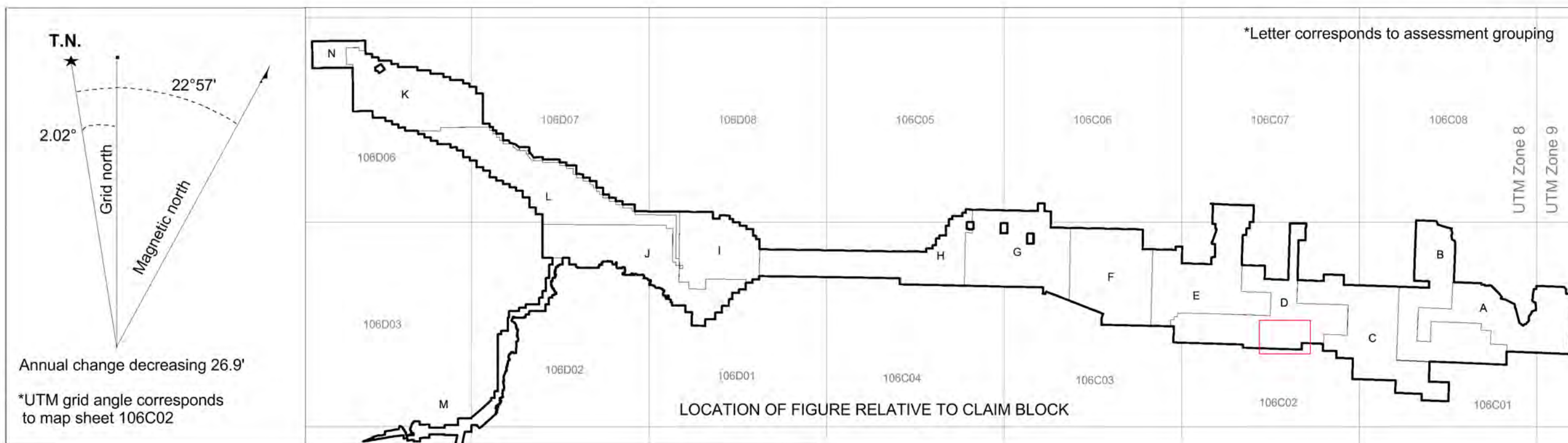
● 2012 Soil Samples

**ATAC RESOURCES LTD.**

**FIGURE 57**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**RACKLA CENTRAL A SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**







**ATAC RESOURCES LTD.**

FIGURE 58  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SIAN SOIL SAMPLE LOCATIONS**  
RACKLA GOLD PROJECT

0      0.4      0.8      1.0 km

• 2012 Soil Samples

UTM ZONE 8, NAD 83, 106C02, Contour line intervals 100 feet, Scale 1:8,000  
FILE: P:\...SampleLocationWorkspaces\SOL40\_SIAN.WOR      DATE: APRIL 2013

**PROPERTY BOUNDARY**

608,000 mE

609,000 mE

610,000 mE

611,000 mE

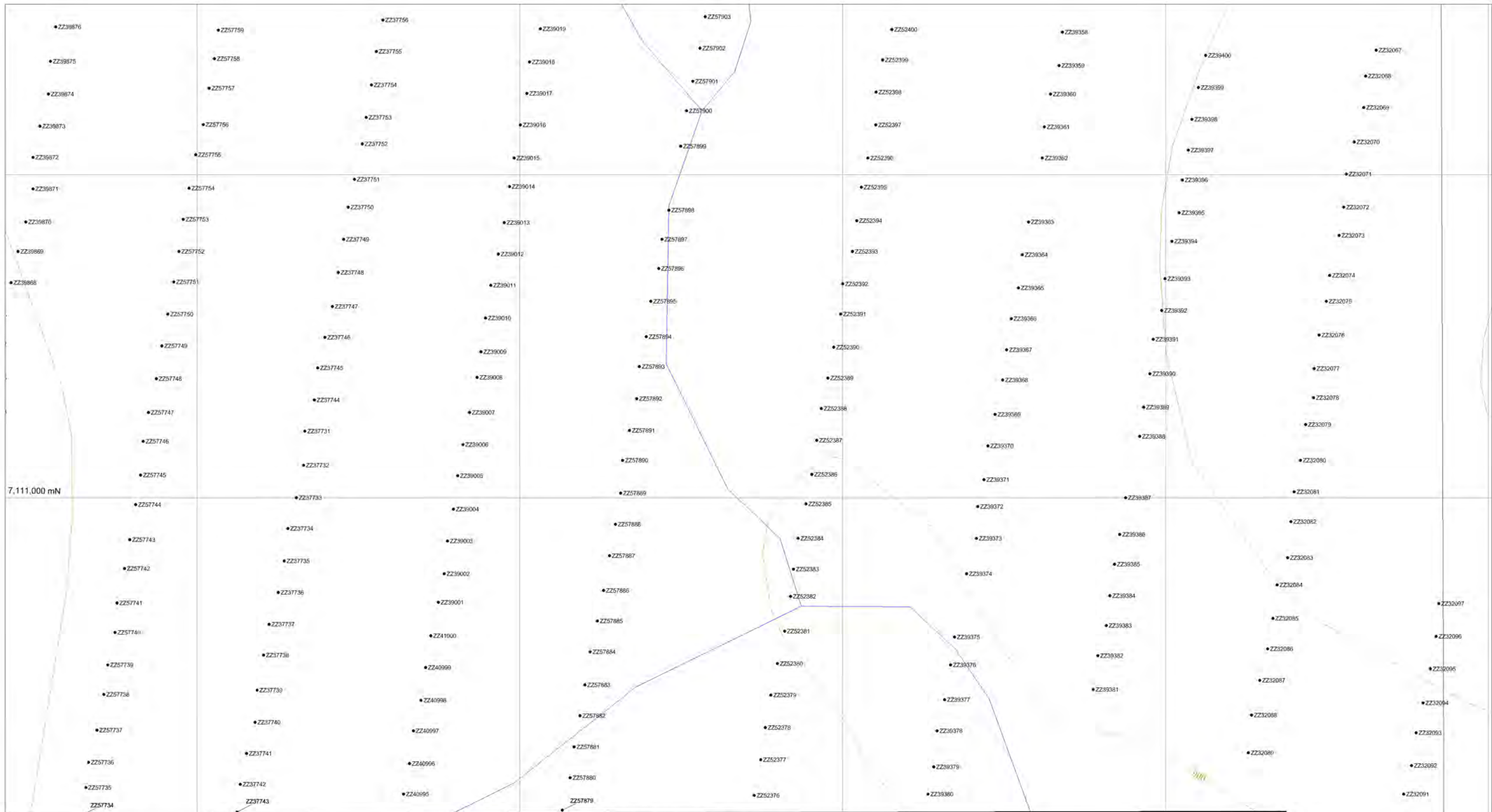
612,000 mE

7,112,000 mN

7,111,000 mN

7,110,000 mN

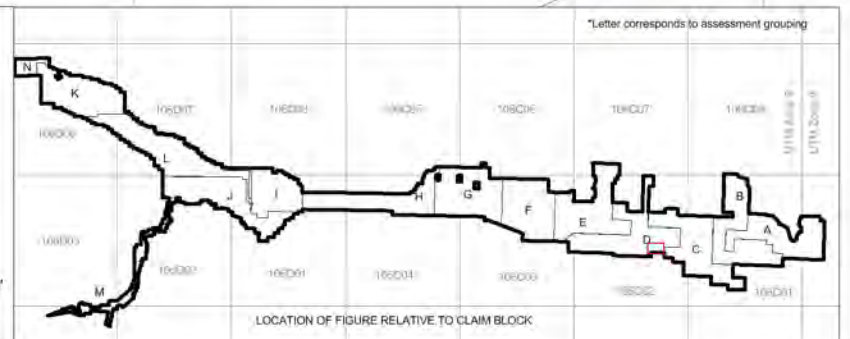
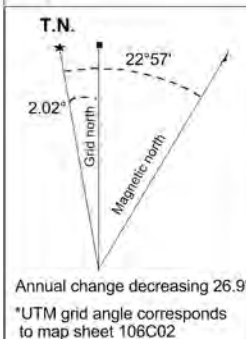




7,111,000 mN

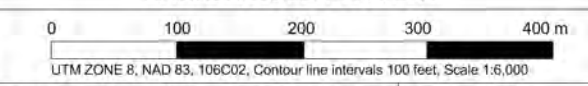
PROPERTY BOUNDARY

616,000 mE



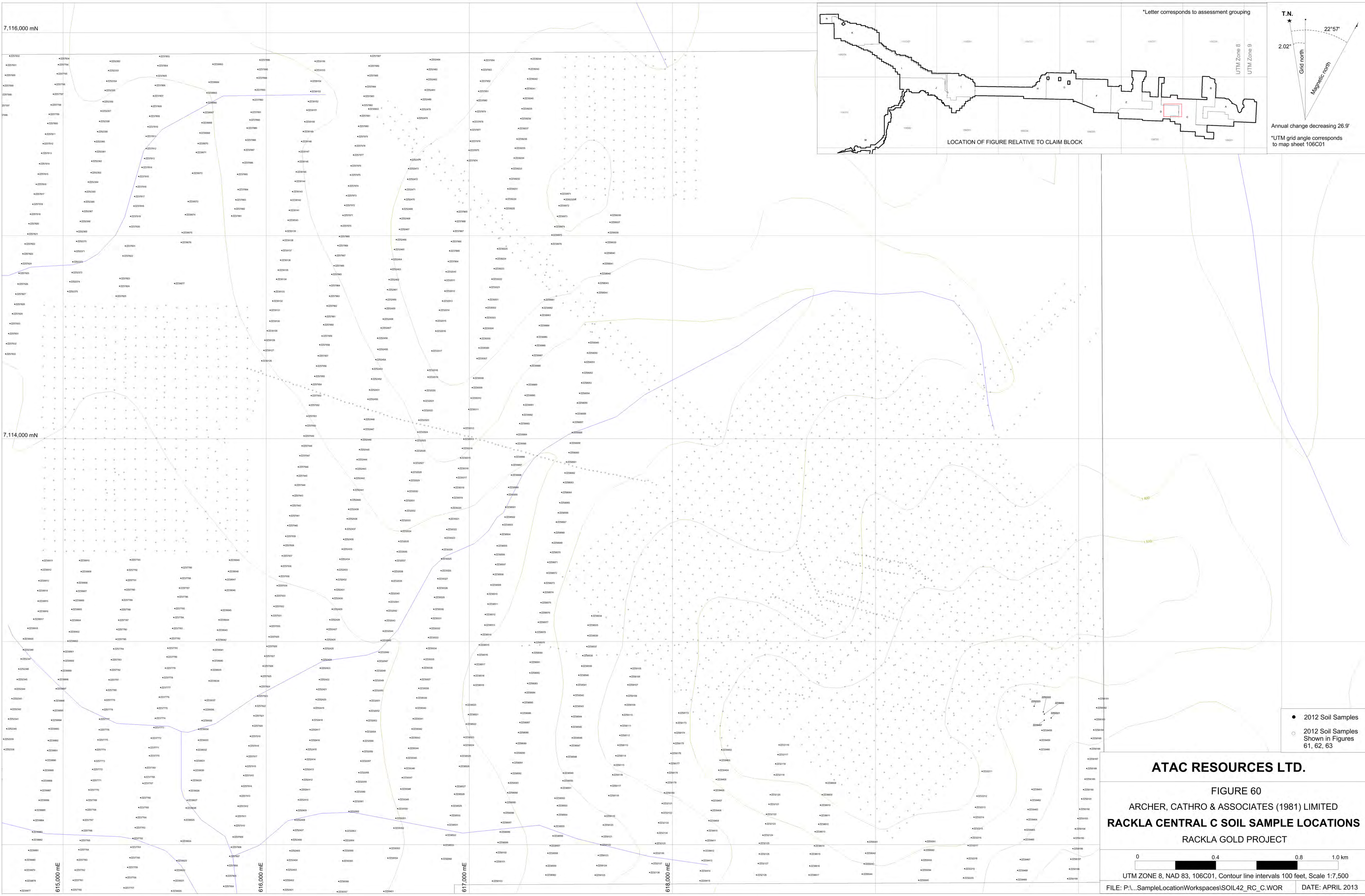
**ATAC RESOURCES LTD.**

**FIGURE 59**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**RACKLA CENTRAL B SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**



● 2012 Soil Samples





**ATAC RESOURCES LTD.**

**FIGURE 60**  
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**RACKLA CENTRAL C SOIL SAMPLE LOCATIONS**  
**RACKLA GOLD PROJECT**

0      0.4      0.8      1.0 km

UTM ZONE 8, NAD 83, 106C01, Contour line intervals 100 feet, Scale 1:7,500

FILE: P:\...SampleLocationWorkspaces\SOIL42\_RC\_C\WOR      DATE: APRIL 2013

- 2012 Soil Samples
- 2012 Soil Samples Shown in Figures 61, 62, 63

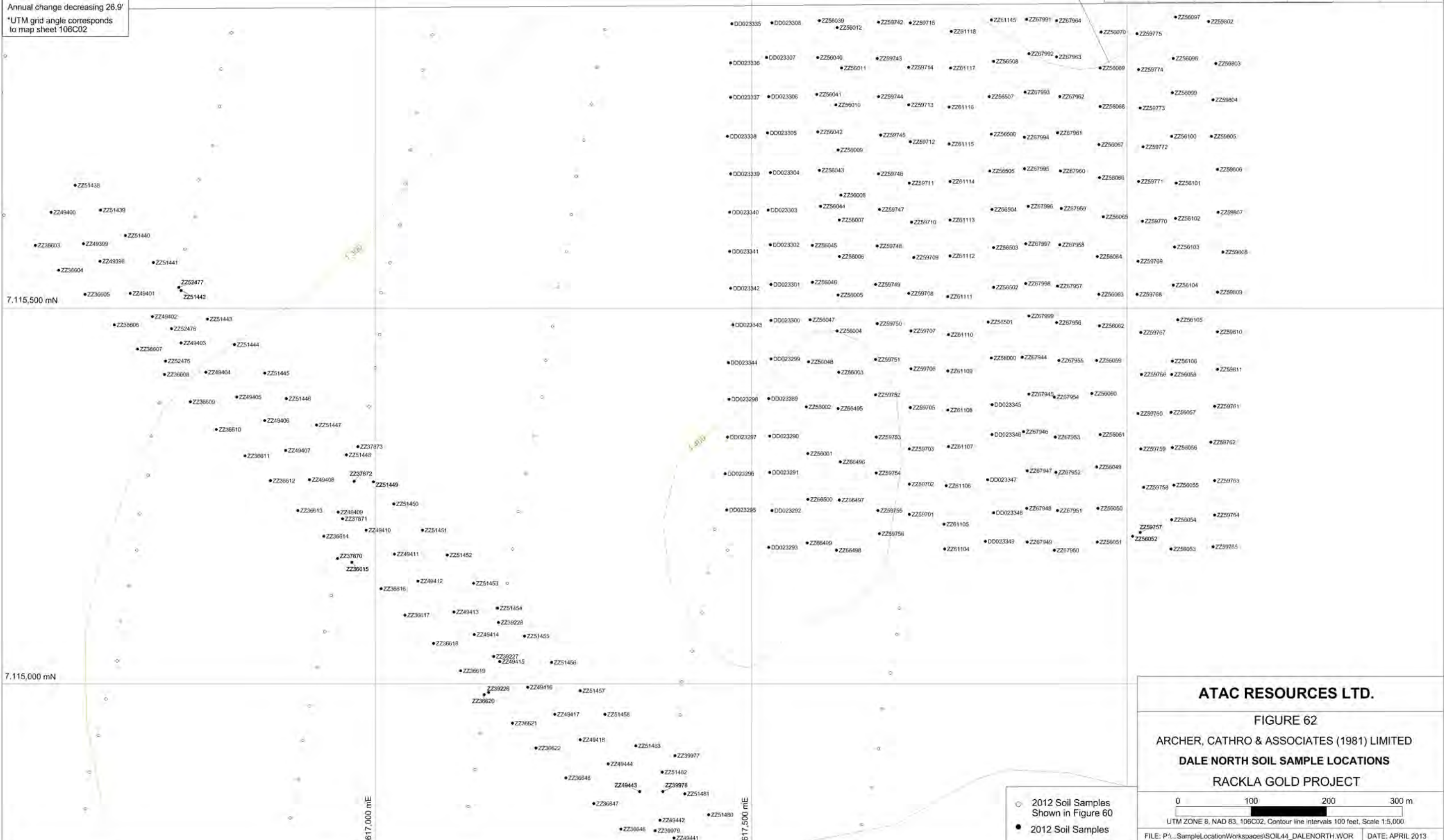
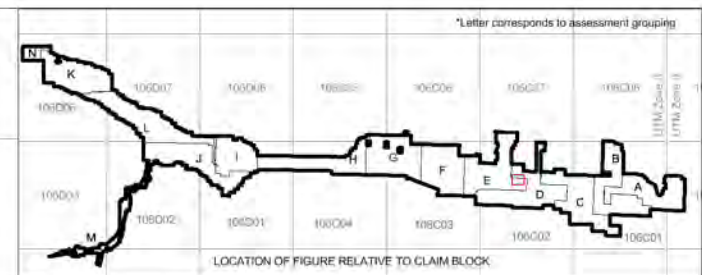






T.N.  
 2.02°  
 Gold north  
 Magnetic north  
 22°57'

Annual change decreasing 26.9'  
 \*UTM grid angle corresponds to map sheet 106C02



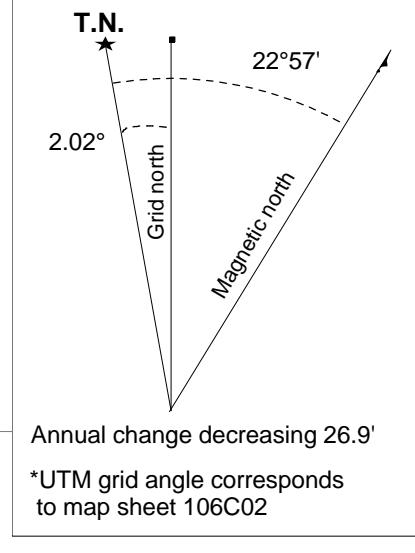
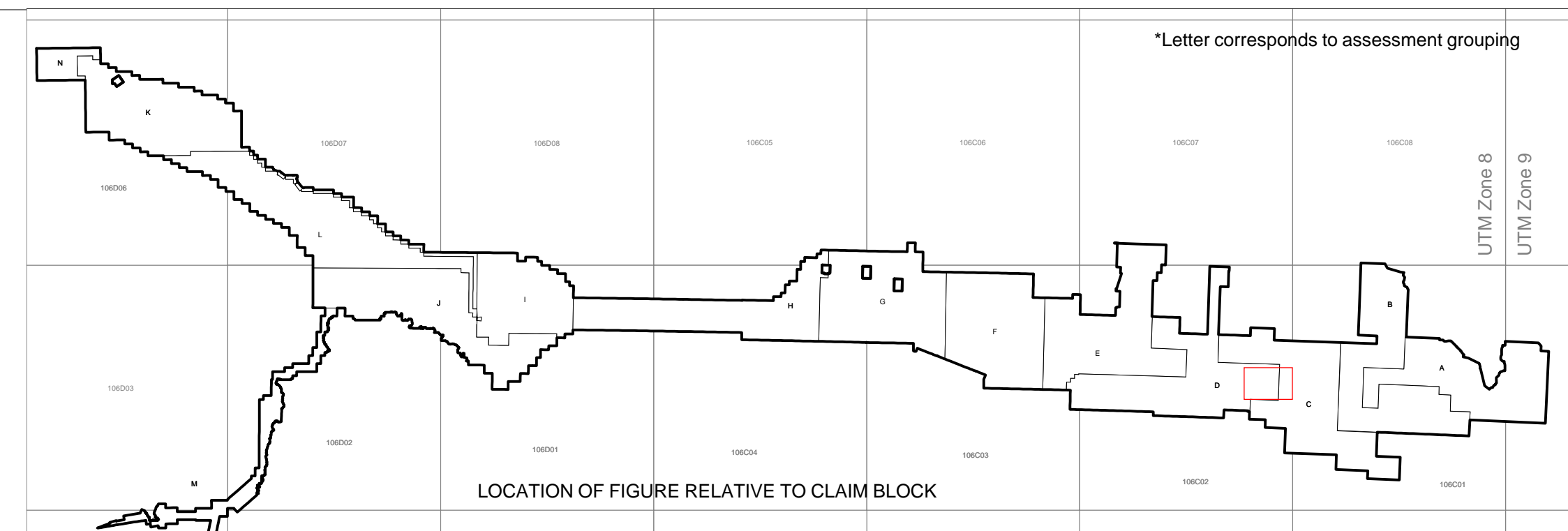
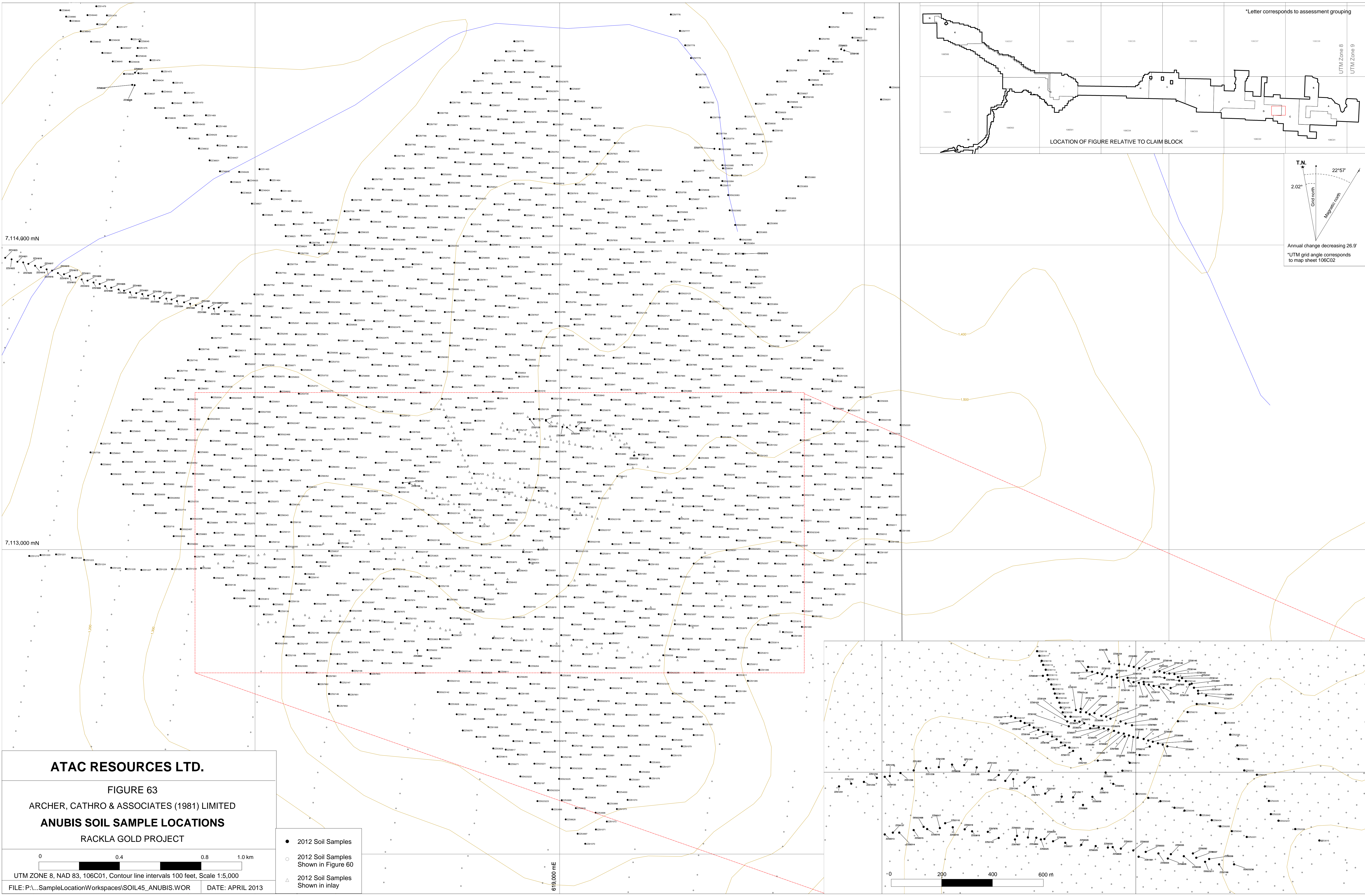
**ATAC RESOURCES LTD.**

FIGURE 62  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
 DALE NORTH SOIL SAMPLE LOCATIONS  
 RACKLA GOLD PROJECT

0 100 200 300 m  
 UTM ZONE 8, NAD 83, 106C02. Contour line intervals 100 feet. Scale 1:5,000

FILE: P:\...SampleLocationWorkspaces\SOIL44\_DALENORTH.WOR DATE: APRIL 2013





**ATAC RESOURCES LTD.**

**FIGURE 63**

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**ANUBIS SOIL SAMPLE LOCATIONS**

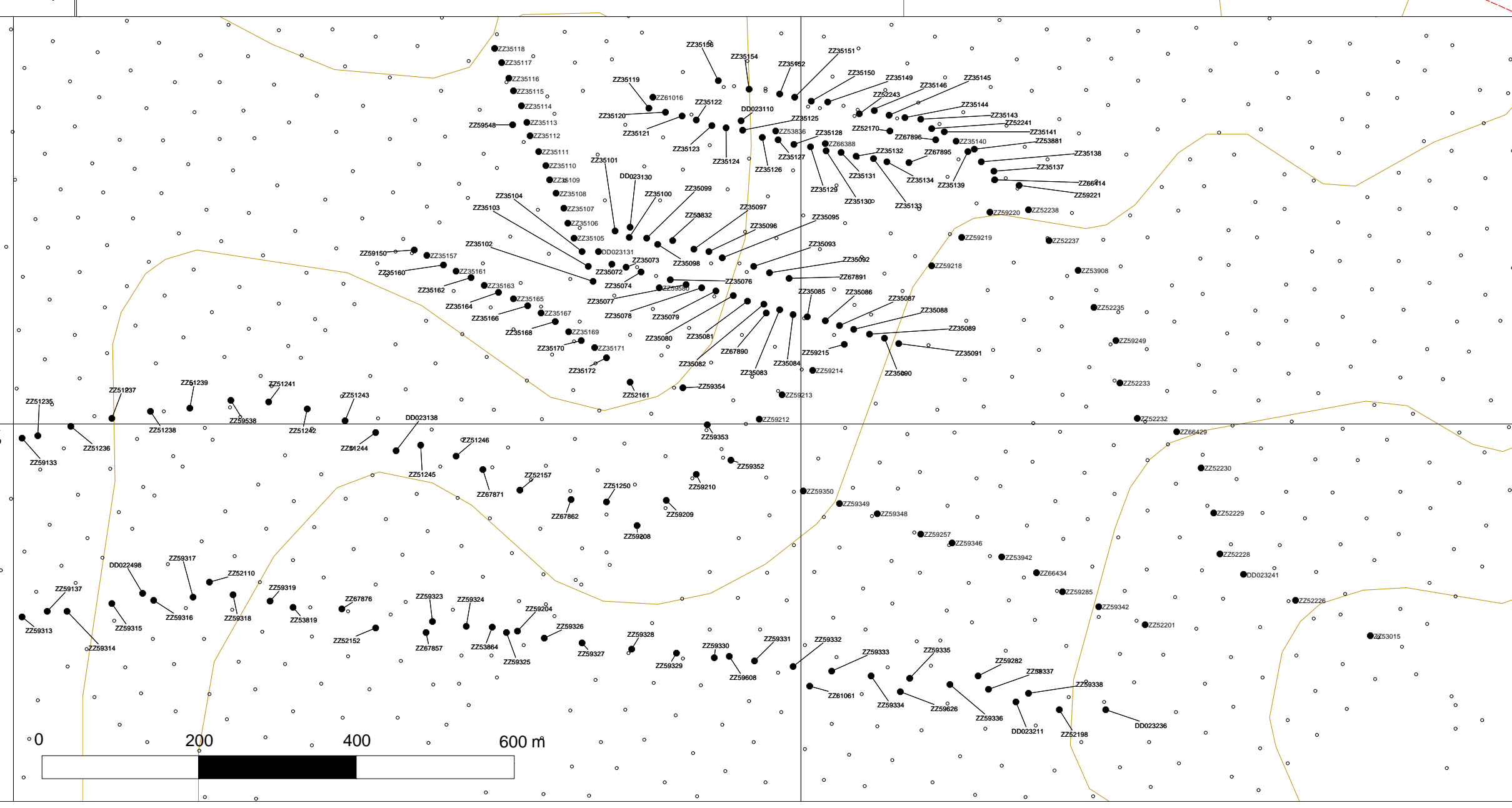
**RACKLA GOLD PROJECT**

0 0.4 0.8 1.0 km

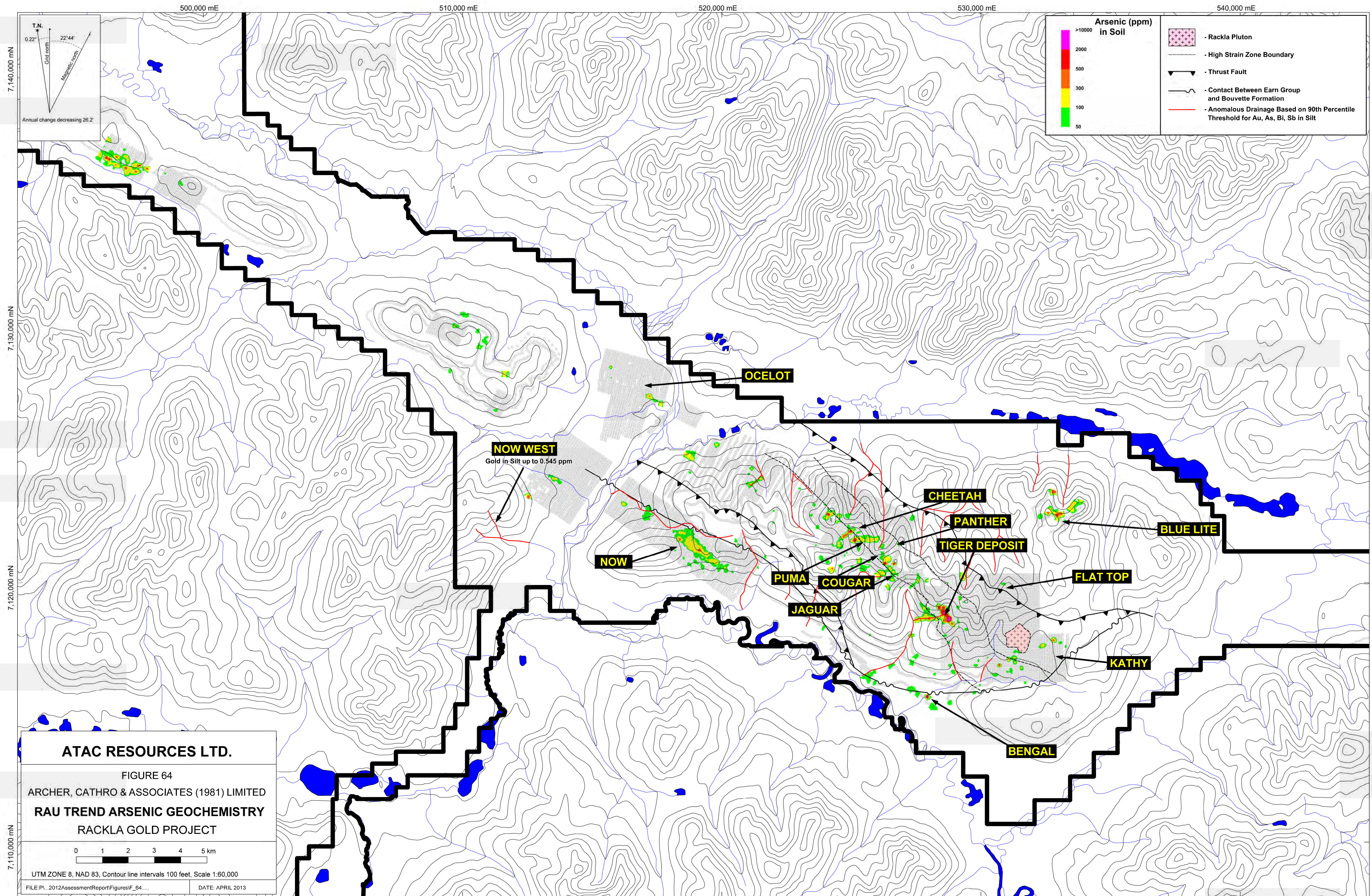
UTM ZONE 8, NAD 83, 106C01, Contour line intervals 100 feet, Scale 1:5,000

FILE: P:\...SampleLocationWorkspaces\SOIL45\_ANUBIS.WOR DATE: APRIL 2013

- 2012 Soil Samples
- 2012 Soil Samples Shown in Figure 60
- △ 2012 Soil Samples Shown in Inlay







T.N.  
0.22°  
Grid north  
22°44'  
Magnetic north  
Annual change decreasing 26.2

**Arsenic (ppm) in Soil**

>10000
2000
500
300
100
50

- Rackla Pluton
- High Strain Zone Boundary
- Thrust Fault
- Contact Between Earn Group and Bouvette Formation
- Anomalous Drainage Based on 90th Percentile Threshold for Au, As, Bi, Sb in Silt

**ATAC RESOURCES LTD.**

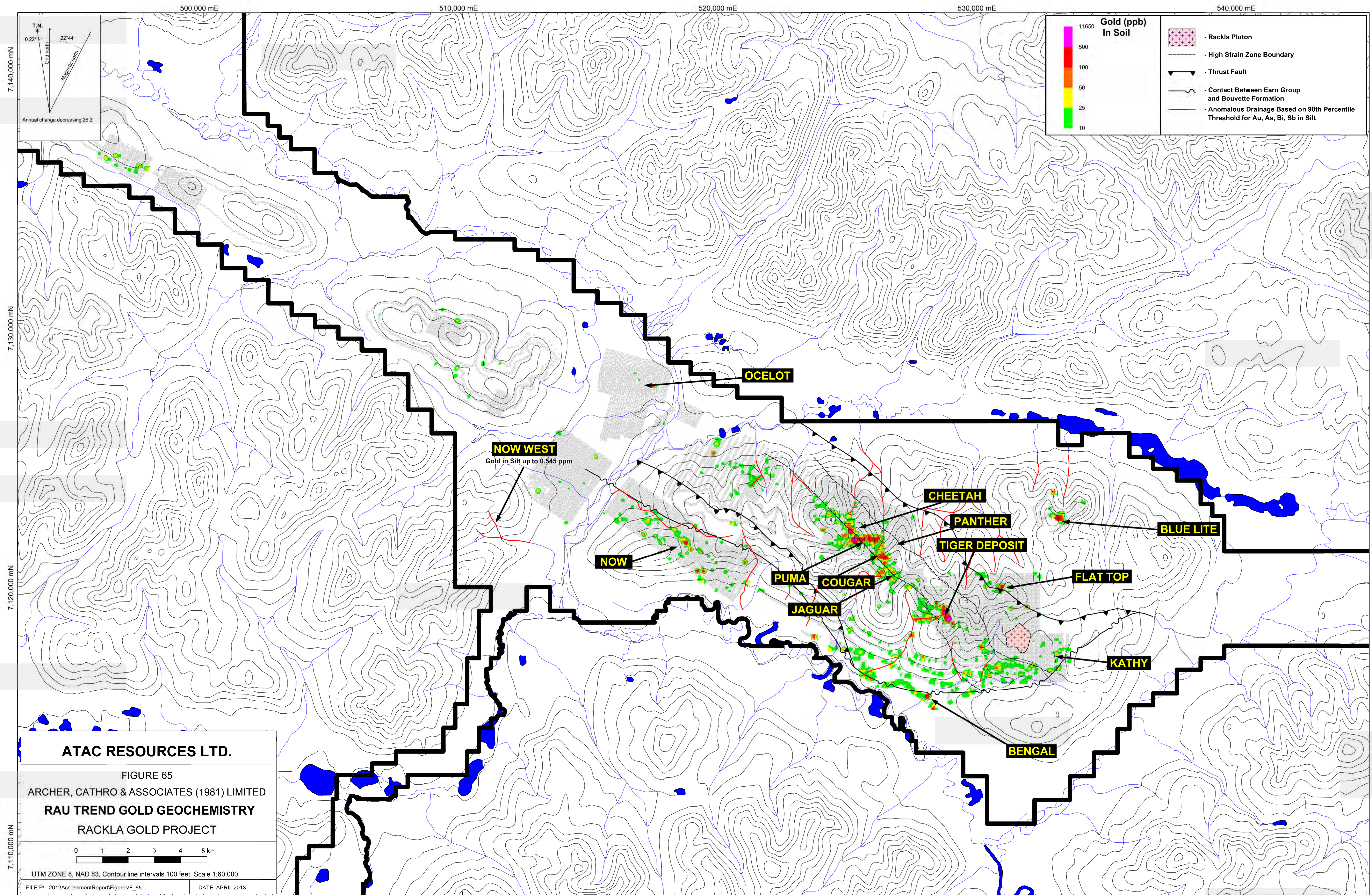
FIGURE 64  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**RAU TREND ARSENIC GEOCHEMISTRY**  
RACKLA GOLD PROJECT

0 1 2 3 4 5 km

UTM ZONE 8, NAD 83, Contour line intervals 100 feet, Scale 1:60,000

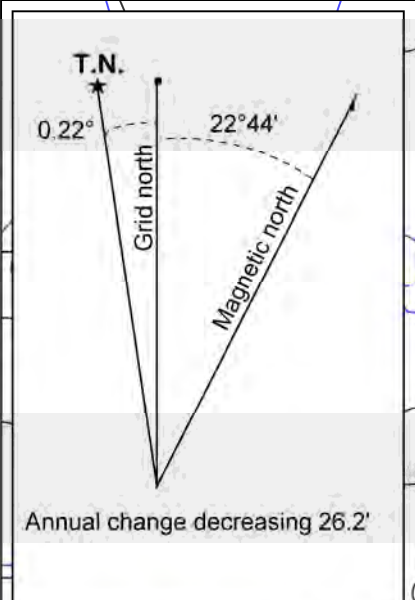
FILE: P:\2012AssessmentReport\Figures\F\_64... DATE: APRIL 2013





7,140,000 mN  
7,130,000 mN  
7,120,000 mN  
7,110,000 mN

500,000 mE 510,000 mE 520,000 mE 530,000 mE 540,000 mE



**Gold (ppb) In Soil**

11650
500
100
50
25
10

- Rackla Pluton
- High Strain Zone Boundary
- Thrust Fault
- Contact Between Earn Group and Bouvette Formation
- Anomalous Drainage Based on 90th Percentile Threshold for Au, As, Bi, Sb in Silt

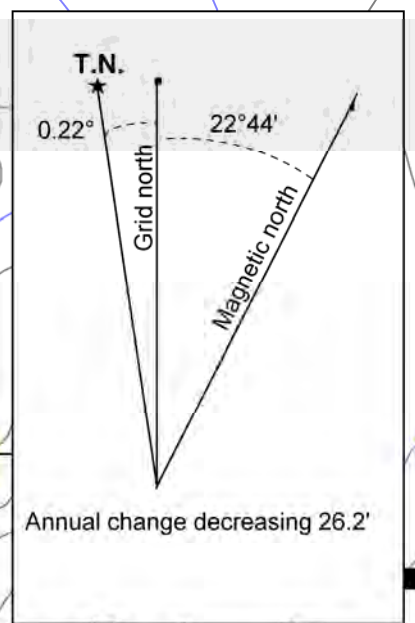
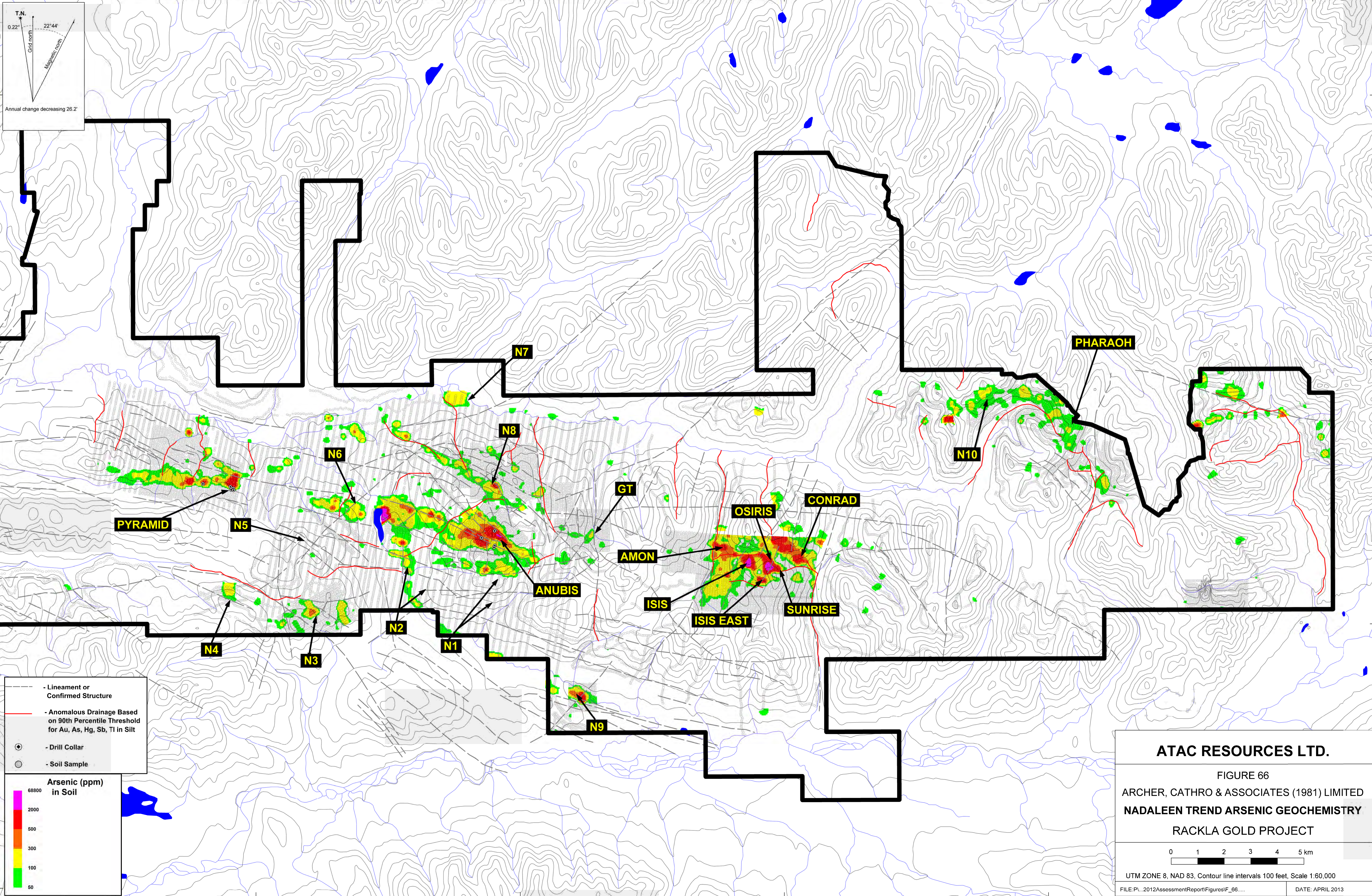
**ATAC RESOURCES LTD.**

FIGURE 65  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**RAU TREND GOLD GEOCHEMISTRY**  
RACKLA GOLD PROJECT

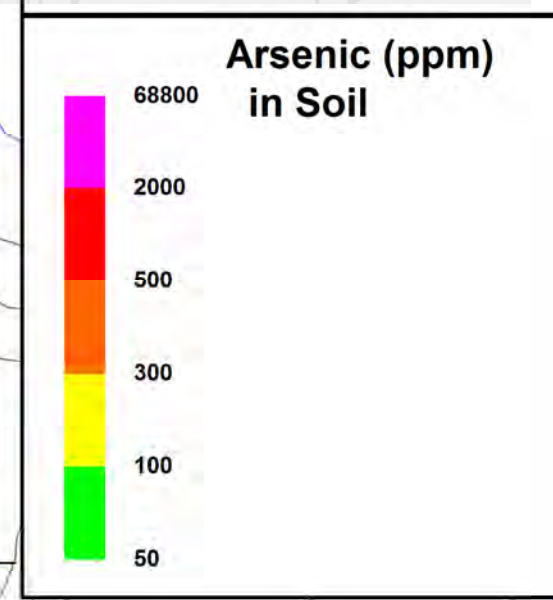
0 1 2 3 4 5 km

UTM ZONE 8, NAD 83, Contour line intervals 100 feet, Scale 1:60,000  
FILE: P:\2012AssessmentReport\Figures\F\_65... DATE: APRIL 2013





- Lineament or Confirmed Structure
- Anomalous Drainage Based on 90th Percentile Threshold for Au, As, Hg, Sb, Tl in Silt
- Drill Collar
- Soil Sample



**ATAC RESOURCES LTD.**

FIGURE 66

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**NADALEEN TREND ARSENIC GEOCHEMISTRY**

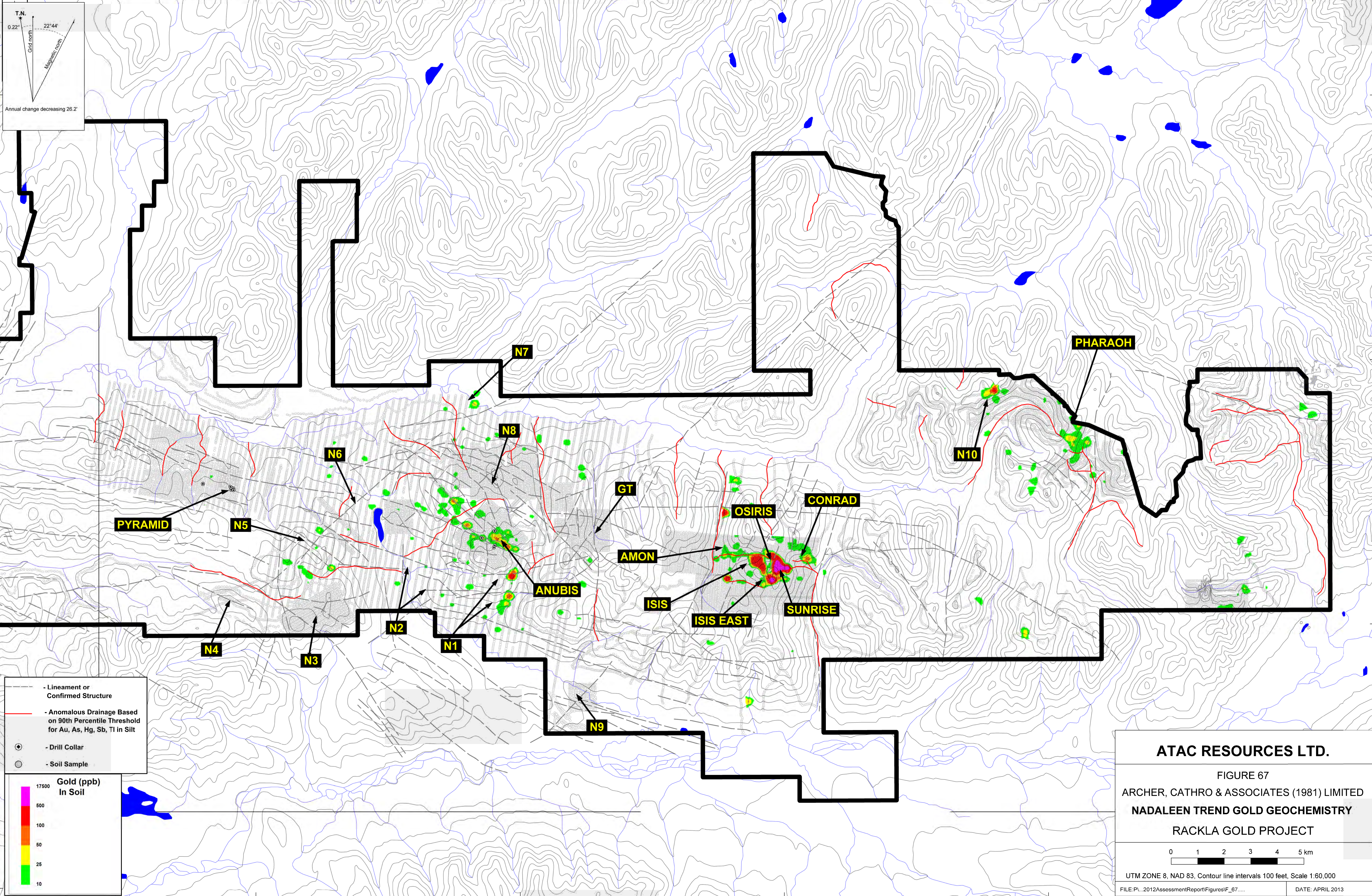
**RACKLA GOLD PROJECT**

0 1 2 3 4 5 km

UTM ZONE 8, NAD 83, Contour line intervals 100 feet, Scale 1:60,000

FILE: P:\\_2012AssessmentReport\Figures\F\_66... DATE: APRIL 2013



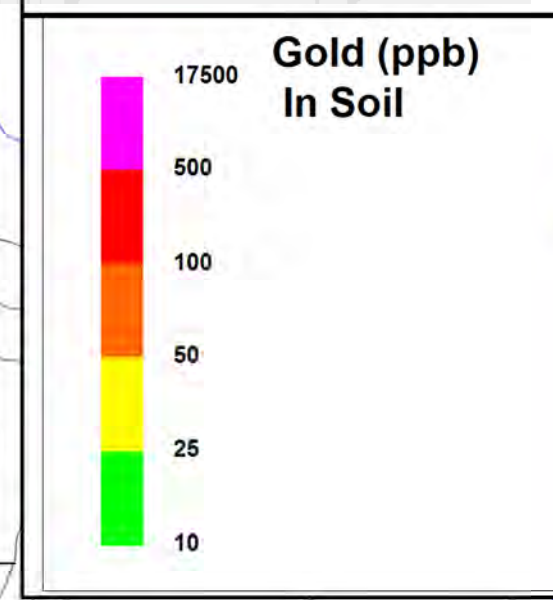


T.N. 0.22' 22'44'

Grid north  
Magnetic north

Annual change decreasing 26.2'

- Lineament or Confirmed Structure
- Anomalous Drainage Based on 90th Percentile Threshold for Au, As, Hg, Sb, Tl in Silt
- Drill Collar
- Soil Sample



**ATAC RESOURCES LTD.**

FIGURE 67

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

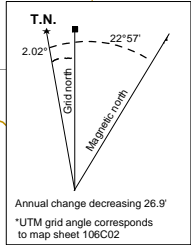
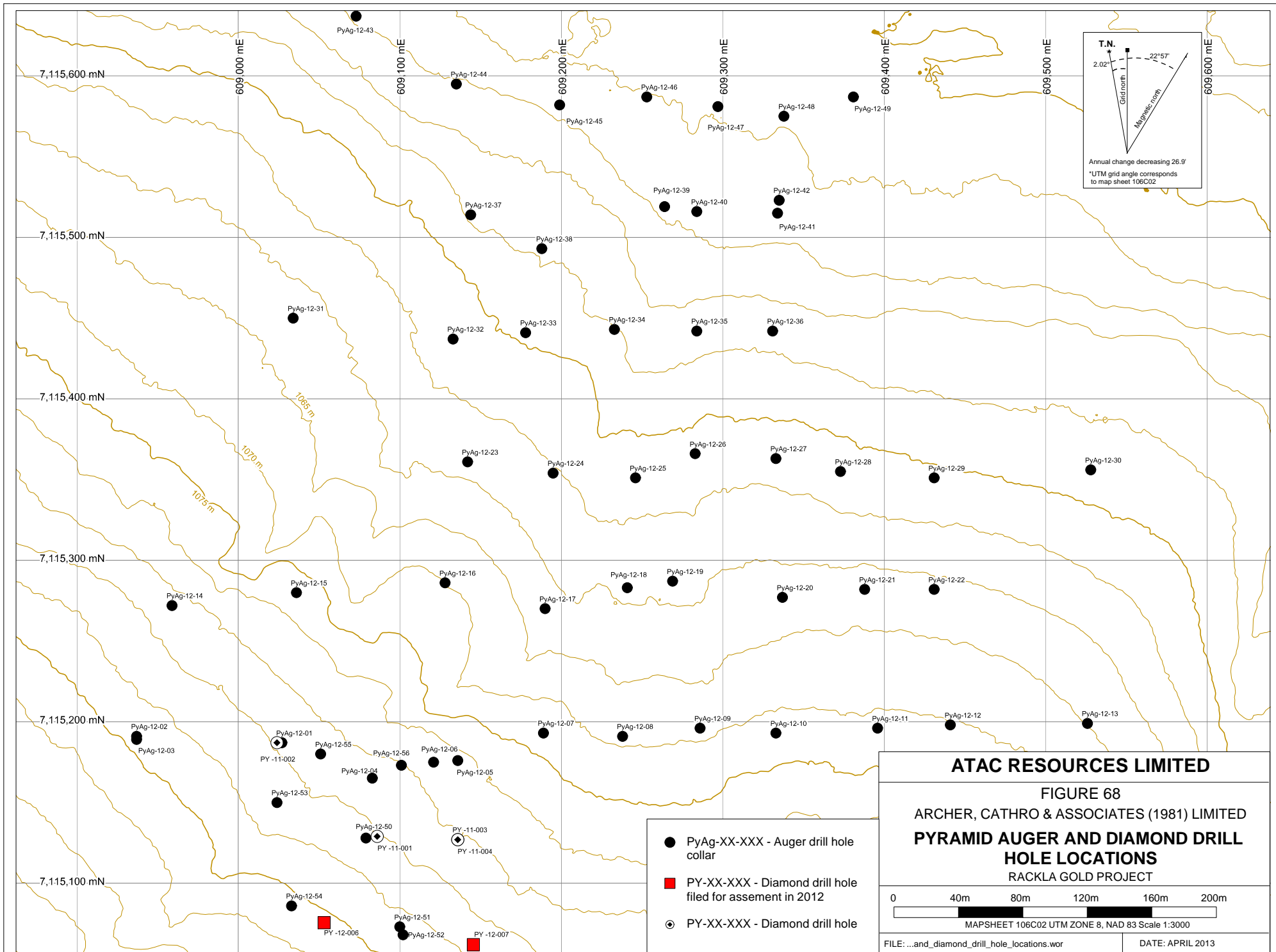
**NADALEEN TREND GOLD GEOCHEMISTRY**

**RACKLA GOLD PROJECT**

UTM ZONE 8, NAD 83, Contour line intervals 100 feet, Scale 1:60,000

FILE: P:\\_2012AssessmentReport\Figures\F\_67..... DATE: APRIL 2013





- PyAg-XX-XXX - Auger drill hole collar
- PY-XX-XXX - Diamond drill hole filed for assesment in 2012
- ⊙ PY-XX-XXX - Diamond drill hole

**ATAC RESOURCES LIMITED**

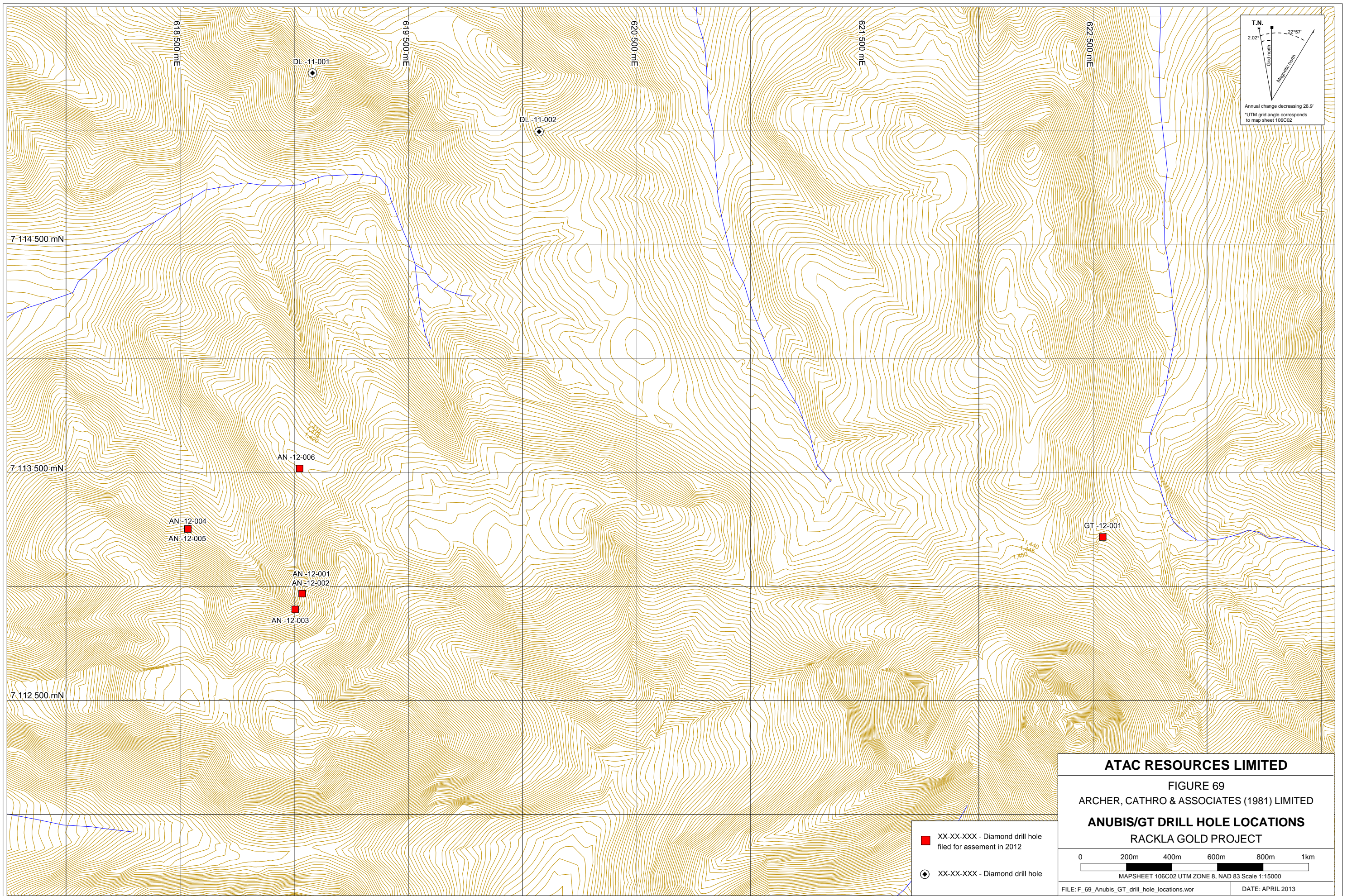
FIGURE 68  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PYRAMID AUGER AND DIAMOND DRILL HOLE LOCATIONS**  
 RACKLA GOLD PROJECT

0      40m      80m      120m      160m      200m

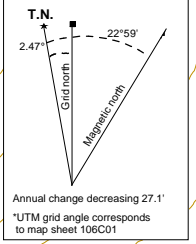
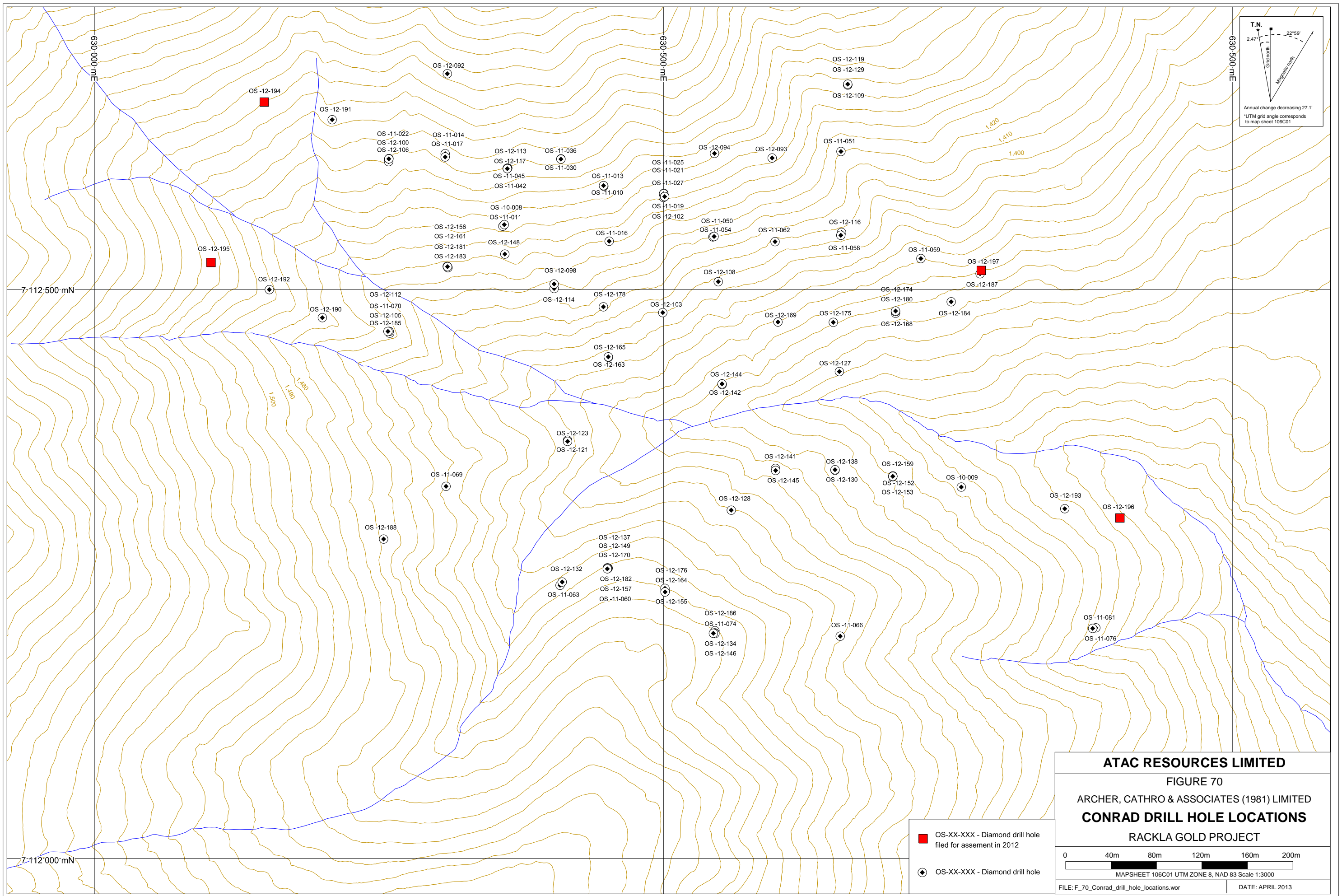
MAPSHEET 106C02 UTM ZONE 8, NAD 83 Scale 1:3000

FILE: ...and\_diamond\_drill\_hole\_locations.wor      DATE: APRIL 2013









**ATAC RESOURCES LIMITED**

FIGURE 70

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CONRAD DRILL HOLE LOCATIONS**

RACKLA GOLD PROJECT

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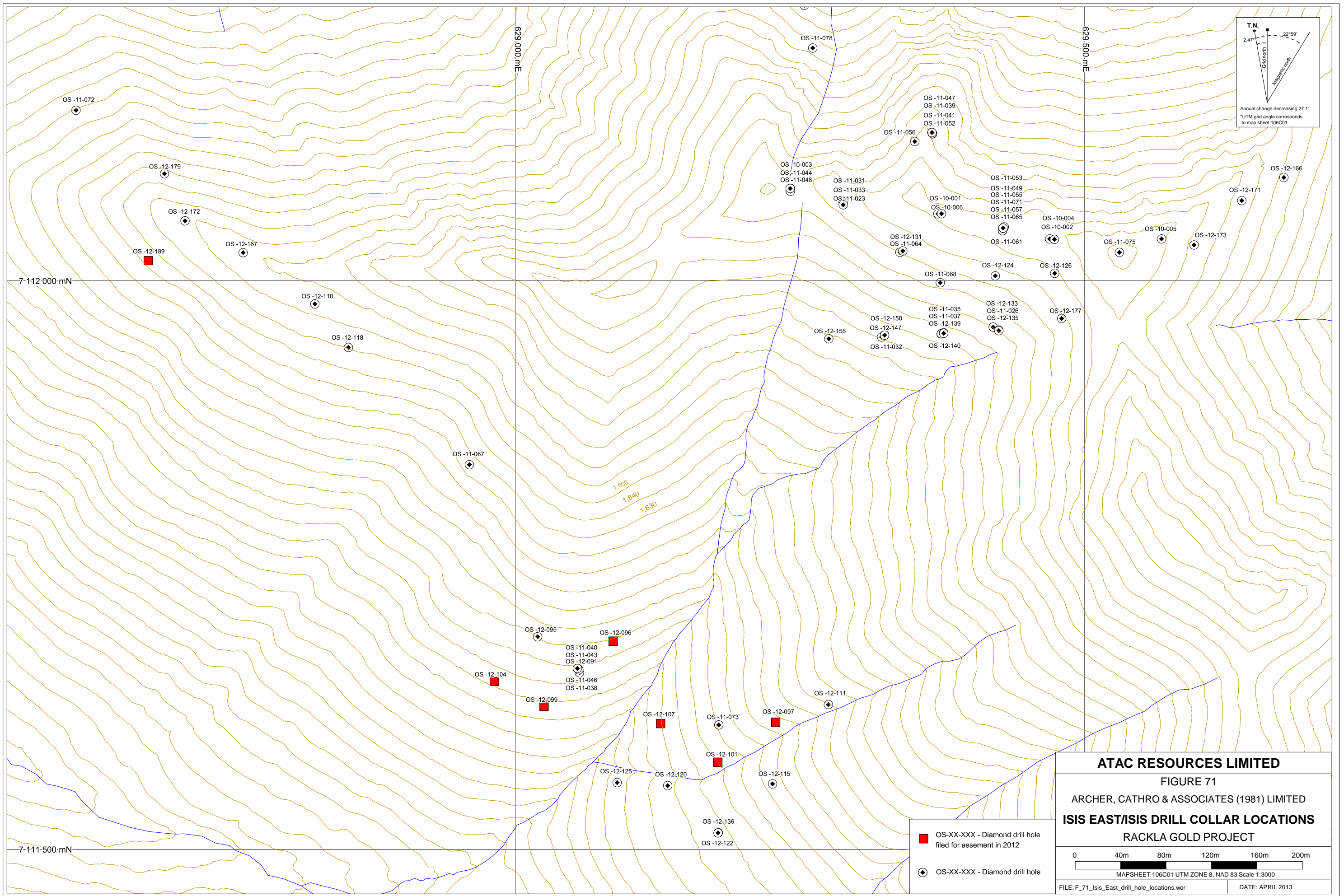
0    40m    80m    120m    160m    200m

MAPSHEET 106C01 UTM ZONE 8, NAD 83 Scale 1:3000

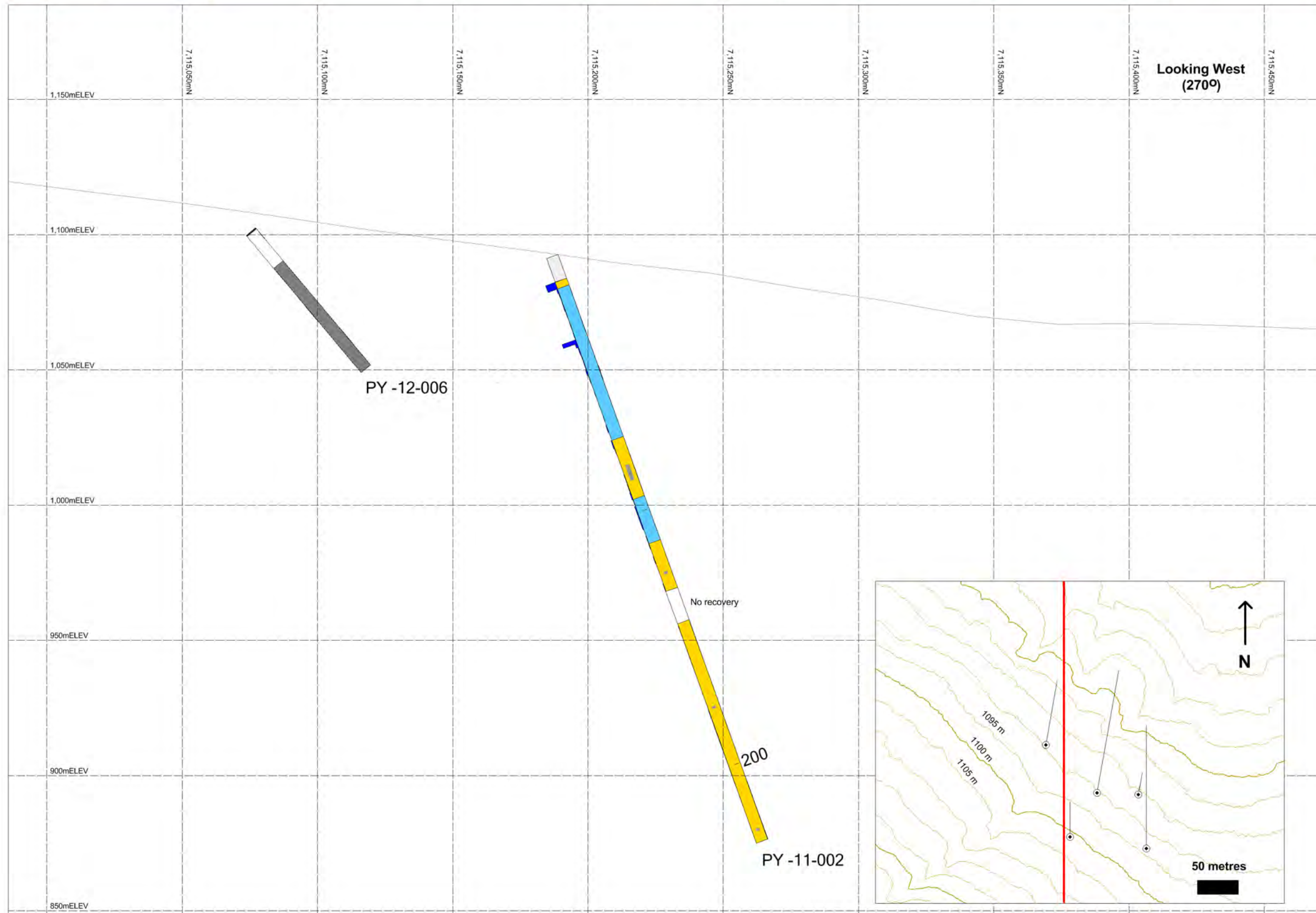
FILE: F\_70\_Conrad\_drill\_hole\_locations.wor    DATE: APRIL 2013

- OS-XX-XXX - Diamond drill hole filed for assment in 2012
- OS-XX-XXX - Diamond drill hole



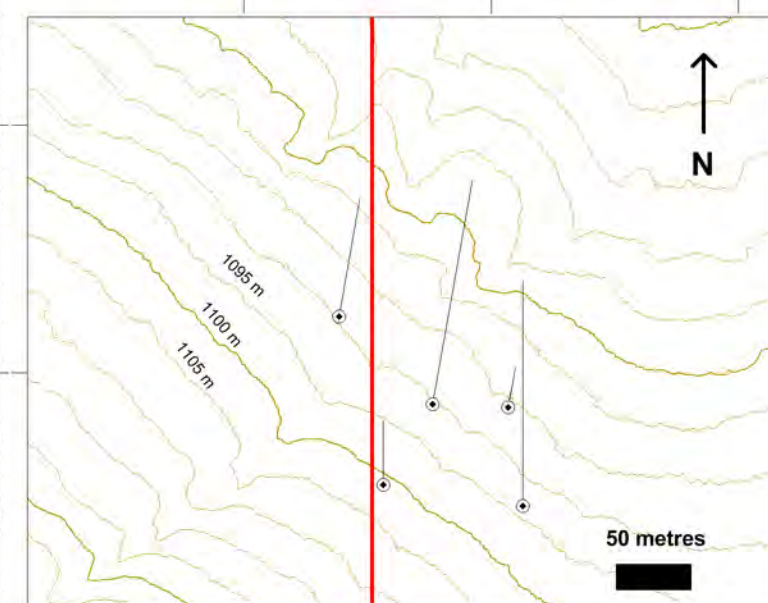






**LEGEND**

- PY-ARG - Black, fine grained carbonaceous argillite
- PY-LST - Highly dolomitized, often brecciated limestone. Variable amounts of galena and sphalerite throughout
- PY-SLC - Non-calcerous siltstones and conglomerates
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section



Section represents a 50 metre envelope

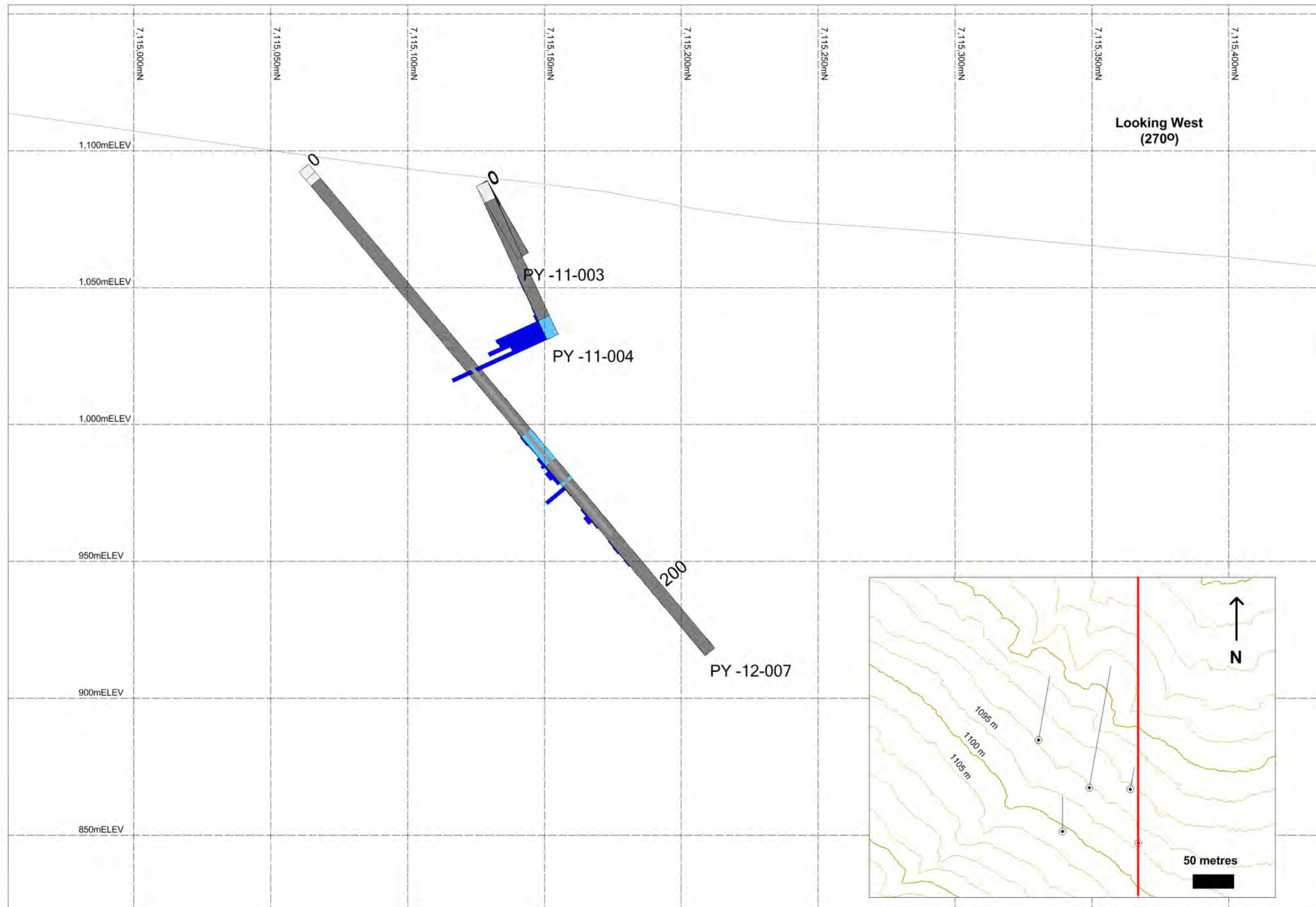
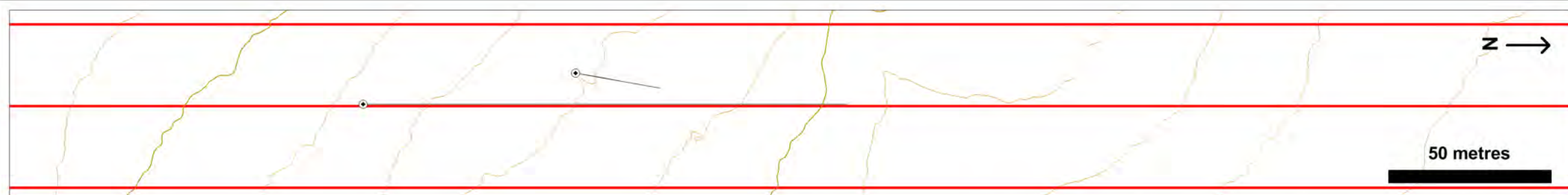
**ATAC RESOURCES LIMITED**

Figure 72  
Rackla Gold Project  
**PYRAMID SECTION PY-12-006**  
Archer Cathro and Associates (1981) Ltd.

0m 10m 20m 30m 40m 50m  
NAD 83 ZN 8 Scale 1:1500

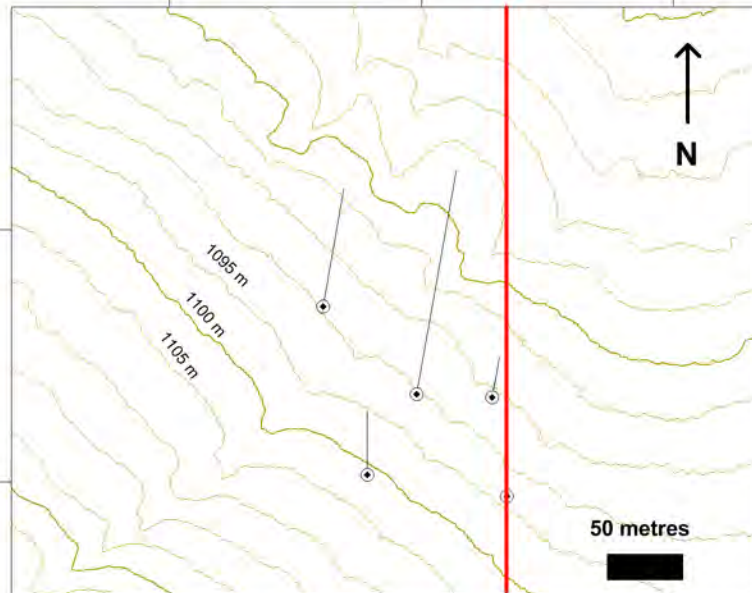
...Section\_PY\_12\_006.wor | April 2013





**LEGEND**

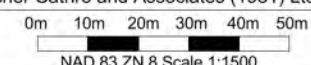
- PY-ARG - Black, fine grained carbonaceous argillite
- PY-LST - Highly dolomitized, often brecciated limestone. Variable amounts of galena and sphalerite throughout
- PY-SLC - Non-calcerous siltstones and conglomerates
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- + Hole exits section



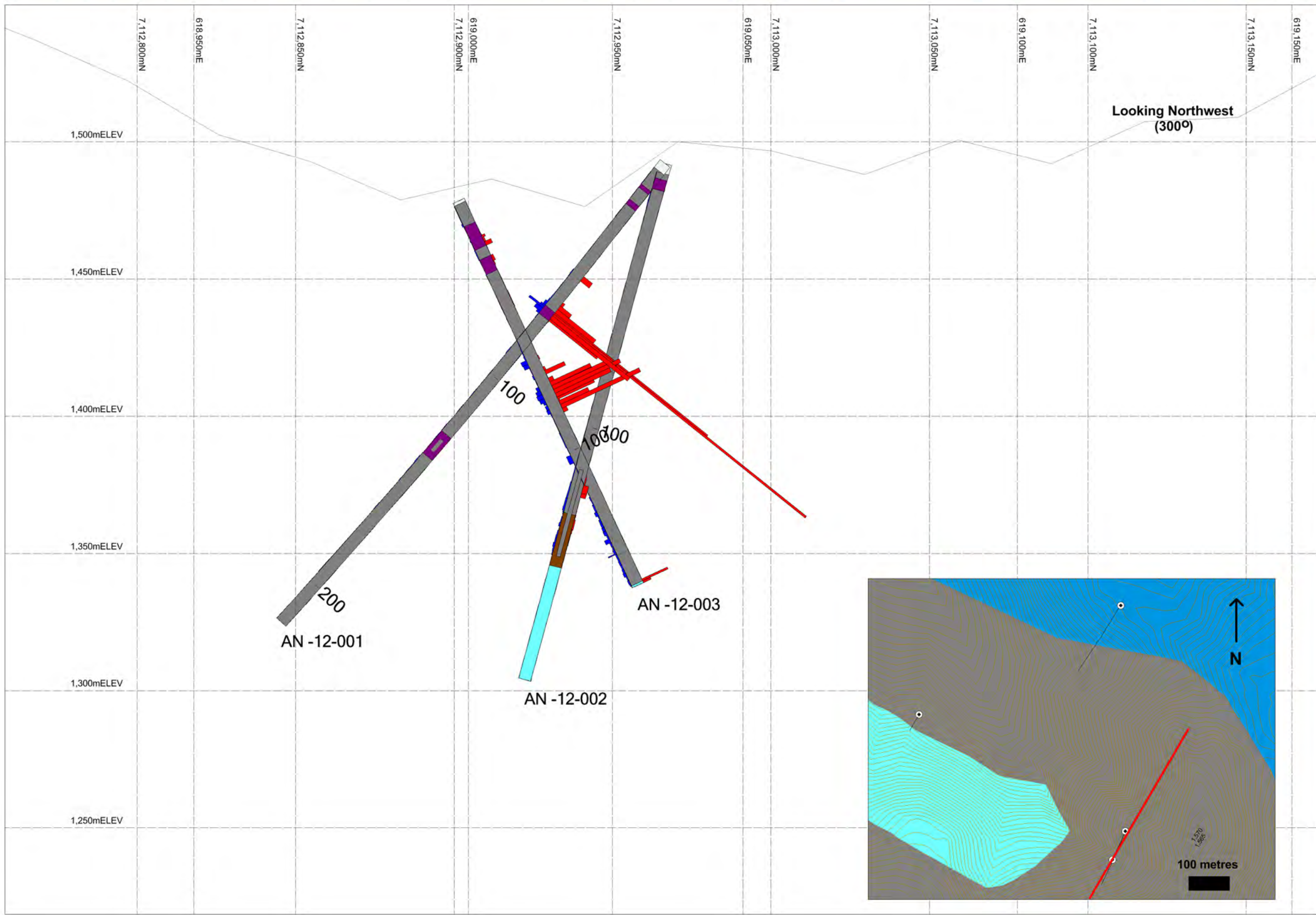
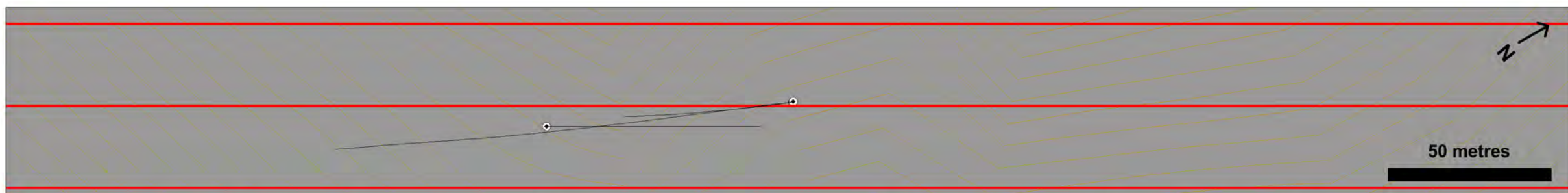
Section represents a 50 metre envelope

**ATAC RESOURCES LIMITED**

Figure 73  
 Rackla Gold Project  
**PYRAMID SECTION PY-12-007**  
 Archer Cathro and Associates (1981) Ltd.

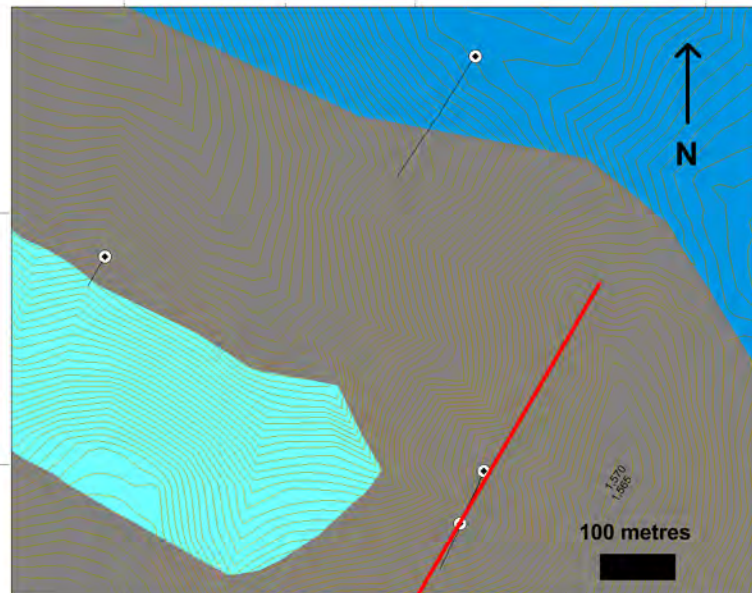






**LEGEND**

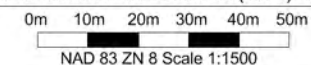
-  AN-FLT - Fault rock
-  AN-LST3 - Well bedded, light grey to tan coloured, variably crystalline lime micrite and fossiliferous packstones/wackestones
-  AN-LST4 - Grey to tan weathering silty lime micrite
-  AN-ARG1 - Dark coloured, extremely carbonaceous, variably siliceous argillite unit
-  AN-LST2 - Pale grey, massive to poorly bedded, blocky weathering lime micrite unit.
-  AN-SLT - Siltstone, variably calcareous
-  AN-LST1 - Blue to dark grey, thickly bedded fossiliferous lime floatstone
-  Gold 1 mm = 1 ppm
-  Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
-  Gouge zone
-  Shear/strain zone
-  Fault zone
-  Hole enters section
-  Hole exits section



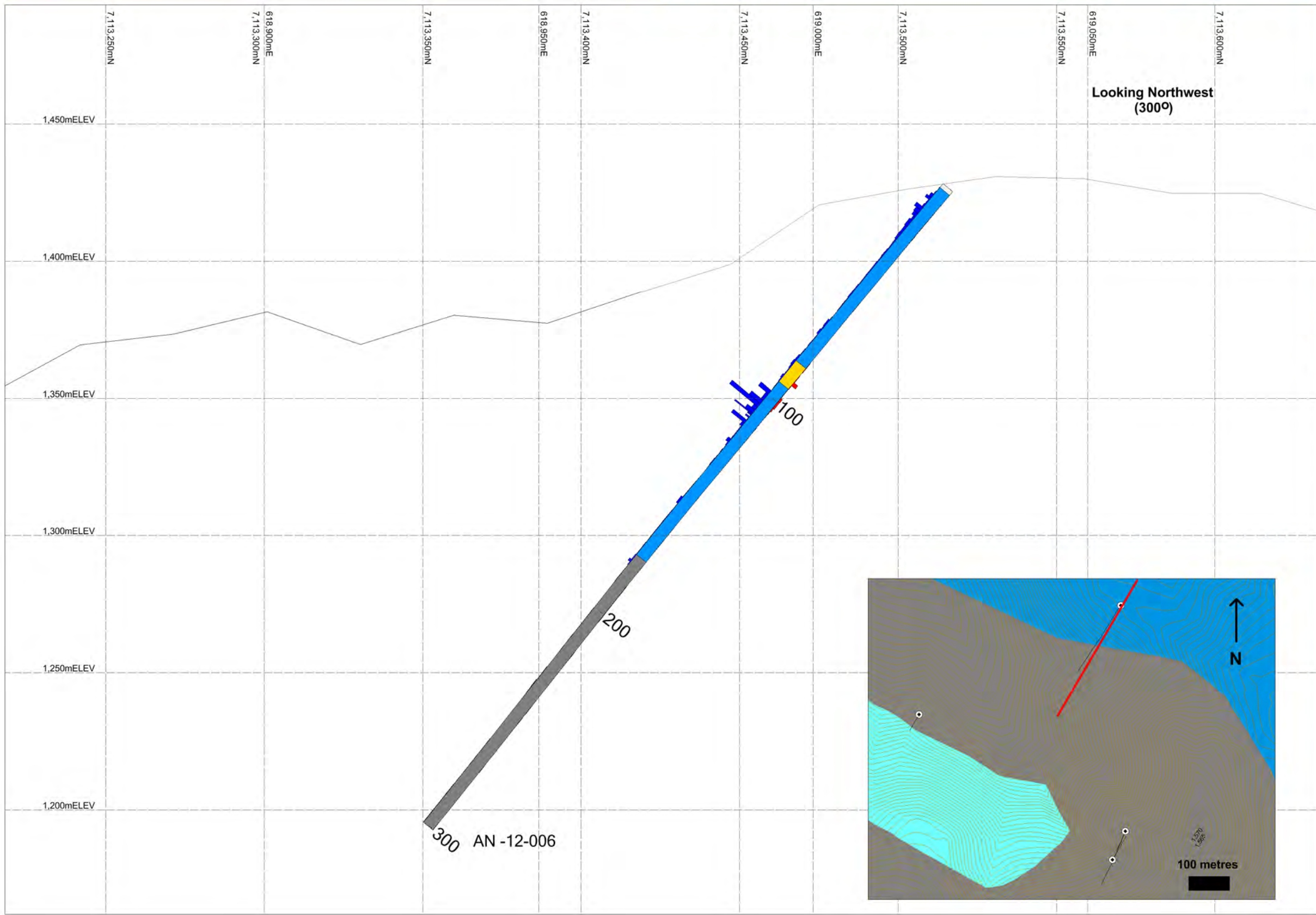
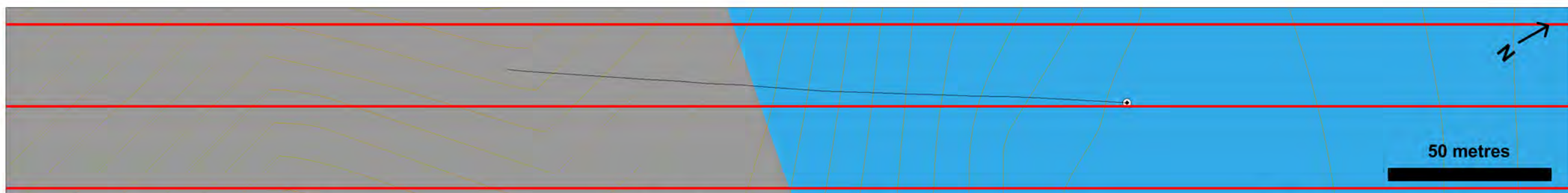
Section represents a 50 metre envelope

**ATAC RESOURCES LIMITED**















Figure 74  
Rackla Gold Project  
**ANUBIS SECTION AN\_EAST**  
Archer Cathro and Associates (1981) Ltd.

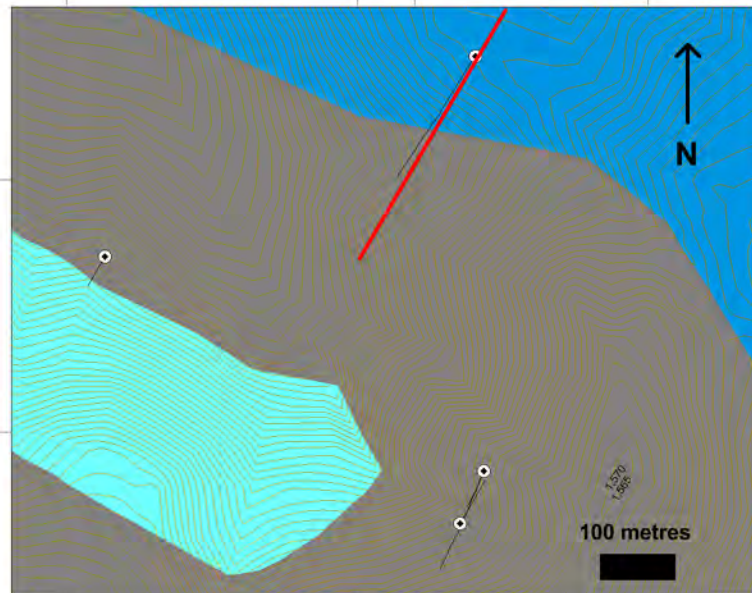






**LEGEND**

-  AN-FLT - Fault rock
-  AN-LST3 - Well bedded, light grey to tan coloured, variably crystalline lime micrite and fossiliferous packstones/wackestones
-  AN-LST4 - Grey to tan weathering silty lime micrite
-  AN-ARG1 - Dark coloured, extremely carbonaceous, variably siliceous argillite unit
-  AN-LST2 - Pale grey, massive to poorly bedded, blocky weathering lime micrite unit
-  AN-SLT - Siltstone, variably calcareous
-  AN-LST1 - Blue to dark grey, thickly bedded fossiliferous lime floatstone
-  Gold 1 mm = 1 ppm
-  Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
-  Gouge zone
-  Shear/strain zone
-  Fault zone
-  Hole enters section
-  Hole exits section



Section represents a 50 metre envelope

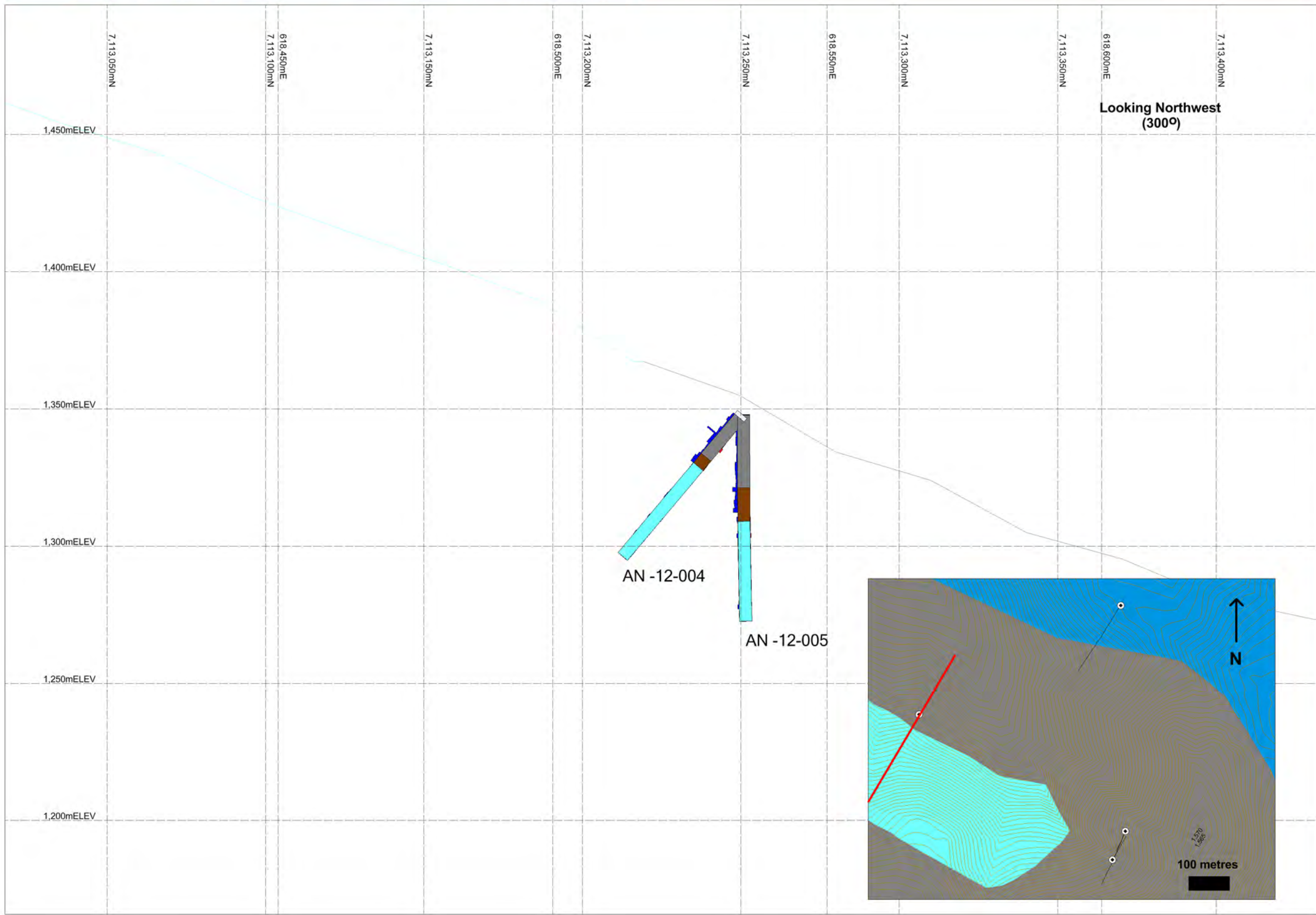
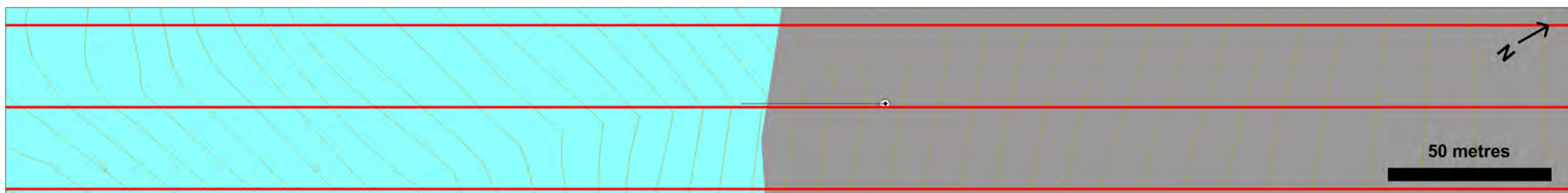
**ATAC RESOURCES LIMITED**

Figure 75  
Rackla Gold Project  
**ANUBIS SECTION AN\_CENTRAL**  
Archer Cathro and Associates (1981) Ltd.



NAD 83 ZN 8 Scale 1:1500





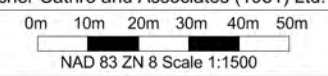
**LEGEND**

- AN-FLT - Fault rock
- AN-LST3 - Well bedded, light grey to tan coloured, variably crystalline lime micrite and fossiliferous packstones/wackestones
- AN-LST4 - Grey to tan weathering silty lime micrite
- AN-ARG1 - Dark coloured, extremely carbonaceous, variably siliceous argillite unit
- AN-LST2 - Pale grey, massive to poorly bedded, blocky weathering lime micrite unit.
- AN-SLT - Siltstone, variably calcareous
- AN-LST1 - Blue to dark grey, thickly bedded fossiliferous lime floatstone
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section

Section represents a 50 metre envelope

**ATAC RESOURCES LIMITED**

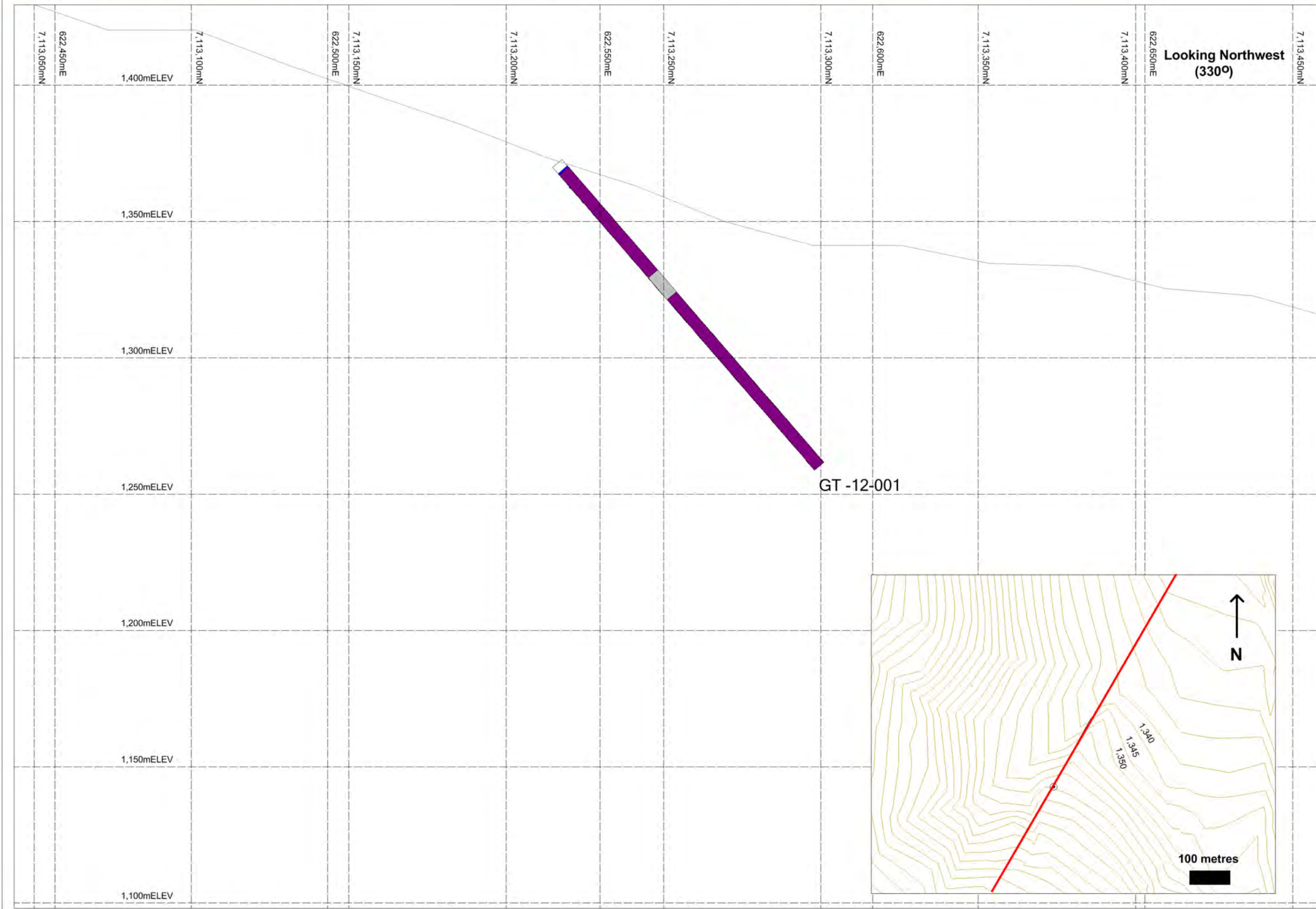
Figure 76  
 Rackla Gold Project  
**ANUBIS SECTION AN\_WEST**  
 Archer Cathro and Associates (1981) Ltd.





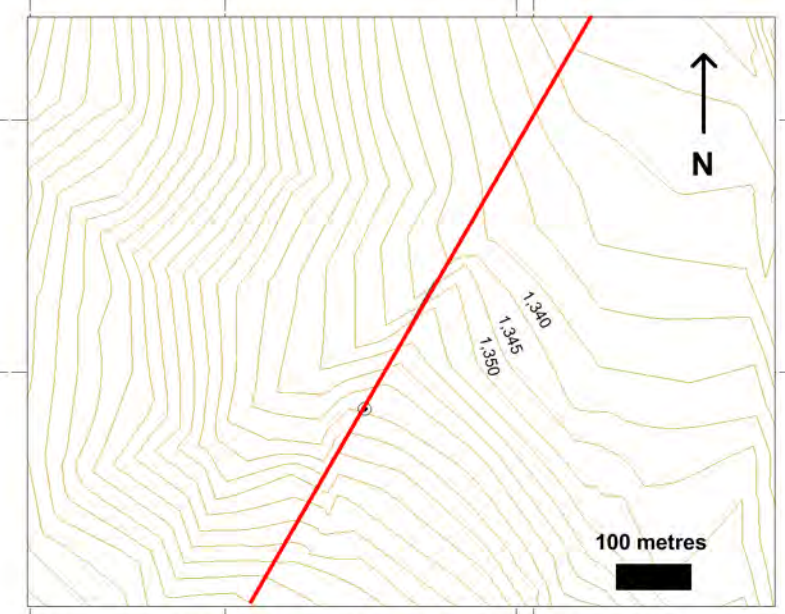


50 metres



**LEGEND**

- LST - Black, calcite veined micrite
- DST - Light grey, blocky, variably fractured dolostone/dolomiticrite
- MST - Green, terrigenous mudstone
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- + Hole exits section



Section represents a 50 metre envelope

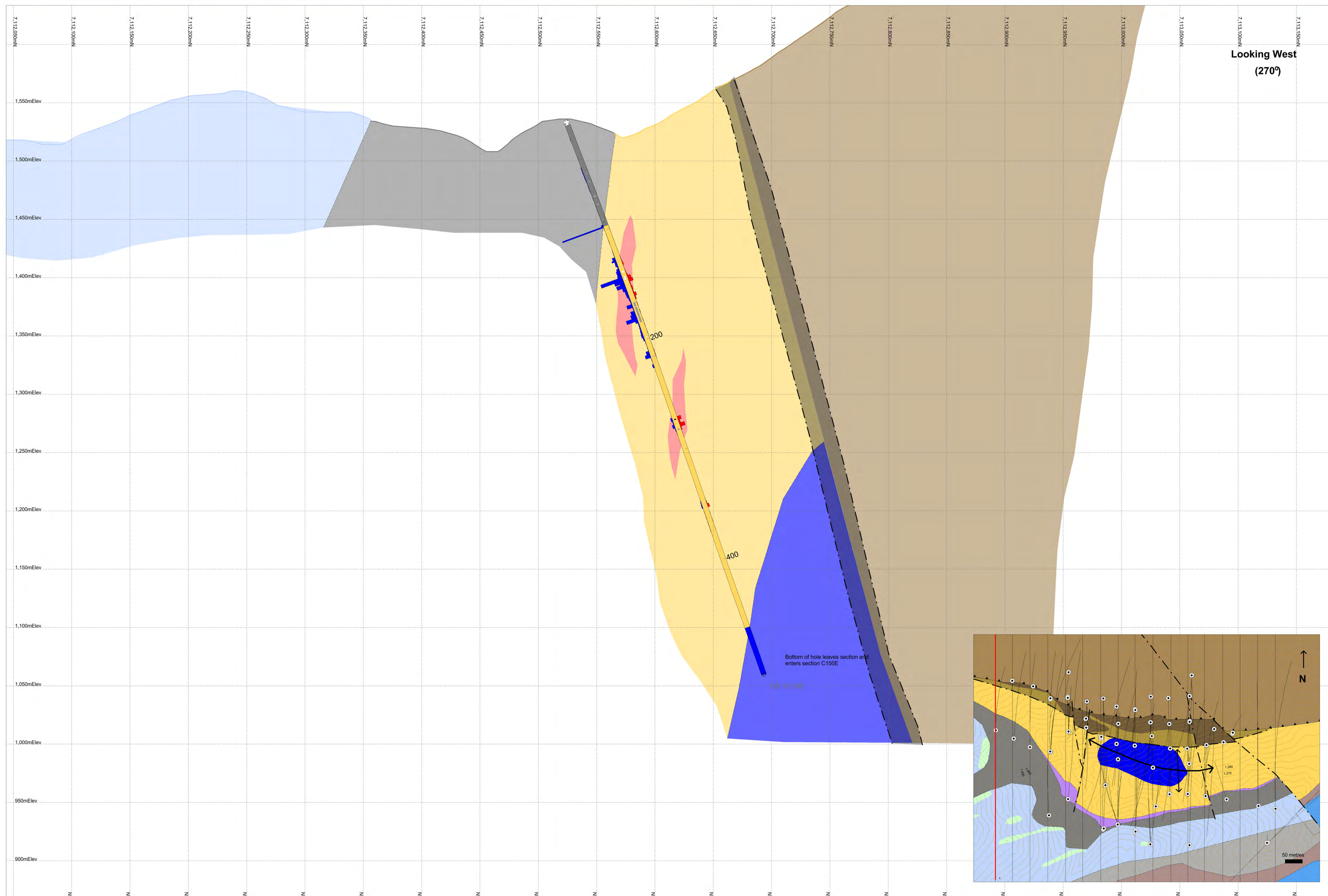
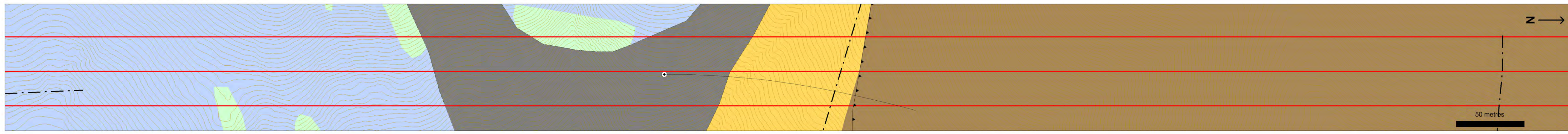
**ATAC RESOURCES LIMITED**

Figure 77  
Rackla Gold Project  
**GT SECTION GT-12-001**  
Archer Cathro and Associates (1981) Ltd.

0m 10m 20m 30m 40m 50m  
NAD 83 ZN 8 Scale 1:1500

...section\_GT\_12\_001.wor | April 2013

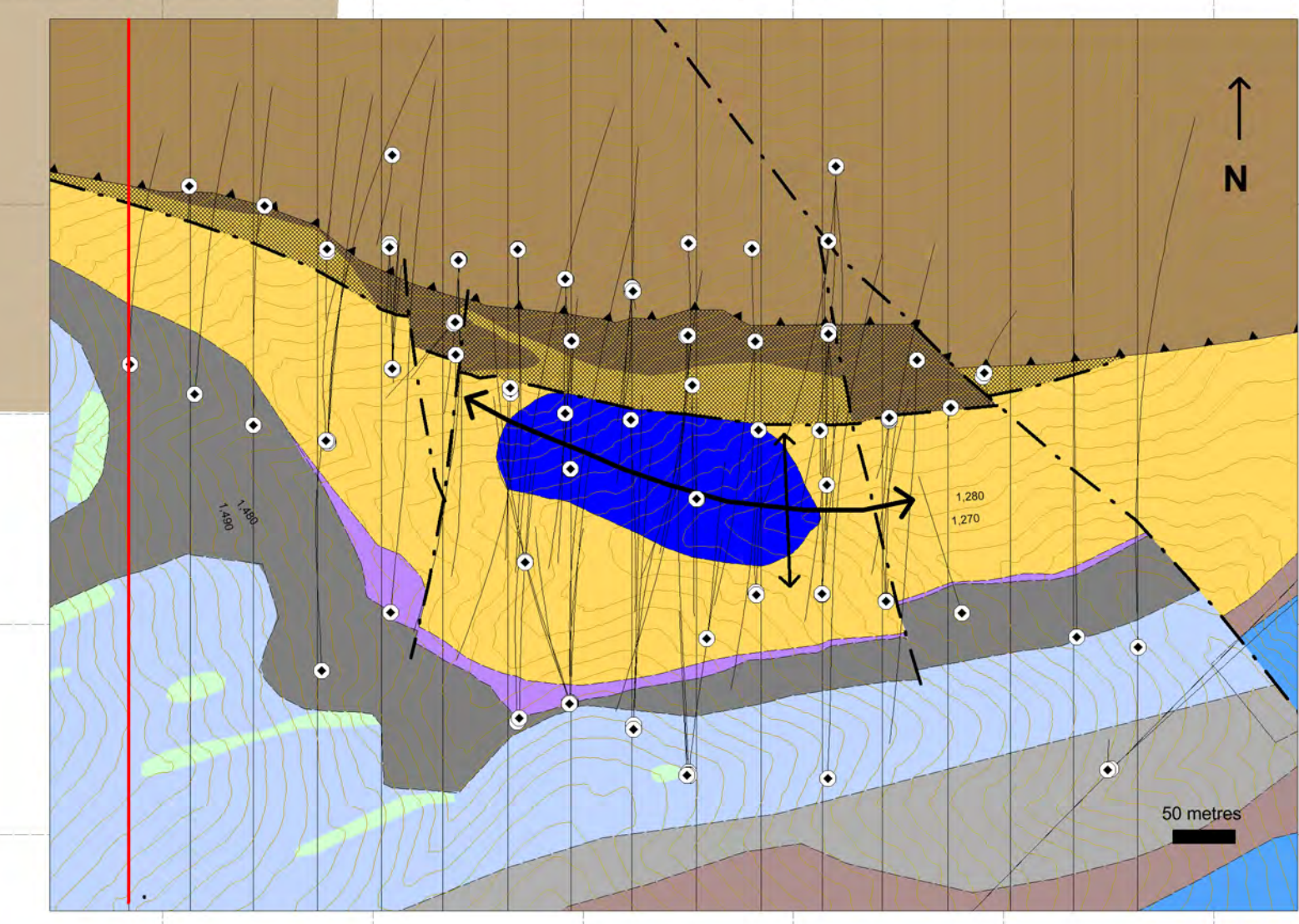




**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Oafris Dolostone O-DST
- Oafris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Carbonate Debrites C-DMT
- Calciclastic rocks C-LST2 Dark, crystalline limestone with carbonate debrites
- Black shale C-SHL
- Conrad Dolostone C-DST
- Conrad Siliciclastics C-SLC Pyritic siltstone, sandstone, poorly sorted pebble conglomerate
- Conrad Limestone C-LST1
- NONAD Mudstone with minor conglomerate and sandstone
- Nadaleen fault zone
- Gold 1mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50,000
- Gouge Zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section

Section represents a 50 metre envelope centered along 630100 mE



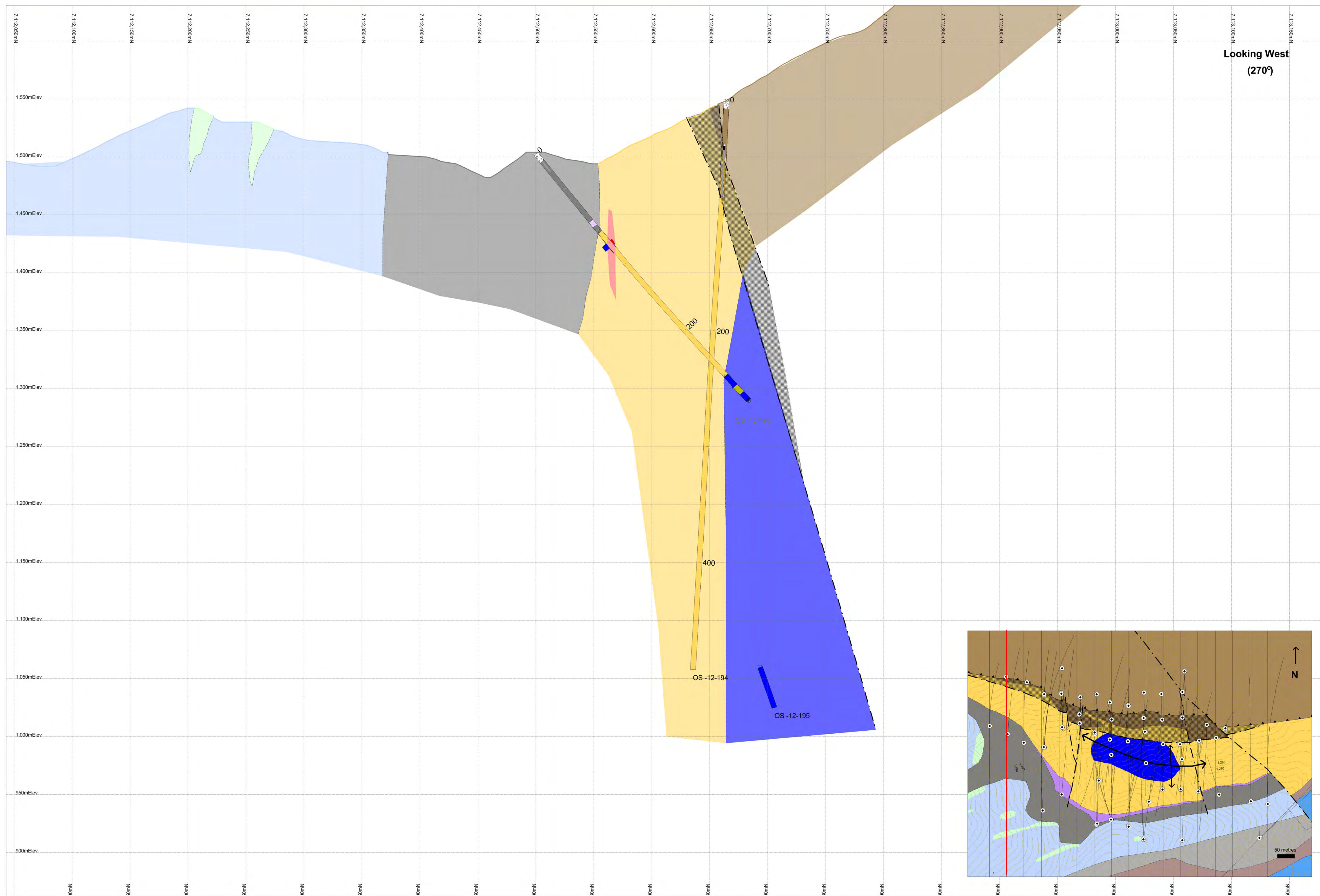
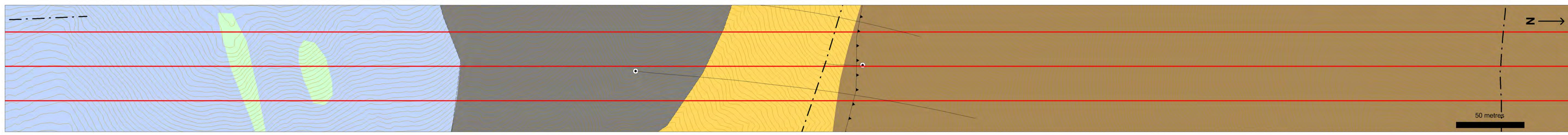
**ATAC RESOURCES LIMITED**

FIGURE 78  
Archer Cathro and Associates (1981) Ltd.  
**CONRAD SECTION C100E**  
Rackla Gold Project

0m 20m 40m 60m 80m 100m  
UTM NAD 83 ZONE 8 Scale 1:1500

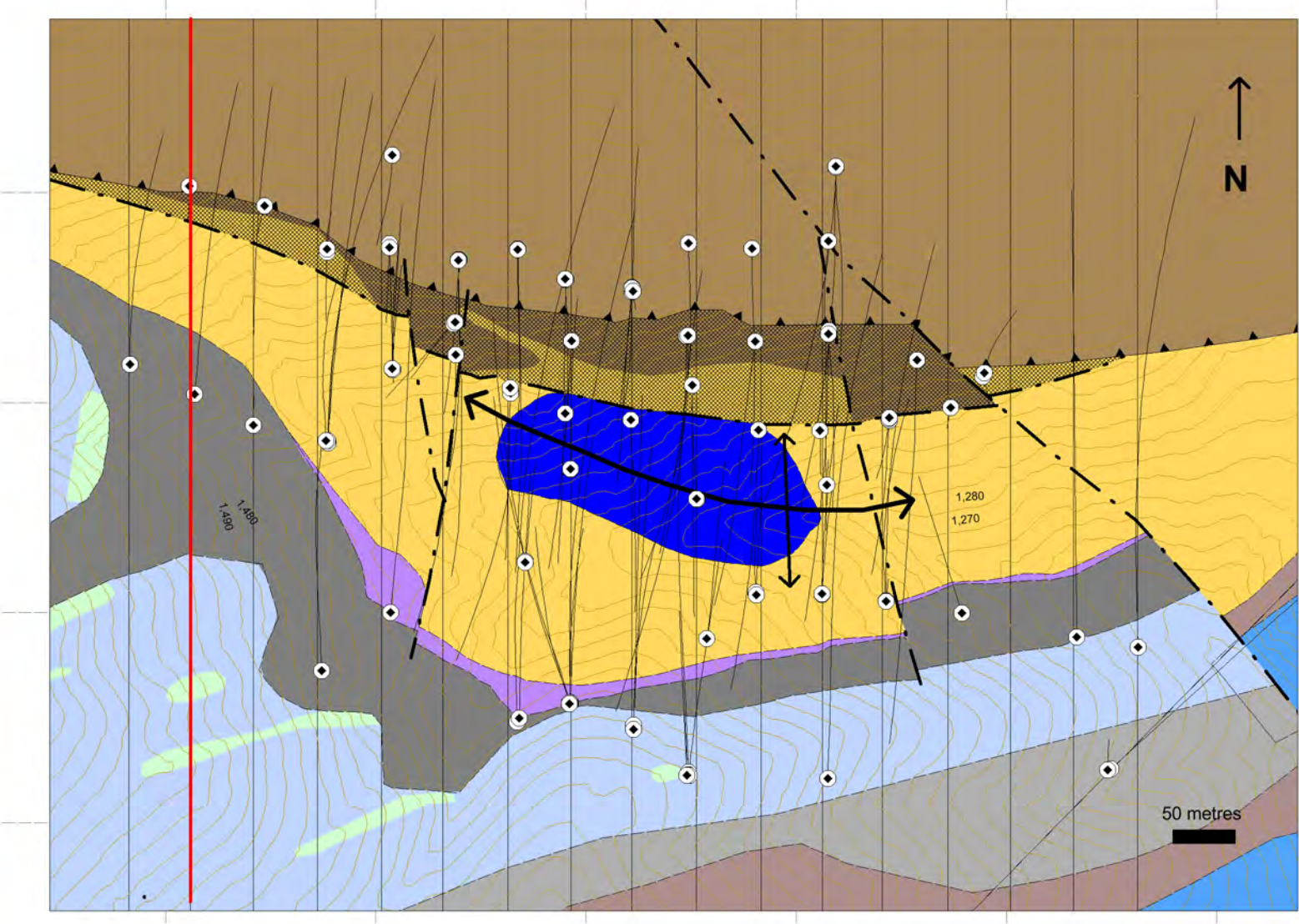
F\_78\_Conrad\_section\_C150E.wor      APRIL 2013





**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Oairis Dolostone O-DST
- Oairis silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Carbonate Debrites C-DMT
- Calciclastic rocks C-LST2 Dark, crystalline limestone with carbonate debrites
- Black shale C-SHL
- Conrad Dolostone C-DST
- Conrad Siliciclastics C-SLC Pyritic siltstone, sandstone, poorly sorted pebble conglomerate
- Conrad Limestone C-LST1
- NONAD Mudstone with minor conglomerate and sandstone
- Nadaleen fault zone
- Gold 1mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50,000
- Gouge Zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section



Section represents a 50 metre envelope centered along 630150 mE

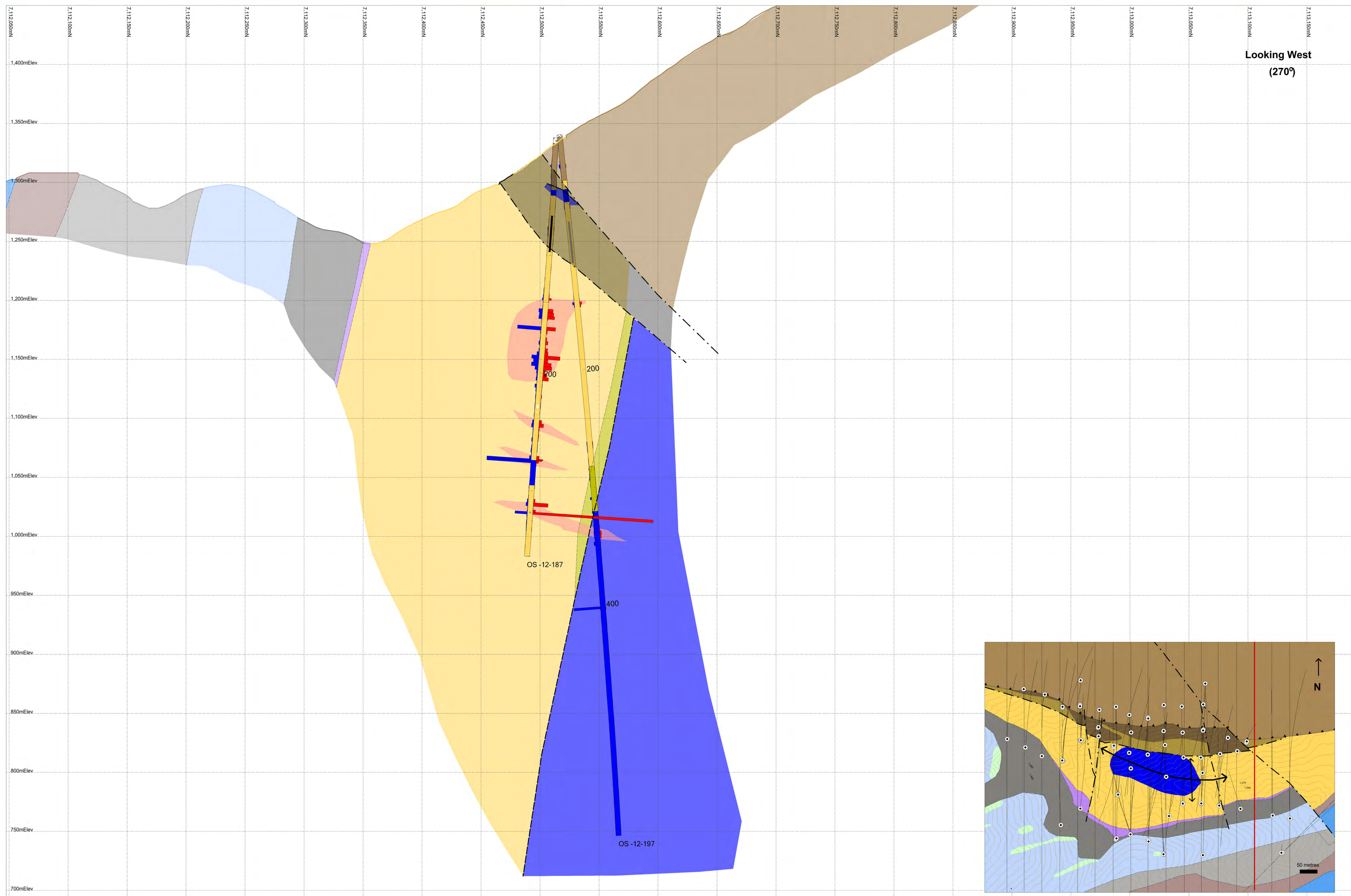
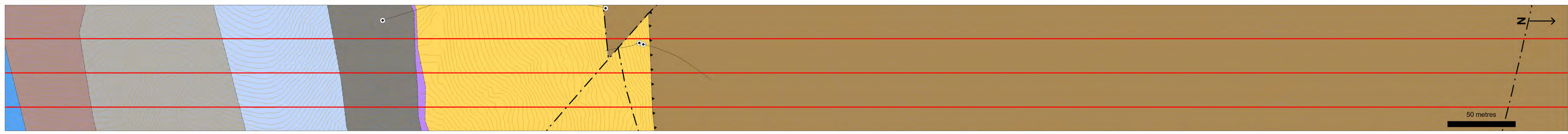
**ATAC RESOURCES LIMITED**

FIGURE 79  
Archer Cathro and Associates (1981) Ltd.  
**CONRAD SECTION C150E**  
Rackla Gold Project

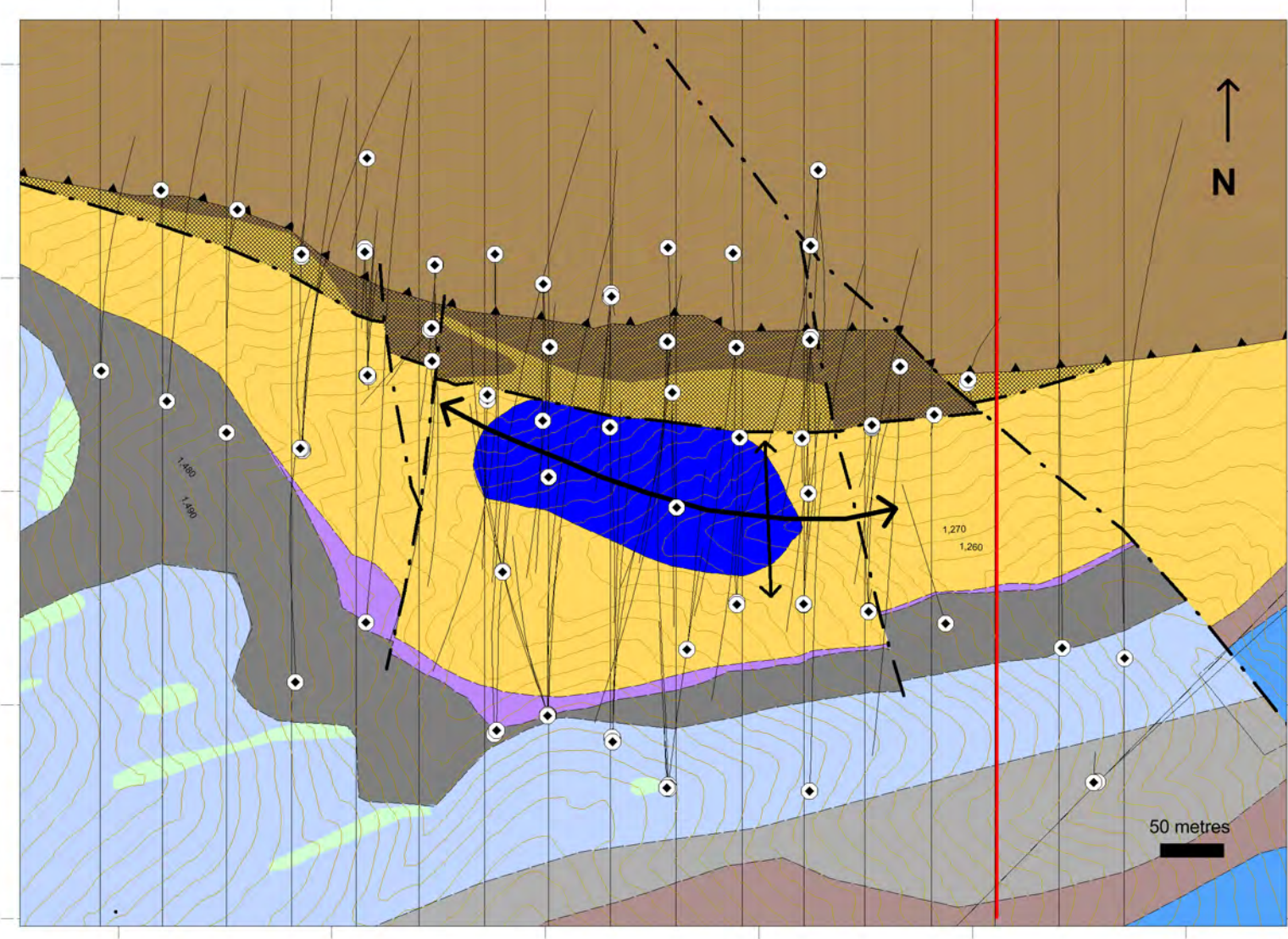
0m 20m 40m 60m 80m 100m  
UTM NAD 83 ZONE 8 Scale 1:1500

F\_79\_Conrad\_section\_C150E.wor APRIL 2013



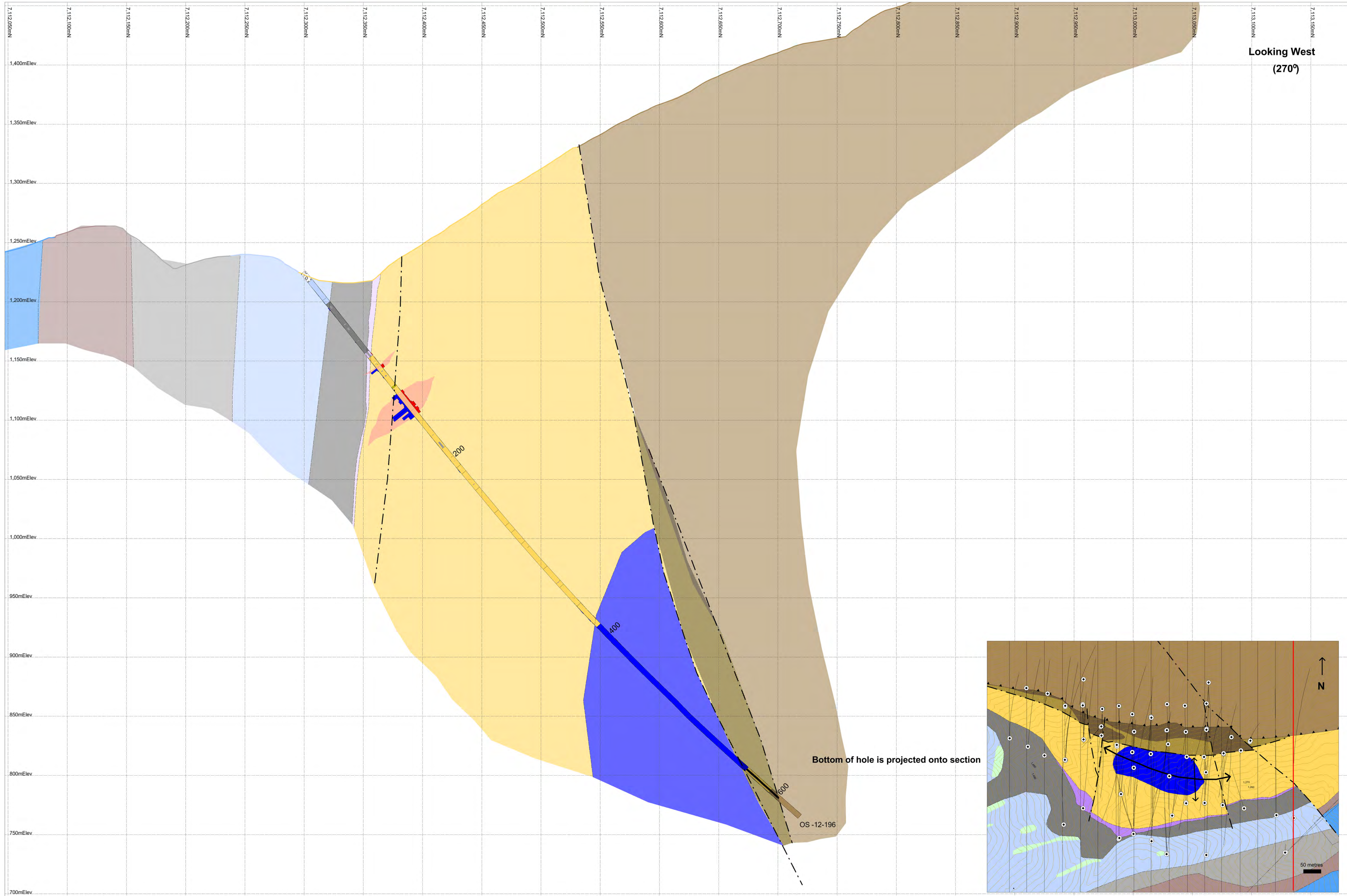
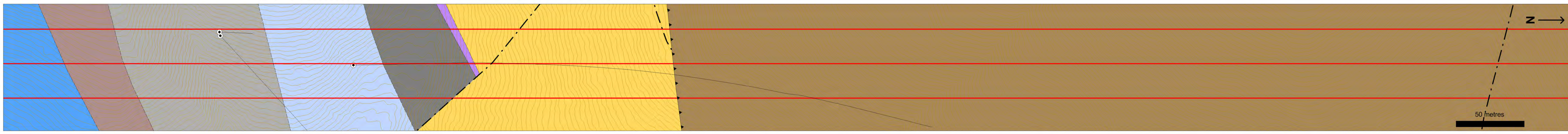


- LEGEND**
- Mafic to intermediate intrusion C-INT
  - Dolostone
  - Siltstone and shale O-SLT
  - Gritty, platy weathering limestone O-LST2
  - Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
  - Osiris Dolostone O-DST
  - Osiris silty limestone O-LST1
  - Maroon and green siltstone O-MST1
  - Grey Shale
  - Carbonate Debrites C-DMT
  - Calciclastic rocks C-LST2 Dark, crystalline limestone with carbonate debrites
  - Black shale, C-SHL
  - Conrad Dolostone C-DST
  - Conrad Siliciclastics C-SLC Pyritic siltstone, sandstone, poorly sorted pebble conglomerate
  - Conrad Limestone C-LST1
  - NONAD Mudstone with minor conglomerate and sandstone
  - Nadaleen fault zone
  - Gold 1mm = 1 ppm
  - Arsenic 1 mm = 2000 ppm Capped at 50,000
  - Gouge Zone
  - Shear/strain zone
  - Fault zone
  - Hole enters section
  - Hole exits section



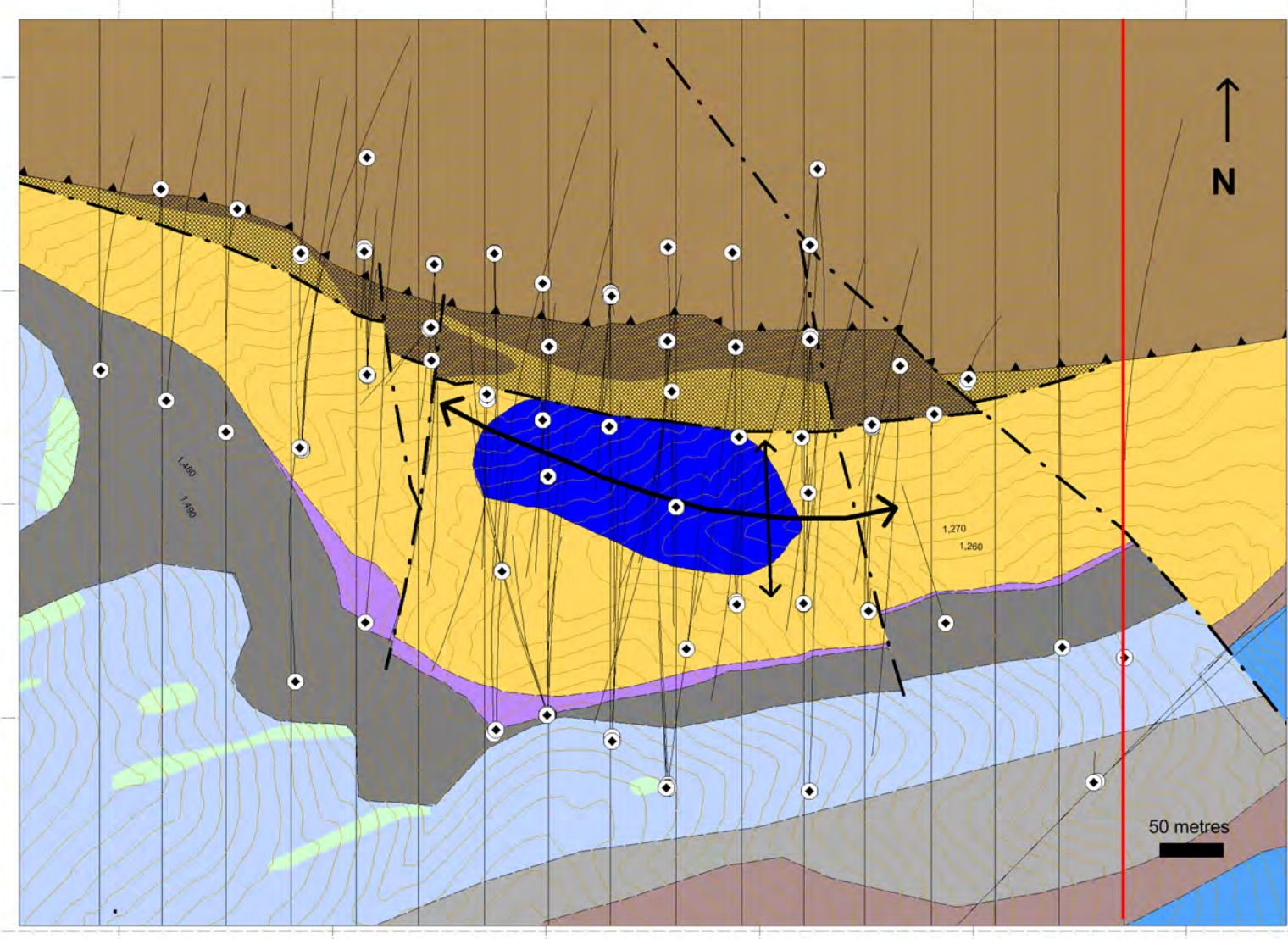
Section represents a 50 metre envelope centered along 630800 mE





**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Grilty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Oasris Dolostone O-DST
- Oasris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Carbonate Debrites C-DMT
- Calciclastic rocks C-LST2 Dark, crystalline limestone with carbonate debrites
- Black shale C-SHL
- Conrad Dolostone C-DST
- Conrad Siliciclastics C-SLC Pyritic siltstone, sandstone, poorly sorted pebble conglomerate
- Conrad Limestone C-LST1
- NONAD Mudstone with minor conglomerate and sandstone
- Nadaleen fault zone
- Gold 1mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50,000
- Gouge Zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section



Bottom of hole is projected onto section

OS-12-196

Section represents a 50 metre envelope centered along 630800 mE

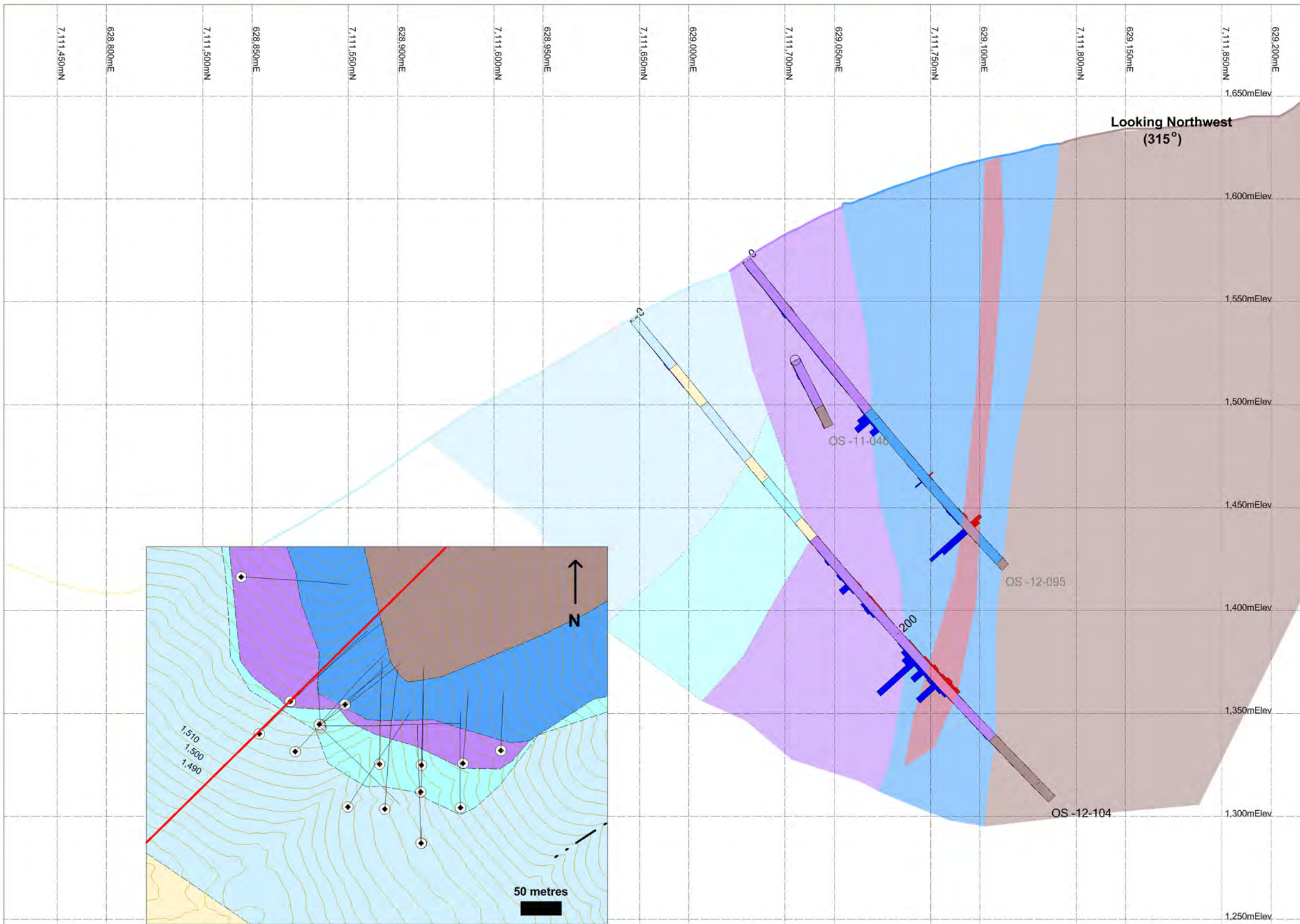
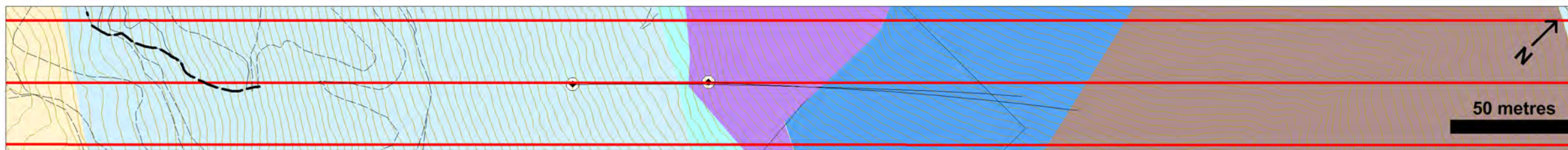
**ATAC RESOURCES LIMITED**

FIGURE 81  
Archer Cathro and Associates (1981) Ltd.  
**CONRAD SECTION C900E**  
Rackla Gold Project

0m 20m 40m 60m 80m 100m  
UTM NAD 83 ZONE 8 Scale 1:1500

F\_81\_Conrad\_section\_C900E.wor      APRIL 2013





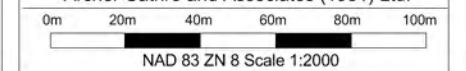
**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Osiris Dolostone O-DST
- Osiris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section

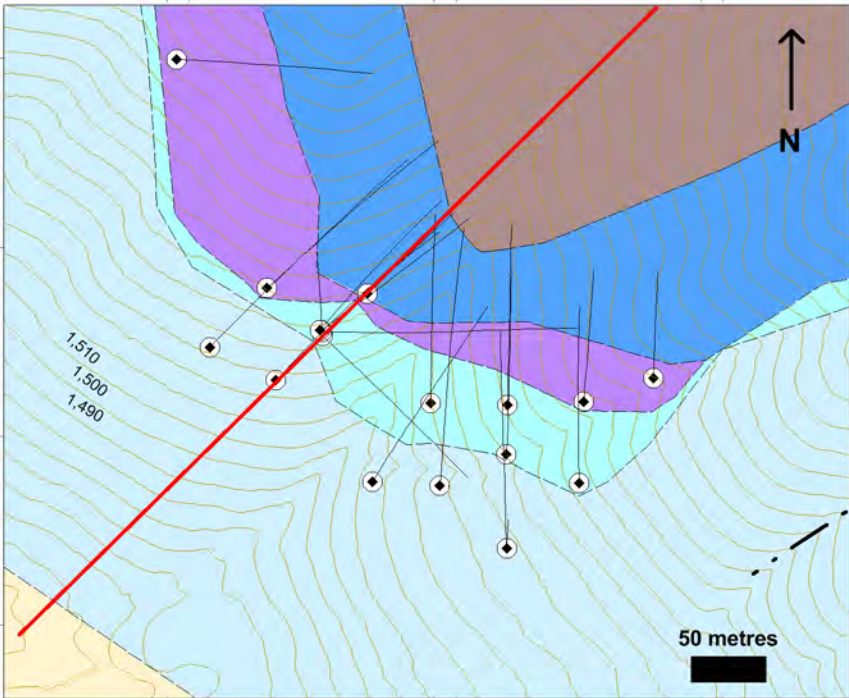
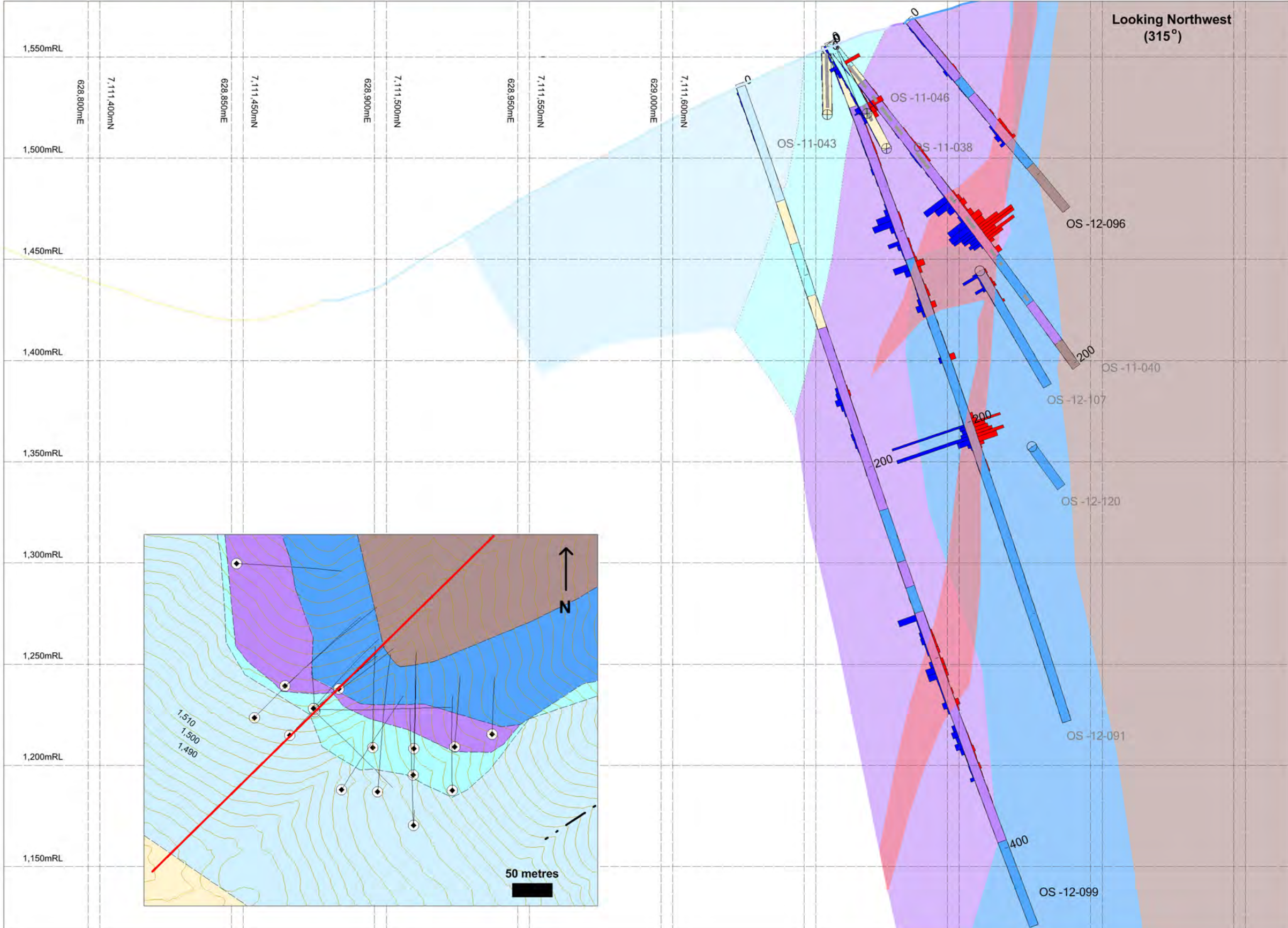
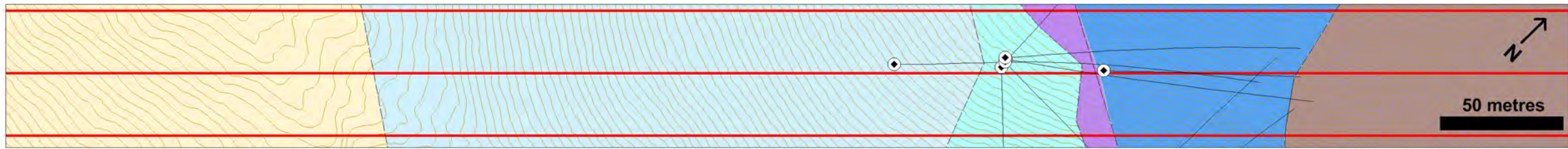
Section represents a 50 metre envelope

**ATAC RESOURCES LIMITED**

Figure 82  
 Rackla Gold Project  
**ISIS EAST SECTION 005aE**  
 Archer Cathro and Associates (1981) Ltd.







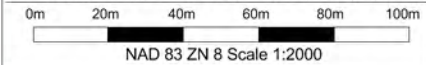
**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Osiris Dolostone O-DST
- Osiris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- + Hole exits section

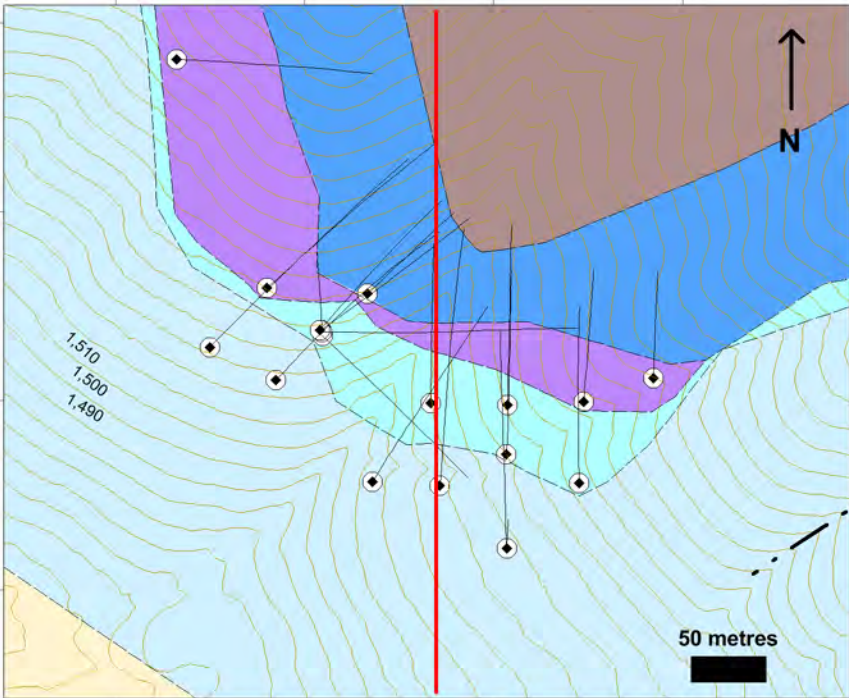
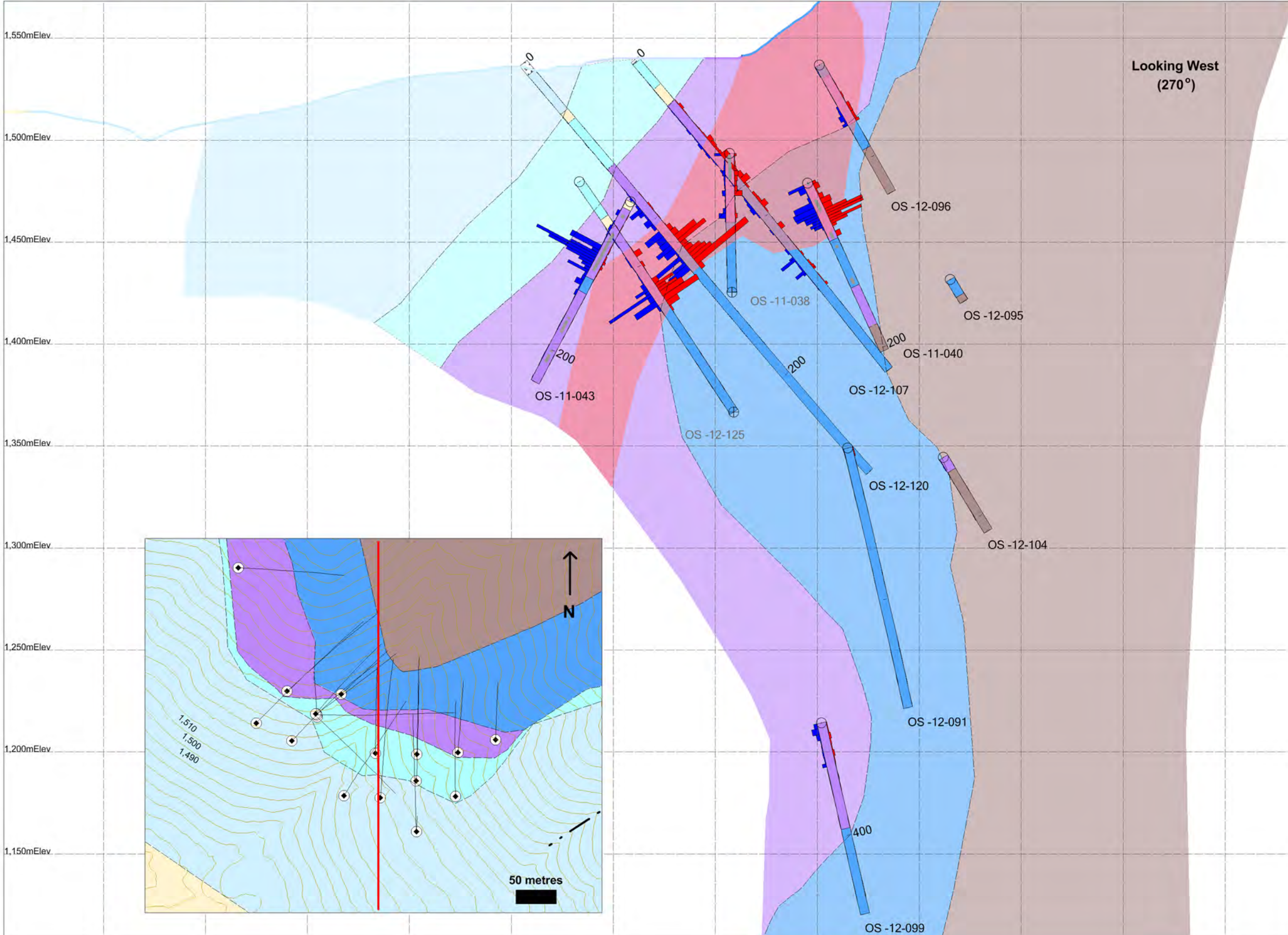
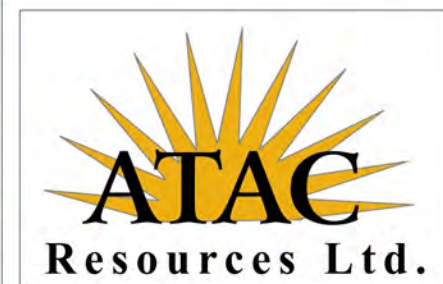
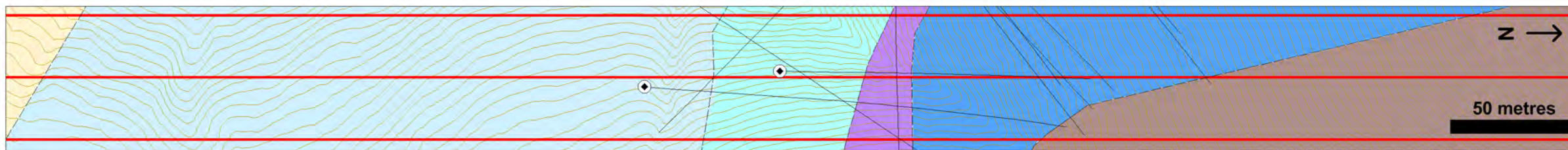
Section represents a 50 metre envelope

**ATAC RESOURCES LIMITED**

Figure 83  
 Rackla Gold Project  
**ISIS EAST SECTION 040aE**  
 Archer Cathro and Associates (1981) Ltd.







**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Osiris Dolostone O-DST
- Osiris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- + Hole exits section

Section represents a 50 metre envelope

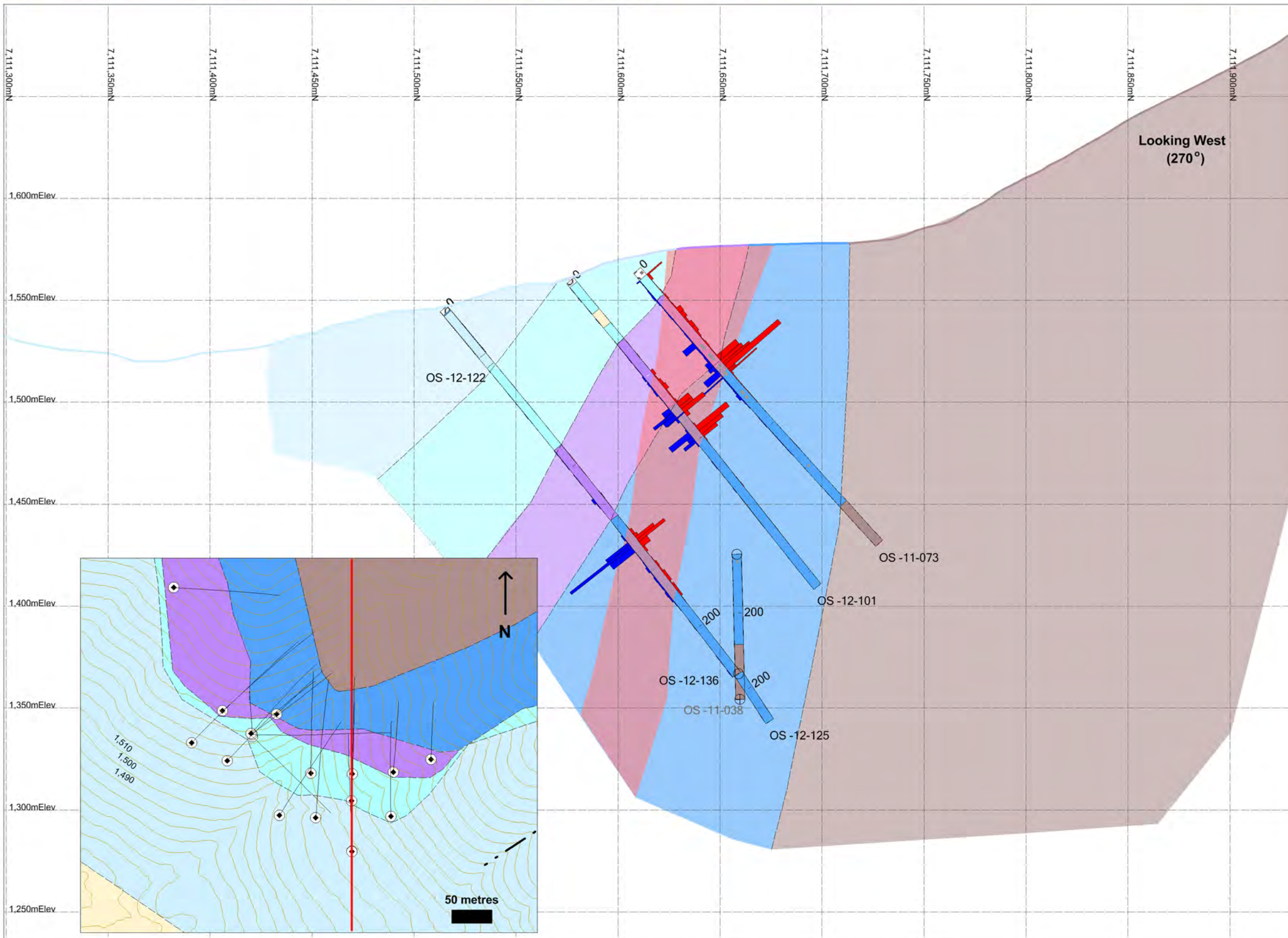
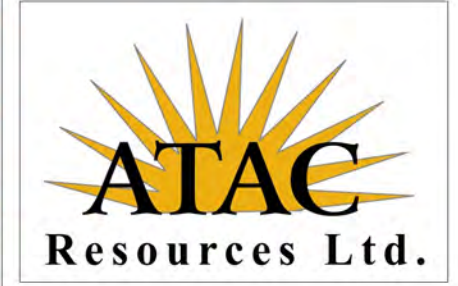
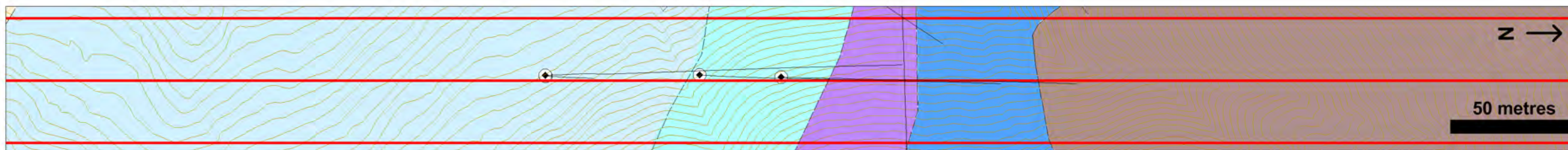
**ATAC RESOURCES LIMITED**

Figure 84  
Rackla Gold Project  
**ISIS EAST SECTION 130E**  
Archer Cathro and Associates (1981) Ltd.

0m 20m 40m 60m 80m 100m  
NAD 83 ZN 8 Scale 1:2000

F\_84\_Isis\_east\_section\_130E.wor | April 2013





**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Osiris Dolostone O-DST
- Osiris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- + Hole exits section

Section represents a 50 metre envelope

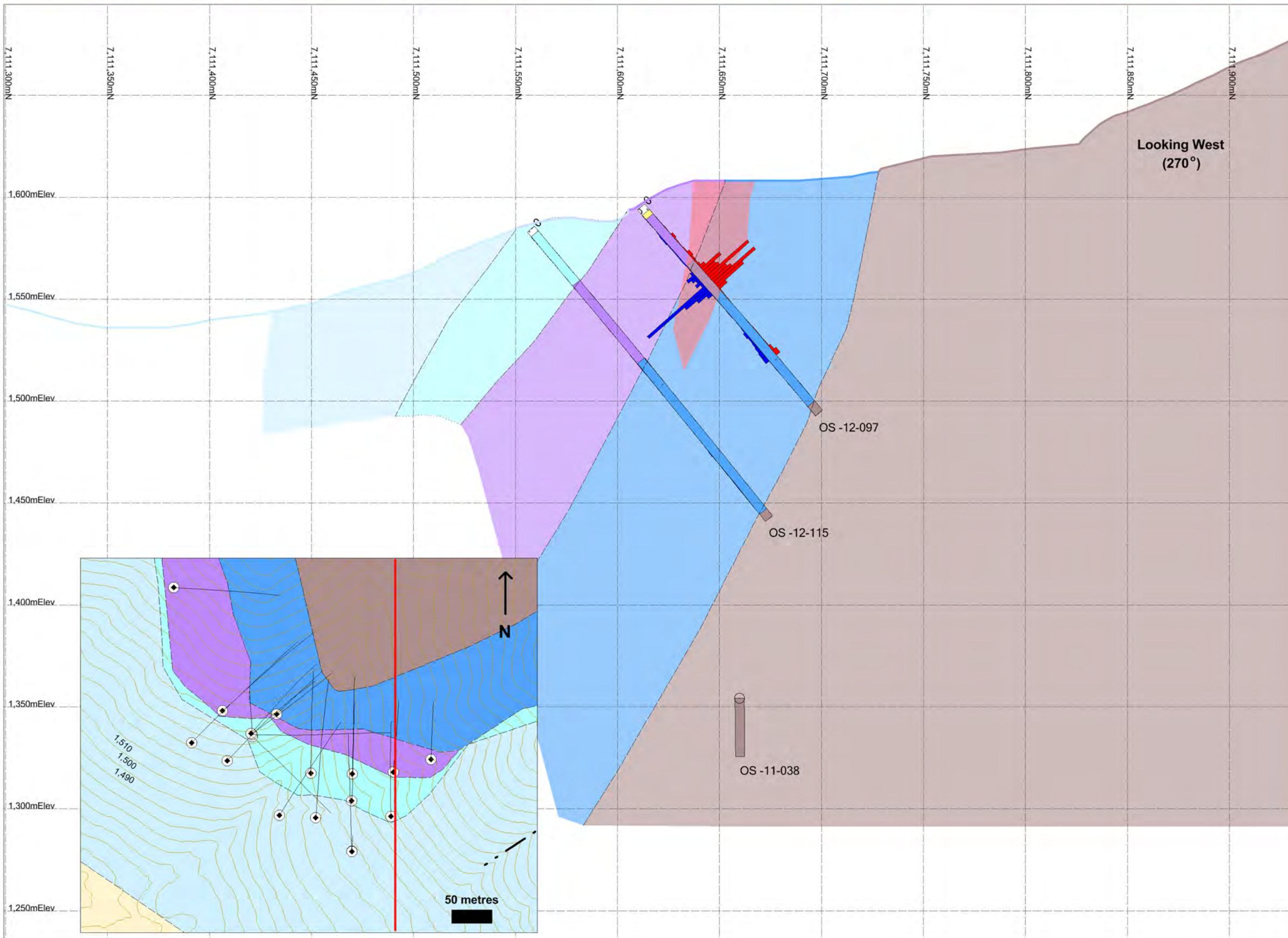
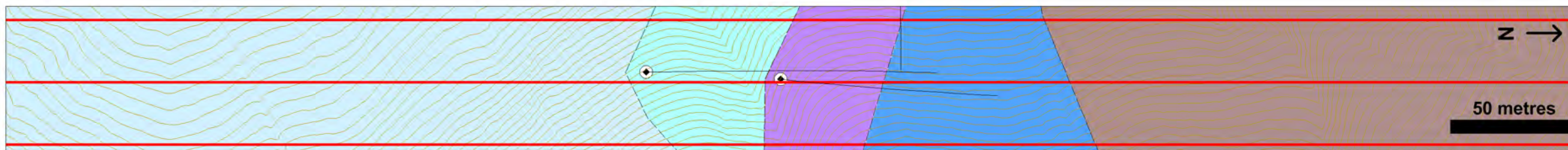
**ATAC RESOURCES LIMITED**

Figure 85  
Rackla Gold Project  
**ISIS EAST SECTION 180E**  
Archer Cathro and Associates (1981) Ltd.

0m 20m 40m 60m 80m 100m  
NAD 83 ZN 8 Scale 1:2000

F\_85\_Isis\_east\_section\_180E.wor | April 2013





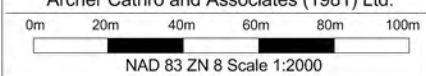
**LEGEND**

- Mafic to intermediate intrusion C-INT
- Dolostone
- Siltstone and shale O-SLT
- Gritty, platy weathering limestone O-LST2
- Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
- Osiris Dolostone O-DST
- Osiris silty limestone O-LST1
- Maroon and green siltstone O-MST1
- Grey Shale
- Gold 1 mm = 1 ppm
- Arsenic 1 mm = 2000 ppm Capped at 50000 ppm
- Gouge zone
- Shear/strain zone
- Fault zone
- Hole enters section
- Hole exits section

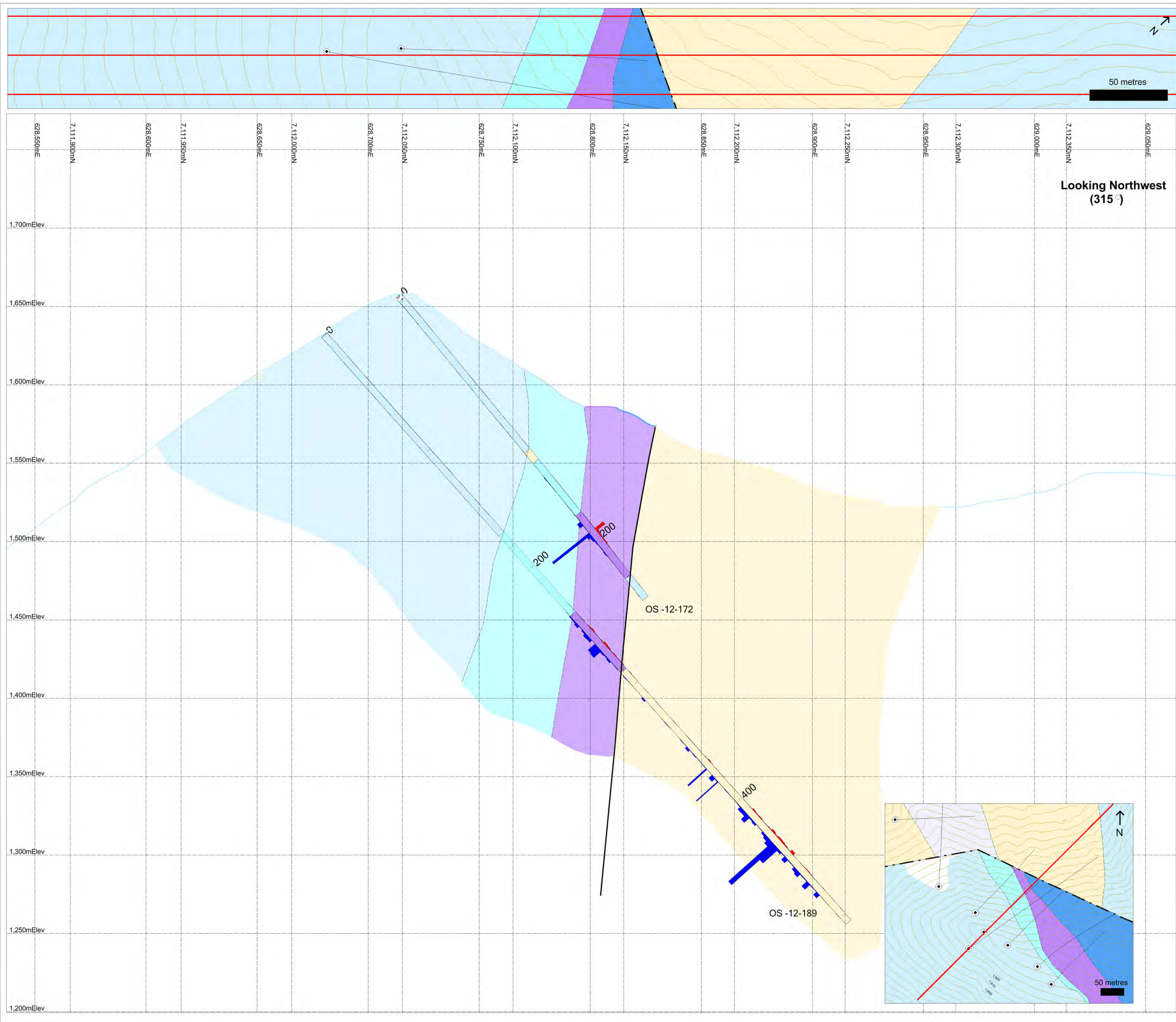
Section represents a 50 metre envelope

**ATAC RESOURCES LIMITED**

Figure 86  
Rackla Gold Project  
**ISIS EAST SECTION 230E**  
Archer Cathro and Associates (1981) Ltd.







- Legend**
- Mafic to intermediate intrusion C-INT
  - Dolostone
  - Siltstone and shale O-SLT
  - Gritty, platy weathering limestone O-LST2
  - Debrite O-DMT Unsorted polymict conglomerate with clasts to boulder size
  - Osiris Dolostone O-DST
  - Osiris silty limestone O-LST1
  - Maroon and green siltstone O-MST1
  - Grey Shale
  - Gold 1 mm = 1 ppm
  - Arsenic 1 mm = 2000 ppm Capped at 50000 p
  - Gouge zone
  - Shear/strain zone
  - Fault zone
  - Hole enters section
  - Hole exits section

Section represents a 50 metres envelope



**APPENDIX I**  
**STATEMENTS OF QUALIFICATIONS**



## **STATEMENT OF QUALIFICATIONS**

I, Julia Lane, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2008 with a B.Sc. in Earth and Ocean Science.
2. From 2006 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Ontario.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 157127).
4. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.



Julia Lane, B.Sc., GIT



## STATEMENT OF QUALIFICATIONS

I, Jordan McDivitt, geologist, with a business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2011 with a B.Sc. Honours in Earth and Environmental Science.
2. From 2010 to present, I have been actively engaged in mineral exploration in the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 159033).
4. I have personally participated in the field work reported herein and have interpreted data resulting from this work.



Jordan McDivitt, B.Sc., GIT



## STATEMENT OF QUALIFICATIONS

I, Richard Phillips, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2011\_ with a B.Sc. in Earth and Environmental Science.
2. From 2004\_\_ to present, I have been actively engaged in mineral exploration in Yukon Territory and British Columbia.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 172688).
4. I have personally participated in the fieldwork reported herein and have interpreted data resulting from this work.



Richard Phillips, B.Sc., GIT



## **STATEMENT OF QUALIFICATIONS**

I, Joan Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from Middlebury College, Vermont, USA in 1974 with a B.A. in Geology and Mathematics.
2. I graduated from the University of British Columbia in 1979 with a M.Sc. in Geology.
3. From 1977-1984, I was actively engaged in mineral exploration in Washington and Alaska, USA, Yukon Territory and British Columbia.
4. From 2011 to present, I have been actively engaged in mineral exploration in Yukon Territory.
5. I have personally participated in the fieldwork reported herein and have interpreted data resulting from this work.

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke extending to the right.

Joan Carne, B.A., M.Sc.



**APPENDIX II**  
**STATEMENT OF EXPENDITURES**



Statement of Expenditures  
Nadaleen Group A (606 Claims)  
February 1, 2013

Contract Diamond Drilling

Superior Diamond Drilling Inc.  
4 drill holes (OS-12-194, 195, 196 & 197)

\$359,542.18



Statement of Expenditures #1  
Nadaleen Group B  
EN 55-72, 115-132, 175-192, OS 1-14, 37-50, 79-92, 127-140,  
ST 55-66, 122-133, 154-253, 284-349, 366-431, Sten 1-12, 29-30, 39-58,  
T 3002-3003, 3050-3105 and 3114-3125 Mineral Claims  
February 5, 2013

Contract Diamond Drilling

Superior Diamond Drilling Inc.

\$393,958.77



Statement of Expenditures #2  
Nadaleen Group B  
AT 1-206 Mineral Claims  
February 5, 2013

Labour

R. Carne (geologist) Sept. 27 to Oct. 1 - 5 days @ \$1,160/day	\$ 6,496.00
J. Carne (geologist) Sept. 27 to Oct. 1 - 5 days @ \$782/day	4,379.20
J. Lane (geologist) Sept. 27 to Oct. 1 - 5 days @ \$765/day	4,284.00
I. Weatherston (field assistant) Sept. 27 to Oct. 4 - 8 days @ \$680/day	6,092.80
R. Philips (field assistant) Sept. 27 to Oct. 1 - 5 days @ \$612/day	3,427.20
I. Ames (field assistant) Sept. 27 to Oct. 1 - 5 days @ \$595/day	3,332.00
M. Warren (cook) Sept. 27 to Oct. 4 - 8 days @ \$595/day	5,331.20
E. Nelson (field assistant) Sept. 27 to Oct. 1 - 5 days @ \$552.50/day	3,094.00
T. Bruton (field assistant) Sept. 27 to Oct. 4 - 8 days @ \$442/day	3,960.32
M. Peterson (field assistant) Sept. 27 to Oct. 4 - 8 days @ \$442/day	3,960.32
J. Ritchie (field assistant) Sept. 27 to Oct. 1 - 5 days @ \$442/day	2,475.20
T. Hillier (field assistant) Sept. 27 to Oct. 1 - 5 days @ \$391/day	2,189.60
J. Howes (field assistant) Sept. 27 to Oct. 4 - 8 days @ \$374/day	3,351.04
J. Fraser (cook) Sept. 27 to Oct. 4 - 8 days @ \$680/day	6,092.80
K. Mathwig (cook) Sept. 27 to Oct. 1 - 5 days @ \$680/day	3,808.00
M. Warren (cook) Sept. 27 to Oct. 4 - 8 days @ \$595/day	<u>5,331.20</u>
	62,273.68

Expenses (including management fee)

Field room and board – 201 mandays @ \$180/manday	43,763.33
Horizon Helicopter – 5.1 hours Bell 206B @ \$1025 + Fuel	33,118.47
Fireweed Helicopters	<u>32,897.34</u>
	109,779.14

Total	<u>\$172,052.82</u>
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Statement of Expenditures  
Nadaleen Group C  
EN 1-54, 73-114, 133-174, IS 1-28,  
OS 641-676, 749-770, 841-846, 913-1076, ST 25-54, 92-121, 254-283, 350-365,  
Sten 13-20, 59-89, 91, 93, 95, 97, 99, 101, 105-126,  
T 772-785, 810-823, 848-861, 890-903, 2972-3001, 3004, 3006, 3008-3049 Mineral Claims  
February 6, 2013

Expenses (including management)

Superior Diamond Drilling Inc.	\$ 42,989.42
15317 Yukon Inc.	40,824.00
Transterritorial Inc.	51,269.50
Bob's Contracting	69,174.00
Atlin Small Engine	41,917.38
Black Sheep Aviation & Cattle Company	20,539.58
Nomad Air	54,509.08
North 60 Petro Ltd.	<u>17,170.77</u>
Total	<u>\$338,393.73</u>



Statement of Expenditures  
BT 1-192, EX 1-18 and WH 1-61 Mineral Claims  
February 6, 2013

Labour from December 2012 to January 2013

J. Carne (geologist) 38 1/2 days @ \$782/day	\$ 33,719.84
J. Lane (geologist) 34 days @ \$765/day	29,131.20
R. Phillips (geologist) 39 1/2 days @ \$612/day	27,074.88
I. Ames (geologist) 39 days @ \$595/day	25,989.60
J. McDivitt (geologist) 39 days @ \$595/day	<u>25,989.60</u>
 Total	 <u>\$141,905.12</u>

Pro rate for claims recorded on December 5, 2012

BT 1-192 (Nadaleen Group E)	\$100,537.95
EX 1-18 (Nadaleen Group C)	\$9,425.43
WH 1-61 (Nadaleen Group D)	\$31,941.74



Statement of Expenditures

Nadaleen Group D

Dale 1-12, ST 1-24, 87-91, 432-517,

Sten 90, 92, 94, 96, 98, 100, 102-104, 127-142,

T 748-771, 786-809, 824-847, 862-889, 904-1071, 2296, 2298, 2342-2348, 2388-2397,

2428-2437, 2468-2477, 2508-2517, 2548-2557, 2588-2597, 2628-2637, 2668-2677,

2708-2717, 2748-2757, 2772, 2774, 2776, 2778, 2780, 2782, 2784, 2786, 2788-2807,

2815-2850, 2859-2894, 2903-2938, 2950-2971, 3005 & 3007 Mineral Claims

February 6, 2013

Expenses (including management)

Superior Diamond Drilling Inc.	\$265,314.26
ALS Chemex	66,462.68
Transterritorial Inc. (Mapping)	<u>11,431.40</u>
Total	<u>\$343,208.34</u>



Statement of Expenditures  
BT 1-192, EX 1-18 and WH 1-61 Mineral Claims  
February 6, 2013

Labour from December 2012 to January 2013

J. Carne (geologist) 38 1/2 days @ \$782/day	\$ 33,719.84
J. Lane (geologist) 34 days @ \$765/day	29,131.20
R. Phillips (geologist) 39 1/2 days @ \$612/day	27,074.88
I. Ames (geologist) 39 days @ \$595/day	25,989.60
J. McDivitt (geologist) 39 days @ \$595/day	<u>25,989.60</u>
 Total	 <u>\$141,905.12</u>

Pro rate for claims recorded on December 5, 2012

BT 1-192 (Nadaleen Group E)	\$100,537.95
EX 1-18 (Nadaleen Group C)	\$9,425.43
WH 1-61 (Nadaleen Group D)	\$31,941.74



Statement of Expenditures

Nadaleen Group E

Jam 1-32, T 2158, 2160, 2162, 2164, 2166, 2168, 2170, 2172, 2174, 2176, 2178, 2180, 2182, 2184, 2186, 2188, 2190, 2192, 2194, 2196, 2198, 2200, 2202, 2204-2295, 2297, 2299-2341, 2349-2387, 2398-2427, 2438-2467, 2478-2507, 2518-2547, 2558-2570, 2571-2587, 2598-2627, 2638-2667, 2678-2707, 2718-2747, 2758-2771, 2773, 2775, 2777, 2779, 2781, 2783, 2785, 2787, 2808-2814, 2851-2858, 2895-2902, 2939-2949 & 3132-3133 Mineral Claims

February 6, 2013

Expenses (including management fee)

Superior Diamond Drilling Inc.	\$114,619.20
15317 Yukon Inc.	210,541.27
Fireweed Helicopters	<u>22,275.16</u>
Total	<u>\$347,435.63</u>



Statement of Expenditures  
BT 1-192, EX 1-18 and WH 1-61 Mineral Claims  
February 6, 2013

Labour from December 2012 to January 2013

J. Carne (geologist) 38 1/2 days @ \$782/day	\$ 33,719.84
J. Lane (geologist) 34 days @ \$765/day	29,131.20
R. Phillips (geologist) 39 1/2 days @ \$612/day	27,074.88
I. Ames (geologist) 39 days @ \$595/day	25,989.60
J. McDivitt (geologist) 39 days @ \$595/day	<u>25,989.60</u>
Total	<u>\$141,905.12</u>

Pro rate for claims recorded on December 5, 2012

BT 1-192 (Nadaleen Group E)	\$100,537.95
EX 1-18 (Nadaleen Group C)	\$9,425.43
WH 1-61 (Nadaleen Group D)	\$31,941.74



Statement of Expenditures

Nadaleen Group F

T 1522-2157, 2159, 2161, 2163, 2165, 2167, 2169, 2171, 2173, 2175, 2177, 2179, 2181, 2183,  
2185, 2187, 2189, 2191, 2193, 2195, 2197, 2199, 2201, 2203,

Smac 1, 2 & 3 Mineral Claims

February 27, 2013

Labour

J. McDivitt (geologist) June to July 2012 – 3 days @ \$595.00/day	\$ 1,999.20
R. Nelson (field assistant) June to July 2012 – 8 days @ \$552.50/day	4,950.40
N. Joyce (field assistant) June to July 2012 – 6 days @ \$493/day	3,312.96
T. Tamburri (field assistant) June to July 2012 – 6 days @ \$459/day	3,084.48
C. Smith (field assistant) June to July 2012 – 8 days @ \$408/day	3,655.68
C. Campbell (field assistant) June to July 2012 – 1 day @ \$357/day	399.84
S. Dueck (field assistant) June to July 2012 – 1 day @ \$357/day	399.84
R. Friesen (field assistant) June to July 2012 – 9 days @ \$357/day	3,598.56
E. Hunter-Perkins (field assistant) June to July 2012 – 7 days @ \$357/day	2,798.88
L. Vinnedge (field assistant) June to July 2012 – 1 day @ \$357/day	399.84
J. Ashwell (field assistant) June to July 2012 – 7 days @ \$340/day	<u>2,665.60</u>
	27,265.28

Expenses (including management fee)

Field room and board – 15 mandays @ \$185/manday	3,356.64
59 mandays @ \$260/manday	18,555.26
Black Sheep Aviation & Cattle Company	5,167.17
Fireweed Helicopters – L4	2,249.86
520N	30,950.82
ALS Chemex	<u>46,523.83</u>
	106,803.58
Total	<u>\$134,068.86</u>



Statement of Expenditures  
Nadaleen Group G  
T 477-508, 521-747, 1072-1521, 3126-3131 Mineral Claims  
February 27, 2013

Labour

R. Nelson (field assistant) June 2012 – 3 days @ \$552.50/day	\$ 1,856.40
N. Joyce (field assistant) June 2012 – 3 days @ \$493/day	1,656.48
T. Tamburri (field assistant) June 2012 – 3 days @ \$459/day	1,542.24
C. Smith (field assistant) June 2012 – 3 days @ \$408/day	1,370.88
R. Friesen (field assistant) June 2012 – 3 days @ \$357/day	1,199.52
E. Hunter-Perkins (field assistant) June 2012 – 4 days @ \$357/day	1,599.36
J. Ashwell (field assistant) June 2012 – 4 days @ \$340/day	1,523.20
J. Mariacher (office support) 3 hours @ \$95/hour	<u>319.20</u>
	11,067.28

Expenses (including management fee)

Field room and board – 23 mandays @ \$260/manday	7,233.41
Fireweed Helicopters – 11.4 hours 520N @ \$1050/hour plus fuel	14,478.91
ALS Chemex	27,468.71
Venessa Bennett	<u>11,793.60</u>
	60,974.63

Total \$72,041.91



Statement of Expenditures  
Nadaleen Group H  
T 1-202, 215-236, 247-270, 272, 274, 293-322, 339-374, 376, 378,  
385-426, 431-472, 474, 509-520 & RR 1-222 Mineral Claims  
February 27, 2013

Labour

J. Lane (administrative support) 2012 – 2 days @ \$765/day	\$ 1,713.60
J. McDivitt (geologist) June 2012 – 1 day @ \$595/day	666.40
R. Nelson (field assistant) June 2012 – 2 days @ \$552.50/day	1,237.60
N. Joyce (field assistant) June 2012 – 1 day @ \$493/day	552.16
T. Tamburri (field assistant) June 2012 – 1 day @ \$459/day	514.08
R. Friesen (field assistant) June 2012 – 1 day @ \$357/day	399.84
E. Hunter-Perkins (field assistant) June 2012 – 1 day @ \$357/day	399.84
J. Ashwell (field assistant) June 2012 – 1 day @ \$340/day	<u>380.80</u>
	5,864.32

Expenses (including management fee)

Field room and board – 8 mandays @ \$260/manday	2,515.97
Fireweed Helicopter – 5 hrs 520N @ \$1050/hr	6,350.40
ALS Chemex	3,026.04
Venessa Bennett	28,944.00
Hardrock Mineral Exploration Inc.	<u>17,805.38</u>
	58,641.79

Total \$64,506.11



Statement of Expenditures  
 Nadaleen Group I, J, K and L  
 (see attached for list of mineral claims)  
 February 26, 2013

Labour for May, June and July 2012

I. Ames (geologist) – 6 days @ \$595/day	\$ 3,998.40
J. McDivitt (geologist) – 15 days @ \$595/day	9,996.00
B. Hunt (cook) – 35 days @ \$560/day	21,952.00
I. Weatherston (camp manager) – 11 days @ \$560/day	6,899.20
R. Nelson (field assistant) – 3 days @ \$552.50/day	1,856.40
M. Dean (field assistant) – 5 days @ \$510/day	2,856.00
M. Lampron (field assistant) – 13 days @ \$510/day	7,425.60
N. Joyce (field assistant) – 13 days @ \$493/day	7,178.08
T. Tamburri (field assistant) – 14 days @ \$459/day	7,197.12
C. Candlish-Rutherford (field assistant) – 6 days @ \$425/day	2,856.00
S. Gibson (field assistant) – 39 days @ \$425/day	18,564.00
C. Sarzynick (field assistant) – 15 days @ \$408/day	6,854.40
J. Howes (field assistant) – 6 days @ \$374/day	2,513.28
R. Friesen (field assistant) – 13 days @ \$357/day	5,197.92
E. Hunter-Perkins (field assistant) – 13 days @ \$357/day	5,197.92
J. Ashwell (field assistant) – 12 days @ \$340/day	4,569.60

Office work, support and expediting from January to September 2012

A. Carne – 115 hour @ \$68/hour	8,758.40
R. Carne – 2 days @ \$1160/day	2,598.40
M. Dumala – 8 5/8 days @ \$765/day	7,389.90
W. Schneider – 18 1/8 days @ \$740/day	15,022.00
D. Arnold-Wallinger – 9 days @ \$595/day	5,997.60
J. Mariacher – 3 3/8 days @ \$782/day	2,955.96
L. Corbett – 14 3/4 days @ \$648/day	10,704.96
Office support – Vancouver office	16,561.72
Expediting – Yukon	<u>8,948.80</u>
	194,049.66

Expenses (including management fee)

Field room and board – 340 mandays @ \$185/manday	76,083.84
SRK Consulting Inc. – pro rated	261,881.05
SGS Canada Inc. – metallurgical testing	21,016.80
Laberge Environmental Services – pro rated	8,978.91
J. Gibson Environmental Consulting – pro rated	31,543.79
Aurora Geosciences Ltd.	87,289.60
Nomad Air	46,574.92



Expenses (including management fee) continued

15317 Yukon Inc.	35,320.32
ALS Chemex	64,586.59
Alkan Air	29,300.14
Black Sheep Aviation & Cattle Company	4,603.01
Fireweed Helicopters	171,699.76
Environmental Refueling Systems Inc.	8,157.61
University of Alberta	15,413.16
Gemcom Software International Inc.	5,665.26
Great River Aviation Ltd.	3,887.78
North 60 Petro Ltd.	10,725.92
Trans North Helicopters – pro rated	8,869.51
Corebox Online Services Inc.	<u>2,903.04</u>
	894,501.01
Total	<u>\$1,088,550.67</u>

Note: These costs are for the Tiger Deposit which covers all four groupings.

Total claims for Group I, J, K and L = 2,701 claims

Cost per claim =  $\$1,088,550.67 / 2,701 = \$403.02$

Cost pro rated for:

Group I (451 claims) – \$181,760.95

Group J (750 claims) – \$302,263.24

Group K (750 claims) – \$302,263.24

Group L (750 claims) – \$302,263.24



Statement of Expenditures  
Nadaleen Group M  
ACX 1-310 Mineral Claims  
February 26, 2013

Expenses

SRK Consulting Inc.- pro rated	\$ 29,097.89
Laberge Environmental Services - pro rated	8,978.91
J. Gibson Environmental Consulting - pro rated	31,543.79
Fireweed Helicopters - pro rated	34,693.38
Trans North Helicopters - pro rated	4,191.26
Matrix Research Ltd.	<u>16,934.40</u>
Total	<u>\$125,439.63</u>



Statement of Expenditures  
Nadaleen Group N  
S 1155-1250 Mineral Claims  
February 26, 2013

Labour

J. McDivitt (geologist) Aug. 2012 – 2 days @ \$595/day	\$ 1,332.80
N. Joyce (field assistant) Aug. 2012 – 2 days @ \$493/day	1,104.32
T. Tamburri (field assistant) Aug. 2012 – 2 days @ \$459/day	1,028.16
C. Sarzynick (field assistant) Aug. 2012 – 2 days @ \$408/day	913.92
R. Friesen (field assistant) Aug. 2012 – 2 days @ \$357/day	799.68
E. Hunter-Perkins (field assistant) Aug. 2012 – 2 days @ \$357/day	799.68
J. Ashwell (field assistant) Aug. 2012 – 2 days @ \$340/day	<u>761.60</u>
	6,740.16

Expenses (including management fee)

Field room and board – 14 mandays @ \$185/manday	3,132.86
Fireweed Helicopters – 5.3 hours @ \$1050/hour	9,525.60
ALS Chemex	<u>270.11</u>
	12,928.57

Total	<u>\$19,668.73</u>
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## **APPENDIX III**

### **SAMPLING AND ANALYTICAL PROCEDURES – ROCK, SOIL, SILT**



## 2012 Rock and Auger Geochemical Samples

Rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample descriptions are presented in Appendix III.

Auger samples were collected in 2.5 foot intervals and placed into cloth sample bags to dry. When the samples were dry they were packaged up and sent for analysis. Auger sample sites were marked with a lath with a metal tag identifying the hole. The location of each hole was determined using a handheld GPS unit.

Rock and auger samples were submitted to ALS in Whitehorse, Yukon where they were dried and fine crushed to 70% passing 2 mm. A 250 g split of the crushed material was then pulverized to better than 85% passing 75 microns. Separate splits of the pulverized fraction were analyzed for gold by fire assay and atomic absorption spectroscopy (Au-AA26) and for 49 other elements using a four acid near total digestion technique (ME-MS61m) at ALS in North Vancouver, British Columbia. Mercury was analyzed for using HG-CV41 methods by aqua regia digestion and atomic adsorption spectroscopy.

Samples containing visible gold and samples suspected of containing coarse gold were assayed by ALS method Au-SCR21 in which 1 kg of sample pulp is passed through a 100 micron screen and all of the coarse material on the screen is assayed by Au fire assay. Two samples of homogenized pulp that passed through the screen are assayed by Au-AA25 and Au-AA25D which is fire assay with AAS finish on a 30 gram sample charge. The weighted average of coarse and fine fraction assays are calculated by the laboratory and reported as the total gold concentration of the rock sample.

## 2012 Soil Geochemical Samples

Soil sample types ranged from grid samples taken at lines along a constant bearing, to contour and ridge and spur samples targeting constant elevations and high elevations respectively. Soil samples were taken using an auger, targeting `C` horizon soils below organic cover; sample depths ranging from 10-90 cm dependent on local soil development, vegetation and frozen ground conditions. Samples were placed in kraft soil sample bags, and sample sites were flagged and marked with stakes etched with assay tag number, line or point number and grid name. The soil samples were sent to ALS where they were dried and screened to 180 microns. Soils samples were sent for 51 element, aqua regia digestion using ICP-MS and ICP-AES assay analysis (ME-MS41). Gold values in soil samples were determined using a 30 gram nominal sample weight. The analytical process for quantitative determination of gold values was a fire assay fusion with an ICP-AES finish (Au-ICP21).

## 2012 Silt Geochemical Samples

Silt samples were taken from in-stream silt-rich sediment or from silty accumulation within the roots of overhanging moss at the creek edge where stream conditions did not allow for sufficient



silt build-up. Flagging marked with the assay sample number was used to mark silt sample locations. The stream sediment samples were sent to ALS, where they were dried, screened to 180 microns, dissolved in aqua regia solution and then analyzed for 51 elements using an aqua regia digestion and a combination of ICP-MS and ICP-AES for analysis (ME-MS41). Gold values in silt samples were determined using a 30 gram nominal sample weight. The analytical process for quantitative determination of gold values was a fire assay fusion with an ICP-AES finish (Au-ICP21).



**APPENDIX IV**  
**ROCK SAMPLE DESCRIPTIONS**



SAMPLE	Easting	Northing	Target	Comments
L842618	613453	7114016	Halfway	Styloitic Carbonate.
L842617	613864	7114039	Halfway	Crystalline carbonate. Stench of sulphide upon breaking open.
L842594	614823	7114217	Halfway	in-situe calcareous, vesicular precipitate.
L842596	614984	7114239	Halfway	gossan pit sample. Red ferrogenous, calcareous precipitate. Granular accretions.
K242235	614984	7114241	Halfway	beige calcarious sandy material, from gossen
L842616	615001	7114054	Halfway	Vuggy, limonitic, goethitic calcite precipitate.
K242233	615057	7114260	Halfway	grey fine grained limestone with calcite viens and rusty pyrite, fracturec
K242236	615075	7113974	Halfway	fractured grey limestone with calcite viens, and black vienlets
L842597	615093	7113972	Halfway	red, oxidized, accreted calcareous precipitate from mouth of spring at head of gossan creek. In situe.
L842595	615095	7114237	Halfway	pit sample, 0.3m depth. Highly fractured limestone and brown-grey soil. In gully up from gossan.
L842714	615098	7114244	Halfway	grey limestone fault breccia. Cryptic flecks of realgar, trace peachy clay specks, cryptic sphalerite and trace scorodite dusting on fracture surfaces. Subcrop.
K242244	615101	7113828	Halfway	grey crystalline limestone, calcite blebs, locally clay alteration, vessicular zones, black viens brecciated clay
K242234	615101	7114241	Halfway	brecciated fine grained limestone, calcite viens, dark grey samdy material
L842702	615146	7113909	Halfway	grey limestone fault breccia with cryptic realgar-bearing 0.3cm calcite veins. Subcrop.
L842614	615154	7114498	Halfway	Partially dolomitized, pale grey micrite. Small amount of realgar on fracture face.
L842703	615165	7113894	Halfway	grey-tan limestone crackle breccia with calcite veins, peachy clay specks, minor galena and red-brown sphalerite. Subcrop.
K242243	615173	7113777	Halfway	grey fractured limestone with calcite blebs and rusty pyrite
L842599	615188	7113885	Halfway	tan weathering, clay altered limestone fault breccia with 5% galena infilling spaces. Subcrop
L842600	615188	7113885	Halfway	Tan coloured, clay altered limestone fault breccia. Trace galena and realgar in calcite veinlets. Subcrop.
L842598	615188	7113885	Halfway	tan weathering, grey limestone fault breccia with realgar-bearing calcite veins. Subcrop.
K242239	615190	7113888	Halfway	fractured dark grey limestone, with sphalerite and galena in calcite viens, blue grey weathering
K242242	615190	7113888	Halfway	fractured, light grey, limestone, light pink clay alteration, blue grey stain in spots, green hue in spots, some flakes of realgar
K242237	615190	7113888	Halfway	fractured grey limestone, minor clay alteration, realgar in calcite viens
K242238	615190	7113888	Halfway	brecciated dark grey limestone, minor clay alteration, calcite viens, blue-grey weathering on one surface
L842615	615192	7113897	Halfway	Dolomitized limestone with calcite veining, sphalerite, arsenic oxide and an unidentified, earthy, soft, orange, creamy mineral.
L842701	615194	7113885	Halfway	Tan coloured, limestone fault breccia. Trace realgar in calcite veinlets proximal to carbonatious fractures.
K242250	615197	7113897	Halfway	Subcrop.
K242241	615199	7113912	Halfway	beige-light grey limestone, brecciated, light pink, clay alteration, calcite vien:
K242240	615199	7113912	Halfway	grey limestone with calcite viens which have a few flakes of realgar and sphalerite
K242249	615200	7113888	Halfway	dark grey brecciated limestone with fine grained grey matrix, calcite viens, moderatly porous:
L842704	615206	7113898	Halfway	grey fractured limestone with sphalerite and realgar in calcite viens
K242246	615210	7113904	Halfway	open folded calcite veins with slickensides and minor realgar. In situe. Fault plane 060/35 SE, fold axis 27- >168.
K242245	615210	7113904	Halfway	light grey-beige limestone with realgar in calcite fractures, and slick en slides.
L842705	615216	7113899	Halfway	dark grey brecciated limestone with fine grained light grey matrix
L843667	615226	7114240	Halfway	moderately silicified limestone fault breccia with minor specs of peachy clay and trace realgar along fractures. Trace black carbonaceous patches and minor sphalerite. In situe.
L843786	615233	7114231	Halfway	grey limestone bearing rusty pyrite crystals(squares), and band of slick n slides
L842706	615234	7113894	Halfway	brecciated grey micritic limestone wth a calcite matrix. Minor peachy clay along fractures. Float.
L842721	615242	7114133	Halfway	moderately silicified grey micritic limestone fault breccia. No visible sulphides.
L842720	615242	7114133	Halfway	bulk pit sample of red kill zone soil.
K242247	615242	7113900	Halfway	light grey limestone breccia with calcite matrix. Cryptic realgar. From red soil kill zone float.
L842707	615249	7113895	Halfway	grey limestone with very small flake of realgar in calcite vien
L842725	615280	7114125	Halfway	blue-grey limestone with cryptic purple fluorite?-bearing calcite veinlets. Subcrop.
L843668	615291	7114324	Halfway	black carbonaceous-speckled, moderately porous fine grained calcite sandstone. From red soil kill zone.
L843787	615292	7114325	Halfway	Float.
L843669	615309	7114418	Halfway	brecciated grey limestone with black blebs and vienlets, pink clay patches, calcite viens and vugs in caltie bearing realgar
L842723	615312	7114132	Halfway	grey micritic limestone breccia with trace scorodite and peachy clay along fractures. Float.
L842722	615312	7114132	Halfway	grey brecciated limestone with calcite matrix and pink clay spots
L842724	615312	7114132	Halfway	grey micritic limestone with minor peachy clay and granular realgar in fractures. Float.
K242248	615313	7113824	Halfway	grey, locally carbonaceous limestone fault breccia with cryptic realgar. Kill zone float.
L842719	615320	7114145	Halfway	moderately porous, salt and pepper limestone breccia. Float.
L842708	615321	7113895	Halfway	grey fractured limestone, with black shiny material, carbonaceous.
L842718	615331	7114131	Halfway	light grey limestone breccia with calcite matrix. Minor sphalerite and galena. Float.
L842715	615384	7113957	Halfway	brown-black vesicular, weathered fossiliferous limestone float.
L842709	615425	7114082	Halfway	grey calcite veined limestone with carbonaceous pits and fractures. Kill zone float.
L842711	615445	7114076	Halfway	moderately fractured grey micritic limestone with trace specks of peachy clay. Subcrop.
L842717	615446	7114087	Halfway	sparry limestone fault breccia with black carbonaceous fractures. Float.
L842716	615449	7114074	Halfway	grey limestone breccia with 3% rusty oxidized pits.
L842717	615446	7114087	Halfway	grey limestone float. Trace peachy clay and carbonaceous dusting along fractures. Cryptic red sphalerite.
L842716	615449	7114074	Halfway	mottled, grey limestone with blocky calcite veining, carbonaceous porous patches and disseminated black carbonaceous speckles. Float.



L842713	615453	7114249	Halfway	grey, porous silty limestone with black specks. Float.
L842710	615455	7114065	Halfway	grey, locally decarbonated limestone with black sooty pits. From killzone boulder float.
L842712	615493	7114158	Halfway	calcite veined, partially clay altered, black speckled creamy limestone float from killzone.
L843788	615496	7114494	Halfway	dark grey micritic limestone breccia with heavy calcite veining. Float.
L843887	615497	7114500	Halfway	Brown soil and assorted small rock fragments taken from near the bottom of pit. Highly calcareous fine grained crystalline carbonate. Grey in color, vitreous lustre. Visible calcite veining and oxide pits from rocky horizon.
L843883	615497	7114500	Halfway	Highly calcareous fine grained crystalline carbonate. Grey in color, vitreous lustre. Visible calcite veining and oxide pits from rocky horizon.
L843884	615497	7114500	Halfway	Brown silty soil developing in recessive zone within outcrop.
L843890	615497	7114487	Halfway	Grey micrite breccia with black fracture seams. Brown staining on surface. Till sample.
L843882	615497	7114500	Halfway	
L843885	615497	7114500	Halfway	Fragments of limestone breccia from a rocky horizon in pit. Oxide tarnish, yellow on weathering surface.
L843886	615497	7114500	Halfway	Grey limestone breccia, black fracture seams and minor calcite veining.
L843881	615497	7114500	Halfway	Grey micrite breccia with black fracture seams from bottom of pit.
L843888	615497	7114487	Halfway	Brecciated, bleached carbonate from outcrop. Minor calcite veining just up slope from hot sample.
L843889	615497	7114487	Halfway	Brecciated, bleached carbonate from outcrop. Minor calcite veining just up slope from hot sample.
L843891	615541	7114470	Halfway	Calcite vein material in brecciated limestone. Calcite vein is brownish with brown staining
L843961	615726	7114270	Halfway	Outcrop sample of calcareous, porous, sandy crystalline carbonate. Localized bands of oxidized material.
L843789	615732	7114368	Halfway	grey, micritic, calcite veined limestone with trace realgar. Float.
L843670	615733	7114372	Halfway	dark grey limestone, heavily calcite vined(crystal form shows) pitted, vugs in calcite bear realgar
L843671	615760	7114353	Halfway	dark grey brecciated, finegrained, limestone, calcite viens, small fleck of realgar Highly calcareous wackestone, calcite fragments in a grey, fine grained carbonate matrix. Contains oxidized pits.
L843893	615761	7114393	Halfway	Pervasively oxidized calcareous wackestone. Small sample.
L843896	615761	7114393	Halfway	Calcareous wackestone with circular oxidizing pits.
L843895	615761	7114393	Halfway	Brown soil, till matrix material with small rock fragments.
L843892	615761	7114393	Halfway	Assortment of variably oxidized and tan colored rock fragments.
L843898	615761	7114393	Halfway	Slightly oxidized calcareous wackestone.
L843900	615761	7114393	Halfway	Near pervasively oxidized calcareous wackestone. Large sample.
L843897	615761	7114393	Halfway	Brown colored calcite vein with dark, non calcareous, porous selvadges.
L843899	615761	7114393	Halfway	Grey, slightly oxidized calcareous wackestone.
L843954	615761	7114393	Halfway	Tan yellowish porous carbonate.
L843952	615761	7114393	Halfway	Brown colored calcite vein fragments with dark, sinuous selvadges/seams.
L843951	615761	7114393	Halfway	White (bleached) fine grained carbonate.
L843953	615761	7114393	Halfway	Bleached? White colored fine grained crystalline carbonate. Minor black fracture seams.
L843894	615761	7114393	Halfway	Outcrop sample of variably brecciated, variably oxidized limestone.
L843960	615778	7114290	Halfway	Outcrop sample of variably brecciated, variably oxidized limestone.
L843959	615778	7114290	Halfway	grey, moderately porous, moderately clay altered carbonaceous pitted limestone. Subcrop.
L843797	615791	7114227	Halfway	yellow, heavily clay altered limestone microbreccia. Float.
L843795	615793	7114280	Halfway	yellow, moderately clay altered limestone microbreccia. Float.
L843796	615793	7114280	Halfway	yellow, moderately clay altered limestone microbreccia. Float.
L843794	615797	7114274	Halfway	yellow, moderately clay altered limestone microbreccia. Float.
L843793	615800	7114267	Halfway	weakly oxidized micritic limestone with minor calcite veinlets and cryptic realgar in vugs. Float
L843677	615800	7114271	Halfway	tan-beige, locally pited, moderately porous, limestone with black fractures in multiple orientations
L843674	615802	7114265	Halfway	beige turbidite limestone, calcite viens and blebs, rusty pyrite, med grained, bearing galen:
L843675	615802	7114265	Halfway	grey brecciated limestone with calcite viens, vugs bear realgar
L843958	615810	7114306	Halfway	Reddish brown soil and small rock fragments (predominantly calcite vein frags)
L843956	615810	7114306	Halfway	Calcite vein material with brown, calcareous wall rock fragments.
L843957	615810	7114306	Halfway	Calcite vein material with brown, calcareous wall rock fragments.
L843955	615810	7114306	Halfway	Calcite vein material with a yellowish tinge.
L843672	615817	7114328	Halfway	white-beige suggy limestone, bearing pyrite
L843790	615835	7114275	Halfway	calcite veined, carbonaceous turbidite. Same as on dale south. Float.
L843791	615835	7114275	Halfway	creamy, moderately porous limestone. Float.
L843792	615835	7114275	Halfway	creamy, moderately porous limestone. Float.
L843676	615842	7114274	Halfway	beige-tan, porous, soft, limestone with small black fractures, clay altered
L843673	615848	7114280	Halfway	grey limestone with small rusty patches and band of slick n slides
L842613	616587	7114795	Halfway	Speckled Chert, redish orange flakes within chert matrix.
K242109	490271	7145312	Rau Regional	carbonate breccia with azurite staining and crystals
K242016	492622	7145571	Grey Copper Hill Legend	Texturally destructive limonitic, trace rusty pyritic siliceous rock from saddle.
K242076	495997	7137233	Cheshire	Qz Vn, Alt Vol, Py, Apy
DD027014	496270	7136541	Ches1	Reddish weathered regolith near anomalous soil sample.
K242106	496273	7136516	Cheshire	bleached volcanic rock, pitted pyrite, with disseminated arsenopyrite
K242012	496485	7136369	Cheshire	Limonite fractured and pitted arsenopyrite-bearing, fine grained grey volcanic rock
K242077	496502	7136632	Cheshire	Bleached vol (subrop) with sulphide pits, Py and Asp
K242107	497033	7136435	Cheshire	rusty calcite and quartz vined volcanic rock
K242013	497414	7136308	Cheshire	Limonitic quartz veined, pyritic black aphanitic folliated rock.
K242015	497414	7136308	Cheshire	Limonitic quartz veined, pyritic black aphanitic folliated rock.
K242014	497414	7136308	Cheshire	Limonitic quartz veined, pyritic black aphanitic folliated rock with calcitic fractures
K242108	497419	7136298	Cheshire	quartz vined volcanic rock, bearing pyrite



DD027058	497775	7136104	TT Pit 105	rusty orange soil exposed as surface
K242018	498953	7141911	Elephant	grey dolostone breccia with heavy hematitic staining, calcite, limonite, hematitic fractures
K242110	498958	7141958	Rau Regional	carbonate breccia
K242019	498972	7141972	Elephant	grey dolostone debris breccia with heavy hematitic staining, calcite, limonite, hematitic fractures.
K242111	499370	7141912	Rau Regional	rusty highly strained carbonate rock
K242020	499633	7141964	Elephant	grey dolostone breccia with hematitic staining, calcite, limonite, hematitic fractures.
K242114	499973	7141560	Rau Regional	carbonate breccia
K242113	499973	7141560	Rau Regional	carbonate breccia
K242117	499973	7141560	Rau Regional	carbonate breccia
K242115	499973	7141560	Rau Regional	carbonate breccia
K242116	499973	7141560	Rau Regional	carbonate breccia
DD027013	514991	7128401	Ocelot far west	Anomalous pod of grey soil.
DD027053	515591	7128517	TT Pit 102	grey till
DD027054	515731	7128274	TT Pit 103	grey-brown till
DD027055	515731	7128274	TT Pit 103	brown dolostone subcrop
K242009	515802	7127994	Ocelot	Dolostone ?compressional shear? Breccia with limonite matrix.
K242008	515802	7127994	Ocelot	Dolostone ?compressional shear? Breccia with limonite matrix.
K242103	515900	7127880	Ocelot	rusty limonitic brecciated dolostone, quartz bearing
K242104	515900	7127880	Ocelot	rusty limonitic brecciated dolostone, quartz bearing
K242007	516043	7127815	Ocelot	Fine grained grey dolostone with pervasive limonitic banding.
K242101	516146	7127901	Ocelot	altered dolostone
K242105	516149	7127902	Ocelot	calcite veined dolostone, with 30% pyrite crystals
K242011	516159	7127895	Ocelot	Pyritic burnt looking limonite vein in calcited veined dolostone
K242010	516169	7127895	Ocelot	Weakly pyritic calcite veined sparry dolostone
K242003	516292	7127757	Ocelot	Locally porous, supergenetically oxidized, rusty red-yellow hydrothermally? altered blue-white dolostone.
K242073	516303	7127754	Ocelot	Rusty limonitic rock with 40% medium grained massive galena in a vein-like filling
K242065	516303	7127754	Ocelot	Rusty limonitic rock with 30% medium grained massive galena in a vein-like filling
K242064	516303	7127754	Ocelot	Brown weathering, rusty limonitic boulder with 15%? blebby galena fillings
K242071	516303	7127754	Ocelot	Rusty limonitic rock with 20% medium grained massive galena in a vein-like filling
K242069	516303	7127754	Ocelot	Rusty brown, limonitic, pyrite cube and blebby galena bearing boulder
K242062	516303	7127754	Ocelot	Rusty orange siliceous rock with 30% zoned yellow tabular ?barite? Megacrysts and 30% galena.
K242060	516303	7127754	Ocelot	Brown weathering, rusty limonitic boulder with blebby galena fillings and ?barite? crystals
K242075	516303	7127754		
K242063	516303	7127754	Ocelot	Rusty orange siliceous rock with zoned yellow tabular ?barite? megacrysts.
K242070	516303	7127754	Ocelot	Rusty limonitic, euhedral barite tab rich rock.
K242067	516303	7127754	Ocelot	Rusty limonitic boulder with abundant ?barite? Crystals.
K242074	516303	7127754	Ocelot	Red orange brown weathering mottled textured rock.
K242072	516303	7127754	Ocelot	Dense, Rusty limonitic, euhedral barite megacryst bearing rock.
K242068	516303	7127754	Ocelot	Rusty limonitic boulder with abundant ?barite? Crystals.
K242066	516303	7127754	Ocelot	Rusty orange siliceous (Very hard) rock with brecciated textures and barite crystals.
K242061	516303	7127754	Ocelot	Full of megacrystic euhedral zoned barite. Rusty boulder.
K242059	516303	7127754	Ocelot	Rusty orange siliceous rock with zoned yellow ?barite? megacrysts.
K242017	516471	7128351	Ocelot	Pale yellow limestone with calcite microveinlets and strongly disseminated very fine grain cryptic pyrite.
K242022	516477	7128364	Ocelot	Pale yellow limestone with calcite microveinlets and strongly disseminated very fine grain cryptic pyrite.
K242023	516477	7128364	Ocelot	Pale yellow limestone with calcite microveinlets and strongly disseminated very fine grain cryptic pyrite.
K242054	516616	7127662	Ocelot	Oxidized material Qz vt
K242052	516616	7127622	Ocelot	Lbx Insitu
K242053	516616	7127622	Ocelot	DST Bx Oxide Vt's
DD027056	516626	7126992	TT Pit 104	mixed pebble and cobble till, with beds of more soil
K242021	516753	7128680	Ocelot	Green marble with very fine grained disseminated pyrite, 2%
K242001	516818	7127568	Ocelot	Blue cheese dolostone with drusy quartz and heavy limonite veinlets.
K242002	516830	7127568	Ocelot	Blue cheese dolostone with drusy quartz and microbrecciating limonite veinlets.
DD027051	516883	7127400	TT Pit 101	brown soil
DD027052	516883	7127400	TT Pit 101	grey till
DD020998	516887	7127477	Jesse Pit 1	light brown clay
DD027006	516890	7127460	Pit 2	Till. Yellow-grey clay-silt with subrounded pebbles and cobbles.
DD027005	516890	7127460	Pit 2	Coarse grained granule to sandy grey native regolith
K242057	516890	7127473	Ocelot	Pit sample (Rock in Till)
K242058	516931	7127487	Ocelot	Pit sample (Rock in Till)
K242004	516932	7127484	Ocelot	White sparry subangular dolostone cobble with abundant rusty limonite and 2% blebby pockets of galena.
DD027009	516932	7127484	Pit 3	Trace pyrite. Found in \pit 3 in upper 6" of till below 20cm organic layer.
K242006	516932	7127681	Ocelot	Rusty red and dark grey soil on top of subcrop layer.
K242005	516932	7127484	Ocelot	Dolostone breccia with heavy rusty 0.3cm pyrite cubes and local limonite filling.
K242005	516932	7127484	Ocelot	White sparry dolostone subcrop material at base of Pit 3 with blue dolomite fractures and trace limonitic fractures.
Dd027011	516932	7127484	Pit 3	Till. Yellow-grey clay-silt with subrounded pebbles and cobbles. Top of layer contained a galena trace bearing cobble.
K242102	516945	7127487	Ocelot	black and white brecciated dolostone
DD027002	517002	7127533	Pit 1	Till-yellow-grey



DD027001	517002	7127533	Pit 1	Till-grey
DD020997	517010	7127510	Jesse Pit 2	light brown clay
K242055	517027	7127400	Ocelot	LBx Float
K242056	517050	7127365	Ocelot	Lbx Float
DD020999	517086	7127502	GC3 Pit	light brown clay
DD021000	517086	7127502	GC3 Pit	light green clay
K242051	517094	7127428	Ocelot	Limonite from Gossan
K242112	520247	7124449	Rau Regional	volcanic clastic bearing pyrite
L837756	520869	7123867	RTR-8	creamy pick and tan coloured sparry dolostone colluvium from bottom of pit 3, 0.7m depth.
L837757	520967	7123927	RTR-8	Reddish oxidized soil layer, 5cm thick at 1.9m depth in pit 4.
L837758	520967	7123927	RTR-8	tan coloured sandy soil from 1.7m thick layer in pit 4.
K242180	520985	7123946	RTR-8	white and black fractured dolostone with black viens
DD027064	520991	7123884	RTR-8 Pit 2 TT	grey till
DD027065	520991	7123884	RTR-8 Pit 2 TT	brown subcrop
L837729	521000	7123960	RTR-8	Massive limonite with amigdoidal calcite from red soil layer below till, in uppermost colluvium
L837760	521000	7123960	RTR-8	Botryoidal calcite vugs rimming brown oxidized veinlets in highly fractured dolostone
				Bulk rock sample from bottom of the pit, 2m depth. Angular, mottled, pitted, blue-white limestone with abundant stockwork limonitic veinlets hosting abundant rusty 2mm pyrite cubes. From basal colluvial layer.
L837759	521000	7123960	RTR-8	Also noted abundant quartz fragments in the angular tan coloured banded clay-mineral dominated rock with dendritic brown limonite in fractures. From till-colluvial interface.
L837731	521000	7123960	RTR-8	angular submetallic brown limonite cobble. 6cm wide. From till-colluvial interface.
L837730	521000	7123960	RTR-8	red soil from layer below till. Fine sand to clay. Associated with limonitic pebbles.
L837725	521000	7123960	RTR-8	pink, coarse grained sandy to granular colluvial soil. Appears to be directly weathered from the colluvium hosted within it. ie: L837727-'28
L837732	521000	7123960	RTR-8	Angular, mottled limonitic rock with amigdoidal calcite and abundant oxidized 2mm pyrite cubes disseminated. From basal colluvial layer at bottom of pit.
L837726	521000	7123960	RTR-8	Angular, mottled, pitted, blue-white limestone with abundant stockwork limonitic veinlets hosting abundant rusty 2mm pyrite cubes. From basal colluvial layer at bottom of pit.
L837727	521000	7123960	RTR-8	Angular, mottled, pitted, blue-white limestone with abundant stockwork limonitic veinlets hosting abundant rusty 2mm pyrite cubes. From basal colluvial layer at bottom of pit.
L837728	521000	7123960	RTR-8	Angular, mottled, pitted, blue-white limestone with abundant stockwork limonitic veinlets hosting abundant rusty 2mm pyrite cubes. From basal colluvial layer at bottom of pit.
DD027063	521372	7124188	RTR-8 Pit 1 TT	brown till or colluvium
K242152	521372	7124188	RTR-8	grey and white dolostone breccia
L837724	521391	7124230	RTR-8	tan coloured till from frozen pit. 20cm depth.
G0557610	521682	7124397	RTR-8	Oxide material in float.
G0557611	521735	7124409	RTR-8	Oxide material in float.
L843502	527797	7115803	2GT	powdery light pastel green/yellow mineral some with shiny flakes, some granular quartz, and black sooty fine grains
L843855	527799	7115790	2GT	Channel 1 - 0-0.2m Dark, sooty material with minor quartz and sulphate
L842641	527799	7115790	2GT	Limonite. Insitu.
L843862	527799	7115790	2GT	Channel 2 - 0.85-1.85 m Sooty, highly pyritic material with quartz and sulphate
L842864	527799	7115790	2GT	rusty oxidized rock, pitted, orange blebs, metallic shimmer locally, bearing clear vitreous mineral
L842866	527799	7115790	2GT	rusty oxidized rock, pitted, orange blebs, metallic shimmer locally, bearing clear vitreous mineral
L842643	527799	7115790	2GT	Large limonite boulder. Insitu.
L843863	527799	7115790	2GT	Channel 3 - 0-0.2 m Shaley fragments with dark clayey material (Py and S04)
L842642	527799	7115790	2GT	Limonite. Insitu.
L842867	527799	7115790	RTR	rusty oxidized rock, pitted, orange blebs, metallic shimmer locally, bearing clear vitreous mineral, vossicular
L843866	527799	7115790	2GT	Channel 4 - 0.5-1.5 m Highly pyritic black sooty material. Previously ran 2.64 g/l
L843573	527799	7115790	2GT	Sooty Pyritic gouge from 2GT showing (tour sample).
L842639	527799	7115790	2GT	Limonite. Insitu.
L843857	527799	7115790	2GT	Channel 1 0.3-0.4 m Dark, Sooty quartz and sulphate.
L843856	527799	7115790	2GT	Channel 1 - 0.2-0.3m Oxide horizon
L842861	527799	7115790	RTR	dark grey soft rock, quartz vien, rusty and beige blebs, dark sooty materia
L842638	527799	7115790	2GT	Oxidized fossiliferous limestone (crinoids)
L843867	527799	7115790	2GT	Channel 4 - 1.5-2.0 m Platy shale, clear mineral and oxide on fracture surfaces.
L843858	527799	7115790	2GT	Channel 1 0.4-0.9 m Shales
L843860	527799	7115790	2GT	Channel 2 - 0-0.15m Shale
L842863	527799	7115790	RTR	rusty oxidized rock, quartz viened, orange blebs, clear vitreous mineral, dark grey soft patcf
L843864	527799	7115790	2GT	Channel 3 - 0.2-1.7 m Highly oxidized pitted material. Brownish red and yellowish orange oxide. Relict fos Ist?
L843865	527799	7115790	2GT	Channel 4 - 0-0.5 m - Variably oxidized material with abundant clear vitreous mineral. Probably altered limestone.
L842868	527799	7115790	RTR	grey beige orange, altered rock hydrothermal dolostone crystals, vitreous clear mineral
L842865	527799	7115790	RTR	quartz with clear vitreous mineral, creamy soft material, bearing pyrite
L842862	527799	7115790	RTR	oxidized rusty rock, clear vitreous mineral, pitted and porous
L843861	527799	7115790	2GT	Channel 2 - 0.15-0.85 m Highly oxidized altered carbonate and/or shale? Abundant clear vitreous mineral.
L842636	527799	7115790	2GT	Course grained, sparry euhedral dolomite with minor quartz.
L843859	527799	7115790	2GT	Channel 1 0.9-1.9 m, Variably oxidized dolomite, quartz and an unidentified, clear vitreous mineral.
L842637	527799	7115790	2GT	Course grained, sparry euhedral dolomite with minor quartz.



L842635	527799	7115790	2GT	Limonite with large dolomite crystals.
L842640	527799	7115790	2GT	Limonite. Insitu.
K242130	527805	7115792	Kathy	black and white sulphide bearing, extremely weak
K242142	529384	7116411	Kathy	white limestone bearing sulphides
K242140	529396	7116408	Kathy	massive sulphides
K242143	529400	7116409	Kathy	massive sulphides dominated by pyrotite
K242129	529560	7116619	Kathy	sulphide bearing rusty scarn
L837714	529732	7116184	Kathy South	malachite-bearing quartz vein in grey ascular massive ?tremolite?. In situ.
K242144	530000	7116869	Kathy	dark grey limestone bearing sulphides dominated by pyrotite, calcite crystals
L837706	530005	7116866	Kathy South	highly strained siliceous skarn with disseminated sulphides. In situ
K242148	530478	7117740	Kathy	highly strained marble bearing sulphides
DD020993	530541	7117046	Jesse kathy 1	0
DD020994	530541	7116994	Jesse kathy 2	0
L837712	530591	7117036	Kathy South	black radiating tremolite skarn. No apparent sulphide phase. In situ
L837709	530600	7117045	Kathy South	semi-massive sulphides, euhedral pyrite in massive pyrrhotite with late chalcopyrite in quartz-calcite-tremolite oxidized skarn. In situ
L837710	530600	7117045	Kathy South	semi-massive sulphides, euhedral pyrite in massive pyrrhotite with late chalcopyrite in quartz-calcite-tremolite oxidized skarn. In situ
L837708	530600	7117045	Kathy South	semi-massive sulphides, euhedral pyrite in massive pyrrhotite with late chalcopyrite in quartz-calcite-tremolite oxidized skarn. In situ
L837707	530600	7117045	Kathy South	semi-massive sulphides, euhedral pyrite in massive pyrrhotite with late chalcopyrite in quartz-calcite-tremolite oxidized skarn. In situ
L837711	530600	7117045	Kathy South	semi-massive sulphides, euhedral pyrite in massive pyrrhotite with late chalcopyrite in quartz-calcite-tremolite oxidized skarn. In situ
K242147	530602	7117049	Kathy	oxidized tremolite skarn
K242146	530603	7117046	Kathy	semi-massive sulphides, euhedral pyrite in other sulphides, white crystals
K242145	530603	7117046	Kathy	semi-massive sulphides, euhedral pyrite in other sulphides, white crystals
G0557618	530729	7119932	Flat Top	Oxidized amphibole skarn from outcrop. Early actinolite with late tremolite overgrows. Amphiboles are acicular, fibrous and radiating.
G0557619	530731	7119924	Flat Top	Oxidized tremolite-actinolite skarn sample taken from outcrop. Juxtaposed against carbonate breccia.
G0557617	530741	7119938	Flat Top	Oxidized amphibole (actinolite dominant) skarn with euhedral calcite (float samples).
G0557616	530747	7119970	Flat Top	Amphibole skarn sample (actinolite dominant)
G0557615	530764	7119957	Flat Top	Tremolite-actinolite skarn sample taken from angular boulder.
G0557614	530774	7119970	Flat Top	Vein material within carbonate dominated by amphiboles.
L837713	530790	7117275	Kathy South	recrystallized creamy blue limestone with trace tremolite and minor oxides in subcrop.
G0557612	530797	7120036	Flat Top	Oxidized, amphibole bearing (predominantly actinolite) skarn in float
G0557613	530807	7119997	Flat Top	Skarnified (amphibole bearing) bluish grey carbonate.
K242031	532075	7117425	Kathy	arsenopyrite bearing, medium grained bleached ingeous rock in float.
K242032	532092	7117672	Kathy	massive pyrrhotite with 1% clay altered tremolite needles. In mossy leakage point. Suspect downhill dispersion from source.
K242123	532113	7117703	Kathy	deep green scarn rock, massive sulphides
K242122	532172	7117331	Kathy	rusty scarn rock, molybdenite-magnetite bearing
K242121	532172	7117331	Kathy	grey crumbly limestone, 15% pyrite
K242030	532173	7117330	Kathy	orange-weathering quartz-muscovite-calcite skarn rock with blebby pyrite inclusions. Subcrop.
K242029	532173	7117330	Kathy	orange-weathering quartz-muscovite-calcite skarn rock with trace molybdenite and pyrite. Subcrop.
DD020952	532267	7117651	Jesse kathy 5	0
K242124	532294	7117804	Kathy	quartz scarn rock, pyrite bearing
DD020953	532323	7117649	Jesse kathy 5	0
K242044	532403	7117674	Kathy	1.2m down in pit, silicified green arsenopyrite-pyrrhotite bearing skarn in float
DD020951	532403	7117674	Jesse kathy 4	0
K242043	532403	7117624	Kathy	1.2m down in pit, silicified green arsenopyrite-pyrrhotite bearing skarn in float
K242127	532506	7117534	Kathy	calcareous scarn rock, tremolite, actinolite, muscovite
K242128	532507	7117549	Kathy	rusty scarn rock, partially silicified, sulphide bearing
K242126	532512	7117519	Kathy	rusty silicified scarns rock, sulphide bearing
DD027061	532516	7117505	Kathy Pit 1 TT	0
DD027060	532516	7117505	Kathy Pit 1 TT	0
K242125	532517	7117501	Kathy	light grey scarn rock, sulphide bearing
K242039	532520	7117570	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242040	532521	7117564	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242038	532521	7117564	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242041	532521	7117557	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242037	532522	7117564	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242085	532525	7117557	Kathy	Highly oxidized tremolite skarn.
K242086	532525	7117557	Kathy	Green, siliceous, variably oxidized, sulphidic, tremolite skarn.
K242088	532525	7117556	Kathy	
K242087	532525	7117557	Kathy	Creamy, Brown-White tremolite skarn with ox pits



K242034	532526	7117570	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242035	532527	7117563	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242036	532527	7117563	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242033	532535	7117578	Kathy	Moderately oxidized, pale green-beige, arsenopyrite-pyrite +/- pyrrhotite and or chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242042	532540	7117450	Kathy	Moderately oxidized, pale green-beige, arsenopyrite- chalcopyrite bearing, silicified tremolite - actinolite skarn.
K242045	532553	7117400	Kathy	speckled actinolite-tremolite skarn with minor rusty pyrite
K242131	532557	7117395	Kathy	grey-beige tremolite scarn, bearing sulphide
K242046	532681	7117373	Kathy	cream coloured tremolite skarn with rusty oxides disseminated
K242050	532692	7116594	Kathy	massive radiating creamy tremolite skarn with oxidized patches and cryptic disseminated reddish oxides.
K242133	532765	7117287	Kathy	rusty creamy tremolite scarn, bearing sulphide balls
K242132	532786	7117296	Kathy	creamy tremolite scarn, light green needles, bearing sulphides
K242141	532786	7117296	Kathy	creamy tremolite scarn, light green needles, bearing sulphides and malichite
K242119	532788	7117345	Kathy	grey-beige scarn rock, pyrite bearing
K242120	532788	7117345	Kathy	white-grey scarn rock, pyrite bearing
K242047	532792	7117338	Kathy	grey, radiating ascicular tremolite skarn with cryptic disseminated reddish oxides
K242028	532794	7117341	Kathy	blue-grey marble with calcite-vein hosted pyrite and limonite blebs.
K242027	532794	7117341	Kathy	Weakly pyritic calcite veined skarn rock with radiating ascicular wollastonite or tremolite
K242025	532794	7117341	Kathy	disseminated dodecahedral pyrite in actinolite-bearing calcareous skarn rock.
K242026	532794	7117341	Kathy	rusty pyritic calcite veins in calcareous skarn rock
K242099	532798	7117320	Kathy	Creamy brown skarn from East striking structure with R shears (brittle shear zone).
K242100	532798	7117320	Kathy	Creamy white tremolite skarn with minor oxide pits sampled from high angle structure
K242138	532801	7117320	Kathy	rusty-black, oxidized scarn
K242096	532803	7117314	Kathy	Oxidized skarn material from high angle structure (showing)
K242097	532803	7117314	Kathy	Creamy white, variably calcareous skarnified material with Qz and malachite? Beside high angle structure (showing)
K242098	532803	7117314	Kathy	White, creamy tremolite skarn beside structure.
K242095	532810	7117250	Kathy	Ca-Qz-Trem-Sulphide(Mo-Bi?) vein sample
K242048	532810	7117313	Kathy	in situ cream coloured tremolite skarn with chalcopyrite and reddish oxides in a silicious vein proximal to blueish tremolite skarn.
K242092	532811	7117335	Kathy	Tremolite, Calcite, Quartz, oxide vein.
K242139	532819	7117383	Kathy	grey-creamy, tremolite scarn, bearing sulphides
K242049	532821	7117331	Kathy	cream coloured tremolite skarn with bladed green actinolite, rusty oxides disseminated along with a grey metallic detrititic mineral and trace molybdenite.
K242091	532822	7117345	Kathy	Insitu creamy brown tremolite skarn.
K242094	532825	7117176	Kathy	Greyish, Blue Tremolite rich skarn in subcrop.
L837705	532828	7117371	Kathy	creamy tremolite skarn with cryptic disseminated sulfides and oxides. In subcrop.
K242089	532829	7117333	Kathy	Creamy white, skarnified marble with tremolite
K242134	532835	7117337	Kathy	grey-creamy, tremolite scarn, bearing sulphides
L837704	532838	7117220	Kathy	silicified veined tremolite skarn with chalcopyritic selvages on quartz-tremolite veins
K242083	532842	7117349	Kathy	Creamy, white tremolite skarn
K242084	532842	7117349	Kathy	Powdery skarnified material with oxide staining.
K242082	532842	7117349	Kathy	Creamy, Bash, Tremolite skarn
K242135	532849	7117364	Kathy	oxidized tremolite scarn
L837701	532851	7117348	Kathy	highly oxidized tremolite bearing fractures in blue aphanitic skarn rock
K242137	532855	7117229	Kathy	grey-creamy, tremolite scarn, bearing sulphides
L837703	532856	7117254	Kathy	creamy tremolite skarn with cryptic disseminated chalcopyrite and oxides
L837702	532859	7117307	Kathy	fine grained chalcopyrite bearing tremolite skarn with disseminated reddish oxide:
K242093	532859	7117308	Kathy	Creamy white tremolite skarn subcrop. Minor sulphides and oxidized material.
K242090	532860	7117231	Kathy	Variably oxidized, skarnified marble subcrop with tremolite.
K242136	532872	7117294	Kathy	creamy tremolite scarn, bearing sulphides
K242080	533080	7117343	Kathy	Tremolite Skarn, Ox Pits from large angular boulder.
K242079	533080	7117343	Kathy	Tremolite Skarn, Ox Pits from large angular boulder.
K242081	533080	7117343	Kathy	Phaneritic intrusive, oxide pits.
K242078	533080	7117343	Kathy	Tremolite Skarn, Ox Pits from large angular boulder.
K242024	533240	7116576	Kathy	yellow-green weathering grey mafic volcanic with 5% disseminated arsenopyrite
K242118	533243	7116769	Kathy	altered volcanic rock
G0557601	555828	7117995	Edina	Recessive zone in chert outcrop. Possible structure.
G0557608	555840	7118010	Edina	Soil sample of material from anomalous soil pit.
G0557602	555840	7118010	Edina	Chert from pit dug at anomalous soil picket.
G0557603	555840	7118010	Edina	Rounded silt stone cobble dug out of anomalous soil picket.
K242149	555899	7118330	Edina	calcite quartz vien in shale bearing malichite
G0557609	555948	7117992	Edina	B horizon soil sample from anomalous soil pit.
G0557605	555948	7117992	Edina	Chert subcrop from anomalous soil pit.
G0557604	555948	7117992	Edina	Limonic material from Ah layer with malachite.
L837723	556030	7118045	Edena	Pit 2 regolith. Black shale subcrop.
L837722	556030	7118045	Edena	Pit 2 till. Brown-orange till with rare cobbles and pebbles.
L837721	556140	7118000	Edena	Pit 1 regolith. Black shale subcrop.
L837720	556140	7118000	Edena	Pit 1 till. Brown-orange till with rare cobbles and pebbles.



G0557607	556203	7118011	Edina	Silicified, cleaved material with quartz veins and abundant malachite staining
G0557606	556246	7118410	Edina	Decarbonized, calcite veined limestone from subcrop.
K242150	556247	7118399	Edina	decarbonized limestone, grey with calcite viens
L837717	556250	7118408	Edena	grey decarbonated limestone with strong calcite veining
L837718	556250	7118408	Edena	grey decarbonated limestone with strong calcite veining
K242151	556266	7118048	Edina	silver metallic sulphide, dense rock, rusty of none silver parts
L837719	556266	7118042	Edena	highly strained malchite-bearing siliceous rock with sulphide-bearing fractures
DD027062	556340	7118149	TT Pit 1 Edina	orange brown till
L837715	556345	7118069	Edena	blue-grey calcareous siltstone with quartz veining and rare black microvienlets. Rusty fractures. Found in float 15m below head of major seepage containing abundant malachite-float.
L837716	556479	7118102	Edena	pale green-yellow malachite-manganese-pyrite bearing siliceous rock in subcrop.
L837789	568654	7117327	Anubis0	limonitic quartz breccia in float from top of landslide area.
L837790	568658	7117320	Anubis0	pit sample from base of 1.5m deep pit in landslide scarp between anomalous contour samples. Black shale chips.
L837791	568658	7117320	Anubis0	limonitic quartz brecciating angular dolostone boulder from pit at 0.3m depth
L837787	569210	7117313	Anubis0	quartz veined black shale, weakly limonitic with single speck of cryptic sulphide. From pit over anomolous soil sample.
L837788	569271	7117456	Anubis0	limonitic quartz veined black shale from subcrop on top of knoll.
J980252	569297	7117357	Anubis0	grey-blue siltstone bearing pyrite and other silver sulphide , vuggy porous patches, rusty weathering
J980253	569557	7117446	Anubis0	black platey siltstone
L837749	570251	7121139	NDR-5b Midway Ridge System	yellow-grey weathering kaolinite altered rock with calcite space fillings. Weak manganse expression along fractures. Cobble found midway down talus slope among silty limestone boulders and cobbles.
K242173	570540	7121505	Midway ridge system	oxidized rock, botroydal calcite, metallic mineral
L837750	571084	7122010	NDR-5b Midway Ridge System	buff-grey partially decarbonated silty limestone cobble in talus.
L837751	571084	7122010	NDR-5b Midway Ridge System	buff-grey partially decarbonated silty limestone cobble in talus with thin calcitic microveinlets
K242174	571089	7122000	Midway ridge system	grey decarbonized limestone
K242175	571258	7122082	Midway ridge system	grey-white limestone partially decarbonized
L837752	571279	7122088	NDR-5b Midway Ridge System	buff-grey partially decarbonated silty limestone with calcite space fillings. In talus.
K242176	571290	7122088	Midway ridge system	pourus grey-white limestone
K242177	571318	7122097	Midway ridge system	tan pourus limestone calcite viens
K242178	571589	7122289	Midway ridge system	tan-biege limestone, pourus, calcite viens, green staining
K242179	571827	7123024	Midway ridge system	shale
L837753	571916	7122847	NDR-5b Midway Ridge System	orange-yellow-green weathering black shale float at edge of creek where a compound slide has dumped a lot of shale into the creek. The outcrop is visible in the head scarp some 100m up to the west.
K242195	571941	7123659	Midway ridge system	black clay, associated with black sand and black fossiliferous limestone, layer of clay ~4cm think parallel to bedding
G0557629	571951	7123650	Midway	Dark, sooty carbonaceous sand found in association with simillar, more competent material in outcrop.
G0557628	571951	7123650	Midway	Dark, sooty, carbonaceous, possibly decarbed fragments taken from outcrop.
G0557630	571956	7123600	Midway	Porous, altered dolostone sample found in float.
L837773	572000	7123643	NDR-5b Midway Ridge System	black porous weakly to moderately calcareous partially ?decarbonated? Limestone, strataform within fossiliferous limestone unit. Subcrop.
L837774	572006	7123638	NDR-5b Midway Ridge System	black porous weakly to moderately calcareous partially ?decarbonated? Limestone, strataform within fossiliferous limestone unit. Subcrop.
G0557627	572058	7123662	Midway	Limonitic wackestone found in float.
G0557626	572118	7123643	Midway	Banded, carbonaceous limey siltstone found in float. High inherent permeability.
L837772	572187	7123357	NDR-5b Midway Ridge System	limonitic float. Mottled texture.
L837771	572187	7123357	NDR-5b Midway Ridge System	clay altered rock with medium grained disseminated rusty pyrite. In situe near orange float train.
K242194	572188	7123355	Midway ridge system	grey, fractured, dolostone, with calcite viens that have liminit
K242193	572195	7123392	Midway ridge system	grey dolostone breccia, clay altered matrix, rusty coating and some of fresh surface
G0557625	572226	7123623	Midway	Oxidized dolostone breccia fragments dug out of pit.
G0557624	572226	7123623	Midway	Sooty dolostone frag with hematite staining dug out of recessive area (possible structure)
G0557623	572392	7123542	Midway	Dolostone sample from outcrop. Possible decarb.
K242192	572453	7123255	Midway ridge system	grey rock with white viens, highly fractured and fizzes on fractures
G0557622	572464	7123522	Midway	Sandy, oxidized dolostone material from within brittle shear zone.
G0557620	572470	7123525	Midway	Diamictite sample found in float (host rock potential)
G0557621	572470	7123525	Midway	Ca veined dolostone breccia (possible decarb) float
K242191	572522	7123112	Midway ridge system	rusty red and orange limonitic limestone, vessicular and locally porous
L837770	572523	7123115	NDR-5b Midway Ridge System	tan coloured mottled, vuggy, limonite intruded limestone float. Large angular cobble dug from scree slope near top of limonite float train.
L837775	572820	7123287	NDR-5b Midway Ridge System	black porous weakly to moderately calcareous partially ?decarbonated? Limestone. Subcrop from ridge top.
K242196	572883	7122163	Midway ridge system	dark grey limestone with lenses of decarbonized pyrite bearing, porous material, and disseminated pyrite
K242200	573031	7121821	Midway ridge system	grey-black fine grained limestone bearing pyrite associated with brown patches, tan weathering
J980250	573095	7121842	Midway ridge system	grey limestone, bands of light and dark grey, weathings bands of blobs coated in white, bearing pyrite crystals
K242197	573207	7122318	Midway ridge system	tan, decarbonized layer of fossiliferous limestone with 1cm of dark purple metallic, pyrite?



K242199	573234	7122207	Midway ridge system	tan, decarbonized layer of fossiliferous limestone, 3cm of tan decarb between unaltered LS and 1cm of dark purple metallic, pyrite?
K242198	573317	7122244	Midway ridge system	vessicular fossiliferous limestone, rusty of fractures with 1cm layer dark purple metallic, pyrite?
J980251	573326	7120567	Midway ridge system	grey fine grained limestone bearing pyrite
L842812	573410	7123820	NDR	yellow limonite
L842817	573497	7123671	NDR	orange, vossicular, limonite
L842808	573569	7123471	NDR	limonite, slick n' slides on one surface
L842818	573811	7122845	NDR	limonite viened, highly fractured, grey calcarious dolomite
K242172	575564	7122085	Midway ridge system	vessicular carbonate limestone
L837755	575618	7122997	NDR-5b Midway Ridge System	Lone rusty limonitic cobble in float.
L837783	575715	7122690	NDR-5b Midway Ridge System	massive limonite boulder in subcrop.
L837784	575715	7122690	NDR-5b Midway Ridge System	massive limonite boulder in subcrop.
L837782	575720	7122686	NDR-5b Midway Ridge System	space-filling limonite with calcite microfractures in clay altered dolostone float. Boulder, near source.
L837781	575726	7122679	NDR-5b Midway Ridge System	limonite-bearing fault breccia float near source.
L837754	575742	7122678	NDR-5b Midway Ridge System	Red rusty limonitic boulder in float. Several such cobbles were seen proximally.
L837785	575790	7122542	NDR-5b Midway Ridge System	black patch of weakly calcitic soil with associated black porous calcite-veined limestone
L837786	575801	7122380	NDR-5b Midway Ridge System	limonitic float and oxidized red-orange soil near source, 60m up slope from hot silt sample.
L837780	575853	7122664	NDR-5b Midway Ridge System	highly porous medium grained cryptic pyrite bearing angular clast dolomite float found on edge of steep draw.
L837779	576052	7122604	NDR-5b Midway Ridge System	silvery sulphide-bearing limonite vein material in fossiliferous paleozoic limestone.
L837778	576124	7122619	NDR-5b Midway Ridge System	black moderately porous, weakly calcitic rock in float, traced to statorform layer at base of dolostone bed 5m up slope.
L837776	576234	7122652	NDR-5b Midway Ridge System	limonitic cobbles and platy pebbles in scree slope float in narrow float train.
L837777	576234	7122652	NDR-5b Midway Ridge System	in situ limonite-bearing calcite veins in grey, fine grained dolostone. 015/85E
K242169	576331	7122594	Midway ridge system	black dolostone with calcite
K242170	576375	7122605	Midway ridge system	rusty fractured limestone
K242171	576412	7122650	Midway ridge system	vessicular rusty limestone
J980274	580206	7117312	NDR-4	light brown, porous, weakly calcarious, quartz viened
L842519	580363	7117083	Anubis0	rusty, very porous, limonitic, texturally destroyed rock in float.
K242163	580449	7123641	Midway ridge system	grey limey siltstone
K242168	580453	7124357	Midway ridge system	altered fossiliferous limestone
K242161	580460	7123470	Midway ridge system	fractured limestone with calcite viens
K242160	580508	7123514	Midway ridge system	grey limey siltstone
K242166	580570	7124008	Midway ridge system	dark grey limer siltstone bearing iron sulphide
K242165	580578	7123997	Midway ridge system	light grey limey siltstone
K242167	580584	7124046	Midway ridge system	grey vossicular limestone
K242164	580585	7123962	Midway ridge system	dark grey limey siltstone
K242162	580612	7123680	Midway ridge system	black limey stilstone, with calcite viens
K242159	580682	7123528	Midway ridge system	limey siltstone
K242154	580701	7124350	Midway ridge system	grey limestone with calcite viens and red staining
K242155	580701	7124350	Midway ridge system	calcite vien with staining
K242157	580715	7123364	Midway ridge system	highly fractured grey limestone
L837743	580765	7124836	NDR-5b Midway Ridge System	grey ooidal dolostone from top of horn on top of mountain north above creek head. In situ.
K242158	580774	7123430	Midway ridge system	calcarious wackestone bearing iron sulphides
L842518	580896	7117174	Anubis0	brown, decarbonated chert pebble conglomerate. Ridgetop float.
L842815	580960	7116627	NDR	creamy limestone, with limonitic pits
K242156	581030	7124454	Midway ridge system	silicious rock with calcive viens
L842513	581051	7117921	Anubis0	highly porous, weakly foliated fossiliferous limestone with texturally destructive 'decarb' in vein-like pattern. In float on ridge spur.
L837742	581074	7124542	NDR-5b Midway Ridge System	grey-yellow weathering, highly fractured grey limey siltstone. In situ.
L842515	581085	7117757	Anubis0	orange weathering quartz and calcite veined blue limestone float.
L837741	581103	7124533	NDR-5b Midway Ridge System	creamy-grey mottled locally oxidized siliceous rock in creek.
L842517	581124	7117578	Anubis0	weakly oxidized, calcite brecciated grey-blue limestone subcrop.
L842516	581125	7117633	Anubis0	pitted, limonitic quartz veins in grey siltstone. Outcrop.
L842514	581132	7117744	Anubis0	quartz veined outcropping lenticularly interbedded limestone and black shale
K242153	581136	7124832	Midway ridge system	grey rusty breccia dolostone
J980264	581137	7118304	NDR-4	fossiliferous limestone with clasts of carbonaceous material which is a mix of fossil LS and siltstone
L842512	581140	7118006	Anubis0	limonite and quartz veined black shale float near hot silt.
L842508	581145	7118305	Anubis0	orange weathering fossiliferous limestone and black shale fault breccia. In situ.
L842510	581162	7117948	Anubis0	quartz veined, polymictic, well rounded chert dominated pebble conglomerate in medium to fine grained terregenous matrix. Abundant in float above high silt value.
L842511	581162	7117948	Anubis0	strongly quartz veined, light grey, fine-grained quartz rich sandstone in float
L837740	581167	7124506	NDR-5b Midway Ridge System	creamy partially decarbonated, mottled, partially silicified limestone cobble in float on west side of creek.
L837739	581167	7124506	NDR-5b Midway Ridge System	creamy partially decarbonated, weakly oxidized, partially silicified limestone boulder in float on west side of creek.
L842509	581220	7118218	Anubis0	black, highly strained, highly porous rock with calcite nodule. From slump into creek on hillside
L837769	581306	7125100	NDR-5b Midway Ridge System	Weakly calcareous, locally porous pebble conglomerate float with pocky texture. Bulk sample from kill zone.
J980265	581322	7118246	NDR-4	altered siltstone, rusty and coated with grey coating, limonitic
K242189	581325	7125093	Midway ridge system	decarbonized, weakly calcarious conglomeration, porous matrix, edges slightly rounded



J980272	581534	7117739	NDR-4	orange altered fossiliferous limestone, calcite viens, porous, rusty pyrite bearing
J980273	581534	7117739	NDR-4	grey fossiliferous limestone, rusty coating, black carbonaceous clasts, bearing rusty pyrite
J980271	581534	7117739	NDR-4	grey-white fossiliferous limestone with rusty coating, bearing pyrite
J980268	581578	7118040	NDR-4	grey limestone with layer of black carbonaceous through it
J980267	581585	7118053	NDR-4	breccia, mix of siltstone and fossiliferous limestone, rusty, weak, porous, vuggy
J980270	581586	7117875	NDR-4	clay altered calcarious, quartz viened
J980269	581598	7117921	NDR-4	beige-white, weakly calcarious, quartz viened, clasts are dark, some weak some hard, conglomerate
J980266	581618	7118239	NDR-4	breccia, mix of siltstone and fossiliferous limestone, parts are clay altered , vuggy and porous locally mottled textured creamy decarbonated limestone with pockey cavities. Local veiney silicification.
L837738	581864	7124151	NDR-5b Midway Ridge System	Subrounded boulder in creek float.
L837737	581968	7124047	NDR-5b Midway Ridge System	grey banded limestone with compressional shear fractures. Subrounded boulder in creek float.
L837736	582113	7123871	NDR-5b Midway Ridge System	creamy decarbonated limestone with local argillic alteration and very fine clear microveinlets. In creek float.
L837735	582170	7123770	NDR-5b Midway Ridge System	hard blue-grey limey siltstone. In situ.
L837733	582246	7123568	NDR-5b Midway Ridge System	micritic limestone with red and orange clay bands. Highly fracture. In alluvial fan. \
L837734	582256	7123602	NDR-5b Midway Ridge System	micitic debrite. In alluvial fan.
L842811	582266	7116768	NDR	weakly calcarious, light grey, chert granule conglomerate
L842814	582267	7116776	NDR	yellow weatherin, vossicular, weakly calcarious, chert pebble-granule conglomerate
L842521	583882	7121460	Anubis0	blue-white limestone breccia with earthy black pits. In subcrop.
L842520	584320	7121298	Anubis0	creamy sparry limestone with calcitic microveinlets and pittend limonitic surface. Moderately oxidized. In subcrop.
J980275	586538	7117027	NDR-4	oxidized and clay altered rock, original texture is hard to identify but seems to be clastic, rusty and orange
J980276	586554	7117045	NDR-4	and yellow, porous and weak
J980277	586791	7117304	NDR-4	grey fossiliferous limestone, calcite viens with rusty patches
J980278	586807	7117299	NDR-4	grey limestone with calcite viens and limonite
J980279	586915	7117284	NDR-4	fractured and altered limeston, orange - tan locally porous.
L842820	586951	7118378	NDR	light grey clay altered breccia, clay is sticky to toung
J980280	587138	7117288	NDR-4	rounded, limonite
J980281	587408	7117038	NDR-4	grey limestone breccia, liminitic viens and matrix
J980282	587919	7117248	NDR-4	brecciated siltstone, vuggy porous, weak, rusty, quartz vien
L842501	588139	7118807	NDR-4 Crag North	bulk sample of black-grey viened, shear zone limestone
L842503	588170	7118795	NDR-4 Crag North	grey limestone with 70% tabular white barite crystals. Locally abundant ridgetop subcrop
L842502	588171	7119042	NDR-4 Crag North	orange soil and limonitic pebbles from float, 30m downslope from ridgetop. Pit sample.
L842504	588200	7118800	NDR-4 Crag North	brown, decarbonated fossiliferous limestone, almost pumaceous in texture. Float from slope north of fault
J980283	588331	7117192	NDR-4	along ridge.
J980284	588370	7116864	NDR-4	limonitic barite float in orange float train, immediately adjacent to a thin shale unite a few meters to the north.
L837797	588500	7118700	NDR-4 Crag North	grey fractured limestone with orange liminitic fractures
L837796	588500	7118700	NDR-4 Crag North	orange-light grey clay altered calcarious, calcite viened, vuggy and porous
L837794	588540	7118704	NDR-4 Crag North	tan coloured pitted, clay altered rock in scree slope west of creek.
L837798	588766	7118639	NDR-4 Crag North	bladed, mottled, porous limestone with abundant calcite microveinlets in scree slope west of creek.
L837793	588769	7119154	NDR-4 Crag North	grey to orange, partly clay altered, limestone with calcite microveinlets and a mottled texture. Creek cobble.
L837795	588769	7119159	NDR-4 Crag North	porous, glassy red-brown, conchoidally fractured mineral dominated rock in talus above saddle.
L837792	588791	7119201	NDR-4 Crag North	Pseudotachyite?
L837799	588797	7118757	NDR-4 Crag North	creamy limestone with clear calcite microveinlets and weakly oxidized fractures. Mottled surface texture.
L837800	588797	7118757	NDR-4 Crag North	Creek cobble.
J980260	588946	7118564	NDR-4	pink, strongly calcite microveinleted cobble in creek.
J980259	588992	7118567	NDR-4	limonitic calcite breccia. Creek cobble.
J980258	589142	7118508	NDR-4	partially decarbonated, dark blue-grey fossiliferous limostone.
J980254	589224	7118779	NDR-4	quartz veined limestone, half decarbonated with slickensides.
J980257	589258	7118512	NDR-4	brecciated grey limestone, matrix of liminitic rosty soft orange material
J980255	589262	7118777	NDR-4	grey llimestone with liminitic fractures, calcite viens
J980256	589283	7118751	NDR-4	grey limestone with limonite, calcite viens and vossicular weathering
J980263	590052	7118584	NDR-4	fractured limestone, black, with calcite viens and slick n' slides
J980261	590123	7118316	NDR-4	completely clay altered calcarious rock, porous, soft, tan-white, calcite viens, sticky clay
J980262	590123	7118316	NDR-4	black fractured limestone with many calcite viens and slick n' slides
L842566	590123	7117436	Anubis0?	grey-black, limestone with orange soft rusty material in fractures and in rock mass
K242225	606074	7111108	NDR-2	grey decarbonized limestone
K242226	606074	7111108	NDR-2	rusty and light grey decarbonized limestone, very porous, low density
K242227	606074	7111108	NDR-2	rusty and grey decarbonized fossiliferous limestone, porous, low density
L842585	606080	7111111	NDR-2	grapefruit-pink hematitic limestone breccia. In float. Ryan bets \$1 that this rock contains Au. Nick counters.
L842584	606080	7111111	NDR-2	grey altered dolostone, white and rusty, mineralized with barite and gelena, vossicular, porous, calcarious
L842583	606080	7111111	NDR-2	spots, dense
				grey silicified dolostone with barite viens and bearing cryptic pyrite , pittec
				white and grey barite, with cleavage just off 90 degrees
				Porous, highly vesicular, barite-veined dolostone breccia. Showing A float.
				moderately vesicular, blue dolostone breccia with tan-red clay in and around vesicles. Showing A float.
				:imonitic barite-mineralized dolostone. Showing A float.



L842582	606080	7111111	NDR-2	Buff weathering, grey, medium-grained sparry dolostone with quartz veins and cryptic sulphide. Float at Showing A.
L842586	606316	7111090	NDR-2	Limonitic float near Sidehill Showing.
L842587	606316	7111090	NDR-2	Pocky, limonitic dolostone breccia with rusty pyrite cubes. Float near Sidehil Showing.
L842590	606486	7111139	NDR-2	decarbonated breccia with kaolinite pockets. Weakly oxidized. Sidehill showing float.
L842588	606486	7111139	NDR-2	highly porous, siliceous, drusy rock with orange-red clay patches. Sidehill showing float.
L842589	606486	7111139	NDR-2	Siliceous spong-textured, highly vesicular rock with decarb-seeming patches. Weakly oxidized float.
L842591	606501	7111143	NDR-2	semi-massive white barite with frothy vesicular calcareous patches.
K242228	606568	7111172	NDR-2	grey silicified dolostone, vossicular, barite viens, bearing pulphides, clay altered spots:
K242229	606568	7111172	NDR-2	grey vossicular, pitted, silicified, dolostone, porous and quartz vienes, barite?
K242231	606592	7111204	NDR-2	grey fine grained rock, clay altered, bearing barite and gelena
K242230	606600	7111251	NDR-2	grey silicified dolostone, vossicular, porous locally, clay altered, barite bearing
L842592	607032	7110806	NDR-2	grey sparry ?fossiliferous? Dolostone with minor barite and carbonatious fractures. Float.
K242232	607049	7110802	NDR-2	grey fine grained rock, non calcarious, wuartz and calcite viens, bearing barite, flourite?
L842593	607051	7110783	NDR-2	grey, locally porous, micaceous siltstone with barite and red sphalerite. Outcrop sample.
K242224	608365	7111934	NDR-2	grey limestone with lots of calcite viens, and pyrite associated with viens
G0557632	608719	7113885	Pyramid	Silicified, pitted, variably oxidized dolostone. (Outcrop)
G0557631	608779	7113874	Pyramid	Silicified, pitted, variably oxidized dolostone. (Float)
L842557	608858	7110911	NDR-2	pink and white calcite veined black carbonaceous limestone float.
K242209	608963	7110904	NDR-2	vossicular soil and clay, dark brown
L842556	608986	7110976	NDR-2	grey limestone fault breccia with black carbonaceous patches. Float.
L842555	609042	7110929	NDR-2	grey limestone fault breccia with black carbonaceous patches. Float.
K242210	609050	7110847	NDR-2	dark grey limestone, mineralized, calcite viens, bearing sphalerite and galena, locally vossicular
L842558	609055	7110850	NDR-2	calcite veined , black limestone breccia. Pitted, weakly oxidized. Trench sample.
L842553	609148	7110783	NDR-2	pitted, variably silicified, calcite-veined, galena and sphalerite mineralized trench samples
K242205	609148	7110783	NDR-2	mineralized dolostone, brown sphalerite, galena, calcite-quartz viens, white soft spots
L842552	609148	7110783	NDR-2	pitted, porous, siliceous rock with secondary calcite.
K242207	609148	7110783	NDR-2	brown-grey-beige, pitted and vuggy, porous spots, calcite-quartz viens, galena bearing
K242208	609148	7110783	NDR-2	grey-brown-biege altered dolostone, quartz-calcite, sphalerite and galena.
L842554	609148	7110783	NDR-2	pitted, variably silicified, calcite-veined, galena and sphalerite mineralized trench samples
L842551	609148	7110783	NDR-2	pitted, grey, locally decarbonated limestone. Trench sample
K242206	609148	7110783	NDR-2	grey altered dolostone, pits of vuggy calcite, red shpalerite
L842550	609148	7110783	NDR-2	Grey, silicified carbonate breccia. Minor sphalerite, pervasive dark fractures. From trench.
L842549	609148	7110783	NDR-2	grey, decarbonated (actually) limestone from boulder with Pb-Zn-Ag mineralization. In Clinker trench.
K242204	609156	7110856	NDR-2	dark grey limestone, weakly calcarious, calcite viens, vossicular, bearing galena-sphalerite and other sulphides
L842546	609164	7110854	NDR-2	buff, micritic limestone with calcite veinlets, rare limonite veinlets and abundant bituminous fractures. In platy float.
K242203	609167	7110851	NDR-2	dark grey limestone with calcite viens, subhedral pyrite bearing not in vier
K242202	609174	7110852	NDR-2	grey-blue limestone with black-white calcite viens bearing pyrite
L842547	609183	7110485	NDR-2	black, pitted, strongly silicified fossiliferous debrite. Float form tan shale kill zone.
L842548	609183	7110485	NDR-2	limonitic quartz breccia float. From tan shale kill zone.
L842559	609195	7110714	NDR-2	grey, pumaceous textured surficial weathering over sparry limestone core. Float.
L842545	609210	7110848	NDR-2	altered, silicified dolostone with drusy quartz, oxidized pits and 3% galena, minor sphalerite and secondary calcite. In float below killzone.
K242201	609211	7110846	NDR-2	beige, vossicular, altered dolostone, calcite viens, porous, galena bearing
L842544	609233	7110840	NDR-2	altered, silicified dolostone with 10% disseminated, fine grained galena and sphalerite, combined. Sphalerite is red-brown and mossy green. Contains minor barite. Float sample below kill zone.
L842807	609305	7110764	NDR	beige, locally porous, angular chert pebble conglomerate,
L842560	610025	7110836	NDR-2	quartz and calcite veined, 2% disseminated chalcopryrite bearing blue-grey dolostone breccia with limonitic surface coating. Subcropping boulder.
L842561	610071	7110834	NDR-2	dark grey, weakly sheared, graphitic rock. Float.
L842562	610075	7110840	NDR-2	blue-grey dolostone breccia with heavy sphalerite and trace galena mineralization. Float.
L842564	610079	7110857	NDR-2	brown sphalerite and white calcite space-filling in black, graphitic host rock. Float.
K242211	610082	7110866	NDR-2	dark grey altered dolostone, calcite viens, bearing malichite, gold and silver sulphides , and galena
L842565	610083	7110863	NDR-2	pink-grey semi-massive sphalerite boulder in subcrop or float.
L842563	610084	7110852	NDR-2	pink-grey sphalerite in pink-white calcite matrix. Float.
K242212	610088	7110871	NDR-2	grey dolostone with calcite viens and galena
L842806	611018	7109991	NDR	yellow weathering, weakly calcarious, angular pebble comglomerate
L842572	611192	7109870	NDR-2	bulk pit sample, 0.4m depth over anomalous Au soil sample. Grey shale chips and weakly oxidized soil.
K242218	611234	7110243	NDR-2	dark grey breccia dolostone with calcarious matrix
L842573	611237	7109836	NDR-2	weakly calcareous and limonitic fine grained sandstone, possibly on minor south dipping structure. Float.
L842574	611240	7109882	NDR-2	rusty quartz breccia with grey-white pocky clay patches. Kill zone float.
K242219	611550	7110324	NDR-2	orange sandy dolostone, porous, black matallic blebs
L842580	611624	7110352	NDR-2	strongly limonitic grey siltstone float.
L842581	611624	7110352	NDR-2	open folded, buff coloured limestone with bituminous fractures. Float.
L842813	611668	7110279	NDR	light grey, highly vossicular, weakly calcarious
L842579	611687	7110509	NDR-2	light grey, vesicular, highly porous, weakly calcareous float.



L842578	611757	7110331	NDR-2	pitted, rusty weathering dolostone fault breccia. In situ.
K242220	611834	7110309	NDR-2	grey dolostone breccia with weakly calcarious matrix
I357912	611896	7109844		
K242221	611902	7110495	NDR-2	limonitic cobbles to boulders, dark orange and purple, rusty, porous and weakly calcarious
I357913	611907	7109935	Sian	Quartz pebble conglomerate with rusty dolomite (?) rich clasts.
L842522	612007	7110348	NDR-2	yellow-brown soil from trench, 1m depth.
L842523	612007	7110348	NDR-2	yellow-brown soil from trench, 1.7m depth.
L842524	612007	7110348	NDR-2	bulk colluvial and subcrop sample from pit at about 0.4m depth. Brecciated dolostone and brown soil.
L842526	612007	7110348	NDR-2	brecciated dolostone subcrop with drusy quartz
L842525	612007	7110348	NDR-2	brecciated dolostone subcrop
J980286	612009	7110347	NDR-2	white and grey zebra dolostone with spot of limonite
J980289	612009	7110347	NDR-2	light green siltstone with limonitic spots and grey porous patches
J980287	612009	7110347	NDR-2	tan soil with dolostone rock fragments
J980285	612009	7110347	NDR-2	tan sandy dolostone, porous, weak, weakly reactive
J980288	612009	7110347	NDR-2	grey and white zebra dolostone
L842816	612024	7110474	NDR	orange, quartz vined, vesicular, limonite
G0557645	612026	7110440	Sian	Grey clay dug out of a pit in a possible kill zone.
K242222	612042	7110606	NDR-2	grey soft altered rock, porous, weakly calcarious, black vienlets and quartz viens
K242223	612042	7110606	NDR-2	grey vesicular decarbonated limestone, weakly calcarious, porous
G0557636	612099	7110401	Sian	Dark grey crystalline dolostone. White-orange dolospar veining and thin calcite filled fractures.
J980294	612101	7110262	NDR-2	dolostone breccia with calcarious orange matrix
L842537	612103	7110436	NDR-2	pitted limonite in float.
G0557637	612110	7110461	Sian	Orange limonite in dolostone float train.
G0557639	612110	7110500	Sian	Quartz sst debrite (boulder). Variably oxidized, possible scorodite.
J980290	612111	7110463	NDR-2	tan -black altered zebra dolostone, porous and vuggy
G0557638	612115	7110469	Sian	Oxidized dolostone displaying relict zebra textures.
L842529	612120	7110429	NDR-2	zebra dolostone with black, carbonatious pocket. In float.
L842528	612137	7110432	NDR-2	orange, strongly oxidized and pitted calcite vined rock in float.
J980298	612140	7110396	NDR-2	bulk sample of rock at bottom 2 feet of pit, tan-light green, dolostone
L842543	612140	7110396	NDR-2	orange, red, grey banded, semi-cohesive sandy layer in pit at 1m depth
J980297	612140	7110396	NDR-2	black-grey-tan, sugary altered porous dolostone
J980299	612140	7110396	NDR-2	soil and rock from bottom of pit, tan-grey zebra dolostone, weak and altered
J980296	612140	7110396	NDR-2	barite and quartz with some porous material
L842577	612141	7109730	NDR-2	brown weathering, calcite brecciated limestone float.
I357903	612144	7110393	Sian	limonitic boulder just west of sample I357902
L842527	612145	7110419	NDR-2	mottled textured, grey-red-black, partially decarbonated dolostone with minor oxidation. In float.
J980295	612161	7110411	NDR-2	vuggy, porous, sandy material within quartz vien, dense
L842542	612163	7110407	NDR-2	black and orange banded, decarbonated bedrock dolostone. In situ.
I357902	612163	7110398	Sian	limonitic boulder within dolostone scree
L842540	612163	7110407	NDR-2	pocky, grey, sandy, decarbonated rock, 15cm depth in pit.
L842541	612163	7110407	NDR-2	black and orange banded, decarbonated bedrock dolostone breccia? In situ.
L842575	612171	7109727	NDR-2	black, porous limonite-pitted weakly calcareous sandstone. From pit over soil sample with highest Au on Sian, 0.4m depth.
L842576	612171	7109727	NDR-2	bulk pit sample, grey clay and black, porous sandstone.
L842536	612188	7110460	NDR-2	pitted limonite breccia in float.
L842530	612191	7110427	NDR-2	yellow-grey, partially decarbonated dolostone in float with a mottled texture.
L842531	612213	7110432	NDR-2	grey, partially decarbonated dolostone breccia in a barite matrix.
L842532	612213	7110432	NDR-2	crumbly, black and yellow decarbonated dolostone breccia. Float.
L842538	612213	7110421	NDR-2	pit sample, 0.7m depth; porous, mottled yellow-grey weathered bedrock, dolostone breccia?
L842539	612213	7110421	NDR-2	bulk pit sample, 0.7m depth; mottled yellow-grey weathered bedrock, dolostone breccia?
J980292	612214	7110433	NDR-2	white-grey-black, dolomite breccia with rusty spots and very porous
I357904	612214	7110433	Sian	brecciated limonitic material cemented with quartz carbonate material.
L842535	612237	7110489	NDR-2	yellow, highly porous, crumbly, weakly calcareous float with slickensides. Float.
J980293	612238	7110429	NDR-2	tan, sandy, weakly calcarious dolomitized, weak, and porous, black and quartz viens
J980291	612238	7110429	NDR-2	altered, tan dolostone porous, quartz viens, some vugs and pocky weathering
G0557640	612247	7110481	Sian	Limonitic fault breccia found in float
L842809	612250	7110152	NDR	grey, silicified, some limonitic fractures
I357905	612289	7110464	Sian	limonitic layer within small fold hinge developed in siltstones
I357906	612311	7110255	Sian	brecciated limonitic material cemented with quartz.
L842534	612312	7110459	NDR-2	heavily pitted, mottled textured, quartz with weathered out breccia fragments
L842533	612320	7110438	NDR-2	partially decarbonated, slickenside-bearing calcareous sandstone in float.
G0557641	612440	7110338	Sian	Grey crystalline limestone with Ca veins (possibly PCH2)(float)
G0557642	612441	7110351	Sian	Grey crystalline limestone in float. Contains oxidized fragments.
I357907	612483	7110269	Sian	limonitic material associated with quartz veining in shales interbedded with l.s.
I357908	612596	7110325	Sian	Limonitic material associated with quartz veining in deformed siltstones.
G0557643	612613	7110574	Sian	Grey siltstone with sinuous to podzoidal carbonaceous interbeds. Contains what appears to be scorodite on fracture face.
K242217	612636	7110316	NDR-2	grey dolostone, quartz and calcite viens, rusty weathering and inside, pyrite bearing
L842571	612661	7110160	NDR-2	pitted, blue-grey limestone debrite with limonitic veinlets. Outcrop
I357911	612781	7109982	Sian	calcareous sandstones with limonitic veins.
I357910	612872	7109933	Sian	intensely veined drk grey sandstone with sulphide rich sections?
I357909	612892	7109927	Sian	sphalerite in fine grained brecciated sandstone.



L842570	612911	7110531	NDR-2	heavily limonitic quartz veined dolostone subcrop. Minor black sphalerite?
G0557644	613120	7110596	Sian	Hematite banded with highly deformed altered dolostone.
L842810	613150	7110579	NDR	yellow-brown, vesicular, limonite
K242214	613184	7110729	NDR-2	white-grey, soft, dense, barite, locally pitted
K242213	613190	7110764	NDR-2	orange brecciated, sandy dolostone, matrix is brown-black and weakly calcareous
L842819	613190	7110478	NDR	yellow-brown limonitic, weakly calcareous, highly fractured rock
K242215	613197	7110725	NDR-2	limonitic material in veins of sandy dolostone, only the limonitic material sample
K242216	613250	7110650	NDR-2	purple-rusty, pocky, vesicular, limonitic, weakly calcareous
L842569	613264	7110653	NDR-2	Ankerite-matrix dolostone breccia. Abundant subcrop.
L842567	613283	7110648	NDR-2	dolostone with limonitic surfaces. Outcrop, 30m upslope from anomalous soil with high As.
L842568	613283	7110648	NDR-2	Fossiliferous dolostone with gnarly surficial weathering. Float.
L842821	614957	7114100	NDR	iron-calcite precipitate
L842612	617286	7114991	Dale North	Graphitic chert with yellowish, green staining.
L842753	617906	7113329	Anubis	buff micritic limestone with abundant dark fractures and calcite veinlets. Minor orange clay alteration. Float.
L842751	617917	7113326	Anubis	buff micritic limestone with abundant fractures and some black resinous fracture filling. Minor calcite veinlets. Float.
L842752	617917	7113326	Anubis	buff micritic limestone with abundant dark fractures and calcite veinlets. Float.
L843780	617943	7113450	Anubis	yellow, creamy, clay altered, pitted, highly fractured limestone float.
L843781	617943	7113450	Anubis	slightly oxidized micritic limestone with cross-hatched calcite veinlets. Float.
L842770	617955	7113225	Anubis	red-oxidizing fine grained to granule sized debris with up to 3cm calcite euhedra. In subcrop proximal to massive calcite vein subcrop.
L842825	617995	7113412	Anubis	rusty-orange, pitted limonite
L842667	618002	7113473	Anubis	from pit: brown and grey soil + rock frags
L842668	618002	7113473	Anubis	from pit: orange-beige altered limestone, calcite, porous, soft, vesicular
L842666	618008	7113414	Anubis	grey limestone altered to soft-orange-porous material partially, calcite veined
L842665	618008	7113414	Anubis	grey limestone with black veins, and small slick n' slides
L842823	618011	7113320	Anubis	grey limestone with black fractures and calcite veins bearing cryptic realgar
L842824	618011	7113320	Anubis	dark grey limestone with black fractures and thin calcite veins bearing realgar flakes
L842769	618013	7113314	Anubis	grey micritic limestone with dense dark microveinlets, orange oxidizing black stylolites and cryptic realgar in calcite veinlets. Float.
L842768	618013	7113314	Anubis	grey micritic limestone with dense dark microveinlets 60' to 0.4cm wide realgar-bearing calcite veinlets. Float.
L843782	618014	7113310	Anubis	pit 15. 0-0.4m. Brown soil and gravely limestone rubble.
L843784	618014	7113310	Anubis	pit 15. 0.8-1.2m. Brown soil and gravely limestone rubble.
L843783	618014	7113310	Anubis	pit 15. 0.4-0.8m. Brown soil and gravely limestone rubble.
L843785	618014	7113310	Anubis	pit 15 rock. grey micritic limestone with minor scorodite on fracture surfaces.
L842664	618016	7113411	Anubis	altered limestone, rusty vesicular, calcite blebs
L842771	618034	7113436	Anubis	creamy kaolinite? Altered, highly fractured rock with calcite microveinlets. Absorbs acid after subduced reaction. Float.
L843595	618049	7113224	Dale	Tan weather limestone breccia dug from anomalous soil pit.
L843777	618050	7113225	Anubis	pit 14. 0-0.2m. Grey-brown mixed clay and organic soil.
L843778	618050	7113225	Anubis	pit 14. 0.2-0.4m. Buff coloured gritty calcareous sand.
L843779	618050	7113225	Anubis	pit 14. 0.4-0.8m. Blue-grey sparry limestone, 2-hole crinoid wackestone subcrop.
L842754	618065	7113137	Anubis	brown sparry wackestone with large calcite veins. Float.
L843770	618075	7113217	Anubis	pit 13. 0-0.1m. Grey-brown clay rich organic soil. Calcareous.
L843776	618075	7113217	Anubis	pit 13 rock. Highly fractured grey micritic limestone with calcite veins and minor rusty fractures
L843772	618075	7113217	Anubis	pit 13. 0.5-0.7m. Grey-brown pebbly limestone soil.
L843771	618075	7113217	Anubis	pit 13. 0.1-0.5m. Buff coloured, gritty silty calcareous soil with some oxidized patches.
L843775	618075	7113217	Anubis	pit 13 rock. Highly fractured grey-black micritic limestone.
L843773	618075	7113217	Anubis	pit 13. 0.7-1.0m. Blue, brown weathering micritic limestone subcrop.
L843774	618075	7113217	Anubis	pit 13 rock. yellow, clay altered limestone. Slickensides and minor calcite veinlets.
L842822	618093	7113267	Anubis	grey limestone with black fractures, rusty orange fractures
L842669	618141	7113393	Anubis	grey breccia limestone, clay altered matrix, calcite blebs
L842772	618142	7113410	Anubis	frothy-textured, vesicular aggregate of acicular calcite in highly altered limestone. Brown to green weathering. Float.
L842755	618276	7113258	Anubis	moderately oxidized, highly fractured micritic limestone float.
L842684	618328	7113210	Anubis	grey limestone with black veinlets, calcite veins with a couple flakes of realgar
I357922	618346	7113125	Anubis	Red-orange soil from gopher hole.
I357921	618347	7113211	Anubis	Yellow-red mineralization (?) on fracture surfaces in brecciated, silicified limestone.
L842757	618355	7113186	Anubis	calcite veined, highly fractured micritic limestone with trace scorodite and cryptic red mineral in calcite veins. Subcrop.
L842756	618356	7113212	Anubis	highly altered limestone. Orange, pumaceous in texture. Float.
L842743	618358	7113196	Anubis	grey micritic limestone with realgar-bearing calcite veins, dense dark fractures and yellow clay alteration. Float.
L842683	618360	7113193	Anubis	grey-beige limestone, calcite veins and black veinlets, lime green, vesicular porous material
L842681	618360	7113193	Anubis	grey-beige limestone with fractures filled with rusty orange material and black veinlets, calcite veins bearing realgar
L842682	618360	7113193	Anubis	grey-beige limestone with fractures filled with rusty orange material and black veinlets, calcite veins bearing realgar
L843569	618368	7113280	Anubis	Goethitic limonite, minor hematite, abundant in float.
I357920	618370	7113283	Anubis	Goethite and jarosite mineralization on fractures in brecciated, silicified limestone.
L842773	618371	7113287	Anubis	pyritic, pale green limestone float.
L843766	618371	7113277	Anubis	highly fractured micritic limestone from orange dirt kill zone.



L843769	618371	7113277	Anubis	highly fractured micritic limestone from orange dirt kill zone.
L843767	618371	7113277	Anubis	highly fractured micritic limestone from orange dirt kill zone.
L843768	618371	7113277	Anubis	highly fractured micritic limestone from orange dirt kill zone.
L842970	618375	7113135	Anubis	drusy, calcitic limestone breccia. Float.
L842741	618375	7113140	Anubis	grey micritic limestone with stockwork dark fractures and cryptic rusty pyrite cubes. From red soil kill zone float.
L842740	618381	7113112	Anubis	calcareous debrite float with secondary calcite phenocrysts. Weakly oxidized surfaces. Near red clay showing.
L842742	618383	7113174	Anubis	yellow weathering clay altered calcareous rock with abundant calcite veinlets. Float.
I357923	618384	7113117	Anubis	yellow-red mineralization (?) in fault breccia within limestone.
I357924	618384	7113117	Anubis	yellow-red mineralization (?) in fault breccia within limestone.
L842680	618389	7113164	Anubis	altered limestone, liminitic rusty red material, pocky
L842939	618404	7113055	Anubis	goethite chips in float. In small gully.
L843589	618429	7113322	Dale	Limonitic limestone breccia taken from A-B horizon interface from 300ppb soil sample pit. Fragments of brecciated limestone taken from B horizon. Orange in color, variably limonitic. Minor hyland sst fragments.
L843568	618431	7113325	Anubis	Fragments of brecciated, calcite veined carbonate fragments taken from Ah horizon in soil pit.
L843567	618431	7113325	Anubis	debrite limestone with dark and light bands , calcite blebs, dark soft clasts, bearing realgar
L842676	618445	7112978	Anubis	debrite limestone with dark and light bands , calcite blebs, dark soft clasts, bearing realgar
L842677	618445	7112978	Anubis	debrite limestone with dark and light bands , calcite blebs, dark soft clasts, bearing realgar
L842678	618445	7112978	Anubis	debrite limestone with dark and light bands , calcite blebs, dark soft clasts, bearing realgar
L842736	618447	7112971	Anubis	realgar-bearing grey calcareous turbidite with carbonaceous chips. Float.
L842663	618452	7113044	Anubis	altered grey fossiliferous limestone, rusty and red blebs
L842734	618453	7112971	Anubis	realgar-bearing grey calcareous turbidite with carbonaceous chips. Float.
I357925	618456	7113069	Anubis	Goethite and jarosite mineralization on fractures in brecciated, silicified limestone.
L842662	618458	7113073	Anubis	completely altered fossiliferous limestone, no HCL reaction, rusty, vesticular, black sphalerite, dense
L842735	618460	7112981	Anubis	realgar-bearing grey calcareous turbidite with carbonaceous chips. Float.
I357919	618474	7113234	Anubis	Yellow-red mineralization (?) on fracture surfaces in brecciated, silicified limestone.
L842961	618475	7113227	Anubis	creamy limestone breccia, weakly oxidized. Float.
L843564	618484	7113049	Anubis	Goethitic limonite in float.
L843585	618487	7113113	Dale	Limonitic material in float.
L843614	618497	7113237	Anubis	light grey rocks + soil
L843613	618497	7113237	Anubis	dark grey rocks + soil
L843615	618497	7113237	Anubis	locally calcarious, oxidized breccia, rusty and orange, porous, vesticular
L843612	618497	7113237	Anubis	brown and red soil + rocks
L843611	618497	7113237	Anubis	brown rocks frags + soil
L843618	618497	7113237	Anubis	beige and grey brecciated limestone, soft, locally brown vesticular porous material
L843620	618497	7113237	Anubis	white brecciated limestone, clay altered, soft, dark grey matrix viens
L843609	618497	7113237	Anubis	dark brown soil + rock
L843619	618497	7113237	Anubis	beige-tan, brecciated limestone, soft, dark matrix
L843610	618497	7113237	Anubis	light brown-beige soil+ rocks
L843616	618497	7113237	Anubis	black and grey brecciated limestone, clasts are grey, calcite viens sheeted
L843617	618497	7113237	Anubis	grey brecciated limestone, with rusty oxidized pits(0.5mm)
L843546	618498	7113044	Pharaoh	highly oxidized, rusty, pocky
L842990	618500	7113229	Anubis	rusty orange-yellow-black shale breccia from base of pit. pit 10m upslope of soil sample ZZ59544 1.6-2.0m depth. Colluvial brecciated creamy limestone within grey clay rich layer. Only the grey clay was sampled.
L842987	618500	7113229	Anubis	pit 10m upslope of soil sample ZZ59544 2.2-2.3m depth. Black shale chips at base of pit.
L842989	618500	7113229	Anubis	pit 10m upslope of soil sample ZZ59544 2.0-2.2m depth. Sandy soil with redish oxidized patches
L842988	618500	7113229	Anubis	pit 10m upslope of soil sample ZZ59544 0.3-0.7m depth. Grey calcareous soil.
L842984	618500	7113229	Anubis	pit 10m upslope of soil sample ZZ59544 0-0.3m depth. Colluvial brecciated creamy limestone
L842983	618500	7113229	Anubis	pit 10m upslope of soil sample ZZ59544 0.7-1.0m depth. Colluvial brecciated creamy limestone boulders within black organic rich soil. Only the soil was sampled herein.
L842985	618500	7113229	Anubis	pit 10m upslope of soil sample ZZ59544 1.0-1.6m depth. Colluvial brecciated creamy limestone within sandy soil. Only the soil was sampled.
L842986	618500	7113229	Anubis	creamy brecciated limestone with orange fractures. Pit float.
L842992	618500	7113229	Anubis	creamy brecciated limestone with strongly disseminated brown fine grained oxide along fracture surfaces. Pit float.
L842991	618500	7113229	Anubis	pit float.
L842774	618502	7113219	Anubis	pitted, creamy yellow clay altered, calcite veined limestone float.
I357918	618503	7113234	Anubis	red oxidation, hematite like, on brecciated, silicified limestone.
L842758	618503	7113215	Anubis	moderately oxidized and clay altered limestone breccia. Float.
L843621	618506	7113218	Anubis	grey, finegrained, weakly calcarious, fractured limestone
L843623	618506	7113218	Anubis	grey clay, with small grey rock fragments
L843622	618506	7113218	Anubis	tan-beige-black brecciated limestone, 1-3mm clasts are tan-beige, calcite viens, locally vesticular
L843624	618506	7113218	Anubis	light-dark grey brecciated micrite LS, with calcite viens bearing realgar
L843639	618509	7113220	Anubis	beige clay and brecciated micritic limestone. Possibly subcrop with a 1-5cm layer of ice between most of the gouge and the limestone. 2.0-2.5m.
L843636	618509	7113220	Anubis	grey clay. 1.6-1.7m.
L843638	618509	7113220	Anubis	grey gouge clay with pebbly chert fragments. 1.8-2.0m.
L843637	618509	7113220	Anubis	orange clay. 1.7-1.8m.
L843632	618509	7113220	Anubis	gravel from base of colluvial boulder train in pit. 0-0.4m.
L843635	618509	7113220	Anubis	beige clay. 1.5-1.6m.
L843633	618509	7113220	Anubis	sandy and organic soil and colluvium. 0.4-1.0m.



L842964	618509	7113215	Anubis	creamy calcite veined, porous, limestone breccia. Float.
L843634	618509	7113220	Anubis	sandy and organic soil and colluvium. 1-1.5m.
L842963	618509	7113215	Anubis	creamy calcite veined, porous, limestone breccia. Float.
L843587	618509	7113213	Dale	Large boulder of brecciated limonitic carbonate in float.
L843588	618509	7113213	Dale	Tan colored brecciated limestone taken from outcrop.
L843765	618511	7113207	Anubis	orange limonitic float.
L842679	618520	7112999	Anubis	debrite limestone with dark and light bands , calcite blebs, dark soft clasts, bearing realgai
L842750	618529	7112988	Anubis	realgar-bearing blue micritic limestone in contact with turbidite. Float
L842739	618532	7112995	Anubis	realgar-bearing grey calcareous turbidite with carbonaceous chips. Float.
L842962	618535	7113213	Anubis	creamy calcite veined, powdery, porous, limestone breccia. Float.
L843547	618546	7113088	Pharaoh	brecciated, highly oxidized rusty laminitic, pocky, from 45cm diameter rock that was burried
L843574	618566	7113208	Anubis	Limonite in float.
L842660	618570	7113162	Anubis	altered, limonitic limestone, rusty, viened
L842661	618570	7113162	Anubis	clay altered limestone, calcite veined, differential weathering
L843654	618577	7113176	Anubis	light grey fine gravel 1.0 - 1.5
L843655	618577	7113176	Anubis	light grey sand 1.5-2.0
L843651	618577	7113176	Anubis	brown clay/sand with rocks 0-0.3
L843653	618577	7113176	Anubis	light grey sand and coarse gravel 0.6-1.0
L843656	618577	7113176	Anubis	light brown sand and grfine gravel 2.0 - 2.3
L843652	618577	7113176	Anubis	grey clay/sand 0.3-0.6
L843657	618577	7113176	Anubis	Yellow brecciated limestone with black fractures 2.3
L843626	618586	7113189	Anubis	brecciated limestone subcrop with brown sandy clay soil and minor gravel along open joints. .03-0.6m.
L843625	618586	7113189	Anubis	brecciated limestone subcrop with brown sandy clay soil and minor gravel along open joints. 0-0.3m.
L843627	618586	7113189	Anubis	brecciated limestone subcrop with brown sandy clay soil and minor gravel along open joints. .0.6-0.9m.
L843628	618586	7113189	Anubis	brecciated limestone subcrop with brown sandy clay soil and minor gravel along open joints. 0.9-1.2m.
L843629	618586	7113189	Anubis	brecciated limestone subcrop with brown sandy clay soil and minor gravel along open joints. 1.2-1.5m.
L843631	618586	7113189	Anubis	semi-insitue limestone from 1m depth in pit. Calcite veined and moderately oxidized limestone breccia.
L843630	618586	7113189	Anubis	brecciated limestone subcrop with brown sandy clay soil and minor gravel along open joints. 1.5-2.0m.
L842749	618591	7113007	Anubis	calcite vein material with heavily limonitic fractures. Float.
L842738	618593	7113024	Anubis	red-orange, vesicular limonite cobble. In float.
I357926	618593	7112986	Anubis	Goethite vein fill in brecciated limestone unit. pit over soil sample ZZ61010. 1-1.3m depth. Colluvial brecciated limestone cobbles amongst grey-brown clay. Sampled the clay.
L842994	618594	7113203	Anubis	pit over soil sample ZZ61010. 1.3-1.7m depth. Light brown sandy clay.
L842995	618594	7113203	Anubis	pit over soil sample ZZ61010. 1.7-2.0m depth. Brown sandy soil.
L842996	618594	7113203	Anubis	pit over soil sample ZZ61010. 2.0-2.3m depth. Gravely-sandy brown soil layer.
L842997	618594	7113203	Anubis	pit over soil sample ZZ61010. 0-1m depth. Colluvial brecciated limestone boulders, cobbles and gravel. Sampled gravel at base of layer.
L842993	618594	7113203	Anubis	pit over soil sample ZZ61010. 2.3-3.0m depth. Darker brown soil and limestone gravel. Note that all layers contain angular colluvial limestone cobbles and boulders.
L842998	618594	7113203	Anubis	White, clay altered limestone breccia dug from pit.
L843880	618596	7113210	Dale	limonite and goethite chips in float.
L842737	618600	7113016	Anubis	limonitic, calcareous brecciated float.
L842969	618603	7113209	Anubis	creamy brecciated limestone float.
L842968	618625	7113175	Anubis	grey limestone with porous-beige and rusty spots, clay alteration?
L842659	618634	7113136	Anubis	yellow-grey calcareous clay altered rock with abundant clear veinlets. Float.
L842744	618647	7113195	Anubis	lithological contact of grey-blue limestone and carbonaceous-calcarious debrite, bearing realgar, calcite viened
L842685	618650	7112963	Anubis	
L842746	618660	7112962	Anubis	black earthy, carbonaceous and calcareous rock. In situe near outcropping turbidites and calcite veins.
L842745	618660	7112962	Anubis	brown-black carbonaceous turbidite with coarse secondary calcite crystals up to 3cm across. Trace realgar flecks in calcite. Adjacent to large calcite veins. Subcrop.
L842733	618662	7112970	Anubis	pink-red clay layer with some limonitic pebbles. realgar-bearing grey calcareous turbidite with carbonaceous chips. In-situe. Lineations on outcrop may be slickensides.
L842747	618667	7112963	Anubis	black sooty fine grained carbonaceous and calcareous subcrop.
L842748	618667	7112963	Anubis	altered limestone, orange soft porous alteration, calcite viens
L842675	618670	7113226	Anubis	pit sample of brown dirt and subangular colluvial cobbles and boulders. On steep SW-facing slope with lots of buckbrush.
L842764	618679	7113694	Anubis	sparry wackestone with trace oxidized pitting. Colluvium.
L842765	618679	7113694	Anubis	Goethite vein fill in brecciated limestone unit.
I357927	618692	7112963	Anubis	pit sample over 0.014ppm Au in soil. Cc148580. black shale chips with rare limestone cobbles. 10m west of creek.
L842732	618705	7112891	Anubis	heavily oxidized calcareous breccia with minor barite. Float.
L843764	618723	7113104	Anubis	light brown calcareous debrite, fining upwards. Some brown oxidized granules. Near massive calcite veining. Float.
L842766	618735	7113644	Anubis	Float.
L842767	618735	7113644	Anubis	brown, oxidized, calcite-matrix limestone breccia. Float.



L842658	618767	7113729	Anubis	grey fossiliferous limestone, calcite viens with hard black layer or alteration
L842967	618768	7113085	Anubis	gritty, calcareous limonite float.
L842698	618773	7113497	Anubis	brown soil and rock fragments
L842699	618773	7113497	Anubis	fine grained black limestone with rusty spots and clusters of fine grained pyrite
L842700	618773	7113497	Anubis	black fractured limestone with calcite viens
L842657	618786	7113767	Anubis	black limestone, calcite viens, possibly carbonaceous
L842656	618819	7113402	Anubis	from pit: brown and grey collivium soil + rock fragments
L842655	618819	7113402	Anubis	from pit: dark grey limestone with calcite viens, bearing pyrite
L843563	618830	7113062	Anubis	Limonitic, calcite veined carbonate.
L843562	618834	7113052	Anubis	Calcite veined, limonitic crystalline carbonate.
L843565	618839	7113032	Anubis	Oxidized vein material in association with calcite. Taken from outcrop.
L843566	618839	7113032	Anubis	Brecciated, calcite veined carbonate taken from outcrop.
L842943	618842	7113046	Anubis	recrystallized carbonaceous debrite with calcite megacrysts. Similar to realgar-bearing unit on ellendale ridge. Float.
L842944	618842	7113046	Anubis	recrystallized carbonaceous debrite with calcite megacrysts. Similar to realgar-bearing unit on ellendale ridge. Float.
L843561	618843	7113046	Anubis	Assorted rock fragments dug out of soil pit running ~0.5 g/t Au.
L843763	618843	7113033	Anubis	grey-black stylolitic, carbonaceous limestone float.
L842942	618853	7113044	Anubis	fossiliferous rudstone with rare stylolites. Float.
L842941	618853	7113044	Anubis	locally brecciated, weakly stylolitic, blue-grey limestone float.
L842966	618854	7113026	Anubis	yellow-weathering limestone breccia. Float.
L842940	618857	7113021	Anubis	yellow-orange weathering, blue limestone fault breccia. Float.
L842945	618867	7112992	Anubis	dull brown weathering, limonitic fault breccia. Weakly calcareous. Creek float.
I357928	618867	7112964	Anubis	altered, yellowish, non-calcareous fault breccia.
L842946	618867	7112992	Anubis	moderately oxidized grey siltstone breccia. Creek float.
L842947	618868	7112986	Anubis	yellow, heavily altered, calcareous rock with intense calcite microveinlets. Creek float.
L843762	618877	7112979	Anubis	dark fractured, blue micrite with barite veins. Float.
L843590	618895	7112966	Dale	Highly oxidized carbonaceous siltstone. Taken from large boulder in float train in gully
L843761	618899	7112963	Anubis	very porous, weakly calcareous, black, green-yellow oxidizing siltstone with slickensides. Float.
L843759	618899	7112963	Anubis	intensely calcite veined limestone microbreccia. Float.
L843760	618899	7112963	Anubis	intensely fractured, calcite veined, buff silty limestone float.
L843878	618911	7112957	Dale	Reddish brown oxide in soil? Or subcrop.
L843879	618911	7112957	Dale	Light orange oxide in soil? Or subcrop.
L843877	618911	7112957	Dale	Grey barite dug from anomalous soil pit.
L842759	618913	7113550	Anubis	brown sparry wackestone with galena in calcite fractures. Minor kill zone float.
L842697	618926	7113553	Anubis	grey limestone with calcite viens bearing galena
L842801	618929	7113559	Anubis	beige altered fossiliferous limestone, porous patches which turn yellow when HCL dropped, bearing galens
L842654	618947	7113555	Anubis	grey fossiliferous limestone which clasts of dark grey limestone, calcite viens, clay alteration, rusty pyrite
L842802	618951	7113561	Anubis	grey limestone, with rusty vespicular patches calcite viens which host galens, and galena in rock mass also
G0557647	618954	7112671	Anubis	Carbonaceous soil with silt stone frags from pit dug in trace of structure.
G0557646	618954	7112671	Anubis	Carbonaceous soil with silt stone frags from pit dug in trace of structure.
L842731	618956	7112936	Anubis	rusty weathering black sooty incompetent layer in black shale unit. In situ.
I357917	618964	7113402	Anubis	Goethite altered siltstone?
L842960	618965	7113550	Anubis	sparry wackestone with 0.350 galena veins and slickensides. Subcrop.
L842762	618970	7113628	Anubis	black calcareous soil immediately above bedrock.
L842761	618970	7113628	Anubis	pit sample of till, 1m depth.
L842763	618970	7113628	Anubis	limonite pitted sparry fossiliferous wackestone in situ at base of pit.
L843728	618972	7113548	Anubis	high-graded calcite-galena veins from subcropping mineralized wackestones. Veins up to 0.3cm thick.
L843744	618984	7113454	Anubis	pit 11 rock. Heavily pitted, weakly calcareous, porous cobble with minor orange and yellow oxidized pits.
L843740	618984	7113454	Anubis	pit 11. 1.7-2m. Brown-grey gritty calcareous sand.
L843736	618984	7113454	Anubis	pit 11. 0-0.5m. Brown organic rich soil.
L843738	618984	7113454	Anubis	pit 11. 1-1.5m. White calcareous soil amongst blocky fossiliferous debritic limestone pebbles and boulders.
L843742	618984	7113454	Anubis	pit 11 rock. Rounded granule-pebble shale clast conglomerate with coarsely recrystallized calcite matrix.
L843741	618984	7113454	Anubis	pit 11. 2-2.3m by auger. Brown-grey gritty calcareous sand.
L843737	618984	7113454	Anubis	pit 11. 0.5-1m. Brown soil with limestone boulders.
L843743	618984	7113454	Anubis	pit 11 rock. subangular granule-pebble shale clast conglomerate with coarsely recrystallized calcite matrix.
L843745	618984	7113454	Anubis	pit 11 rock. Carbonaceous, fossiliferous packstone with oxidized calcite veinlets.
L843739	618984	7113454	Anubis	pit 11. 1.5-1.7m. Orange, oxidized, gritty calcareous sand.
L843591	618985	7112916	Dale	Tan weathering brecciated limestone upslope from 100 ppb soil.
L843868	618996	7112904	Dale	Tan limestone breccia from large boulder.
L843749	619000	7113470	Anubis	pit 10 rock. Heavily pitted, weakly oxidized fine clast shale breccia.
L843731	619000	7113470	Anubis	pit 10. 0.6-1m. Gritty calcareous silty, banded, black, grey and orange soil.
L843747	619000	7113470	Anubis	pit 10 rock. Heavily pitted, botryoidal textured, resinous black, orange, yellow mineralized rock. Sphalerite?
L843746	619000	7113470	Anubis	pit 10 rock. Grey, weakly clay altered and crumbly, pale-green-white calcite veined, carbonaceous debritic packstone. Smells strongly of urine...



L843730	619000	7113470	Anubis	pit 10. 0.3-0.6m. Black shaley soil with ~1% red fine grained fragments.
L843748	619000	7113470	Anubis	pit 10 rock. Heavily pitted, botryoidal textured, resinous black, orange, yellow mineralized rock. Sphalerite?
L843732	619000	7113470	Anubis	pit 10. 1-1.5m. Grey gritty calcareous silt amongst blocky, fossiliferous, debritic limestone boulders.
L843733	619000	7113470	Anubis	pit 10. 1.5-1.8m. Gritty pink-grey calcareous silty soil.
L843876	619000	7112910	Anubis	Carbonaceous shale in float with yellow staining.
L843874	619000	7112910	Anubis	Highly fissile, low competency carbonaceous shale with an oxide band.
L843875	619000	7112910	Dale	Carbonaceous shale dug from pit (subrcop)
L843729	619000	7113470	Anubis	pit 10. 0-0.3m. Brown coarse sandy soil.
L843734	619000	7113470	Anubis	pit 10. 1.8-2.5m. Gritty pink-grey calcareous silty soil.
L843735	619000	7113470	Anubis	pit 10. 2.5-2.8m by auger. Gritty pink-grey calcareous silty soil.
L843873	619000	7112910	Anubis	Silicified micrite with oxidative weathering habit. Dug from soil pit running 1.5 g/l
L843750	619000	7113470	Anubis	pit 10 rock. Heavily oxidized, orange, weakly calcareous siltstone.
L843660	619013	7113487	Anubis	black fine shale with oxidized pits of red/yellow 0.6-1.2
L843658	619013	7113487	Anubis	Dark brown soil with organic material 0-0.3
L843659	619013	7113487	Anubis	grey/black sandy gravel with large shale pieces 0.3-0.6
L843661	619013	7113487	Anubis	Light brown very stiff clay with high amounts of oxidation red/yellow/orange 1.2-1.8
L843662	619013	7113487	Anubis	Light brown stiff clay with small rocks 1.8-2.0
L843757	619013	7112866	Anubis	grey limestone with sheeted calcite veinlets and dense carbonaceous fractures. Float.
L843665	619013	7113487	Anubis	highly oxidized siltstone orange
L843664	619013	7113487	Anubis	Lime stone with calcite veinlettes
L843663	619013	7113487	Anubis	limestone with purple/ orange oxidation
L843666	619013	7113487	Anubis	limestone with multiple calcite veinlettes
L843758	619013	7112866	Anubis	rusty weathering massive barite float.
L843872	619014	7112915	Anubis	Darker (more carbonaceous ?) silicified decarbonitized limestone breccia from showing.
L843870	619014	7112915	Anubis	Grey decarbonitized limestone. Strongly silicified with quartz veinlets resulting in brecciation
L843869	619014	7112915	Anubis	Grey decarbonitized limestone. Strongly silicified with quartz veinlets resulting in brecciation
L843871	619014	7112915	Anubis	Powdery, sandy, quartzose material from decarb showing.
L843755	619016	7112868	Anubis	black silty carbonaceous limestone with dense fine black fractures and slickensides. Float.
L843756	619016	7112868	Anubis	black silty carbonaceous limestone with dense fine black fractures and slickensides. Float.
L842605	619021	7114120	Anubis	Composite grab sample from fold hinge. Pyritic calcite veined lime micrite and chert flakes that have a yellowish-green coating (possible scordite)
L843594	619032	7113071	Dale	Highly pyritic layers in carbonaceous siltstone unit.
L843754	619037	7112902	Anubis	orange weathering, blue-black, calcite veined, graphitic silty limestone with cryptic red sphalerite? In calcite veins. Float.
L843753	619037	7112952	Anubis	highly fractured, calcite veined, carbonaceous limestone breccia. Grey. Tan weathering. Float.
L843751	619037	7112952	Anubis	black and orange speckled, prorous, weakly calcareous sandstone. Float.
L843752	619037	7112952	Anubis	tan weathering, orange and black fractured, fine grained weakly calcareous grey sandstone breccia. Float.
L842760	619071	7112020	Anubis	moderately oxidized wackestone. Float.
L843605	619089	7112378	Anubis	black chert with botryoidal quartz and orange-purple quartz
L843606	619089	7112378	Anubis	rusty-grey brecciated chert, locally vesicular
L843592	619090	7112883	Dale	Carbonaceous soil and fragments from anomalous soil sample.
L843593	619090	7112883	Dale	Limonitic limey siltstone fragment from anomalous soil sample.
L843604	619093	7112386	Anubis	orange and black breccia, orange porous matrix, with clasts of chert and decarb limestone
L842965	619094	7113026	Anubis	creamy, powdery, chert clast bearing breccia. Float.
L842972	619100	7112360	Anubis	orange weathering argillaceous fault breccia. Float.
L842973	619104	7112340	Anubis	brecciated argillite with minor colloform quartz veinlets. Float.
L843603	619106	7112342	Anubis	white and black breccia, calcite matrix with angular clasts of dark calcarious rock ranging from 1mm to 5cm
L842730	619118	7113323	Anubis	orange limonite boulder. Vuggy with blue-black pits. Float.
L842607	619120	7114117	Anubis	Limonitic material found on fracture faces in carbonaceous siltstone.
L842653	619123	7113320	Anubis	liminitic material, non calcarious
L842673	619123	7113325	Anubis	from pit: rusty fractured siltstone, moderatly porous
L842672	619123	7113325	Anubis	from pit: rusty liminitic, altered fossiliferous limestone, no HCl reaction, porous
L842674	619123	7113325	Anubis	from pit: brown, moderatly cohesive soil, and rock fragments
L842805	619123	7113325	Anubis	light brown soil with high clay content, and rock frangments
L842958	619152	7112937	Anubis	earthy, rusty, brecciated rock from pit. Argillite breccia?
L842957	619152	7112937	Anubis	pit over high Sb in soil. Bulk rock sample. Sparry crinoidal wackestones.
L842948	619153	7112938	Anubis	earthy black rock with minor red-yellow oxidation. Float.
L842803	619156	7113435	Anubis	brown, non calcarious, sandy material
L842804	619156	7113435	Anubis	bulk sample of till
L842971	619168	7112838	Anubis	blue limestone with abundant dark fractures and thin wavy calcite veinlets. Trench float
L842982	619170	7112835	Anubis	trench sample 40-50m
L843000	619171	7112834	Anubis	creamy coloured medium to coarse, rounded quartz sandstone with a calcite matrix. Trench float.
L842981	619172	7112844	Anubis	trench sample 32-40m
L843608	619172	7112844	Anubis	rusty-grey decarbonized fossiliferous limestone, porous and non-calcarious
L842999	619174	7112842	Anubis	brown, pitted, debritic crinoid and bryozoan bearing non-calcareous trench float.
L842980	619175	7112854	Anubis	trench sample 26-35m
L843607	619175	7112849	Anubis	grey limestone, fossiliferous and non-fossiliferous limestone, <1mm crinoids, clastic texture
L843640	619176	7112845	Anubis	weakly folliated, fine grained drity calcareous sandstone. Trench float.
L843642	619176	7112853	Anubis	grey, strongly calcite veined limestone. Trench float.



L843641	619177	7112847	Anubis	brown oxidized silty limestone. In situ. Trench.
L842979	619178	7112850	Anubis	trench sample 25-26m
L842978	619180	7112860	Anubis	trench sample 9-25m
L842956	619181	7112908	Anubis	rusty, pitted, locally brecciated black argillite. Subcrop.
L842977	619182	7112870	Anubis	trench sample 5-9m
L842976	619184	7112872	Anubis	trench sample 4-5m
L842975	619185	7112874	Anubis	trench sample 2-4m
L843643	619185	7112866	Anubis	dark grey, calcite veined carbonaceous limestone. In situ. Trench.
L842974	619186	7112874	Anubis	trench sample 0-2m
I357914	619190	7112893	Anubis	carbonaceous, argillaceous chert possibly with pyrite? highly fractured argillite with slickensides, limonitic vugs and green-yellow oxidation. Pervasive manganese coating. Ridgetop float.
L842959	619193	7112894	Anubis	Light colored, highly calcareous crystalline carbonate. Possible clay alteration. Float
M389472	619198	7112052	Anubis South	slickenside bearing chert breccia. Float.
L842949	619200	7112982	Anubis	locally oxidized, pitted, blue limestone. Ridgetop float.
L842950	619209	7112933	Anubis	Decarbed, sandy micrite. Decarb occurs coincidentally with brown oxidation and reduction in HCL RXN.
M389469	619215	7112018	Anubis South	Sharp alteration front with grey, sandy calcareous material. Float.
M389470	619215	7112018	Anubis South	Light brown, sandy, extremely porous decarbed? Limestone. Float. Small hematitic rock. Abundant pits. Black seams, weakly calcareous and porous. Slickenlines on hematitic slip plane. Float.
M389471	619220	7112031	Anubis South	Limonitic carbonate breccia. Outcrop grab sample.
L842609	619221	7115450	Dale North	mixed organics and grey clay rich shaley soil. 0-0.5m.
L843726	619226	7112827	Anubis	coarse shale chips. 0.5-1.3m.
L843727	619226	7112827	Anubis	Sandy, porous, non calcareous decarbed limestone. Hand Pit Grab (B horizon)
M389462	619227	7111930	Anubis South	Light colored, sandy, decarbed (non calcareous ) limestone. Hand Pit Grab (B horizon)
M389461	619227	7111930	Anubis South	Light colored, sandy calcareous rock. Hand Pit Grab (B horizon)
M389467	619227	7111930	Anubis South	Light colored, sandy porous rock. Hand Pit Grab (B horizon)
M389463	619227	7111930	Anubis South	Light colored, fine grained, calcareous rock. Hand Pit Grab (B horizon)
M389466	619227	7111930	Anubis South	Grey, highly calcareous crystalline carbonate. Hand Pit Grab (B horizon)
M389464	619227	7111930	Anubis South	Light grey, Extremely porous, highly calcareous sandy rock displaying faint relict banding. Hand Pit Grab (B horizon)
M389468	619227	7111930	Anubis South	Sandy, porous, highly calcareous crystalline carbonate. Hand Pit Grab (B horizon)
M389465	619227	7111930	Anubis South	crinoidal wackestone with cryptic pyrite. Float.
L842955	619234	7112803	Anubis	calcite cemented siliciclastic breccia.
I357933	619240	7115419	Dale North	black limestone, calcite veins, bearing fin-med grained disseminated pyrite
L842670	619250	7113217	Anubis	brown-black fine shaley soil. 1.7-2m.
L843721	619252	7112839	Anubis	grey clay-rich shaley soil. 0.7-1.1m.
L843719	619252	7112839	Anubis	brown-black fine shaley soil. 1.1-1.7m.
L843720	619252	7112839	Anubis	light grey soil with minor shale bits. 0-0.7m.
L843718	619252	7112839	Anubis	fine black shaley soil. 2-2.4m.
L843722	619252	7112839	Anubis	fine black shaley soil. 2.7-3m.
L843724	619252	7112839	Anubis	augered sample of black shaley soil to 3.2m.
L843725	619252	7112839	Anubis	fine black shaley soil. 2.4-2.7m.
L843723	619252	7112839	Anubis	fossiliferous limestone, which is locally clay altered
L842652	619267	7113285	Anubis	black limonite altered fault breccia with porous patches. Float from west side of saddle.
L842729	619276	7113248	Anubis	rusty, vossicular, metallic shimmer, non calcareous, altered rock, glass "chert" like fragments
L842671	619278	7113251	Anubis	
L843716	619280	7112823	Anubis	black crumbly non-reactive, porous, carbonaceous rock with some tiny red speckles from near base of pit.
L843715	619280	7112823	Anubis	black crumbly non-reactive, porous, carbonaceous rock from near base of pit.
L843708	619280	7112823	Anubis	crumbly black carbonaceous, porous subcrop. 2.8-3m.
L843713	619280	7112823	Anubis	black shale chips in soil. 0.2-0.7m.
L843709	619280	7112823	Anubis	brown-black clay and shale chips in soil. 2.2-2.8m.
L843710	619280	7112823	Anubis	black shale chips in soil. 1.7-2.2m.
L843714	619280	7112823	Anubis	brown organic rich soil. 0-0.2m.
L843711	619280	7112823	Anubis	black shale chips in soil. 1.2-1.7m.
L843707	619280	7112823	Anubis	black soil with fine shale chips. Auger to 3.2m.
L843712	619280	7112823	Anubis	black shale chips in soil. 0.7-1.2m.
L843717	619280	7112823	Anubis	brecciated grey fossiliferous limestone wackestone from near top of pit.
L842651	619291	7113277	Anubis	silicified, moderately calcareous rock, white-grey, quartz veins differential weathering
I357915	619297	7113250	Anubis	Goethite altered siltstone?
I357916	619297	7113250	Anubis	sphalerite in fine grained sandstone?
L842952	619300	7112814	Anubis	limestone fragments from pit. Medium to coarse grained with silty matrix.
L842951	619300	7112814	Anubis	pit sample. Argillite fragments in black soil. 1.2 m depth.
L842953	619300	7112814	Anubis	argillite cobble with minor drusy quartz-limonite pits. From pit
L843570	619301	7112812	Anubis	Black, sooty carbonaceous soil with rock fragments dug out of pit running ~0.3 g/au in soil.
L843571	619301	7112812	Anubis	Random rock fragments from soil pit.
L843572	619301	7112812	Anubis	Angular, veined vesicular breccia dug out of soil pit.
G0557648	619304	7113264	Anubis	Goethitic, limonitic, decarbed fossiliferous limestone (float).
G0557649	619304	7113264	Anubis	Goethitic, limonitic, decarbed fossiliferous limestone (float).
G0557650	619304	7113264	Anubis	Goethitic, limonitic, decarbed fossiliferous limestone (float).
L843649	619305	7112809	Anubis	pit 6. brown-black shaley soil with rare orange-red oxidized soil patches. 1.3-1.4m.
L843646	619305	7112809	Anubis	pit 6. brown-black shaley soil. 1.7-2.2m.
L843645	619305	7112809	Anubis	pit 6. brown-black shaley soil. 2.2-2.8m.
L843648	619305	7112809	Anubis	pit 6. brown-black shaley soil with minor limestone cobbles. 1.4-1.6m.



L843647	619305	7112809	Anubis	pit 6. redish brown clay rich soil. 1.6-1.7m.
L843644	619305	7112809	Anubis	pit 6. brown-black shaley soil. 3.2m depth by auger.
L843650	619305	7112809	Anubis	pit 6. brown-black shaley soil with minor limestone cobbles. 0.9-1.3m.
L843701	619305	7112809	Anubis	pit 6. brown-black shaley soil with minor limestone cobbles. 0.3-0.9m.
L843702	619305	7112809	Anubis	pit 6. organic rich brown soil. 0-0.3m.
L843706	619305	7112809	Anubis	dark grey laminated limestone. Pit 6 float.
L843703	619305	7112809	Anubis	grey carbonaceous debrite, pit 6 float.
L843705	619305	7112809	Anubis	rusty weathering grey limestone breccia with calcite veins. Pit 6 float.
L843704	619305	7112809	Anubis	rusty weathering grey limestone breccia with calcite veins. Pit 6 float.
L842954	619305	7112777	Anubis	grey quartz sandstone with 3% clay altered coarse grains and 3% limonitic pits. From boulder float on spur.
L842727	619362	7113143	Anubis	Favosites coral altered to massive limonite with some textural preservation. Saddle float.
L842726	619370	7113148	Anubis	Massive limonite cobble in saddle float. Tectonic breccia (matrix supported) containing limestone clasts within a brown, oxidized, non calcareous matrix.
L842601	619375	7113170	Anubis	calcareous floatstone in carbonate member of Yusezyu. With pyrite?
I357935	619405	7115209	Dale North	Brown limonite altered angular clasts in fault breccia? Saddle float.
L842728	619415	7113108	Anubis	black fossiliferous limestone, porous, blue-grey weathering
L842695	619577	7113659	Anubis	bright orange weathering limestone breccia cemented with calcite.
I357934	619603	7115153	Dale North	altered, med grained quartz conglomerate , black crumbly material, calcite viens
L842694	619689	7113163	Anubis	alteration of siltstone - fine sandstone in Yusezyu Formation of Hyland?
I357932	619779	7113931	Anubis	Silicified carbonate material from within a fold hinge zone.
L842602	619823	7113117	Anubis	bedded grey limestone, bearing fine grained disseminated pyrite, calcite viens
L842693	619864	7112987	Anubis	bedded grey limestone bearing rusty limestone
L842692	619878	7112934	Anubis	Composite sample from fold hinge zone. Carbonate, fine terrigenous material and chert containing Qz-Ca veins and a late, unidentified brown mineral.
L842603	619895	7113046	Anubis	Rounded cobble of oxidized, silicified carbonate found in float.
L842608	619907	7115380	Dale North	grey limestone with black moderatly silicified layer
L842691	619914	7112895	Anubis	bedded limestone, grey, bearing fine grained disseminated pyrite
L842690	619954	7112966	Anubis	



**APPENDIX V**

**SILT, SOIL AND ROCK SAMPLE - CERTIFICATES OF ANALYSIS**









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**CERTIFICATE OF ANALYSIS WH12121760**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242051		0.55	<0.01	0.55	0.08	946	280	0.05	0.01	0.88	72.0	2.34	0.4	<1	0.06	1.1
K242052		0.71	<0.01	1.95	0.12	181.5	2610	0.06	0.08	0.25	>1000	3.49	9.1	5	0.09	70.0
K242053		0.34	<0.01	0.22	0.22	7	270	0.11	0.17	20.2	54.5	5.63	2.7	10	0.12	4.3
K242054		0.39	<0.01	7.27	0.10	140.0	6010	0.09	0.04	2.68	>1000	3.11	16.5	4	0.08	58.2
K242055		0.37	<0.01	0.45	3.92	1260	560	0.79	0.14	1.19	75.2	36.2	7.6	45	3.43	415
K242056		0.38	<0.01	0.40	2.67	363	670	0.68	0.17	0.21	18.75	28.9	2.4	52	3.55	36.5
K242057		0.65	<0.01	0.10	1.74	4.6	120	0.35	0.05	7.53	1.92	22.5	4.8	31	0.43	15.0
K242058		0.31	<0.01	0.16	1.58	14	290	0.41	0.06	12.65	4.52	18.35	3.0	15	0.87	12.0
K242059		0.73	<0.01	3.78	0.20	115.5	5900	2.54	0.50	0.06	2.52	2.76	0.7	32	0.41	39.9
K242060		1.80	0.08	>100	0.10	529	380	0.65	0.34	0.04	26.2	20.6	0.5	10	0.47	247
K242061		2.19	0.01	13.15	0.23	144.0	2380	2.94	0.57	0.07	3.26	1.93	1.2	22	0.50	41.6
K242062		3.16	0.02	>100	0.12	354	40	1.55	0.21	0.08	25.8	15.65	0.3	13	0.38	107.0
K242063		0.68	0.01	63.9	0.26	212	1600	3.04	1.15	0.13	7.99	5.80	1.6	30	0.73	77.9
K242064		1.30	0.07	>100	0.05	288	60	0.42	0.56	0.02	20.5	12.30	0.2	11	0.24	215
K242065		1.12	0.04	>100	0.04	183.5	70	0.19	0.17	0.02	20.4	7.55	0.2	4	0.23	138.5
K242066		0.51	<0.01	24.3	0.21	90.4	4460	2.17	1.07	0.43	4.43	7.38	1.4	37	0.38	42.7
K242067		2.73	0.01	46.0	0.17	79.5	2000	2.14	0.43	0.32	5.89	4.00	1.2	21	0.37	34.3
K242068		2.74	0.01	24.9	0.12	51.2	2300	1.18	0.18	0.34	5.36	2.13	0.7	14	0.32	18.9
K242069		2.63	0.12	>100	0.08	725	540	0.32	0.19	0.03	19.60	14.45	0.3	6	0.41	208
K242070		1.63	0.02	62.7	0.29	196.5	2060	3.52	0.54	0.04	4.62	4.02	1.1	22	0.58	72.0
K242071		3.65	0.05	>100	0.06	204	320	0.13	0.11	0.02	15.45	5.65	0.2	6	0.45	117.0
K242072		2.86	<0.01	26.1	0.12	62.1	3110	1.34	0.66	0.24	2.86	3.41	0.7	31	0.27	24.9
K242073		1.06	0.05	>100	0.03	228	250	0.11	0.12	0.02	23.5	16.05	0.1	2	0.19	177.5
K242074		0.59	0.01	45.2	0.25	192.0	2480	1.20	0.17	0.05	5.42	1.91	0.7	13	0.64	133.5
K242075		3.20	0.03	>100	0.22	144.0	1030	1.90	0.43	0.19	8.53	5.54	0.9	21	0.47	75.7
K242001		1.24	<0.01	0.61	0.15	36	1110	0.09	0.83	18.55	80.5	4.69	1.9	10	0.08	6.0
K242002		0.73	<0.01	0.88	0.06	7	190	0.08	0.01	19.50	109.0	3.33	4.6	3	0.05	2.6
K242003		1.19	0.16	>100	0.14	695	2860	1.40	1.09	0.06	27.0	10.30	0.4	22	0.42	606
K242004		0.12	0.16	17.20	4.86	<5	160	0.58	2.69	13.55	39.8	10.60	51.3	199	0.11	117.5
K242005		1.12	<0.01	0.94	0.05	<5	80	0.08	0.01	22.3	24.3	0.91	1.1	2	0.05	3.4
K242006		1.35	<0.01	1.21	0.11	21	130	0.11	0.03	19.95	0.41	4.75	4.2	6	0.05	10.2
K242101		1.12	<0.01	0.34	5.97	6	630	1.16	0.06	13.50	0.13	58.4	8.1	227	2.11	18.1
K242102		0.73	<0.01	0.20	0.26	6	70	0.09	0.02	24.0	0.56	2.62	1.8	4	0.14	2.9
K242103		0.71	<0.01	3.39	0.22	63.5	170	2.92	0.65	0.49	1.40	1.09	1.4	30	0.47	18.2
K242104		0.80	<0.01	2.09	0.15	33.5	1140	2.26	0.38	0.55	0.81	0.80	1.0	32	0.37	9.9
K242105		0.90	<0.01	0.22	4.87	13	330	0.78	0.04	13.25	0.08	48.9	9.9	137	0.85	17.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12121760**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K242051		>50	0.32	1.24	<0.1	0.02	0.027	0.01	1.7	0.6	0.12	<5	2.98	0.02	1.1	6.4
K242052		4.66	0.56	<0.05	0.1	1	0.134	0.03	2.1	1.0	0.18	984	4.04	<0.01	0.2	74.5
K242053		0.84	0.93	0.06	0.1	0.02	0.019	0.09	4.5	5.5	11.95	446	1.39	0.01	1.2	7.8
K242054		5.25	0.51	<0.05	0.1	1	0.047	0.03	2.6	1.1	1.59	1460	5.02	<0.01	0.3	149.5
K242055		23.7	8.16	0.54	1.1	0.03	0.119	1.25	17.4	19.6	1.20	281	2.79	0.51	3.6	25.1
K242056		20.2	11.25	0.40	1.0	0.07	10.80	1.04	15.9	11.2	0.33	112	4.98	0.23	3.8	14.4
K242057		3.42	4.10	0.05	1.0	0.01	0.051	0.28	10.1	17.7	2.94	1440	0.47	0.46	2.7	7.7
K242058		1.70	3.89	<0.05	1.1	0.01	0.063	0.87	9.1	8.4	7.41	1040	0.27	0.12	2.6	5.7
K242059		2.60	16.30	<0.05	0.1	0.14	18.20	0.05	3.5	15.7	0.02	62	0.50	<0.01	0.3	22.9
K242060		5.39	10.55	0.09	<0.1	4.53	25.7	0.02	19.6	7.1	0.01	37	3.05	<0.01	0.1	6.7
K242061		3.17	10.75	<0.05	0.1	0.69	11.20	0.05	2.9	11.9	0.03	68	0.42	<0.01	0.2	30.0
K242062		3.14	5.60	<0.05	<0.1	3.83	7.21	0.02	9.2	6.4	0.01	20	1.68	<0.01	0.1	4.3
K242063		3.44	12.05	<0.05	0.1	1.11	22.3	0.06	7.0	10.2	0.03	120	0.92	<0.01	0.4	17.7
K242064		6.25	6.06	0.11	<0.1	7.75	22.8	0.01	10.1	4.5	<0.01	13	0.82	<0.01	0.1	3.4
K242065		1.68	1.79	<0.05	<0.1	3.17	3.34	0.01	4.8	3.1	<0.01	30	0.52	<0.01	<0.1	1.5
K242066		1.92	7.89	<0.05	0.1	0.41	19.10	0.05	10.5	9.3	0.07	72	0.44	<0.01	0.3	16.3
K242067		1.84	13.55	<0.05	0.1	0.59	11.55	0.04	6.5	7.2	0.05	81	0.41	<0.01	0.3	14.6
K242068		1.05	7.85	<0.05	0.1	0.49	4.08	0.03	3.5	4.7	0.14	46	0.36	<0.01	0.2	8.2
K242069		5.96	9.69	0.07	<0.1	6.14	25.8	0.02	12.8	7.2	0.01	42	1.47	<0.01	0.1	2.3
K242070		4.04	19.60	<0.05	0.1	1.49	33.2	0.06	5.2	11.2	0.02	59	0.94	<0.01	0.2	30.5
K242071		1.38	2.02	0.08	<0.1	2.63	3.44	0.01	3.8	5.5	0.01	26	1.96	<0.01	0.1	1.3
K242072		1.30	8.11	<0.05	<0.1	0.42	9.18	0.03	5.4	5.6	0.04	48	0.39	<0.01	0.2	9.5
K242073		1.43	2.50	<0.05	<0.1	3.41	4.72	0.01	11.6	2.4	<0.01	23	0.54	<0.01	<0.1	0.8
K242074		4.42	4.58	<0.05	<0.1	0.46	10.20	0.07	2.9	3.8	0.03	41	0.85	<0.01	0.3	8.6
K242075		2.29	10.30	<0.05	<0.1	1.29	13.85	0.04	7.5	10.8	0.05	92	1.87	<0.01	0.2	13.4
K242001		1.03	0.46	<0.05	<0.1	0.12	0.152	0.06	3.2	3.1	11.70	460	0.32	0.01	0.5	2.7
K242002		1.63	0.24	<0.05	<0.1	0.03	0.022	0.02	2.3	2.3	12.30	621	0.37	0.01	0.3	3.0
K242003		11.45	16.65	0.20	<0.1	4.41	195.5	0.05	9.4	5.0	0.03	66	2.54	<0.01	0.3	8.2
K242004		6.76	7.56	0.09	0.1	1.08	0.462	0.04	5.1	16.2	5.70	2960	0.52	0.01	1.5	97.3
K242005		0.21	0.36	0.31	<0.1	0.01	0.222	0.01	0.6	1.4	13.85	342	0.69	0.01	0.3	<0.2
K242006		3.31	0.49	<0.05	0.1	0.08	0.020	0.05	3.6	2.4	11.85	239	11.60	0.01	0.5	18.7
K242101		4.01	13.50	0.06	0.6	0.3	0.074	3.32	39.9	31.1	0.95	313	0.14	0.05	40.2	49.7
K242102		0.21	0.79	0.31	<0.1	0.05	0.040	0.09	1.4	2.5	12.15	78	1.45	0.02	0.7	<0.2
K242103		4.48	13.70	<0.05	<0.1	0.55	0.051	0.05	0.6	11.0	0.18	71	0.84	0.01	0.2	43.6
K242104		2.76	11.60	<0.05	<0.1	0.17	0.022	0.04	0.5	9.8	0.26	68	0.45	<0.01	0.1	25.3
K242105		5.63	8.09	0.05	0.4	0.3	0.044	2.18	36.2	20.4	0.83	368	0.18	0.77	27.7	89.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Finalized Date: 8- JUN- 2012  
 Account: RCM

Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12121760**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K242051		40	153.5	0.5	<0.002	0.12	22.8	0.2	2	<0.2	84.2	<0.05	<0.05	<0.2	<0.005	0.68
K242052		730	2330	1.2	<0.002	0.07	8.53	0.5	49	0.7	3.0	<0.05	0.05	0.2	0.005	0.34
K242053		1360	213	2.6	<0.002	0.01	1.11	0.8	4	1.4	45.0	0.05	<0.05	0.4	0.016	0.11
K242054		1450	1385	0.8	<0.002	0.20	64.9	0.4	34	0.6	30.4	<0.05	<0.05	<0.2	0.005	1.76
K242055		780	475	42.5	<0.002	0.05	8.72	9.2	3	1.2	47.9	0.23	<0.05	3.6	0.196	0.56
K242056		600	72.5	38.8	<0.002	0.04	3.11	5.1	3	1.0	19.8	0.24	0.05	3.5	0.138	0.77
K242057		300	36.4	11.2	<0.002	0.01	2.67	7.7	1	0.5	148.0	0.19	<0.05	2.5	0.200	0.07
K242058		630	139.0	29.5	<0.002	0.01	4.13	2.6	1	0.6	101.0	0.17	<0.05	2.8	0.072	0.19
K242059		250	3270	3.3	<0.002	0.16	415	1.0	1	93.0	15.7	<0.05	0.21	1.2	0.006	0.16
K242060		300	>10000	1.4	<0.002	0.84	925	0.2	7	254	73.7	<0.05	0.09	<0.2	<0.005	0.24
K242061		200	2560	3.6	<0.002	0.12	456	0.8	1	24.6	96.2	<0.05	0.10	<0.2	0.006	0.24
K242062		1740	>10000	1.3	<0.002	3.94	1285	0.4	3	214	73.5	<0.05	0.09	<0.2	<0.005	0.35
K242063		490	5120	4.1	<0.002	0.19	398	0.9	1	177.5	119.0	<0.05	0.31	0.2	0.009	0.36
K242064		790	>10000	0.8	<0.002	4.67	1570	0.2	15	440	36.8	<0.05	0.19	<0.2	<0.005	0.34
K242065		320	>10000	0.7	<0.002	9.06	2490	0.1	5	>500	23.9	<0.05	<0.05	<0.2	<0.005	1.22
K242066		290	3680	2.8	<0.002	0.19	306	1.0	1	66.0	52.1	<0.05	0.18	<0.2	0.007	0.21
K242067		180	3820	2.5	<0.002	0.15	309	0.6	2	12.1	79.7	<0.05	0.06	<0.2	0.006	0.21
K242068		140	912	2.2	<0.002	0.10	178.0	0.3	1	9.4	222	<0.05	0.08	<0.2	0.006	0.23
K242069		290	>10000	1.2	<0.002	1.15	1160	0.1	6	363	43.0	<0.05	<0.05	<0.2	<0.005	0.22
K242070		270	5710	4.4	<0.002	0.13	441	0.8	1	70.9	88.1	<0.05	0.29	<0.2	0.006	0.30
K242071		230	>10000	1.4	<0.002	4.98	1565	0.1	4	87.3	53.7	<0.05	<0.05	<0.2	<0.005	0.49
K242072		180	1730	2.1	<0.002	0.13	224	0.5	<1	31.5	96.5	<0.05	0.17	<0.2	0.005	0.22
K242073		150	>10000	0.7	<0.002	8.49	2540	0.2	2	>500	39.1	<0.05	<0.05	<0.2	<0.005	0.91
K242074		1200	5480	4.2	<0.002	0.19	160.5	0.6	<1	36.0	254	<0.05	<0.05	<0.2	0.010	0.25
K242075		450	>10000	2.9	<0.002	0.45	463	0.6	3	161.5	179.5	<0.05	0.27	<0.2	0.006	0.26
K242001		600	301	2.1	<0.002	0.15	3.63	0.6	4	1.0	235	<0.05	<0.05	0.3	0.008	0.04
K242002		340	313	0.6	<0.002	0.03	1.94	0.5	5	0.6	52.4	<0.05	<0.05	<0.2	<0.005	0.03
K242003		1780	>10000	3.1	<0.002	0.74	574	0.4	17	>500	25.8	<0.05	5.18	<0.2	<0.005	0.34
K242004		360	>10000	1.7	<0.002	0.64	22.1	33.8	13	2.8	320	0.09	0.41	0.2	0.280	0.07
K242005		40	191.5	0.6	<0.002	0.05	1.70	0.3	<1	1.6	64.2	<0.05	<0.05	<0.2	<0.005	0.03
K242006		1030	181.5	1.3	<0.002	0.02	5.13	0.5	2	0.3	73.7	<0.05	<0.05	0.2	0.007	0.15
K242101		1940	29.9	75.1	<0.002	2.78	1.43	15.7	1	1.4	91.0	2.27	0.23	4.5	0.847	0.77
K242102		140	64.4	3.9	<0.002	0.02	2.14	0.7	<1	0.5	193.5	<0.05	<0.05	0.4	0.015	0.13
K242103		210	1675	3.3	<0.002	0.01	368	1.3	1	3.1	4.4	<0.05	<0.05	0.2	0.007	0.59
K242104		130	1265	2.5	<0.002	0.03	229	0.8	<1	1.8	3.9	<0.05	<0.05	<0.2	0.005	0.43
K242105		1050	16.0	46.4	<0.002	5.06	2.05	11.1	<1	1.0	82.1	1.59	0.12	3.5	0.553	0.28

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12121760**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Ag- GRA21	Zn- OG62	Pb- VOL70	Zn- VOL50
		U	V	W	Y	Zn	Zr	Ag	Pb	Ag	Zn	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	5	0.001	0.01	0.01
K242051		57.2	2	0.2	1.5	>10000	<0.5				1.370		
K242052		5.5	14	0.1	3.7	>10000	1.6				>30.0		45.78
K242053		11.5	39	0.1	4.5	>10000	3.8				2.46		
K242054		10.7	16	0.1	4.4	>10000	2.6				>30.0		36.11
K242055		30.0	110	0.4	12.0	>10000	30.6				1.255		
K242056		13.2	318	0.5	5.6	7570	29.3						
K242057		0.9	57	0.3	10.4	232	30.2						
K242058		1.9	25	0.2	7.2	430	34.4						
K242059		1.4	88	94.8	0.7	2300	8.0						
K242060		3.7	19	18.0	1.3	2210	1.3	1270	>20.0			24.43	
K242061		1.5	48	121.0	0.8	2940	4.7						
K242062		7.7	25	28.8	2.1	2150	1.7	>1500	>20.0	1705		29.29	
K242063		2.7	170	79.4	1.6	2360	13.6						
K242064		8.3	18	6.1	0.5	1550	3.9	>1500	>20.0	2380		36.65	
K242065		3.8	5	0.8	0.5	1080	0.6	>1500	>20.0	2960		60.31	
K242066		1.9	117	58.8	1.2	1990	13.9						
K242067		1.6	41	50.5	1.0	1600	3.0						
K242068		1.5	48	24.5	0.6	935	3.0						
K242069		3.5	5	4.0	0.7	1580	0.7	>1500	>20.0	1795		36.48	
K242070		1.7	42	119.0	0.8	2770	2.7						
K242071		4.1	2	3.9	0.4	523	1.0	>1500	>20.0	2180		41.47	
K242072		1.4	57	41.4	0.6	1080	5.9						
K242073		4.4	3	0.7	0.6	1020	0.5	>1500	>20.0	2960		59.21	
K242074		1.5	51	27.2	1.0	1820	3.5						
K242075		2.5	55	51.9	1.2	3410	4.4	245	3.52				
K242001		6.3	14	0.9	4.0	>10000	2.6				2.56		
K242002		4.5	10	0.3	5.6	>10000	1.3				3.44		
K242003		4.9	62	68.1	1.2	4370	2.2	1200	14.60				
K242004		0.2	166	0.6	21.2	6270	4.8		1.920				
K242005		3.6	20	0.1	0.7	1540	0.8						
K242006		5.9	27	0.5	4.0	78	3.3						
K242101		0.4	148	2.2	12.7	39	25.6						
K242102		1.3	6	0.1	1.4	50	2.8						
K242103		1.4	52	64.2	1.5	2870	3.1						
K242104		0.9	34	30.2	0.9	1680	1.9						
K242105		0.3	79	2.9	8.9	21	17.7						





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Account: RCM

Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12121760**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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 Account: RCM

**CERTIFICATE WH12126841**

Project: ATAC Regional- Area L/ K  
 P.O. No.: R2  
 This report is for 47 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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 Account: RCMP

Project: ATAC Regional- Area L/K

**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242007		0.71	<0.01	0.04	5.79	16	830	0.74	0.04	11.45	0.25	46.7	32.2	178	2.44	46.3
K242008		1.50	<0.01	0.10	0.13	217	70	0.13	0.03	18.50	148.0	3.68	4.4	5	0.28	66.0
K242009		0.72	<0.01	0.14	0.13	373	70	0.14	0.05	17.15	212	3.47	8.2	4	0.34	111.5
K242010		0.56	<0.01	<0.01	2.43	10	540	0.37	0.01	27.1	1.34	27.9	14.0	145	0.71	8.4
K242011		0.39	<0.01	<0.01	3.15	50	1070	0.63	0.02	24.0	0.18	35.8	53.0	148	1.45	35.4
K242012		0.42	<0.01	<0.01	8.78	43.0	2720	1.76	0.03	1.61	1.24	222	10.4	29	2.14	13.6
K242013		0.97	<0.01	0.04	1.19	23.0	170	0.13	0.01	4.08	0.58	12.45	2.2	18	0.11	4.5
K242014		1.10	<0.01	<0.01	3.04	39.3	400	0.41	<0.01	5.26	0.45	30.1	3.5	31	0.25	3.4
K242015		0.69	<0.01	<0.01	2.96	13.7	380	0.38	<0.01	8.73	0.60	26.5	2.4	19	0.23	3.9
K242016		0.25	0.02	13.90	1.51	119.0	230	0.48	32.5	0.20	0.10	32.4	0.8	31	1.54	20.2
K242017		0.19	<0.01	0.04	1.09	<5	4120	0.27	0.07	27.5	0.07	18.65	1.8	9	1.03	1.3
K242018		0.43	<0.01	0.37	0.26	14	90	0.17	0.81	23.7	0.36	4.15	2.6	6	0.30	11.8
K242019		0.40	<0.01	0.36	0.34	<5	130	0.30	0.13	26.4	0.11	3.52	1.3	4	0.17	10.2
K242020		0.27	<0.01	0.17	0.42	9	60	0.23	4.22	20.4	0.41	3.44	1.7	8	0.23	3.8
K242021		0.36	<0.01	0.02	2.34	<5	230	0.36	0.03	28.7	0.09	31.3	4.0	19	1.11	4.1
K242022		0.45	<0.01	0.03	1.01	<5	6700	0.34	0.04	25.9	0.05	13.55	2.0	8	0.97	2.4
K242023		1.08	<0.01	0.01	0.75	5	7490	0.28	0.07	26.7	0.05	14.60	1.9	6	0.72	1.9
K242076		0.44	<0.01	0.02	1.41	12	170	0.25	0.01	13.70	0.11	19.35	10.6	74	0.22	11.1
K242077		0.52	<0.01	0.07	7.54	119.5	1890	1.59	0.02	5.85	0.10	89.5	43.7	69	1.54	59.7
K242106		1.15	<0.01	0.11	7.10	104.5	520	0.49	0.01	3.55	0.10	23.8	43.4	182	1.67	108.0
K242107		0.43	0.01	0.06	4.52	85.2	1420	0.32	0.04	8.20	0.18	6.45	8.2	20	1.45	4.3
K242108		0.90	<0.01	0.97	0.94	48	80	0.20	0.11	16.30	0.52	8.37	3.6	11	0.08	39.2
K242109		0.76	0.03	>100	0.36	1760	810	0.22	164.5	19.65	32.9	12.55	2.8	8	0.33	>10000
K242110		0.78	<0.01	4.60	0.42	7	110	0.30	1.32	28.2	1.05	2.87	1.3	5	0.33	110.0
K242111		0.31	<0.01	0.45	0.28	93	270	0.68	1.46	32.1	1.45	7.26	8.1	4	0.17	1075
K242112		1.31	<0.01	4.64	5.94	55	1420	1.11	0.95	13.45	0.54	81.5	41.4	283	3.00	218
K242113		1.25	<0.01	0.22	0.83	62	170	0.35	1.06	27.5	0.20	13.50	3.6	6	0.32	10.4
K242114		0.93	<0.01	1.71	0.68	9	150	0.49	1.00	23.2	0.46	13.25	2.9	6	0.97	52.8
K242115		0.67	<0.01	0.11	0.58	7	70	0.22	0.92	19.50	0.07	5.36	1.5	5	0.47	3.6
K242116		0.26	<0.01	0.04	0.38	<5	60	0.26	0.25	20.3	0.11	4.99	1.2	3	0.34	1.8
K242117		2.77	<0.01	0.13	1.05	29	150	0.49	1.05	22.7	0.25	15.60	6.5	12	0.63	2.9
K242118		0.38	<0.01	1.22	8.36	4.2	840	0.39	1.64	5.10	0.61	26.9	38.6	288	6.91	194.0
K242119		0.92	0.01	0.10	0.08	15	130	0.21	1.03	21.1	0.12	3.80	1.1	2	0.25	22.3
K242120		0.67	<0.01	0.06	0.05	6	60	0.12	2.34	21.4	0.20	3.50	1.1	2	0.14	2.2
K242121		0.60	<0.01	0.03	0.70	5	50	0.22	0.07	21.9	0.04	6.80	2.0	6	2.96	4.4
K242122		1.03	0.01	0.24	7.90	5.6	600	125.0	7.06	5.25	0.15	7.68	4.5	3	5.62	39.7
K242123		2.11	0.03	1.27	2.16	3.0	50	17.60	16.50	6.04	0.22	94.0	102.0	<1	7.81	1900
K242124		3.22	0.01	2.29	5.90	142.5	250	8.73	16.55	0.25	0.04	16.85	1.0	13	5.13	548
K242024		0.70	<0.01	5.49	8.25	112.0	1040	1.20	0.26	5.00	5.97	20.5	31.8	271	1.81	230
K242025		0.35	<0.01	0.07	0.81	11	320	2.63	0.41	19.45	0.27	8.40	3.4	19	2.01	3.3





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Project: ATAC Regional- Area L/K

**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K242007		4.58	16.50	0.17	2.5	0.10	0.065	3.20	22.6	8.9	1.89	934	0.48	0.04	15.9	63.3
K242008		2.21	0.64	<0.05	0.1	0.04	0.115	0.04	2.3	2.4	11.45	776	9.82	0.01	0.4	15.5
K242009		4.25	0.66	0.06	0.1	0.06	0.151	0.04	2.1	2.5	10.60	1240	20.5	0.01	0.3	44.4
K242010		2.91	5.60	0.05	0.2	0.02	0.035	1.21	12.6	14.8	0.66	627	0.16	0.32	8.1	108.0
K242011		5.39	8.47	0.13	0.3	0.01	0.043	1.73	16.1	14.3	0.77	343	0.13	0.04	13.1	151.0
K242012		6.78	38.9	0.34	3.3	0.05	0.049	2.28	102.0	17.3	0.72	654	2.36	3.93	79.4	32.1
K242013		0.91	1.74	<0.05	0.6	0.01	0.052	0.09	6.7	1.5	0.07	305	0.30	0.74	3.1	9.0
K242014		1.42	4.63	<0.05	1.5	0.02	0.078	0.26	16.5	2.8	0.08	515	0.45	1.72	7.7	12.5
K242015		1.85	4.53	<0.05	1.4	0.02	0.105	0.24	15.1	2.6	0.32	627	0.41	1.73	7.7	9.1
K242016		5.15	5.23	0.17	1.1	0.87	0.129	1.26	15.8	3.1	0.10	47	17.85	0.02	9.7	8.3
K242017		0.56	2.99	<0.05	0.4	0.01	0.016	0.69	8.7	8.7	6.08	184	0.15	0.02	1.8	<0.2
K242018		1.17	0.92	<0.05	0.1	0.06	0.055	0.11	2.2	1.7	10.80	296	0.26	0.02	0.6	<0.2
K242019		0.19	0.93	0.10	0.1	0.50	0.005	0.08	1.6	2.6	8.96	418	0.31	0.01	0.8	<0.2
K242020		0.67	1.27	0.09	0.2	0.02	0.008	0.20	1.8	1.2	11.50	176	1.51	0.02	1.1	<0.2
K242021		1.75	5.47	<0.05	0.6	0.01	0.025	0.82	13.9	11.8	1.93	196	<0.05	0.01	3.5	0.4
K242022		0.47	2.74	<0.05	0.4	<0.01	0.011	0.64	7.6	7.6	6.29	166	0.14	0.03	1.8	<0.2
K242023		0.45	2.03	<0.05	0.3	<0.01	0.009	0.45	8.2	5.6	6.59	179	0.26	0.03	1.4	<0.2
K242076		1.85	3.20	<0.05	0.3	0.01	0.034	0.10	9.4	11.6	1.00	709	0.15	0.35	3.3	59.4
K242077		7.09	23.2	0.25	0.7	0.04	0.090	1.03	40.9	29.4	1.77	752	0.93	2.85	38.3	96.7
K242106		7.53	15.75	0.16	0.4	0.02	0.072	1.06	9.7	12.6	3.40	930	0.51	3.53	3.2	130.0
K242107		5.23	12.65	0.09	0.1	0.01	0.077	0.85	3.0	11.2	2.86	1370	0.13	1.23	0.4	63.1
K242108		1.47	1.09	<0.05	0.4	0.03	0.178	0.04	4.7	1.8	0.13	790	0.27	0.48	2.0	5.1
K242109		2.53	1.10	<0.05	0.2	81.6	0.992	0.12	8.2	1.6	1.40	846	4.35	0.01	0.5	68.6
K242110		0.39	1.13	<0.05	0.2	0.50	0.032	0.18	1.7	1.3	6.46	566	0.65	0.01	1.0	<0.2
K242111		7.85	2.62	0.13	0.1	0.44	0.404	0.11	3.4	0.9	2.18	3330	15.35	0.01	0.7	66.0
K242112		3.98	16.20	0.14	0.9	0.47	0.088	3.09	38.1	10.3	2.65	856	0.26	0.06	27.2	104.0
K242113		7.96	3.10	0.12	0.3	0.04	0.538	0.39	4.9	1.5	1.85	10950	10.45	0.01	1.2	2.2
K242114		5.61	2.82	0.10	0.3	0.18	0.617	0.31	5.3	2.6	5.18	11150	2.53	0.01	1.2	<0.2
K242115		1.01	1.52	<0.05	0.2	0.02	0.037	0.30	2.2	3.2	10.75	970	0.22	0.02	0.9	<0.2
K242116		1.79	1.21	<0.05	0.1	0.01	0.111	0.20	2.0	2.5	10.35	2200	0.14	0.03	0.6	<0.2
K242117		4.69	3.50	0.07	0.5	0.03	0.423	0.31	6.4	4.2	6.01	7490	3.27	0.10	2.7	11.5
K242118		5.60	30.9	0.29	0.8	0.08	0.052	0.67	12.9	23.1	3.97	610	1.15	3.37	14.0	82.9
K242119		0.86	0.65	0.10	<0.1	<0.01	0.021	0.03	3.0	3.1	12.10	811	0.62	0.01	0.7	<0.2
K242120		0.30	0.79	0.32	<0.1	<0.01	0.018	0.02	3.0	2.5	12.45	716	0.36	<0.01	0.7	<0.2
K242121		0.41	2.95	0.19	0.2	<0.01	0.008	0.39	3.4	11.4	10.95	125	1.62	0.04	1.5	<0.2
K242122		1.18	47.0	0.20	2.2	<0.01	0.075	1.43	2.7	52.5	0.27	262	174.0	3.83	52.2	8.0
K242123		37.2	17.00	0.86	0.4	0.1	0.052	0.50	35.9	18.4	0.42	255	54.7	0.73	51.9	1.0
K242124		2.13	34.1	0.07	3.2	<0.01	0.597	3.36	9.2	73.7	0.57	158	2.79	0.04	93.0	0.7
K242024		5.31	34.3	0.41	0.9	0.01	0.109	0.43	10.9	36.1	3.80	893	1.64	3.58	14.5	91.3
K242025		1.06	4.49	<0.05	0.3	<0.01	0.144	0.20	9.2	12.5	8.89	438	0.63	0.10	1.8	53.2





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Project: ATAC Regional- Area L/K

**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K242007		2090	1.9	64.3	0.002	0.01	0.39	22.0	2	1.1	123.0	0.96	<0.05	3.3	0.685	0.46
K242008		970	65.5	1.9	<0.002	<0.01	30.2	0.5	7	1.2	83.9	<0.05	<0.05	0.3	0.006	0.07
K242009		680	127.5	1.9	<0.002	<0.01	63.8	0.5	12	1.3	66.2	<0.05	<0.05	0.2	0.005	0.09
K242010		810	2.5	28.5	<0.002	1.68	0.77	10.8	1	0.5	158.5	0.49	<0.05	1.0	0.261	0.16
K242011		1050	2.6	42.2	0.002	2.45	1.51	13.7	1	0.7	148.5	0.73	0.13	1.3	0.389	0.45
K242012		3400	8.0	45.1	<0.002	0.35	1.55	1.6	1	3.1	272	3.92	<0.05	14.1	0.247	0.29
K242013		230	3.1	3.0	<0.002	0.09	1.81	2.7	<1	0.2	243	0.15	<0.05	1.8	0.027	0.02
K242014		440	4.1	9.1	<0.002	0.28	1.47	4.5	1	0.4	321	0.43	<0.05	4.3	0.061	0.07
K242015		320	4.8	8.7	<0.002	0.02	1.15	6.0	1	0.3	477	0.41	<0.05	4.1	0.062	0.06
K242016		4180	1530	31.6	<0.002	1.27	23.9	2.2	21	4.1	1085	0.13	0.14	57.8	0.058	5.43
K242017		40	4.0	29.6	<0.002	0.23	0.26	2.5	1	0.3	155.0	0.11	<0.05	1.7	0.055	0.20
K242018		20	8.9	5.0	<0.002	<0.01	1.38	0.9	1	<0.2	54.2	<0.05	<0.05	0.4	0.013	0.04
K242019		20	7.0	2.9	<0.002	0.01	1.45	1.0	<1	<0.2	90.0	<0.05	<0.05	0.8	0.019	0.05
K242020		10	11.6	7.1	<0.002	0.02	0.82	1.3	<1	0.2	93.9	0.06	<0.05	0.8	0.030	0.05
K242021		60	8.0	37.2	0.002	0.06	0.09	4.5	1	0.6	295	0.24	<0.05	3.7	0.114	0.12
K242022		<10	2.0	24.8	<0.002	0.28	0.27	2.7	1	0.4	200	0.11	<0.05	1.8	0.054	0.17
K242023		30	2.1	17.3	<0.002	0.32	0.25	2.6	1	0.3	224	0.09	<0.05	1.6	0.040	0.12
K242076		350	3.2	3.2	<0.002	0.01	0.87	6.9	<1	0.2	487	0.12	<0.05	0.9	0.067	0.02
K242077		2480	2.8	34.9	<0.002	0.40	2.73	9.4	2	1.9	323	2.18	<0.05	3.7	0.848	0.29
K242106		730	1.9	36.9	<0.002	0.36	1.71	27.5	1	0.3	254	0.16	<0.05	0.9	0.187	0.38
K242107		1190	2.7	34.9	<0.002	0.01	1.86	4.6	<1	<0.2	381	<0.05	<0.05	<0.2	0.016	0.29
K242108		180	10.8	1.3	0.002	0.41	16.15	5.1	1	<0.2	730	0.11	<0.05	1.0	0.018	<0.02
K242109		470	11.9	5.3	<0.002	0.06	4280	1.1	2	0.3	65.7	<0.05	<0.05	0.8	0.015	0.13
K242110		20	18.1	7.6	<0.002	0.01	16.00	0.9	1	0.2	60.7	0.05	<0.05	0.7	0.026	0.13
K242111		50	49.1	4.4	0.002	0.01	4.72	1.0	1	0.2	47.1	<0.05	0.06	0.4	0.011	0.44
K242112		2410	12.6	61.4	0.003	0.63	26.1	25.1	2	1.5	124.5	1.81	<0.05	3.7	0.900	0.28
K242113		20	8.6	14.4	<0.002	0.01	3.27	2.1	<1	0.6	46.4	0.06	<0.05	1.4	0.033	0.68
K242114		30	20.6	11.6	<0.002	0.01	9.96	1.7	<1	0.4	82.0	0.06	0.06	1.2	0.030	0.38
K242115		30	5.9	11.0	<0.002	0.02	0.62	1.1	<1	0.3	82.3	0.05	<0.05	0.8	0.026	0.08
K242116		30	7.6	7.3	<0.002	<0.01	0.31	0.8	<1	0.2	110.5	<0.05	<0.05	0.5	0.015	0.09
K242117		90	21.3	11.1	<0.002	0.01	1.59	3.2	1	0.5	104.0	0.18	<0.05	1.5	0.100	0.85
K242118		830	3.1	28.5	<0.002	3.66	7.53	21.4	59	3.1	654	0.72	0.06	1.8	0.617	1.36
K242119		90	8.5	2.8	0.003	0.49	3.00	0.4	3	3.8	132.5	<0.05	<0.05	<0.2	<0.005	0.07
K242120		70	5.9	1.6	0.002	0.04	2.30	0.3	2	0.6	169.5	<0.05	<0.05	<0.2	<0.005	0.04
K242121		40	0.8	25.9	<0.002	0.02	0.07	1.5	2	0.4	153.5	0.09	<0.05	0.8	0.033	0.34
K242122		30	4.1	119.5	0.006	0.16	0.31	5.3	1	6.2	402	38.3	0.10	8.0	0.012	1.19
K242123		20	3.7	169.5	0.006	>10.0	0.70	14.9	29	3.5	30.7	20.9	1.48	4.0	<0.005	0.89
K242124		<10	7.3	421	0.002	1.62	1.17	1.2	1	390	4.3	23.8	0.07	18.9	<0.005	1.23
K242024		780	7.3	9.6	0.004	3.93	4.00	20.8	82	3.9	596	0.82	0.08	1.5	0.608	0.56
K242025		200	5.7	34.9	0.008	0.38	2.07	1.2	8	146.0	171.0	0.12	<0.05	0.5	0.025	0.28

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Project: ATAC Regional- Area L/K

**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Cu- OG62	Zn- OG62
		U	V	W	Y	Zn	Zr	Ag	Cu	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001
K242007		2.8	161	0.4	22.1	76	105.0			
K242008		6.0	13	0.4	5.1	>10000	3.1			2.38
K242009		4.2	13	0.3	5.5	>10000	3.3			4.70
K242010		0.1	47	0.4	7.9	248	6.9			
K242011		0.1	64	0.5	9.9	75	9.6			
K242012		2.0	10	0.8	14.0	413	169.5			
K242013		0.6	10	0.4	6.3	64	23.8			
K242014		1.3	30	0.4	10.8	36	64.3			
K242015		1.3	27	0.4	13.3	78	59.7			
K242016		1.5	107	1.1	32.6	28	51.2			
K242017		0.5	10	0.3	12.3	22	14.1			
K242018		0.4	5	0.2	2.4	157	3.4			
K242019		1.0	4	0.1	1.4	24	5.1			
K242020		0.7	6	0.2	2.2	82	6.2			
K242021		0.5	22	0.4	11.7	37	22.1			
K242022		0.6	10	0.3	5.8	17	14.7			
K242023		0.5	8	0.2	6.0	14	11.1			
K242076		0.2	32	0.1	6.2	17	13.9			
K242077		0.5	117	0.5	11.4	144	29.4			
K242106		0.1	205	0.2	7.1	97	13.1			
K242107		0.1	83	0.2	3.7	51	1.9			
K242108		0.4	6	0.2	16.9	26	14.7			
K242109		5.4	47	0.2	3.4	2180	5.9	1140	3.96	
K242110		1.2	12	0.2	2.0	54	6.8			
K242111		1.8	20	1.4	2.5	563	6.5			
K242112		0.5	206	0.4	15.1	127	36.0			
K242113		3.1	9	0.6	6.8	160	12.6			
K242114		0.9	8	0.2	5.3	189	13.3			
K242115		0.5	5	0.2	2.0	21	6.9			
K242116		0.3	3	0.1	2.0	24	3.9			
K242117		1.2	19	0.2	5.1	156	16.1			
K242118		0.4	121	0.5	13.6	70	25.0			
K242119		0.9	35	2.7	3.1	26	1.0			
K242120		2.9	23	0.8	2.9	20	1.0			
K242121		1.0	6	0.3	2.7	10	6.2			
K242122		6.6	2	24.5	4.2	44	23.4			
K242123		1.8	7	128.5	46.3	38	2.3			
K242124		4.4	1	18.5	29.6	13	30.0			
K242024		0.9	117	0.3	12.5	266	26.7			
K242025		1.9	510	0.3	6.6	45	13.1			





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Project: ATAC Regional- Area L/ K

**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242026		0.33	<0.01	0.06	0.16	5	60	1.43	0.11	23.3	0.10	6.27	1.4	6	0.26	5.3
K242027		0.36	<0.01	0.18	0.14	10	170	0.57	1.27	22.2	0.48	8.14	0.8	4	0.28	34.3
K242028		0.22	<0.01	0.20	0.05	6	90	0.09	1.66	22.2	6.23	4.14	1.4	2	0.18	4.5
K242029		0.34	<0.01	0.23	7.81	2.3	730	40.0	1.15	5.02	0.09	20.9	4.7	2	5.37	29.1
K242030		0.39	0.03	1.26	9.43	38.9	880	360	13.35	0.76	0.12	12.25	39.2	2	14.05	638
K242031		0.16	<0.01	0.51	21.7	0.9	1930	5.58	1.03	8.83	0.15	54.8	13.4	120	21.5	151.5
K242032		0.76	0.02	0.92	1.51	194.0	80	1.25	3600	0.19	0.35	9.20	32.1	5	19.40	1515

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Project: ATAC Regional- Area L/ K

**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K242026		0.47	1.66	0.17	0.1	<0.01	0.055	0.03	6.2	3.2	8.96	393	0.35	0.02	1.0	15.2
K242027		0.66	1.37	0.10	<0.1	<0.01	0.042	0.02	8.2	4.4	8.00	330	0.32	0.03	0.7	<0.2
K242028		0.23	0.92	0.38	<0.1	0.06	0.312	0.02	3.6	2.7	12.10	478	0.71	0.01	1.5	<0.2
K242029		1.14	46.1	0.19	2.5	<0.01	0.055	1.70	7.5	47.9	0.28	312	26.4	3.56	75.2	6.9
K242030		11.10	59.5	0.24	0.8	0.01	0.179	4.19	4.8	83.5	0.73	644	38.2	0.85	37.2	22.4
K242031		4.45	42.9	0.22	2.1	<0.01	0.034	3.30	16.9	47.0	6.12	41	6.56	0.27	37.5	65.5
K242032		36.0	12.75	0.74	0.1	<0.1	0.036	2.07	5.0	630	3.74	155	2.04	0.02	3.4	3.5

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**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K242026		200	5.2	2.6	0.003	0.11	1.23	1.1	3	30.9	201	0.08	<0.05	1.1	0.020	0.05
K242027		210	23.1	1.8	0.023	0.06	5.25	0.6	3	7.4	176.0	<0.05	<0.05	0.2	0.005	0.04
K242028		60	36.7	3.1	0.003	0.08	18.40	0.2	2	3.6	166.5	0.09	<0.05	<0.2	<0.005	0.04
K242029		20	4.3	123.0	0.002	0.01	0.28	5.1	1	5.9	381	55.0	<0.05	16.2	0.005	1.09
K242030		110	17.5	670	0.013	2.70	3.77	13.9	3	36.5	36.8	20.4	0.27	113.0	0.009	3.26
K242031		210	7.3	1500	0.010	2.41	0.46	7.6	3	30.4	325	2.42	0.08	10.4	0.935	3.45
K242032		30	16.3	377	0.013	>10.0	36.9	0.3	3	3.8	3.4	0.72	8.81	0.2	0.018	1.64

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**CERTIFICATE OF ANALYSIS WH12126841**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Cu- OG62	Zn- OG62
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Zn %
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001
K242026		11.4	195	23.0	6.1	28	3.9			
K242027		1.2	94	1.3	8.1	74	1.2			
K242028		1.8	28	1.3	3.3	776	0.7			
K242029		10.2	2	5.3	6.5	38	25.1			
K242030		10.1	5	920	10.7	156	8.5			
K242031		6.0	93	19.2	13.4	42	67.6			
K242032		1.4	11	5.3	3.4	19	3.8			

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**CERTIFICATE OF ANALYSIS WH12126841**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12126842**

Project: ATAC Regional- Area L  
 P.O. No.: Pit 1  
 This report is for 19 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH12126842**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
DD020997		0.69	0.01	0.75	1.77	43	1410	0.70	0.53	14.05	3.20	20.4	4.6	23	0.92	8.8
DD020998		0.36	<0.01	1.74	4.33	26.6	690	1.25	0.97	7.18	4.54	42.5	10.7	53	2.23	36.3
DD020999		0.42	<0.01	0.26	4.35	12	710	1.25	0.26	10.95	0.75	38.7	11.0	47	3.02	31.1
DD021000		0.14	<0.01	0.24	4.81	10	650	1.02	0.61	10.60	0.52	32.6	18.8	74	2.52	32.7
DD027001		0.45	<0.01	0.28	4.22	10	550	1.24	0.27	10.70	0.84	37.5	10.4	43	2.53	29.5
DD027002		0.52	<0.01	0.28	4.67	12.7	630	1.30	0.31	8.14	0.55	42.7	11.4	51	2.73	35.1
DD027005		0.52	<0.01	0.21	0.42	10	160	0.33	0.09	20.3	58.5	4.01	1.7	10	0.31	9.9
DD027006		0.38	<0.01	0.38	3.99	13	450	1.11	0.24	10.70	2.06	32.7	11.7	42	2.31	31.1
DD027009		0.45	0.01	1.40	0.39	144	120	0.24	0.41	18.10	46.2	4.29	2.3	10	0.33	32.7
Dd027011		0.34	<0.01	0.93	4.54	22.5	620	1.30	0.35	9.08	2.71	40.7	11.6	47	2.87	37.2
DD027013		0.50	<0.01	0.38	6.31	18.9	890	1.86	0.36	5.21	0.97	55.5	16.1	66	4.66	45.7
DD027014		0.34	<0.01	0.16	7.65	33.8	140	0.78	0.03	1.41	0.23	46.3	35.6	196	0.50	63.3
DD027051		0.35	<0.01	0.58	6.13	18.0	870	1.68	0.31	1.30	1.11	69.3	15.5	73	3.04	21.0
DD027052		0.59	<0.01	0.24	3.42	9	490	0.86	0.15	12.55	0.64	29.2	9.3	45	1.56	24.4
DD027053		0.50	<0.01	0.46	1.40	61	480	0.58	0.41	16.80	1.44	15.35	5.7	23	0.73	9.4
DD027054		0.32	<0.01	0.38	4.52	20.3	1410	1.36	0.51	7.48	1.89	42.3	12.8	71	2.22	31.8
DD027055		0.42	<0.01	0.24	1.54	9	310	0.41	0.37	17.55	0.55	14.30	5.7	24	0.67	14.2
DD027056		0.43	<0.01	0.29	4.90	12.6	640	1.26	0.26	9.37	0.82	42.0	12.4	58	3.60	33.4
DD027058		0.40	<0.01	0.18	8.23	60.5	130	0.70	0.10	1.00	0.18	78.2	51.3	291	0.24	55.0





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126842**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
DD020997		1.72	4.37	<0.05	0.6	0.06	0.259	0.38	10.1	10.2	8.61	446	3.42	0.28	4.2	7.3
DD020998		3.06	11.20	0.07	1.5	0.09	0.503	1.34	21.6	21.8	4.30	714	1.56	0.55	8.6	28.6
DD020999		2.87	11.50	<0.05	1.5	0.08	0.052	1.49	19.7	23.5	4.60	774	1.95	0.42	8.1	31.1
DD021000		3.46	12.75	0.05	1.3	0.05	0.049	1.44	16.6	24.4	4.43	764	1.50	0.99	9.3	69.0
DD027001		2.78	11.00	0.05	1.5	0.06	0.067	1.54	19.0	22.8	4.66	790	1.68	0.38	7.5	27.7
DD027002		3.12	12.10	0.07	1.7	0.07	0.060	1.55	21.3	21.2	4.34	884	1.75	0.50	11.9	34.7
DD027005		0.79	14.00	0.06	0.1	0.01	19.95	0.08	1.9	2.4	12.50	295	0.43	0.02	2.3	<0.2
DD027006		3.08	10.85	0.05	1.3	0.07	0.319	1.24	16.7	22.7	5.26	753	1.53	0.45	7.1	30.2
DD027009		2.95	1.51	<0.05	0.2	0.05	0.281	0.14	2.5	4.0	11.15	740	4.00	0.03	1.5	5.7
Dd027011		3.13	12.20	0.05	1.6	0.08	0.450	1.50	20.7	25.2	4.68	799	1.70	0.41	8.6	33.0
DD027013		4.08	17.75	0.15	2.2	0.09	0.076	2.09	27.8	33.6	2.82	1200	1.82	0.50	12.1	45.7
DD027014		7.74	20.6	0.22	1.0	0.01	0.068	0.12	23.2	47.2	3.25	770	0.59	3.29	7.7	105.5
DD027051		4.13	16.40	0.17	2.0	0.05	0.247	1.41	32.9	31.9	1.22	1180	1.74	0.88	12.8	36.3
DD027052		2.35	8.62	<0.05	1.1	0.04	0.051	1.13	14.8	17.1	5.81	656	1.40	0.43	6.1	23.6
DD027053		1.85	4.01	<0.05	0.5	0.03	0.052	0.40	8.1	8.7	10.55	778	1.30	0.21	3.8	14.6
DD027054		3.46	12.05	0.08	1.4	0.08	0.468	1.32	22.5	21.1	4.76	890	2.95	0.59	10.3	46.3
DD027055		1.21	3.89	<0.05	0.5	0.04	0.026	0.55	8.3	8.3	9.79	372	0.79	0.20	3.9	11.3
DD027056		3.15	13.40	0.08	1.7	0.10	0.054	1.67	21.8	24.1	3.91	805	2.16	0.39	9.2	36.5
DD027058		10.95	28.4	0.36	1.8	0.01	0.087	0.05	37.9	140.0	3.25	983	1.47	2.79	17.7	146.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126842**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
DD020997		300	118.0	21.7	0.002	0.09	3.57	4.1	2	2.2	79.2	0.28	<0.05	3.1	0.115	0.35
DD020998		780	528	60.5	<0.002	0.04	27.2	11.0	2	3.4	105.0	0.54	0.06	6.4	0.283	0.56
DD020999		630	30.0	67.7	0.002	0.02	1.97	10.7	2	1.4	140.5	0.49	<0.05	6.0	0.257	0.55
DD021000		660	22.8	56.2	0.002	0.02	1.62	12.9	2	1.2	181.5	0.54	0.11	4.9	0.391	0.42
DD027001		630	40.9	67.5	<0.002	0.02	2.67	10.4	2	1.5	130.5	0.48	<0.05	6.3	0.237	0.55
DD027002		720	35.4	70.0	<0.002	0.01	2.18	12.1	2	1.5	116.0	0.78	<0.05	6.9	0.280	0.54
DD027005		1300	470	4.1	<0.002	0.03	9.06	1.3	2	1.1	332	0.13	<0.05	0.5	0.016	0.10
DD027006		590	90.3	60.7	0.002	0.02	2.55	12.5	2	1.6	114.0	0.44	<0.05	5.2	0.265	0.49
DD027009		280	74.9	6.9	0.002	0.31	25.2	1.2	3	2.4	68.0	0.08	<0.05	0.6	0.024	0.26
Dd027011		710	370	71.2	<0.002	0.02	23.7	12.0	2	2.8	117.5	0.54	0.06	6.6	0.261	0.61
DD027013		800	45.4	104.5	<0.002	0.01	2.57	15.2	2	2.1	112.0	0.74	0.05	9.2	0.344	0.77
DD027014		1110	5.1	2.4	<0.002	0.02	1.10	23.6	2	0.4	171.5	0.36	<0.05	3.9	0.246	0.07
DD027051		280	200	73.1	<0.002	0.01	2.37	13.9	3	2.4	127.5	0.81	0.05	9.2	0.412	0.71
DD027052		500	24.1	49.3	<0.002	0.02	1.72	10.2	2	1.0	129.5	0.35	<0.05	4.5	0.207	0.47
DD027053		290	180.0	17.9	<0.002	0.05	4.32	3.9	2	1.1	200	0.22	<0.05	1.9	0.108	0.16
DD027054		550	280	55.7	<0.002	0.03	3.49	12.4	2	4.1	102.0	0.61	<0.05	6.2	0.326	0.68
DD027055		240	55.3	20.1	<0.002	0.02	1.12	4.9	2	0.5	114.0	0.23	<0.05	1.9	0.115	0.19
DD027056		680	32.6	80.5	<0.002	0.01	2.21	12.3	2	1.6	132.5	0.59	<0.05	7.0	0.272	0.61
DD027058		4550	4.7	0.5	0.002	0.01	1.92	27.6	3	0.4	134.0	0.86	<0.05	5.2	0.436	0.04





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126842**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
DD020997		2.2	48	1.0	6.6	1220	24.7
DD020998		2.6	115	1.2	15.5	969	57.7
DD020999		2.3	113	1.0	14.6	142	59.2
DD021000		3.5	109	0.9	15.2	119	48.2
DD027001		2.2	106	1.1	13.6	138	53.7
DD027002		2.1	121	1.2	15.6	128	60.7
DD027005		4.7	28	0.7	2.6	1560	5.0
DD027006		2.0	123	0.9	14.5	364	51.3
DD027009		5.0	34	0.6	2.6	3620	6.4
Dd027011		2.5	116	1.1	15.5	537	62.4
DD027013		2.4	153	1.5	20.3	197	86.7
DD027014		0.8	170	0.3	10.4	111	43.2
DD027051		2.8	147	1.5	19.2	363	79.7
DD027052		1.9	95	0.8	12.1	125	44.0
DD027053		0.6	58	1.9	6.3	357	18.3
DD027054		2.2	146	1.4	18.4	268	54.3
DD027055		1.1	42	0.7	10.0	95	18.9
DD027056		2.3	141	1.1	15.6	152	65.8
DD027058		2.3	213	0.8	20.4	160	79.8





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**CERTIFICATE OF ANALYSIS WH12126842**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. REE's may not be totally soluble in this method.





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**CERTIFICATE WH12126843**

Project: ATAC Regional- Area L  
 P.O. No.: Ocelot  
 This report is for 112 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018501		0.11	0.002	0.27	1.14	8.8	<0.2	<10	240	0.50	0.33	3.79	0.80	18.85	9.7	22
DD018503		0.13	0.001	0.21	0.87	6	<0.2	<10	240	0.27	0.29	15.25	0.76	12.20	6.8	17
DD018505		0.20	0.004	0.26	1.01	3.6	<0.2	<10	180	0.36	0.37	5.68	0.72	14.75	8.1	22
DD018507		0.21	0.002	0.22	0.93	8.3	<0.2	<10	150	0.33	0.28	6.34	0.68	13.45	8.8	19
DD018509		0.21	0.001	0.22	1.05	5.5	<0.2	<10	120	0.32	0.30	5.26	0.64	26.2	11.9	27
DD018511		0.23	0.001	0.30	1.35	11.4	<0.2	<10	200	0.45	0.38	4.22	0.78	26.9	11.6	24
DD018513		0.11	0.002	0.20	1.32	10.8	<0.2	<10	200	0.46	0.32	3.29	1.03	24.4	10.8	25
DD018515		0.13	0.004	0.22	1.44	12.4	<0.2	<10	220	0.47	0.38	1.25	0.51	27.6	11.7	30
DD018517		0.26	0.007	0.24	1.10	11.1	<0.2	<10	90	0.39	0.32	5.12	0.91	25.1	11.0	25
DD018519		0.16	0.002	0.24	1.25	11.8	<0.2	<10	230	0.46	0.34	4.32	0.98	28.2	12.2	25
DD018521		0.16	0.001	0.16	1.05	10.2	<0.2	<10	110	0.41	0.27	2.92	0.44	23.0	10.3	22
DD018523		0.24	0.003	0.26	1.09	7.7	<0.2	<10	160	0.41	0.37	4.39	0.61	23.7	10.4	21
DD018525		0.15	0.002	0.28	1.29	7.0	<0.2	<10	180	0.44	0.36	4.41	0.85	27.5	10.9	24
DD018527		0.10	0.002	0.20	1.05	8.1	<0.2	<10	190	0.36	0.25	3.75	0.98	20.3	10.3	24
DD018529		0.12	0.002	0.12	1.23	10.1	<0.2	<10	210	0.34	0.31	0.75	0.56	23.7	10.7	30
DD018531		0.20	0.002	0.21	1.18	9.0	<0.2	<10	190	0.40	0.28	1.14	0.67	25.6	12.0	30
DD018533		0.12	0.002	0.16	0.85	8.7	<0.2	<10	130	0.26	0.21	3.89	0.89	23.2	9.5	21
DD018535		0.15	0.004	0.20	0.94	8.5	<0.2	<10	150	0.32	0.22	4.88	0.72	27.1	9.2	23
DD018537		0.14	0.001	0.20	1.04	9.4	<0.2	<10	190	0.32	0.24	4.74	0.80	25.5	10.1	24
DD018539		0.16	0.003	0.21	1.29	9.8	<0.2	<10	180	0.45	0.27	0.90	1.28	26.7	9.1	30
DD018541		0.24	0.002	0.19	1.15	10.2	<0.2	<10	150	0.35	0.25	3.17	0.73	26.6	9.8	26
DD018543		0.14	0.001	0.19	1.11	10.1	<0.2	<10	210	0.38	0.26	1.76	0.73	23.9	10.4	26
DD018545		0.14	0.002	0.16	0.84	9.1	<0.2	<10	140	0.23	0.21	4.87	0.80	22.8	10.0	20
DD018547		0.25	<0.001	0.11	0.65	6	<0.2	<10	100	0.17	0.15	10.40	0.52	17.00	7.0	17
DD018549		0.21	0.001	0.15	0.80	6.1	<0.2	<10	140	0.21	0.20	6.03	0.98	20.5	8.9	21
DD018551		0.22	0.004	0.19	0.94	9.0	<0.2	<10	150	0.29	0.23	4.61	0.93	24.2	10.4	23
DD018553		0.16	0.003	0.22	1.04	11.5	<0.2	<10	210	0.32	0.24	4.18	1.08	25.8	12.6	25
DD018555		0.19	0.007	0.21	1.05	9.4	<0.2	<10	170	0.29	0.25	3.79	0.78	24.7	10.0	25
DD018557		0.22	0.003	0.19	0.89	8.7	<0.2	<10	190	0.26	0.23	5.72	1.21	23.0	9.5	21
DD018559		0.27	0.002	0.18	0.97	8.3	<0.2	<10	150	0.27	0.24	6.02	0.74	25.3	10.8	27
DD018561		0.15	0.002	0.21	1.02	8.5	<0.2	<10	150	0.31	0.25	5.20	0.79	25.5	11.4	28
DD018563		0.11	0.001	0.18	1.01	7.4	<0.2	<10	160	0.32	0.25	4.48	0.64	23.0	11.2	28
DD018565		0.20	0.001	0.17	0.99	6.8	<0.2	<10	150	0.26	0.27	6.54	0.65	23.7	11.0	29
DD018567		0.21	0.002	0.18	1.06	9.0	<0.2	<10	130	0.43	0.23	5.33	0.58	25.4	11.2	31
DD018569		0.25	0.002	1.08	0.99	8.8	<0.2	<10	380	0.50	0.26	4.17	1.44	15.45	8.3	17
DD018571		0.14	<0.001	0.18	1.53	12.0	<0.2	<10	480	0.67	0.33	2.73	1.76	17.15	9.4	22
DD018573		0.23	0.001	0.24	0.94	9.2	<0.2	<10	170	0.41	0.22	8.30	0.74	19.85	9.0	17
DD018575		0.16	<0.001	0.25	1.71	13.6	<0.2	<10	440	0.84	0.35	1.62	1.52	22.1	11.5	27
DD018577		0.20	0.002	0.24	1.03	7.0	<0.2	<10	180	0.44	0.22	5.13	0.81	23.3	10.4	25
DD018579		0.16	0.001	0.17	1.13	9.1	<0.2	<10	160	0.44	0.24	4.73	0.70	24.2	11.7	31





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**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD018501		0.72	31.6	2.58	2.96	<0.05	0.05	0.06	0.031	0.08	9.1	13.1	2.25	488	1.80	0.01
DD018503		0.90	23.9	1.56	2.55	0.07	0.06	0.06	0.034	0.08	6.4	10.3	2.04	226	1.85	0.02
DD018505		0.93	33.4	1.75	2.91	0.08	0.06	0.07	0.038	0.09	7.5	12.5	3.01	235	4.85	0.02
DD018507		0.83	28.7	1.78	2.73	0.08	0.06	0.06	0.036	0.09	6.8	12.5	3.79	275	2.21	0.02
DD018509		0.78	30.4	2.26	3.41	0.09	0.07	0.06	0.035	0.07	13.1	14.1	3.62	301	0.99	0.02
DD018511		1.09	34.8	2.99	4.03	0.09	0.08	0.07	0.046	0.12	13.8	14.4	2.77	706	1.33	0.01
DD018513		0.81	29.0	2.93	3.98	0.08	0.06	0.06	0.039	0.09	12.5	14.2	2.03	591	1.76	0.02
DD018515		0.84	23.9	3.32	4.35	0.10	0.06	0.06	0.044	0.11	14.1	15.9	0.98	598	1.83	0.01
DD018517		0.66	37.4	2.99	3.39	0.10	0.07	0.10	0.038	0.05	13.7	11.7	3.36	881	1.97	0.01
DD018519		0.94	36.0	3.06	3.85	0.09	0.07	0.08	0.043	0.10	14.4	12.5	2.65	809	2.05	0.01
DD018521		0.44	29.6	2.57	3.19	0.08	0.06	0.08	0.033	0.06	12.3	11.1	1.92	641	1.87	0.01
DD018523		0.82	43.0	2.45	3.39	0.08	0.07	0.08	0.042	0.08	12.0	12.6	2.86	742	1.44	0.01
DD018525		1.16	37.6	2.58	3.82	0.09	0.08	0.08	0.044	0.11	13.9	15.5	2.99	341	1.04	0.02
DD018527		0.79	26.2	2.44	3.39	0.08	0.05	0.07	0.035	0.07	10.3	12.2	2.04	689	1.21	0.01
DD018529		0.68	15.6	2.79	3.98	0.08	0.05	0.05	0.039	0.05	12.0	14.6	0.69	397	1.26	0.01
DD018531		0.95	23.6	2.80	3.92	0.09	0.05	0.06	0.037	0.06	12.9	14.1	0.77	620	0.89	0.01
DD018533		0.68	17.4	2.20	2.77	0.08	0.05	0.05	0.032	0.05	11.8	10.0	2.65	614	1.34	0.01
DD018535		0.73	26.5	2.30	2.98	0.08	0.06	0.13	0.032	0.06	13.7	10.4	3.23	554	1.31	0.02
DD018537		0.66	28.0	2.48	3.33	0.07	0.05	0.05	0.037	0.06	12.9	10.7	3.05	641	1.55	0.02
DD018539		0.90	22.1	2.85	3.88	0.09	0.05	0.06	0.035	0.05	14.2	13.4	0.68	399	1.24	0.01
DD018541		0.93	24.8	2.70	3.70	0.08	0.05	0.06	0.037	0.05	13.7	12.2	2.19	454	1.49	0.02
DD018543		1.38	28.4	2.77	3.43	0.08	0.04	0.07	0.034	0.05	12.1	12.3	0.87	909	1.23	0.02
DD018545		1.53	23.4	2.23	2.76	0.08	0.05	0.04	0.029	0.05	11.5	10.2	3.19	543	1.68	0.02
DD018547		0.76	15.3	1.63	2.17	0.07	0.06	0.03	0.021	0.04	8.9	7.7	5.33	379	0.99	0.02
DD018549		1.25	24.0	2.08	2.58	0.08	0.05	0.05	0.025	0.05	10.6	11.0	3.77	439	1.15	0.02
DD018551		1.86	27.3	2.38	3.03	0.08	0.05	0.05	0.032	0.06	12.2	11.6	3.02	576	1.41	0.02
DD018553		1.54	30.3	2.65	3.38	0.08	0.06	0.06	0.034	0.06	12.9	13.1	2.78	1570	1.66	0.02
DD018555		1.52	28.6	2.54	3.32	0.07	0.05	0.06	0.033	0.06	12.5	12.4	2.61	520	1.45	0.02
DD018557		1.81	25.7	2.31	2.83	0.07	0.06	0.06	0.031	0.06	11.6	11.1	3.50	723	1.25	0.02
DD018559		0.90	28.0	2.53	3.14	0.08	0.06	0.05	0.029	0.06	12.8	11.2	3.87	813	1.76	0.02
DD018561		0.87	31.1	2.50	3.39	0.08	0.06	0.06	0.033	0.06	12.8	11.6	3.62	701	1.52	0.02
DD018563		0.71	24.3	2.46	3.40	0.09	0.06	0.05	0.028	0.05	11.7	11.7	2.92	802	1.04	0.02
DD018565		0.75	26.6	2.46	3.13	0.08	0.07	0.05	0.029	0.05	12.2	11.8	3.71	808	1.18	0.02
DD018567		0.64	26.4	2.64	3.34	0.06	0.07	0.03	0.026	0.06	13.8	14.1	3.57	644	1.14	0.02
DD018569		0.65	41.8	2.26	2.51	<0.05	0.03	0.08	0.029	0.07	7.0	8.6	1.22	1080	1.28	0.02
DD018571		0.95	38.5	2.98	3.96	0.05	0.07	0.12	0.037	0.14	8.5	14.5	0.80	619	1.59	0.02
DD018573		0.72	29.6	2.27	2.48	<0.05	0.05	0.06	0.027	0.08	9.2	11.0	4.23	786	1.07	0.02
DD018575		1.07	43.6	3.60	4.66	0.05	0.07	0.09	0.038	0.14	10.6	20.5	0.81	690	1.85	0.02
DD018577		0.82	36.2	1.99	2.96	0.06	0.06	0.06	0.027	0.05	11.4	13.7	3.27	277	0.95	0.02
DD018579		0.76	29.1	2.79	3.29	0.05	0.04	0.06	0.022	0.05	12.5	13.8	3.10	703	1.12	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD018501		0.39	26.4	790	29.2	8.6	0.002	0.10	1.02	3.2	2.1	0.3	46.5	<0.01	0.04	2.0
DD018503		0.54	16.4	540	19.4	15.5	0.002	0.41	0.62	2.6	3.1	0.3	169.5	<0.01	0.02	1.4
DD018505		0.46	20.9	670	25.7	16.1	0.014	0.83	0.87	3.1	7.7	0.3	66.0	<0.01	0.02	1.8
DD018507		0.36	23.1	590	28.4	12.8	0.009	0.63	0.70	3.0	6.1	0.3	59.7	<0.01	0.02	2.3
DD018509		1.46	27.8	890	27.2	9.6	0.001	0.02	0.83	3.4	1.2	0.3	54.0	<0.01	0.03	3.2
DD018511		0.56	31.1	840	33.7	11.2	<0.001	0.02	1.27	3.4	0.8	0.4	41.5	<0.01	0.04	2.6
DD018513		0.80	32.5	760	25.8	9.8	<0.001	0.03	1.23	3.4	0.9	0.4	50.4	<0.01	0.03	2.3
DD018515		0.77	32.4	590	30.2	12.3	<0.001	0.03	1.15	3.2	0.9	0.4	22.4	<0.01	0.04	2.3
DD018517		0.93	29.8	1030	24.1	6.1	<0.001	0.04	1.39	3.5	1.0	0.3	41.6	0.01	0.03	1.7
DD018519		0.68	34.8	750	32.6	9.9	<0.001	0.02	1.63	3.2	0.8	0.4	43.4	<0.01	0.04	3.0
DD018521		0.67	32.8	750	23.4	6.5	<0.001	0.02	1.15	2.7	0.7	0.3	30.2	<0.01	0.03	2.1
DD018523		0.60	29.3	800	26.4	10.2	<0.001	0.03	1.17	3.3	1.1	0.3	35.8	<0.01	0.03	2.5
DD018525		0.54	28.0	730	33.6	14.3	0.001	0.03	1.10	3.9	2.9	0.4	37.0	<0.01	0.03	3.8
DD018527		0.86	27.0	950	24.4	8.5	0.001	0.06	1.06	2.3	2.1	0.3	64.8	<0.01	0.04	1.6
DD018529		0.91	24.6	580	27.3	6.2	<0.001	0.03	0.86	2.9	0.9	0.4	17.5	<0.01	0.04	2.1
DD018531		1.18	30.8	890	27.7	7.4	0.001	0.04	0.89	2.8	0.8	0.3	23.3	<0.01	0.04	2.0
DD018533		1.01	25.0	1010	23.1	5.6	<0.001	0.02	1.03	2.2	0.6	0.3	33.3	<0.01	0.03	2.6
DD018535		1.16	27.9	1000	23.3	6.3	<0.001	0.01	1.04	2.7	0.6	0.3	42.6	<0.01	0.03	3.2
DD018537		1.02	29.4	1000	25.8	6.0	<0.001	0.01	1.09	2.8	0.6	0.3	44.5	<0.01	0.03	2.7
DD018539		0.88	27.5	1090	25.0	7.3	<0.001	0.04	0.81	2.6	1.5	0.4	24.0	<0.01	0.04	1.6
DD018541		1.09	29.3	890	22.9	7.2	<0.001	0.02	1.07	2.7	0.9	0.3	30.5	<0.01	0.03	2.1
DD018543		0.96	30.9	970	25.2	7.2	0.001	0.07	1.09	2.3	1.8	0.3	36.2	<0.01	0.04	1.4
DD018545		1.16	27.0	1010	20.6	6.2	0.002	0.05	1.06	2.1	1.3	0.2	60.0	<0.01	0.03	2.2
DD018547		1.03	18.1	730	14.9	3.8	0.001	0.02	0.80	1.9	0.7	0.2	80.9	<0.01	0.02	2.0
DD018549		1.07	24.7	990	18.7	6.0	0.001	0.05	0.97	2.2	1.3	0.2	59.2	<0.01	0.03	2.1
DD018551		1.07	28.4	980	22.7	7.8	0.001	0.04	1.01	2.4	1.2	0.3	52.0	<0.01	0.03	2.3
DD018553		1.05	32.3	1040	24.3	8.5	0.001	0.04	1.08	2.6	1.3	0.3	46.2	<0.01	0.03	2.5
DD018555		1.10	27.8	1020	24.6	6.7	0.001	0.05	1.04	2.6	1.4	0.3	38.2	<0.01	0.03	2.8
DD018557		1.01	26.3	950	23.3	8.6	0.001	0.04	1.05	2.5	1.2	0.3	65.0	<0.01	0.03	2.4
DD018559		1.57	28.0	940	22.4	6.5	0.001	0.03	1.06	2.6	0.8	0.5	62.3	<0.01	0.03	2.7
DD018561		1.55	29.4	980	24.8	6.3	0.001	0.03	1.03	2.9	1.0	0.3	49.1	<0.01	0.03	2.7
DD018563		1.64	26.1	1000	21.8	5.5	0.001	0.06	0.81	2.3	1.0	0.2	49.1	<0.01	0.03	2.1
DD018565		1.83	26.9	960	22.0	5.9	0.001	0.03	0.90	2.6	1.0	0.2	64.6	<0.01	0.02	2.3
DD018567		1.60	31.0	940	24.5	4.5	0.002	0.04	0.98	3.0	1.0	0.3	50.0	<0.01	0.05	2.1
DD018569		0.29	23.3	960	30.1	7.5	<0.001	0.12	1.25	1.3	1.6	0.3	43.5	<0.01	0.03	0.4
DD018571		0.38	28.6	730	29.0	11.7	<0.001	0.09	1.72	2.5	1.1	0.4	38.2	<0.01	0.04	0.8
DD018573		0.30	26.3	680	29.4	5.5	<0.001	0.03	1.35	2.8	0.8	0.2	61.0	<0.01	0.03	2.1
DD018575		0.41	33.9	560	38.6	13.0	0.001	0.06	1.94	3.4	0.8	0.5	24.7	<0.01	0.05	1.3
DD018577		1.07	32.0	910	27.6	5.3	0.001	0.06	1.26	3.1	1.3	0.3	43.4	<0.01	0.03	2.1
DD018579		1.59	32.4	920	25.1	4.9	0.001	0.05	1.09	2.9	1.2	0.2	40.0	<0.01	0.02	1.9





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**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018501		0.015	0.11	1.04	36	0.11	8.18	178	1.7
DD018503		0.016	0.08	1.85	23	0.09	8.36	489	1.8
DD018505		0.017	0.10	6.21	28	0.07	9.69	156	1.9
DD018507		0.013	0.12	1.71	29	0.11	8.15	136	2.1
DD018509		0.051	0.09	0.64	38	0.17	9.74	144	2.4
DD018511		0.020	0.15	0.70	43	0.17	10.50	184	2.3
DD018513		0.024	0.16	0.91	45	0.22	9.95	180	2.0
DD018515		0.026	0.12	0.90	49	0.19	8.53	218	1.8
DD018517		0.033	0.12	0.96	42	0.29	15.95	121	1.9
DD018519		0.026	0.14	0.64	44	0.26	10.05	186	2.2
DD018521		0.023	0.09	0.57	39	0.22	9.79	133	1.8
DD018523		0.020	0.12	0.70	37	0.16	11.20	156	2.1
DD018525		0.019	0.13	0.74	41	0.15	10.40	189	2.8
DD018527		0.028	0.10	1.33	39	0.16	7.82	164	1.6
DD018529		0.029	0.09	0.62	48	0.29	5.42	171	1.2
DD018531		0.038	0.10	0.73	44	0.24	7.92	190	1.4
DD018533		0.037	0.08	0.69	35	0.21	7.23	151	1.6
DD018535		0.046	0.08	0.64	39	0.25	8.89	139	1.9
DD018537		0.039	0.09	0.65	40	0.28	8.89	157	1.6
DD018539		0.034	0.09	1.23	48	0.33	8.81	160	1.1
DD018541		0.041	0.09	0.98	43	0.20	9.05	135	1.4
DD018543		0.031	0.10	1.27	41	0.22	7.94	136	1.2
DD018545		0.037	0.08	0.96	33	0.25	7.65	154	1.8
DD018547		0.046	0.06	0.72	27	0.11	7.19	94	2.1
DD018549		0.041	0.07	0.89	31	0.19	7.45	153	1.6
DD018551		0.038	0.10	0.94	35	0.63	8.04	176	1.5
DD018553		0.038	0.10	0.79	38	0.20	8.53	163	1.6
DD018555		0.039	0.10	0.73	38	0.53	8.37	152	1.6
DD018557		0.035	0.09	0.82	33	0.20	8.16	159	1.7
DD018559		0.058	0.10	0.75	37	0.18	9.08	125	1.9
DD018561		0.056	0.10	0.71	38	0.18	9.31	134	2.0
DD018563		0.053	0.08	0.88	37	0.14	8.18	137	1.9
DD018565		0.063	0.09	0.74	38	0.21	8.74	110	2.1
DD018567		0.065	0.08	0.68	40	0.11	8.01	127	1.7
DD018569		0.010	0.11	2.02	30	0.10	7.26	154	1.0
DD018571		0.011	0.12	1.26	43	0.13	5.90	205	1.5
DD018573		0.017	0.10	0.60	32	0.12	7.34	121	1.5
DD018575		0.012	0.16	1.24	52	0.15	7.90	215	1.6
DD018577		0.042	0.08	0.80	37	0.16	8.20	133	1.5
DD018579		0.060	0.08	0.74	40	0.13	7.82	133	1.5





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**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018581		0.17	0.003	0.17	0.96	4.5	<0.2	<10	130	0.31	0.21	5.61	0.57	22.1	10.0	24
DD018583		0.29	0.003	0.16	0.96	8.1	<0.2	<10	140	0.37	0.22	5.89	0.49	24.1	9.8	27
DD018585		0.12	0.002	0.24	1.26	11.3	<0.2	<10	220	0.54	0.26	2.57	0.79	26.3	13.3	34
DD018587		0.22	0.002	0.17	0.97	7.9	<0.2	<10	110	0.39	0.22	6.89	0.49	24.8	9.9	29
DD018589		0.21	0.002	0.15	0.99	2.3	<0.2	<10	120	0.37	0.24	6.01	0.54	24.4	9.2	29
DD018591		0.35	0.002	0.23	1.11	8.8	<0.2	<10	140	0.44	0.24	4.98	0.57	26.2	11.1	31
DD018593		0.16	0.002	0.18	0.98	7.1	<0.2	<10	150	0.36	0.20	5.91	0.53	23.9	10.1	27
DD018595		0.32	0.001	0.22	1.07	6.8	<0.2	<10	180	0.41	0.29	5.63	0.62	24.8	10.9	29
DD018597		0.23	<0.001	0.11	0.50	2	<0.2	<10	160	0.22	0.15	22.2	0.49	6.92	3.6	9
DD018599		0.34	0.001	0.15	0.85	5.9	<0.2	<10	90	0.37	0.29	7.04	0.29	21.0	7.9	15
DD018601		0.18	0.001	0.20	0.85	10.0	<0.2	<10	180	0.43	0.24	6.84	0.60	16.90	7.9	16
DD018603		0.23	0.002	0.23	1.10	11.2	<0.2	<10	200	0.46	0.29	6.10	0.60	20.9	9.3	19
DD018605		0.23	0.001	0.22	1.03	12.2	<0.2	<10	170	0.45	0.25	6.11	0.76	21.9	9.4	18
DD018607		0.16	<0.001	0.16	0.77	8.7	<0.2	<10	150	0.36	0.19	7.50	0.49	18.65	7.0	14
DD018609		0.37	0.002	0.28	1.24	13.0	<0.2	<10	240	0.59	0.29	6.79	0.73	24.6	10.7	20
DD018611		0.24	<0.001	0.06	1.69	9.3	<0.2	<10	310	0.61	0.29	1.54	1.24	22.0	9.2	27
DD018613		0.16	0.003	0.18	0.85	9.9	<0.2	<10	170	0.42	0.21	7.39	0.85	18.85	7.5	15
DD018615		0.17	0.003	0.17	0.95	9.0	<0.2	<10	170	0.38	0.18	3.39	0.91	21.9	9.0	23
DD018617		0.25	0.001	0.18	0.99	10.5	<0.2	<10	140	0.37	0.17	4.12	0.60	24.8	9.4	24
DD018619		0.11	0.004	0.22	1.05	11.2	<0.2	<10	190	0.39	0.22	2.68	1.03	26.0	10.5	25
DD018621		0.14	<0.001	0.14	1.71	8.6	<0.2	<10	290	0.73	0.27	1.62	1.66	25.6	8.5	30
DD018623		0.22	0.001	0.18	1.41	8.9	<0.2	<10	240	0.56	0.27	2.34	1.41	23.4	10.4	25
DD018625		0.19	0.002	0.17	1.04	8.8	<0.2	<10	140	0.38	0.19	4.22	0.74	23.9	10.8	30
DD018627		0.13	0.001	0.16	0.98	8.1	<0.2	<10	120	0.34	0.21	5.60	0.51	23.0	10.6	27
DD018629		0.11	0.002	0.21	1.07	12.4	<0.2	<10	200	0.48	0.21	4.06	0.87	22.9	10.4	28
DD018631		0.08	0.010	0.27	1.41	12.3	<0.2	<10	280	0.53	0.28	2.74	1.13	21.9	13.1	34
DD018633		0.28	0.004	0.27	1.26	9.5	<0.2	<10	230	0.59	0.29	4.53	0.77	26.8	11.2	23
DD018635		0.18	0.003	0.20	1.64	13.1	<0.2	<10	240	0.76	0.35	0.75	0.47	36.3	13.6	29
DD018637		0.16	0.004	0.30	1.43	12.3	<0.2	<10	200	0.76	0.31	2.88	0.69	32.3	11.9	25
DD018639		0.15	0.001	0.32	1.31	7.6	<0.2	<10	200	0.49	0.32	4.16	0.81	24.9	9.5	23
DD018641		0.11	0.003	0.25	1.49	9.9	<0.2	<10	240	0.71	0.39	1.42	0.93	26.3	11.0	26
DD018643		0.20	0.002	0.29	1.27	8.9	<0.2	<10	160	0.50	0.34	5.53	0.72	27.2	10.8	23
DD018645		0.16	0.003	0.22	0.97	6.0	<0.2	<10	160	0.38	0.21	5.46	0.72	20.3	9.1	23
DD018647		0.12	0.004	0.22	0.91	9.2	<0.2	<10	160	0.34	0.25	5.07	0.59	23.9	9.7	24
DD018649		0.19	0.002	0.12	0.87	8.4	<0.2	<10	150	0.29	0.22	7.07	0.55	21.4	10.3	24
DD018651		0.13	0.003	0.19	0.94	11.6	<0.2	<10	180	0.32	0.22	4.69	0.75	22.2	10.8	23
DD018653		0.22	0.004	0.17	0.87	10.2	<0.2	<10	150	0.31	0.21	5.76	0.70	24.6	10.6	23
DD018655		0.20	0.040	0.15	0.91	8.5	<0.2	<10	150	0.37	0.28	7.86	0.48	21.7	10.2	23
DD018657		0.21	0.001	0.11	0.82	7.7	<0.2	<10	120	0.28	0.18	6.56	0.51	21.7	8.5	21
DD018659		0.19	0.002	0.25	1.19	7.6	<0.2	<10	170	0.49	0.28	3.80	1.06	28.4	10.5	30





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD018581		0.71	26.7	1.92	2.68	0.06	0.04	0.09	0.024	0.05	10.4	12.0	3.64	294	0.87	0.02
DD018583		0.66	25.6	2.48	2.85	0.06	0.05	0.06	0.022	0.06	12.8	12.4	3.94	662	1.13	0.02
DD018585		1.04	35.2	3.15	3.75	0.06	0.05	0.07	0.028	0.07	12.7	15.6	1.71	1080	1.67	0.02
DD018587		0.60	26.7	2.48	3.01	0.06	0.08	0.05	0.023	0.06	12.4	12.6	4.71	466	1.22	0.02
DD018589		0.69	26.6	1.77	3.06	0.06	0.07	0.05	0.021	0.06	11.8	13.8	4.19	328	0.34	0.02
DD018591		0.70	30.5	2.68	3.31	0.05	0.06	0.07	0.027	0.06	13.7	13.9	3.36	600	1.59	0.02
DD018593		0.60	24.8	2.39	2.93	0.06	0.06	0.05	0.020	0.05	11.8	12.4	3.96	569	1.17	0.02
DD018595		0.72	31.2	2.50	3.14	0.07	0.07	0.05	0.030	0.07	12.0	13.7	3.33	574	1.16	0.02
DD018597		0.40	13.3	1.03	1.28	<0.05	0.05	0.06	0.014	0.05	3.7	6.0	1.50	283	0.56	0.03
DD018599		0.59	25.5	2.07	2.42	0.05	0.05	0.01	0.025	0.07	9.8	11.0	3.95	625	1.05	0.02
DD018601		0.65	27.2	2.28	2.32	<0.05	0.06	0.05	0.033	0.07	8.0	10.8	3.24	457	1.09	0.02
DD018603		0.68	27.6	2.59	2.94	0.05	0.06	0.04	0.035	0.09	9.8	12.2	3.36	680	1.32	0.02
DD018605		0.73	27.5	2.53	2.83	<0.05	0.06	0.01	0.033	0.08	10.0	12.2	3.84	672	1.22	0.02
DD018607		0.58	21.5	1.89	2.16	<0.05	0.05	0.04	0.023	0.06	8.4	9.7	4.35	415	0.85	0.02
DD018609		0.90	39.1	2.86	3.29	0.05	0.06	0.04	0.032	0.11	12.6	13.9	3.64	732	1.25	0.02
DD018611		0.85	17.9	3.24	4.48	<0.05	0.04	0.01	0.039	0.08	9.7	30.9	0.90	682	1.53	0.02
DD018613		0.70	25.8	2.12	2.36	0.05	0.04	0.03	0.028	0.08	9.2	10.3	4.15	600	1.13	0.02
DD018615		1.19	25.8	2.40	2.57	<0.05	0.04	0.04	0.025	0.05	10.4	10.9	1.95	754	1.21	0.02
DD018617		0.75	23.8	2.50	2.85	<0.05	0.05	0.01	0.026	0.05	13.2	11.3	2.72	661	1.53	0.02
DD018619		0.84	25.3	2.67	3.01	0.06	0.04	0.03	0.027	0.05	13.7	11.6	1.75	1040	1.55	0.02
DD018621		1.01	22.7	2.99	5.04	<0.05	0.04	0.03	0.038	0.04	13.8	12.5	0.91	469	1.78	0.02
DD018623		0.76	18.1	2.98	3.69	<0.05	0.03	0.04	0.034	0.05	11.3	11.9	1.17	1230	1.30	0.02
DD018625		0.79	26.9	2.59	3.15	0.05	0.05	0.02	0.024	0.06	12.3	12.8	2.72	704	1.11	0.02
DD018627		0.60	24.4	2.42	2.89	0.06	0.05	<0.01	0.024	0.06	11.7	12.3	3.40	649	1.00	0.02
DD018629		1.00	28.4	3.24	3.12	<0.05	0.05	0.03	0.027	0.07	11.1	13.4	2.50	592	1.49	0.02
DD018631		1.42	36.2	3.30	3.73	<0.05	0.05	0.05	0.031	0.10	10.6	16.5	1.58	1580	1.66	0.03
DD018633		0.94	39.6	2.86	3.45	0.05	0.06	0.08	0.034	0.10	13.6	14.8	2.84	856	1.51	0.02
DD018635		0.84	25.7	3.75	4.56	0.05	0.07	0.03	0.045	0.12	17.3	18.4	0.83	765	1.60	0.02
DD018637		1.00	38.6	3.02	3.99	0.05	0.07	0.05	0.036	0.11	16.5	16.6	2.04	498	1.02	0.02
DD018639		0.89	29.5	2.56	3.48	0.10	0.06	0.07	0.037	0.10	11.3	12.8	2.45	468	1.03	0.02
DD018641		0.83	33.2	3.08	4.12	0.12	0.06	0.09	0.044	0.09	12.5	14.9	0.76	523	1.33	0.02
DD018643		1.10	36.0	2.75	3.74	0.11	0.08	0.07	0.037	0.10	12.6	13.0	3.19	778	1.47	0.02
DD018645		0.90	26.1	1.93	2.93	0.13	0.05	0.05	0.029	0.08	9.9	11.3	3.44	376	1.00	0.02
DD018647		0.76	29.7	2.37	2.83	0.11	0.06	0.07	0.034	0.05	10.9	10.5	3.17	650	1.34	0.02
DD018649		0.60	27.1	2.26	2.74	0.12	0.06	0.04	0.022	0.05	9.8	10.3	3.82	707	1.16	0.02
DD018651		1.00	28.6	2.46	2.91	0.11	0.05	0.07	0.028	0.06	9.9	10.8	2.95	1320	1.74	0.02
DD018653		0.61	30.4	2.34	2.75	0.11	0.05	0.06	0.028	0.04	11.1	10.5	3.69	728	1.96	0.02
DD018655		0.59	25.0	2.43	2.83	0.12	0.06	0.05	0.026	0.05	9.8	10.7	4.27	743	1.17	0.02
DD018657		0.66	18.4	2.15	2.55	0.12	0.05	0.02	0.025	0.04	9.5	10.0	4.26	650	1.30	0.02
DD018659		1.42	35.6	2.46	3.99	0.13	0.05	0.07	0.044	0.07	12.9	15.8	2.55	255	1.03	0.02





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD018581		1.19	29.1	880	23.2	4.7	0.002	0.05	1.11	2.6	0.6	0.2	36.3	<0.01	0.02	2.3
DD018583		1.71	28.2	990	21.7	5.1	0.002	0.03	0.93	2.7	0.7	0.2	49.3	<0.01	0.02	2.2
DD018585		1.33	37.4	930	28.5	6.7	0.002	0.07	1.22	3.1	1.3	0.3	38.0	<0.01	0.01	1.9
DD018587		1.66	29.3	960	21.1	4.8	<0.001	0.02	0.96	2.8	0.4	0.2	51.5	<0.01	0.03	2.4
DD018589		1.86	26.4	880	22.7	5.3	<0.001	0.04	0.60	2.9	0.9	0.2	48.6	<0.01	0.01	2.4
DD018591		1.58	31.9	960	26.8	6.2	<0.001	0.04	0.93	3.2	1.0	0.3	44.0	<0.01	0.02	2.2
DD018593		1.62	27.2	980	23.5	6.7	0.001	0.04	0.82	2.8	0.9	0.2	49.0	<0.01	0.04	2.1
DD018595		1.42	30.0	900	27.1	9.9	0.005	0.09	0.60	3.3	3.8	0.3	50.2	<0.01	0.05	2.5
DD018597		0.28	9.6	420	8.5	5.9	0.001	0.09	0.47	1.6	0.7	<0.2	253	<0.01	0.01	0.7
DD018599		0.47	20.4	630	16.5	7.9	<0.001	0.02	0.87	2.7	0.8	0.2	54.6	<0.01	0.03	2.1
DD018601		0.28	23.1	660	29.6	8.1	0.001	0.07	1.16	2.5	1.3	0.3	77.4	<0.01	0.03	1.5
DD018603		0.31	26.1	700	31.7	7.7	<0.001	0.04	1.26	2.9	1.0	0.4	53.7	<0.01	0.03	1.6
DD018605		0.32	27.2	730	32.7	6.5	<0.001	0.03	1.37	2.9	<0.2	0.3	44.6	<0.01	0.04	1.9
DD018607		0.31	19.7	650	24.3	4.4	0.001	0.03	0.99	2.4	0.4	0.2	45.2	<0.01	0.02	1.7
DD018609		0.36	29.6	700	32.6	8.3	0.001	0.03	1.67	3.6	0.9	0.3	61.3	<0.01	0.03	2.2
DD018611		0.93	23.2	450	26.2	9.6	<0.001	0.04	0.96	2.8	0.4	0.6	22.2	<0.01	0.03	1.2
DD018613		0.31	22.4	730	24.2	5.8	0.001	0.04	1.36	2.3	0.2	0.3	57.9	<0.01	0.04	1.4
DD018615		0.81	27.9	1000	22.2	4.9	0.002	0.06	1.20	2.1	1.0	0.3	35.9	<0.01	0.04	1.3
DD018617		1.07	30.0	1090	24.4	4.9	<0.001	0.02	1.21	2.5	0.9	0.3	33.2	<0.01	0.04	2.0
DD018619		0.88	32.5	1060	28.0	6.1	<0.001	0.02	1.06	2.7	0.4	0.3	27.2	<0.01	0.03	1.9
DD018621		0.83	26.6	530	31.7	7.3	0.001	0.03	0.78	3.8	0.9	0.5	17.4	<0.01	0.04	1.3
DD018623		0.55	23.0	710	29.5	6.2	0.001	0.05	0.70	2.4	1.1	0.4	20.7	<0.01	0.03	0.9
DD018625		1.66	30.2	990	22.6	5.1	0.001	0.05	0.93	2.5	1.0	0.2	38.4	<0.01	0.02	1.8
DD018627		1.65	28.8	860	22.2	5.6	0.001	0.04	0.95	2.6	0.9	0.2	49.0	<0.01	0.03	1.8
DD018629		1.08	32.2	1000	26.4	6.4	0.004	0.09	1.14	2.7	0.7	0.3	46.4	<0.01	0.06	1.7
DD018631		0.67	40.2	910	33.5	8.6	0.001	0.09	1.37	2.6	2.0	0.3	40.5	<0.01	0.05	1.3
DD018633		0.42	31.3	790	34.9	10.9	0.001	0.05	1.29	3.8	1.6	0.3	31.5	<0.01	0.05	2.1
DD018635		0.40	32.1	450	44.5	11.6	<0.001	0.03	1.31	4.0	1.1	0.4	16.3	<0.01	0.07	2.3
DD018637		0.43	33.7	800	43.0	10.4	<0.001	0.03	1.28	4.3	0.8	0.4	26.4	<0.01	0.04	3.1
DD018639		0.44	25.1	890	30.4	10.0	0.001	0.06	0.77	3.4	0.7	0.3	35.9	<0.01	0.03	1.7
DD018641		0.42	27.2	590	35.6	11.4	0.001	0.07	0.94	3.5	1.1	0.4	22.7	<0.01	0.04	1.5
DD018643		0.53	29.2	800	29.3	12.2	0.001	0.06	0.94	4.3	1.0	0.3	50.7	<0.01	0.04	3.1
DD018645		0.88	27.5	910	22.5	6.7	0.002	0.09	0.93	2.9	0.9	0.2	44.9	<0.01	0.02	2.4
DD018647		1.23	28.3	1020	24.3	5.3	0.001	0.05	0.98	3.0	1.1	0.2	42.5	<0.01	0.03	2.1
DD018649		1.30	26.5	880	20.4	4.8	0.002	0.03	0.86	2.9	0.7	0.2	68.8	<0.01	0.03	2.0
DD018651		0.91	28.9	1010	23.3	7.3	0.001	0.03	0.95	2.8	0.8	0.2	52.5	<0.01	0.03	2.0
DD018653		1.22	30.0	980	21.8	4.0	0.001	0.04	1.10	2.8	0.7	0.2	45.1	<0.01	0.03	2.4
DD018655		1.35	26.6	920	19.7	4.5	0.002	0.05	0.87	2.8	0.8	0.2	66.3	<0.01	0.03	2.0
DD018657		1.03	24.4	990	17.5	4.2	0.001	0.03	0.79	2.2	0.3	0.2	48.3	<0.01	0.02	2.1
DD018659		1.22	32.4	1030	31.1	7.5	0.001	0.06	1.11	3.9	1.2	0.3	40.2	<0.01	0.03	2.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018581		0.052	0.08	0.81	35	0.56	6.59	130	1.5
DD018583		0.069	0.08	0.64	38	0.39	7.49	108	1.7
DD018585		0.050	0.09	1.04	44	0.17	8.18	147	1.5
DD018587		0.086	0.07	0.57	38	0.16	7.49	109	2.4
DD018589		0.074	0.07	0.73	36	0.07	7.53	113	2.2
DD018591		0.064	0.08	0.69	40	0.14	8.74	118	1.5
DD018593		0.066	0.07	0.66	36	0.13	7.68	113	1.7
DD018595		0.056	0.09	1.02	37	0.12	8.70	130	2.1
DD018597		0.014	0.04	0.72	13	0.05	4.43	61	1.2
DD018599		0.027	0.07	0.55	27	0.11	7.18	85	1.5
DD018601		0.014	0.10	0.82	28	0.10	7.09	122	1.7
DD018603		0.016	0.11	0.60	36	0.17	7.64	129	1.5
DD018605		0.017	0.10	0.62	35	0.13	7.32	146	1.6
DD018607		0.016	0.08	0.67	27	0.09	6.69	101	1.2
DD018609		0.019	0.12	0.62	39	0.15	8.77	142	1.6
DD018611		0.026	0.13	0.53	52	0.17	4.81	203	0.8
DD018613		0.016	0.10	0.76	29	0.14	6.67	121	1.1
DD018615		0.035	0.09	0.79	37	0.26	6.54	147	1.0
DD018617		0.047	0.07	0.78	39	0.31	7.26	122	1.1
DD018619		0.039	0.09	0.60	40	0.21	7.64	153	1.2
DD018621		0.022	0.10	1.43	64	0.39	8.79	174	0.9
DD018623		0.020	0.10	1.54	47	0.19	7.16	143	0.8
DD018625		0.063	0.08	0.62	39	0.13	7.01	131	1.4
DD018627		0.061	0.08	0.56	36	0.14	7.36	104	1.5
DD018629		0.041	0.08	0.86	38	0.14	7.36	138	1.4
DD018631		0.027	0.13	1.11	44	0.17	7.24	205	1.4
DD018633		0.018	0.14	0.68	40	0.14	10.05	164	1.9
DD018635		0.018	0.12	0.82	52	0.17	8.33	183	1.4
DD018637		0.019	0.12	0.50	46	0.14	10.05	166	2.2
DD018639		0.018	0.11	0.61	40	0.17	8.96	191	1.9
DD018641		0.013	0.12	1.10	45	0.16	10.10	185	1.8
DD018643		0.022	0.12	0.51	39	0.14	9.83	185	2.7
DD018645		0.035	0.08	0.81	34	0.20	7.40	170	1.7
DD018647		0.042	0.07	0.64	35	0.27	8.22	127	1.8
DD018649		0.049	0.07	0.59	33	0.13	7.52	103	2.0
DD018651		0.036	0.08	0.80	34	0.16	7.40	141	1.6
DD018653		0.048	0.06	0.60	35	0.16	8.30	122	1.9
DD018655		0.047	0.08	0.67	33	0.14	7.94	101	2.2
DD018657		0.047	0.06	0.61	33	0.14	6.52	108	1.7
DD018659		0.042	0.10	0.76	42	0.28	9.22	184	2.1





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018661		0.25	0.005	0.27	1.23	14.0	<0.2	<10	150	0.50	0.30	3.77	0.98	27.3	11.7	26
DD018663		0.18	0.005	0.26	1.20	8.4	<0.2	<10	130	0.45	0.34	2.58	0.62	28.4	9.3	23
DD018665		0.17	0.004	0.21	1.01	6.1	<0.2	<10	200	0.45	0.25	6.81	0.88	18.60	6.9	19
DD018667		0.19	0.003	0.21	0.85	8.8	<0.2	<10	120	0.37	0.27	7.36	0.52	21.4	10.4	14
DD018669		0.11	<0.001	0.31	1.49	12.4	<0.2	<10	250	0.59	0.34	2.07	1.50	20.1	10.4	27
DD018671		0.20	0.003	0.23	1.04	9.7	<0.2	<10	160	0.37	0.24	2.17	0.71	25.2	9.6	24
DD018673		0.19	0.003	0.23	1.04	13.1	<0.2	<10	230	0.36	0.25	5.05	0.92	23.8	11.7	25
DD018675		0.20	0.003	0.31	1.04	11.6	<0.2	<10	220	0.46	0.29	5.07	0.94	24.7	12.0	29
DD018677		0.15	0.004	0.20	1.09	8.9	<0.2	<10	150	0.41	0.26	4.80	0.63	25.3	12.8	32
DD018679		0.20	0.003	0.14	0.92	7.9	<0.2	<10	110	0.33	0.21	6.15	0.41	22.5	10.3	25
DD018681		0.18	0.001	0.08	0.88	7.0	<0.2	<10	80	0.27	0.25	8.61	0.42	19.35	10.2	21
DD018683		0.17	0.002	0.11	1.01	8.0	<0.2	<10	110	0.35	0.20	6.65	0.40	22.8	11.6	25
DD018685		0.12	0.007	0.19	1.15	8.7	<0.2	<10	200	0.40	0.25	4.22	0.60	22.1	12.2	31
DD018687		0.23	0.006	0.27	1.19	12.5	<0.2	<10	210	0.46	0.27	4.22	1.07	24.7	11.8	27
DD018689		0.13	0.007	0.14	0.30	1.3	<0.2	<10	470	0.11	0.08	5.24	1.67	4.09	3.9	5
DD018691		0.12	0.010	0.20	0.45	3.1	<0.2	<10	230	0.24	0.10	3.85	2.01	6.57	3.9	7
DD018693		0.12	NSS	0.23	1.09	10.7	<0.2	<10	220	0.41	0.27	1.60	0.88	18.70	8.5	21
DD018695		0.15	NSS	0.15	0.26	1.1	<0.2	10	490	0.10	0.06	5.28	1.57	2.74	1.7	5
DD018697		0.30	0.003	0.14	0.97	7.0	<0.2	<10	140	0.40	0.22	7.96	0.46	22.3	11.1	29
DD018698		0.31	0.002	0.19	1.05	7.0	<0.2	<10	110	0.38	0.24	5.84	0.56	24.4	11.1	32
DD018699		0.19	0.004	0.18	1.10	8.2	<0.2	<10	140	0.44	0.25	4.49	0.68	25.2	10.8	30
DD018700		0.20	0.003	0.19	0.87	8.6	<0.2	<10	190	0.32	0.19	5.86	0.85	19.15	9.6	21
DD018701		0.19	0.001	0.22	1.14	8.5	<0.2	<10	160	0.47	0.27	2.92	0.42	29.4	10.5	27
DD018702		0.10	0.003	0.14	1.02	9.6	<0.2	<10	160	0.36	0.22	1.40	0.52	25.5	9.6	29
DD018703		0.17	0.003	0.14	0.80	7.0	<0.2	<10	110	0.30	0.17	3.41	0.60	25.9	8.6	21
DD018704		0.17	0.004	0.27	1.03	5.7	<0.2	10	120	0.35	0.26	3.20	0.78	23.7	9.6	28
DD018705		0.32	0.002	0.20	1.03	9.8	<0.2	<10	90	0.38	0.25	6.23	0.52	27.3	12.7	31
DD018706		0.40	0.004	0.21	1.05	16.2	<0.2	<10	90	0.37	0.31	5.49	0.81	19.20	12.0	30
DD018707		0.35	0.004	0.23	1.08	6.6	<0.2	<10	120	0.40	0.34	5.46	0.78	24.8	11.0	26
DD018708		0.16	0.002	0.16	0.88	7.7	<0.2	<10	150	0.26	0.18	2.66	1.58	24.2	8.8	22
DD018709		0.13	0.003	0.21	1.09	11.1	<0.2	<10	210	0.43	0.26	2.26	2.01	22.2	9.9	23
DD018710		0.20	0.003	0.17	0.81	10.5	<0.2	<10	110	0.24	0.21	5.63	0.71	21.5	8.5	21





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD018661		0.89	34.1	2.95	3.61	0.13	0.06	0.06	0.039	0.06	13.6	14.2	2.59	282	2.05	0.02
DD018663		0.69	30.0	2.66	3.47	0.12	0.06	0.10	0.037	0.06	13.0	13.2	1.76	538	1.19	0.02
DD018665		1.30	30.2	1.95	2.79	0.11	0.05	0.09	0.032	0.08	8.6	10.8	2.70	451	0.92	0.02
DD018667		0.57	24.3	2.12	2.50	0.10	0.06	0.04	0.027	0.06	9.5	9.6	3.83	726	1.02	0.02
DD018669		0.79	34.8	3.26	4.03	0.11	0.06	0.10	0.050	0.08	9.0	13.6	0.79	615	2.08	0.02
DD018671		0.62	22.2	2.56	3.11	0.11	0.05	0.07	0.032	0.05	11.8	10.9	1.35	505	1.40	0.02
DD018673		1.01	28.5	2.76	3.20	0.12	0.06	0.06	0.031	0.06	11.6	12.1	3.25	1210	1.77	0.02
DD018675		0.92	49.6	2.67	3.18	0.13	0.06	0.09	0.035	0.05	12.2	12.8	3.14	945	1.58	0.02
DD018677		0.65	27.9	2.70	3.40	0.13	0.06	0.06	0.028	0.06	11.9	13.4	3.03	779	1.21	0.02
DD018679		0.53	23.8	2.31	2.78	0.12	0.05	0.04	0.026	0.05	10.0	11.3	3.96	461	1.50	0.02
DD018681		0.46	24.1	2.40	2.64	0.12	0.07	0.04	0.024	0.04	8.8	11.1	4.91	637	1.09	0.02
DD018683		0.66	23.9	2.49	3.28	0.13	0.07	0.03	0.029	0.04	10.3	13.4	4.22	680	1.03	0.02
DD018685		1.18	28.8	2.67	3.44	0.11	0.06	0.07	0.031	0.08	10.0	13.6	2.55	1020	1.22	0.02
DD018687		1.40	31.0	3.11	3.58	0.11	0.06	0.08	0.033	0.08	12.1	14.6	2.80	842	1.70	0.02
DD018689		0.15	22.3	0.65	0.78	0.09	0.02	0.09	0.009	0.01	2.1	1.3	0.45	268	0.39	0.02
DD018691		0.33	18.0	0.81	1.17	0.09	0.03	0.12	0.012	0.03	3.7	2.9	0.46	1280	1.18	0.02
DD018693		0.52	22.2	2.65	3.16	0.09	0.03	0.06	0.032	0.05	8.5	11.6	0.57	1120	1.72	0.01
DD018695		0.15	14.1	0.37	0.63	0.08	0.04	0.06	0.008	0.02	1.4	1.0	0.42	311	0.46	0.02
DD018697		0.54	24.4	2.35	3.11	0.11	0.07	0.04	0.026	0.05	10.0	12.6	4.04	720	1.10	0.02
DD018698		0.69	21.2	2.35	3.34	0.12	0.06	0.05	0.030	0.06	11.5	14.7	3.81	780	0.85	0.02
DD018699		1.12	23.4	2.63	3.46	0.12	0.05	0.06	0.030	0.07	12.0	14.4	2.95	582	1.09	0.02
DD018700		1.12	23.6	2.19	2.73	0.10	0.04	0.04	0.022	0.05	8.6	11.3	2.98	715	1.18	0.02
DD018701		0.60	22.7	2.24	3.58	0.11	0.05	0.06	0.037	0.05	13.8	14.5	2.03	401	0.91	0.02
DD018702		0.42	18.5	2.65	3.24	0.10	0.04	0.05	0.030	0.04	12.1	11.4	1.03	459	1.27	0.01
DD018703		0.55	16.0	2.01	2.53	0.11	0.05	0.05	0.025	0.05	12.7	10.6	2.18	422	0.90	0.02
DD018704		2.23	28.6	2.39	3.25	0.05	0.05	0.09	0.028	0.08	11.8	14.7	1.91	295	0.82	0.01
DD018705		0.69	33.9	2.47	3.30	0.07	0.09	0.07	0.030	0.08	14.0	15.0	4.19	546	1.85	0.02
DD018706		2.15	44.1	2.60	3.49	0.07	0.09	0.06	0.031	0.09	9.4	16.0	3.62	382	5.73	0.02
DD018707		1.10	33.4	2.38	3.29	0.07	0.07	0.16	0.028	0.09	12.2	16.0	3.52	424	1.08	0.02
DD018708		0.61	17.7	2.26	2.63	0.05	0.04	0.05	0.024	0.06	11.7	11.9	1.55	556	0.83	0.01
DD018709		0.75	27.5	2.70	3.05	<0.05	0.04	0.09	0.037	0.06	9.9	10.7	0.83	1140	1.51	0.01
DD018710		1.25	26.9	2.28	2.51	0.06	0.04	0.06	0.024	0.05	10.8	11.2	3.61	513	1.65	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD018661		1.03	33.9	1000	27.6	6.7	0.001	0.03	1.16	4.0	0.8	0.3	32.6	<0.01	0.04	3.1
DD018663		0.61	30.4	1030	32.7	6.5	<0.001	0.04	0.98	3.5	0.6	0.3	28.8	0.01	0.05	2.3
DD018665		0.41	19.7	770	21.5	6.9	0.001	0.07	0.75	2.6	1.2	0.3	74.9	<0.01	0.03	1.1
DD018667		0.38	23.3	710	27.6	5.1	0.001	0.04	0.92	2.9	0.5	0.2	58.3	<0.01	0.02	2.4
DD018669		0.45	31.1	940	30.2	9.4	0.001	0.11	1.29	2.9	0.8	0.4	30.6	<0.01	0.04	0.9
DD018671		0.92	28.6	1100	25.1	5.0	0.001	0.06	0.93	2.7	0.5	0.5	30.3	<0.01	0.02	1.9
DD018673		1.04	31.9	1040	25.8	6.0	0.001	0.06	1.12	3.1	1.0	0.3	41.8	<0.01	0.05	2.5
DD018675		1.08	36.2	1050	30.9	5.8	0.002	0.07	1.31	3.7	1.4	0.3	44.3	<0.01	0.06	1.8
DD018677		1.62	31.4	970	22.6	6.2	0.002	0.06	0.83	3.2	1.1	0.2	60.2	<0.01	0.03	1.9
DD018679		1.52	27.7	1010	19.4	3.8	0.001	0.05	0.89	2.7	0.6	0.2	51.4	<0.01	0.03	2.3
DD018681		1.52	25.5	870	17.1	3.6	0.002	0.05	0.74	2.7	0.7	0.2	65.9	<0.01	0.03	2.1
DD018683		1.93	29.0	970	20.0	4.8	0.001	0.06	0.72	2.9	1.0	0.2	59.3	<0.01	0.03	2.0
DD018685		1.40	31.4	1020	23.7	8.3	0.001	0.08	0.89	3.0	0.9	0.2	50.1	<0.01	0.03	1.8
DD018687		0.99	32.6	1070	27.5	9.4	0.001	0.08	1.19	3.5	1.4	0.3	41.8	<0.01	0.04	2.6
DD018689		0.16	10.7	860	4.4	1.0	0.001	0.22	0.77	0.4	2.6	<0.2	61.1	<0.01	0.02	<0.2
DD018691		0.19	15.6	990	6.9	1.9	0.002	0.21	0.76	0.5	1.4	0.2	46.5	<0.01	0.02	0.2
DD018693		0.38	23.9	600	22.6	6.2	0.001	0.07	0.94	2.1	1.0	0.3	24.9	<0.01	0.04	0.7
DD018695		0.14	6.7	820	2.7	1.1	0.002	0.20	0.93	0.3	2.8	<0.2	61.7	<0.01	0.01	<0.2
DD018697		2.04	27.4	910	19.8	3.9	0.002	0.06	0.69	3.1	0.6	0.2	74.9	<0.01	0.03	2.3
DD018698		1.77	27.6	990	22.9	8.5	0.001	0.05	0.58	3.4	0.5	0.3	59.4	<0.01	0.03	2.3
DD018699		1.55	28.1	1070	24.1	7.6	0.001	0.07	0.78	3.3	0.8	0.3	51.0	<0.01	0.03	2.3
DD018700		0.82	26.1	890	19.9	5.4	0.002	0.08	0.93	2.4	1.2	0.2	73.9	<0.01	0.03	1.3
DD018701		1.34	30.9	1060	28.3	5.6	0.001	0.04	0.74	3.6	0.6	0.4	34.6	<0.01	0.04	3.0
DD018702		1.25	26.0	1050	20.2	4.7	<0.001	0.05	0.86	2.6	0.8	0.3	27.9	<0.01	0.05	1.9
DD018703		1.56	22.1	1150	18.4	6.1	0.001	0.04	0.72	2.4	0.6	0.2	43.2	<0.01	0.03	2.7
DD018704		1.47	24.7	900	21.1	24.3	0.002	0.06	0.59	3.2	1.4	0.2	114.0	<0.01	0.01	2.0
DD018705		1.60	31.1	940	21.8	9.8	0.001	<0.01	1.08	3.8	0.8	0.3	50.0	<0.01	0.04	3.1
DD018706		1.87	31.8	850	21.8	33.3	0.007	1.21	1.16	4.2	2.4	0.3	65.2	<0.01	0.02	2.8
DD018707		1.36	29.0	830	19.8	15.3	0.002	0.07	0.96	3.9	1.0	0.3	50.8	<0.01	0.05	2.9
DD018708		1.29	22.9	1110	18.2	9.6	0.002	0.05	0.79	2.4	0.8	0.3	68.1	<0.01	0.03	2.1
DD018709		0.61	26.1	660	22.3	10.2	0.001	0.06	0.94	2.4	0.7	0.3	43.2	<0.01	0.04	0.8
DD018710		1.03	29.4	930	18.3	5.4	0.001	0.02	1.25	2.5	0.8	0.2	41.8	<0.01	0.06	2.3





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018661		0.034	0.09	0.65	42	0.23	9.94	183	2.4
DD018663		0.026	0.11	0.71	38	0.55	9.98	146	1.7
DD018665		0.018	0.08	0.89	32	0.13	7.75	134	1.6
DD018667		0.017	0.09	0.57	27	0.14	7.73	90	2.0
DD018669		0.014	0.13	0.95	48	0.21	8.09	208	1.9
DD018671		0.033	0.08	0.69	39	0.20	7.99	155	1.6
DD018673		0.040	0.10	0.79	38	0.30	7.83	166	1.8
DD018675		0.039	0.09	0.74	39	0.15	10.75	150	2.3
DD018677		0.056	0.08	0.80	41	0.13	8.68	126	2.0
DD018679		0.055	0.07	0.63	34	0.15	7.51	109	1.9
DD018681		0.055	0.06	0.68	31	0.10	7.48	87	2.3
DD018683		0.058	0.06	0.67	33	0.11	7.92	114	2.3
DD018685		0.045	0.11	1.15	40	0.33	7.62	200	2.2
DD018687		0.036	0.11	0.86	39	0.26	8.17	185	1.9
DD018689		0.007	0.03	4.83	6	<0.05	2.39	58	1.1
DD018691		0.008	0.05	2.50	14	0.06	4.40	99	1.3
DD018693		0.014	0.08	0.87	39	0.17	6.37	147	1.1
DD018695		0.006	0.03	4.61	5	<0.05	1.66	86	1.1
DD018697		0.071	0.06	0.80	37	0.13	7.89	95	2.4
DD018698		0.066	0.08	0.67	39	0.15	8.58	173	2.2
DD018699		0.055	0.09	0.80	39	0.23	8.10	240	1.9
DD018700		0.030	0.07	0.79	32	0.24	6.88	143	1.3
DD018701		0.047	0.08	0.73	41	0.21	9.04	162	1.8
DD018702		0.049	0.06	0.60	43	0.48	7.53	190	1.4
DD018703		0.056	0.06	0.65	34	0.42	7.26	212	1.8
DD018704		0.057	0.08	1.25	36	0.12	8.07	464	1.5
DD018705		0.086	0.09	0.55	42	0.10	9.27	138	3.1
DD018706		0.075	0.11	8.69	41	0.15	9.50	365	3.6
DD018707		0.057	0.10	1.32	40	0.13	8.97	507	2.3
DD018708		0.050	0.07	1.40	35	0.18	6.43	731	1.3
DD018709		0.023	0.10	1.79	40	0.16	7.81	883	1.0
DD018710		0.046	0.08	0.75	33	0.22	7.22	144	1.5





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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126843**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12126844**

Project: ATAC Regional- Area I- J  
 P.O. No.: R3  
 This report is for 77 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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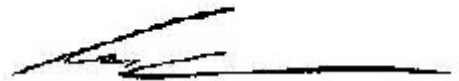
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Sb- XRF10	Fusion XRF - Sb Ore Grade	XRF
ME- XRF10	Fusion XRF - Ore Grade	XRF
OA- GRA06	LOI for ME- XRF06	WST- SIM
Sn- XRF05	Sn- Trace Level XRF Analysis	XRF
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242033		0.58	<0.01	0.17	9.35	3.2	650	166.5	0.91	5.51	0.11	69.2	6.6	95	56.9	147.5
K242034		0.38	<0.01	0.25	10.30	0.4	630	29.5	0.62	8.52	0.08	41.2	4.4	118	35.6	87.3
K242035		0.21	<0.01	0.32	6.22	1.2	330	27.6	1.19	6.89	0.06	90.5	9.4	57	29.0	693
K242036		0.38	<0.01	0.12	10.60	1.2	590	27.0	0.29	9.48	<0.02	55.9	3.4	100	26.0	90.7
K242037		0.60	<0.01	0.29	10.80	2.8	640	33.6	1.47	9.05	0.02	112.0	13.8	98	7.57	375
K242038		1.21	<0.01	0.21	11.05	1.5	330	32.5	0.74	9.62	<0.02	77.7	6.5	130	20.0	120.0
K242039		0.81	<0.01	0.18	10.45	0.4	400	148.0	0.71	8.12	<0.02	67.2	8.1	108	29.9	260
K242040		0.67	0.01	0.28	9.96	<0.2	660	20.7	0.92	9.65	<0.02	72.3	10.1	84	18.35	234
K242041		0.64	<0.01	0.20	9.18	1.4	380	28.4	1.43	8.89	<0.02	51.4	6.7	71	18.25	166.0
K242042		1.50	<0.01	0.58	9.59	1.6	530	18.60	1.04	6.83	0.27	101.0	7.5	81	34.4	220
K242043		2.03	<0.01	0.13	8.95	<0.2	650	2.84	1.45	8.05	0.08	40.3	20.1	202	24.8	84.6
K242044		3.53	<0.01	0.21	8.81	<5	400	3.74	2.24	10.60	0.13	41.7	22.5	202	23.2	101.0
K242045		0.80	<0.01	0.04	1.35	<5	120	5.84	0.21	21.3	1.52	12.05	3.8	8	14.65	22.3
K242046		0.64	<0.01	0.06	0.04	<5	50	0.15	0.17	22.4	0.07	3.39	0.8	1	0.26	2.1
K242047		0.24	<0.01	0.21	0.77	54	220	2.32	0.82	19.05	0.27	6.23	8.9	15	0.73	16.6
K242048		0.21	4.50	>100	0.50	1040	830	1.11	215	18.60	260	4.34	2.9	10	1.36	1450
K242049		0.17	0.05	7.06	0.63	30	8810	0.46	9.69	24.6	8.92	4.50	0.8	5	0.41	90.1
K242050		0.48	<0.01	0.69	0.79	96	500	1.30	16.00	20.7	5.63	4.44	5.0	20	3.65	7.3
K242125		0.70	<0.01	0.05	1.85	11	400	0.46	0.61	23.3	0.11	14.05	3.6	13	8.92	5.2
K242126		0.78	<0.01	0.64	10.35	5	370	16.15	1.23	10.10	0.25	61.7	6.3	120	12.55	130.5
K242127		0.80	<0.01	0.74	2.35	0.2	150	54.5	1.55	7.71	0.44	8.48	2.4	14	23.9	247
K242128		0.57	<0.01	0.31	10.05	1.1	720	21.5	0.95	5.82	0.04	22.9	17.7	73	42.3	224
K242129		0.16	<0.01	16.50	0.46	166.5	260	0.36	0.66	3.75	0.33	12.20	125.0	12	0.45	6210
K242130		0.30	0.85	1.53	0.18	52.4	20	0.10	5.74	6.99	0.13	5.90	0.5	14	0.23	13.6
K242131		0.73	<0.01	0.06	0.37	<5	20	0.32	0.19	23.7	0.04	9.57	1.1	7	5.96	18.2
K242132		1.32	1.65	53.5	0.24	529	350	0.89	100.0	19.25	10.55	3.72	0.7	4	0.50	387
K242133		0.44	0.03	2.22	0.24	98	120	0.64	0.89	11.15	1.30	4.82	9.9	6	0.33	46.2
K242134		0.86	0.03	1.26	0.15	5	50	0.50	3.19	21.8	60.7	4.74	1.4	4	0.66	24.4
K242135		0.70	0.01	1.30	2.61	133.0	860	3.65	1.28	5.49	13.20	13.60	12.0	42	0.66	151.5
K242136		0.82	0.03	1.90	0.76	65	3150	0.54	11.30	19.85	18.25	19.90	1.8	23	6.89	58.1
K242137		0.80	<0.01	0.05	0.66	<5	640	0.77	0.67	21.3	0.32	19.25	1.8	17	12.85	4.0
K242138		0.56	0.33	1.18	0.08	935	80	0.22	16.90	0.65	1.15	4.22	7.4	<1	0.19	23.1
K242139		0.57	<0.01	0.79	0.14	27	230	0.17	0.46	21.6	1.63	4.29	1.0	2	1.17	16.8
K242140		0.16	0.03	1.69	0.36	4.1	180	0.07	2.31	0.13	0.37	0.45	7.5	<1	0.14	3270
K242141		1.05	0.06	1.61	0.15	33	50	1.30	49.2	20.8	4.34	4.58	1.8	3	0.19	191.0
K242142		0.58	<0.01	2.27	0.04	6	550	<0.05	3.08	27.3	50.1	5.58	0.5	2	0.13	17.1
K242143		0.86	<0.01	1.39	1.59	4.0	750	0.15	6.75	0.19	0.25	0.78	7.9	12	0.51	1090
K242144		0.74	<0.01	0.45	6.50	8	1830	0.51	3.44	11.15	0.20	28.3	32.7	127	9.77	465
K242145		2.88	0.04	1.82	0.07	133.0	10	0.09	6.69	2.93	0.46	2.10	17.7	5	0.65	1970
K242146		0.96	0.04	2.12	0.06	263	20	<0.05	18.85	4.71	0.57	1.37	2.3	1	0.71	2150





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Project: ATAC Regional- Area I- J

**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K242033		6.39	49.1	0.24	1.7	0.11	0.307	3.78	33.8	144.0	6.21	998	15.95	0.43	25.3	41.7
K242034		4.28	54.0	0.19	1.6	0.02	0.115	1.39	18.1	126.0	3.45	1120	4.14	0.56	34.5	23.5
K242035		12.80	25.0	0.29	1.3	0.02	0.244	1.78	57.7	42.5	7.30	801	22.0	0.37	11.7	42.9
K242036		2.76	44.8	0.18	2.9	0.01	0.043	2.09	27.1	88.9	3.26	185	4.24	0.36	32.6	15.4
K242037		6.99	37.6	0.24	2.8	0.01	0.077	1.03	65.8	47.2	1.38	116	7.96	0.47	29.5	75.4
K242038		3.32	44.9	0.21	2.4	<0.01	0.038	1.52	36.4	62.4	1.93	140	10.65	0.31	33.4	43.2
K242039		6.54	53.0	0.22	1.7	0.01	0.273	2.29	30.5	85.8	2.99	681	18.00	0.21	28.8	36.8
K242040		5.29	29.8	0.19	2.0	<0.01	0.159	1.45	40.8	48.6	4.73	228	6.80	0.95	21.9	48.2
K242041		4.96	28.2	0.20	1.5	<0.01	0.139	1.23	20.1	36.6	7.21	198	3.61	0.60	16.7	34.0
K242042		4.64	33.0	0.26	1.8	0.01	0.049	2.92	56.9	98.7	9.00	137	3.64	0.44	17.0	37.2
K242043		5.37	32.3	0.20	1.2	<0.01	0.151	2.32	20.7	57.2	2.81	1290	0.67	1.67	41.6	170.0
K242044		5.68	24.3	0.17	1.1	<0.01	0.186	1.28	21.7	38.5	2.83	1520	0.75	1.90	35.0	181.5
K242045		0.97	6.64	0.10	0.2	<0.01	0.015	1.13	6.2	26.0	10.85	315	1.24	0.08	1.5	12.0
K242046		0.28	0.31	0.28	<0.1	<0.01	0.014	0.01	2.0	3.0	12.85	794	0.95	<0.01	0.2	<0.2
K242047		1.19	5.20	0.11	0.2	0.01	0.026	0.05	5.2	20.1	10.20	269	1.80	0.11	1.0	29.8
K242048		1.26	12.25	0.63	0.1	2.80	2.26	0.11	4.3	9.8	7.11	150	11.30	0.06	0.8	31.5
K242049		0.17	2.54	0.21	0.1	0.51	0.785	0.06	3.9	5.0	9.50	489	4.20	0.12	0.5	9.3
K242050		1.31	3.92	0.15	0.3	0.03	0.023	0.22	4.3	16.6	9.89	234	9.10	0.08	1.5	79.6
K242125		0.73	4.43	0.11	0.5	0.01	0.007	0.89	6.8	30.8	10.40	100	0.94	0.08	2.7	9.0
K242126		3.45	43.2	0.18	2.0	0.02	0.017	0.99	29.9	58.0	2.12	285	8.84	0.49	28.5	41.1
K242127		8.82	16.05	0.17	0.4	0.02	0.137	1.67	4.1	43.1	11.90	613	12.70	0.20	2.3	16.8
K242128		7.14	41.7	0.23	1.7	0.01	0.265	3.37	7.8	63.1	7.20	111	13.15	0.33	19.8	76.3
K242129		5.52	1.39	0.16	0.2	0.44	0.298	0.17	5.8	2.4	0.77	1100	1.90	0.01	0.7	112.5
K242130		1.22	0.94	0.25	0.1	0.03	0.005	0.02	4.2	1.0	0.08	38	0.71	<0.01	0.5	2.7
K242131		0.34	1.29	0.18	0.1	<0.01	0.008	0.28	4.8	5.7	11.75	664	0.09	<0.01	0.6	<0.2
K242132		0.18	2.38	0.82	0.1	0.15	0.082	0.05	4.0	4.8	8.78	140	0.93	0.03	0.4	8.0
K242133		6.94	1.71	0.19	0.1	0.08	0.009	0.01	4.5	9.4	11.05	95	3.67	0.01	0.3	148.5
K242134		0.28	3.75	0.26	0.1	0.79	4.70	0.03	4.9	3.1	10.70	271	1.63	0.01	0.5	12.2
K242135		5.21	7.95	0.27	0.4	0.06	0.515	0.12	9.2	20.4	8.05	150	14.60	0.12	1.4	378
K242136		0.49	5.34	0.13	0.3	0.76	1.955	0.48	24.0	8.4	6.18	794	1.00	0.06	1.4	34.8
K242137		0.35	3.36	0.18	0.3	0.03	0.011	0.58	21.9	12.3	9.69	722	1.11	0.01	0.9	47.0
K242138		>50	0.86	1.40	<0.1	0.04	0.078	0.04	3.1	1.2	1.01	224	32.1	<0.01	1.0	135.0
K242139		0.27	0.85	0.15	<0.1	0.02	0.214	0.09	3.9	6.0	12.30	391	0.75	<0.01	0.3	3.0
K242140		>50	0.26	0.73	<0.1	0.02	0.052	0.01	<0.5	0.4	0.07	<5	0.85	<0.01	0.8	60.0
K242141		0.63	1.83	0.09	<0.1	0.10	0.103	0.01	4.9	3.4	10.15	175	1.82	0.02	1.4	18.9
K242142		0.84	0.24	0.05	<0.1	0.67	0.237	<0.01	3.3	0.5	3.73	1040	0.22	<0.01	0.3	0.9
K242143		35.9	1.89	0.42	0.4	0.11	0.025	0.36	<0.5	0.7	0.04	9	3.95	0.04	2.3	58.0
K242144		8.81	14.75	0.25	0.7	0.01	0.011	5.02	13.9	25.4	0.73	338	0.80	0.34	29.8	98.7
K242145		38.9	0.53	0.38	<0.1	0.02	0.082	0.01	0.8	0.3	0.93	578	0.60	<0.01	0.6	32.1
K242146		35.3	0.43	0.35	<0.1	0.02	0.131	0.02	<0.5	0.5	1.56	621	0.48	<0.01	0.7	31.5





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**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K242033		380	12.2	980	0.007	1.02	0.27	11.5	3	74.9	132.0	1.51	0.12	9.4	0.603	7.76
K242034		460	30.4	189.5	0.002	0.76	0.16	4.7	3	117.5	337	1.86	0.05	7.5	0.751	3.64
K242035		160	3.2	630	0.009	0.14	0.14	11.8	4	30.2	78.0	0.85	0.27	14.3	0.297	2.62
K242036		180	4.9	230	0.004	0.60	0.17	7.1	3	72.6	247	1.86	0.08	8.7	0.752	3.51
K242037		260	3.9	79.0	0.008	3.98	0.43	9.3	5	119.5	406	1.82	0.15	13.1	0.786	1.60
K242038		250	9.1	158.5	0.009	1.57	0.93	7.5	4	109.0	322	1.99	0.05	12.7	0.830	2.87
K242039		410	4.7	352	0.013	2.78	0.19	6.4	3	102.5	145.0	1.59	0.13	10.0	0.718	5.19
K242040		310	6.6	186.5	0.007	2.02	0.15	13.1	4	48.3	286	1.39	0.09	11.0	0.582	1.80
K242041		210	4.2	283	0.003	1.34	0.30	15.0	3	16.8	224	1.01	0.12	11.1	0.443	1.34
K242042		130	24.0	530	0.002	0.79	0.59	15.1	3	20.2	155.5	1.03	0.09	10.7	0.470	3.79
K242043		1280	13.4	300	<0.002	0.83	0.28	22.6	3	28.7	325	5.08	0.09	4.0	1.075	1.52
K242044		1340	20.8	133.5	<0.002	0.96	0.20	23.0	3	26.6	274	1.73	0.08	3.3	1.115	0.78
K242045		40	0.7	182.5	0.002	0.02	0.15	2.5	2	0.9	97.9	0.07	<0.05	0.9	0.046	1.14
K242046		50	4.4	2.8	0.002	0.06	1.16	0.2	2	1.1	96.5	<0.05	<0.05	<0.2	<0.005	0.06
K242047		580	18.6	4.9	0.009	0.54	9.31	1.2	7	13.6	172.5	0.05	<0.05	0.5	0.028	0.09
K242048		120	>10000	9.0	0.011	1.69	6170	1.2	221	>500	183.0	<0.05	2.28	0.5	0.034	0.48
K242049		80	607	5.4	0.003	0.14	156.0	0.5	20	110.5	227	<0.05	<0.05	0.2	0.011	0.06
K242050		420	147.5	39.6	0.005	0.09	70.4	1.3	23	24.8	129.5	0.08	0.09	0.7	0.032	0.45
K242125		50	2.6	50.2	<0.002	0.40	0.78	3.6	2	2.6	179.0	0.16	<0.05	2.3	0.082	0.90
K242126		230	61.7	73.0	0.007	2.29	5.90	6.6	4	97.6	248	1.80	0.11	8.1	0.772	2.21
K242127		120	27.8	421	0.005	0.09	1.16	3.6	2	9.8	23.5	0.15	<0.05	2.4	0.093	2.19
K242128		170	7.1	530	0.006	4.43	1.66	8.9	4	54.6	157.0	1.31	0.13	10.1	0.565	5.09
K242129		250	28.5	10.8	<0.002	3.76	59.3	1.6	3	0.4	27.3	<0.05	<0.05	0.6	0.022	0.08
K242130		10	8.6	2.3	0.011	>10.0	3.20	0.7	69	2.3	18.5	<0.05	<0.05	<0.2	0.013	0.03
K242131		50	0.8	77.0	<0.002	0.05	0.27	1.2	2	0.3	119.5	<0.05	<0.05	0.4	0.016	0.44
K242132		220	9250	5.3	0.003	0.47	3940	0.6	225	80.2	220	<0.05	0.78	0.2	0.007	0.34
K242133		280	48.8	1.0	0.003	4.14	28.9	0.4	27	11.8	148.0	<0.05	<0.05	0.3	0.011	0.02
K242134		160	204	5.7	0.004	0.53	31.1	0.5	10	47.5	174.0	<0.05	<0.05	0.3	0.007	0.06
K242135		710	327	10.9	0.013	0.09	99.4	1.8	49	129.0	9.4	0.09	0.05	0.9	0.032	0.23
K242136		1230	930	89.8	0.002	0.47	697	1.6	8	37.5	442	0.07	0.25	0.9	0.035	0.62
K242137		1310	10.5	215	0.004	0.13	1.84	2.0	3	3.3	367	0.06	<0.05	1.1	0.032	1.19
K242138		130	29.2	4.1	0.002	4.78	15.15	0.8	109	11.0	16.8	<0.05	0.10	0.2	<0.005	0.25
K242139		70	209	15.1	0.002	0.21	94.0	0.3	2	21.0	150.5	<0.05	<0.05	0.2	<0.005	0.17
K242140		120	2.8	1.6	0.004	>10.0	8.58	0.2	13	0.9	3.4	<0.05	1.33	<0.2	<0.005	0.05
K242141		70	379	0.8	0.007	0.68	135.5	0.3	13	136.0	247	<0.05	0.12	0.2	0.007	0.02
K242142		60	449	0.3	<0.002	0.83	2.68	0.6	4	2.4	1445	<0.05	<0.05	0.7	<0.005	<0.02
K242143		760	5.2	23.4	0.011	>10.0	5.98	1.8	11	0.7	18.5	0.09	0.89	1.0	0.052	0.32
K242144		550	5.3	321	0.004	5.61	0.75	16.0	30	3.6	182.0	1.11	0.28	2.9	0.728	4.41
K242145		20	4.0	3.2	0.002	>10.0	8.29	0.4	10	7.4	8.2	<0.05	0.35	<0.2	<0.005	0.09
K242146		20	8.6	5.9	0.002	>10.0	1.70	0.5	3	2.7	14.5	<0.05	0.49	<0.2	<0.005	0.12





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**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	Sb- XRF10	Sn- XRF05
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	Sb	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.01	5
K242033		4.5	98	6.2	24.0	186	57.1					
K242034		4.4	70	11.2	23.0	167	58.8					
K242035		5.8	77	24.3	14.7	81	45.5					
K242036		6.6	71	3.1	13.3	46	109.5					
K242037		6.3	76	10.6	10.2	20	105.0					
K242038		6.0	82	4.8	12.6	30	91.5					
K242039		6.0	61	404	19.5	117	59.8					
K242040		7.3	100	52.1	7.6	46	68.3					
K242041		5.7	86	1.9	10.5	36	48.8					
K242042		10.3	94	137.0	14.5	52	67.1					
K242043		1.6	158	4.5	22.3	118	23.3					
K242044		1.4	155	3.6	25.1	141	25.1					
K242045		0.9	18	1.4	10.4	229	7.8					
K242046		1.1	7	28.1	2.8	12	0.5					
K242047		4.8	235	1.6	5.9	53	9.4					
K242048		14.8	289	9.4	7.1	>10000	6.4	186	1.555	1.510		656
K242049		3.0	158	0.5	4.9	622	3.5					
K242050		2.0	934	9.1	5.6	504	12.9					
K242125		2.0	18	0.7	5.2	21	17.0					
K242126		4.9	78	4.7	9.9	28	67.8					
K242127		3.6	81	590	7.8	111	15.2					
K242128		5.6	82	17.3	7.5	28	59.5					
K242129		0.7	10	6.2	4.4	44	6.9					
K242130		0.3	76	5.3	3.5	6	4.3					
K242131		0.4	4	0.5	6.1	12	4.9					
K242132		6.1	151	2.4	9.0	377	3.5					
K242133		1.8	272	0.7	4.2	76	3.4					
K242134		2.9	124	2.0	6.8	8410	2.8					
K242135		6.8	2560	9.6	69.9	2440	18.3					
K242136		10.1	495	2.0	29.1	2330	13.0					
K242137		6.7	330	2.2	36.6	35	11.2					
K242138		9.2	69	39.1	5.9	70	2.0					
K242139		2.4	55	1.3	3.2	307	1.4					
K242140		1.0	11	97.9	0.9	41	3.3					
K242141		5.7	158	1.5	6.5	210	2.4					
K242142		0.6	48	0.3	4.1	6040	3.6					
K242143		2.6	52	1.8	2.6	17	19.2					
K242144		1.3	106	0.9	16.0	33	35.3					
K242145		0.8	7	2.4	3.6	77	<0.5					
K242146		0.4	8	1.2	3.0	88	0.5					





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**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242147		1.35	<0.01	0.42	4.55	9.8	3910	1.53	2.24	7.86	0.07	12.75	1.5	53	5.90	136.0
L837701		0.67	0.01	0.18	0.25	14	250	0.68	1.38	20.2	42.2	4.53	4.7	3	2.39	19.8
L837702		0.80	0.01	4.81	0.46	26	1120	0.75	1.64	21.4	3.65	7.47	1.1	10	7.73	29.2
L837703		1.68	<0.01	0.41	0.61	<5	7710	0.79	13.85	16.85	11.80	24.0	1.6	19	9.44	3.0
L837704		0.63	0.01	0.82	0.28	<5	190	4.43	0.95	19.00	0.24	6.66	1.1	6	1.26	196.0
L837705		0.29	0.01	1.09	0.18	7	230	0.38	2.19	19.90	12.65	4.12	3.6	1	1.30	11.7
L837706		0.44	<0.01	0.17	7.77	29.5	1410	1.17	1.32	4.16	1.56	37.0	39.7	242	8.80	64.7
L837707		0.56	0.05	2.10	0.11	457	20	0.06	15.25	1.03	0.34	1.29	16.6	<1	1.26	2300
L837708		0.63	0.01	2.27	0.06	219	10	0.13	15.75	1.37	0.16	3.07	1.1	<1	0.09	1540
L837709		0.38	0.13	4.29	0.06	452	20	<0.05	19.10	0.59	0.37	1.13	40.6	1	0.76	4840
L837710		0.82	0.12	2.97	0.05	417	10	<0.05	18.00	1.19	0.39	0.96	24.8	<1	0.49	3770
L837711		0.71	0.01	1.36	0.06	202	10	0.12	14.05	2.00	0.45	1.53	1.0	<1	0.24	1520
L837712		0.37	<0.01	0.03	0.52	6	70	0.05	1.16	26.5	0.03	6.00	2.1	8	7.01	20.3
L837713		0.16	<0.01	0.01	0.08	<5	20	0.18	0.11	32.9	0.06	2.35	1.0	<1	0.58	6.3
K242078		0.52	<0.01	0.04	2.18	7.3	1120	2.40	0.65	6.81	2.44	12.10	5.0	26	1.27	108.0
K242079		1.17	<0.01	0.12	1.56	9.1	1340	1.43	0.96	3.29	3.99	7.32	8.7	27	1.53	136.5
K242080		0.27	<0.01	0.15	1.40	14.4	1320	1.27	1.45	2.55	2.14	8.73	1.2	30	1.51	72.3
K242081		0.46	<0.01	0.11	1.04	3.0	1690	0.68	1.50	2.96	1.86	7.53	7.0	26	1.34	69.9
K242082		0.98	<0.01	0.11	0.09	<5	140	0.33	0.52	22.4	0.30	3.04	1.5	1	0.73	5.0
K242083		0.68	<0.01	0.65	0.39	9	380	1.08	3.51	21.4	1.73	3.62	2.6	11	2.00	5.6
K242084		0.33	<0.01	0.20	0.38	<5	530	1.00	0.64	21.5	1.51	3.84	2.3	9	3.56	21.0
K242085		0.59	<0.01	0.27	9.42	<0.2	1310	9.96	0.67	7.77	0.08	43.9	11.4	67	17.25	160.5
K242086		0.46	<0.01	0.12	7.63	<5	800	4.03	0.80	12.40	0.04	44.3	10.7	53	6.67	49.7
K242087		0.71	<0.01	0.03	0.52	<5	310	0.22	0.15	22.4	0.03	8.75	2.2	1	2.55	10.9
K242088		0.88	<0.01	0.04	1.04	<5	270	1.22	0.18	21.0	0.03	11.60	2.6	5	5.36	16.3
K242089		0.30	<0.01	0.10	0.60	13	3550	0.80	0.17	21.2	1.01	5.00	2.6	15	1.23	2.2
K242090		0.80	<0.01	0.02	1.14	2.8	>10000	1.30	1.34	9.87	1.78	15.95	2.3	19	1.61	2.8
K242091		1.63	<0.01	0.02	0.16	<5	150	0.43	0.25	22.5	0.89	4.42	1.5	2	0.85	3.6
K242092		0.34	13.70	93.0	0.23	83	60	1.24	5530	19.35	14.55	11.05	1.9	1	0.34	150.0
K242093		0.50	0.01	3.12	0.23	31	530	0.39	14.10	27.5	6.22	8.57	1.0	3	3.37	11.5
K242094		0.83	<0.01	0.09	0.33	8	560	0.56	1.67	20.4	0.26	11.00	1.5	11	2.15	12.9
K242095		0.25	0.96	>100	0.20	5170	320	2.96	470	7.29	138.5	4.74	2.2	1	0.84	7920
K242096		0.57	0.01	1.09	0.17	7	440	0.37	0.58	22.1	1.32	4.52	2.1	1	1.00	13.1
K242097		2.14	<0.01	1.07	0.37	<5	760	0.79	0.83	24.2	0.24	5.72	1.0	2	2.29	5.9
K242098		0.53	0.02	0.46	0.26	<5	460	0.43	4.50	22.2	0.44	3.85	1.3	3	0.80	14.6
K242099		0.50	<0.01	0.12	0.22	14	420	0.38	0.40	22.6	1.09	4.78	1.0	1	1.99	4.1
K242100		0.55	<0.01	0.02	0.13	<5	260	0.22	0.17	22.2	0.09	4.18	0.8	<1	1.41	0.7





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**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K242147		5.13	11.10	0.11	1.0	<0.01	0.029	5.39	3.2	42.2	5.46	796	37.5	0.26	9.6	12.2
L837701		0.94	1.00	<0.05	0.1	0.01	0.013	0.12	3.6	12.0	12.60	562	5.94	0.01	0.5	52.7
L837702		0.79	2.91	<0.05	0.1	0.12	0.364	0.30	8.5	21.3	9.54	509	3.21	0.03	0.8	37.3
L837703		0.46	2.71	<0.05	0.3	0.05	0.537	0.24	27.4	9.9	10.05	838	1.91	0.06	1.4	57.9
L837704		1.39	4.35	<0.05	0.1	0.02	0.045	0.10	5.0	7.8	10.15	574	0.88	0.04	0.8	27.5
L837705		0.63	0.84	<0.05	0.1	0.02	0.133	0.09	3.6	7.8	11.85	452	1.81	0.01	0.4	22.6
L837706		5.42	22.3	0.13	0.6	0.03	0.035	4.13	18.2	77.1	1.38	494	3.20	0.08	38.1	201
L837707		41.4	0.81	0.43	<0.1	0.01	0.068	0.05	0.5	0.7	0.47	346	1.13	<0.01	0.9	47.8
L837708		42.3	0.71	0.48	<0.1	0.01	0.072	0.03	1.1	0.2	1.65	302	0.36	0.01	0.8	17.4
L837709		43.7	0.51	0.42	<0.1	0.02	0.099	0.02	<0.5	0.3	0.24	289	2.02	<0.01	0.9	70.4
L837710		41.3	0.41	0.36	<0.1	0.01	0.097	0.02	<0.5	0.4	0.52	338	0.67	<0.01	0.7	53.2
L837711		42.0	0.59	0.42	<0.1	0.01	0.082	0.01	0.5	0.4	1.42	440	0.48	0.01	0.7	33.3
L837712		0.73	3.04	0.06	0.1	<0.01	<0.005	0.48	3.8	6.0	7.14	605	2.86	0.03	0.6	15.7
L837713		0.39	0.27	0.05	<0.1	<0.01	0.009	0.03	2.3	4.8	2.11	394	0.13	0.01	0.2	<0.2
K242078		2.04	7.08	0.08	0.6	0.02	0.050	0.39	4.8	11.1	8.40	552	1.25	0.11	2.4	72.2
K242079		2.33	3.53	0.06	0.4	0.01	0.023	0.47	3.5	10.8	4.72	294	2.60	0.07	2.0	111.5
K242080		2.39	3.99	0.07	0.5	0.01	0.069	0.49	4.2	11.7	3.76	258	4.64	0.07	1.9	33.2
K242081		1.85	4.05	0.07	0.5	0.01	0.022	0.52	3.0	8.0	4.30	332	1.95	0.07	1.9	49.7
K242082		0.18	0.44	0.08	<0.1	<0.01	<0.005	0.05	3.2	4.1	12.25	287	1.16	0.01	0.2	7.4
K242083		0.22	1.63	0.10	0.1	0.02	0.204	0.14	4.0	12.8	11.65	213	1.75	0.05	0.6	20.8
K242084		0.64	1.43	0.10	0.1	0.01	0.007	0.22	4.0	14.2	12.10	269	2.32	0.03	0.5	30.2
K242085		4.81	26.8	0.18	1.8	0.01	0.093	2.91	15.3	55.5	6.63	120	6.34	0.32	20.6	45.6
K242086		2.90	19.80	0.10	1.7	0.02	0.059	1.30	14.0	25.3	6.96	72	3.38	0.45	12.8	42.6
K242087		0.40	1.23	0.06	0.1	<0.01	0.005	0.38	4.5	8.8	12.25	142	0.96	0.02	0.8	4.0
K242088		0.68	2.92	0.07	0.2	<0.01	0.019	0.58	5.6	12.2	11.50	180	0.91	0.04	1.6	5.8
K242089		0.48	1.94	0.08	0.2	0.02	0.048	0.12	5.1	10.3	10.90	278	1.44	0.08	0.6	48.2
K242090		0.66	5.36	0.06	0.2	<0.01	0.025	0.21	15.6	7.0	9.10	785	0.86	0.07	0.7	30.6
K242091		0.24	0.65	0.08	<0.1	<0.01	0.015	0.07	3.7	4.1	11.80	471	1.06	0.01	0.2	9.3
K242092		0.80	1.07	0.14	<0.1	0.19	0.324	0.03	9.9	5.2	11.35	400	4.57	0.04	0.8	18.8
K242093		0.35	1.45	0.07	0.1	0.46	0.716	0.13	9.5	8.6	6.83	567	1.44	0.02	0.4	15.2
K242094		0.72	1.75	0.10	0.1	0.01	0.009	0.14	9.2	6.8	11.40	910	0.68	0.04	0.5	19.0
K242095		1.07	4.96	1.00	<0.1	2.73	6.58	0.03	8.4	9.8	10.85	125	9.26	0.04	0.2	38.3
K242096		0.45	0.71	0.05	0.1	0.01	0.019	0.10	4.3	5.7	12.05	366	1.81	0.01	0.4	17.0
K242097		0.13	1.37	0.09	0.1	0.01	0.020	0.22	5.4	11.2	10.40	265	0.43	0.02	0.5	10.5
K242098		0.18	0.98	0.12	0.1	0.03	0.033	0.09	3.8	5.3	12.40	211	1.34	0.03	0.4	20.4
K242099		0.22	0.96	0.14	0.1	<0.01	<0.005	0.17	4.4	8.3	12.85	405	0.76	0.01	0.4	8.9
K242100		0.14	0.65	0.18	<0.1	<0.01	<0.005	0.10	4.0	5.2	12.90	367	0.26	<0.01	0.3	4.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC Regional- Area I- J

**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
K242147		1020	9.6	367	0.004	0.30	0.41	9.1	8	5.1	126.5	0.48	0.20	4.7	0.248	2.45
L837701		110	18.7	22.8	0.008	0.10	7.08	0.4	1	5.4	115.0	<0.05	<0.05	0.2	0.006	0.27
L837702		550	734	91.1	0.004	0.83	154.0	0.8	3	173.5	267	<0.05	0.11	0.6	0.014	0.60
L837703		1160	25.3	82.7	0.004	0.35	3.41	1.8	2	50.6	358	0.07	<0.05	1.1	0.033	0.52
L837704		590	24.5	15.4	0.007	0.78	11.10	0.8	10	25.1	180.0	<0.05	<0.05	0.3	0.012	0.17
L837705		90	180.0	16.6	0.002	0.11	69.7	0.4	1	17.1	130.0	<0.05	<0.05	0.3	0.006	0.15
L837706		890	4.1	269	0.012	2.12	1.08	20.5	11	6.5	45.3	1.72	0.11	3.1	0.918	3.62
L837707		10	7.1	12.3	0.003	>10.0	4.16	0.4	4	3.0	3.4	<0.05	0.39	<0.2	0.007	0.22
L837708		20	7.8	5.4	<0.002	>10.0	1.45	0.5	9	11.3	3.1	<0.05	0.46	<0.2	<0.005	0.05
L837709		10	8.1	7.1	0.002	>10.0	2.31	0.3	4	10.6	2.2	<0.05	0.44	<0.2	<0.005	0.13
L837710		10	13.0	4.6	0.002	>10.0	2.59	0.2	3	5.6	3.9	<0.05	0.43	<0.2	<0.005	0.12
L837711		10	7.4	1.8	0.002	>10.0	1.17	0.3	11	9.5	4.1	<0.05	0.36	<0.2	<0.005	0.04
L837712		120	2.2	74.0	<0.002	0.41	0.43	1.6	1	0.6	169.5	0.05	<0.05	0.6	0.024	0.86
L837713		20	1.9	2.8	<0.002	0.11	<0.05	0.3	1	<0.2	202	<0.05	<0.05	<0.2	0.005	0.02
K242078		6960	1.6	44.9	<0.002	0.06	0.52	3.4	2	10.9	32.0	0.20	<0.05	1.9	0.064	0.31
K242079		880	2.7	62.4	0.002	0.07	0.56	2.4	3	6.4	13.8	0.13	<0.05	1.2	0.047	0.33
K242080		930	2.8	66.6	0.008	0.07	0.77	3.3	2	6.3	22.7	0.13	0.05	1.4	0.048	2.81
K242081		780	2.7	65.0	<0.002	0.03	0.52	2.2	2	7.4	14.3	0.15	0.06	1.2	0.049	0.40
K242082		130	10.3	10.9	0.002	0.05	3.48	0.2	1	1.6	144.5	<0.05	<0.05	<0.2	<0.005	0.10
K242083		630	51.3	25.6	0.006	0.16	14.95	0.6	3	11.9	139.5	<0.05	<0.05	0.3	0.012	0.24
K242084		180	24.6	45.7	0.014	0.16	20.0	0.5	9	12.1	136.5	<0.05	<0.05	0.4	0.011	0.45
K242085		210	4.2	327	0.004	0.47	0.27	9.5	2	17.3	242	1.52	0.06	10.6	0.521	3.28
K242086		160	3.0	113.5	0.003	1.77	0.74	11.9	2	23.7	213	0.90	<0.05	10.5	0.367	0.99
K242087		50	1.2	23.9	<0.002	0.08	<0.05	1.1	1	0.4	152.5	0.06	<0.05	0.7	0.027	0.40
K242088		60	1.8	89.7	<0.002	0.09	0.16	2.2	1	1.5	148.0	0.11	<0.05	1.2	0.049	0.64
K242089		420	22.3	13.5	0.010	0.47	2.29	0.8	5	20.6	164.5	0.05	<0.05	0.7	0.017	0.21
K242090		1840	5.7	33.2	0.002	0.04	0.82	1.5	1	9.5	72.3	0.05	<0.05	0.9	0.025	0.22
K242091		50	2.1	9.8	<0.002	0.01	2.37	0.3	1	4.2	164.0	<0.05	<0.05	<0.2	0.005	0.12
K242092		90	6710	2.1	<0.002	0.10	2790	0.5	21	28.2	123.0	<0.05	2.51	0.2	0.007	0.10
K242093		330	656	35.3	0.002	0.39	132.0	0.6	3	89.8	376	<0.05	0.07	0.4	0.008	0.32
K242094		1080	9.1	19.9	0.006	0.27	1.89	0.9	2	1.4	185.5	0.05	<0.05	0.8	0.015	0.24
K242095		130	>10000	3.1	0.010	1.26	>10000	0.7	281	>500	30.1	<0.05	3.66	0.3	0.010	2.59
K242096		90	85.1	10.7	0.003	0.05	37.0	0.4	2	19.0	237	<0.05	<0.05	0.3	0.007	0.16
K242097		70	114.0	29.1	0.004	0.03	49.4	0.5	1	14.4	287	<0.05	<0.05	0.3	0.011	0.29
K242098		90	16.0	8.4	0.002	0.09	3.56	0.4	1	13.3	244	<0.05	<0.05	0.2	0.008	0.11
K242099		210	12.1	21.4	0.003	0.04	7.88	0.4	1	5.0	172.5	<0.05	<0.05	0.3	0.009	0.24
K242100		150	2.8	14.4	0.002	0.07	0.40	0.3	1	1.3	163.0	<0.05	<0.05	<0.2	0.005	0.14





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Project: ATAC Regional- Area I- J

**CERTIFICATE OF ANALYSIS WH12126844**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	Sb- XRF10	Sn- XRF05	
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	Sb	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.01	5
K242147		5.3	506	91.7	25.4	57	39.9					
L837701		2.2	311	5.0	11.8	489	2.7					
L837702		6.9	335	2.3	10.3	300	5.9					
L837703		8.3	219	1.2	28.0	1120	10.2					
L837704		3.2	129	1.6	23.3	34	4.7					
L837705		1.6	60	0.9	9.3	660	2.4					
L837706		1.8	148	9.1	13.8	210	20.8					
L837707		2.0	8	13.5	2.6	48	1.1					
L837708		0.4	7	2.0	6.6	34	0.6					
L837709		1.5	6	1.5	2.2	81	1.5					
L837710		0.6	5	0.8	1.8	56	0.7					
L837711		0.9	7	1.9	3.1	70	<0.5					
L837712		1.5	85	1.1	8.4	5	4.3					
L837713		0.4	4	0.2	1.6	9	0.7					
K242078		7.4	85	1.0	21.9	632	22.8					
K242079		4.4	88	0.7	11.3	806	18.2					
K242080		7.2	104	1.1	5.0	308	20.4					
K242081		0.8	72	1.6	13.1	414	18.2					
K242082		2.0	113	1.4	3.0	50	1.2					
K242083		7.1	431	1.0	4.1	88	4.5					
K242084		4.9	476	3.5	3.3	249	4.0					
K242085		8.6	72	1.5	6.8	42	61.7					
K242086		6.6	77	3.0	7.6	24	60.3					
K242087		0.9	6	0.8	2.5	5	3.9					
K242088		1.3	12	0.5	3.3	10	6.2					
K242089		6.6	663	1.2	4.0	165	7.6					
K242090		2.0	161	4.8	19.3	167	9.1					
K242091		1.3	78	1.4	3.0	114	1.7					
K242092		8.7	157	3.5	16.1	308	1.7					
K242093		5.3	169	1.3	11.2	732	3.0					
K242094		10.8	155	2.2	14.2	21	3.8					
K242095		53.4	270	25.1	5.8	4610	2.4	1090	11.90	4.98	>10000	
K242096		1.2	92	2.5	4.1	198	2.2					
K242097		2.6	135	1.2	4.3	33	2.4					
K242098		3.2	185	0.4	3.1	47	3.1					
K242099		1.8	114	3.4	4.2	51	2.5					
K242100		1.8	70	0.5	3.5	12	1.4					

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**CERTIFICATE OF ANALYSIS WH12126844**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.





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**CERTIFICATE WH12126846**

Project: ATAC Regional- Area L  
 P.O. No.: Silt 1  
 This report is for 82 Silt samples submitted to our lab in Whitehorse, YT, Canada on 7- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD019891		0.37	0.005	0.10	1.31	18.9	<0.2	<10	180	0.49	0.28	0.12	0.29	37.8	11.7	23
DD019892		0.36	0.018	1.02	1.18	11.1	<0.2	<10	180	0.36	0.30	0.05	0.83	32.4	5.8	25
DD019893		0.32	0.014	1.05	1.02	23.7	<0.2	<10	260	0.34	0.25	0.07	0.44	55.3	6.9	21
DD019894		0.24	0.018	2.08	1.62	31.7	<0.2	<10	510	0.54	0.31	0.26	0.24	43.6	7.6	36
DD019895		0.39	0.011	1.21	1.28	22.3	<0.2	<10	350	0.39	0.28	0.29	1.35	48.4	9.8	27
DD019896		0.29	0.545	1.02	2.00	15.4	<0.2	<10	270	0.50	0.30	0.46	0.79	35.6	16.1	67
DD019897		0.25	0.010	0.60	1.60	12.7	<0.2	<10	230	0.46	0.28	1.06	0.53	26.8	14.9	51
DD019898		0.36	0.008	0.22	0.90	9.2	<0.2	<10	170	0.35	0.19	2.51	0.86	24.9	9.0	21
DD019899		0.25	0.006	0.19	0.88	8.1	<0.2	<10	160	0.33	0.20	1.76	0.63	26.0	8.9	20
DD019900		0.27	0.006	0.25	0.97	8.0	<0.2	<10	190	0.36	0.18	1.73	0.75	25.4	9.5	24
DD019901		0.31	0.119	0.24	0.98	12.9	<0.2	<10	240	0.34	0.21	2.52	0.56	24.4	9.9	25
DD019902		0.40	0.003	0.09	2.65	6.3	<0.2	<10	200	1.58	0.14	0.81	1.64	45.0	16.5	19
DD019903		0.37	0.002	0.06	4.38	2.0	<0.2	<10	330	2.33	0.05	1.17	0.18	60.0	36.1	146
DD019904		0.43	0.005	0.06	3.85	2.6	<0.2	<10	270	1.99	0.05	1.45	0.19	67.6	32.9	129
DD019905		0.25	0.003	0.06	4.29	2.6	<0.2	<10	200	1.86	0.05	1.87	0.69	49.5	38.1	158
DD019906		0.16	0.002	0.07	3.49	3.0	<0.2	<10	150	1.74	0.09	1.58	0.34	44.2	24.0	69
DD019907		0.14	0.003	0.05	3.51	2.7	<0.2	<10	100	1.77	0.07	1.06	0.19	37.3	20.0	24
DD019909		0.21	0.002	0.13	3.67	3.6	<0.2	<10	180	1.55	0.12	1.45	0.31	43.2	29.0	84
DD019910		0.22	0.009	0.38	1.19	11.0	<0.2	<10	250	0.43	0.19	1.97	0.70	25.9	11.0	34
DD019911		0.44	0.003	0.10	2.70	3.3	<0.2	<10	140	0.92	0.13	2.71	0.28	40.0	18.6	47
DD019912		0.22	0.003	0.14	1.96	6.1	<0.2	<10	210	0.77	0.18	3.76	0.32	34.3	15.7	39
DD019913		0.35	0.003	0.14	1.83	10.4	<0.2	<10	300	0.89	0.26	2.73	0.30	38.5	14.8	33
DD019914		0.48	0.003	0.19	1.79	11.7	<0.2	<10	420	0.85	0.28	1.15	0.29	34.8	13.1	33
DD019915		0.34	0.002	0.16	1.54	8.6	<0.2	<10	250	0.83	0.25	4.37	0.38	34.3	15.4	31
DD019916		0.19	0.002	0.10	1.57	2.8	<0.2	<10	230	0.56	0.16	2.57	0.39	30.7	13.9	23
DD019917		0.17	0.002	0.14	1.35	3.1	<0.2	<10	270	0.56	0.25	3.61	0.79	36.2	13.0	20
DD019918		0.33	0.002	0.11	1.44	3.1	<0.2	<10	240	0.64	0.23	3.49	0.66	39.5	14.2	21
DD019919		0.19	0.002	0.16	1.37	3.3	<0.2	<10	270	0.55	0.28	3.84	0.91	35.9	12.9	21
DD019920		0.24	0.001	0.09	1.43	1.6	<0.2	<10	320	0.57	0.16	3.43	0.47	50.7	13.6	13
DD019921		0.26	0.002	0.08	1.59	2.0	<0.2	<10	300	0.61	0.10	2.42	0.23	53.9	15.7	17
DD019922		0.30	0.002	0.07	1.59	0.6	<0.2	<10	350	0.60	0.05	1.57	0.11	66.2	14.2	12
DD019923		0.22	0.001	0.05	2.12	1.6	<0.2	<10	450	0.81	0.09	1.12	0.14	70.8	14.5	14
DD019924		0.34	0.002	0.06	2.31	3.6	<0.2	<10	500	0.63	0.12	0.69	0.14	38.4	16.0	19
DD019925		0.25	0.002	0.04	2.02	5.7	<0.2	<10	160	0.52	0.15	0.15	0.19	25.6	9.8	17
DD019926		0.43	0.002	0.10	3.32	3.7	<0.2	<10	190	1.16	0.08	1.10	0.14	29.2	30.7	73
DD019927		0.18	0.002	0.05	5.21	0.8	<0.2	<10	90	1.54	0.02	1.18	0.04	37.7	24.6	8
DD019928		0.27	0.002	0.06	2.72	8.9	<0.2	<10	100	1.58	0.21	0.47	0.23	67.4	16.7	30
DD019962		0.39	0.004	0.12	0.96	6.1	<0.2	<10	250	0.37	0.21	7.40	0.42	25.8	11.6	24
DD019963		0.37	0.002	0.14	1.00	6.6	<0.2	<10	240	0.32	0.19	6.83	0.40	24.8	11.7	25
DD019964		0.33	0.003	0.11	0.89	6.0	<0.2	<10	100	0.34	0.19	6.45	0.43	22.9	10.6	21

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC Regional- Area L  
**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019891		0.79	57.5	3.65	4.01	0.06	0.02	0.13	0.032	0.05	16.6	12.3	0.34	773	3.11	0.01
DD019892		0.59	46.7	4.93	4.31	0.07	<0.02	0.09	0.031	0.07	16.5	9.5	0.27	291	4.09	0.03
DD019893		0.53	59.9	4.08	3.49	0.06	<0.02	0.32	0.040	0.06	28.9	8.9	0.24	280	10.65	0.02
DD019894		1.00	93.5	5.24	4.56	0.09	<0.02	0.33	0.051	0.08	23.7	14.5	0.51	245	5.45	0.02
DD019895		0.76	75.4	4.39	4.08	0.08	<0.02	0.24	0.042	0.07	26.1	15.9	0.41	480	6.52	0.02
DD019896		0.84	85.9	5.04	6.71	0.06	0.02	0.14	0.030	0.12	17.6	17.2	1.11	726	3.63	0.01
DD019897		0.95	61.9	3.97	5.19	0.05	0.05	0.09	0.023	0.08	13.9	15.0	0.93	1360	3.66	0.01
DD019898		0.47	32.2	2.31	2.76	0.05	0.05	0.06	0.023	0.06	12.1	10.9	1.58	452	1.13	0.02
DD019899		0.51	26.4	2.22	2.77	0.05	0.06	0.06	0.021	0.05	12.6	11.0	1.15	383	1.00	0.01
DD019900		0.48	30.9	2.49	3.06	0.05	0.04	0.07	0.025	0.05	12.6	12.2	1.13	494	1.05	0.01
DD019901		0.69	25.5	2.56	3.16	0.06	0.03	0.07	0.023	0.06	12.3	14.0	1.53	1120	1.27	0.01
DD019902		1.46	15.2	5.41	11.35	0.09	0.06	0.03	0.051	0.24	17.7	16.8	1.66	1200	2.72	0.01
DD019903		2.12	42.7	8.09	18.30	0.23	0.04	0.02	0.068	0.77	27.5	17.2	3.70	2000	0.77	0.01
DD019904		1.62	43.1	7.09	16.20	0.23	0.04	0.02	0.046	0.66	33.8	18.6	3.67	1440	0.98	0.01
DD019905		2.17	70.2	7.47	18.35	0.14	0.04	0.05	0.070	0.43	28.2	19.5	4.10	1520	0.76	0.01
DD019906		1.30	28.8	6.39	14.00	0.13	0.05	0.04	0.054	0.30	21.5	17.5	3.16	1150	0.83	0.01
DD019907		0.96	14.5	6.62	14.80	0.15	0.06	0.01	0.062	0.19	16.8	18.8	2.86	1020	0.91	0.01
DD019909		1.40	34.4	6.50	15.10	0.14	0.06	0.04	0.061	0.30	22.7	17.3	3.16	1260	0.87	0.01
DD019910		0.60	43.1	2.80	3.79	0.05	0.03	0.07	0.021	0.06	14.3	13.7	1.14	588	1.26	0.01
DD019911		0.76	18.4	4.98	10.60	0.10	0.07	0.05	0.042	0.16	20.4	13.0	3.05	998	0.71	0.01
DD019912		0.79	24.0	3.89	7.25	0.08	0.06	0.06	0.040	0.11	16.5	10.8	2.83	846	1.04	0.01
DD019913		0.84	27.0	3.97	6.11	0.07	0.07	0.08	0.038	0.12	18.9	11.8	2.03	1040	2.13	0.01
DD019914		0.88	25.3	3.73	5.27	0.06	0.07	0.11	0.040	0.08	17.4	13.0	1.02	711	1.52	<0.01
DD019915		0.70	25.5	3.43	5.32	0.06	0.08	0.10	0.037	0.11	17.3	10.2	3.11	914	1.36	0.01
DD019916		0.97	16.6	3.25	5.86	0.07	0.06	0.08	0.029	0.15	16.0	9.1	1.99	977	1.09	0.01
DD019917		1.18	20.2	3.02	5.10	0.09	0.04	0.17	0.035	0.16	19.4	8.4	2.41	1140	2.31	0.01
DD019918		1.25	21.1	3.19	5.87	0.09	0.05	0.14	0.034	0.18	21.4	9.6	2.47	1050	2.07	0.01
DD019919		1.08	21.8	3.13	5.05	0.07	0.04	0.22	0.042	0.17	19.3	8.2	2.52	1200	2.49	0.01
DD019920		1.67	19.0	3.09	5.80	0.11	0.05	0.12	0.030	0.22	27.6	9.1	2.38	1310	2.35	0.01
DD019921		1.58	21.4	3.24	6.50	0.09	0.05	0.07	0.026	0.28	28.1	10.0	1.95	1080	2.36	0.01
DD019922		2.21	16.1	3.44	6.59	0.13	0.07	0.04	0.022	0.31	33.8	10.2	1.47	1200	1.81	0.01
DD019923		2.49	25.4	4.55	8.45	0.12	0.04	0.03	0.032	0.32	39.3	14.6	1.65	1260	1.56	0.01
DD019924		1.25	19.1	4.60	9.13	0.06	0.03	0.04	0.029	0.48	17.6	11.3	1.67	1500	2.45	0.01
DD019925		0.83	6.2	3.61	8.96	0.05	<0.02	0.03	0.024	0.12	12.3	11.4	0.93	913	1.42	<0.01
DD019926		0.84	27.9	6.15	12.50	0.09	0.05	0.02	0.026	0.17	14.3	16.6	3.37	1280	0.64	0.01
DD019927		0.93	7.8	8.04	16.10	0.14	0.05	0.02	0.058	0.21	13.7	21.3	3.79	1360	0.28	0.01
DD019928		0.79	18.8	4.54	8.34	0.07	0.09	0.03	0.066	0.05	18.3	14.7	1.03	779	2.49	0.01
DD019962		0.57	25.3	2.22	2.95	0.06	0.09	0.05	0.021	0.07	12.6	10.1	3.82	690	1.12	0.01
DD019963		0.56	25.5	2.29	3.08	0.07	0.10	0.04	0.021	0.07	12.2	10.1	3.64	672	1.08	0.01
DD019964		0.45	22.6	2.14	2.73	0.05	0.07	0.04	0.018	0.06	11.4	8.7	3.63	712	1.03	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019891		0.71	42.8	640	25.6	7.3	0.001	0.03	1.04	2.1	0.7	0.5	15.0	<0.01	0.08	1.5
DD019892		0.68	26.6	1300	21.8	9.6	<0.001	0.20	1.80	0.6	1.4	0.4	120.5	<0.01	0.10	0.2
DD019893		0.37	33.3	1190	18.4	6.9	<0.001	0.15	3.26	0.7	3.4	0.4	80.2	<0.01	0.13	0.4
DD019894		1.21	43.8	1480	22.3	9.6	<0.001	0.15	2.56	2.2	3.0	0.4	96.4	<0.01	0.11	1.0
DD019895		0.58	37.7	1520	19.1	11.0	0.002	0.15	2.43	1.1	2.8	0.3	110.5	<0.01	0.09	0.6
DD019896		3.82	44.2	1690	18.3	12.0	0.001	0.10	1.19	3.0	1.7	0.4	76.5	<0.01	0.08	1.8
DD019897		1.92	41.0	1660	16.7	11.3	<0.001	0.06	0.87	2.8	0.8	0.3	81.8	<0.01	0.11	2.0
DD019898		0.79	30.3	940	15.7	5.1	0.004	0.02	0.83	2.8	0.8	0.3	41.9	<0.01	0.02	3.0
DD019899		0.84	28.0	970	14.6	5.6	0.003	0.02	0.78	2.7	0.9	0.3	39.2	<0.01	0.01	3.0
DD019900		1.24	29.0	1110	14.7	5.7	0.003	0.04	0.79	2.7	1.3	0.3	50.2	<0.01	0.03	2.5
DD019901		1.04	27.2	1130	17.0	6.6	0.007	0.06	0.85	2.5	3.0	0.3	59.1	<0.01	0.03	2.1
DD019902		6.11	17.1	1770	12.0	24.3	<0.001	0.03	0.65	3.5	0.7	0.9	81.6	0.01	0.02	1.3
DD019903		4.80	106.5	2820	6.5	74.6	0.001	0.02	0.23	8.3	0.5	0.9	126.5	0.01	0.02	1.9
DD019904		4.58	99.6	3580	5.8	53.0	<0.001	0.02	0.20	6.3	0.7	0.6	199.0	0.01	<0.01	2.4
DD019905		5.18	110.0	2920	9.2	49.4	<0.001	0.06	0.19	7.0	0.4	0.4	245	0.01	<0.01	1.6
DD019906		6.38	50.7	2560	9.5	36.3	<0.001	0.05	0.25	4.8	0.4	0.5	105.0	0.01	<0.01	1.5
DD019907		6.84	17.7	2510	6.8	20.8	<0.001	0.03	0.20	4.5	0.6	0.6	98.5	0.01	0.02	1.7
DD019909		6.90	61.0	2610	14.5	37.9	<0.001	0.04	0.25	5.5	0.6	0.5	118.5	0.01	<0.01	1.7
DD019910		1.91	33.1	1350	16.1	7.9	0.004	0.07	0.96	2.6	2.5	0.3	75.7	<0.01	0.05	1.8
DD019911		7.29	33.7	2230	15.6	18.5	<0.001	0.03	0.37	3.9	0.5	0.5	86.5	0.01	<0.01	2.0
DD019912		5.48	32.9	1400	20.1	13.0	<0.001	0.05	0.80	3.7	0.5	0.4	61.8	0.01	<0.01	1.8
DD019913		4.57	31.2	860	26.8	9.4	<0.001	0.02	1.33	4.5	0.7	0.5	35.4	0.01	0.01	2.7
DD019914		1.50	30.4	290	29.7	8.4	<0.001	0.01	1.40	5.6	0.5	0.5	17.0	<0.01	0.02	3.6
DD019915		3.70	29.0	1150	30.5	8.9	<0.001	0.03	1.01	4.2	0.9	0.4	45.6	0.01	0.02	2.6
DD019916		5.84	21.8	1290	27.7	17.9	<0.001	0.05	0.45	2.5	0.4	0.4	202	0.01	<0.01	1.5
DD019917		4.56	20.6	1230	54.5	18.0	<0.001	0.05	0.57	2.5	0.8	0.4	244	0.01	<0.01	1.4
DD019918		5.29	22.5	1370	45.6	19.9	<0.001	0.05	0.62	2.8	0.6	0.4	239	0.01	<0.01	1.7
DD019919		4.09	20.6	1260	67.1	17.5	<0.001	0.06	0.61	2.5	0.5	0.4	308	0.01	0.01	1.4
DD019920		6.09	14.7	1660	34.8	23.5	0.001	0.05	0.34	2.5	0.6	0.4	365	0.01	<0.01	1.6
DD019921		5.31	17.6	1840	14.8	28.7	<0.001	0.05	0.35	2.7	0.9	0.4	390	0.01	<0.01	1.8
DD019922		8.39	11.7	2280	7.3	28.2	<0.001	0.04	0.16	2.5	1.0	0.4	406	0.02	<0.01	2.3
DD019923		8.00	12.1	2080	9.7	24.7	<0.001	0.02	0.29	2.7	0.6	0.5	266	0.01	<0.01	1.8
DD019924		6.03	14.4	1200	14.5	33.4	<0.001	0.02	0.33	2.4	0.6	0.6	177.5	0.01	<0.01	1.6
DD019925		4.90	11.4	830	10.8	24.2	0.001	0.01	0.42	1.9	0.2	0.8	13.9	<0.01	0.02	0.9
DD019926		5.56	60.4	2520	7.6	19.8	<0.001	0.01	0.27	3.8	0.7	0.6	79.7	0.01	<0.01	1.6
DD019927		7.84	5.9	2720	4.2	15.9	<0.001	0.02	0.09	4.4	0.7	1.1	102.0	0.01	<0.01	1.5
DD019928		8.70	26.9	1300	14.1	7.2	0.001	0.01	0.99	3.3	0.4	0.6	31.0	0.03	0.01	2.8
DD019962		1.86	27.0	850	29.4	5.1	0.001	0.02	1.00	3.2	0.5	0.2	70.1	<0.01	<0.01	3.0
DD019963		2.04	26.9	830	27.0	5.2	<0.001	0.02	1.02	3.1	0.5	0.2	64.4	<0.01	0.01	2.8
DD019964		1.69	25.2	780	24.5	4.6	0.001	0.01	0.82	2.8	0.3	0.2	51.6	<0.01	0.01	2.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019891		0.031	0.10	1.28	42	0.43	5.52	104	<0.5
DD019892		0.026	0.09	0.87	41	0.12	2.77	161	<0.5
DD019893		0.014	0.10	2.23	37	0.10	4.60	173	<0.5
DD019894		0.030	0.12	2.05	46	0.12	7.83	174	<0.5
DD019895		0.021	0.12	2.08	40	0.10	6.18	197	<0.5
DD019896		0.134	0.08	1.55	74	0.17	5.59	132	0.9
DD019897		0.068	0.06	1.60	56	0.10	6.32	126	1.6
DD019898		0.042	0.06	0.67	35	0.29	7.68	126	1.8
DD019899		0.040	0.07	0.57	34	0.41	7.15	116	1.8
DD019900		0.049	0.05	0.59	36	0.17	6.90	122	1.5
DD019901		0.039	0.07	0.83	36	0.12	6.58	112	1.1
DD019902		0.329	0.09	0.61	76	0.20	9.81	138	2.3
DD019903		0.479	0.14	0.45	160	0.20	12.70	121	1.1
DD019904		0.356	0.10	0.45	130	0.16	11.40	111	1.2
DD019905		0.228	0.13	0.29	176	0.14	10.20	124	1.3
DD019906		0.243	0.10	0.47	102	0.14	8.97	117	1.5
DD019907		0.254	0.07	0.29	96	0.15	6.89	107	2.1
DD019909		0.253	0.13	0.42	115	0.16	9.37	133	1.7
DD019910		0.061	0.08	0.83	44	0.24	6.77	132	1.2
DD019911		0.217	0.08	0.44	73	0.18	8.84	121	2.4
DD019912		0.140	0.10	0.58	57	0.26	9.01	106	2.1
DD019913		0.092	0.13	0.64	53	0.27	11.75	106	2.2
DD019914		0.038	0.14	0.63	53	0.21	11.80	99	2.3
DD019915		0.093	0.11	0.54	45	0.19	10.85	107	2.5
DD019916		0.167	0.10	0.48	37	0.16	8.75	154	1.7
DD019917		0.130	0.13	0.64	32	0.10	10.75	222	1.2
DD019918		0.147	0.13	0.60	35	0.11	11.70	202	1.5
DD019919		0.123	0.14	0.70	33	0.13	11.05	249	1.2
DD019920		0.162	0.10	0.71	29	0.10	13.55	146	1.3
DD019921		0.182	0.12	0.78	34	0.08	16.00	113	1.3
DD019922		0.250	0.09	0.75	35	0.12	16.30	100	1.7
DD019923		0.263	0.09	0.67	43	0.14	16.25	122	1.1
DD019924		0.253	0.09	0.47	49	0.16	6.84	121	0.9
DD019925		0.196	0.09	0.44	53	0.17	4.22	79	0.5
DD019926		0.391	0.07	0.52	84	0.27	9.66	107	1.7
DD019927		0.624	0.05	0.25	86	0.25	10.65	112	1.6
DD019928		0.183	0.09	0.49	52	0.36	6.95	95	2.8
DD019962		0.074	0.08	0.61	38	0.17	7.80	91	3.4
DD019963		0.075	0.10	0.58	39	0.13	7.41	92	3.2
DD019964		0.064	0.08	0.53	35	0.12	7.10	79	2.4



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019965		0.32	0.004	0.09	0.83	6.9	<0.2	<10	80	0.26	0.18	7.07	0.43	23.4	9.5	21
DD019966		0.20	0.007	0.13	1.61	7.5	<0.2	<10	140	0.41	0.20	3.09	0.54	38.2	15.8	29
DD019967		0.15	0.003	0.46	2.53	7.7	<0.2	<10	170	0.46	0.13	1.69	0.57	36.1	32.0	80
DD019968		0.18	0.002	0.18	2.98	7.7	<0.2	<10	160	0.40	0.11	1.61	0.57	42.0	36.4	90
DD019969		0.17	0.002	0.18	2.16	11.3	<0.2	<10	160	0.52	0.15	1.55	0.54	30.6	30.0	166
DD019970		0.16	0.003	0.18	2.08	11.3	<0.2	<10	210	0.48	0.16	1.49	0.61	27.4	26.7	131
DD019971		0.17	0.003	0.14	2.05	8.8	<0.2	<10	180	0.36	0.10	1.63	0.43	31.6	27.8	103
DD019972		0.20	0.002	0.17	2.42	7.6	<0.2	<10	170	0.42	0.13	1.00	0.37	34.2	29.2	138
DD019973		0.11	0.001	0.11	2.18	7.3	<0.2	<10	180	0.43	0.10	1.62	0.38	28.2	27.5	108
DD019974		0.21	0.004	0.12	2.13	6.1	<0.2	<10	140	0.35	0.07	1.50	0.27	31.1	24.2	102
DD019975		0.12	0.001	0.14	2.24	7.4	<0.2	<10	220	0.46	0.12	2.44	0.47	27.7	30.3	106
DD019976		0.16	<0.001	0.13	3.91	10.1	<0.2	<10	270	0.58	0.14	2.95	0.52	52.1	46.1	189
DD019977		0.16	0.002	0.12	2.37	7.5	<0.2	<10	190	0.46	0.10	2.10	0.39	30.0	30.4	114
DD019978		0.16	0.001	0.11	2.05	6.5	<0.2	<10	150	0.33	0.09	1.20	0.26	27.5	25.5	98
DD019979		0.18	<0.001	0.64	1.01	7.5	<0.2	<10	150	0.35	0.19	1.04	0.88	28.1	11.7	29
DD019980		0.18	0.004	0.33	0.91	8.7	<0.2	<10	190	0.28	0.16	1.25	0.92	24.6	10.9	24
DD019981		0.22	0.004	0.18	0.94	10.9	<0.2	<10	160	0.36	0.27	3.36	0.56	24.7	11.6	21
DD019982		0.25	0.002	0.19	0.92	8.8	<0.2	<10	180	0.31	0.23	3.66	0.50	25.6	11.7	21
DD019983		0.26	0.012	0.19	0.94	11.3	<0.2	<10	210	0.34	0.28	4.21	0.52	23.6	11.9	24
DD019984		0.22	0.012	0.16	0.87	8.8	<0.2	<10	180	0.32	0.20	3.83	0.39	28.4	10.4	22
DD019985		0.17	0.001	0.18	2.22	10.3	<0.2	<10	380	0.65	0.12	1.95	0.51	36.1	27.0	96
DD019986		0.27	0.057	0.17	0.86	10.4	<0.2	<10	190	0.47	0.22	3.66	0.60	26.8	10.9	20
DD019987		0.19	0.004	0.15	1.37	7.6	<0.2	<10	270	0.61	0.12	2.78	0.29	33.2	14.2	46
DD019988		0.28	0.010	0.14	0.81	8.9	<0.2	<10	190	0.41	0.21	3.83	0.57	28.7	9.4	21
DD019989		0.30	0.008	0.16	0.85	10.7	<0.2	<10	190	0.31	0.21	4.40	0.53	22.6	12.3	21
DD019990		0.27	0.003	0.12	1.60	8.6	<0.2	<10	230	0.50	0.14	2.17	0.32	40.5	18.0	55
DD019991		0.30	0.004	0.22	0.96	14.2	<0.2	<10	380	0.38	0.24	3.52	0.99	22.9	13.0	21
DD019992		0.24	0.006	0.18	0.92	10.6	<0.2	<10	160	0.31	0.21	2.41	0.50	24.6	11.0	21
DD019993		0.15	0.145	0.24	1.08	11.4	<0.2	<10	160	0.38	0.25	2.00	0.54	24.6	11.9	24
DD019994		0.19	0.008	0.19	1.03	11.9	<0.2	<10	150	0.37	0.24	1.86	0.47	25.9	11.9	22
DD019995		0.22	0.006	0.29	1.02	13.9	<0.2	<10	230	0.30	0.27	1.41	0.66	24.0	12.0	22
DD019996		0.20	0.004	0.30	0.95	12.0	<0.2	<10	240	0.31	0.26	2.16	0.74	22.9	12.1	21
DD019997		0.21	0.006	0.51	1.03	11.9	<0.2	<10	290	0.33	0.29	1.15	1.05	21.4	9.5	23
DD019998		0.14	0.009	0.56	1.15	17.6	<0.2	<10	360	0.32	0.33	0.71	1.07	22.5	12.9	23
DD019999		0.13	0.004	0.33	1.05	17.0	<0.2	<10	260	0.33	0.35	0.70	0.39	21.0	14.2	19
DD020000		0.22	0.016	1.28	1.25	23.8	<0.2	<10	560	0.23	0.32	0.30	3.46	25.3	13.8	28
DD020956		0.50	0.001	0.06	3.66	3.8	<0.2	<10	120	1.55	0.06	0.92	0.17	44.1	24.7	11
DD020957		0.56	0.002	0.07	4.01	2.8	<0.2	<10	110	1.67	0.06	0.80	0.16	46.1	24.4	14
DD027012		0.18	0.001	0.35	1.59	11.3	<0.2	<10	370	0.51	0.29	3.17	1.03	22.3	14.4	50
DD027057		0.08	0.003	0.07	0.03	1045	<0.2	<10	950	<0.05	<0.01	2.23	0.02	0.34	0.4	23





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD019965		0.48	24.6	2.08	2.67	0.05	0.08	0.03	0.020	0.06	11.8	8.7	3.40	558	1.23	0.01
DD019966		0.63	36.3	3.34	4.86	0.07	0.06	0.07	0.029	0.08	20.4	13.9	2.14	838	1.12	0.01
DD019967		1.29	66.7	4.97	7.98	0.10	0.05	0.07	0.040	0.12	18.5	19.3	2.11	812	1.09	0.01
DD019968		1.38	59.2	5.72	9.97	0.14	0.05	0.05	0.040	0.12	21.6	23.1	2.56	883	1.08	0.01
DD019969		1.47	59.8	4.28	7.15	0.08	0.07	0.12	0.033	0.09	16.0	17.4	1.94	703	0.93	0.01
DD019970		1.24	55.6	4.29	6.50	0.06	0.05	0.12	0.032	0.09	13.8	15.6	1.55	986	1.03	0.01
DD019971		0.85	42.2	4.18	6.86	0.06	0.05	0.09	0.030	0.08	16.6	15.6	1.75	1390	0.65	0.01
DD019972		1.15	47.4	4.31	7.74	0.07	0.06	0.10	0.030	0.07	18.0	17.1	1.94	731	0.79	0.01
DD019973		0.65	38.5	4.19	7.26	0.07	0.05	0.08	0.029	0.07	14.4	16.5	1.77	971	0.52	0.01
DD019974		0.57	30.3	3.96	7.28	0.08	0.06	0.07	0.022	0.07	16.0	16.5	1.87	614	0.51	0.01
DD019975		0.68	55.3	4.06	7.43	0.06	0.05	0.09	0.032	0.08	13.9	17.2	1.97	957	0.55	0.01
DD019976		0.85	61.0	6.80	13.40	0.09	0.12	0.08	0.044	0.11	27.0	29.8	3.43	1120	0.79	0.01
DD019977		0.63	53.7	4.49	7.83	0.07	0.07	0.06	0.030	0.08	15.0	16.7	2.12	927	0.71	0.01
DD019978		0.52	31.6	3.79	6.93	0.08	0.08	0.05	0.024	0.06	13.9	16.3	1.62	602	0.50	0.01
DD019979		0.68	30.0	2.52	3.40	0.10	0.05	0.05	0.025	0.06	14.4	12.9	0.75	725	0.64	0.01
DD019980		0.49	25.9	2.43	3.08	0.09	0.05	0.12	0.019	0.05	12.4	11.7	0.77	1400	0.58	0.01
DD019981		0.75	30.2	2.37	2.95	0.07	0.05	0.06	0.024	0.06	12.4	13.5	2.09	667	1.17	0.01
DD019982		0.66	25.2	2.28	2.87	0.07	0.05	0.05	0.025	0.06	12.7	12.7	2.31	495	1.05	0.01
DD019983		0.62	24.8	2.42	3.02	0.08	0.05	0.31	0.029	0.06	11.7	12.9	2.71	379	1.02	0.01
DD019984		0.64	23.7	2.23	2.84	0.08	0.05	0.06	0.023	0.05	14.3	12.3	2.44	401	1.07	0.01
DD019985		3.70	57.1	4.24	8.33	0.18	0.06	0.04	0.031	0.35	18.7	24.5	1.91	1110	1.42	0.01
DD019986		0.67	23.3	2.29	2.88	0.05	0.05	0.06	0.026	0.05	13.3	19.4	2.31	881	1.24	0.01
DD019987		1.59	25.2	2.77	4.87	0.11	0.04	0.07	0.028	0.14	15.6	19.3	1.87	589	0.66	0.01
DD019988		0.63	20.5	2.19	2.81	0.06	0.05	0.05	0.025	0.05	14.3	18.6	2.41	690	1.12	0.01
DD019989		0.78	28.8	2.21	2.87	0.07	0.05	0.04	0.028	0.06	11.3	12.5	2.34	1130	1.33	0.01
DD019990		0.78	25.9	3.37	6.19	0.12	0.04	0.03	0.029	0.09	20.7	17.6	1.68	711	1.14	<0.01
DD019991		0.82	33.4	2.62	3.11	0.07	0.05	0.06	0.024	0.07	11.9	13.3	2.16	4420	1.87	0.01
DD019992		0.77	33.7	2.34	2.84	0.07	0.05	0.04	0.024	0.06	12.4	13.0	1.51	734	1.21	0.01
DD019993		0.90	38.1	2.54	3.21	0.07	0.05	0.08	0.028	0.07	12.8	15.5	1.21	739	1.11	0.01
DD019994		0.94	35.9	2.51	3.18	0.07	0.04	0.06	0.022	0.05	13.4	14.9	1.16	900	1.16	0.01
DD019995		0.68	36.4	2.68	3.16	0.07	0.05	0.04	0.030	0.06	11.8	13.1	1.01	1040	1.52	<0.01
DD019996		0.62	34.0	2.47	2.97	0.07	0.05	0.06	0.030	0.06	11.2	12.3	1.40	974	1.39	<0.01
DD019997		0.82	53.5	2.40	2.94	0.07	0.05	0.05	0.027	0.07	10.7	13.9	0.65	450	1.23	<0.01
DD019998		1.09	58.4	2.94	3.33	0.07	0.04	0.06	0.027	0.09	11.0	14.4	0.56	1070	2.10	<0.01
DD019999		0.64	45.5	2.66	3.02	0.06	0.05	0.06	0.023	0.07	10.1	12.7	0.53	1200	1.62	<0.01
DD020000		2.37	85.1	3.71	4.01	0.08	0.02	0.06	0.025	0.12	12.6	15.6	0.47	1540	5.07	<0.01
DD020956		0.78	15.5	6.84	16.95	0.24	0.11	0.03	0.065	0.28	20.0	19.7	2.72	1140	1.33	0.01
DD020957		0.89	12.2	7.36	18.30	0.23	0.03	0.02	0.072	0.35	20.2	20.6	2.92	1220	1.26	0.01
DD027012		0.76	31.9	2.79	4.71	0.07	0.06	0.08	0.063	0.08	11.1	16.1	2.32	624	0.91	0.01
DD027057		0.06	2.3	33.2	0.29	0.84	0.03	0.03	0.005	0.04	0.2	0.1	0.10	81	1.16	0.01

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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019965		1.58	25.8	830	16.4	4.5	<0.001	<0.01	0.97	3.0	0.4	0.2	63.0	<0.01	<0.01	2.7
DD019966		5.09	40.1	1490	21.6	7.6	0.001	0.05	0.95	3.9	0.7	0.3	66.1	0.01	0.01	3.1
DD019967		2.55	82.9	1970	13.0	14.4	0.001	0.06	0.74	7.4	1.4	0.3	70.9	<0.01	0.02	2.5
DD019968		2.76	84.5	2310	11.7	14.8	<0.001	0.04	0.73	8.1	1.3	0.2	68.1	<0.01	<0.01	2.9
DD019969		2.82	126.0	1370	21.2	9.2	<0.001	0.04	1.22	6.0	1.5	0.3	41.6	<0.01	0.01	2.5
DD019970		2.31	111.5	1300	23.2	8.7	0.001	0.06	1.33	5.3	0.9	0.3	44.0	<0.01	0.02	2.1
DD019971		3.03	92.7	1480	18.2	7.8	0.001	0.06	0.95	5.1	0.7	0.3	50.3	<0.01	0.02	2.4
DD019972		3.26	98.3	1520	20.9	7.4	<0.001	0.03	1.03	6.5	0.9	0.3	34.5	<0.01	<0.01	2.9
DD019973		3.62	87.4	1480	14.7	6.8	<0.001	0.06	0.80	4.9	0.7	0.3	47.2	0.01	<0.01	1.9
DD019974		4.51	77.5	1640	12.4	6.2	<0.001	0.04	0.63	4.7	0.4	0.3	41.7	0.01	<0.01	2.3
DD019975		3.39	100.5	1400	18.9	7.6	<0.001	0.09	0.93	5.1	0.7	0.3	65.6	0.01	<0.01	1.7
DD019976		8.52	150.5	2890	23.0	10.0	0.001	0.08	1.05	8.1	0.8	0.5	84.7	0.01	0.01	3.9
DD019977		5.68	103.0	1760	17.4	7.2	<0.001	0.05	0.80	5.1	0.8	0.3	55.7	0.01	<0.01	2.2
DD019978		4.71	76.8	1450	14.8	5.6	<0.001	0.04	0.61	5.0	0.5	0.3	34.9	0.01	0.01	2.4
DD019979		1.95	39.4	1250	14.6	8.9	0.009	0.04	0.60	3.2	5.4	0.3	65.7	<0.01	0.03	3.0
DD019980		1.51	34.9	1130	13.1	6.5	0.013	0.06	0.52	2.9	6.7	0.2	78.6	<0.01	0.02	2.6
DD019981		0.83	26.4	1000	18.6	6.6	0.002	0.03	0.89	3.2	1.2	0.2	50.1	<0.01	0.03	2.7
DD019982		0.96	24.2	1040	19.5	6.0	0.003	0.03	0.82	3.0	1.3	0.2	53.2	<0.01	0.03	3.1
DD019983		1.19	25.6	1040	19.4	6.2	0.002	0.04	0.85	3.4	2.2	0.3	54.7	<0.01	0.02	3.0
DD019984		1.13	23.3	1060	16.1	5.6	0.001	0.02	0.86	2.9	1.1	0.2	47.2	<0.01	0.03	3.2
DD019985		6.34	55.3	2230	10.0	38.1	0.002	0.05	0.56	8.4	1.5	0.3	129.5	0.01	0.04	2.9
DD019986		0.93	22.5	1000	18.0	5.1	0.002	0.03	0.96	3.1	1.1	0.3	53.3	<0.01	0.03	3.0
DD019987		4.37	33.5	1770	11.3	15.8	0.003	0.05	0.48	3.3	1.2	0.2	115.0	0.01	0.01	2.4
DD019988		1.10	19.1	1080	16.6	5.4	0.002	0.02	0.91	2.9	1.0	0.2	53.2	<0.01	0.03	3.4
DD019989		1.13	27.6	1030	17.6	6.9	0.001	0.02	0.87	3.1	1.0	0.3	71.5	<0.01	0.03	2.7
DD019990		4.41	31.7	1960	15.2	11.3	0.001	0.02	0.57	4.8	0.7	0.3	89.0	0.01	0.02	3.3
DD019991		0.70	35.5	1050	19.2	6.7	0.002	0.04	0.91	3.1	2.0	0.2	60.4	<0.01	0.04	2.6
DD019992		0.81	24.8	1180	17.9	6.7	0.002	0.02	0.85	2.7	1.0	0.2	53.6	<0.01	0.04	2.7
DD019993		0.72	27.2	1110	19.5	8.3	0.003	0.05	0.83	3.0	1.2	0.3	62.1	<0.01	0.05	2.3
DD019994		0.76	26.6	1190	17.8	6.7	0.002	0.04	0.77	2.8	1.3	0.2	58.4	<0.01	0.04	2.4
DD019995		0.73	30.1	810	23.3	8.4	0.001	0.03	0.88	2.8	1.3	0.2	36.9	<0.01	0.05	2.4
DD019996		0.79	29.1	780	25.0	7.5	0.002	0.04	0.95	2.8	1.6	0.2	40.0	<0.01	0.04	2.3
DD019997		0.70	32.0	750	22.9	10.8	0.002	0.05	1.01	2.5	2.4	0.2	46.9	<0.01	0.06	1.8
DD019998		0.69	37.7	740	20.5	14.9	0.002	0.06	0.91	2.6	2.6	0.2	58.5	<0.01	0.07	1.7
DD019999		0.53	30.0	690	20.9	9.3	0.003	0.05	0.65	2.7	1.9	0.2	56.5	<0.01	0.07	2.0
DD020000		0.58	42.1	700	15.9	29.8	0.002	0.07	1.30	1.8	3.6	0.2	55.0	<0.01	0.13	1.0
DD020956		2.58	10.5	2870	7.2	24.3	<0.001	<0.01	0.21	5.8	0.5	0.5	112.5	0.01	0.01	2.7
DD020957		4.05	9.6	2680	6.8	28.4	<0.001	0.02	0.17	5.0	0.5	0.5	94.6	0.01	0.02	1.4
DD027012		0.65	39.2	950	61.1	8.4	<0.001	0.06	1.69	5.1	0.8	0.6	33.7	<0.01	0.03	1.8
DD027057		0.47	3.7	>10000	0.6	0.5	0.005	0.44	0.19	3.0	0.7	<0.2	157.5	<0.01	0.03	0.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019965		0.063	0.08	0.56	32	0.12	7.53	79	3.4
DD019966		0.096	0.10	0.74	54	0.16	9.60	104	2.0
DD019967		0.091	0.11	0.71	83	0.12	11.20	111	1.7
DD019968		0.104	0.11	0.69	92	0.21	11.30	116	1.7
DD019969		0.095	0.10	0.57	71	0.15	10.10	121	2.3
DD019970		0.067	0.11	0.67	69	0.13	9.06	123	1.9
DD019971		0.091	0.10	0.48	63	0.17	8.89	114	1.8
DD019972		0.105	0.09	0.64	78	0.13	9.37	116	2.0
DD019973		0.106	0.07	0.46	67	0.18	7.99	106	1.9
DD019974		0.136	0.05	0.46	68	0.13	7.92	100	2.1
DD019975		0.087	0.08	0.58	67	0.11	8.76	113	2.2
DD019976		0.225	0.10	0.90	115	0.31	14.70	175	4.1
DD019977		0.152	0.08	0.61	71	0.20	9.26	108	2.6
DD019978		0.133	0.06	0.53	64	0.21	8.01	99	2.5
DD019979		0.059	0.06	1.95	38	0.25	8.28	142	2.0
DD019980		0.047	0.06	1.48	33	0.25	6.95	133	1.6
DD019981		0.033	0.08	0.92	35	0.17	7.87	116	1.5
DD019982		0.035	0.08	1.02	34	0.37	7.85	108	1.7
DD019983		0.043	0.08	0.73	38	1.48	7.75	107	1.8
DD019984		0.041	0.07	0.72	35	0.66	7.87	95	1.7
DD019985		0.213	0.20	1.03	105	0.21	8.09	112	2.0
DD019986		0.034	0.07	0.77	33	0.19	7.92	98	1.6
DD019987		0.112	0.09	0.70	57	0.17	6.71	87	1.4
DD019988		0.040	0.07	0.73	34	0.89	7.90	91	1.8
DD019989		0.038	0.08	0.82	32	0.14	7.64	106	1.8
DD019990		0.136	0.08	0.64	74	0.15	7.79	99	1.4
DD019991		0.030	0.10	0.86	35	0.90	7.89	134	1.5
DD019992		0.033	0.07	0.99	33	0.13	8.02	111	1.6
DD019993		0.030	0.08	0.99	34	0.18	8.18	123	1.5
DD019994		0.031	0.07	1.29	34	0.55	8.28	110	1.3
DD019995		0.029	0.09	0.83	34	0.43	6.56	128	1.5
DD019996		0.029	0.09	0.89	33	0.21	6.95	129	1.7
DD019997		0.026	0.10	1.46	32	0.10	6.73	153	1.8
DD019998		0.028	0.13	1.84	31	0.11	6.30	154	1.3
DD019999		0.016	0.09	1.72	25	1.03	5.64	99	1.6
DD020000		0.046	0.24	2.15	48	0.09	4.01	247	0.5
DD020956		0.269	0.08	0.36	95	0.23	8.24	109	4.0
DD020957		0.217	0.08	0.36	93	0.22	7.79	115	0.8
DD027012		0.044	0.12	0.98	53	0.27	8.80	253	1.7
DD027057		<0.005	<0.02	0.17	20	0.15	1.74	4	1.9

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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD027059		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027237		0.48	0.001	0.11	0.18	13	<0.2	<10	70	0.20	0.30	15.40	0.29	6.65	3.7	5
		0.13	0.001	0.17	0.67	35.9	<0.2	10	170	0.52	0.20	8.39	1.93	11.80	13.4	13

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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm	ME- MS41 Cu ppm	ME- MS41 Fe %	ME- MS41 Ga ppm	ME- MS41 Ge ppm	ME- MS41 Hf ppm	ME- MS41 Hg ppm	ME- MS41 In ppm	ME- MS41 K %	ME- MS41 La ppm	ME- MS41 Li ppm	ME- MS41 Mg %	ME- MS41 Mn ppm	ME- MS41 Mo ppm	ME- MS41 Na %
DD027059		0.20	7.4	0.76	0.60	<0.05	0.03	0.17	0.010	0.02	3.5	2.0	9.68	403	6.45	0.02
DD027237		17.15	19.4	3.97	2.21	0.09	0.05	0.11	0.024	0.09	5.8	11.4	2.59	2060	0.61	0.03

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Project: ATAC Regional- Area L

**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
DD027059		0.40	12.2	340	28.8	1.4	0.001	0.01	1.11	1.1	0.4	<0.2	68.3	<0.01	0.03	0.9
DD027237		0.43	23.8	690	73.2	18.2	0.001	0.69	2.09	3.1	1.2	0.2	325	<0.01	0.25	2.0

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**CERTIFICATE OF ANALYSIS WH12126846**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 TI ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027059		0.012	0.24	1.23	17	0.06	2.83	84	1.2
DD027237		0.015	0.65	0.62	23	5.45	6.55	855	1.7

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**CERTIFICATE OF ANALYSIS WH12126846**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12132947**

Project: ATAC- Regional- Area J,G,H  
 P.O. No.: R4  
 This report is for 104 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

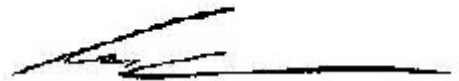
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%< 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATAC- Regional- Area J,G,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242148		0.98	0.01	0.13	6.66	5	740	1.12	0.24	17.45	0.12	67.3	24.3	72	5.05	258
K242149		0.96	<0.01	0.10	0.21	4.9	>10000	0.74	<0.01	6.10	79.4	1.86	0.4	128	0.10	922
K242150		1.25	<0.01	0.05	0.05	2.1	>10000	0.06	<0.01	3.80	0.70	0.37	0.3	74	0.10	1.3
K242151		0.87	0.04	>100	0.04	>10000	80	<0.05	0.07	2.13	>1000	0.65	0.7	84	<0.05	2870
K242152		1.06	0.01	0.49	0.09	43	390	0.18	0.49	21.5	1.76	2.43	0.9	12	0.08	7.1
K242153		0.28	<0.01	1.19	0.02	47	140	0.07	0.01	21.0	4.67	0.37	3.5	4	<0.05	17.7
K242154		0.60	<0.01	0.26	0.12	19	150	0.07	0.02	34.9	0.98	3.36	0.8	4	0.18	3.6
K242155		0.28	<0.01	0.06	0.03	10	340	0.12	0.01	36.4	0.23	0.52	0.6	5	<0.05	1.7
K242156		0.89	<0.01	0.57	0.21	19.9	250	0.10	0.06	0.97	0.26	39.4	3.0	273	0.12	5.8
K242157		0.72	<0.01	0.13	0.41	9	190	0.22	0.02	23.1	0.17	4.71	1.4	7	0.56	2.4
K242158		0.56	<0.01	0.20	0.57	15	60	0.19	0.12	19.10	0.16	8.23	6.7	20	0.63	17.3
K242159		0.43	<0.01	0.14	0.16	8	110	0.07	0.07	23.6	0.38	2.13	1.1	6	0.11	2.3
K242160		0.50	<0.01	0.15	0.26	8	40	0.11	0.03	23.6	0.13	3.29	1.1	8	0.22	1.7
K242161		0.70	0.02	0.32	0.06	15	20	0.05	0.01	30.4	0.13	1.76	0.7	9	0.06	1.5
K242162		0.45	<0.01	0.12	0.14	9	60	0.09	0.01	23.4	0.21	1.49	0.8	5	0.11	1.8
K242163		0.40	<0.01	0.06	0.18	7	40	0.10	0.01	24.1	0.15	2.18	1.0	7	0.13	1.7
K242164		0.54	<0.01	0.02	0.13	<5	130	0.07	0.01	23.6	0.04	1.71	1.0	4	0.09	1.4
K242165		0.49	<0.01	0.16	0.16	14.0	1770	<0.05	0.09	8.05	0.32	2.72	0.7	48	0.16	3.1
K242166		0.46	<0.01	0.06	0.54	10	1250	0.12	0.02	22.3	0.12	4.83	1.5	9	0.62	3.0
K242167		0.78	<0.01	0.06	0.13	9	740	0.06	0.01	24.1	0.13	0.85	0.9	6	0.13	1.4
K242168		0.54	<0.01	0.14	0.30	39	70	0.08	0.03	34.2	0.52	2.36	0.8	10	0.36	2.7
K242169		0.22	<0.01	0.04	0.55	11	120	0.15	0.03	21.7	0.07	7.99	1.4	13	0.79	2.5
K242170		0.05	<0.01	0.14	0.74	135	80	0.24	0.05	25.0	0.36	7.77	3.2	36	0.40	10.9
K242171		0.11	<0.01	0.10	0.83	30	120	0.17	0.04	23.9	0.10	7.61	1.6	13	1.71	8.4
K242172		0.22	0.01	0.77	1.34	452	200	0.17	0.04	0.39	1.61	11.25	21.4	24	1.32	47.0
K242173		0.66	<0.01	0.60	0.66	2620	290	0.70	0.13	0.60	7.64	3.59	47.4	72	0.39	68.8
K242174		0.59	<0.01	0.01	0.07	<5	20	<0.05	0.01	21.8	0.07	0.65	0.7	5	0.08	4.4
K242175		0.55	<0.01	0.01	0.05	6	10	<0.05	<0.01	22.3	0.18	0.75	0.7	5	<0.05	1.4
K242176		0.34	<0.01	0.04	0.06	<5	10	0.13	<0.01	32.6	1.74	1.83	1.2	2	0.05	1.6
K242177		0.48	<0.01	0.04	0.11	9	20	0.08	0.01	25.3	0.25	1.32	2.2	2	0.11	1.3
K242178		0.93	<0.01	0.04	0.12	6	20	0.06	0.01	23.1	0.05	1.69	4.0	3	0.13	1.2
K242179		0.59	0.01	0.70	3.18	13.4	410	0.85	0.23	0.40	1.46	29.6	1.3	196	5.71	20.5
L837714		0.18	<0.01	0.09	1.14	3.5	910	2.19	0.02	3.42	3.41	2.11	1.6	221	0.82	13.4
L837715		0.24	<0.01	<0.01	8.35	17.3	3650	3.35	0.07	3.02	2.07	74.6	2.3	25	3.58	0.6
L837716		0.20	<0.01	0.10	0.33	11.6	170	0.43	0.02	0.11	>0.05	0.26	83.7	4260	1.95	13.2
L837717		0.29	<0.01	0.10	0.05	2.9	>10000	0.05	0.01	2.89	3.31	0.55	0.5	73	0.08	11.7
L837718		0.38	<0.01	0.08	0.05	2.0	>10000	0.09	0.01	1.74	0.37	0.23	0.5	95	0.06	10.6
L837719		0.19	<0.01	0.81	0.25	523	900	0.15	0.01	2.67	1.99	0.51	41.0	1030	0.59	13.0
L837720		0.68	0.01	0.92	5.27	28.6	3690	1.37	0.29	0.33	0.32	114.5	7.1	127	4.02	14.8
L837721		0.46	0.01	1.70	3.36	42.4	4490	1.10	0.24	0.13	0.17	63.7	0.9	131	2.35	8.6





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Project: ATAC- Regional- Area JG,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K242148		3.78	18.05	0.11	1.0	0.03	0.185	2.12	32.4	11.3	2.33	1160	0.86	0.46	11.7	31.8
K242149		0.13	6.74	0.08	0.1	1.08	0.055	<0.01	1.9	0.5	0.02	246	2.65	1.29	0.6	47.7
K242150		0.09	0.40	<0.05	0.2	0.03	<0.005	0.01	4.0	0.4	0.19	66	0.71	0.23	0.1	5.7
K242151		3.72	3.64	0.08	<0.1	>100	0.032	0.01	0.6	0.9	2.55	2210	0.39	<0.01	0.1	13.2
K242152		0.25	0.27	<0.05	<0.1	0.36	0.014	0.03	1.6	2.5	12.95	503	0.23	0.02	0.3	1.7
K242153		0.95	0.11	<0.05	<0.1	1.09	0.009	0.01	<0.5	3.7	12.65	343	0.09	0.02	0.2	2.6
K242154		0.05	0.39	<0.05	0.1	0.27	<0.005	0.04	6.1	0.5	0.23	57	0.14	<0.01	0.4	2.6
K242155		0.03	0.09	<0.05	<0.1	0.04	<0.005	0.01	0.5	<0.2	0.18	72	0.07	<0.01	0.3	<0.2
K242156		2.57	0.75	0.07	0.6	0.05	0.025	0.08	18.5	1.7	0.05	481	0.77	<0.01	0.8	7.4
K242157		0.26	1.01	<0.05	0.1	0.07	0.005	0.18	2.3	2.7	10.40	80	0.21	0.02	0.8	2.0
K242158		1.70	1.48	0.05	0.3	0.02	0.014	0.18	4.0	9.3	11.45	259	0.22	0.03	1.3	6.7
K242159		0.07	0.37	0.05	<0.1	0.03	<0.005	0.06	1.1	1.0	12.45	43	0.30	0.01	0.3	2.5
K242160		0.11	0.60	0.07	0.1	0.01	0.005	0.11	1.6	1.8	12.45	19	0.45	0.02	0.6	1.9
K242161		0.04	0.17	0.07	<0.1	0.02	<0.005	0.01	1.0	0.6	5.87	38	0.16	0.01	0.2	3.8
K242162		0.07	0.35	0.05	<0.1	0.03	<0.005	0.05	0.8	1.4	11.20	22	0.34	0.02	0.3	1.9
K242163		0.10	0.45	0.08	0.1	0.01	<0.005	0.08	1.1	1.3	11.30	21	0.38	0.02	0.4	2.3
K242164		0.04	0.36	0.10	<0.1	0.04	<0.005	0.05	0.9	1.0	11.45	20	0.90	0.01	0.2	3.5
K242165		0.56	0.45	0.06	0.1	0.15	0.005	0.06	1.6	0.6	3.89	8	4.42	<0.01	0.2	11.1
K242166		0.30	1.38	0.07	0.2	0.07	0.005	0.25	2.5	2.5	11.25	29	5.62	0.02	0.8	6.0
K242167		0.08	0.42	0.12	<0.1	0.01	<0.005	0.06	0.5	0.6	11.00	27	0.53	0.01	0.3	4.4
K242168		0.11	0.71	0.09	0.1	0.10	0.005	0.12	2.6	0.6	0.54	69	0.14	<0.01	0.7	6.5
K242169		0.36	1.33	0.09	0.2	0.03	0.005	0.26	4.0	2.1	10.55	68	0.79	0.02	0.8	4.0
K242170		2.80	1.71	0.07	0.2	0.04	0.013	0.18	4.0	2.0	7.18	67	1.87	0.01	1.0	18.5
K242171		0.46	1.60	0.05	0.3	0.02	0.008	0.28	3.9	3.5	9.81	55	0.65	0.03	1.4	8.6
K242172		>50	3.67	0.92	0.6	0.5	0.023	0.40	6.8	3.6	0.27	14	220	0.01	3.1	70.7
K242173		>50	9.05	2.75	0.5	2	0.071	0.23	2.4	1.7	0.38	356	150.5	<0.01	1.2	1310
K242174		0.26	0.19	0.09	<0.1	0.01	<0.005	0.02	<0.5	1.7	12.70	14	1.46	0.02	0.2	4.9
K242175		0.06	0.21	0.21	<0.1	0.01	<0.005	0.01	<0.5	1.2	12.65	22	0.28	0.01	0.2	5.0
K242176		0.08	0.26	0.23	<0.1	0.20	<0.005	0.01	1.2	1.1	4.03	112	0.24	<0.01	0.3	30.5
K242177		0.10	0.39	0.17	<0.1	0.04	<0.005	0.03	0.7	0.7	8.45	59	0.38	0.01	0.3	29.2
K242178		0.14	0.44	0.19	<0.1	0.07	<0.005	0.04	0.8	0.8	9.91	70	0.67	0.01	0.3	30.4
K242179		1.35	8.77	0.13	1.3	0.12	0.035	1.03	16.1	15.2	0.26	18	4.63	0.26	4.5	15.7
L837714		0.46	3.49	0.06	0.2	0.02	0.007	0.29	1.3	5.0	4.00	514	2.58	0.03	0.4	33.4
L837715		1.79	21.6	0.14	7.6	0.05	0.019	3.14	48.5	19.4	0.58	666	0.23	3.77	118.5	129.0
L837716		3.13	0.92	0.15	<0.1	0.12	<0.005	0.04	<0.5	5.5	12.85	271	0.52	0.01	0.3	1550
L837717		0.09	0.48	<0.05	0.1	0.09	<0.005	0.01	1.4	0.6	0.18	55	0.54	0.13	0.2	10.0
L837718		0.10	0.31	<0.05	0.1	0.01	<0.005	0.01	1.0	0.3	0.04	12	0.68	0.10	0.1	11.6
L837719		3.43	1.06	0.11	<0.1	0.46	<0.005	0.08	<0.5	2.2	14.05	1850	1.05	<0.01	0.3	583
L837720		2.63	15.65	0.17	2.6	0.78	0.040	1.30	60.9	29.7	0.44	309	17.55	0.49	14.9	32.5
L837721		0.49	10.05	0.13	1.7	2.35	0.020	1.20	37.7	12.3	0.24	26	16.60	0.02	7.0	36.1



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**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
K242148		230	8.4	138.0	<0.002	1.33	0.41	11.7	2	9.3	312	0.75	<0.05	9.4	0.403	0.60	
K242149		70	2.6	0.7	0.004	<0.01	1.53	0.6	7	1.0	2760	<0.05	<0.05	<0.2	0.006	0.19	
K242150		550	3.6	0.9	<0.002	0.02	0.60	0.2	<1	<0.2	1165	<0.05	<0.05	<0.2	<0.005	0.14	
K242151		10	>10000	0.6	<0.002	>10.0	4350	0.2	20	40.6	99.8	<0.05	<0.05	0.2	<0.005	0.17	
K242152		290	238	1.2	<0.002	0.05	8.13	0.3	1	0.2	75.7	<0.05	<0.05	0.3	0.005	0.06	
K242153		30	750	0.3	<0.002	0.06	23.0	0.8	1	0.2	112.5	<0.05	<0.05	0.2	<0.005	<0.02	
K242154		110	99.5	2.0	<0.002	0.01	2.75	0.5	1	<0.2	226	<0.05	<0.05	0.4	0.005	0.05	
K242155		20	32.6	0.3	<0.002	0.01	1.26	0.3	1	<0.2	18.4	<0.05	<0.05	0.2	<0.005	0.03	
K242156		80	58.2	3.2	<0.002	0.01	1.93	0.3	1	0.5	26.1	<0.05	<0.05	1.5	0.033	0.04	
K242157		30	28.2	7.3	<0.002	0.02	1.48	0.9	1	0.2	154.0	<0.05	<0.05	0.9	0.019	0.06	
K242158		250	25.3	8.0	<0.002	0.48	1.06	1.9	1	0.3	204	0.08	<0.05	1.4	0.032	0.09	
K242159		100	22.8	2.5	<0.002	0.01	0.79	0.4	1	<0.2	139.5	<0.05	<0.05	0.4	0.006	0.05	
K242160		90	14.2	4.6	<0.002	0.01	1.14	0.6	1	0.2	145.0	<0.05	<0.05	0.7	0.013	0.06	
K242161		40	23.6	0.5	<0.002	0.01	1.32	0.2	1	0.2	69.9	<0.05	<0.05	0.3	<0.005	0.04	
K242162		110	13.1	2.2	<0.002	0.02	0.49	0.3	1	<0.2	182.0	<0.05	<0.05	0.3	<0.005	0.03	
K242163		80	8.4	3.1	<0.002	0.02	0.47	0.5	1	<0.2	164.0	<0.05	<0.05	0.5	0.010	0.05	
K242164		30	3.1	2.0	0.003	0.01	0.16	0.3	1	<0.2	170.0	<0.05	<0.05	0.3	<0.005	0.05	
K242165		40	10.7	2.5	<0.002	0.13	1.03	0.2	1	0.2	456	<0.05	<0.05	0.5	0.005	0.08	
K242166		70	5.1	10.1	0.006	0.07	0.56	0.9	1	0.2	156.0	0.05	<0.05	1.0	0.023	0.25	
K242167		40	7.8	2.3	<0.002	0.03	0.50	0.3	1	<0.2	94.3	<0.05	<0.05	0.4	0.006	0.07	
K242168		80	15.9	4.8	<0.002	<0.01	1.12	1.1	1	0.2	47.7	<0.05	<0.05	0.5	0.013	0.17	
K242169		30	7.0	10.5	<0.002	0.05	0.37	0.9	1	0.2	168.0	0.05	<0.05	1.0	0.023	0.29	
K242170		70	14.8	6.7	<0.002	0.03	5.30	1.8	1	0.3	132.0	0.06	<0.05	1.7	0.027	0.17	
K242171		50	10.3	11.9	<0.002	0.03	6.04	1.7	1	0.3	206	0.08	<0.05	1.5	0.039	0.53	
K242172		130	40.6	17.4	0.011	0.36	9.82	3.2	2	0.6	26.5	0.18	0.07	2.3	0.081	6.62	
K242173		2430	44.3	9.3	0.003	0.01	466	0.7	8	0.9	11.4	<0.05	0.22	0.6	0.009	0.95	
K242174		40	2.6	1.1	0.002	<0.01	0.63	0.1	1	<0.2	105.0	<0.05	<0.05	<0.2	<0.005	0.06	
K242175		30	2.0	0.6	<0.002	<0.01	0.50	0.2	1	<0.2	121.5	<0.05	<0.05	<0.2	<0.005	0.04	
K242176		120	2.9	0.8	<0.002	0.02	0.26	0.3	1	<0.2	40.5	<0.05	<0.05	<0.2	<0.005	0.25	
K242177		70	5.0	1.4	<0.002	0.01	0.53	0.6	1	<0.2	77.0	<0.05	<0.05	<0.2	<0.005	0.11	
K242178		40	3.7	1.9	<0.002	<0.01	0.26	0.3	1	<0.2	93.0	<0.05	<0.05	<0.2	0.005	0.09	
K242179		290	15.4	73.3	0.089	0.38	1.93	6.8	12	1.1	267	0.30	0.13	4.2	0.148	0.38	
L837714		440	4.8	11.5	<0.002	0.01	0.47	1.0	1	0.3	47.3	<0.05	<0.05	0.3	0.013	1.05	
L837715		250	22.4	65.5	<0.002	0.01	1.14	0.8	1	0.7	693	1.96	0.06	14.9	0.183	0.61	
L837716		10	8.5	3.9	<0.002	0.42	1.35	3.5	2	<0.2	6.0	<0.05	<0.05	<0.2	0.005	0.03	
L837717		440	6.1	0.7	<0.002	0.02	0.62	0.2	2	<0.2	1105	<0.05	<0.05	<0.2	<0.005	0.09	
L837718		270	2.8	0.7	<0.002	0.02	0.50	0.2	1	<0.2	1215	<0.05	<0.05	<0.2	<0.005	0.10	
L837719		10	79.2	7.1	<0.002	0.44	11.35	3.5	3	0.2	173.5	<0.05	<0.05	<0.2	<0.005	0.09	
L837720		620	102.5	90.3	0.007	0.03	4.84	9.6	4	2.1	129.5	1.01	0.09	12.7	0.368	1.94	
L837721		640	124.0	64.1	0.020	0.08	7.87	5.2	7	1.4	89.8	0.48	0.11	7.2	0.212	3.64	





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Project: ATAC- Regional- Area JG,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1
K242148		2.1	67	1.2	20.1	88	26.7					
K242149		1.6	483	<0.1	3.9	8050	3.3					
K242150		0.3	56	0.1	2.0	67	0.5					
K242151		0.2	5	0.1	1.1	>10000	<0.5	248	14.90	26.0	1.200	407
K242152		1.9	18	0.2	1.3	379	1.5					
K242153		0.2	5	<0.1	2.4	824	1.2					
K242154		4.0	10	0.1	9.8	125	2.3					
K242155		0.8	4	<0.1	3.3	37	1.6					
K242156		0.6	6	0.2	2.7	47	19.6					
K242157		1.2	5	0.1	4.1	38	6.0					
K242158		0.7	11	0.1	5.3	33	11.0					
K242159		2.2	4	<0.1	0.8	20	2.4					
K242160		1.8	5	0.1	1.2	17	3.8					
K242161		7.7	2	<0.1	2.4	25	0.8					
K242162		2.3	5	<0.1	0.7	16	1.3					
K242163		1.9	5	0.1	1.0	11	2.6					
K242164		1.7	4	<0.1	1.0	5	1.1					
K242165		1.5	13	<0.1	0.5	41	1.9					
K242166		1.9	5	0.2	1.6	10	6.6					
K242167		2.6	15	0.1	0.5	13	1.7					
K242168		8.1	30	0.1	10.9	44	4.5					
K242169		1.2	6	0.1	3.3	14	6.1					
K242170		6.1	14	0.2	4.2	55	9.1					
K242171		8.2	13	0.2	3.2	16	11.0					
K242172		8.5	34	0.3	4.2	353	20.6					
K242173		26.2	2120	0.5	4.3	1580	23.7					
K242174		0.5	5	<0.1	0.3	6	0.9					
K242175		1.0	11	<0.1	0.8	9	0.9					
K242176		5.2	8	<0.1	4.1	234	1.2					
K242177		3.4	9	<0.1	1.9	171	1.5					
K242178		2.3	10	<0.1	1.0	34	1.4					
K242179		2.3	152	0.7	10.1	87	49.8					
L837714		0.9	1800	0.2	8.3	181	29.0					
L837715		4.9	34	0.1	9.6	562	491					
L837716		0.1	30	<0.1	0.2	252	1.4					
L837717		0.2	27	<0.1	1.6	373	1.3					
L837718		0.2	49	<0.1	0.7	20	1.5					
L837719		<0.1	16	0.1	0.9	352	0.6					
L837720		5.3	237	1.8	14.4	92	87.3					
L837721		6.3	463	1.5	9.0	32	60.2					



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Project: ATAC- Regional- Area JG,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L837722		0.68	<0.01	0.48	4.23	40.7	1740	1.07	0.21	0.27	0.61	52.3	8.3	205	3.50	29.3
L837723		0.93	<0.01	3.03	3.52	39.4	2210	1.66	0.19	1.23	1.00	36.2	1.6	229	2.69	20.8
L837724		0.34	0.04	0.64	2.92	165.5	1270	0.74	37.1	8.28	1.15	46.1	9.3	151	1.28	13.8
L837725		0.38	0.09	1.87	0.09	1820	390	0.59	14.65	10.95	6.84	15.10	9.9	37	0.07	247
L837726		0.18	0.05	1.19	0.03	576	160	0.12	10.70	27.0	11.15	36.0	3.9	15	0.05	166.5
L837727		0.53	0.02	0.79	0.02	222	70	0.08	4.15	24.3	6.99	2.74	5.4	11	0.06	247
L837728		0.57	0.10	0.66	0.03	114	50	0.07	3.04	22.4	10.50	1.82	1.4	4	0.07	190.5
L837729		0.13	NSS	12.80	0.10	4740	150	0.75	118.5	0.57	9.26	274	6.3	44	0.32	121.0
L837730		0.07	0.18	2.51	0.04	4090	130	1.07	7.61	8.98	14.30	14.90	3.6	28	<0.05	113.0
L837731		0.56	0.02	3.76	13.65	86.9	3200	1.58	4.18	1.92	0.77	142.0	20.9	9	1.86	14.0
L837732		0.46	0.07	1.62	0.09	569	240	0.09	38.6	6.14	5.08	11.90	4.7	206	0.28	692
L837733		0.16	<0.01	0.03	0.11	39	40	0.12	0.09	37.1	0.12	5.70	0.7	4	0.14	3.2
L837734		0.15	<0.01	0.07	0.56	11	60	0.26	0.38	32.3	0.45	11.90	1.4	11	0.24	9.7
L837735		0.21	<0.01	0.02	0.12	9	20	0.06	0.03	21.0	0.09	1.32	1.0	6	0.10	1.9
L837736		0.40	<0.01	0.12	0.05	18.1	20	0.09	0.09	6.48	0.25	0.48	0.8	50	0.11	3.6
L837737		0.33	<0.01	0.13	1.95	9	440	0.55	0.05	23.3	0.14	27.2	4.5	27	0.64	8.3
L837738		0.40	<0.01	0.16	0.12	53.2	40	0.09	0.07	2.99	0.24	0.67	0.6	115	0.24	4.9
L837739		0.42	<0.01	0.06	0.07	51.8	20	0.12	0.01	7.04	0.27	0.45	0.9	44	0.14	2.8
L837740		0.24	<0.01	0.43	0.05	15.1	20	0.07	0.03	4.56	0.39	0.42	0.7	134	0.25	5.3
L837741		0.51	<0.01	0.15	0.26	164.0	50	0.18	0.02	0.59	0.41	2.60	1.4	152	0.34	3.8
L837742		0.26	<0.01	0.01	0.04	10	20	0.09	0.01	21.2	0.04	0.57	0.9	4	<0.05	1.5
L837743		0.57	<0.01	0.12	0.03	<5	10	0.09	0.01	14.40	0.38	0.65	0.8	32	<0.05	2.2
L837744		0.71	<0.01	0.26	0.12	3.6	40	0.09	0.02	3.28	1.74	0.87	1.3	111	0.22	4.6
L837745		1.06	<0.01	0.06	1.91	4.3	150	0.42	0.05	9.10	0.50	23.3	3.4	89	1.33	5.6
L837746		0.49	<0.01	0.03	1.27	16.9	310	0.35	0.09	0.05	0.31	18.10	15.6	252	1.12	64.4
L837747		0.32	<0.01	0.14	0.32	3.3	80	0.10	0.02	1.23	2.33	2.57	4.2	195	0.45	4.4
L837748		1.11	<0.01	0.02	0.34	1.3	60	0.13	0.02	5.49	0.43	3.17	2.2	118	0.48	3.7
L837749		0.32	<0.01	0.01	0.06	<5	20	<0.05	0.01	23.5	0.37	1.03	0.9	5	<0.05	1.3
L837750		0.82	<0.01	0.02	0.55	7	90	0.16	0.03	24.0	0.26	3.64	0.9	8	0.65	2.7
L837751		0.32	<0.01	0.02	0.06	<5	10	<0.05	0.01	22.0	0.06	0.56	0.7	10	0.06	1.0
L837752		0.41	<0.01	0.02	0.04	5	10	<0.05	0.01	27.0	0.45	0.72	0.9	3	<0.05	1.2
L837753		0.34	<0.01	0.68	2.06	4.6	1550	0.33	0.16	0.42	0.14	18.60	0.7	185	3.53	16.3
L837754		0.52	0.01	1.41	0.58	779	150	0.08	0.23	0.38	0.95	4.98	111.0	11	0.86	524
L837755		0.10	<0.01	5.24	0.39	2500	330	0.12	0.06	0.11	2.77	6.85	130.0	12	0.87	494
G0557601		0.50	0.01	1.67	3.38	16.1	3480	1.06	0.20	0.08	0.05	35.9	1.1	144	4.01	14.5
G0557602		0.76	<0.01	0.84	0.61	18.2	3410	0.47	0.04	0.14	0.45	3.48	1.2	254	0.23	11.2
G0557603		0.30	<0.01	0.04	1.17	5.7	120	0.14	0.05	1.65	0.88	16.15	4.6	316	0.42	13.2
G0557604		0.34	<0.01	0.13	0.75	5.8	410	0.63	0.01	1.45	3.03	8.32	117.0	2530	1.49	4.1
G0557605		0.53	<0.01	1.40	2.65	96.2	3760	1.84	0.09	0.38	4.26	23.4	2.0	325	1.50	35.4
G0557606		1.99	<0.01	0.07	0.05	1.7	>10000	<0.05	0.01	1.05	0.81	0.35	0.9	166	0.06	2.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
L837722		3.99	13.65	0.16	2.0	0.17	0.043	1.04	27.8	22.3	0.43	290	4.73	0.24	13.2	47.0
L837723		1.33	10.15	0.16	0.9	1.63	0.016	1.16	22.5	7.1	0.33	91	3.04	0.02	2.8	12.2
L837724		3.85	8.06	0.13	1.0	0.17	0.687	0.97	25.9	11.0	4.65	1370	1.20	0.20	13.3	18.2
L837725		16.90	1.15	0.27	<0.1	0.3	17.85	0.01	8.7	2.9	6.94	3390	1.13	0.01	0.5	45.6
L837726		6.28	0.44	0.14	<0.1	0.18	2.93	0.01	30.9	1.2	1.55	1100	0.57	<0.01	0.4	11.0
L837727		3.69	0.16	0.08	<0.1	0.09	0.471	<0.01	1.7	2.2	7.14	464	0.31	0.01	0.3	13.6
L837728		1.75	0.13	0.06	<0.1	0.14	0.691	0.01	1.3	3.5	10.05	380	0.18	0.02	0.2	2.1
L837729		>50	4.15	1.00	0.2	0.9	48.3	0.03	255	0.5	0.28	769	6.35	<0.01	1.1	61.9
L837730		36.7	1.17	0.65	<0.1	0.5	51.0	<0.01	13.1	1.7	0.18	1800	1.38	<0.01	0.6	45.3
L837731		4.40	31.0	0.34	1.0	0.07	0.242	4.41	54.6	22.9	0.74	156	1.19	0.11	55.6	9.7
L837732		6.64	0.52	0.12	<0.1	0.19	2.25	0.04	8.4	1.7	2.39	1700	1.19	0.01	0.5	23.8
L837733		0.20	0.28	0.05	0.1	0.25	0.115	0.01	2.9	1.1	0.11	185	0.12	<0.01	0.5	<0.2
L837734		0.33	1.55	0.06	0.3	0.02	0.034	0.23	7.0	6.6	0.58	203	0.19	0.07	1.3	<0.2
L837735		0.09	0.42	0.13	<0.1	0.01	0.037	0.05	0.7	1.2	11.50	25	0.26	0.02	0.4	<0.2
L837736		0.14	1.53	0.13	<0.1	0.50	0.012	0.01	<0.5	29.0	3.70	83	0.37	0.01	0.1	1.8
L837737		0.81	4.83	0.10	1.5	0.04	0.019	0.78	13.5	23.9	1.34	195	0.83	0.40	3.6	5.5
L837738		0.25	0.71	0.05	<0.1	0.29	0.012	0.02	<0.5	39.8	1.67	71	0.77	0.01	0.2	3.3
L837739		0.26	0.61	0.07	<0.1	0.36	0.015	0.02	<0.5	31.7	4.17	204	0.41	0.01	0.2	3.7
L837740		0.23	1.61	0.07	<0.1	0.72	0.005	0.02	<0.5	16.6	2.73	89	1.03	0.01	0.1	4.3
L837741		0.61	2.84	<0.05	0.1	1.32	0.019	0.05	1.3	37.4	0.29	134	1.22	0.01	0.3	7.4
L837742		0.04	0.18	0.13	<0.1	0.12	<0.005	0.01	<0.5	0.7	12.30	25	0.17	0.01	0.2	<0.2
L837743		0.16	0.25	0.16	<0.1	0.03	<0.005	0.01	<0.5	1.7	9.05	179	0.21	0.01	0.2	3.7
L837744		0.35	0.37	0.05	<0.1	0.04	<0.005	0.03	<0.5	2.1	1.84	241	0.70	0.01	0.2	4.3
L837745		0.97	4.60	0.07	1.1	0.01	0.015	0.88	11.4	16.7	5.55	523	0.39	0.09	3.5	10.5
L837746		2.76	3.48	0.09	0.9	0.02	0.039	0.44	7.9	16.4	0.12	1090	0.90	0.01	2.7	11.7
L837747		0.54	0.90	<0.05	0.1	0.12	0.006	0.09	1.2	3.8	0.67	774	0.61	0.02	0.5	8.0
L837748		0.38	1.11	0.05	0.1	<0.01	<0.005	0.09	1.4	2.2	3.05	658	0.58	0.01	0.5	6.0
L837749		0.05	0.16	0.06	<0.1	0.01	<0.005	0.02	0.5	0.4	12.05	35	0.43	0.01	0.2	1.9
L837750		0.28	1.53	0.06	0.1	0.03	0.005	0.25	1.7	3.9	10.65	30	1.04	0.01	0.8	3.0
L837751		0.04	0.19	0.07	<0.1	<0.01	<0.005	0.02	<0.5	0.5	12.75	15	0.63	0.02	0.2	2.2
L837752		0.04	0.18	0.07	<0.1	0.02	<0.005	0.01	0.7	0.4	9.62	58	0.39	0.01	0.1	5.1
L837753		0.86	4.81	0.08	0.8	0.07	0.023	0.57	11.3	23.3	0.27	19	1.17	0.17	2.6	9.2
L837754		>50	2.52	0.94	0.3	7	0.017	0.23	3.6	1.8	0.29	14	580	0.01	1.6	207
L837755		>50	1.53	0.93	0.2	1	0.019	0.17	2.7	1.7	0.26	71	1060	0.01	1.5	672
G0557601		1.53	10.35	0.09	1.6	0.77	0.012	1.27	20.8	7.1	0.36	30	9.88	0.04	10.4	11.7
G0557602		0.61	1.73	<0.05	0.2	0.28	<0.005	0.08	3.6	3.2	0.02	29	6.66	0.03	1.0	15.9
G0557603		2.20	2.38	0.07	0.7	0.03	0.014	0.16	7.6	7.2	0.54	677	1.95	0.49	2.0	12.1
G0557604		19.85	1.28	0.32	0.2	0.2	<0.005	0.03	3.9	17.9	6.92	3920	1.10	0.02	0.9	2130
G0557605		1.04	8.40	0.10	1.0	2.04	0.015	0.70	25.5	7.5	0.11	131	9.40	0.05	4.3	58.8
G0557606		0.27	0.35	0.05	<0.1	0.03	<0.005	0.01	0.7	0.8	0.03	48	1.23	0.32	0.2	19.0



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**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L837722		1370	59.8	72.0	<0.002	0.02	3.49	7.6	3	1.6	84.1	0.85	0.08	6.6	0.304	0.78
L837723		7650	35.8	66.2	0.004	0.08	3.14	8.5	6	0.5	475	0.18	0.11	4.3	0.138	0.83
L837724		1510	45.0	35.0	<0.002	0.06	4.22	4.9	2	3.3	64.4	0.75	0.05	3.2	0.298	2.52
L837725		1010	681	0.5	<0.002	0.01	49.8	0.3	2	16.0	70.0	<0.05	0.10	<0.2	<0.005	1.67
L837726		510	41.3	0.4	<0.002	<0.01	17.20	0.2	2	1.1	13.2	<0.05	0.09	<0.2	<0.005	0.26
L837727		390	25.9	0.2	<0.002	<0.01	13.85	0.1	2	1.2	42.4	<0.05	0.05	<0.2	<0.005	0.13
L837728		180	18.0	0.2	<0.002	<0.01	8.28	0.1	2	0.7	50.1	<0.05	<0.05	<0.2	<0.005	0.08
L837729		2010	1810	2.7	0.006	0.02	1130	0.7	1	35.4	10.2	<0.05	0.07	0.2	0.010	7.69
L837730		1390	2170	0.2	0.002	<0.01	123.5	0.3	2	5.8	3.4	<0.05	0.07	<0.2	<0.005	0.44
L837731		7700	21.9	53.1	<0.002	<0.01	4.85	6.1	3	3.1	87.1	2.79	<0.05	8.3	1.030	1.43
L837732		510	63.6	1.1	<0.002	<0.01	71.4	0.2	1	63.7	23.9	<0.05	0.08	<0.2	0.006	0.86
L837733		20	7.9	0.6	<0.002	<0.01	1.83	0.4	2	0.2	45.7	<0.05	<0.05	<0.2	0.005	0.13
L837734		180	5.1	9.0	<0.002	0.02	1.00	1.2	2	1.0	676	0.07	<0.05	1.1	0.025	0.07
L837735		40	3.7	1.7	<0.002	0.01	0.36	0.3	1	<0.2	126.5	<0.05	<0.05	0.2	0.006	0.03
L837736		80	26.2	0.6	<0.002	<0.01	18.10	0.3	1	0.3	61.4	<0.05	<0.05	<0.2	<0.005	0.05
L837737		300	10.1	30.5	0.002	0.19	0.55	3.8	3	0.6	839	0.24	<0.05	4.0	0.088	0.21
L837738		140	42.2	1.1	<0.002	0.01	31.2	0.2	1	0.2	30.0	<0.05	<0.05	<0.2	<0.005	0.09
L837739		120	72.8	0.7	<0.002	<0.01	14.40	0.2	1	<0.2	54.5	<0.05	<0.05	<0.2	<0.005	0.42
L837740		30	257	0.8	<0.002	0.01	15.00	0.3	1	<0.2	27.5	<0.05	<0.05	<0.2	<0.005	0.08
L837741		180	112.5	3.1	<0.002	0.01	85.5	0.7	1	0.2	7.4	<0.05	<0.05	0.4	0.009	0.24
L837742		30	2.8	0.4	<0.002	<0.01	0.54	0.1	1	<0.2	114.0	<0.05	<0.05	<0.2	<0.005	0.20
L837743		470	46.8	0.3	<0.002	0.01	0.87	0.2	1	<0.2	78.2	<0.05	<0.05	<0.2	<0.005	<0.02
L837744		40	23.2	1.3	<0.002	0.01	0.68	0.3	1	<0.2	33.2	<0.05	<0.05	<0.2	<0.005	0.04
L837745		630	11.2	32.1	<0.002	0.01	0.51	2.7	1	0.6	56.7	0.27	<0.05	4.3	0.107	0.18
L837746		190	5.0	16.0	<0.002	0.01	0.35	4.2	1	0.6	31.2	0.17	0.08	2.5	0.130	0.12
L837747		70	14.8	4.4	<0.002	0.02	0.37	0.6	1	0.2	14.1	<0.05	<0.05	0.4	0.018	0.04
L837748		80	3.0	5.0	<0.002	0.01	0.27	0.8	1	0.2	16.7	<0.05	<0.05	0.5	0.018	0.05
L837749		30	1.5	0.6	<0.002	0.01	0.11	0.3	1	<0.2	90.6	<0.05	<0.05	<0.2	<0.005	0.02
L837750		80	2.7	9.7	<0.002	0.01	0.56	1.2	1	0.2	113.0	<0.05	<0.05	0.7	0.020	0.11
L837751		30	1.7	0.7	<0.002	0.01	0.15	0.2	1	<0.2	95.2	<0.05	<0.05	<0.2	<0.005	0.02
L837752		110	1.8	0.4	0.004	0.01	0.16	0.3	1	<0.2	98.5	<0.05	<0.05	<0.2	<0.005	0.04
L837753		150	7.7	38.8	0.043	0.30	1.46	3.2	3	0.7	115.5	0.17	0.07	2.8	0.095	0.17
L837754		60	93.6	9.3	0.023	0.14	36.7	1.3	5	4.9	45.1	0.06	0.82	1.0	0.031	5.59
L837755		30	239	6.9	0.072	0.70	47.2	1.4	3	2.2	6.8	<0.05	0.14	0.9	0.021	9.67
G0557601		220	11.5	61.3	0.007	0.07	7.84	6.7	4	1.0	25.4	0.62	0.15	4.5	0.238	0.83
G0557602		1770	4.2	4.2	0.033	0.05	1.19	1.4	2	0.3	108.0	0.07	0.05	0.6	0.032	0.21
G0557603		240	3.7	7.6	<0.002	0.02	0.38	3.4	1	0.5	55.8	0.15	<0.05	2.4	0.165	0.06
G0557604		80	11.7	2.4	<0.002	0.05	4.36	17.0	1	<0.2	31.9	<0.05	<0.05	0.2	0.017	0.06
G0557605		3300	20.0	34.6	0.011	0.04	4.82	6.5	5	0.7	282	0.30	0.22	3.7	0.142	0.98
G0557606		330	1.0	0.6	<0.002	0.07	0.48	0.2	1	<0.2	283	<0.05	<0.05	<0.2	<0.005	0.10

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional- Area JG,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1
L837722		3.0	221	1.1	13.4	208	72.8					
L837723		2.9	332	0.5	11.7	64	43.9					
L837724		1.6	64	2.6	9.1	458	41.1					
L837725		1.1	114	4.6	5.7	3680	3.3					
L837726		0.6	22	1.5	5.9	928	0.9					
L837727		0.4	12	0.8	2.9	550	<0.5					
L837728		0.4	7	0.5	2.0	330	0.5					
L837729		5.9	49	18.3	7.7	7030	9.8					
L837730		1.9	179	7.8	8.4	7060	3.6					
L837731		1.5	75	4.8	26.1	688	43.8					
L837732		0.4	26	2.5	3.4	1210	1.4					
L837733		5.0	3	0.3	5.2	34	3.5					
L837734		4.6	8	0.2	4.1	31	11.9					
L837735		0.7	3	0.1	0.8	13	1.6					
L837736		0.2	1	0.1	0.5	50	1.0					
L837737		12.5	28	0.4	9.4	45	52.8					
L837738		0.3	3	0.2	0.8	91	1.2					
L837739		0.2	2	0.1	0.7	106	2.0					
L837740		0.1	3	0.1	0.4	55	1.1					
L837741		0.2	5	0.1	1.3	170	3.0					
L837742		3.7	3	<0.1	0.5	4	0.7					
L837743		0.4	2	<0.1	1.2	49	2.5					
L837744		0.5	5	<0.1	0.4	755	1.6					
L837745		1.5	26	0.3	6.6	117	38.5					
L837746		0.5	37	0.3	8.7	31	28.6					
L837747		0.3	7	0.1	0.9	483	4.2					
L837748		0.3	6	0.1	1.1	71	4.1					
L837749		0.5	4	<0.1	0.6	12	0.8					
L837750		4.0	13	0.1	1.5	23	4.8					
L837751		0.5	3	<0.1	0.3	4	0.7					
L837752		1.5	5	<0.1	2.1	15	0.5					
L837753		1.1	70	0.4	8.6	19	31.0					
L837754		5.5	58	0.2	1.8	101	9.1					
L837755		13.9	13	0.3	4.8	152	7.3					
G0557601		3.0	188	1.1	13.3	10	60.0					
G0557602		2.5	246	0.1	4.9	14	9.2					
G0557603		0.6	46	0.4	5.8	216	23.7					
G0557604		0.4	53	0.2	9.2	221	13.4					
G0557605		12.2	1040	0.4	18.3	227	47.9					
G0557606		0.3	38	<0.1	0.5	89	1.7					



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Project: ATAC- Regional- Area J,G,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G0557607		0.82	<0.01	0.26	0.26	313	170	0.31	<0.01	0.46	0.14	0.29	33.8	1020	1.27	4.1
G0557608		0.29	<0.01	3.65	2.28	93.4	8850	1.86	0.10	1.85	1.76	24.9	3.1	361	1.32	54.3
G0557609		0.26	<0.01	2.13	4.31	414	3840	1.60	0.23	0.71	3.06	60.2	10.5	279	4.07	42.7
G0557610		0.91	0.01	0.30	2.84	120.5	520	1.73	0.09	0.14	0.38	30.5	19.9	81	1.30	266
G0557611		0.42	0.01	0.42	5.70	62.5	1500	3.84	1.70	0.38	1.24	26.3	96.0	125	1.21	654
G0557612		0.64	0.07	0.36	0.55	5	20	9.97	56.5	10.70	0.08	18.60	3.5	38	0.25	168.5
G0557613		0.57	<0.01	0.02	0.07	7	40	0.10	0.13	23.4	0.04	4.89	0.8	8	0.74	2.6
G0557614		0.94	<0.01	0.02	0.38	<5	30	0.40	0.27	20.2	0.07	9.57	1.5	59	1.23	2.1
G0557615		0.80	<0.01	0.03	0.46	<5	10	6.60	1.02	15.25	0.05	4.70	2.1	44	0.55	2.1
G0557616		0.76	<0.01	0.02	0.21	<5	10	0.28	0.03	15.15	<0.02	5.03	0.7	8	0.05	1.2
G0557617		0.89	<0.01	0.06	0.38	7	20	8.90	1.61	14.70	0.04	9.01	2.9	101	0.91	29.6
G0557618		0.77	0.02	0.09	0.35	1.1	20	6.87	39.6	9.41	0.12	3.26	2.7	7	0.30	23.5
G0557619		0.64	<0.01	0.02	0.25	<5	10	1.42	0.80	17.70	0.04	2.73	1.6	6	0.43	7.3
G0557620		0.62	<0.01	0.01	0.30	8	80	0.14	0.14	23.3	0.05	3.29	1.0	4	0.24	1.9
G0557621		0.33	<0.01	0.01	0.19	<5	30	0.10	0.02	27.0	0.40	4.63	0.7	5	0.19	1.4
G0557622		0.39	<0.01	0.01	0.17	5	40	0.09	0.03	24.0	0.05	3.20	0.7	7	0.16	1.3
G0557623		0.63	<0.01	0.01	0.11	5	30	0.06	0.01	23.9	0.04	2.72	0.6	7	0.08	1.0
G0557624		0.45	<0.01	0.02	0.24	<5	30	0.10	0.02	24.2	0.04	3.32	0.9	8	0.38	1.5
G0557625		0.44	<0.01	0.04	0.66	10	40	0.16	0.04	29.1	0.98	5.41	2.0	9	1.37	4.9
G0557626		0.49	<0.01	0.02	0.12	<5	20	0.10	0.03	22.3	0.02	1.77	0.6	5	0.10	3.0
G0557627		0.12	<0.01	0.04	1.45	9	110	0.37	0.08	20.9	0.14	13.05	2.0	15	3.04	6.9
G0557628		1.22	<0.01	0.02	0.56	<5	130	0.27	0.03	22.4	0.05	6.76	1.4	16	1.74	4.0
G0557629		0.59	<0.01	0.03	1.34	<5	330	0.55	0.05	20.5	0.11	9.89	3.9	36	6.55	6.9
G0557630		0.25	<0.01	0.14	0.15	<5	20	0.10	0.02	23.6	0.02	2.65	0.6	3	0.20	3.1





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**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
G0557607		2.92	0.44	0.11	<0.1	0.20	<0.005	0.08	<0.5	5.0	15.45	688	0.50	0.01	0.3	1140
G0557608		1.55	6.67	0.14	0.8	0.46	0.047	0.43	28.3	6.8	0.12	172	15.15	0.10	3.4	24.6
G0557609		3.80	13.05	0.16	1.7	0.68	0.041	1.02	36.0	23.5	0.32	617	21.0	0.19	10.3	228
G0557610		36.6	12.90	0.59	0.6	<1	0.084	0.94	15.4	4.0	0.27	239	3.34	0.02	2.0	54.8
G0557611		31.3	24.2	0.57	0.7	<0.1	0.450	0.93	12.0	10.4	0.40	1800	6.34	0.03	2.4	315
G0557612		6.97	7.35	0.12	0.3	<0.1	0.505	0.09	18.0	8.6	10.15	2690	2.13	0.12	1.3	23.1
G0557613		0.14	0.32	0.05	<0.1	<0.01	<0.005	0.03	9.7	2.2	12.20	95	0.20	0.01	0.2	3.8
G0557614		0.26	1.50	0.05	0.2	<0.01	0.033	0.08	17.7	1.9	10.35	203	0.24	0.06	1.0	32.3
G0557615		4.32	5.44	0.09	0.1	<0.1	0.419	0.11	6.7	3.4	8.73	2160	0.41	0.11	0.6	39.7
G0557616		0.31	1.28	<0.05	0.1	<0.01	0.048	0.03	8.0	1.7	12.05	271	0.12	0.04	0.4	9.6
G0557617		5.14	5.37	0.10	0.5	<0.1	0.463	0.12	9.0	7.3	6.46	2660	7.36	0.09	0.6	62.9
G0557618		4.98	4.32	0.08	0.1	<0.01	0.363	0.08	4.2	2.3	12.20	2150	1.99	0.09	0.5	22.0
G0557619		2.28	2.58	0.05	0.1	<0.01	0.147	0.07	4.1	2.4	10.90	1260	0.41	0.07	0.4	11.9
G0557620		0.15	0.78	<0.05	0.1	0.18	<0.005	0.13	1.6	2.0	11.15	37	0.32	0.01	0.5	1.4
G0557621		0.11	0.47	0.07	0.1	<0.1	0.011	0.07	2.6	0.9	9.05	41	0.24	0.01	0.4	0.5
G0557622		0.10	0.47	0.08	0.1	0.04	<0.005	0.06	2.0	0.9	12.40	41	0.53	0.01	0.3	0.9
G0557623		0.05	0.34	0.08	<0.1	0.01	<0.005	0.04	3.1	0.6	12.30	25	0.33	0.01	0.3	<0.2
G0557624		0.11	0.66	0.08	0.1	0.05	<0.005	0.08	3.1	1.4	11.95	30	0.30	0.01	0.5	1.6
G0557625		0.28	1.54	0.06	0.2	0.1	0.006	0.20	4.8	3.4	5.90	48	0.23	0.01	0.7	7.6
G0557626		0.07	0.35	0.12	<0.1	<0.1	0.005	0.05	1.0	1.2	12.15	41	0.47	0.02	0.2	1.5
G0557627		0.61	3.21	0.12	0.7	0.08	0.021	0.62	6.6	6.0	10.85	47	1.54	0.03	2.4	11.8
G0557628		0.40	1.32	0.14	0.3	0.02	0.008	0.32	3.6	3.7	11.10	67	0.87	0.01	2.0	5.8
G0557629		1.24	3.31	0.13	0.7	0.07	0.015	0.75	5.8	9.8	10.60	72	1.93	0.01	6.2	17.6
G0557630		0.06	0.37	0.21	0.1	<0.1	<0.005	0.05	1.5	0.9	13.10	94	0.32	0.01	0.3	0.9

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 Account: RCM

Project: ATAC- Regional- Area JG,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G0557607		10	6.5	7.9	<0.002	0.04	4.32	4.1	<1	<0.2	27.0	<0.05	<0.05	<0.2	<0.005	0.09
G0557608		>10000	12.1	25.8	0.010	0.04	12.35	10.7	10	1.1	621	0.23	0.35	4.1	0.113	0.83
G0557609		4090	116.0	69.1	0.003	0.03	12.15	8.7	6	1.4	295	0.68	0.23	8.1	0.275	1.63
G0557610		3460	52.5	31.0	<0.002	0.08	2.15	5.7	2	0.6	10.7	0.10	0.06	6.9	0.064	0.36
G0557611		4910	95.8	30.1	0.002	0.27	3.97	33.1	2	2.7	67.3	0.14	0.07	15.3	0.058	1.70
G0557612		490	3.6	2.6	0.003	0.11	0.28	1.6	3	6.5	6.6	0.09	1.79	2.0	0.028	0.09
G0557613		180	1.6	2.7	<0.002	0.01	0.22	0.4	1	0.3	61.1	<0.05	<0.05	<0.2	<0.005	0.14
G0557614		960	2.6	13.4	<0.002	0.01	0.52	1.3	1	6.6	66.7	0.07	<0.05	0.8	0.024	0.12
G0557615		500	2.6	6.8	<0.002	<0.01	0.42	0.8	1	5.8	35.7	<0.05	<0.05	0.4	0.012	0.08
G0557616		360	2.1	0.6	<0.002	0.01	1.14	0.5	1	13.5	22.2	<0.05	<0.05	0.4	0.010	<0.02
G0557617		2760	1.7	10.4	0.004	0.01	0.38	1.8	1	4.4	28.4	0.05	<0.05	0.9	0.016	0.45
G0557618		310	0.9	5.5	<0.002	0.01	0.95	0.5	1	5.7	3.7	<0.05	0.91	0.3	0.008	0.28
G0557619		170	1.3	6.7	<0.002	0.01	0.54	0.5	1	3.4	34.1	<0.05	<0.05	0.2	0.007	0.06
G0557620		60	1.5	5.0	<0.002	0.03	0.40	0.6	1	<0.2	162.0	<0.05	<0.05	0.5	0.014	0.06
G0557621		10	1.2	2.5	<0.002	0.02	0.42	0.6	1	<0.2	190.0	<0.05	<0.05	0.4	0.010	0.05
G0557622		30	1.2	2.4	<0.002	0.03	0.45	0.5	1	<0.2	154.5	<0.05	<0.05	0.3	0.008	0.05
G0557623		30	1.2	1.4	<0.002	0.02	0.19	0.4	1	<0.2	151.5	<0.05	<0.05	0.3	0.006	0.04
G0557624		30	1.5	3.5	<0.002	0.03	0.28	0.6	1	<0.2	155.5	<0.05	<0.05	0.4	0.012	0.10
G0557625		40	3.4	9.4	<0.002	0.01	0.59	1.1	1	0.2	76.2	0.05	0.07	0.8	0.024	0.47
G0557626		20	1.1	1.6	<0.002	0.04	0.13	0.3	1	<0.2	150.0	<0.05	<0.05	0.2	0.007	0.05
G0557627		50	3.9	23.8	<0.002	0.03	0.72	3.0	1	0.4	161.5	0.18	<0.05	2.4	0.085	0.48
G0557628		30	1.6	7.4	0.002	0.04	0.13	1.6	1	0.2	155.0	0.12	<0.05	0.7	0.050	0.42
G0557629		70	2.6	18.3	0.003	0.05	0.23	3.3	1	0.3	148.5	0.33	<0.05	1.3	0.142	1.29
G0557630		20	1.0	1.7	<0.002	0.01	0.11	0.3	<1	<0.2	153.5	<0.05	<0.05	0.2	0.008	0.10





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 Account: RCM

Project: ATAC- Regional- Area J,G,H

**CERTIFICATE OF ANALYSIS WH12132947**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1
G0557607		<0.1	14	0.1	0.2	157	0.6					
G0557608		28.8	976	0.6	58.4	94	40.5					
G0557609		9.8	752	1.3	21.9	680	68.2					
G0557610		14.4	119	0.3	6.6	303	22.0					
G0557611		21.5	127	0.9	22.7	1440	23.8					
G0557612		4.1	143	69.0	13.4	153	10.4					
G0557613		0.8	9	0.1	10.4	7	0.8					
G0557614		0.7	51	0.6	21.5	37	7.8					
G0557615		0.7	69	103.5	15.5	127	4.3					
G0557616		0.4	14	0.9	8.7	39	3.5					
G0557617		2.5	73	25.2	28.4	128	19.6					
G0557618		0.6	19	149.5	11.5	146	3.2					
G0557619		1.0	18	1.4	10.3	75	2.2					
G0557620		0.7	3	0.3	1.7	4	3.5					
G0557621		0.5	2	0.1	3.9	7	2.3					
G0557622		0.7	2	0.1	1.9	3	2.1					
G0557623		0.7	1	0.1	3.8	2	1.4					
G0557624		0.7	3	0.1	3.5	3	2.9					
G0557625		1.0	9	0.1	4.5	13	8.0					
G0557626		0.7	3	<0.1	0.7	<2	1.8					
G0557627		1.8	18	0.3	3.1	13	24.1					
G0557628		1.0	8	0.1	3.1	3	10.2					
G0557629		1.7	17	0.2	3.8	11	27.6					
G0557630		1.1	5	<0.1	1.2	<2	2.5					



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Account: RCM

Project: ATAC- Regional- Area J,G,H

**CERTIFICATE OF ANALYSIS WH12132947**

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.
ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown.
ME- MS61	Interference: Mo> 400ppm on ICP- MS Cd,ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12132948**

Project: ATAC- Regional- Area JI,M  
 P.O. No.: Pit 2  
 This report is for 9 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%< 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional- Area JJ,M

**CERTIFICATE OF ANALYSIS WH12132948**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
DD020951		0.58	<0.01	0.15	1.42	10	290	0.84	0.43	17.85	0.48	16.70	3.1	14	3.87	12.9
DD020952		0.56	0.01	0.35	5.15	26.5	1190	2.48	0.80	6.39	1.34	59.6	11.0	50	5.80	42.1
DD020953		0.43	<0.01	0.21	3.18	14	530	4.37	0.70	12.50	0.72	31.5	6.7	27	6.34	35.4
DD020993		0.24	0.02	0.76	4.31	39.2	1070	1.74	8.52	4.08	2.20	48.3	8.2	70	4.88	41.5
DD020994		0.17	0.09	0.70	5.04	32.4	1250	2.04	1.99	2.22	3.08	69.5	10.1	78	4.87	60.3
DD027060		0.48	<0.01	0.03	0.53	<5	40	0.19	0.08	21.0	0.04	6.16	1.3	6	1.93	4.0
DD027061		0.54	<0.01	0.04	0.87	<5	90	0.36	0.31	20.3	0.02	7.46	3.5	6	2.38	6.7
DD027062		0.18	0.02	0.73	7.99	46.5	8430	3.20	0.26	0.51	4.36	75.3	32.2	105	9.01	271
DD027063		0.35	0.03	0.70	3.81	151.5	1520	0.98	19.40	8.17	1.78	58.2	9.2	25	1.62	17.6

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Project: ATAC- Regional- Area JI,M

**CERTIFICATE OF ANALYSIS WH12132948**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
DD020951		0.81	3.76	0.11	0.5	0.04	0.016	0.41	8.6	12.4	10.55	278	1.20	0.14	2.7	12.1
DD020952		3.01	12.35	0.12	1.8	0.07	0.061	1.35	31.2	26.9	4.48	642	3.31	0.48	10.9	41.6
DD020953		1.84	8.50	0.10	1.0	0.1	0.044	0.78	15.4	21.2	9.07	493	2.25	0.25	5.9	24.6
DD020993		3.41	10.75	0.12	1.3	0.08	0.056	1.08	28.1	21.7	2.83	722	7.48	0.51	8.2	51.7
DD020994		3.22	12.75	0.13	1.9	0.11	0.056	1.27	37.9	23.8	1.16	574	9.76	0.57	9.7	68.7
DD027060		0.26	1.33	0.11	0.1	<0.01	0.007	0.22	3.2	8.2	13.40	96	0.32	0.03	0.8	4.9
DD027061		0.47	2.45	0.15	0.2	<0.01	0.006	0.40	3.5	13.2	13.15	87	2.50	0.04	1.4	9.9
DD027062		10.90	21.2	0.20	3.0	0.27	0.089	2.72	36.0	25.1	0.84	1140	7.36	0.12	16.0	145.0
DD027063		4.29	8.85	0.11	1.4	0.1	0.531	1.24	34.4	12.6	4.82	1230	1.14	0.28	14.2	19.1

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Project: ATAC- Regional- Area JI,M

**CERTIFICATE OF ANALYSIS WH12132948**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
DD020951	210	14.3	38.2	<0.002	0.01	0.76	2.9	2	1.5	104.5	0.20	0.17	2.0	0.085	0.56	
DD020952	930	29.2	92.9	<0.002	0.02	2.56	10.0	2	3.3	114.5	0.84	0.09	6.9	0.323	1.03	
DD020953	520	22.3	71.5	0.002	0.01	1.63	5.8	1	3.2	94.9	1.07	0.09	4.3	0.165	1.10	
DD020993	1050	37.4	75.4	0.002	0.04	3.23	8.6	4	4.0	107.0	0.55	0.11	5.8	0.252	1.61	
DD020994	5430	35.2	80.5	0.002	0.05	3.90	10.8	4	3.3	114.0	0.65	0.11	7.3	0.315	1.96	
DD027060	70	1.6	11.3	<0.002	0.04	0.11	0.9	1	1.0	102.0	0.05	<0.05	0.7	0.026	0.25	
DD027061	60	2.2	17.1	0.004	0.15	0.17	1.6	1	1.1	106.5	0.09	<0.05	1.1	0.044	0.45	
DD027062	2230	21.1	135.5	0.006	0.14	5.40	20.9	12	2.1	98.8	1.00	0.13	11.7	0.394	1.22	
DD027063	1530	41.4	41.0	0.002	0.03	4.43	5.1	1	3.4	67.0	0.85	<0.05	4.1	0.330	2.42	

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Project: ATAC- Regional- Area JI,M

**CERTIFICATE OF ANALYSIS WH12132948**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
DD020951		1.0	45	4.1	5.2	81	17.0
DD020952		2.8	154	18.3	15.2	181	61.9
DD020953		1.9	79	27.3	10.4	115	33.8
DD020993		3.4	346	8.9	18.2	239	57.1
DD020994		3.8	443	3.8	33.4	311	73.6
DD027060		1.2	9	0.2	2.3	8	4.1
DD027061		1.6	14	1.6	2.7	7	6.5
DD027062		7.5	328	1.7	46.8	491	104.0
DD027063		2.2	86	3.1	10.3	472	56.7



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**CERTIFICATE OF ANALYSIS WH12132948**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12132949**

Project: ATAC Regional  
 P.O. No.: J  
 This report is for 233 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 29- JUN- 2012  
 Account: RCM

Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12132949**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019821		0.18	0.011	0.55	1.56	53.6	<0.2	<10	350	0.61	4.24	3.93	2.41	20.6	10.2	34
DD019822		0.18	0.009	0.71	1.56	55.7	<0.2	<10	430	0.57	6.42	4.46	2.45	17.65	8.6	33
DD019823		0.22	0.007	0.51	1.56	38.6	<0.2	<10	400	0.60	4.06	6.84	1.76	17.55	8.1	33
DD019824		0.19	0.012	0.42	1.46	50.6	<0.2	<10	240	0.75	6.20	3.24	2.63	20.0	9.1	29
DD019825		0.20	0.007	0.41	1.53	36.5	<0.2	<10	390	0.56	3.28	2.43	1.55	18.30	9.7	34
DD019826		0.27	0.009	0.41	1.44	37.9	<0.2	<10	330	0.54	3.54	3.50	1.32	19.30	9.2	31
DD019827		0.24	0.008	0.51	1.53	43.9	<0.2	<10	420	0.69	5.41	2.44	1.91	21.5	10.0	29
DD019828		0.16	0.008	0.42	1.32	31.9	<0.2	<10	400	0.51	2.65	2.95	1.89	17.50	9.2	26
DD019829		0.10	0.010	0.44	1.48	29.5	<0.2	<10	340	0.57	2.79	2.46	1.17	21.1	9.6	33
DD019830		0.15	0.009	0.51	1.45	38.2	<0.2	<10	430	0.64	1.65	3.52	3.40	20.8	9.7	27
DD019831		0.26	0.009	0.20	0.99	17.6	<0.2	<10	1260	0.27	0.86	2.86	1.21	16.10	7.5	21
DD019832		0.19	0.039	0.23	1.05	18.8	<0.2	<10	1230	0.36	1.16	2.61	1.95	15.85	8.0	23
DD019833		0.21	0.010	0.27	1.16	21.8	<0.2	<10	1050	0.34	1.21	2.38	2.10	15.15	7.6	24
DD019834		0.27	0.006	0.36	0.97	17.5	<0.2	<10	1230	0.25	6.14	1.83	0.93	17.90	7.6	21
DD019835		0.28	0.006	0.30	1.15	22.5	<0.2	<10	1110	0.36	1.06	1.57	1.17	16.95	8.4	26
DD019836		0.13	0.011	0.33	1.16	25.0	<0.2	<10	1120	0.38	0.91	2.30	1.85	18.25	9.9	27
DD019837		0.57	0.016	0.33	1.31	40.1	<0.2	<10	480	0.45	1.28	3.13	1.75	21.5	11.6	32
DD019838		0.38	0.010	0.40	1.40	43.0	<0.2	<10	510	0.47	1.37	2.99	1.86	23.9	12.4	34
DD019839		0.15	0.044	0.40	1.31	48.8	<0.2	<10	340	0.48	1.09	2.79	1.60	22.6	12.3	30
DD019840		0.23	0.011	0.43	1.37	32.0	<0.2	<10	560	0.60	0.87	2.18	1.33	26.0	13.1	30
DD019841		0.24	0.007	0.35	1.52	35.0	<0.2	<10	400	0.53	1.24	2.26	0.94	25.8	13.2	39
DD019842		0.39	0.061	0.31	1.13	35.4	<0.2	<10	400	0.44	2.34	5.74	1.01	22.9	11.0	26
DD019843		0.13	0.005	0.40	1.34	47.1	<0.2	<10	1790	0.51	1.33	1.67	1.72	20.5	15.6	30
DD019844		0.35	0.016	0.37	1.93	34.4	<0.2	<10	580	0.66	3.46	4.73	1.44	22.5	14.9	42
DD019845		0.20	0.006	0.34	1.38	43.1	<0.2	<10	1780	0.51	1.30	1.56	0.84	22.3	11.8	31
DD019846		0.29	0.010	0.44	1.36	33.5	<0.2	<10	1810	0.49	1.27	1.85	1.84	18.75	11.3	33
DD019847		0.33	0.015	0.52	1.47	39.4	<0.2	<10	710	0.51	1.48	2.03	1.90	23.5	12.9	38
DD019848		0.22	0.043	0.24	0.99	62.3	<0.2	<10	860	0.29	1.81	4.41	1.29	17.15	9.5	26
DD019849		0.50	0.010	0.30	1.30	46.5	<0.2	<10	360	0.49	1.07	3.31	0.95	26.4	12.1	28
DD019850		0.29	0.010	0.32	1.20	47.3	<0.2	<10	350	0.46	1.22	3.47	0.87	25.5	11.4	26
DD019851		0.26	0.005	0.11	2.86	18.6	<0.2	<10	110	0.51	1.47	0.96	0.58	32.6	20.0	32
DD019852		0.32	0.007	0.22	1.86	20.2	<0.2	<10	340	0.71	1.34	1.70	0.40	32.8	15.1	36
DD019853		0.27	0.006	0.29	1.62	15.0	<0.2	<10	380	0.57	1.66	3.85	0.81	18.90	12.1	49
DD019854		0.17	0.006	0.31	1.78	34.5	<0.2	<10	350	0.66	2.79	1.90	0.80	23.0	13.5	48
DD019855		0.36	0.014	0.59	1.56	53.0	<0.2	<10	550	0.71	2.05	3.87	3.09	20.1	10.0	35
DD019856		0.18	0.007	0.34	1.46	41.3	<0.2	<10	330	0.70	2.51	5.51	1.68	18.60	10.2	36
DD019857		0.19	0.010	0.33	1.60	41.2	<0.2	<10	310	0.68	0.98	1.01	0.82	26.8	13.2	36
DD019858		0.27	0.014	0.38	1.28	38.7	<0.2	<10	370	0.55	1.66	3.10	1.55	22.8	12.2	30
DD019859		0.23	0.007	0.36	1.60	36.8	<0.2	<10	410	0.68	0.89	1.76	1.59	24.9	13.3	37
DD019860		0.27	0.006	0.25	1.64	36.3	<0.2	<10	510	0.78	0.95	1.09	0.87	28.6	12.6	35





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019821		3.74	49.7	2.81	4.37	0.05	0.05	0.06	0.063	0.17	11.0	15.0	2.56	525	5.26	0.02
DD019822		4.26	46.8	2.87	4.17	0.05	0.05	0.06	0.066	0.17	9.6	13.6	2.71	579	4.42	0.03
DD019823		4.91	39.0	2.54	4.17	0.05	0.05	0.06	0.057	0.20	9.9	14.5	3.59	417	3.91	0.03
DD019824		2.90	37.3	2.87	3.98	0.06	0.05	0.06	0.058	0.13	9.6	12.3	2.17	738	5.15	0.03
DD019825		2.68	40.3	2.85	4.07	<0.05	0.04	0.07	0.048	0.12	9.6	13.5	1.06	589	3.28	0.02
DD019826		2.60	35.8	2.71	3.72	<0.05	0.05	0.05	0.045	0.12	10.0	13.1	2.29	619	4.00	0.02
DD019827		2.28	45.4	2.92	4.25	0.05	0.06	0.05	0.050	0.12	11.5	14.7	1.50	547	3.98	0.02
DD019828		2.03	40.5	2.36	3.95	<0.05	0.07	0.07	0.043	0.12	9.7	12.8	1.35	446	3.41	0.02
DD019829		2.64	32.9	2.59	4.05	<0.05	0.05	0.05	0.048	0.12	10.2	14.7	1.47	487	2.85	0.02
DD019830		2.16	41.2	2.65	3.91	0.05	0.05	0.06	0.049	0.13	10.9	14.1	2.02	926	5.13	0.02
DD019831		1.81	21.8	1.88	2.75	<0.05	0.03	0.04	0.024	0.07	8.3	8.2	1.50	326	1.95	0.02
DD019832		1.28	24.5	2.01	2.89	<0.05	0.04	0.05	0.031	0.08	8.0	8.8	1.00	345	1.57	0.02
DD019833		1.15	27.0	2.14	3.12	<0.05	0.03	0.05	0.032	0.08	8.1	9.5	0.84	390	2.24	0.02
DD019834		0.96	16.4	1.86	2.88	<0.05	0.03	0.05	0.026	0.06	9.1	9.5	1.05	337	1.75	0.02
DD019835		1.15	31.0	2.24	3.10	<0.05	0.03	0.06	0.026	0.07	8.8	9.5	0.65	423	2.34	0.02
DD019836		1.33	36.4	2.30	3.16	<0.05	0.04	0.06	0.033	0.09	9.4	10.0	1.16	515	2.95	0.02
DD019837		2.37	53.1	3.00	3.67	<0.05	0.07	0.07	0.038	0.13	12.1	12.0	2.07	462	5.08	0.03
DD019838		2.31	58.5	3.22	3.89	0.06	0.07	0.08	0.037	0.14	12.8	13.0	1.96	503	5.52	0.02
DD019839		1.63	53.2	3.21	3.72	0.06	0.07	0.06	0.040	0.12	12.2	12.2	1.70	531	4.50	0.02
DD019840		1.17	44.7	3.09	4.00	0.06	0.05	0.11	0.033	0.10	14.1	13.8	0.98	590	3.30	0.03
DD019841		1.60	42.7	3.49	4.15	0.06	0.06	0.08	0.040	0.10	13.2	14.2	1.47	478	3.57	0.03
DD019842		1.98	38.6	2.81	3.24	0.06	0.07	0.07	0.031	0.10	12.0	10.9	3.04	474	3.02	0.03
DD019843		1.59	23.6	3.30	3.64	0.05	0.05	0.10	0.042	0.11	11.2	10.1	0.67	1170	6.08	0.03
DD019844		3.32	39.1	3.50	5.58	0.05	0.20	0.08	0.044	0.11	12.2	16.2	2.73	666	2.96	0.05
DD019845		1.40	34.7	3.01	3.80	<0.05	0.04	0.11	0.041	0.10	11.6	11.4	0.69	797	5.23	0.03
DD019846		1.80	40.6	2.89	3.61	0.05	0.04	0.10	0.039	0.11	10.4	10.9	0.87	672	4.54	0.03
DD019847		1.91	46.9	3.29	4.19	0.08	0.08	0.09	0.043	0.15	12.6	14.6	1.37	851	7.53	0.03
DD019848		1.80	14.7	2.24	2.88	0.06	0.04	0.05	0.027	0.07	8.2	10.6	2.30	587	2.29	0.03
DD019849		1.33	43.7	3.23	3.61	0.07	0.09	0.07	0.036	0.14	13.7	14.6	1.89	530	4.73	0.02
DD019850		1.24	38.9	3.04	3.38	0.06	0.08	0.07	0.034	0.12	13.2	14.4	1.95	513	4.33	0.02
DD019851		1.04	12.6	5.73	9.11	0.10	0.03	0.03	0.051	0.06	16.1	17.2	1.58	883	2.81	0.01
DD019852		1.66	26.0	3.48	5.90	0.06	0.03	0.05	0.039	0.12	16.8	17.4	0.85	698	2.11	0.03
DD019853		3.03	30.4	2.88	4.40	0.05	0.03	0.06	0.032	0.14	10.9	15.9	1.94	628	1.65	0.03
DD019854		2.91	35.2	3.25	5.10	0.05	0.04	0.07	0.050	0.14	12.0	19.2	1.06	544	2.69	0.03
DD019855		2.85	58.3	2.92	4.15	0.05	0.06	0.10	0.059	0.17	11.8	13.5	1.81	482	5.31	0.03
DD019856		5.45	50.7	2.59	4.28	0.06	0.06	0.05	0.055	0.26	10.7	15.4	1.90	410	3.70	0.03
DD019857		1.48	44.8	3.43	4.73	0.06	0.07	0.09	0.044	0.13	14.5	14.8	0.85	460	5.25	0.03
DD019858		1.52	50.0	3.10	3.63	0.06	0.07	0.08	0.037	0.12	12.1	12.1	1.80	534	5.46	0.03
DD019859		1.48	44.1	3.42	4.47	0.05	0.06	0.09	0.044	0.13	13.1	14.4	1.17	653	4.75	0.03
DD019860		1.16	42.1	3.54	4.62	0.06	0.06	0.07	0.043	0.12	15.4	17.5	0.85	437	4.10	0.03

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019821		1.02	54.9	860	43.9	26.1	0.001	0.05	2.47	3.4	1.9	2.5	46.5	<0.01	0.05	1.9
DD019822		0.97	48.4	850	45.4	29.4	0.001	0.07	2.34	3.0	1.7	2.9	43.3	<0.01	0.07	1.5
DD019823		0.98	42.9	770	35.6	31.8	0.001	0.05	1.98	3.0	1.7	2.7	55.4	<0.01	0.05	1.7
DD019824		0.89	45.4	700	46.3	24.7	0.001	0.06	2.08	2.7	2.1	2.7	31.7	<0.01	0.07	1.9
DD019825		1.02	47.7	680	33.0	20.8	<0.001	0.09	2.10	2.7	2.5	1.6	39.7	<0.01	0.07	1.1
DD019826		0.91	42.5	790	36.5	16.5	0.001	0.04	1.99	3.0	1.5	1.8	36.3	<0.01	0.03	2.0
DD019827		0.90	46.8	830	40.7	16.5	0.001	0.05	2.27	3.3	1.8	2.1	34.1	<0.01	0.06	1.8
DD019828		0.96	41.6	860	30.9	16.2	0.001	0.08	2.26	2.8	1.5	1.4	44.4	<0.01	0.04	1.3
DD019829		0.97	41.1	800	33.1	18.2	0.002	0.07	1.68	2.9	1.6	1.5	35.9	<0.01	0.05	1.4
DD019830		0.74	50.4	870	36.7	20.3	0.002	0.06	2.44	2.7	1.8	1.7	44.9	<0.01	0.05	1.5
DD019831		0.84	33.9	980	12.4	8.6	0.001	0.05	0.98	2.0	0.8	0.5	41.7	<0.01	0.01	1.4
DD019832		0.96	32.6	910	16.8	9.5	0.001	0.08	1.10	2.0	1.3	0.6	40.5	<0.01	0.04	1.0
DD019833		0.89	32.8	890	19.1	8.6	<0.001	0.09	1.20	1.9	1.1	0.8	37.4	<0.01	0.03	0.7
DD019834		0.75	27.5	930	11.3	7.1	<0.001	0.04	0.81	1.9	1.5	0.5	31.9	<0.01	0.02	1.5
DD019835		0.91	39.2	1000	16.5	8.1	0.002	0.09	1.32	2.4	1.8	0.6	31.8	<0.01	0.04	1.2
DD019836		0.92	45.5	1040	16.5	9.6	0.002	0.09	1.57	2.5	1.6	0.7	40.7	<0.01	0.04	1.3
DD019837		0.86	58.0	1250	19.6	15.3	0.001	0.03	2.28	4.0	1.7	0.7	40.4	<0.01	0.04	3.3
DD019838		0.88	62.4	1270	20.1	16.6	0.001	0.03	2.43	4.2	1.7	0.7	42.5	<0.01	0.04	3.3
DD019839		1.05	55.4	1190	19.8	11.9	<0.001	0.04	2.11	3.9	1.8	0.7	41.0	<0.01	0.06	2.8
DD019840		1.13	49.1	1070	18.5	10.9	0.001	0.05	1.71	3.6	1.5	1.1	42.9	<0.01	0.04	2.0
DD019841		1.18	50.7	940	22.4	11.5	0.001	0.04	1.63	4.4	1.2	0.6	40.0	<0.01	0.06	3.0
DD019842		1.45	39.0	1130	26.6	11.3	0.001	0.04	1.61	3.5	0.9	0.6	60.0	<0.01	0.04	3.2
DD019843		1.03	39.3	1030	27.8	11.4	0.007	0.12	1.74	2.6	2.7	1.0	40.7	<0.01	0.06	1.4
DD019844		2.38	48.8	1240	34.4	15.5	0.001	0.06	1.36	4.9	0.9	1.0	58.4	<0.01	0.04	1.8
DD019845		0.95	45.0	800	25.2	11.8	0.001	0.07	1.61	2.7	2.2	0.9	35.2	<0.01	0.06	1.3
DD019846		1.02	49.8	1040	23.9	12.4	0.003	0.10	1.87	2.7	2.2	1.0	41.3	<0.01	0.05	1.3
DD019847		1.17	58.4	1250	21.4	16.6	0.001	0.05	2.59	3.7	1.4	0.8	40.8	<0.01	0.06	2.3
DD019848		1.07	29.0	990	18.4	10.7	0.002	0.07	0.94	2.2	1.2	0.7	52.1	<0.01	0.05	1.4
DD019849		1.01	43.5	1150	19.3	12.3	0.001	0.04	1.96	3.9	1.2	0.7	47.4	<0.01	0.06	3.6
DD019850		0.92	40.3	1170	19.9	11.0	<0.001	0.04	1.86	3.7	1.1	0.6	48.5	<0.01	0.05	3.5
DD019851		7.35	24.3	810	21.9	6.6	<0.001	0.03	0.65	4.6	0.6	0.8	20.3	0.08	0.03	2.7
DD019852		5.07	35.8	1210	22.7	12.1	<0.001	0.05	0.96	3.4	1.2	1.0	56.8	0.01	0.04	2.0
DD019853		1.86	44.4	880	31.0	20.2	0.001	0.06	1.21	3.3	0.7	0.9	52.3	<0.01	0.02	1.5
DD019854		1.88	48.0	690	34.1	18.4	0.002	0.07	1.53	3.7	1.1	1.7	44.8	<0.01	0.06	1.8
DD019855		1.14	55.8	870	44.2	23.4	0.001	0.06	2.78	3.0	2.7	2.1	49.8	<0.01	0.07	1.6
DD019856		1.57	50.1	690	31.4	30.9	0.001	0.05	1.86	3.3	1.2	2.1	68.2	<0.01	0.05	2.2
DD019857		1.34	57.5	810	26.3	12.7	<0.001	0.03	2.14	4.7	1.4	1.1	29.6	<0.01	0.06	3.4
DD019858		1.29	54.7	1150	20.1	12.5	0.001	0.03	2.30	3.9	1.8	0.8	44.8	<0.01	0.07	2.9
DD019859		1.19	54.0	890	24.9	12.4	0.001	0.03	2.19	4.0	1.4	0.8	34.2	<0.01	0.06	2.2
DD019860		1.30	52.1	610	23.9	13.0	<0.001	0.03	1.91	4.5	1.2	0.9	26.7	<0.01	0.05	3.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12132949**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019821		0.044	0.46	0.85	71	5.28	9.09	294	2.2
DD019822		0.045	0.49	1.39	64	6.79	8.17	338	1.9
DD019823		0.047	0.49	0.86	58	8.17	8.32	257	1.9
DD019824		0.038	0.43	0.83	82	17.75	9.11	263	2.0
DD019825		0.043	0.36	1.25	63	4.53	8.22	219	1.7
DD019826		0.041	0.37	0.75	66	6.34	8.27	221	1.7
DD019827		0.036	0.32	1.25	62	6.25	8.98	264	2.1
DD019828		0.032	0.29	1.60	51	2.55	7.96	211	2.1
DD019829		0.041	0.32	0.94	57	3.24	7.72	227	1.9
DD019830		0.030	0.42	1.24	69	3.23	9.30	255	2.1
DD019831		0.032	0.33	1.34	46	2.05	5.92	202	1.3
DD019832		0.030	0.18	1.09	49	5.13	6.34	198	1.4
DD019833		0.029	0.16	1.41	52	1.77	5.82	217	1.2
DD019834		0.028	0.16	0.90	40	1.37	5.26	151	1.0
DD019835		0.030	0.19	2.16	54	0.67	7.21	182	1.5
DD019836		0.034	0.22	1.78	59	0.63	7.58	205	1.7
DD019837		0.043	0.32	0.89	57	1.09	9.51	209	3.8
DD019838		0.043	0.32	0.92	60	1.13	10.05	219	3.5
DD019839		0.037	0.24	0.84	50	1.23	9.62	177	3.2
DD019840		0.034	0.15	1.20	49	0.39	10.85	152	2.0
DD019841		0.041	0.21	0.80	55	0.65	10.35	167	2.0
DD019842		0.049	0.22	0.96	41	1.83	8.68	168	2.9
DD019843		0.030	0.30	4.74	77	1.05	8.05	282	1.7
DD019844		0.070	0.26	1.71	71	1.12	11.20	214	1.1
DD019845		0.031	0.24	4.52	76	1.39	8.36	237	1.3
DD019846		0.032	0.28	2.91	70	0.62	9.38	265	1.6
DD019847		0.041	0.29	0.92	68	0.93	12.10	249	2.7
DD019848		0.039	0.18	1.07	39	2.48	6.79	406	1.2
DD019849		0.032	0.22	0.90	49	0.52	10.00	161	3.8
DD019850		0.032	0.20	0.85	45	0.56	9.55	152	3.7
DD019851		0.160	0.13	0.56	81	0.71	8.75	119	0.9
DD019852		0.061	0.16	1.36	55	1.98	12.30	122	1.0
DD019853		0.060	0.28	1.15	51	4.37	8.48	147	1.2
DD019854		0.061	0.28	1.67	63	6.45	9.08	179	1.5
DD019855		0.039	0.41	1.62	74	9.43	9.22	260	2.0
DD019856		0.051	0.45	0.98	54	5.25	8.76	212	2.4
DD019857		0.038	0.21	1.06	69	0.34	10.65	167	2.8
DD019858		0.039	0.24	1.04	57	0.24	10.30	175	2.9
DD019859		0.034	0.22	1.57	69	0.26	10.70	178	2.0
DD019860		0.035	0.20	0.95	68	0.29	11.30	172	2.2



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019781		0.28	0.007	0.37	1.18	29.1	<0.2	<10	350	0.57	2.88	5.34	1.62	19.25	7.9	23
DD019782		0.39	0.008	0.41	1.65	35.7	0.2	<10	430	0.79	1.65	1.09	1.07	31.4	11.0	33
DD019783		0.56	0.005	0.32	1.09	22.5	<0.2	<10	290	0.78	0.53	6.09	0.86	26.1	16.5	18
DD019784		0.24	0.088	0.30	1.50	22.1	<0.2	<10	250	0.49	3.47	3.64	1.20	18.05	12.4	43
DD019785		0.25	0.006	0.41	1.41	29.8	<0.2	<10	350	0.63	2.15	1.90	1.05	23.0	11.8	32
DD019786		0.25	0.081	0.27	1.09	27.0	<0.2	<10	300	0.45	1.61	1.13	0.69	21.5	8.8	24
DD019787		0.19	0.007	0.28	1.22	20.4	<0.2	<10	240	0.38	1.47	2.22	1.24	14.80	10.8	38
DD019788		0.25	0.008	0.31	1.17	25.9	<0.2	<10	290	0.45	1.26	2.78	1.45	17.00	11.0	32
DD019789		0.20	0.007	0.36	1.18	33.9	<0.2	<10	350	0.53	1.37	1.82	1.57	18.85	11.6	29
DD019790		0.16	0.008	0.24	1.26	27.4	<0.2	<10	320	0.48	1.30	1.89	2.03	17.65	11.1	32
DD019791		0.36	0.011	0.41	1.27	50.7	<0.2	<10	380	0.58	4.87	8.89	1.75	21.0	9.5	25
DD019792		0.18	0.008	0.47	1.50	42.1	<0.2	<10	380	0.61	5.24	3.73	1.48	18.00	10.1	33
DD019793		0.12	0.015	0.66	1.16	66.9	<0.2	<10	680	0.73	1.24	3.24	1.45	15.75	5.7	20
DD019794		0.12	0.005	0.41	1.28	24.8	<0.2	<10	400	0.57	1.17	1.81	2.17	20.1	8.6	27
DD019795		0.26	0.006	0.37	1.21	27.8	<0.2	<10	620	0.54	1.13	2.35	1.94	19.30	9.8	27
DD019796		0.14	0.008	0.31	1.26	23.6	<0.2	<10	390	0.52	1.11	1.68	1.48	20.3	10.2	28
DD019797		0.24	0.013	0.30	1.25	22.9	<0.2	<10	320	0.52	1.07	1.85	1.09	21.7	9.9	28
DD019798		0.08	0.022	0.32	1.26	27.0	<0.2	<10	410	0.48	1.54	2.45	1.43	17.50	9.8	31
DD019799		0.13	0.008	0.29	1.33	35.4	<0.2	<10	470	0.48	1.55	1.77	1.19	16.75	8.5	30
DD019800		0.14	0.008	0.45	1.62	51.3	<0.2	<10	420	0.69	1.73	1.68	1.19	23.7	11.8	37
DD019801		0.15	0.016	0.17	1.42	29.9	<0.2	<10	400	0.50	0.70	2.12	1.36	19.90	10.0	32
DD019802		0.14	0.006	0.26	1.27	33.4	<0.2	<10	320	0.48	0.82	1.35	1.03	21.7	10.9	29
DD019803		0.22	0.005	1.39	0.43	26.1	<0.2	<10	380	0.23	0.43	1.05	3.85	10.50	2.6	29
DD019804		0.16	0.007	0.30	1.38	28.8	<0.2	<10	290	0.50	2.54	2.05	1.89	18.50	10.4	37
DD019805		0.14	0.006	0.38	1.48	30.3	<0.2	<10	310	0.49	3.06	2.62	1.38	18.85	11.1	41
DD019806		0.25	0.011	0.30	1.39	35.0	<0.2	<10	270	0.55	0.80	4.10	1.58	26.5	11.4	32
DD019807		0.29	0.009	0.47	1.63	36.0	<0.2	<10	380	0.63	1.04	5.01	1.71	26.2	12.2	34
DD019808		0.21	0.008	0.43	1.72	31.3	<0.2	<10	440	0.68	2.12	2.62	1.48	24.6	12.9	39
DD019809		0.23	0.006	0.46	1.62	28.6	<0.2	<10	470	0.68	2.17	1.32	2.38	22.8	12.5	37
DD019810		0.12	NSS	0.27	1.10	19.3	<0.2	<10	450	0.41	1.22	2.74	1.23	14.30	7.9	23
DD019811		0.14	0.008	0.30	1.48	36.2	<0.2	<10	440	0.56	1.40	1.20	0.99	21.1	11.1	33
DD019813		0.14	0.012	0.14	1.27	22.5	<0.2	<10	330	0.48	0.82	1.49	1.58	17.70	8.0	28
DD019814		0.22	0.012	0.31	1.26	27.3	<0.2	<10	380	0.49	0.89	1.74	1.31	22.1	10.6	28
DD019815		0.12	0.009	0.38	1.53	31.9	<0.2	<10	390	0.60	1.46	1.77	3.03	22.8	10.8	33
DD019816		0.18	0.008	0.37	1.42	30.1	<0.2	<10	470	0.54	1.02	1.65	1.76	22.1	10.9	31
DD019817		0.33	0.017	0.27	1.15	29.2	<0.2	<10	380	0.53	0.80	1.68	1.15	23.1	10.1	24
DD019818		0.26	0.008	0.33	1.54	33.5	<0.2	<10	230	0.79	2.01	0.76	0.97	30.8	12.3	32
DD019819		0.28	0.008	0.39	1.34	28.5	<0.2	<10	460	0.54	1.18	1.25	1.32	27.4	10.6	32
DD019820		0.22	0.012	0.42	1.46	26.5	<0.2	<10	520	0.56	1.10	1.86	1.82	23.7	12.1	34
DD019932		0.20	0.004	0.28	1.48	16.5	<0.2	<10	520	0.55	1.41	2.23	0.88	20.6	9.5	28

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD019781		2.68	36.0	2.28	3.46	0.05	0.05	0.05	0.037	0.10	10.5	12.3	3.19	386	3.13	0.03
DD019782		1.60	48.4	3.35	4.68	0.05	0.07	0.14	0.058	0.12	17.5	14.8	0.95	528	5.56	0.02
DD019783		2.09	42.2	3.08	2.88	0.06	0.09	0.09	0.034	0.14	13.5	12.7	2.49	874	2.46	0.02
DD019784		5.17	28.1	2.88	4.36	0.06	0.03	0.06	0.040	0.12	9.9	16.1	1.51	582	1.66	0.03
DD019785		2.28	34.7	3.02	3.98	0.05	0.04	0.08	0.046	0.10	12.1	15.2	0.87	593	2.63	0.03
DD019786		1.09	19.9	2.56	3.10	0.05	0.04	0.05	0.035	0.06	11.5	12.0	0.57	333	2.66	0.02
DD019787		5.14	21.0	2.41	3.69	<0.05	0.03	0.06	0.033	0.07	7.6	13.6	0.70	319	1.24	0.03
DD019788		4.21	33.3	2.39	3.58	0.05	0.03	0.08	0.039	0.09	9.0	13.3	0.98	525	2.21	0.02
DD019789		2.94	35.1	2.55	3.59	0.05	0.04	0.07	0.039	0.10	10.6	13.3	0.62	862	2.83	0.02
DD019790		3.95	40.1	2.52	3.68	<0.05	0.04	0.06	0.038	0.09	9.3	12.2	0.75	528	2.79	0.03
DD019791		3.66	38.0	2.57	3.52	0.05	0.07	0.05	0.050	0.22	11.7	13.2	4.31	552	4.66	0.03
DD019792		3.18	34.1	2.95	4.19	0.05	0.05	0.07	0.052	0.15	10.1	15.7	1.73	508	3.47	0.03
DD019793		1.04	90.9	2.13	2.80	0.05	0.06	0.10	0.056	0.07	10.4	8.2	0.64	268	2.93	0.02
DD019794		1.54	36.7	2.50	3.68	0.05	0.06	0.09	0.044	0.09	11.6	12.6	0.84	373	3.57	0.03
DD019795		1.25	36.1	2.69	3.38	0.05	0.05	0.06	0.041	0.09	10.4	11.8	0.89	814	3.29	0.03
DD019796		1.43	31.7	2.53	3.61	<0.05	0.04	0.09	0.041	0.10	9.9	13.5	0.72	650	2.97	0.03
DD019797		1.38	31.2	2.53	3.54	<0.05	0.04	0.06	0.042	0.11	11.3	13.5	0.99	341	3.26	0.03
DD019798		1.62	33.2	2.50	3.31	<0.05	0.05	0.08	0.046	0.13	8.9	13.3	0.67	627	2.79	0.03
DD019799		1.60	27.2	2.53	3.42	<0.05	0.05	0.07	0.056	0.13	8.6	14.0	0.64	364	3.00	0.03
DD019800		1.98	41.2	3.02	4.49	0.05	0.05	0.06	0.070	0.15	12.7	18.4	0.86	624	3.94	0.03
DD019801		1.30	35.2	2.92	4.04	<0.05	0.04	0.05	0.040	0.11	10.7	14.2	0.81	429	4.21	0.03
DD019802		0.90	37.9	2.96	3.81	0.05	0.03	0.09	0.038	0.08	10.9	13.4	0.67	480	4.90	0.02
DD019803		1.74	75.5	1.81	2.77	0.05	0.05	0.72	0.052	0.06	7.8	4.2	0.21	83	21.7	0.01
DD019804		2.46	21.2	2.64	3.97	0.06	0.06	0.07	0.042	0.12	9.0	14.5	1.18	465	3.32	0.02
DD019805		3.09	27.9	2.84	4.15	0.07	0.05	0.07	0.044	0.13	9.1	15.2	1.67	594	3.16	0.02
DD019806		2.01	44.1	3.15	3.96	0.08	0.13	0.07	0.042	0.20	13.8	15.1	2.22	582	6.57	0.03
DD019807		2.02	56.9	3.48	4.05	0.06	0.08	0.08	0.042	0.21	13.7	14.2	2.36	594	5.20	0.04
DD019808		2.34	44.3	3.36	4.52	0.05	0.06	0.07	0.052	0.17	12.6	16.9	1.42	651	3.74	0.03
DD019809		1.82	47.8	3.20	4.55	<0.05	0.05	0.05	0.051	0.12	11.7	15.0	0.85	617	2.91	0.03
DD019810		1.37	30.1	2.05	2.86	<0.05	0.04	0.07	0.030	0.09	7.1	10.8	0.73	471	2.06	0.02
DD019811		1.40	25.8	2.95	3.82	<0.05	0.04	0.07	0.047	0.12	10.9	14.3	0.69	731	3.52	0.03
DD019813		1.13	27.2	2.39	3.75	<0.05	0.05	0.05	0.035	0.09	8.9	12.6	0.64	290	3.23	0.03
DD019814		1.29	35.1	2.67	3.49	0.05	0.05	0.07	0.038	0.11	11.2	12.9	0.84	441	3.06	0.03
DD019815		1.83	41.8	3.03	4.14	0.05	0.06	0.08	0.053	0.14	11.7	15.0	1.11	439	4.54	0.03
DD019816		1.45	38.5	3.00	3.95	<0.05	0.05	0.08	0.040	0.12	11.3	13.5	0.82	523	3.74	0.03
DD019817		1.06	32.5	2.58	3.40	0.05	0.04	0.07	0.032	0.09	12.3	12.1	0.77	487	3.23	0.02
DD019818		1.33	53.0	3.32	3.93	0.05	0.05	0.09	0.054	0.06	15.9	15.4	0.79	493	3.77	0.03
DD019819		1.62	35.9	2.91	3.93	0.05	0.05	0.07	0.039	0.10	14.4	13.5	0.80	360	4.65	0.03
DD019820		1.64	46.7	3.01	4.09	0.05	0.06	0.08	0.040	0.13	12.1	14.8	0.93	586	3.83	0.03
DD019932		1.30	26.6	2.60	4.09	<0.05	0.03	0.06	0.034	0.09	10.1	14.5	0.87	569	1.28	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019781		0.95	36.3	830	29.1	16.4	0.001	0.05	1.90	2.7	1.4	1.3	49.5	<0.01	0.05	2.0
DD019782		1.03	50.4	750	41.2	13.3	0.001	0.03	3.21	4.5	1.5	1.9	29.3	<0.01	0.07	3.6
DD019783		0.42	33.8	770	42.6	8.9	0.006	0.03	2.03	4.5	1.2	0.5	81.6	<0.01	0.06	4.5
DD019784		1.36	48.4	640	28.6	31.5	0.001	0.10	1.20	3.4	1.2	1.2	40.0	<0.01	0.03	1.5
DD019785		1.19	44.7	840	33.3	16.7	0.002	0.08	1.74	3.1	1.3	1.4	35.6	<0.01	0.05	1.5
DD019786		0.90	31.1	550	25.3	8.8	0.001	0.05	1.44	2.2	0.7	0.8	25.7	<0.01	0.04	2.1
DD019787		1.16	45.1	510	29.1	16.6	0.005	0.13	1.06	2.5	0.7	1.0	31.3	<0.01	0.02	1.0
DD019788		1.04	47.0	720	26.7	24.5	0.001	0.08	1.62	2.6	0.9	1.1	37.2	<0.01	0.04	1.1
DD019789		0.97	45.2	670	28.9	19.8	0.001	0.07	1.87	2.6	1.3	1.2	35.6	<0.01	0.04	1.3
DD019790		1.09	48.3	730	25.8	14.8	0.001	0.09	1.91	2.5	1.1	1.2	33.9	<0.01	0.04	1.0
DD019791		0.90	41.9	780	40.0	27.8	0.001	0.03	2.18	3.3	1.5	3.2	75.0	<0.01	0.06	3.1
DD019792		1.16	39.4	860	37.3	23.5	0.002	0.08	1.91	3.0	2.8	2.0	48.0	<0.01	0.04	1.5
DD019793		0.56	33.4	1170	28.8	9.9	0.001	0.13	2.37	1.3	2.9	1.6	51.0	<0.01	0.04	0.5
DD019794		0.99	40.6	910	25.9	12.8	0.001	0.07	2.17	2.9	1.3	1.2	35.7	<0.01	0.05	1.7
DD019795		0.93	40.9	850	28.1	10.7	0.001	0.06	2.21	2.8	1.7	1.2	40.3	<0.01	0.06	1.6
DD019796		0.86	41.0	790	27.2	12.4	0.001	0.06	1.72	2.8	1.6	1.0	32.0	<0.01	0.04	1.7
DD019797		0.86	40.4	870	25.7	11.7	<0.001	0.04	1.81	2.9	1.4	1.2	33.9	<0.01	0.04	2.0
DD019798		0.77	41.0	700	34.2	14.3	0.002	0.10	1.91	2.5	1.8	1.8	40.1	<0.01	0.03	1.4
DD019799		0.72	38.5	580	40.1	14.3	0.003	0.08	1.87	2.6	1.3	2.0	35.8	<0.01	0.04	1.8
DD019800		0.94	55.4	730	48.6	18.1	0.001	0.05	2.30	3.6	1.7	2.3	42.5	<0.01	0.05	2.3
DD019801		1.08	41.0	720	19.2	11.9	<0.001	0.05	1.83	3.1	1.8	0.8	45.0	<0.01	0.04	1.4
DD019802		0.95	42.7	790	16.6	9.5	0.001	0.04	1.65	3.1	2.5	0.8	33.8	<0.01	0.05	1.5
DD019803		0.70	68.0	800	15.9	8.7	0.001	0.05	4.59	1.8	6.1	0.9	56.1	<0.01	0.15	1.4
DD019804		1.42	38.5	650	25.4	17.2	0.001	0.07	1.41	3.0	1.1	1.3	33.1	<0.01	0.04	1.7
DD019805		1.46	43.0	800	29.4	18.0	0.001	0.07	1.65	3.1	1.2	1.6	35.0	<0.01	0.06	1.7
DD019806		0.95	48.2	1230	21.9	16.6	0.001	0.03	2.17	4.5	1.3	0.7	57.1	<0.01	0.05	4.0
DD019807		0.86	55.9	1250	24.4	17.6	<0.001	0.01	2.32	4.4	1.5	1.0	65.7	<0.01	0.06	4.4
DD019808		1.12	54.1	850	34.6	20.7	<0.001	0.04	2.11	4.2	1.5	1.7	40.9	<0.01	0.06	2.6
DD019809		1.11	54.5	640	33.8	16.4	0.001	0.03	1.81	3.6	1.3	1.5	30.3	<0.01	0.05	2.2
DD019810		0.74	33.7	720	22.4	11.2	<0.001	0.08	1.47	1.9	1.0	1.0	42.5	<0.01	0.03	0.9
DD019811		0.84	40.0	650	40.9	12.1	0.001	0.04	1.89	3.0	1.5	1.6	28.9	<0.01	0.05	2.0
DD019813		1.01	32.5	580	19.8	8.7	<0.001	0.06	1.50	2.8	1.5	1.0	30.7	<0.01	0.04	1.6
DD019814		0.91	41.9	970	21.7	12.0	<0.001	0.04	1.85	3.0	1.6	1.4	35.2	<0.01	0.03	2.1
DD019815		0.96	51.0	930	32.4	16.2	0.001	0.04	2.70	3.5	1.7	1.8	34.7	<0.01	0.06	2.4
DD019816		0.99	43.5	1020	24.4	13.7	0.001	0.05	2.12	3.2	1.5	1.2	35.6	<0.01	0.05	1.9
DD019817		0.88	36.3	960	19.5	9.2	0.001	0.03	1.91	2.8	1.4	1.1	36.7	<0.01	0.05	1.8
DD019818		0.74	53.4	1040	27.6	9.4	<0.001	0.02	2.01	4.8	1.8	2.3	24.6	<0.01	0.04	3.1
DD019819		1.02	40.5	960	25.1	11.8	0.001	0.02	2.55	3.6	1.7	1.5	32.5	<0.01	0.04	2.9
DD019820		0.97	48.2	1000	26.5	13.8	0.001	0.04	2.39	3.6	1.8	1.2	39.9	<0.01	0.05	2.1
DD019932		1.02	31.7	860	23.2	11.5	<0.001	0.06	1.01	2.7	1.0	0.8	35.7	<0.01	0.03	1.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019781		0.034	0.33	1.71	46	7.61	9.20	203	1.8
DD019782		0.036	0.33	1.11	73	0.84	13.60	198	2.3
DD019783		0.025	0.18	0.86	32	0.13	9.55	158	4.5
DD019784		0.070	0.36	0.65	48	3.10	7.17	222	1.1
DD019785		0.040	0.27	1.44	52	2.64	9.33	202	1.6
DD019786		0.029	0.16	0.80	48	7.99	6.44	148	1.3
DD019787		0.054	0.36	1.43	43	1.19	5.41	261	1.1
DD019788		0.042	0.32	0.88	45	1.03	6.49	198	1.2
DD019789		0.033	0.29	1.20	55	1.00	7.33	180	1.4
DD019790		0.034	0.24	1.07	52	0.93	6.70	177	1.5
DD019791		0.043	0.38	0.94	47	6.85	8.97	251	2.9
DD019792		0.043	0.32	1.62	53	5.02	7.33	229	1.6
DD019793		0.013	0.16	2.51	43	1.90	12.35	139	2.0
DD019794		0.032	0.23	0.91	55	0.92	8.75	224	2.0
DD019795		0.030	0.21	1.05	56	0.89	8.39	207	1.9
DD019796		0.032	0.20	0.98	55	0.73	7.47	189	1.7
DD019797		0.034	0.23	0.93	57	1.09	8.44	173	1.7
DD019798		0.031	0.26	1.08	56	1.30	6.75	214	1.9
DD019799		0.032	0.27	0.67	57	1.94	5.16	253	1.6
DD019800		0.038	0.32	1.05	70	2.45	8.86	256	2.0
DD019801		0.032	0.18	1.17	62	0.21	6.83	222	1.8
DD019802		0.030	0.16	1.40	69	0.20	7.34	186	1.5
DD019803		0.030	0.72	3.45	413	1.10	19.05	590	2.8
DD019804		0.048	0.27	0.58	59	2.59	7.70	222	2.0
DD019805		0.052	0.33	0.82	63	3.33	8.13	216	1.9
DD019806		0.040	0.31	0.91	57	0.27	10.50	197	7.1
DD019807		0.042	0.34	1.04	64	0.33	11.05	213	4.0
DD019808		0.046	0.35	1.02	67	1.39	10.70	221	2.3
DD019809		0.043	0.21	0.97	65	1.66	8.09	217	1.8
DD019810		0.028	0.19	1.53	45	1.44	5.45	204	1.8
DD019811		0.033	0.25	1.00	66	1.49	7.41	185	1.5
DD019813		0.030	0.18	1.17	60	0.39	5.91	140	2.1
DD019814		0.034	0.19	1.18	56	0.90	8.14	170	2.1
DD019815		0.035	0.32	0.92	72	0.87	8.28	232	2.2
DD019816		0.032	0.23	1.10	62	0.38	8.64	203	2.0
DD019817		0.029	0.15	1.16	48	0.24	8.41	138	1.7
DD019818		0.035	0.24	1.15	62	7.45	15.65	170	1.8
DD019819		0.044	0.26	1.34	63	1.02	9.23	158	2.2
DD019820		0.037	0.22	1.25	59	0.58	9.50	179	2.4
DD019932		0.030	0.14	1.05	49	0.77	7.58	172	1.2



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019933		0.31	0.005	0.24	1.66	15.8	<0.2	<10	690	0.64	0.86	1.42	0.81	25.1	11.0	30
DD019934		0.34	0.002	0.06	2.47	23.3	<0.2	<10	430	1.08	0.87	1.10	1.10	36.2	12.1	39
DD019935		0.28	0.005	0.13	1.61	17.0	<0.2	<10	280	0.65	0.77	2.76	0.63	21.6	7.8	27
DD019936		0.31	0.003	0.26	1.48	19.2	<0.2	<10	280	0.61	0.95	4.35	0.73	23.7	8.6	25
DD019937		0.30	0.007	0.22	0.35	29	<0.2	<10	170	0.17	3.43	14.00	0.85	11.10	3.9	8
DD019938		0.27	0.006	0.43	1.39	26.5	<0.2	<10	500	0.52	2.10	2.61	1.05	20.7	10.3	29
DD019939		0.43	0.005	0.36	1.24	20.1	<0.2	<10	350	0.49	1.16	7.22	0.95	18.00	11.4	28
DD019940		0.27	0.005	0.12	0.42	12.8	<0.2	<10	290	0.25	0.33	8.69	0.83	12.55	9.1	14
DD019941		0.25	0.007	0.21	1.14	18.9	<0.2	<10	500	0.42	1.58	5.09	0.59	18.95	10.3	27
DD019942		0.36	0.017	0.21	1.35	28.2	<0.2	<10	850	0.56	1.13	5.63	1.42	19.80	11.6	32
DD019943		0.33	0.023	0.39	1.24	33.2	<0.2	<10	1040	0.49	1.24	3.83	1.42	19.00	19.2	35
DD019944		0.26	0.007	0.17	1.33	15.4	<0.2	<10	450	0.61	1.43	5.60	0.69	18.60	13.0	43
DD019945		0.38	0.004	0.19	1.25	16.7	<0.2	<10	600	0.48	1.45	4.70	0.68	16.90	10.9	36
DD019946		0.30	0.005	0.21	1.14	19.7	<0.2	<10	570	0.42	1.68	4.76	0.70	16.65	9.0	23
DD019947		0.28	0.007	0.45	1.50	37.1	<0.2	<10	1020	0.50	1.48	3.01	2.23	23.8	12.1	37
DD019948		0.25	0.006	0.35	1.31	31.8	<0.2	<10	800	0.47	1.13	1.85	1.39	20.8	11.3	32
DD019949		0.16	0.009	0.29	1.09	26.3	<0.2	<10	910	0.42	0.95	2.45	1.58	18.00	10.0	27
DD019950		0.16	0.007	0.25	1.09	26.4	<0.2	<10	1000	0.37	0.87	1.50	0.98	18.95	8.2	28
DD019951		0.14	0.015	0.21	0.87	18.3	<0.2	<10	360	0.37	0.47	3.21	1.35	11.50	6.6	19
DD019952		0.22	0.009	0.27	1.69	34.0	<0.2	<10	450	0.68	0.85	1.61	1.65	25.4	12.8	36
DD019953		0.24	0.011	0.43	1.44	33.8	<0.2	<10	320	0.56	0.75	2.43	1.07	22.2	10.9	33
DD019954		0.13	NSS	0.46	0.77	17.7	<0.2	<10	400	0.34	0.40	3.41	2.82	11.50	6.6	19
DD019955		0.15	0.003	0.10	0.21	3.7	<0.2	<10	210	0.07	0.09	3.65	2.15	2.42	1.8	4
DD019956		0.17	0.004	0.11	1.42	22.1	<0.2	<10	350	0.50	0.56	0.63	1.16	22.6	10.1	29
DD019957		0.22	0.017	0.34	1.21	38.3	<0.2	<10	260	0.52	2.59	4.57	1.19	17.00	8.7	29
DD019958		0.11	0.005	0.28	1.08	24.4	<0.2	<10	400	0.40	1.41	2.72	1.11	12.80	8.0	29
DD019959		0.12	0.007	0.43	1.56	33.9	<0.2	<10	480	0.59	1.61	2.29	2.04	20.1	13.0	40
DD019960		0.12	0.006	0.31	1.39	29.5	<0.2	<10	380	0.50	1.59	1.40	1.13	20.2	12.0	38
DD019961		0.14	0.002	0.10	1.40	10.8	<0.2	<10	290	0.42	0.72	1.28	0.55	15.85	5.8	21
DD019621		0.20	0.001	0.28	0.45	23.3	<0.2	<10	120	0.31	0.34	3.32	1.21	11.45	5.5	5
DD019622		0.28	0.003	0.38	0.50	17.9	<0.2	<10	230	0.30	0.62	4.47	6.25	12.45	6.4	8
DD019623		0.28	0.008	0.29	1.27	15.6	<0.2	<10	470	0.42	1.36	3.92	2.03	20.6	8.7	30
DD019624		0.12	NSS	0.29	1.39	26.9	<0.2	<10	490	0.46	1.46	2.34	2.88	19.45	11.7	34
DD019625		0.24	0.007	0.28	1.18	52.5	<0.2	<10	360	0.44	1.80	4.15	1.73	17.65	10.2	30
DD019626		0.23	0.003	0.17	0.52	14	<0.2	<10	200	0.26	1.35	10.90	0.86	10.55	5.7	10
DD019627		0.24	0.004	0.19	0.83	16.5	<0.2	<10	240	0.33	0.83	2.78	0.49	24.8	9.9	18
DD019628		0.33	0.004	0.25	0.94	30.0	<0.2	<10	240	0.52	1.50	5.16	0.52	18.55	10.8	17
DD019629		0.30	0.010	0.18	0.99	23.1	<0.2	<10	230	0.46	1.76	3.99	0.61	17.20	9.6	19
DD019630		0.30	0.005	0.16	0.53	22.9	<0.2	<10	130	0.36	1.06	5.19	0.27	15.65	11.9	11
DD019631		0.44	0.010	0.95	0.29	58.5	<0.2	<10	50	0.37	0.40	4.20	1.00	21.4	15.6	5





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019933		1.14	19.3	2.89	4.60	<0.05	0.04	0.05	0.033	0.06	12.3	14.5	0.71	875	1.19	0.02
DD019934		1.19	12.8	3.81	5.40	0.05	0.06	0.03	0.046	0.05	15.1	15.2	0.97	769	1.73	0.02
DD019935		1.06	11.3	2.87	4.07	<0.05	0.03	0.04	0.033	0.05	11.3	12.9	1.80	457	1.45	0.02
DD019936		0.94	15.6	2.86	3.91	<0.05	0.03	0.04	0.031	0.06	12.1	13.0	2.62	577	1.43	0.03
DD019937		0.25	9.7	1.06	1.01	<0.05	0.02	0.03	0.031	0.05	5.3	4.2	8.62	409	0.65	0.02
DD019938		2.10	24.8	2.95	3.80	<0.05	0.03	0.09	0.040	0.06	10.8	12.4	1.41	368	1.06	0.03
DD019939		1.45	31.3	2.68	3.31	<0.05	0.03	0.08	0.030	0.07	9.2	13.6	4.50	756	1.54	0.04
DD019940		0.66	29.7	2.26	1.23	<0.05	0.04	0.05	0.016	0.03	5.9	4.5	4.92	545	1.12	0.02
DD019941		1.40	18.8	2.36	3.39	0.05	0.03	0.03	0.032	0.09	9.5	11.3	2.96	439	1.33	0.03
DD019942		1.10	41.0	2.96	3.37	<0.05	0.04	0.09	0.030	0.05	11.1	13.0	3.22	637	3.41	0.04
DD019943		2.45	48.6	3.57	3.66	0.07	0.03	0.09	0.035	0.18	9.6	14.5	2.32	577	4.71	0.04
DD019944		1.59	20.6	2.73	4.53	0.05	0.04	0.03	0.032	0.11	8.0	13.9	3.53	587	1.21	0.02
DD019945		1.49	19.1	2.52	3.78	<0.05	0.03	0.05	0.032	0.14	7.5	12.2	3.02	508	1.55	0.03
DD019946		1.40	18.5	2.18	3.25	<0.05	0.03	0.04	0.031	0.08	7.9	10.6	2.95	355	1.79	0.03
DD019947		2.16	51.1	3.21	4.49	0.06	0.06	0.10	0.038	0.14	12.9	13.0	1.97	500	6.93	0.04
DD019948		1.22	32.0	2.99	3.93	<0.05	0.04	0.10	0.034	0.08	10.0	12.3	0.98	439	4.77	0.03
DD019949		1.34	33.1	2.50	3.19	0.05	0.05	0.09	0.032	0.09	8.8	9.2	1.04	392	3.07	0.03
DD019950		1.38	28.3	2.42	3.33	<0.05	0.04	0.08	0.032	0.08	9.1	9.3	0.66	230	3.36	0.03
DD019951		0.69	35.0	1.83	2.30	<0.05	0.04	0.09	0.025	0.07	5.6	6.6	0.69	266	2.88	0.02
DD019952		1.50	47.4	3.48	4.75	0.06	0.05	0.08	0.039	0.12	12.5	15.0	0.87	495	4.75	0.03
DD019953		1.38	42.6	3.17	4.06	0.05	0.06	0.09	0.034	0.14	11.3	13.2	1.41	433	4.66	0.03
DD019954		1.10	30.7	1.81	2.01	<0.05	0.04	0.09	0.022	0.11	6.0	6.9	0.92	436	3.27	0.03
DD019955		0.29	9.5	0.40	0.53	<0.05	0.02	0.09	0.005	0.04	1.2	1.0	0.44	187	1.76	0.02
DD019956		0.80	29.0	2.94	4.18	<0.05	0.03	0.06	0.032	0.08	11.1	12.9	0.53	350	2.72	0.02
DD019957		2.23	24.4	2.42	3.44	<0.05	0.04	0.05	0.046	0.11	8.3	11.9	2.87	478	3.74	0.03
DD019958		1.60	26.6	2.17	3.00	<0.05	0.04	0.07	0.032	0.10	6.3	9.8	0.71	513	2.88	0.03
DD019959		2.52	42.9	3.11	4.54	0.05	0.05	0.08	0.044	0.14	9.3	16.5	1.03	1220	4.24	0.03
DD019960		2.06	29.5	2.88	4.08	0.05	0.04	0.07	0.041	0.12	9.5	14.6	0.78	642	2.68	0.02
DD019961		1.53	11.0	2.13	5.22	<0.05	<0.02	0.02	0.026	0.03	6.6	14.3	0.47	248	1.88	0.01
DD019621		0.41	11.8	2.21	0.98	<0.05	0.04	0.05	0.025	0.04	5.4	4.1	0.94	340	0.52	0.02
DD019622		0.70	17.1	2.05	1.19	<0.05	0.05	0.07	0.031	0.06	5.9	5.3	2.14	273	1.19	0.02
DD019623		1.15	25.1	2.35	3.35	<0.05	0.06	0.06	0.029	0.11	9.3	11.2	2.25	317	2.63	0.03
DD019624		1.05	22.1	2.98	3.84	0.05	0.05	0.08	0.033	0.12	8.7	12.0	0.83	518	2.83	0.03
DD019625		1.61	27.1	2.39	3.40	0.05	0.04	0.05	0.034	0.10	7.9	11.6	2.55	450	1.83	0.03
DD019626		0.69	10.7	1.38	1.41	<0.05	0.03	0.03	0.018	0.05	5.1	5.8	6.47	313	0.84	0.02
DD019627		1.04	28.5	2.45	2.29	<0.05	0.07	0.05	0.022	0.06	12.6	9.2	0.99	312	1.21	0.02
DD019628		0.96	29.6	3.03	2.57	<0.05	0.03	0.05	0.030	0.05	8.5	8.9	3.03	506	1.26	0.02
DD019629		0.78	20.8	2.97	2.44	<0.05	0.04	0.05	0.030	0.07	7.8	7.9	2.32	535	1.53	0.02
DD019630		0.41	27.1	3.15	1.41	<0.05	0.04	0.04	0.020	0.03	6.8	5.3	2.96	464	1.57	0.02
DD019631		0.32	69.2	3.45	0.75	0.05	0.04	0.13	0.037	0.03	9.7	2.8	2.22	392	5.33	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019933		0.98	26.6	700	21.8	11.2	<0.001	0.04	0.91	3.7	1.2	0.6	25.5	<0.01	0.04	2.1
DD019934		0.98	32.9	400	30.5	9.4	<0.001	0.01	0.90	6.3	0.7	0.8	13.4	<0.01	0.04	4.7
DD019935		0.72	22.8	760	24.5	9.5	<0.001	0.02	0.71	3.2	0.8	0.6	17.6	<0.01	0.03	1.4
DD019936		0.84	24.8	1110	31.6	9.7	<0.001	0.04	1.02	3.6	0.9	0.6	27.9	<0.01	0.03	1.2
DD019937		0.32	13.0	550	64.6	2.6	<0.001	0.01	1.08	1.2	0.4	0.7	42.0	<0.01	0.02	1.0
DD019938		0.80	30.5	1050	55.0	10.7	0.001	0.07	0.85	2.6	1.4	0.7	26.6	<0.01	0.04	1.1
DD019939		0.93	34.8	1030	27.4	12.5	<0.001	0.04	1.04	3.8	1.1	0.5	48.2	<0.01	0.03	1.7
DD019940		0.38	29.5	1040	18.6	4.2	<0.001	0.06	1.36	1.7	1.2	0.2	81.4	<0.01	0.01	1.6
DD019941		0.99	34.5	1070	20.6	10.9	0.001	0.06	0.94	2.4	0.9	0.7	47.9	<0.01	0.02	1.5
DD019942		1.10	53.1	690	19.6	6.9	<0.001	0.06	1.50	3.3	2.2	0.8	50.5	<0.01	0.03	1.2
DD019943		1.16	82.2	1540	17.5	20.7	<0.001	0.06	1.73	3.8	1.6	0.6	80.8	<0.01	0.03	1.9
DD019944		1.89	44.2	1670	17.2	10.3	0.003	0.08	0.68	2.6	0.9	0.7	83.4	<0.01	0.02	1.5
DD019945		1.32	38.6	1320	16.2	12.5	0.002	0.07	0.83	2.5	1.0	0.7	54.6	<0.01	0.03	1.5
DD019946		0.98	28.5	1030	19.5	10.3	<0.001	0.05	1.06	2.1	1.1	0.7	41.5	<0.01	0.02	1.5
DD019947		1.31	62.8	1410	20.1	15.5	<0.001	0.05	2.68	3.9	2.1	0.8	47.8	<0.01	0.05	2.5
DD019948		1.08	49.1	820	17.6	9.3	<0.001	0.06	1.87	2.9	2.1	0.7	36.3	<0.01	0.06	1.4
DD019949		1.03	44.2	1070	16.5	10.7	0.001	0.09	1.62	2.4	2.4	0.6	38.5	<0.01	0.03	1.3
DD019950		0.99	38.7	1010	15.5	7.7	0.001	0.07	1.55	2.3	2.1	0.7	33.5	<0.01	0.02	1.3
DD019951		0.64	31.9	720	10.6	6.9	0.002	0.13	1.83	1.3	1.5	0.5	55.6	<0.01	0.03	0.5
DD019952		1.16	55.7	760	22.3	12.2	0.002	0.06	2.56	3.6	3.0	1.3	37.9	<0.01	0.08	1.7
DD019953		0.97	49.5	1070	21.9	11.2	0.001	0.06	2.22	3.4	1.8	0.7	40.0	<0.01	0.04	2.1
DD019954		0.56	32.1	1100	12.1	9.3	0.001	0.13	1.52	1.3	2.1	0.4	54.9	<0.01	0.03	0.5
DD019955		0.13	7.5	740	2.8	2.4	0.001	0.20	0.47	0.4	0.9	<0.2	57.9	<0.01	0.01	0.2
DD019956		0.93	31.7	700	13.7	10.6	<0.001	0.05	1.13	3.0	1.6	0.7	20.3	<0.01	0.03	2.0
DD019957		0.87	39.0	890	29.8	13.8	0.002	0.06	1.67	2.3	1.6	1.8	44.5	<0.01	0.04	1.8
DD019958		0.77	33.2	900	23.3	11.6	0.003	0.15	1.60	1.6	2.8	1.3	45.7	<0.01	0.03	0.6
DD019959		1.11	56.8	1030	28.7	18.9	0.004	0.10	2.19	3.6	2.1	1.4	46.7	<0.01	0.04	1.7
DD019960		1.02	43.2	750	27.1	17.3	0.002	0.07	1.48	3.0	2.0	1.2	32.9	<0.01	0.05	1.6
DD019961		1.09	14.8	560	13.4	7.6	<0.001	0.06	0.58	1.6	0.7	0.7	29.8	<0.01	0.03	0.6
DD019621		0.17	11.2	880	84.4	3.7	<0.001	0.09	2.68	1.0	0.5	0.2	47.9	<0.01	0.05	0.7
DD019622		0.25	38.3	910	70.8	6.8	0.005	0.14	2.45	1.4	2.2	0.3	46.0	<0.01	0.02	1.0
DD019623		0.79	37.8	1090	25.1	8.5	0.006	0.13	1.49	2.6	3.6	0.6	37.2	<0.01	0.02	1.6
DD019624		0.96	42.1	860	26.0	13.1	0.002	0.11	1.44	2.6	2.3	0.7	48.9	<0.01	0.05	1.2
DD019625		0.90	43.6	860	20.1	10.4	0.003	0.09	1.29	2.5	1.6	0.8	46.2	<0.01	0.05	1.3
DD019626		0.45	15.2	700	17.1	5.1	0.002	0.06	0.88	1.3	0.8	0.3	57.9	<0.01	0.01	1.0
DD019627		0.48	30.3	690	15.0	7.5	0.003	0.10	0.77	1.9	1.4	0.4	65.6	<0.01	0.02	2.3
DD019628		0.53	28.6	860	20.4	7.0	<0.001	0.06	1.96	2.6	1.2	0.5	66.6	<0.01	0.04	1.1
DD019629		0.70	24.8	820	22.0	6.5	<0.001	0.06	1.51	2.5	0.7	0.5	37.5	<0.01	0.03	1.7
DD019630		0.30	24.8	740	16.4	3.8	<0.001	0.06	2.67	2.2	1.4	0.3	67.1	<0.01	0.04	1.8
DD019631		0.11	31.2	790	110.5	2.5	0.001	0.06	18.75	2.4	2.0	<0.2	47.6	<0.01	0.08	2.7

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019933		0.028	0.13	1.28	56	0.47	8.10	140	1.3
DD019934		0.026	0.14	0.96	73	0.48	10.00	223	2.2
DD019935		0.024	0.11	0.93	55	0.84	8.63	151	0.8
DD019936		0.028	0.12	0.89	49	0.42	11.75	184	1.0
DD019937		0.017	0.05	0.79	21	0.75	3.66	230	0.9
DD019938		0.031	0.14	4.17	49	0.79	9.27	983	1.0
DD019939		0.037	0.15	1.61	44	0.39	11.20	182	1.3
DD019940		0.019	0.08	1.40	17	0.26	10.05	207	1.2
DD019941		0.035	0.18	0.94	43	3.81	6.81	165	1.2
DD019942		0.036	0.21	1.09	57	0.88	13.05	134	1.4
DD019943		0.058	0.41	1.09	61	3.45	10.00	211	1.5
DD019944		0.093	0.15	0.75	48	1.10	6.54	229	1.2
DD019945		0.066	0.18	0.70	46	1.87	5.67	200	1.0
DD019946		0.035	0.21	0.74	43	2.11	5.67	159	1.1
DD019947		0.047	0.37	0.93	86	0.96	10.15	254	2.5
DD019948		0.036	0.24	0.96	74	0.93	8.13	186	1.5
DD019949		0.033	0.24	1.42	61	1.12	7.30	215	1.7
DD019950		0.033	0.25	1.37	65	0.99	6.97	218	1.5
DD019951		0.018	0.13	2.16	43	0.15	6.83	152	1.6
DD019952		0.034	0.23	2.67	76	0.27	10.55	198	1.9
DD019953		0.034	0.20	1.02	63	0.25	9.07	167	2.2
DD019954		0.019	0.16	1.80	36	0.16	5.84	141	1.6
DD019955		0.007	0.04	0.39	7	<0.05	1.20	84	0.8
DD019956		0.028	0.13	1.25	54	0.27	6.61	118	1.0
DD019957		0.036	0.27	0.83	60	4.65	6.48	195	1.6
DD019958		0.030	0.23	1.85	49	2.75	5.29	148	1.3
DD019959		0.043	0.37	1.63	68	2.09	8.40	261	2.0
DD019960		0.044	0.28	1.05	64	2.12	7.02	202	1.4
DD019961		0.032	0.11	0.53	50	0.65	2.75	81	<0.5
DD019621		0.006	0.08	0.72	11	0.10	5.65	384	1.3
DD019622		0.007	0.16	2.63	20	0.15	5.89	648	1.6
DD019623		0.029	0.19	3.03	53	0.68	7.91	243	1.8
DD019624		0.031	0.21	1.51	65	0.85	6.93	476	1.8
DD019625		0.036	0.20	1.29	61	1.47	6.75	196	1.3
DD019626		0.015	0.08	0.95	26	1.04	4.67	145	1.0
DD019627		0.021	0.10	2.28	24	0.57	8.72	119	2.4
DD019628		0.021	0.10	0.55	30	0.74	10.60	125	1.0
DD019629		0.026	0.13	0.59	36	1.11	7.58	139	1.3
DD019630		0.013	0.06	0.39	18	0.57	9.40	78	1.1
DD019631		0.005	0.20	0.66	11	1.22	7.94	290	1.2



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019632		0.29	0.003	0.25	0.59	13.1	<0.2	<10	200	0.32	0.62	5.16	0.69	20.0	7.2	10
DD019633		0.45	0.004	0.16	0.41	11	<0.2	<10	280	0.18	1.42	16.45	0.63	6.39	3.4	8
DD019634		0.31	0.003	0.49	1.42	18.0	<0.2	<10	190	0.59	2.24	6.32	0.99	19.50	8.1	25
DD019635		0.42	0.008	0.20	0.69	18	<0.2	<10	190	0.28	1.48	13.05	0.44	10.50	5.0	14
DD019636		0.24	0.006	0.34	1.40	16.4	<0.2	<10	500	0.63	1.72	2.95	1.20	19.50	8.2	24
DD019637		0.27	0.002	0.32	1.33	15.8	<0.2	<10	280	0.48	0.87	2.90	1.01	16.70	7.7	21
DD019638		0.38	0.003	0.27	1.36	20.8	<0.2	<10	400	0.57	1.84	2.42	0.78	19.25	8.2	25
DD019639		0.30	0.003	0.20	1.14	20.6	<0.2	<10	480	0.48	1.79	2.62	1.06	16.10	7.9	21
DD019640		0.35	0.004	0.31	0.97	25.1	<0.2	<10	290	0.42	2.20	5.85	0.77	15.30	8.4	19
DD019641		0.29	0.003	1.01	0.53	23.5	<0.2	<10	110	0.42	0.65	3.69	1.68	13.05	7.5	12
DD019642		0.35	0.004	0.21	1.07	18.4	<0.2	<10	310	0.45	0.81	2.39	0.60	19.45	7.4	20
DD019644		0.18	0.004	0.36	1.28	16.5	<0.2	<10	440	0.52	2.35	4.88	1.35	14.00	8.2	26
DD019645		0.24	0.002	0.10	1.61	12.4	<0.2	<10	500	0.59	2.42	1.66	1.98	19.00	7.9	29
DD019646		0.36	0.044	0.33	1.19	22.5	<0.2	<10	280	0.51	3.46	6.06	0.58	13.75	8.0	24
DD019647		0.20	0.004	0.23	1.37	17.6	<0.2	<10	530	0.55	2.42	1.79	1.24	17.00	10.2	27
DD019648		0.27	0.005	0.18	1.77	18.6	<0.2	<10	540	0.65	2.04	0.82	0.44	22.6	11.0	33
DD019649		0.32	0.004	0.45	1.58	32.3	<0.2	<10	310	0.65	2.82	3.85	0.75	21.0	11.3	30
DD019650		0.38	0.007	0.43	1.26	42.8	<0.2	<10	440	0.56	8.85	7.60	0.80	15.40	10.0	26
DD019651		0.17	0.012	0.32	1.24	20.7	<0.2	<10	360	0.45	2.11	2.78	1.65	12.20	8.8	27
DD019652		0.24	0.012	0.36	1.64	30.8	<0.2	<10	330	0.61	4.66	1.60	1.19	21.2	12.0	41
DD019653		0.15	0.004	0.19	1.59	22.9	<0.2	<10	310	0.52	2.04	1.95	0.82	16.50	13.1	49
DD019654		0.22	0.005	0.36	1.61	26.1	<0.2	<10	350	0.58	2.23	1.97	0.99	19.15	12.7	45
DD019655		0.17	0.005	0.32	1.96	22.4	<0.2	<10	320	0.59	2.32	2.10	1.08	18.35	17.2	75
DD019656		0.27	0.061	0.45	2.20	29.9	<0.2	<10	320	0.61	3.75	5.42	0.85	14.75	16.3	83
DD019657		0.21	0.090	0.75	1.68	38.8	<0.2	<10	320	0.66	5.34	4.91	1.59	18.40	13.2	47
DD019658		0.25	0.008	0.55	2.24	38.6	<0.2	<10	330	0.61	4.91	5.64	1.09	18.10	17.5	74
DD019659		0.30	0.006	0.51	2.00	28.9	<0.2	<10	420	0.74	3.58	4.36	1.10	16.80	13.8	63
DD019660		0.32	0.007	0.41	1.88	24.6	<0.2	<10	390	0.64	1.94	4.41	1.27	19.20	13.5	60
DD018831		0.15	0.007	0.87	1.57	35.7	<0.2	<10	320	0.82	1.35	0.40	13.55	25.6	11.4	38
DD018832		0.14	0.008	0.69	0.49	21.7	<0.2	<10	230	0.39	1.07	0.10	1.53	27.7	2.2	23
DD018833		0.17	0.008	1.17	0.94	18.8	<0.2	<10	190	0.33	3.66	0.20	1.94	19.85	4.0	30
DD018834		0.09	0.001	0.22	0.79	11.2	<0.2	<10	300	0.26	0.86	1.94	12.30	11.10	6.7	18
DD018835		0.22	0.007	0.39	1.37	33.5	<0.2	<10	350	0.58	1.54	4.90	1.78	23.3	12.0	29
DD018836		0.15	0.004	0.39	1.94	25.0	<0.2	<10	260	0.72	3.96	2.09	0.78	19.35	10.3	40
DD018837		0.20	0.016	0.48	1.27	24.6	<0.2	<10	230	0.49	2.06	3.32	0.81	18.05	7.8	26
DD018838		0.17	0.013	0.43	1.21	33.4	<0.2	<10	310	0.56	1.37	1.21	2.17	21.2	11.2	26
DD018839		0.07	0.009	0.30	0.96	16.4	<0.2	<10	330	0.40	0.80	2.20	3.06	12.65	7.1	19
DD018840		0.25	0.008	0.12	1.60	21.6	<0.2	<10	230	0.65	2.23	0.34	0.18	21.4	9.3	30
DD018841		0.09	0.015	0.16	0.23	6.9	<0.2	<10	90	0.31	0.14	1.79	3.43	7.49	3.4	7
DD018842		0.18	0.008	0.38	0.71	28.2	<0.2	<10	320	0.68	2.86	2.92	3.20	19.35	10.9	17





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**CERTIFICATE OF ANALYSIS WH12132949**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019632		0.47	34.7	1.99	1.50	<0.05	0.06	0.07	0.022	0.04	9.6	6.3	2.84	525	1.25	0.02
DD019633		0.42	7.9	0.84	1.03	<0.05	0.03	0.03	0.011	0.04	3.0	4.1	10.25	457	0.50	0.02
DD019634		1.24	16.0	2.31	3.78	<0.05	0.03	0.05	0.030	0.07	8.6	11.6	4.16	589	1.07	0.03
DD019635		0.67	14.4	1.40	1.74	<0.05	0.03	0.04	0.019	0.05	5.2	6.3	8.04	382	0.93	0.03
DD019636		0.75	26.5	2.48	3.65	<0.05	0.04	0.07	0.032	0.04	9.6	10.5	1.40	849	0.88	0.02
DD019637		1.06	19.2	2.71	3.32	<0.05	0.06	0.07	0.037	0.06	8.1	11.2	1.28	682	1.07	0.02
DD019638		0.87	18.3	2.62	3.63	<0.05	0.05	0.06	0.032	0.06	9.3	12.1	1.49	432	1.39	0.02
DD019639		0.65	27.1	2.41	3.08	<0.05	0.04	0.05	0.029	0.06	8.7	11.5	1.28	379	1.50	0.02
DD019640		0.66	22.8	2.33	2.58	<0.05	0.04	0.07	0.027	0.08	8.0	8.8	3.64	449	1.64	0.02
DD019641		0.40	21.7	2.98	1.31	<0.05	0.07	0.11	0.024	0.04	7.3	4.1	1.57	383	1.77	0.01
DD019642		0.51	23.0	2.38	3.06	0.05	0.07	0.07	0.024	0.05	10.3	11.0	1.51	316	1.62	0.02
DD019644		1.13	20.2	2.31	3.42	<0.05	0.03	0.07	0.031	0.05	7.7	10.4	2.91	662	0.86	0.02
DD019645		0.96	12.1	2.66	4.77	<0.05	<0.02	0.07	0.034	0.03	9.9	9.8	0.57	464	0.80	0.02
DD019646		1.11	24.6	2.19	3.37	<0.05	0.05	0.07	0.033	0.05	7.8	10.3	3.97	433	1.21	0.03
DD019647		1.04	17.9	2.55	4.00	<0.05	0.03	0.06	0.029	0.06	7.9	12.8	0.83	709	0.96	0.02
DD019648		1.20	13.8	3.13	5.28	<0.05	0.03	0.05	0.036	0.04	10.8	13.6	0.66	619	0.75	0.02
DD019649		1.26	26.4	2.97	4.45	0.05	0.04	0.08	0.036	0.07	11.8	13.6	2.61	729	1.51	0.02
DD019650		1.30	27.4	2.55	3.52	<0.05	0.03	0.06	0.027	0.06	8.5	10.3	5.03	532	1.49	0.03
DD019651		1.84	39.6	2.12	3.61	<0.05	0.04	0.06	0.030	0.08	6.9	10.7	0.85	487	1.93	0.03
DD019652		2.29	34.8	3.19	4.77	0.05	0.04	0.08	0.040	0.10	11.0	14.7	1.17	578	2.77	0.03
DD019653		1.63	27.6	3.03	5.00	<0.05	0.03	0.05	0.040	0.10	8.7	17.4	1.17	446	2.18	0.02
DD019654		2.51	33.5	3.01	4.73	0.05	0.04	0.07	0.040	0.11	10.0	16.1	1.12	576	2.28	0.02
DD019655		5.90	35.1	3.29	6.03	0.06	0.03	0.06	0.038	0.17	9.6	19.7	1.84	674	1.76	0.03
DD019656		10.10	39.5	3.41	6.31	0.05	0.07	0.04	0.043	0.38	8.1	20.7	3.66	649	1.90	0.03
DD019657		4.61	42.6	2.99	4.89	0.05	0.05	0.06	0.058	0.16	9.3	15.8	3.31	792	2.88	0.03
DD019658		10.00	41.5	3.58	6.51	0.05	0.04	0.04	0.051	0.35	9.7	22.4	4.16	746	2.21	0.03
DD019659		7.74	46.5	3.30	5.66	0.05	0.05	0.05	0.044	0.28	9.7	19.6	2.58	565	2.03	0.03
DD019660		6.27	40.2	3.17	5.38	0.06	0.05	0.05	0.040	0.24	10.7	18.7	2.60	687	2.74	0.03
DD018831		1.89	84.1	3.14	4.52	0.06	0.03	0.20	0.047	0.09	15.9	14.0	0.45	370	20.0	0.01
DD018832		1.34	43.0	1.93	2.49	0.07	<0.02	0.19	0.032	0.04	19.9	2.9	0.08	69	21.5	0.01
DD018833		2.47	25.0	2.29	4.85	<0.05	<0.02	0.14	0.039	0.05	12.5	7.7	0.40	84	16.90	0.01
DD018834		1.57	17.7	1.57	2.24	<0.05	0.04	0.10	0.023	0.05	5.9	7.1	0.49	476	2.83	0.02
DD018835		2.20	50.7	3.15	3.80	0.06	0.10	0.08	0.041	0.17	12.2	13.5	2.65	605	4.63	0.03
DD018836		2.41	38.3	3.36	5.30	0.06	0.04	0.08	0.038	0.08	12.7	19.2	1.81	400	2.80	0.06
DD018837		1.55	27.5	2.65	3.58	<0.05	0.03	0.05	0.036	0.07	9.4	12.2	2.11	335	2.97	0.03
DD018838		1.02	30.1	2.88	3.48	<0.05	0.06	0.14	0.035	0.09	11.1	11.8	0.60	539	12.25	0.01
DD018839		0.81	22.8	1.81	2.90	<0.05	0.04	0.12	0.026	0.06	6.7	9.4	0.53	432	5.88	0.02
DD018840		1.47	17.9	2.99	4.52	<0.05	0.03	0.03	0.042	0.05	10.7	14.8	0.60	500	11.80	0.01
DD018841		0.43	22.2	0.94	0.66	<0.05	0.05	0.16	0.009	0.03	4.9	0.7	0.10	98	38.2	0.02
DD018842		0.60	42.1	3.10	2.00	0.05	0.05	0.25	0.026	0.06	12.5	6.0	1.02	412	47.7	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD019632		0.29	18.2	900	33.7	4.5	<0.001	0.07	2.06	1.9	0.7	0.2	42.5	<0.01	0.04	1.9
DD019633		0.30	10.2	490	17.8	3.5	<0.001	0.03	0.58	1.0	<0.2	0.2	40.6	<0.01	0.02	0.6
DD019634		0.76	23.4	690	26.0	8.9	<0.001	0.05	0.86	2.8	0.9	0.7	23.2	<0.01	0.03	1.2
DD019635		0.51	15.7	720	17.7	5.1	<0.001	0.03	0.78	1.7	0.4	0.4	38.1	<0.01	<0.01	1.3
DD019636		0.69	25.0	920	21.6	5.7	<0.001	0.08	0.82	2.1	1.2	0.5	22.4	<0.01	0.03	0.6
DD019637		0.64	23.7	970	36.4	10.8	<0.001	0.08	1.28	2.2	0.6	0.5	29.7	<0.01	0.03	1.1
DD019638		0.76	25.8	710	23.3	8.2	<0.001	0.04	0.95	2.9	0.7	0.5	23.1	<0.01	0.03	1.5
DD019639		0.81	30.2	580	23.6	6.4	0.001	0.03	1.01	2.6	0.5	0.4	27.0	<0.01	0.04	1.4
DD019640		0.58	26.2	960	26.0	7.1	<0.001	0.03	1.17	2.4	0.5	0.4	30.8	<0.01	0.05	1.4
DD019641		0.25	21.7	930	83.8	4.0	<0.001	0.04	1.67	1.3	0.8	0.3	28.9	<0.01	0.02	2.7
DD019642		0.60	24.3	720	23.7	5.4	<0.001	0.02	1.06	2.9	0.5	0.4	20.6	<0.01	0.02	2.2
DD019644		0.81	26.6	800	35.3	8.2	<0.001	0.04	0.78	2.4	0.5	0.5	22.2	<0.01	0.04	1.2
DD019645		0.97	18.4	610	32.2	5.3	<0.001	0.04	0.60	2.5	0.2	0.7	13.0	<0.01	0.02	0.7
DD019646		0.87	28.0	860	25.7	7.3	<0.001	0.02	0.88	2.7	1.2	0.8	27.7	<0.01	0.05	1.4
DD019647		0.97	23.4	650	26.5	11.4	<0.001	0.07	0.71	2.3	0.7	0.6	17.1	<0.01	0.03	0.8
DD019648		1.03	26.8	380	36.3	7.2	0.001	0.02	0.57	3.8	0.7	0.8	13.7	<0.01	0.02	2.1
DD019649		0.83	35.7	990	31.4	10.2	<0.001	0.03	1.05	3.3	0.7	0.8	23.8	<0.01	0.04	1.5
DD019650		0.95	33.1	870	33.0	7.1	0.001	0.01	1.08	3.1	0.5	0.7	32.6	<0.01	0.09	1.7
DD019651		0.94	36.7	790	19.4	10.8	0.001	0.10	1.35	1.7	0.9	1.1	44.6	<0.01	0.02	0.6
DD019652		1.14	46.3	770	31.0	12.6	0.001	0.04	1.60	3.4	1.4	1.4	25.1	<0.01	0.05	2.1
DD019653		1.40	46.2	610	25.7	14.6	<0.001	0.05	1.27	3.5	0.7	1.1	36.2	<0.01	0.02	1.4
DD019654		1.23	45.8	850	26.6	16.1	<0.001	0.05	1.45	3.3	0.6	1.6	34.5	<0.01	0.06	1.6
DD019655		1.94	67.3	960	23.9	27.9	0.001	0.04	1.12	4.5	0.6	1.2	36.8	<0.01	0.04	1.8
DD019656		2.19	72.3	830	27.3	46.2	0.001	0.02	1.13	4.7	0.8	1.9	56.5	<0.01	0.03	2.1
DD019657		1.25	54.1	780	39.7	27.3	0.001	0.03	1.61	3.7	1.3	2.5	43.6	<0.01	0.04	2.1
DD019658		2.23	72.2	870	36.8	46.2	0.001	0.03	1.36	4.9	1.0	2.1	51.4	<0.01	0.03	2.7
DD019659		1.73	62.7	870	30.6	41.3	0.001	0.04	1.50	4.0	0.8	1.6	42.9	<0.01	0.05	1.7
DD019660		1.66	57.9	930	32.4	37.4	<0.001	0.02	1.54	4.3	1.0	1.4	50.0	<0.01	0.02	2.3
DD018831		0.77	164.5	1080	25.6	13.4	0.002	0.03	2.66	3.8	5.6	1.0	31.2	<0.01	0.10	2.5
DD018832		0.18	45.8	1850	28.6	5.8	0.001	0.01	4.05	0.6	4.5	1.2	117.0	<0.01	0.28	0.3
DD018833		0.81	25.7	780	45.6	9.5	<0.001	0.04	3.65	1.4	2.4	2.1	45.4	<0.01	0.31	0.6
DD018834		0.56	24.3	880	14.3	14.1	0.004	0.09	1.00	1.7	3.1	0.9	43.6	<0.01	0.04	1.1
DD018835		0.71	48.4	1080	29.7	17.2	0.002	0.02	2.20	4.0	2.0	1.0	59.3	<0.01	0.07	4.4
DD018836		1.19	45.5	740	25.3	11.3	0.001	0.03	1.39	4.3	0.9	1.0	30.6	<0.01	0.07	2.3
DD018837		0.94	30.8	770	25.4	9.8	0.001	0.04	1.45	3.1	1.1	0.8	33.1	0.03	0.04	2.2
DD018838		0.87	47.5	910	24.8	8.4	0.005	0.05	1.86	2.9	2.5	0.9	34.1	<0.01	0.05	2.3
DD018839		0.66	31.5	950	14.6	6.7	0.002	0.10	1.21	1.7	3.3	0.6	47.2	<0.01	0.02	0.9
DD018840		0.70	29.0	490	21.8	8.9	0.001	0.01	1.05	2.9	1.3	1.6	14.0	<0.01	0.06	3.1
DD018841		0.13	111.0	540	9.0	2.0	0.001	0.10	1.11	0.8	3.0	0.4	35.5	<0.01	0.04	0.8
DD018842		0.52	213	980	18.7	5.4	0.002	0.08	2.38	2.6	6.0	0.7	69.4	<0.01	0.06	1.9





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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte Units LOR	Ti	Ti	U	V	W	Y	Zn	Zr
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019632		0.011	0.07	0.70	18	0.27	7.38	198	1.3
DD019633		0.011	0.05	0.45	17	0.82	2.78	148	0.7
DD019634		0.028	0.14	0.67	47	0.92	7.26	220	0.9
DD019635		0.021	0.07	0.54	26	0.76	4.42	127	1.0
DD019636		0.024	0.07	0.77	48	0.92	8.67	128	1.1
DD019637		0.017	0.13	1.48	36	0.37	6.74	324	1.9
DD019638		0.027	0.11	0.42	47	1.12	7.11	152	1.3
DD019639		0.024	0.11	0.52	40	0.42	7.56	130	1.5
DD019640		0.020	0.13	0.60	35	0.57	7.72	153	1.4
DD019641		0.009	0.23	1.34	18	0.19	9.57	644	2.2
DD019642		0.023	0.10	0.65	38	0.30	8.22	129	1.9
DD019644		0.029	0.10	0.60	47	0.66	7.37	314	1.1
DD019645		0.031	0.13	1.14	66	0.62	7.50	260	0.6
DD019646		0.033	0.14	0.64	45	1.24	7.56	142	1.1
DD019647		0.031	0.11	1.04	49	0.65	5.72	217	0.9
DD019648		0.033	0.15	1.15	76	0.73	6.94	270	0.9
DD019649		0.032	0.16	0.83	55	0.84	10.85	258	1.1
DD019650		0.037	0.16	0.65	45	2.02	8.06	214	1.2
DD019651		0.035	0.24	0.99	46	2.06	6.68	135	1.3
DD019652		0.049	0.31	0.91	67	3.87	8.83	180	1.6
DD019653		0.051	0.24	0.87	61	2.54	6.72	165	1.1
DD019654		0.050	0.28	1.12	62	1.99	8.66	165	1.4
DD019655		0.088	0.48	0.81	67	3.19	9.07	165	1.3
DD019656		0.124	0.80	0.57	68	9.62	7.79	193	1.6
DD019657		0.063	0.51	0.98	57	8.50	8.58	263	1.6
DD019658		0.118	0.79	0.62	69	6.15	9.30	220	1.8
DD019659		0.090	0.61	0.92	64	8.25	8.92	200	1.5
DD019660		0.082	0.51	0.73	64	4.81	10.10	195	1.7
DD018831		0.019	0.74	8.99	256	0.89	17.75	1360	1.2
DD018832		0.010	0.42	2.30	126	0.93	5.39	327	<0.5
DD018833		0.039	0.63	1.06	139	5.23	3.65	154	<0.5
DD018834		0.019	0.16	1.34	32	2.85	4.91	709	1.7
DD018835		0.042	0.36	0.90	56	0.88	10.10	218	5.2
DD018836		0.065	0.29	0.90	87	1.89	15.95	156	1.3
DD018837		0.039	0.24	1.08	56	2.03	9.41	142	1.2
DD018838		0.022	0.22	1.88	52	0.52	9.70	315	2.3
DD018839		0.020	0.14	4.17	37	2.30	5.52	230	1.7
DD018840		0.025	0.23	0.82	61	5.73	4.39	136	1.0
DD018841		0.008	0.18	3.16	17	0.48	11.70	296	2.0
DD018842		0.016	0.28	3.13	44	0.98	24.1	849	2.0



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018843		0.11	0.004	0.27	0.54	26.0	<0.2	<10	570	0.21	1.49	3.68	4.04	5.69	4.4	12
DD018844		0.15	0.010	0.47	1.26	27.9	<0.2	<10	390	0.55	2.65	1.42	2.70	22.5	8.0	26
DD018845		0.09	0.008	0.19	0.48	17.9	<0.2	10	270	0.25	0.59	4.04	8.92	5.78	7.2	13
DD018846		0.16	0.008	0.18	0.32	14.5	<0.2	<10	170	0.19	0.35	3.02	1.60	4.96	3.5	6
DD018847		0.14	0.010	0.31	0.41	11.5	<0.2	<10	240	0.24	0.61	3.59	4.16	5.78	5.3	7
DD018848		0.23	0.007	0.57	0.24	5.0	<0.2	<10	200	0.12	0.48	5.13	8.79	1.96	1.4	6
DD018849		0.16	0.008	2.62	2.10	70.5	<0.2	<10	280	0.79	0.89	0.09	2.89	30.5	14.5	47
DD018850		0.22	0.016	1.12	1.24	56.8	<0.2	<10	280	0.74	0.84	0.32	5.52	24.2	10.2	53
DD018851		0.08	0.018	0.16	0.45	20.0	<0.2	<10	200	0.16	2.51	2.00	1.08	8.03	4.3	13
DD018852		0.14	0.027	0.37	0.51	28.8	<0.2	<10	180	0.24	0.51	2.96	11.95	9.73	7.4	13
DD018853		0.10	0.012	0.90	0.63	25.4	<0.2	<10	140	0.57	0.30	1.40	16.75	17.30	7.1	54
DD018854		0.13	0.008	0.34	0.35	11.3	<0.2	<10	190	0.19	0.34	1.60	9.29	9.06	2.5	13
DD018855		0.16	0.074	0.23	0.89	63.7	<0.2	<10	220	0.30	1.02	1.45	5.41	21.2	11.8	21
DD018856		0.09	0.011	0.22	0.58	41.3	<0.2	<10	250	0.33	0.62	2.55	3.30	15.85	8.8	13
DD018857		0.08	NSS	0.28	0.64	49.6	<0.2	<10	220	0.25	0.72	1.77	1.36	12.10	10.1	14
DD018858		0.21	0.024	0.31	1.57	57.7	<0.2	<10	420	0.61	1.29	0.20	1.96	36.5	11.1	29
DD018859		0.21	0.003	0.84	1.55	26.3	<0.2	<10	150	0.45	0.69	0.12	1.85	27.0	6.3	25
DD018860		0.24	0.010	0.76	2.13	45.1	<0.2	<10	480	0.95	1.14	0.13	2.16	40.5	15.9	38
DD018861		0.19	0.007	0.71	1.39	51.1	<0.2	<10	130	0.60	1.28	0.05	1.71	28.0	8.6	31
DD018862		0.19	0.004	0.33	0.87	35.5	<0.2	<10	90	0.26	1.29	0.05	1.28	31.9	4.0	19
DD018863		0.15	0.006	0.35	0.87	35.3	<0.2	<10	520	0.40	0.84	2.13	5.77	15.50	8.9	19
DD018864		0.23	0.006	0.24	0.94	40.4	<0.2	<10	160	0.26	1.20	0.06	0.90	26.6	5.2	26
DD018865		0.11	0.014	0.30	0.90	17.3	<0.2	<10	280	0.19	0.71	0.78	1.36	18.00	4.9	20
DD018866		0.11	0.005	0.31	1.07	75.6	<0.2	<10	430	0.34	1.01	1.32	3.30	18.00	7.7	24
DD018867		0.22	0.007	0.47	1.01	41.1	<0.2	<10	150	0.28	1.35	0.07	0.55	26.2	5.6	22
DD018868		0.12	0.023	0.32	1.02	22.8	<0.2	<10	520	0.29	0.84	0.87	3.21	17.55	7.4	22
DD018869		0.10	0.008	0.34	1.20	36.4	<0.2	<10	510	0.38	1.04	0.86	3.45	20.3	11.3	27
DD018870		0.03	NSS	0.17	0.10	2.9	<0.2	<10	150	0.05	0.10	1.80	3.11	2.08	0.6	5
DD019661		0.36	0.017	1.28	1.46	103.5	<0.2	<10	320	0.61	14.10	9.40	2.34	15.60	10.6	38
DD019662		0.30	0.018	0.94	1.50	64	<0.2	<10	310	0.72	7.94	10.65	1.87	15.85	11.3	39
DD019663		0.38	0.008	1.30	1.73	54.5	<0.2	<10	270	0.59	9.11	9.13	1.46	15.20	12.8	55
DD019664		0.18	0.005	0.26	1.37	15.3	<0.2	<10	250	0.49	2.78	1.83	1.26	19.05	14.7	34
DD019665		0.21	0.002	0.08	1.61	13.7	<0.2	<10	150	0.70	1.67	0.68	0.46	41.5	10.9	26
DD019666		0.26	0.004	0.26	1.60	14.7	<0.2	<10	220	0.67	4.92	3.56	0.71	25.3	16.5	32
DD019667		0.21	0.004	0.21	2.44	15.8	<0.2	<10	280	0.72	5.46	2.01	0.69	28.9	20.8	39
DD019668		0.15	0.003	0.14	0.82	10.3	<0.2	<10	330	0.21	0.56	0.69	1.56	18.65	3.8	20
DD019669		0.22	0.014	0.35	1.73	24.0	<0.2	<10	280	0.57	2.44	2.44	1.07	23.9	14.8	41
DD019670		0.21	0.002	0.04	2.73	18.9	<0.2	<10	360	0.62	2.51	0.38	0.65	24.4	17.8	55
DD019671		0.16	0.002	0.11	2.73	16.4	<0.2	<10	500	0.70	2.94	1.07	1.68	26.0	20.7	43
DD019672		0.15	0.005	0.17	2.54	12.4	<0.2	<10	390	0.52	5.50	2.08	1.12	20.1	26.0	51





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD018843		0.54	26.1	1.22	1.41	<0.05	0.05	0.11	0.020	0.05	3.4	4.6	0.51	246	4.29	0.02
DD018844		1.10	46.5	2.24	3.41	0.06	0.06	0.09	0.038	0.08	11.0	12.8	0.59	236	4.41	0.02
DD018845		0.79	46.2	1.24	1.28	<0.05	0.04	0.09	0.016	0.05	3.3	3.8	0.50	363	3.46	0.03
DD018846		0.27	22.3	0.83	0.90	<0.05	0.02	0.10	0.009	0.04	2.9	2.5	0.35	369	13.80	0.02
DD018847		0.45	31.1	0.86	1.12	0.05	0.04	0.10	0.015	0.03	3.2	2.5	0.34	570	3.61	0.03
DD018848		0.46	52.3	0.28	0.50	<0.05	0.03	0.13	0.011	0.02	1.1	0.7	0.38	161	1.66	0.02
DD018849		2.06	130.5	4.40	5.05	0.08	0.03	0.20	0.084	0.14	14.4	19.5	0.66	164	8.30	0.04
DD018850		2.17	88.8	4.58	4.94	0.07	<0.02	0.12	0.052	0.11	13.0	8.2	0.20	794	9.89	0.02
DD018851		0.61	18.9	1.40	1.61	0.05	0.03	0.08	0.017	0.03	4.5	3.7	0.35	121	2.22	0.02
DD018852		0.83	54.0	1.45	1.55	<0.05	0.04	0.16	0.016	0.05	5.8	3.7	0.32	314	4.17	0.02
DD018853		1.94	103.0	1.59	2.22	0.13	0.09	0.41	0.034	0.16	12.7	8.6	0.61	279	27.4	0.01
DD018854		1.10	33.1	0.82	1.42	<0.05	0.02	0.09	0.014	0.08	4.9	2.8	0.35	76	6.75	0.01
DD018855		0.89	33.5	2.94	2.77	0.06	0.04	0.07	0.030	0.07	10.8	9.2	0.48	468	5.58	0.01
DD018856		0.36	35.7	2.02	1.76	0.06	0.02	0.08	0.020	0.04	9.2	5.3	0.35	492	9.31	0.01
DD018857		0.55	25.7	2.22	2.03	0.05	0.05	0.08	0.022	0.05	6.8	5.9	0.40	685	4.10	0.01
DD018858		1.33	54.0	3.41	5.04	0.06	0.03	0.09	0.042	0.10	20.1	15.8	0.46	372	8.14	0.01
DD018859		0.85	31.8	2.72	5.74	0.06	<0.02	0.05	0.031	0.07	15.0	14.5	0.29	183	7.86	<0.01
DD018860		1.54	63.7	3.59	5.54	0.07	0.07	0.23	0.046	0.10	20.7	19.0	0.58	549	8.94	0.01
DD018861		1.34	40.4	3.87	6.06	0.06	<0.02	0.07	0.057	0.07	15.6	16.4	0.27	310	13.80	<0.01
DD018862		1.23	25.1	2.38	6.13	0.06	<0.02	0.04	0.027	0.07	17.9	5.1	0.14	188	11.10	<0.01
DD018863		0.68	35.5	2.10	2.77	0.05	0.06	0.10	0.027	0.06	8.9	8.4	0.44	390	7.02	0.01
DD018864		1.34	18.8	2.33	4.68	0.06	<0.02	0.05	0.025	0.07	14.7	8.0	0.27	238	15.70	<0.01
DD018865		0.91	10.9	1.36	3.79	0.05	0.02	0.09	0.020	0.06	9.6	11.4	0.37	143	3.23	0.01
DD018866		0.89	20.3	2.67	3.19	0.07	0.06	0.10	0.032	0.08	10.0	11.9	0.50	334	8.71	0.01
DD018867		0.85	16.7	2.64	4.48	0.05	<0.02	0.07	0.026	0.08	14.0	7.8	0.24	255	13.50	<0.01
DD018868		0.68	16.5	1.94	3.64	0.05	0.02	0.11	0.028	0.07	9.3	10.8	0.41	325	6.30	0.01
DD018869		1.07	24.7	2.52	4.13	<0.05	0.02	0.11	0.031	0.07	11.3	12.9	0.50	796	12.75	0.01
DD018870		0.22	13.9	0.25	0.36	<0.05	0.02	0.09	0.005	0.03	1.3	0.5	0.18	28	6.52	0.01
DD019661		5.87	47.7	3.33	4.47	0.06	0.08	0.05	0.115	0.28	8.7	15.3	4.80	967	4.91	0.02
DD019662		6.31	40.3	2.76	4.84	0.05	0.11	0.04	0.079	0.34	8.5	18.6	4.92	839	3.54	0.02
DD019663		6.62	37.3	2.76	5.64	0.06	0.05	0.04	0.082	0.28	8.5	19.5	5.32	783	2.57	0.04
DD019664		3.51	29.9	2.56	4.74	<0.05	0.02	0.05	0.038	0.07	9.6	17.4	0.87	921	1.39	0.01
DD019665		2.23	13.7	2.79	7.51	0.05	0.02	0.03	0.041	0.04	23.3	20.6	0.47	264	1.95	<0.01
DD019666		3.67	32.8	2.92	5.64	0.05	0.05	0.05	0.033	0.11	12.6	19.1	1.78	513	1.45	0.01
DD019667		3.09	29.7	4.39	7.27	0.06	0.04	0.06	0.035	0.14	13.8	22.8	1.66	764	1.42	0.03
DD019668		1.03	13.8	1.83	4.34	<0.05	<0.02	0.03	0.017	0.04	10.3	4.8	0.20	109	1.95	0.01
DD019669		2.46	40.9	3.49	5.06	0.06	0.06	0.08	0.039	0.10	13.1	16.1	2.03	723	2.62	0.03
DD019670		2.05	15.3	4.44	9.45	<0.05	0.03	0.02	0.041	0.04	12.0	28.7	1.27	391	2.59	0.02
DD019671		1.95	22.8	4.82	8.15	<0.05	0.02	0.04	0.044	0.06	12.6	25.8	1.62	606	1.25	0.02
DD019672		4.97	24.3	4.29	7.10	0.05	0.02	0.05	0.036	0.12	8.9	23.2	1.62	996	0.67	0.04

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD018843		0.37	30.6	990	7.5	3.8	<0.001	0.14	1.66	0.8	3.6	0.5	67.2	<0.01	0.02	0.4
DD018844		0.92	46.8	980	17.8	9.2	0.007	0.09	1.63	3.1	4.7	0.8	36.2	<0.01	0.06	2.2
DD018845		0.42	64.0	960	5.4	7.5	0.035	0.19	1.13	1.1	7.0	0.3	96.1	<0.01	<0.01	0.4
DD018846		0.35	15.9	920	4.9	5.0	0.007	0.15	0.78	0.5	2.7	0.2	70.1	<0.01	0.03	0.3
DD018847		0.38	29.1	910	5.0	3.3	0.006	0.16	1.26	0.7	3.5	0.4	82.4	<0.01	0.01	0.3
DD018848		0.17	91.1	820	1.5	1.4	0.005	0.18	2.21	0.1	7.9	0.2	117.5	<0.01	0.02	<0.2
DD018849		1.93	83.0	1730	20.0	15.4	0.001	0.19	11.95	3.5	8.2	0.9	147.0	<0.01	0.09	3.0
DD018850		0.86	45.8	1390	16.4	17.7	0.001	0.16	8.14	1.5	6.4	0.7	28.8	<0.01	0.07	0.7
DD018851		0.55	16.4	730	5.0	5.2	0.001	0.14	0.81	1.4	1.6	0.3	44.4	<0.01	0.05	0.6
DD018852		0.52	68.5	870	6.6	5.4	0.011	0.15	1.41	1.3	4.5	0.3	79.6	<0.01	0.03	0.5
DD018853		0.42	152.5	1710	12.0	16.9	0.002	0.06	4.39	2.3	6.7	0.8	42.7	<0.01	0.11	1.8
DD018854		0.48	47.2	520	5.8	8.4	0.003	0.12	1.14	1.3	2.6	0.3	50.8	<0.01	0.05	0.9
DD018855		0.85	51.0	1290	14.0	10.6	0.015	0.06	1.32	2.2	3.1	0.5	46.6	<0.01	0.07	1.8
DD018856		0.46	45.3	690	9.8	5.0	0.001	0.07	1.50	1.0	3.2	0.3	51.0	<0.01	0.06	0.5
DD018857		0.68	26.8	1080	10.7	5.7	0.001	0.07	1.32	1.7	1.3	0.4	41.5	<0.01	0.04	1.3
DD018858		1.01	50.6	930	16.2	13.8	<0.001	<0.01	2.11	3.1	3.0	0.9	17.4	<0.01	0.09	4.2
DD018859		1.01	33.5	680	14.1	10.6	0.001	<0.01	1.06	2.3	1.9	1.0	9.7	<0.01	0.05	2.8
DD018860		0.91	76.0	800	20.4	13.0	0.001	<0.01	2.05	5.2	2.5	0.9	14.1	<0.01	0.07	7.0
DD018861		0.76	47.1	870	21.6	12.0	<0.001	<0.01	2.01	1.6	3.3	1.1	12.9	<0.01	0.10	0.7
DD018862		0.86	17.7	650	18.1	13.2	0.001	<0.01	1.41	1.4	2.2	1.3	10.8	<0.01	0.12	1.6
DD018863		0.63	40.0	1020	14.3	7.3	0.002	0.09	1.73	1.9	6.9	0.6	53.5	<0.01	0.07	1.1
DD018864		0.81	24.1	560	14.2	12.1	0.001	<0.01	1.56	1.7	2.2	1.0	15.3	<0.01	0.08	1.6
DD018865		0.68	17.5	690	12.3	7.7	0.003	0.03	0.66	2.0	4.8	0.7	30.8	<0.01	0.05	1.7
DD018866		0.79	31.9	940	16.0	9.9	0.006	0.05	1.72	2.7	10.5	0.7	42.1	<0.01	0.07	2.3
DD018867		0.91	17.6	340	15.7	12.3	<0.001	<0.01	1.87	1.6	2.1	1.0	7.7	<0.01	0.07	2.1
DD018868		0.77	26.6	650	14.1	8.4	0.002	0.05	0.99	2.2	3.7	0.7	28.2	<0.01	0.06	1.7
DD018869		0.84	35.1	1150	18.2	11.5	0.005	0.04	1.34	2.7	2.7	0.8	31.5	<0.01	0.08	1.7
DD018870		0.10	15.7	650	1.9	2.5	<0.001	0.13	0.53	0.4	1.3	0.2	38.4	<0.01	0.02	0.2
DD019661		0.85	48.1	630	71.9	37.4	0.001	0.06	2.25	3.5	1.1	10.3	71.6	<0.01	0.08	2.9
DD019662		0.80	43.5	590	47.9	41.1	0.001	0.05	1.68	3.8	1.2	4.1	89.1	<0.01	0.08	2.9
DD019663		1.40	50.0	580	46.6	38.3	0.001	0.02	1.51	4.1	0.7	3.7	78.2	<0.01	0.06	2.3
DD019664		1.71	33.4	900	20.7	18.2	<0.001	0.05	0.90	2.7	0.7	0.8	54.4	<0.01	0.03	1.1
DD019665		2.12	16.0	350	22.6	15.6	0.001	<0.01	0.62	2.8	0.7	1.1	27.8	<0.01	0.06	1.8
DD019666		2.25	35.8	1210	24.0	20.7	0.001	0.01	1.05	3.8	0.6	0.9	57.2	<0.01	0.03	2.5
DD019667		3.17	33.8	1800	21.7	17.6	0.001	0.05	0.99	4.2	0.8	0.9	43.4	<0.01	0.05	2.4
DD019668		0.74	10.9	500	12.2	11.2	<0.001	0.02	0.56	1.1	0.3	0.7	17.8	<0.01	0.04	0.3
DD019669		1.64	44.1	1570	22.5	14.3	<0.001	<0.01	1.09	4.5	0.6	1.0	31.7	<0.01	0.06	3.7
DD019670		2.89	31.6	850	22.2	9.6	<0.001	<0.01	0.73	4.6	0.6	1.2	13.5	<0.01	0.07	3.1
DD019671		2.13	35.3	910	36.0	9.1	0.001	0.03	0.70	5.4	0.5	1.0	24.8	<0.01	0.06	2.2
DD019672		4.13	40.3	1270	24.5	19.5	<0.001	0.08	0.52	4.9	0.3	0.9	46.0	<0.01	0.05	1.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018843		0.010	0.16	9.94	31	0.26	3.37	312	1.6
DD018844		0.022	0.22	4.69	45	0.36	9.53	290	2.2
DD018845		0.012	0.22	10.80	17	0.09	5.12	481	1.4
DD018846		0.008	0.05	1.78	10	<0.05	2.86	86	1.1
DD018847		0.010	0.09	5.53	11	0.08	4.31	111	1.5
DD018848		0.005	0.21	26.3	6	<0.05	2.25	320	1.1
DD018849		0.048	0.51	8.63	102	0.33	9.63	438	1.1
DD018850		0.025	0.81	5.20	69	0.26	6.58	333	<0.5
DD018851		0.014	0.08	0.77	18	4.37	2.90	71	1.2
DD018852		0.014	0.32	11.25	20	0.08	11.40	482	1.7
DD018853		0.016	1.11	3.51	251	0.57	19.35	1280	4.4
DD018854		0.018	0.34	2.05	79	0.19	5.22	289	1.5
DD018855		0.024	0.29	2.46	50	0.14	6.57	568	1.6
DD018856		0.011	0.16	3.28	48	0.25	11.65	178	1.2
DD018857		0.014	0.11	1.07	25	0.11	5.25	108	2.0
DD018858		0.025	0.33	1.18	78	0.37	5.51	379	1.1
DD018859		0.021	0.20	0.88	75	0.37	2.87	298	0.5
DD018860		0.033	0.42	2.04	92	0.55	7.54	453	4.0
DD018861		0.020	0.29	0.98	128	0.60	3.56	295	<0.5
DD018862		0.028	0.31	0.87	113	0.59	2.92	129	<0.5
DD018863		0.015	0.15	2.11	62	0.66	6.99	450	2.5
DD018864		0.028	0.39	0.81	114	0.78	2.90	158	<0.5
DD018865		0.017	0.22	0.79	41	0.29	3.27	358	0.8
DD018866		0.017	0.33	2.12	82	0.55	5.89	1040	2.1
DD018867		0.022	0.25	0.65	88	0.65	2.56	126	<0.5
DD018868		0.017	0.21	1.43	65	0.29	5.26	478	1.1
DD018869		0.020	0.26	1.72	83	0.49	6.74	296	1.0
DD018870		<0.005	0.04	0.21	5	0.07	1.30	123	0.6
DD019661		0.069	0.49	0.92	53	11.70	7.28	485	4.5
DD019662		0.075	0.53	0.78	43	10.60	7.32	351	4.4
DD019663		0.094	0.45	0.56	50	9.97	7.32	296	2.3
DD019664		0.049	0.31	1.30	42	1.91	8.14	137	1.0
DD019665		0.031	0.18	0.52	62	0.99	8.78	90	<0.5
DD019666		0.052	0.32	0.43	41	1.73	8.69	130	1.5
DD019667		0.065	0.24	0.46	57	1.39	7.88	183	1.4
DD019668		0.029	0.11	1.65	40	0.48	4.00	54	<0.5
DD019669		0.072	0.34	0.67	61	2.58	10.60	184	2.2
DD019670		0.065	0.29	0.59	101	0.87	3.94	148	1.3
DD019671		0.080	0.20	0.89	90	0.68	9.25	255	1.0
DD019672		0.104	0.29	0.71	79	0.89	7.84	237	0.9



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD019673		0.28	0.005	0.45	1.50	21.6	<0.2	<10	1160	0.52	3.25	3.64	1.83	18.90	13.7	27
DD019674		0.40	0.011	0.43	1.65	28.0	<0.2	<10	420	0.47	14.05	4.15	1.03	25.3	15.6	34
DD019675		0.38	0.009	0.25	1.40	30.9	<0.2	<10	460	0.39	3.55	7.73	0.91	18.85	13.0	29
DD019676		0.23	0.006	0.52	1.69	29.1	<0.2	<10	580	0.54	4.90	2.30	2.42	20.4	14.0	36
DD019677		0.42	0.384	0.45	1.12	429	0.8	<10	340	0.30	19.30	13.40	0.90	18.25	15.2	44
DD019678		0.17	0.006	0.59	1.39	30.3	<0.2	<10	360	0.45	5.16	3.37	5.28	19.50	11.7	30
DD019679		0.24	0.022	0.25	1.31	43.1	<0.2	<10	520	0.47	2.07	3.24	1.62	18.00	10.0	26
DD019680		0.27	0.004	0.31	1.31	25.7	<0.2	<10	370	0.50	1.50	4.94	0.78	21.2	9.8	25
DD019681		0.10	0.008	0.30	1.29	24.5	<0.2	<10	590	0.37	1.73	2.09	0.59	17.40	10.0	27
DD019682		0.18	0.011	0.28	1.17	23.0	<0.2	<10	980	0.38	1.27	2.48	0.97	19.00	10.5	26
DD019683		0.22	0.020	0.30	1.35	25.6	<0.2	<10	900	0.55	1.39	1.78	1.12	20.9	11.6	30
DD019684		0.20	0.005	0.14	0.48	6.9	<0.2	<10	740	0.18	0.32	3.58	1.09	4.90	3.9	11
DD019685		0.21	0.010	0.26	1.03	17.9	<0.2	<10	630	0.33	1.39	2.64	2.55	14.10	8.2	24
DD019686		0.15	0.006	0.20	0.84	17.4	<0.2	<10	510	0.28	1.42	3.09	1.68	11.20	7.1	20
DD019687		0.11	0.009	0.31	1.32	28.6	<0.2	<10	500	0.46	1.93	1.90	1.41	21.4	11.8	30
DD019688		0.19	0.007	0.09	1.43	30.4	<0.2	<10	510	0.46	1.34	0.89	1.11	20.9	12.6	33
DD019689		0.23	0.007	0.28	1.50	36.3	<0.2	<10	630	0.51	1.53	1.53	1.07	23.0	13.4	31
DD019690		0.15	0.007	0.24	1.48	34.2	<0.2	<10	580	0.55	1.59	1.38	1.35	22.1	13.8	31
DD019691		0.16	0.005	0.28	1.25	22.1	<0.2	<10	450	0.40	2.06	2.08	0.65	18.80	10.5	26
DD019692		0.17	0.004	0.35	1.16	16.7	<0.2	<10	730	0.45	1.96	4.65	1.26	14.30	8.5	24
DD019693		0.20	0.006	0.31	1.25	15.3	<0.2	<10	400	0.47	2.27	4.35	1.51	15.20	9.6	26
DD019694		0.23	0.006	0.26	1.07	21.0	<0.2	<10	630	0.44	1.96	3.67	1.05	14.15	9.2	23
DD019695		0.29	0.004	0.26	1.83	29.4	<0.2	<10	1030	0.69	2.50	1.46	0.61	22.5	13.8	38
DD019696		0.17	0.014	0.20	0.95	18.6	<0.2	<10	600	0.33	1.23	2.79	1.36	18.15	12.2	20
DD019697		0.24	0.010	0.20	1.60	31.1	<0.2	<10	1010	0.57	2.04	1.31	1.00	23.6	12.1	33
DD019698		0.22	0.041	0.18	1.27	18.2	<0.2	<10	990	0.41	1.13	3.26	0.53	13.35	9.4	28
DD019699		0.29	0.006	0.34	1.41	29.4	<0.2	<10	1350	0.40	1.56	3.12	1.13	18.15	11.4	32
DD019700		0.14	0.008	0.17	0.51	9.0	<0.2	<10	640	0.20	0.41	4.65	3.10	5.01	3.0	11
DD020001		0.09	0.004	0.66	1.40	25.1	<0.2	<10	730	0.32	0.76	1.77	3.60	15.85	18.0	57
DD020002		0.27	0.005	0.52	1.23	23.4	<0.2	<10	670	0.32	0.67	1.59	2.39	17.05	14.9	46
DD020003		0.17	0.005	0.58	1.43	22.9	<0.2	<10	1130	0.37	0.55	2.19	2.33	17.55	17.7	55
DD020004		0.21	0.003	0.55	1.62	21.6	<0.2	<10	1130	0.43	0.70	2.12	2.21	16.80	18.9	62
DD020005		0.27	0.004	0.52	1.35	21.6	<0.2	<10	620	0.30	0.47	1.89	2.90	17.50	18.4	61

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD019673		1.67	32.9	3.04	3.89	<0.05	0.04	0.10	0.039	0.05	9.5	12.0	1.56	647	0.93	0.02
DD019674		1.56	24.0	3.48	4.58	0.05	0.03	0.06	0.046	0.05	12.4	15.6	2.93	648	1.18	0.02
DD019675		2.28	25.5	2.83	3.59	0.06	0.06	0.04	0.030	0.11	8.7	12.3	3.91	545	1.31	0.03
DD019676		1.71	26.0	3.44	4.43	<0.05	0.02	0.09	0.055	0.06	9.9	15.8	1.25	640	1.46	0.02
DD019677		1.38	19.4	3.83	2.89	0.05	0.03	0.03	0.034	0.05	8.9	9.6	4.30	424	1.62	0.02
DD019678		2.82	22.9	2.93	3.55	<0.05	0.03	0.07	0.051	0.05	9.3	13.4	1.88	450	1.33	0.02
DD019679		0.96	20.0	2.58	3.37	<0.05	0.03	0.07	0.031	0.05	8.1	12.1	1.53	561	1.01	0.02
DD019680		0.94	30.0	2.84	3.17	<0.05	0.04	0.07	0.030	0.07	10.0	13.0	3.26	548	1.55	0.02
DD019681		1.43	24.6	2.53	3.74	<0.05	0.04	0.08	0.034	0.08	8.9	12.8	0.78	461	1.67	0.02
DD019682		0.94	24.9	2.45	3.06	<0.05	0.04	0.06	0.030	0.07	9.2	11.4	1.02	440	1.70	0.02
DD019683		1.23	25.3	2.74	3.69	<0.05	0.07	0.07	0.033	0.08	10.0	13.5	0.74	755	1.72	0.02
DD019684		0.57	16.9	0.94	1.20	<0.05	0.04	0.09	0.013	0.06	2.6	3.9	0.65	235	1.86	0.02
DD019685		1.15	20.1	2.05	2.91	<0.05	0.04	0.08	0.031	0.06	7.1	9.5	0.83	375	1.28	0.02
DD019686		0.98	23.0	1.79	2.29	<0.05	0.04	0.08	0.022	0.06	5.6	8.1	0.75	321	1.64	0.02
DD019687		1.10	28.6	2.82	3.57	<0.05	0.05	0.08	0.037	0.09	10.6	12.8	0.90	526	2.42	0.02
DD019688		1.03	24.7	3.26	3.97	<0.05	0.04	0.06	0.034	0.16	10.4	14.2	0.77	471	2.81	0.02
DD019689		1.01	29.6	3.33	3.95	0.05	0.04	0.06	0.032	0.08	11.1	14.2	0.86	459	2.63	0.02
DD019690		1.01	30.0	3.12	4.07	0.05	0.04	0.06	0.034	0.07	10.8	14.4	0.85	563	2.64	0.02
DD019691		1.17	19.7	2.56	3.42	0.05	0.04	0.05	0.030	0.08	9.1	11.7	0.92	488	1.63	0.02
DD019692		1.35	24.9	2.06	3.01	<0.05	0.04	0.05	0.034	0.10	7.4	10.4	2.03	392	0.72	0.02
DD019693		1.74	21.7	2.34	3.16	<0.05	0.04	0.07	0.031	0.11	7.6	11.5	1.96	322	1.08	0.02
DD019694		1.32	32.5	2.32	2.90	<0.05	0.05	0.06	0.033	0.08	7.4	9.7	1.17	391	1.95	0.02
DD019695		1.74	35.7	3.35	4.87	<0.05	0.04	0.06	0.044	0.11	11.2	15.4	0.92	576	1.96	0.03
DD019696		1.12	26.2	2.10	2.56	<0.05	0.03	0.06	0.020	0.06	8.4	7.9	0.68	464	2.14	0.02
DD019697		1.20	24.3	3.06	4.51	0.05	0.05	0.07	0.042	0.20	11.0	15.1	0.82	518	2.17	0.02
DD019698		0.80	22.3	2.18	3.24	<0.05	0.02	0.06	0.021	0.05	6.9	10.8	0.86	471	0.64	0.03
DD019699		1.45	36.5	2.78	3.72	<0.05	0.03	0.07	0.028	0.09	8.7	11.6	1.66	452	2.75	0.03
DD019700		1.05	18.3	0.94	1.46	<0.05	0.03	0.06	0.014	0.08	2.6	4.4	0.58	138	1.41	0.02
DD020001		0.88	57.9	3.42	3.93	0.07	0.03	0.10	0.037	0.07	8.1	12.8	1.19	514	4.71	0.01
DD020002		0.77	45.1	3.14	3.38	0.06	0.03	0.10	0.027	0.07	8.5	12.0	1.01	422	5.39	0.01
DD020003		0.94	50.6	3.35	4.13	0.06	0.04	0.08	0.038	0.06	8.4	13.2	1.51	448	5.63	0.01
DD020004		1.19	52.0	3.49	4.84	0.06	0.04	0.08	0.033	0.08	8.6	14.9	1.42	528	5.74	0.02
DD020005		0.60	43.8	3.36	3.89	0.06	0.03	0.08	0.027	0.05	8.7	11.7	1.43	593	6.62	0.01



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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12132949**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD019673		1.44	34.1	1370	30.8	9.7	<0.001	0.11	1.06	2.4	0.6	0.7	35.6	<0.01	0.03	0.9
DD019674		1.63	36.3	1310	77.0	8.6	0.001	0.04	0.93	3.5	0.5	0.8	33.7	<0.01	0.05	1.6
DD019675		1.48	30.0	1190	43.1	11.9	<0.001	0.03	0.88	3.6	<0.2	0.5	69.9	<0.01	0.02	2.8
DD019676		1.77	35.0	950	71.8	12.8	<0.001	0.08	1.00	3.2	0.6	0.9	28.4	<0.01	0.06	1.1
DD019677		1.01	45.5	780	48.4	6.6	0.004	0.07	1.17	3.1	0.4	0.6	118.0	<0.01	0.03	1.7
DD019678		1.32	29.5	1020	70.6	13.0	0.003	0.10	0.73	2.4	1.0	0.8	42.5	<0.01	0.05	1.0
DD019679		0.93	23.9	1000	25.8	8.2	<0.001	0.09	0.84	2.0	0.6	0.5	26.9	<0.01	0.03	0.7
DD019680		0.93	29.3	970	24.5	8.5	<0.001	0.03	1.12	3.4	0.4	0.5	28.9	<0.01	0.02	2.1
DD019681		1.25	28.8	790	20.9	10.2	<0.001	0.07	0.89	2.5	0.9	0.7	27.2	0.01	0.05	1.0
DD019682		1.09	34.1	990	17.2	8.3	0.001	0.09	1.22	2.2	1.1	0.6	37.2	<0.01	0.06	1.1
DD019683		1.26	38.3	780	19.8	9.3	0.001	0.10	1.28	2.6	1.2	0.7	31.6	<0.01	0.02	1.3
DD019684		0.42	17.3	910	6.7	6.8	0.001	0.18	0.99	0.7	0.2	0.3	46.2	<0.01	0.03	0.4
DD019685		1.09	26.1	860	16.5	9.2	0.005	0.15	0.77	1.8	1.3	0.9	33.7	<0.01	0.03	0.7
DD019686		0.89	25.0	740	14.8	7.8	0.003	0.14	0.94	1.5	0.4	0.7	37.8	<0.01	0.05	0.7
DD019687		1.19	37.8	1180	20.6	8.7	0.001	0.08	1.36	2.7	0.9	0.7	35.6	<0.01	0.06	1.6
DD019688		1.13	34.2	1160	17.9	29.0	<0.001	0.04	1.16	2.9	0.3	0.7	23.7	<0.01	0.06	1.6
DD019689		1.21	38.8	1190	21.2	9.8	0.001	0.05	1.27	3.0	0.6	0.7	32.6	<0.01	0.04	1.4
DD019690		1.29	38.5	1010	20.7	8.6	0.001	0.05	1.27	3.1	0.7	0.6	30.3	<0.01	0.06	1.7
DD019691		1.22	27.6	870	22.5	8.9	<0.001	0.06	0.99	2.3	0.4	0.7	30.1	<0.01	0.03	1.2
DD019692		1.23	29.4	900	20.5	11.8	0.001	0.08	0.91	2.2	0.6	0.9	41.5	<0.01	0.06	1.1
DD019693		1.22	35.1	940	22.2	12.3	0.003	0.13	0.83	2.3	1.0	0.8	37.5	<0.01	0.05	1.3
DD019694		1.18	35.1	880	21.6	10.1	<0.001	0.10	1.35	1.9	0.7	0.7	38.6	<0.01	0.04	1.0
DD019695		1.64	46.8	900	31.5	13.1	<0.001	0.05	1.42	3.5	0.7	1.3	29.8	<0.01	0.06	1.5
DD019696		0.99	27.6	930	16.1	7.9	0.001	0.11	0.87	1.6	0.5	0.6	38.6	<0.01	0.03	0.6
DD019697		1.53	35.9	990	29.2	21.4	<0.001	0.05	1.22	3.1	0.7	1.1	27.8	<0.01	0.05	1.7
DD019698		1.11	23.4	990	17.1	5.8	0.001	0.11	0.68	1.8	0.8	0.6	38.2	<0.01	0.03	0.5
DD019699		1.32	43.5	1040	20.3	10.3	<0.001	0.06	1.48	2.8	0.8	0.7	41.8	<0.01	0.05	1.2
DD019700		1.15	15.2	820	7.5	9.2	0.006	0.16	1.08	0.6	1.4	0.5	83.2	<0.01	0.02	0.2
DD020001		1.31	107.5	970	17.8	7.4	0.003	0.09	2.70	3.4	2.6	7.2	47.1	<0.01	0.08	1.2
DD020002		1.11	81.3	1050	18.1	7.3	0.004	0.08	2.17	3.1	2.2	1.3	42.3	<0.01	0.05	1.4
DD020003		1.37	84.3	1060	15.7	7.1	0.003	0.08	2.48	3.8	2.3	1.9	49.7	<0.01	0.05	1.2
DD020004		1.31	91.9	960	17.6	8.6	0.005	0.10	2.55	4.4	2.6	1.2	56.7	<0.01	0.05	1.2
DD020005		1.38	96.8	960	14.5	5.2	0.004	0.06	3.08	3.7	2.3	0.7	47.9	<0.01	0.05	1.3





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**CERTIFICATE OF ANALYSIS WH12132949**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019673		0.035	0.14	2.69	44	0.84	11.30	341	1.4
DD019674		0.052	0.14	0.91	53	6.40	9.76	311	1.0
DD019675		0.071	0.19	0.65	43	4.17	7.05	217	2.4
DD019676		0.048	0.17	0.85	54	1.34	8.79	567	0.9
DD019677		0.060	0.20	1.93	33	20.7	7.70	444	0.8
DD019678		0.041	0.17	2.98	41	0.89	8.31	1940	0.9
DD019679		0.027	0.12	1.06	42	1.66	6.39	193	0.8
DD019680		0.031	0.12	0.55	42	0.75	8.82	177	1.5
DD019681		0.029	0.19	1.00	50	0.97	6.03	176	1.4
DD019682		0.030	0.16	1.41	46	1.02	6.37	174	1.2
DD019683		0.032	0.22	2.27	52	1.45	7.76	191	1.4
DD019684		0.011	0.10	2.87	20	0.25	2.38	109	1.4
DD019685		0.028	0.20	2.96	40	0.58	5.89	381	1.2
DD019686		0.024	0.15	2.69	34	0.66	4.54	212	1.3
DD019687		0.033	0.16	1.20	49	1.34	6.89	192	1.5
DD019688		0.037	0.17	0.71	57	0.63	5.99	220	1.2
DD019689		0.033	0.16	0.97	55	2.68	8.46	197	1.3
DD019690		0.035	0.15	0.86	56	0.50	8.21	196	1.4
DD019691		0.032	0.15	0.65	46	1.34	6.69	164	1.1
DD019692		0.030	0.17	0.65	42	1.24	6.12	226	1.6
DD019693		0.030	0.18	1.05	39	1.62	6.65	586	1.5
DD019694		0.025	0.23	1.75	36	1.38	7.22	201	1.7
DD019695		0.044	0.22	0.73	71	1.71	9.23	212	1.3
DD019696		0.025	0.15	1.97	41	1.23	6.58	173	1.1
DD019697		0.043	0.23	0.93	69	3.29	7.10	223	1.2
DD019698		0.029	0.10	1.63	47	0.48	6.04	149	0.9
DD019699		0.043	0.23	1.01	62	1.01	7.61	176	1.2
DD019700		0.018	0.12	2.87	20	1.93	2.23	138	0.9
DD020001		0.052	0.24	4.08	71	0.38	8.06	509	1.3
DD020002		0.042	0.22	3.27	68	0.45	8.16	372	1.4
DD020003		0.054	0.22	2.32	65	0.35	7.96	304	1.2
DD020004		0.057	0.26	4.15	78	0.34	8.14	328	1.3
DD020005		0.052	0.19	4.18	63	0.29	8.68	310	1.1



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**CERTIFICATE OF ANALYSIS WH12132949**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12133730**

Project: ATAC Regional  
 P.O. No.: J  
 This report is for 239 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020751		0.22	0.009	0.29	1.65	42.8	<0.2	<10	280	0.76	1.31	2.16	0.77	27.3	12.9	32
DD020752		0.35	0.041	0.23	2.34	71.9	<0.2	<10	380	0.83	3.10	2.65	1.21	22.3	14.8	48
DD020753		0.32	0.018	0.27	1.65	49.2	<0.2	<10	300	0.54	2.46	2.85	1.10	20.9	10.9	35
DD020754		0.38	0.009	0.32	1.38	62.4	<0.2	<10	240	0.43	2.99	5.14	0.97	19.50	11.0	31
DD020755		0.36	0.005	0.24	1.16	30.1	<0.2	<10	210	0.35	2.44	6.22	0.57	19.30	10.8	24
DD020756		0.25	0.056	0.26	1.15	172.5	<0.2	<10	340	0.34	3.83	8.23	1.06	18.35	12.6	37
DD020757		0.42	0.008	0.37	1.70	46.4	<0.2	<10	330	0.46	3.23	4.82	1.04	23.0	13.8	44
DD020758		0.26	0.006	0.23	1.70	54.6	<0.2	<10	310	0.52	1.66	1.60	0.50	23.9	10.7	35
DD020759		0.29	0.008	0.12	2.24	57.8	<0.2	<10	260	0.84	2.66	0.20	1.32	30.1	13.6	45
DD020760		0.18	0.009	0.26	1.05	54.4	<0.2	<10	490	0.39	2.14	2.29	0.59	18.35	8.1	24
DD020761		0.23	0.049	0.31	1.63	94.9	<0.2	<10	390	0.62	5.34	3.22	0.80	23.8	12.4	36
DD020762		0.29	0.041	0.22	1.21	94.3	<0.2	<10	320	0.36	2.71	8.57	0.98	18.70	12.5	30
DD020763		0.24	0.012	0.24	1.49	30.4	<0.2	<10	490	0.64	1.76	1.72	0.78	24.5	14.0	30
DD020764		0.44	0.010	0.31	1.35	32.3	<0.2	<10	450	0.43	1.36	1.73	0.98	28.2	14.7	28
DD020765		0.35	0.005	0.23	2.08	31.5	<0.2	<10	370	0.37	0.79	3.02	1.40	71.5	24.1	33
DD020766		0.37	0.033	0.28	1.28	33.7	<0.2	<10	810	0.45	1.56	2.92	1.45	21.0	12.7	25
DD020767		0.39	0.008	0.34	1.35	29.4	<0.2	<10	530	0.49	1.87	2.32	1.46	22.4	12.7	31
DD020768		0.33	0.009	0.26	1.07	26.5	<0.2	<10	530	0.36	2.40	2.24	0.74	18.50	9.3	24
DD020769		0.26	0.007	0.32	1.28	26.8	<0.2	<10	1150	0.45	2.75	2.73	1.16	19.90	10.9	31
DD020770		0.19	0.006	0.36	1.36	26.2	<0.2	<10	1470	0.54	1.25	1.94	1.72	17.75	10.3	27
DD020771		0.28	0.010	0.35	1.24	29.4	<0.2	<10	1220	0.47	1.39	2.42	1.20	21.9	11.3	28
DD020772		0.26	0.013	0.27	1.07	22.2	<0.2	<10	700	0.38	1.24	1.83	0.88	18.60	9.3	24
DD020773		0.25	0.006	0.47	1.47	27.1	<0.2	<10	490	0.51	2.32	1.62	1.36	21.0	11.0	30
DD020774		0.25	0.036	0.39	1.48	27.1	<0.2	<10	720	0.53	2.18	2.46	1.28	19.90	10.7	29
DD020775		0.17	0.009	0.20	1.02	18.6	<0.2	<10	790	0.41	0.70	3.34	0.62	12.70	6.5	19
DD020776		0.22	0.005	0.33	1.41	23.8	<0.2	<10	490	0.54	2.77	2.98	1.29	18.35	10.5	28
DD020777		0.26	0.006	0.30	1.28	23.7	<0.2	<10	770	0.48	1.96	3.75	1.10	18.55	10.3	27
DD020778		0.20	0.006	0.25	1.34	22.3	<0.2	<10	580	0.43	2.62	2.12	1.19	16.30	10.3	28
DD020779		0.17	0.006	0.35	1.12	26.4	<0.2	<10	370	0.44	2.58	4.64	0.99	17.15	9.1	24
DD020780		0.32	0.004	0.32	1.11	21.8	<0.2	<10	400	0.44	2.30	4.51	1.16	16.60	8.6	24
DD019861		0.14	0.007	0.33	1.40	33.4	<0.2	<10	360	0.60	2.08	1.84	2.92	17.45	8.7	29
DD019862		0.20	0.009	0.44	1.41	28.6	<0.2	<10	460	0.68	1.77	2.03	1.75	20.8	9.4	27
DD019863		0.26	0.011	0.37	1.41	27.3	<0.2	<10	290	0.58	2.73	3.49	1.20	19.35	10.3	36
DD019864		0.26	0.014	0.34	1.49	35.7	<0.2	<10	310	0.63	3.29	1.38	1.20	20.1	9.0	29
DD019865		0.19	0.013	0.41	1.40	39.3	<0.2	<10	280	0.51	5.13	3.87	1.23	20.1	10.3	33
DD019866		0.28	0.009	0.44	1.67	35.0	<0.2	<10	290	0.58	4.03	3.34	1.31	19.90	12.3	51
DD019867		0.23	0.009	0.40	1.22	29.4	<0.2	<10	570	0.54	2.29	4.08	1.89	19.35	8.0	25
DD019868		0.20	0.010	0.67	1.54	46.5	<0.2	<10	270	0.61	8.90	5.04	2.02	17.65	10.8	34
DD019869		0.24	0.008	0.43	1.65	35.9	<0.2	<10	340	0.61	3.74	4.56	1.17	18.10	11.6	42
DD019870		0.35	0.016	0.68	1.64	54.3	<0.2	<10	320	0.72	5.40	5.12	1.74	19.45	10.2	33





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**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020751		1.51	22.0	3.04	5.34	0.06	0.03	0.06	0.046	0.05	14.1	18.1	1.29	515	1.83	0.02
DD020752		2.15	15.8	3.79	7.11	0.05	0.02	0.03	0.054	0.04	14.5	15.7	1.98	975	1.11	0.03
DD020753		1.79	21.9	3.33	4.61	<0.05	0.03	0.07	0.042	0.05	11.9	13.5	2.11	633	2.25	0.02
DD020754		2.10	23.3	2.70	4.22	0.05	0.02	0.07	0.040	0.07	10.2	11.5	2.72	589	1.82	0.03
DD020755		1.75	25.1	2.51	3.64	0.05	0.03	0.05	0.029	0.05	9.7	10.4	2.81	465	1.65	0.02
DD020756		2.09	24.5	2.76	3.65	<0.05	0.02	0.05	0.039	0.05	9.3	10.4	3.83	552	1.28	0.02
DD020757		2.88	29.4	3.09	5.37	0.06	0.04	0.06	0.047	0.09	11.9	17.1	3.75	376	1.95	0.03
DD020758		1.51	15.1	3.29	5.05	<0.05	0.03	0.05	0.057	0.05	12.6	15.3	1.14	557	2.04	0.02
DD020759		1.64	20.2	3.62	6.11	0.05	0.04	0.05	0.053	0.03	15.3	19.1	0.66	609	2.43	0.01
DD020760		0.86	22.3	2.49	3.21	0.05	0.03	0.06	0.031	0.03	9.9	9.8	0.94	290	1.62	0.02
DD020761		1.91	28.6	3.07	5.22	0.05	0.02	0.07	0.039	0.07	12.4	18.0	2.08	646	1.62	0.02
DD020762		1.84	18.5	2.65	3.76	0.06	0.02	0.03	0.033	0.09	9.7	12.1	4.19	536	1.78	0.02
DD020763		1.23	31.5	3.18	4.52	0.06	0.04	0.08	0.036	0.10	12.9	14.1	0.99	577	2.94	0.03
DD020764		1.07	39.6	3.13	4.01	0.05	0.04	0.07	0.035	0.08	14.2	12.0	0.92	535	2.77	0.02
DD020765		1.12	48.7	4.72	6.27	0.11	0.04	0.06	0.038	0.06	37.3	21.7	1.30	834	5.31	0.01
DD020766		1.26	39.6	2.87	3.83	<0.05	0.04	0.08	0.038	0.09	11.4	13.1	1.41	550	5.34	0.02
DD020767		1.72	34.6	2.93	4.16	0.05	0.04	0.05	0.047	0.10	11.9	14.3	1.44	624	2.65	0.02
DD020768		0.96	25.2	2.42	3.43	<0.05	0.03	0.05	0.035	0.06	9.6	12.6	1.16	357	1.83	0.01
DD020769		1.50	26.8	2.77	3.82	0.05	0.04	0.07	0.031	0.09	10.3	12.1	1.80	462	4.18	0.03
DD020770		1.36	36.1	2.63	3.91	<0.05	0.05	0.08	0.038	0.12	9.9	12.7	0.73	426	4.97	0.02
DD020771		1.24	40.4	2.73	3.76	0.05	0.04	0.07	0.048	0.10	12.2	12.6	1.37	432	3.22	0.02
DD020772		0.91	22.2	2.27	3.28	<0.05	0.02	0.10	0.029	0.06	9.4	11.5	0.72	502	1.21	0.02
DD020773		1.26	28.1	2.85	4.20	<0.05	0.04	0.05	0.043	0.12	11.2	15.0	1.03	502	2.52	0.02
DD020774		1.77	29.7	2.83	4.31	<0.05	0.04	0.05	0.040	0.14	10.7	14.1	1.42	468	2.88	0.02
DD020775		0.70	18.1	1.81	2.96	<0.05	0.02	0.07	0.022	0.04	6.9	8.9	0.79	368	1.30	0.02
DD020776		1.98	29.2	2.57	4.13	<0.05	0.04	0.05	0.040	0.13	9.7	14.6	1.63	518	1.97	0.02
DD020777		1.78	30.3	2.50	3.80	<0.05	0.03	0.06	0.036	0.11	9.4	12.8	2.00	468	2.28	0.02
DD020778		1.72	23.4	2.59	4.01	<0.05	0.03	0.06	0.037	0.09	8.1	13.8	0.83	457	1.45	0.02
DD020779		1.76	27.3	2.36	3.27	<0.05	0.04	0.05	0.039	0.11	9.1	11.9	2.93	489	1.99	0.02
DD020780		1.83	22.9	2.22	3.24	<0.05	0.04	0.05	0.038	0.10	8.7	11.5	2.78	456	1.57	0.02
DD019861		2.06	36.8	2.62	3.81	0.05	0.06	0.06	0.047	0.14	9.4	14.5	0.80	330	4.87	0.02
DD019862		1.86	42.5	2.62	4.17	0.05	0.05	0.07	0.043	0.11	11.6	15.6	1.07	399	3.52	0.02
DD019863		2.52	28.4	2.67	4.31	0.05	0.04	0.06	0.048	0.13	10.4	16.1	2.35	464	2.94	0.02
DD019864		1.90	31.6	2.86	4.21	0.05	0.06	0.06	0.057	0.14	10.7	15.8	1.03	384	3.55	0.02
DD019865		2.75	29.3	2.76	4.13	<0.05	0.04	0.05	0.045	0.12	10.1	15.3	2.60	561	2.93	0.02
DD019866		5.39	32.2	3.03	5.05	0.05	0.03	0.05	0.048	0.16	10.4	18.0	2.47	587	2.88	0.02
DD019867		2.11	41.8	2.53	3.43	0.05	0.06	0.09	0.049	0.17	10.1	12.5	1.76	391	4.42	0.02
DD019868		4.53	43.1	2.74	4.34	0.06	0.04	0.06	0.062	0.21	9.6	15.5	3.62	707	3.72	0.02
DD019869		5.78	36.8	2.82	4.76	0.05	0.05	0.06	0.049	0.22	9.7	17.3	2.94	482	2.96	0.02
DD019870		3.33	52.7	2.99	4.43	0.05	0.07	0.08	0.057	0.16	10.9	15.2	3.33	540	5.81	0.02

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020751		1.80	34.9	800	24.9	10.9	<0.001	0.06	0.86	4.3	0.9	0.7	34.0	<0.01	0.03	1.5
DD020752		2.76	42.2	580	32.8	10.5	<0.001	0.04	0.94	4.7	1.0	1.1	24.8	0.01	0.03	1.1
DD020753		1.15	36.1	960	36.8	10.3	<0.001	0.03	1.12	3.7	0.8	0.7	25.2	<0.01	0.03	1.3
DD020754		1.60	33.2	1060	26.2	10.2	<0.001	0.04	1.13	3.4	0.8	0.6	61.6	<0.01	0.04	1.3
DD020755		1.52	31.5	1100	18.7	7.9	<0.001	0.03	1.15	3.0	1.0	0.7	79.9	<0.01	0.04	1.9
DD020756		1.03	45.1	860	34.4	6.8	0.002	0.04	1.49	3.0	0.7	0.9	65.1	<0.01	0.04	1.3
DD020757		1.74	43.6	1370	28.9	16.0	<0.001	0.02	1.12	5.0	0.6	0.7	45.8	<0.01	0.04	3.1
DD020758		1.47	33.0	670	26.6	9.9	0.001	0.04	0.97	4.0	0.7	0.6	22.0	<0.01	0.03	2.0
DD020759		2.03	41.0	870	34.8	9.2	<0.001	0.02	1.12	5.1	1.2	1.6	11.0	0.01	0.05	3.4
DD020760		0.96	26.2	1220	21.6	5.1	0.001	0.05	1.10	2.2	1.3	0.5	32.9	<0.01	0.04	0.9
DD020761		1.54	35.3	990	30.7	14.1	0.001	0.04	0.84	3.5	1.5	0.7	35.9	<0.01	0.04	1.8
DD020762		1.30	38.6	1040	26.4	15.5	0.001	0.05	0.82	2.8	0.9	0.6	78.8	<0.01	0.03	1.6
DD020763		1.44	41.0	1110	22.8	10.2	0.001	0.04	1.53	3.0	1.0	0.8	34.9	<0.01	0.04	1.8
DD020764		1.04	45.1	1270	19.0	9.5	<0.001	0.04	1.48	2.9	1.0	0.6	36.9	<0.01	0.04	1.9
DD020765		0.56	56.0	1940	19.3	7.8	0.001	0.03	1.16	3.4	1.7	0.4	61.2	<0.01	0.04	3.3
DD020766		0.98	44.7	1210	19.7	11.7	<0.001	0.07	1.82	2.5	1.6	0.6	44.5	<0.01	0.05	1.0
DD020767		1.26	42.8	1120	21.0	13.4	0.001	0.04	1.46	3.1	0.9	0.9	33.7	<0.01	0.04	1.9
DD020768		1.07	31.1	820	17.6	7.9	0.001	0.05	1.25	2.2	1.3	0.6	32.4	<0.01	0.04	1.3
DD020769		1.17	40.0	1010	21.4	9.7	0.001	0.06	1.68	3.0	1.5	0.6	38.0	<0.01	0.05	2.0
DD020770		0.94	46.3	680	25.3	12.5	0.001	0.07	2.38	2.4	1.5	1.0	37.7	<0.01	0.05	1.1
DD020771		1.08	42.7	1070	22.3	10.4	0.001	0.06	1.86	2.9	1.4	0.9	38.6	<0.01	0.06	1.9
DD020772		0.90	29.4	880	17.1	8.3	0.001	0.07	0.92	2.0	1.1	0.5	27.7	<0.01	0.03	1.0
DD020773		1.19	36.7	830	26.3	13.2	<0.001	0.04	1.44	2.9	0.8	0.9	27.2	<0.01	0.06	1.8
DD020774		1.22	39.9	1040	27.6	16.5	0.001	0.06	1.88	2.8	0.9	1.1	34.5	<0.01	0.03	1.5
DD020775		0.75	23.9	1130	22.6	5.8	<0.001	0.09	0.91	1.4	1.0	0.6	38.5	<0.01	0.03	0.4
DD020776		1.44	35.2	920	26.3	17.1	<0.001	0.06	1.31	2.7	1.0	1.1	33.9	<0.01	0.04	1.4
DD020777		1.28	38.4	1030	24.7	14.8	<0.001	0.05	1.47	2.6	0.8	0.9	40.3	<0.01	0.04	1.2
DD020778		1.37	29.4	770	27.8	12.5	<0.001	0.07	1.02	2.2	0.8	0.9	29.4	<0.01	0.04	0.8
DD020779		1.07	35.3	910	27.2	14.7	0.001	0.06	1.45	2.4	1.0	0.9	39.2	<0.01	0.04	1.6
DD020780		1.01	32.6	830	25.6	13.4	0.004	0.06	1.09	2.3	1.0	0.9	35.3	<0.01	0.03	1.7
DD019861		0.88	46.6	740	32.4	16.0	0.001	0.08	2.60	2.4	1.9	1.7	32.2	<0.01	0.07	1.6
DD019862		0.94	44.0	900	30.0	15.1	0.001	0.06	2.76	2.6	1.5	1.4	32.2	<0.01	0.05	1.4
DD019863		1.08	39.5	920	28.6	19.0	0.001	0.06	1.68	3.0	0.9	1.4	37.7	<0.01	0.04	1.9
DD019864		0.99	40.0	790	36.9	18.6	<0.001	0.05	2.14	3.0	1.4	1.9	25.0	<0.01	0.06	2.0
DD019865		1.09	42.0	830	34.5	16.5	0.001	0.05	1.61	2.8	1.0	2.2	37.1	<0.01	0.05	1.7
DD019866		1.58	54.4	830	31.7	27.6	0.002	0.05	1.61	3.5	1.3	1.7	36.4	<0.01	0.06	1.9
DD019867		0.90	40.8	880	30.6	17.0	0.002	0.07	2.80	2.7	2.2	1.6	50.9	<0.01	0.05	1.9
DD019868		1.14	48.1	770	48.1	42.7	<0.001	0.05	1.96	3.3	1.5	2.7	45.4	<0.01	0.07	1.8
DD019869		1.40	47.9	760	35.5	36.3	0.001	0.06	1.68	3.6	1.8	2.0	43.7	<0.01	0.06	1.8
DD019870		0.98	51.0	810	47.8	23.2	<0.001	0.04	2.49	3.5	1.8	3.4	48.5	<0.01	0.07	2.3

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020751		0.040	0.16	0.95	51	2.18	12.65	144	0.9
DD020752		0.061	0.22	0.73	73	0.93	12.95	166	0.6
DD020753		0.039	0.20	1.50	56	5.49	12.95	287	0.7
DD020754		0.048	0.19	0.75	46	2.56	9.99	155	0.8
DD020755		0.043	0.17	0.62	38	1.63	8.31	113	1.0
DD020756		0.053	0.33	0.95	33	6.11	7.41	368	0.8
DD020757		0.074	0.24	0.69	57	6.10	11.40	254	1.4
DD020758		0.039	0.16	0.89	54	5.00	8.78	216	0.8
DD020759		0.043	0.17	0.85	67	3.19	11.90	188	1.3
DD020760		0.026	0.09	0.99	39	1.89	7.87	128	1.0
DD020761		0.051	0.17	1.23	50	2.13	9.50	185	0.8
DD020762		0.052	0.17	0.82	34	7.07	6.95	301	0.9
DD020763		0.042	0.16	0.88	55	1.59	9.55	150	1.5
DD020764		0.034	0.14	0.83	47	0.75	9.69	155	1.6
DD020765		0.021	0.19	1.07	47	0.48	18.50	420	1.2
DD020766		0.028	0.23	1.65	52	0.54	8.79	207	1.6
DD020767		0.042	0.24	1.07	52	3.66	8.38	185	1.6
DD020768		0.029	0.14	1.32	42	3.53	6.50	140	1.0
DD020769		0.042	0.26	2.05	63	1.33	7.75	270	1.4
DD020770		0.026	0.29	1.99	59	0.68	7.32	208	1.8
DD020771		0.037	0.21	1.22	54	1.02	8.57	173	1.5
DD020772		0.028	0.13	1.31	42	0.68	5.88	179	1.0
DD020773		0.037	0.19	0.76	56	1.63	6.83	194	1.4
DD020774		0.038	0.26	0.95	58	2.01	6.82	226	1.4
DD020775		0.020	0.12	2.00	53	0.42	6.51	127	0.9
DD020776		0.039	0.25	0.69	51	2.02	6.70	231	1.4
DD020777		0.039	0.27	0.70	50	1.53	7.34	197	1.2
DD020778		0.035	0.20	0.83	46	1.98	5.47	213	1.0
DD020779		0.033	0.21	1.07	43	2.32	7.17	208	1.5
DD020780		0.033	0.21	1.28	44	3.57	6.65	411	1.3
DD019861		0.031	0.32	1.33	79	3.74	6.92	273	2.2
DD019862		0.031	0.27	1.66	59	5.21	8.15	210	1.8
DD019863		0.047	0.29	0.73	54	4.06	6.74	201	1.3
DD019864		0.037	0.31	0.96	63	4.82	7.45	243	1.7
DD019865		0.046	0.31	0.72	56	9.41	7.19	224	1.4
DD019866		0.070	0.46	0.76	63	8.01	7.26	238	1.3
DD019867		0.032	0.40	2.35	56	2.22	7.30	206	2.2
DD019868		0.052	0.49	0.68	56	8.26	7.85	306	2.0
DD019869		0.064	0.52	0.66	55	9.70	7.73	230	1.7
DD019870		0.047	0.49	0.71	76	11.60	8.72	326	2.3



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Project: ATAC Regional

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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019871		0.43	0.012	0.39	1.45	34.5	<0.2	<10	350	0.53	1.16	2.90	1.77	26.3	13.2	31
DD019872		0.34	0.010	0.68	1.38	33.1	<0.2	<10	420	0.53	1.11	4.93	1.90	23.2	11.6	27
DD019873		0.20	0.009	0.38	1.17	22.3	<0.2	<10	410	0.43	0.88	1.32	1.23	20.2	8.6	25
DD019874		0.23	0.011	0.22	1.13	27.7	<0.2	<10	300	0.48	0.78	1.18	1.12	23.0	9.9	24
DD019875		0.51	0.011	0.46	1.50	34.9	<0.2	<10	330	0.61	1.06	2.13	0.98	25.7	14.0	33
DD019876		0.35	0.012	0.30	1.15	20.1	<0.2	<10	340	0.43	0.95	1.89	1.06	19.45	8.8	24
DD019877		0.23	0.008	0.34	1.38	23.2	<0.2	<10	380	0.46	0.82	1.56	1.44	20.2	11.4	29
DD019878		0.25	0.008	0.29	1.12	20.8	<0.2	<10	330	0.38	0.91	2.17	0.79	17.10	8.3	24
DD019879		0.22	0.009	0.29	1.19	27.5	<0.2	<10	340	0.50	1.10	2.14	1.10	19.20	9.6	25
DD019880		0.23	0.008	0.26	1.25	27.3	<0.2	<10	360	0.42	1.04	1.95	1.18	17.05	8.5	26
DD019601		0.15	0.002	0.04	1.83	16.2	<0.2	<10	280	0.58	1.16	0.31	1.00	20.0	9.9	29
DD019602		0.27	0.019	0.36	2.06	27.9	<0.2	<10	640	0.76	3.45	1.72	0.66	26.7	15.6	39
DD019603		0.16	0.007	0.19	1.98	24.0	<0.2	<10	650	0.73	3.20	2.77	2.18	24.4	11.3	33
DD019604		0.26	0.005	0.36	2.03	24.1	<0.2	<10	1250	0.81	2.38	0.86	0.87	26.4	14.3	43
DD019605		0.33	0.002	0.20	2.32	12.6	<0.2	<10	520	0.71	1.86	0.79	0.87	24.2	17.2	46
DD019606		0.25	0.003	0.29	2.12	19.3	<0.2	<10	440	0.72	1.86	2.18	0.36	24.6	13.7	38
DD019607		0.31	0.004	0.32	1.94	22.9	<0.2	<10	420	0.70	3.52	3.66	1.04	22.4	13.7	36
DD019608		0.23	0.003	0.27	2.08	18.2	<0.2	<10	390	0.80	1.06	1.86	0.58	27.2	11.8	34
DD019609		0.21	0.004	0.38	1.83	22.3	<0.2	<10	760	0.65	2.22	1.65	0.73	22.6	12.8	34
DD019610		0.22	0.005	0.45	1.52	19.0	<0.2	<10	600	0.59	1.53	3.45	2.12	19.00	11.3	27
DD019611		0.21	0.014	0.39	1.49	40.4	<0.2	<10	370	0.62	1.53	2.34	0.65	24.3	11.6	27
DD019612		0.19	0.004	0.37	2.05	25.7	<0.2	<10	500	0.73	3.18	1.47	0.56	22.8	14.5	40
DD019613		0.18	0.001	0.14	2.00	20.1	<0.2	<10	270	0.86	0.95	2.20	1.11	22.3	9.7	29
DD019614		0.24	0.003	0.38	1.85	17.7	<0.2	<10	430	0.59	2.56	1.92	1.28	16.75	14.0	37
DD019615		0.21	0.001	0.18	1.79	14.8	<0.2	<10	540	0.59	1.22	2.16	0.90	17.20	9.4	30
DD019616		0.25	0.009	0.37	2.07	59.0	<0.2	<10	550	0.72	9.08	2.28	2.52	17.75	12.7	34
DD019617		0.22	0.006	0.34	1.73	16.6	<0.2	<10	600	0.53	3.13	4.67	1.31	17.55	14.0	32
DD019618		0.41	0.006	0.24	1.11	23.5	<0.2	<10	640	0.39	2.40	9.69	0.69	16.05	10.0	21
DD019619		0.24	0.014	0.50	1.07	42.3	<0.2	<10	600	0.45	6.62	8.51	0.97	12.50	8.5	18
DD019620		0.27	0.005	0.38	1.60	20.9	<0.2	<10	540	0.57	3.36	4.84	1.02	18.10	12.2	30
DD018871		0.09	0.007	0.20	0.43	10.6	<0.2	<10	280	0.20	0.31	1.39	3.00	7.51	1.6	12
DD018872		0.15	0.007	0.39	1.36	28.2	<0.2	<10	540	0.44	0.79	0.97	3.87	23.3	16.0	28
DD018873		0.11	0.006	0.24	1.32	34.2	<0.2	<10	380	0.37	0.85	0.66	0.70	22.6	12.9	26
DD018874		0.10	NSS	0.30	0.39	8.0	<0.2	<10	370	0.27	0.20	2.14	7.74	7.05	3.7	9
DD018875		0.14	0.014	0.38	1.32	28.5	<0.2	<10	340	0.58	1.08	1.42	1.29	22.9	10.7	27
DD018876		0.23	0.009	0.37	1.10	28.5	<0.2	<10	230	0.48	1.00	2.86	1.64	26.8	12.5	24
DD018877		0.15	0.003	0.30	1.61	18.5	<0.2	<10	300	0.40	0.71	1.87	1.05	18.50	18.8	58
DD018878		0.14	0.004	0.22	0.86	14.7	<0.2	<10	250	0.29	0.62	2.63	0.46	16.80	10.4	21
DD018879		0.14	0.004	0.35	1.49	18.7	<0.2	<10	340	0.42	0.91	1.74	0.82	18.80	16.1	56
DD018880		0.10	0.009	0.28	0.94	29.5	<0.2	<10	360	0.34	1.17	3.23	21.9	11.55	7.8	26

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019871		2.20	51.0	3.06	4.19	0.06	0.11	0.09	0.038	0.19	14.5	14.1	1.83	542	5.46	0.02
DD019872		1.31	50.7	2.82	3.54	0.05	0.07	0.10	0.037	0.15	12.2	13.6	2.02	492	5.03	0.02
DD019873		1.10	30.5	2.29	3.35	<0.05	0.05	0.09	0.034	0.09	10.6	11.1	0.60	453	3.06	0.01
DD019874		1.01	31.5	2.56	3.50	0.05	0.05	0.07	0.033	0.09	12.0	11.6	0.59	315	3.29	0.01
DD019875		1.58	50.7	3.13	4.54	0.05	0.06	0.09	0.041	0.12	13.7	16.9	1.52	449	3.91	0.02
DD019876		1.15	28.2	2.20	3.22	0.05	0.04	0.07	0.041	0.09	10.6	11.5	1.03	268	2.60	0.02
DD019877		1.25	30.8	2.48	3.85	<0.05	0.04	0.06	0.034	0.12	10.2	14.2	0.68	562	3.10	0.02
DD019878		1.12	24.7	2.21	2.94	<0.05	0.04	0.07	0.035	0.10	9.2	10.4	1.09	412	3.01	0.02
DD019879		1.26	30.9	2.35	3.42	0.05	0.04	0.06	0.041	0.11	10.3	12.1	1.17	434	3.50	0.02
DD019880		1.17	33.1	2.46	3.04	<0.05	0.04	0.07	0.038	0.11	8.9	11.0	1.04	436	2.75	0.02
DD019601		0.74	16.3	3.08	4.84	<0.05	0.03	0.05	0.029	0.07	10.1	14.2	0.58	291	1.27	<0.01
DD019602		1.62	24.3	3.68	5.58	0.06	0.04	0.06	0.044	0.07	16.0	17.6	1.74	752	1.62	0.03
DD019603		1.08	18.5	3.05	5.08	<0.05	0.05	0.02	0.042	0.05	12.1	14.7	2.01	601	2.26	0.01
DD019604		1.68	31.5	3.45	5.95	0.06	0.04	0.07	0.044	0.05	15.4	17.4	0.85	1000	1.34	0.01
DD019605		2.51	26.2	3.71	7.20	0.05	0.04	0.02	0.044	0.07	12.8	21.8	1.25	518	1.22	0.02
DD019606		1.60	19.9	3.30	5.69	0.05	0.03	0.07	0.035	0.06	13.1	17.5	1.78	681	1.15	0.02
DD019607		2.33	26.1	3.14	5.44	<0.05	0.03	0.08	0.048	0.08	12.1	16.1	2.77	791	1.54	0.02
DD019608		1.16	19.7	3.02	5.95	0.05	0.04	0.07	0.035	0.06	15.2	17.8	1.51	533	1.00	0.01
DD019609		1.58	32.4	3.11	4.86	<0.05	0.03	0.08	0.038	0.08	11.7	15.8	1.08	658	1.42	0.02
DD019610		1.38	24.6	2.51	4.15	<0.05	0.03	0.06	0.035	0.06	10.6	13.0	2.24	1080	1.18	0.01
DD019611		0.88	41.9	3.18	4.22	0.05	0.06	0.07	0.041	0.08	13.8	13.9	1.62	386	2.55	0.01
DD019612		2.22	28.5	3.47	5.76	0.05	0.03	0.08	0.044	0.09	12.1	17.2	1.18	897	1.32	0.02
DD019613		1.18	14.2	3.17	5.41	<0.05	0.03	0.05	0.036	0.05	10.8	17.4	1.54	515	1.07	0.01
DD019614		2.58	25.4	2.87	5.48	<0.05	0.02	0.06	0.034	0.07	8.5	16.4	1.44	525	0.93	0.02
DD019615		1.15	12.1	2.69	5.02	<0.05	0.02	0.02	0.030	0.04	8.3	14.6	1.26	492	0.88	0.01
DD019616		1.95	20.3	3.63	5.61	<0.05	0.03	0.05	0.044	0.08	8.9	15.1	1.37	1010	0.90	0.02
DD019617		2.56	24.2	2.87	4.92	0.05	0.02	0.05	0.034	0.08	9.0	14.4	3.30	853	0.87	0.02
DD019618		1.27	29.7	2.17	3.01	<0.05	0.04	0.04	0.027	0.09	8.7	10.5	5.13	547	1.53	0.02
DD019619		0.81	17.8	2.25	2.85	<0.05	0.02	0.06	0.027	0.06	6.8	9.3	5.19	638	0.98	0.02
DD019620		1.79	24.1	2.66	4.41	<0.05	0.03	0.05	0.035	0.07	9.4	12.6	3.31	846	0.94	0.02
DD018871		0.44	17.0	0.95	1.34	<0.05	0.02	0.11	0.010	0.05	4.5	2.8	0.23	89	10.65	0.01
DD018872		0.97	33.9	2.86	3.74	0.05	0.05	0.12	0.036	0.08	12.1	13.4	0.55	2710	10.95	0.01
DD018873		1.07	20.8	2.87	3.65	<0.05	0.04	0.08	0.031	0.08	11.8	13.5	0.52	865	3.61	0.01
DD018874		0.56	36.9	0.75	1.04	<0.05	0.04	0.09	0.012	0.05	3.8	2.8	0.31	417	2.68	0.02
DD018875		1.59	39.6	2.96	3.82	0.06	0.09	0.11	0.041	0.14	11.7	18.8	0.79	356	3.73	0.02
DD018876		1.44	38.5	2.72	3.16	0.06	0.08	0.06	0.036	0.11	13.4	15.1	1.90	603	4.10	0.02
DD018877		1.93	40.9	3.32	4.94	0.06	0.05	0.06	0.029	0.05	9.2	21.3	1.45	504	1.61	0.01
DD018878		0.92	28.9	2.16	2.34	0.05	0.06	0.06	0.019	0.05	8.5	11.0	0.86	309	1.17	0.01
DD018879		2.80	36.7	3.32	4.81	0.07	0.04	0.06	0.032	0.06	9.4	18.9	1.26	385	1.79	0.01
DD018880		1.11	29.3	1.92	2.70	0.05	0.03	0.08	0.025	0.07	6.0	10.4	1.20	274	2.21	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD019871		1.05	49.0	1140	28.4	18.8	0.002	0.02	2.79	4.3	2.2	1.1	47.5	<0.01	0.04	4.6
DD019872		0.91	41.9	980	29.7	12.1	<0.001	0.03	2.90	3.7	1.6	1.1	70.6	<0.01	0.06	3.5
DD019873		0.93	31.3	790	24.8	10.1	0.001	0.07	2.14	2.6	2.1	1.5	34.5	<0.01	0.05	1.5
DD019874		1.00	33.5	740	19.9	9.8	<0.001	0.05	1.82	3.0	1.5	0.7	31.6	<0.01	0.06	1.9
DD019875		1.27	46.4	1040	29.5	13.8	<0.001	0.03	2.14	4.6	1.5	0.9	36.0	<0.01	0.06	3.2
DD019876		0.82	33.1	870	25.5	10.7	0.001	0.05	1.88	2.5	1.4	1.6	34.3	<0.01	0.04	1.8
DD019877		0.98	36.2	950	22.3	14.9	0.002	0.08	1.86	2.9	1.4	1.5	36.1	<0.01	0.06	1.4
DD019878		0.76	29.9	910	26.6	10.6	0.002	0.06	1.79	2.3	1.1	1.2	34.0	<0.01	0.04	1.5
DD019879		0.85	34.7	850	30.8	12.0	0.001	0.05	1.93	2.7	1.0	1.3	36.2	<0.01	0.03	1.8
DD019880		0.78	33.1	830	34.4	10.7	0.001	0.06	1.61	2.3	1.1	1.1	30.2	<0.01	0.02	1.6
DD019601		0.99	21.6	330	22.1	8.6	<0.001	0.02	0.64	3.4	0.4	0.6	7.8	<0.01	0.03	2.1
DD019602		1.99	38.3	680	37.3	8.6	<0.001	0.02	1.08	5.5	0.9	0.8	18.3	<0.01	0.02	3.2
DD019603		1.32	31.7	330	29.7	8.1	<0.001	0.03	0.88	4.4	1.0	0.9	16.7	<0.01	0.04	2.8
DD019604		1.36	33.0	550	33.7	9.9	<0.001	0.04	0.89	4.8	1.2	0.9	15.6	<0.01	0.07	1.8
DD019605		2.58	39.0	670	31.6	12.6	<0.001	0.03	0.98	5.4	0.9	1.7	21.0	<0.01	0.04	2.4
DD019606		1.40	32.8	800	24.3	10.3	<0.001	0.03	0.78	4.5	1.0	0.8	18.7	<0.01	0.03	1.8
DD019607		1.54	35.8	1110	82.2	11.2	<0.001	0.03	1.09	4.1	1.0	1.1	30.8	<0.01	0.05	1.9
DD019608		1.39	29.8	480	29.0	8.3	<0.001	0.02	0.68	5.1	1.0	0.8	17.5	<0.01	0.02	3.1
DD019609		1.24	35.4	1000	29.7	12.2	<0.001	0.05	1.07	3.2	0.8	1.0	24.5	<0.01	0.05	1.3
DD019610		0.80	29.0	940	29.6	11.3	<0.001	0.04	1.04	2.9	1.0	0.8	22.3	<0.01	0.04	0.9
DD019611		0.90	36.8	1110	24.6	10.4	<0.001	0.03	1.42	3.8	1.2	0.7	25.9	<0.01	0.06	2.1
DD019612		1.55	37.7	1150	33.1	15.5	<0.001	0.06	1.09	3.7	1.0	1.1	19.8	<0.01	0.06	1.2
DD019613		0.96	23.1	550	27.7	11.2	<0.001	0.04	0.72	3.5	0.7	0.7	13.1	<0.01	0.03	1.5
DD019614		1.52	30.9	760	31.8	11.0	<0.001	0.07	0.85	2.6	0.8	1.0	21.4	<0.01	0.04	0.6
DD019615		1.19	21.2	510	24.8	10.5	<0.001	0.05	0.69	2.7	0.5	0.7	13.0	<0.01	0.03	1.0
DD019616		1.80	31.0	540	66.1	13.1	<0.001	0.07	0.91	3.6	0.8	1.1	17.3	<0.01	0.11	1.4
DD019617		2.02	33.1	1100	35.2	11.8	<0.001	0.07	0.91	3.3	0.4	0.9	33.0	<0.01	0.05	1.2
DD019618		1.26	26.7	970	23.6	9.2	<0.001	0.02	1.15	3.0	1.0	0.6	70.7	<0.01	0.04	2.2
DD019619		0.71	22.8	890	37.4	8.2	<0.001	0.05	0.94	1.8	1.0	0.6	32.2	<0.01	0.07	0.6
DD019620		1.32	31.1	1010	34.9	10.2	<0.001	0.05	0.86	2.6	0.7	0.8	30.4	<0.01	0.03	0.8
DD018871		0.33	19.0	960	6.4	4.2	<0.001	0.14	1.01	1.1	2.0	0.3	34.8	<0.01	0.03	0.6
DD018872		0.82	42.1	1230	18.9	12.4	<0.001	0.07	1.53	3.0	1.9	0.7	32.7	<0.01	0.06	1.8
DD018873		0.81	28.2	1070	21.3	10.9	0.001	0.05	1.12	2.9	1.5	0.7	26.6	<0.01	0.06	2.1
DD018874		0.28	33.0	1020	7.0	4.6	0.001	0.11	1.31	1.0	3.8	0.2	44.9	<0.01	0.02	0.4
DD018875		0.96	42.3	1110	22.9	13.6	0.002	0.02	2.11	3.8	1.9	0.8	33.5	<0.01	0.06	3.1
DD018876		0.86	43.0	1100	25.0	11.0	0.001	<0.01	2.18	3.5	1.1	0.7	35.6	<0.01	0.05	3.4
DD018877		1.13	64.5	620	11.7	8.2	0.001	0.07	0.97	4.5	1.5	0.4	50.2	<0.01	0.04	1.7
DD018878		0.53	35.9	630	11.2	6.9	0.001	0.07	0.85	1.7	1.2	0.3	55.8	<0.01	0.03	1.2
DD018879		1.26	61.5	760	15.4	8.6	0.001	0.04	1.01	4.5	1.4	0.5	42.8	<0.01	0.04	1.4
DD018880		0.83	152.5	1060	14.6	8.8	0.004	0.13	1.55	1.7	4.3	0.5	66.0	<0.01	0.04	0.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019871		0.049	0.45	0.91	63	0.43	9.57	204	5.5
DD019872		0.035	0.33	0.96	60	0.57	8.82	186	3.5
DD019873		0.028	0.21	1.11	52	0.39	7.02	151	1.9
DD019874		0.028	0.15	0.98	48	0.31	7.90	137	1.9
DD019875		0.042	0.25	0.67	61	0.45	10.75	162	2.7
DD019876		0.031	0.21	1.01	52	1.21	6.83	168	1.5
DD019877		0.031	0.22	1.54	57	0.91	6.64	189	1.6
DD019878		0.030	0.22	1.06	53	0.82	6.01	173	1.3
DD019879		0.030	0.22	0.85	54	1.08	6.99	177	1.6
DD019880		0.031	0.21	0.97	52	2.00	6.37	173	1.5
DD019601		0.021	0.10	0.35	60	0.41	3.58	160	0.9
DD019602		0.058	0.19	0.95	64	1.46	12.05	194	1.5
DD019603		0.034	0.18	0.98	80	0.91	8.20	412	1.4
DD019604		0.037	0.17	1.33	78	7.40	12.85	185	1.3
DD019605		0.081	0.19	0.65	72	1.64	8.40	184	1.1
DD019606		0.044	0.15	0.80	67	0.75	10.50	141	1.3
DD019607		0.057	0.27	0.86	62	2.47	9.54	432	1.0
DD019608		0.039	0.17	0.82	68	0.76	11.60	167	1.5
DD019609		0.038	0.17	0.81	60	1.83	9.01	191	1.2
DD019610		0.031	0.19	0.88	63	1.25	8.75	363	0.8
DD019611		0.028	0.15	0.72	49	0.92	10.45	153	2.0
DD019612		0.046	0.19	1.17	65	1.69	9.96	212	1.0
DD019613		0.027	0.13	0.73	58	0.56	6.33	252	0.9
DD019614		0.052	0.19	0.65	56	4.98	6.94	218	0.7
DD019615		0.031	0.15	0.79	70	0.90	4.73	288	0.7
DD019616		0.044	0.18	0.53	69	1.91	6.35	697	1.0
DD019617		0.056	0.22	0.51	61	2.10	7.43	327	0.9
DD019618		0.040	0.16	0.64	36	1.45	6.57	166	1.8
DD019619		0.020	0.09	0.54	35	1.26	5.58	324	0.8
DD019620		0.040	0.15	0.69	48	2.25	7.80	229	0.8
DD018871		0.011	0.12	0.83	29	0.20	3.28	139	1.0
DD018872		0.022	0.21	1.52	63	0.32	9.20	297	1.7
DD018873		0.021	0.17	1.02	60	0.35	5.70	198	1.4
DD018874		0.012	0.08	0.83	15	0.51	4.82	137	1.5
DD018875		0.028	0.26	1.24	49	0.45	8.22	220	3.7
DD018876		0.031	0.23	0.95	48	0.65	9.38	183	3.3
DD018877		0.076	0.18	2.66	48	0.36	8.33	124	1.9
DD018878		0.024	0.11	2.54	22	0.89	7.90	99	2.0
DD018879		0.070	0.18	2.40	52	0.63	8.67	147	1.4
DD018880		0.026	0.43	5.06	134	0.99	6.35	1140	1.2



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**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018881		0.13	0.005	0.26	0.94	33.6	<0.2	<10	330	0.35	1.36	2.64	1.66	14.60	8.3	22
DD018882		0.19	0.005	0.24	1.36	19.2	<0.2	<10	430	0.44	1.09	3.39	9.52	18.60	12.8	40
DD018883		0.14	0.005	0.27	1.51	20.8	<0.2	<10	630	0.55	0.97	3.28	2.50	19.30	15.6	50
DD018884		0.12	0.007	0.16	0.46	17.2	<0.2	<10	160	0.27	0.42	1.46	1.04	8.10	4.4	6
DD018885		0.20	0.003	0.31	0.32	14.1	<0.2	<10	90	0.22	0.44	6.72	3.39	12.80	4.3	5
DD018886		0.30	0.003	0.22	0.24	18	<0.2	<10	200	0.16	0.41	12.80	2.28	9.26	7.0	4
DD018887		0.27	0.006	0.21	1.04	15.2	<0.2	<10	700	0.40	0.84	7.53	5.54	19.65	10.5	28
DD018888		0.13	0.003	0.19	0.84	18.9	<0.2	<10	310	0.35	0.73	2.67	1.58	13.70	7.4	21
DD018889		0.15	0.004	0.27	1.17	20.1	<0.2	<10	560	0.45	1.24	5.06	1.54	18.70	11.2	27
DD018890		0.09	0.008	0.29	1.11	20.7	<0.2	<10	390	0.45	1.78	4.09	1.45	17.35	8.9	24
DD018891		0.12	0.009	0.34	1.22	23.6	<0.2	<10	560	0.46	1.49	3.71	2.11	20.2	10.8	28
DD018892		0.25	0.004	0.38	1.02	21.6	<0.2	<10	490	0.41	1.47	3.09	2.35	14.65	9.0	23
DD018893		0.16	0.004	0.39	1.05	19.2	<0.2	<10	540	0.38	1.16	3.92	2.99	15.20	9.9	28
DD018894		0.23	0.005	0.33	0.78	13.3	<0.2	<10	300	0.32	0.80	5.72	2.49	18.05	7.3	16
DD018895		0.25	0.007	0.36	1.31	18.5	<0.2	<10	450	0.50	1.83	5.06	0.88	20.4	9.2	25
DD018896		0.14	0.005	0.30	1.02	18.2	<0.2	<10	670	0.38	1.21	4.00	2.46	13.90	8.1	23
DD018897		0.13	0.003	0.28	0.74	12.9	<0.2	<10	630	0.30	1.14	5.89	1.83	11.05	5.8	15
DD018898		0.31	0.007	0.46	1.41	31.2	<0.2	<10	430	0.54	2.13	6.13	1.54	22.8	11.2	28
DD018899		0.13	0.007	0.52	1.41	25.0	<0.2	<10	440	0.53	2.14	4.16	1.96	21.0	10.9	30
DD018900		0.26	0.006	0.41	1.65	31.2	<0.2	<10	360	0.67	3.46	4.84	1.23	24.7	10.2	36
DD018901		0.35	0.011	0.30	1.39	23.1	<0.2	<10	870	0.54	1.35	6.64	1.59	22.0	11.0	34
DD018902		0.24	0.008	0.45	1.25	22.6	<0.2	<10	520	0.49	1.62	5.92	1.54	19.90	9.4	25
DD018903		0.15	0.004	0.38	1.18	20.3	<0.2	<10	480	0.43	1.29	5.12	1.16	20.6	9.4	24
DD019741		0.28	0.011	0.17	1.70	61.1	<0.2	<10	250	0.35	4.18	1.93	0.34	18.55	18.3	66
DD019742		0.24	0.002	0.19	1.31	26.8	<0.2	<10	240	0.30	0.78	3.71	0.43	18.15	13.0	45
DD019743		0.20	0.011	0.19	0.92	24.0	<0.2	<10	220	0.35	1.36	3.99	0.57	18.50	8.6	18
DD019744		0.21	0.007	0.29	1.25	24.5	<0.2	<10	460	0.45	2.61	5.30	0.89	19.70	9.8	29
DD019745		0.22	0.007	0.17	0.82	17.7	<0.2	<10	340	0.29	1.46	6.80	0.81	14.15	7.0	18
DD019746		0.18	0.005	0.17	0.75	10.7	<0.2	<10	350	0.26	1.04	6.47	0.83	9.78	5.1	14
DD019747		0.21	0.006	0.38	0.99	17.1	<0.2	<10	660	0.43	2.68	4.04	1.00	13.20	7.2	20
DD019748		0.26	0.004	0.18	1.84	19.7	<0.2	<10	220	0.79	0.99	1.15	0.66	26.4	10.8	30
DD019749		0.16	0.008	0.25	0.97	14.8	<0.2	<10	430	0.33	1.59	3.99	0.85	11.70	6.8	21
DD019750		0.15	0.007	0.11	0.71	13.7	<0.2	<10	410	0.32	1.08	3.18	1.19	8.00	6.4	14
DD019751		0.20	0.007	0.49	1.61	28.6	<0.2	<10	770	0.63	5.17	1.41	1.09	20.3	11.8	31
DD019752		0.29	0.004	0.32	1.38	17.7	<0.2	<10	440	0.51	2.72	3.38	0.77	18.45	13.0	32
DD019753		0.27	0.006	0.43	1.29	26.4	<0.2	<10	490	0.51	3.97	3.18	0.87	18.30	14.3	26
DD019754		0.25	0.006	0.50	1.36	32.4	<0.2	<10	410	0.60	4.39	2.68	0.94	17.80	11.8	25
DD019755		0.41	0.007	0.36	0.92	30.5	<0.2	<10	490	0.45	2.47	9.00	0.69	15.75	8.0	15
DD019756		0.16	0.024	0.65	1.41	33.5	<0.2	<10	630	0.56	7.71	2.13	1.84	18.80	18.6	33
DD019757		0.20	0.011	0.41	1.85	70.8	<0.2	<10	620	0.80	11.35	1.46	0.94	21.6	11.8	31

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD018881		1.32	24.1	2.14	2.65	0.05	0.05	0.06	0.029	0.08	7.5	10.5	1.05	338	1.57	0.01
DD018882		1.48	29.4	2.63	3.93	0.06	0.06	0.05	0.032	0.13	9.1	16.0	2.06	429	3.80	0.02
DD018883		1.59	26.3	3.24	4.44	0.06	0.05	0.07	0.037	0.13	9.2	16.7	2.36	498	4.00	0.02
DD018884		0.67	10.8	1.62	1.01	<0.05	0.06	0.05	0.023	0.06	4.1	5.9	0.29	148	1.17	0.01
DD018885		0.53	12.5	1.39	0.79	<0.05	0.04	0.04	0.027	0.04	6.3	4.8	4.29	160	1.09	0.01
DD018886		0.39	10.0	1.20	0.67	<0.05	0.04	0.04	0.027	0.03	4.4	3.5	7.81	1560	2.35	0.02
DD018887		1.57	23.9	2.23	3.20	0.05	0.05	0.05	0.032	0.15	9.7	12.4	3.78	390	4.12	0.02
DD018888		0.67	21.2	2.04	2.46	<0.05	0.04	0.06	0.025	0.08	6.7	9.0	0.60	182	2.07	0.01
DD018889		1.40	23.2	2.65	3.33	0.05	0.05	0.05	0.032	0.14	9.2	13.5	2.38	755	9.25	0.02
DD018890		1.35	19.1	2.28	3.21	0.05	0.05	0.06	0.035	0.12	8.8	12.4	2.07	1480	4.98	0.02
DD018891		1.33	28.0	2.42	3.54	0.05	0.05	0.07	0.037	0.11	9.9	13.5	2.17	507	5.30	0.02
DD018892		1.32	31.5	2.05	2.97	0.05	0.04	0.10	0.030	0.10	7.3	10.3	0.91	499	3.91	0.02
DD018893		1.46	37.4	2.20	3.02	0.05	0.04	0.12	0.030	0.11	7.7	11.3	1.67	471	4.57	0.02
DD018894		0.86	17.0	1.86	2.23	<0.05	0.05	0.08	0.025	0.08	8.6	10.1	3.57	299	2.38	0.02
DD018895		1.81	29.2	2.28	3.55	<0.05	0.06	0.06	0.034	0.17	10.2	15.3	3.17	409	2.23	0.02
DD018896		1.15	24.5	1.98	2.83	<0.05	0.04	0.06	0.030	0.10	6.9	10.3	1.10	497	1.62	0.02
DD018897		0.87	20.9	1.46	1.95	<0.05	0.03	0.07	0.022	0.08	5.5	7.8	2.29	328	1.63	0.02
DD018898		2.29	39.5	2.64	3.91	0.05	0.06	0.05	0.046	0.18	11.3	15.6	3.20	592	5.23	0.02
DD018899		2.13	41.2	2.60	3.96	0.05	0.05	0.08	0.043	0.18	10.6	15.4	2.00	632	4.69	0.02
DD018900		3.12	34.5	2.83	4.61	0.05	0.07	0.07	0.056	0.22	12.6	18.2	2.76	527	3.80	0.02
DD018901		1.93	36.7	2.61	3.85	0.05	0.06	0.09	0.039	0.17	11.0	15.0	3.35	491	4.73	0.03
DD018902		2.29	38.9	2.38	3.50	0.06	0.06	0.07	0.040	0.17	10.0	14.3	2.58	488	3.52	0.03
DD018903		1.42	31.2	2.35	3.30	0.05	0.06	0.06	0.032	0.16	10.1	12.8	3.23	514	4.02	0.02
DD019741		2.11	38.0	3.29	5.30	0.05	0.06	0.03	0.030	0.05	9.1	18.4	1.53	475	0.96	0.01
DD019742		1.38	39.1	2.60	3.86	0.05	0.04	0.03	0.024	0.07	9.0	13.7	2.12	374	1.03	0.01
DD019743		1.83	19.9	2.08	2.53	<0.05	0.07	0.04	0.026	0.08	9.1	10.5	1.29	392	1.13	0.02
DD019744		2.35	24.4	2.46	3.47	0.05	0.05	0.06	0.039	0.12	9.8	13.3	2.36	440	1.75	0.02
DD019745		1.27	14.9	1.78	2.29	<0.05	0.04	0.04	0.025	0.09	7.1	8.9	3.80	408	1.51	0.02
DD019746		0.97	17.2	1.36	2.14	<0.05	0.03	0.04	0.019	0.07	5.0	7.4	1.17	285	0.91	0.02
DD019747		1.23	22.0	1.91	3.02	<0.05	0.04	0.07	0.028	0.10	7.2	10.0	1.41	408	1.34	0.02
DD019748		1.17	14.1	2.98	4.84	<0.05	0.03	0.04	0.036	0.03	13.4	14.0	0.81	308	1.32	0.01
DD019749		1.82	14.4	1.78	2.75	<0.05	0.03	0.06	0.026	0.05	6.4	9.7	2.31	288	0.68	0.02
DD019750		0.92	19.5	1.62	2.16	<0.05	0.03	0.08	0.018	0.04	4.5	6.3	0.48	193	0.99	0.01
DD019751		1.54	21.2	2.95	4.94	<0.05	0.04	0.07	0.044	0.05	10.6	14.2	0.76	813	0.97	0.02
DD019752		1.81	23.2	2.62	4.34	<0.05	0.03	0.06	0.031	0.06	9.2	13.0	2.08	568	1.00	0.02
DD019753		1.22	24.5	2.78	3.97	<0.05	0.03	0.08	0.033	0.05	9.6	11.9	1.89	656	1.11	0.02
DD019754		1.28	27.3	2.76	4.16	<0.05	0.04	0.08	0.037	0.05	9.8	12.1	1.49	678	1.30	0.02
DD019755		1.10	27.6	2.10	2.73	<0.05	0.05	0.05	0.026	0.09	8.8	10.4	5.35	439	2.17	0.02
DD019756		1.21	26.0	3.58	4.24	<0.05	0.03	0.11	0.044	0.05	9.1	12.0	0.98	1860	1.13	0.02
DD019757		1.59	18.0	3.74	5.85	<0.05	0.04	0.06	0.049	0.05	12.6	17.8	0.79	688	1.31	0.01

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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD018881		0.81	35.7	720	19.2	9.1	0.002	0.09	1.10	1.9	2.2	0.6	45.5	<0.01	0.04	1.1
DD018882		1.10	81.6	1120	18.6	11.1	0.005	0.08	1.50	3.0	3.4	0.6	50.9	<0.01	0.04	1.8
DD018883		1.36	82.3	1000	29.4	12.2	0.004	0.04	2.03	3.5	2.3	0.5	45.0	<0.01	0.04	2.1
DD018884		0.17	10.1	590	60.7	6.1	<0.001	0.05	2.05	1.1	0.6	0.2	25.4	<0.01	0.05	0.9
DD018885		0.19	16.6	740	55.8	4.5	0.001	0.01	2.26	1.5	0.9	0.2	41.2	<0.01	0.04	1.3
DD018886		0.18	12.1	640	55.7	3.9	0.002	<0.01	2.12	1.0	1.1	0.2	41.2	<0.01	0.02	0.9
DD018887		1.18	62.8	1190	21.4	12.5	0.003	0.04	1.72	2.9	2.0	0.5	95.4	<0.01	0.03	2.3
DD018888		0.70	34.8	720	19.2	8.1	0.006	0.10	2.21	1.9	2.5	0.4	46.8	<0.01	0.04	1.0
DD018889		1.07	53.7	1020	21.2	11.5	0.010	0.06	2.08	2.5	3.4	0.7	73.3	<0.01	0.04	1.6
DD018890		0.93	38.8	920	24.7	11.3	0.009	0.05	1.44	2.3	2.8	0.8	48.2	<0.01	0.04	1.2
DD018891		1.01	56.0	1000	23.5	11.3	0.002	0.02	1.94	2.7	1.7	0.8	39.9	<0.01	0.04	1.6
DD018892		0.86	57.8	910	20.9	11.2	0.007	0.09	2.01	1.8	4.3	0.7	48.3	<0.01	0.05	0.6
DD018893		0.92	61.0	970	20.2	13.5	0.003	0.07	2.84	2.0	3.4	0.6	61.5	<0.01	0.04	0.8
DD018894		0.62	25.7	940	24.2	10.7	0.003	0.02	1.83	2.1	1.9	0.4	43.8	<0.01	0.03	1.5
DD018895		1.11	30.2	1060	23.8	14.3	0.001	0.01	1.59	2.6	1.2	0.8	44.8	<0.01	0.05	1.7
DD018896		0.87	27.8	870	18.8	10.0	0.002	0.07	1.33	1.7	1.9	0.7	58.3	<0.01	0.04	0.6
DD018897		0.62	20.5	830	14.5	7.6	0.001	0.07	1.19	1.2	2.1	0.4	72.5	<0.01	0.03	0.4
DD018898		1.36	43.6	1060	27.8	21.6	<0.001	<0.01	2.16	3.3	1.0	1.3	72.1	<0.01	0.04	2.4
DD018899		1.14	42.8	1090	25.7	20.8	0.001	0.03	2.01	2.5	1.8	1.1	85.9	<0.01	0.06	1.2
DD018900		1.54	44.1	820	30.5	22.6	0.001	<0.01	1.99	3.8	1.1	1.6	52.2	<0.01	0.05	3.0
DD018901		1.29	48.6	1070	22.4	15.4	0.001	<0.01	2.20	3.7	1.1	0.9	77.8	<0.01	0.04	2.7
DD018902		1.12	37.6	980	24.2	18.6	0.002	0.01	2.00	2.9	1.5	1.1	71.5	<0.01	0.04	1.8
DD018903		0.93	32.7	1080	20.6	15.7	0.003	0.02	1.95	2.7	1.5	0.7	47.2	<0.01	0.04	1.6
DD019741		1.33	57.7	590	14.0	8.1	0.001	0.04	1.22	3.9	1.0	0.5	41.1	<0.01	0.04	2.0
DD019742		0.92	39.0	720	14.7	7.9	0.001	0.04	0.91	3.1	1.0	0.3	53.4	<0.01	0.03	1.5
DD019743		0.74	23.4	670	21.7	11.0	0.001	0.05	0.98	1.8	1.4	0.5	68.9	<0.01	0.03	2.1
DD019744		1.39	31.8	880	25.0	14.9	0.001	0.04	1.38	2.6	1.6	0.9	62.4	0.01	0.04	1.5
DD019745		1.00	19.0	820	18.5	10.9	0.002	0.03	1.03	1.8	1.1	0.6	62.9	<0.01	0.03	1.1
DD019746		0.87	16.9	720	12.9	7.8	0.003	0.12	1.02	1.3	1.5	0.4	64.6	0.01	0.03	0.4
DD019747		1.01	24.4	740	21.9	12.8	<0.001	0.07	1.11	1.8	0.9	0.6	52.4	<0.01	0.04	0.9
DD019748		0.95	43.0	610	27.1	7.8	<0.001	0.03	0.80	3.4	0.7	0.6	13.8	<0.01	0.04	1.9
DD019749		0.81	21.5	900	18.4	10.0	0.002	0.11	0.47	1.7	0.8	0.5	30.6	<0.01	0.02	0.9
DD019750		0.70	21.0	580	17.6	5.5	0.001	0.15	0.61	1.2	0.9	0.4	34.3	<0.01	0.02	0.4
DD019751		1.11	30.8	780	43.3	9.8	<0.001	0.05	1.02	2.7	1.0	0.8	17.0	<0.01	0.05	1.0
DD019752		1.30	36.9	840	25.4	10.1	<0.001	0.06	0.83	2.7	0.8	0.7	26.3	<0.01	0.04	1.0
DD019753		1.00	39.9	860	38.2	7.8	<0.001	0.06	0.99	2.2	0.8	0.7	20.0	<0.01	0.04	0.8
DD019754		0.94	31.5	990	36.8	9.2	<0.001	0.07	1.17	2.1	0.6	0.8	19.1	<0.01	0.04	0.7
DD019755		0.99	27.4	1010	21.8	8.4	<0.001	0.01	1.26	2.5	0.7	0.5	59.7	<0.01	0.03	2.3
DD019756		0.91	45.1	920	52.2	7.4	<0.001	0.10	1.33	2.7	0.8	0.7	18.7	<0.01	0.08	0.8
DD019757		1.36	31.8	480	62.3	10.1	<0.001	0.04	1.21	3.6	0.9	1.1	15.1	<0.01	0.20	1.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018881		0.025	0.17	2.84	49	1.48	7.41	222	1.8
DD018882		0.040	0.30	1.88	99	0.91	7.14	637	1.9
DD018883		0.059	0.23	1.54	91	0.50	7.48	587	1.7
DD018884		<0.005	0.12	1.83	10	0.12	3.25	256	1.9
DD018885		0.005	0.11	1.00	13	0.15	5.61	388	1.3
DD018886		0.005	0.12	1.04	11	0.15	3.88	410	1.3
DD018887		0.042	0.40	1.65	51	1.68	7.84	641	1.9
DD018888		0.022	0.15	1.99	44	0.34	5.88	246	1.6
DD018889		0.033	0.36	2.89	47	1.46	7.22	264	1.7
DD018890		0.027	0.20	1.64	54	1.90	6.90	255	1.5
DD018891		0.029	0.26	0.86	60	1.27	8.16	300	1.8
DD018892		0.023	0.34	6.82	54	1.17	7.02	380	1.6
DD018893		0.029	0.32	3.45	57	0.83	7.79	433	1.6
DD018894		0.020	0.17	1.14	39	0.45	7.46	255	1.5
DD018895		0.031	0.22	1.12	49	1.93	8.47	196	2.0
DD018896		0.024	0.15	1.12	42	1.54	5.97	208	1.4
DD018897		0.018	0.11	2.09	32	1.96	4.92	181	1.1
DD018898		0.042	0.33	0.86	63	3.33	9.39	223	2.2
DD018899		0.036	0.25	1.28	61	3.00	9.85	226	1.9
DD018900		0.049	0.41	0.68	78	5.09	10.15	220	2.6
DD018901		0.048	0.31	0.88	76	1.71	9.41	205	2.5
DD018902		0.037	0.31	1.22	55	2.63	8.64	185	2.3
DD018903		0.031	0.21	1.03	51	0.88	7.89	184	1.9
DD019741		0.081	0.12	1.78	49	0.39	7.57	104	2.0
DD019742		0.045	0.10	1.27	41	0.39	7.06	100	1.6
DD019743		0.032	0.15	1.19	26	0.79	8.41	148	2.5
DD019744		0.038	0.24	0.70	43	2.58	8.00	168	1.7
DD019745		0.026	0.14	1.22	31	1.79	5.72	157	1.3
DD019746		0.019	0.12	1.81	25	0.67	4.28	113	1.1
DD019747		0.026	0.14	0.89	33	1.49	5.87	168	1.4
DD019748		0.023	0.13	0.82	55	0.50	8.72	163	1.0
DD019749		0.026	0.11	1.92	34	1.95	5.39	663	1.0
DD019750		0.016	0.10	7.55	23	0.63	4.33	199	1.2
DD019751		0.029	0.15	1.23	59	1.09	8.14	295	1.0
DD019752		0.038	0.16	0.80	46	1.27	7.22	188	1.0
DD019753		0.028	0.12	0.99	47	1.05	8.21	291	1.0
DD019754		0.025	0.13	1.04	48	1.30	9.39	263	1.3
DD019755		0.027	0.12	0.75	31	1.11	6.67	160	2.1
DD019756		0.027	0.15	1.02	55	2.77	7.46	701	1.0
DD019757		0.029	0.15	0.71	64	1.28	9.81	409	1.4



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019758		0.22	0.007	0.25	1.76	18.2	<0.2	<10	700	0.67	3.28	2.09	2.01	17.30	12.2	31
DD019759		0.23	0.006	0.30	1.74	21.1	<0.2	<10	360	0.69	2.43	1.56	0.94	19.20	12.0	33
DD019760		0.28	0.004	0.17	2.02	28.6	<0.2	<10	460	0.87	2.02	0.69	1.10	25.2	12.8	36
DD019761		0.32	0.013	0.35	1.43	32.4	<0.2	<10	360	0.64	2.56	2.55	1.21	19.60	9.6	26
DD019762		0.26	0.003	0.11	1.77	11.0	<0.2	<10	200	0.63	1.60	0.24	0.79	21.2	9.3	27
DD019763		0.26	0.013	1.02	1.49	36.0	<0.2	<10	970	0.79	1.36	3.06	8.33	20.6	10.9	25
DD019764		0.21	0.003	0.39	1.46	19.2	<0.2	<10	590	0.61	2.12	4.75	1.19	18.40	10.7	27
DD019765		0.36	0.015	0.21	2.04	34.9	<0.2	<10	310	0.89	4.26	0.80	0.45	24.7	15.1	43
DD019766		0.19	0.003	0.17	1.87	19.8	<0.2	<10	630	0.77	2.83	1.16	0.45	19.50	11.8	33
DD019767		0.19	0.003	0.28	1.72	17.1	<0.2	<10	570	0.68	2.03	3.92	2.05	21.2	12.4	30
DD019768		0.19	0.002	0.30	1.81	18.7	<0.2	<10	660	0.68	2.69	1.51	0.89	18.85	13.6	35
DD019769		0.31	0.003	0.45	1.76	17.5	<0.2	<10	790	0.76	2.22	1.27	0.91	23.0	12.4	35
DD019770		0.24	0.007	0.35	2.03	26.3	<0.2	<10	850	0.92	3.64	1.26	1.66	31.4	15.2	36
DD019771		0.20	0.004	0.20	1.30	27.0	<0.2	<10	1050	0.52	4.44	1.55	1.45	18.40	10.4	25
DD019772		0.22	0.004	0.30	1.55	25.4	<0.2	<10	800	0.70	2.22	1.49	1.10	24.9	11.5	27
DD019773		0.19	0.002	0.06	1.88	17.5	<0.2	<10	650	0.68	1.97	0.41	1.78	21.0	11.2	33
DD019774		0.23	0.004	0.21	1.34	22.6	<0.2	<10	250	0.59	2.03	3.58	0.99	21.1	9.6	25
DD019775		0.24	0.004	0.34	1.15	25.1	<0.2	<10	280	0.50	1.29	1.71	4.02	15.15	9.0	25
DD019776		0.25	0.003	0.31	1.12	21.3	<0.2	<10	220	0.45	1.19	1.53	4.93	12.30	8.7	26
DD019777		0.17	0.012	0.28	1.18	22.6	<0.2	<10	240	0.51	1.56	1.63	4.22	15.70	10.2	26
DD019778		0.25	0.006	0.49	1.38	27.4	<0.2	<10	290	0.61	1.89	1.12	3.85	20.2	10.3	30
DD019780		0.42	0.016	0.40	1.07	35.6	<0.2	<10	270	0.58	0.77	3.31	1.12	29.0	12.1	22
DD020801		0.18	0.015	0.33	1.69	16.9	<0.2	<10	430	0.68	1.85	2.43	0.54	20.2	13.8	43
DD020802		0.31	0.004	0.22	1.71	17.6	<0.2	<10	250	0.62	2.20	5.10	0.75	20.6	15.2	45
DD020803		0.24	0.006	0.31	1.80	19.7	<0.2	<10	300	0.72	2.84	3.33	0.92	21.9	14.8	45
DD020804		0.19	0.004	0.24	1.43	18.0	<0.2	<10	300	0.50	1.93	1.94	1.03	19.95	13.2	38
DD020805		0.32	0.005	0.26	1.38	18.4	<0.2	<10	350	0.58	1.09	5.59	1.08	21.9	10.6	29
DD020806		0.26	0.004	0.37	1.50	15.1	<0.2	<10	350	0.62	5.46	3.72	0.94	25.6	11.7	32
DD020807		0.43	0.021	0.27	1.66	19.4	<0.2	<10	280	0.56	2.43	3.08	0.79	22.9	11.5	36
DD020808		0.30	0.004	0.17	2.22	13.6	<0.2	<10	250	0.59	7.01	2.24	0.74	27.1	20.0	32
DD020809		0.27	0.002	0.19	1.47	12.3	<0.2	<10	280	0.47	4.21	2.82	0.98	20.2	12.5	25
DD020810		0.38	0.007	0.28	1.92	32.1	<0.2	<10	290	0.54	2.56	3.69	0.84	22.6	16.7	52
DD020821		0.30	0.014	0.36	1.38	31.1	<0.2	<10	340	0.50	5.48	3.66	1.58	21.0	12.8	32
DD020822		0.15	0.007	0.47	1.56	29.4	<0.2	<10	560	0.50	4.13	2.15	2.34	20.7	13.3	33
DD020823		0.22	0.005	0.37	1.43	24.9	<0.2	<10	570	0.48	3.12	2.01	1.78	18.35	10.4	30
DD020824		0.22	0.010	0.38	1.54	28.8	<0.2	<10	860	0.70	3.21	2.25	0.49	20.0	12.3	30
DD020825		0.22	0.004	0.54	1.23	24.5	<0.2	<10	580	0.52	2.13	5.92	2.28	16.85	10.1	22
DD020826		0.16	0.008	0.29	0.95	14.1	<0.2	<10	520	0.29	1.62	3.23	1.06	10.00	7.8	20
DD020827		0.13	0.007	0.27	1.02	14.5	<0.2	<10	440	0.41	2.49	2.47	1.35	12.45	7.2	22
DD020828		0.24	0.005	0.33	1.14	27.4	<0.2	<10	510	0.47	2.60	2.15	1.51	16.10	8.9	24

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
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**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019758		2.15	19.0	2.92	5.54	<0.05	0.03	0.06	0.043	0.06	9.0	15.8	1.28	739	1.03	0.02
DD019759		1.73	24.1	3.19	5.40	<0.05	0.03	0.07	0.039	0.05	10.5	16.1	1.08	1040	1.11	0.02
DD019760		1.75	26.2	3.73	6.53	0.05	0.05	0.05	0.047	0.07	14.4	17.9	0.97	549	1.93	0.01
DD019761		0.96	30.9	2.99	4.26	<0.05	0.05	0.07	0.037	0.07	11.7	13.3	1.78	388	1.87	0.01
DD019762		1.45	7.7	2.61	6.30	<0.05	0.03	0.03	0.031	0.03	10.8	13.5	0.43	374	1.45	<0.01
DD019763		1.39	23.4	3.76	4.97	0.05	0.04	0.11	0.071	0.05	11.6	14.4	1.67	2780	2.13	0.02
DD019764		1.60	20.5	2.61	4.39	<0.05	0.03	0.05	0.035	0.06	9.5	14.1	3.30	718	1.62	0.02
DD019765		2.16	24.5	3.79	6.21	0.06	0.04	0.10	0.047	0.05	17.9	20.6	1.16	497	1.90	0.02
DD019766		1.76	19.2	2.97	5.89	<0.05	0.03	0.07	0.040	0.05	10.9	17.2	0.91	545	1.07	0.02
DD019767		2.18	27.6	2.91	5.33	<0.05	0.03	0.06	0.029	0.06	11.0	16.0	2.60	939	1.10	0.02
DD019768		2.52	24.9	3.04	6.06	<0.05	0.02	0.06	0.036	0.05	10.3	18.2	0.93	569	0.98	0.02
DD019769		2.49	31.9	2.97	5.42	<0.05	0.04	0.05	0.042	0.06	14.2	18.3	0.97	659	1.65	0.02
DD019770		1.82	23.6	3.52	6.66	0.05	0.05	0.07	0.044	0.06	18.1	18.1	1.30	691	1.53	0.02
DD019771		1.00	18.7	2.59	4.15	<0.05	0.04	0.05	0.042	0.05	9.8	13.1	0.64	537	1.08	0.01
DD019772		1.05	25.1	2.82	4.99	0.05	0.04	0.06	0.040	0.04	13.6	15.5	0.99	572	1.29	0.02
DD019773		1.01	17.6	3.16	6.29	<0.05	0.04	0.03	0.044	0.05	10.7	16.7	0.65	323	1.49	0.01
DD019774		0.88	24.1	2.64	4.12	<0.05	0.05	0.06	0.039	0.07	11.5	14.2	2.56	401	1.52	0.01
DD019775		1.59	31.0	2.28	3.68	<0.05	0.03	0.06	0.044	0.05	7.7	12.2	0.61	439	3.11	0.02
DD019776		1.84	31.7	2.02	3.54	0.06	0.03	0.05	0.033	0.05	6.8	14.1	0.52	310	4.31	0.02
DD019777		1.58	32.4	2.41	3.49	<0.05	0.04	0.07	0.034	0.06	8.2	12.9	0.62	524	7.38	0.02
DD019778		1.95	41.7	2.76	4.42	0.05	0.04	0.09	0.044	0.07	11.4	17.1	0.74	372	7.57	0.02
DD019780		1.44	38.6	2.87	3.53	0.05	0.07	0.08	0.034	0.12	15.1	15.3	2.09	495	3.62	0.02
DD020801		3.73	35.3	2.89	5.45	<0.05	0.04	0.07	0.038	0.16	11.3	22.2	1.14	672	1.84	0.02
DD020802		4.61	28.1	3.00	5.54	0.05	0.04	0.04	0.034	0.17	11.3	19.3	3.16	521	2.04	0.02
DD020803		5.37	46.4	3.12	5.62	0.06	0.05	0.06	0.042	0.24	11.9	20.3	2.13	530	2.08	0.02
DD020804		2.18	26.6	2.93	4.28	0.05	0.03	0.09	0.034	0.09	10.4	14.7	0.88	644	1.69	0.02
DD020805		1.61	30.1	2.74	3.89	0.05	0.06	0.08	0.029	0.16	11.6	13.7	2.10	523	2.41	0.02
DD020806		2.18	34.6	2.76	4.55	0.05	0.05	0.10	0.032	0.11	13.9	15.6	2.00	483	1.85	0.02
DD020807		2.35	26.3	2.96	5.14	0.06	0.04	0.04	0.035	0.11	13.7	19.0	1.45	436	1.66	0.02
DD020808		4.37	30.6	4.02	7.45	0.06	0.03	0.02	0.040	0.11	14.3	23.7	1.88	729	1.44	0.03
DD020809		2.36	25.3	2.79	4.59	<0.05	0.04	0.03	0.027	0.08	10.8	15.9	1.33	543	1.24	0.02
DD020810		4.77	41.8	3.44	5.92	0.06	0.05	0.05	0.038	0.16	12.9	21.2	2.31	579	2.93	0.03
DD020821		1.38	33.8	2.87	3.98	0.05	0.06	0.07	0.039	0.09	11.5	13.1	2.22	908	2.62	0.03
DD020822		2.61	30.8	3.27	4.48	<0.05	0.04	0.09	0.037	0.06	11.8	14.6	1.04	638	1.05	0.02
DD020823		1.90	19.8	2.83	4.31	<0.05	0.03	0.09	0.032	0.05	10.3	15.0	0.84	328	1.40	0.02
DD020824		1.38	22.3	2.92	4.83	<0.05	0.03	0.09	0.041	0.06	11.2	15.5	0.81	516	1.00	0.02
DD020825		1.36	23.1	2.63	3.49	<0.05	0.03	0.06	0.033	0.08	9.9	12.5	3.94	700	2.28	0.02
DD020826		1.76	17.0	1.83	2.82	<0.05	0.03	0.08	0.023	0.05	5.4	9.3	0.70	273	1.07	0.01
DD020827		1.50	20.6	2.02	3.04	<0.05	0.04	0.07	0.028	0.06	6.7	10.2	0.82	322	0.87	0.02
DD020828		1.24	28.3	2.33	3.52	<0.05	0.04	0.05	0.037	0.07	8.6	12.3	0.68	518	1.78	0.02

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019758		1.61	29.4	680	32.8	10.0	<0.001	0.05	0.91	2.9	0.6	1.1	19.5	<0.01	0.05	1.2
DD019759		1.32	31.7	850	27.3	10.1	<0.001	0.05	0.87	3.1	0.8	0.9	18.7	<0.01	0.03	1.3
DD019760		1.27	36.5	610	31.2	11.5	<0.001	0.02	1.09	5.0	0.6	1.0	13.9	<0.01	0.04	2.4
DD019761		0.91	32.6	1040	23.8	9.9	<0.001	0.03	1.17	2.9	0.9	0.6	21.5	<0.01	0.04	1.6
DD019762		1.30	18.4	230	23.8	9.0	<0.001	<0.01	0.51	3.1	0.2	0.9	7.8	<0.01	0.03	3.0
DD019763		0.85	40.4	890	42.8	10.2	<0.001	0.06	1.92	2.9	1.3	0.8	23.0	<0.01	0.04	0.9
DD019764		1.16	32.9	1050	25.5	8.9	<0.001	0.04	0.98	2.7	1.1	0.7	33.2	<0.01	0.05	1.1
DD019765		1.68	47.7	840	35.1	10.6	<0.001	0.02	1.10	5.5	1.1	4.1	17.7	<0.01	0.05	2.6
DD019766		1.60	29.4	910	29.3	7.7	<0.001	0.05	0.89	2.9	0.5	1.0	17.8	<0.01	0.05	1.1
DD019767		1.23	31.0	1540	26.7	11.4	<0.001	0.06	0.83	2.5	0.7	11.6	31.4	<0.01	0.04	0.8
DD019768		1.93	30.1	760	26.2	11.0	0.001	0.06	0.78	2.8	0.7	0.9	23.8	<0.01	0.05	1.0
DD019769		1.54	39.0	1070	32.1	11.8	<0.001	0.03	1.00	3.5	1.0	0.9	26.4	<0.01	0.03	1.8
DD019770		1.64	36.4	480	37.9	11.8	<0.001	0.02	1.03	5.8	1.1	1.4	17.7	<0.01	0.05	3.0
DD019771		1.16	25.5	680	34.6	7.4	<0.001	0.05	0.82	2.3	0.6	0.7	22.3	<0.01	0.04	1.0
DD019772		1.12	30.1	620	26.6	7.5	<0.001	0.03	0.95	3.3	0.8	1.7	18.4	<0.01	0.03	1.6
DD019773		1.42	23.8	250	28.7	14.1	<0.001	0.01	0.76	4.0	0.4	0.8	10.6	<0.01	0.04	2.8
DD019774		1.02	29.2	550	26.2	9.4	<0.001	0.03	1.03	3.6	0.7	0.6	19.8	<0.01	0.04	2.4
DD019775		0.79	40.2	630	25.0	12.9	0.008	0.09	1.49	2.0	4.2	1.3	35.0	<0.01	0.04	1.0
DD019776		0.72	55.0	540	19.5	10.1	0.009	0.08	1.57	1.8	6.4	1.1	34.0	<0.01	0.04	0.9
DD019777		0.81	61.2	560	26.7	11.2	0.008	0.07	1.90	1.9	5.4	0.9	36.6	<0.01	0.06	1.3
DD019778		0.89	63.1	790	28.0	15.5	0.003	0.05	2.04	2.9	2.0	1.3	31.2	<0.01	0.06	1.6
DD019780		0.86	37.1	1000	33.2	12.6	0.002	0.02	2.09	4.0	1.3	0.7	43.3	<0.01	0.05	4.1
DD020801		1.88	42.9	760	27.4	26.3	0.001	0.07	1.25	3.4	2.3	1.1	63.3	<0.01	0.03	1.4
DD020802		2.31	45.3	1140	23.3	26.4	<0.001	0.03	0.90	4.0	0.7	0.9	69.6	<0.01	0.02	2.5
DD020803		2.04	48.2	1180	25.6	36.7	0.001	0.04	1.28	3.9	1.3	1.3	49.3	<0.01	0.05	2.3
DD020804		1.51	39.4	940	27.7	13.2	0.001	0.08	0.94	2.6	1.2	0.8	42.7	<0.01	0.04	1.3
DD020805		1.48	33.8	1090	28.0	15.5	0.001	0.04	1.45	3.3	1.0	0.7	90.0	<0.01	0.02	3.1
DD020806		1.63	36.5	1110	29.1	16.1	<0.001	0.03	1.19	3.5	0.9	0.9	48.7	<0.01	0.04	2.4
DD020807		1.61	36.4	690	30.3	16.7	<0.001	0.03	1.30	3.8	1.0	0.9	45.4	<0.01	0.05	2.2
DD020808		3.69	35.0	1790	28.9	18.8	<0.001	0.03	1.02	4.4	0.7	1.2	45.4	0.01	0.06	2.5
DD020809		2.13	28.9	1190	22.9	16.0	<0.001	0.05	0.97	2.6	0.5	0.9	49.9	<0.01	0.04	1.3
DD020810		1.84	60.6	1060	31.7	23.2	<0.001	0.03	1.58	4.7	1.2	1.1	56.7	<0.01	0.05	3.0
DD020821		0.96	41.0	1120	27.8	11.3	0.001	0.05	1.51	3.2	1.1	0.8	38.7	<0.01	0.07	1.7
DD020822		1.44	39.7	970	35.6	11.4	<0.001	0.07	0.89	3.0	1.0	0.9	29.8	<0.01	0.04	1.3
DD020823		1.26	28.2	1080	31.2	9.5	0.001	0.10	0.71	2.4	1.3	0.8	29.1	<0.01	0.03	0.8
DD020824		1.37	31.7	630	28.2	10.2	<0.001	0.07	0.90	2.9	1.5	1.1	31.0	<0.01	0.04	1.0
DD020825		0.96	36.7	1120	33.6	13.1	<0.001	0.05	1.13	2.6	0.7	0.8	38.3	<0.01	0.03	1.3
DD020826		0.85	21.7	920	16.9	7.4	0.002	0.19	0.68	1.3	1.6	0.6	36.9	<0.01	0.02	0.4
DD020827		0.96	24.6	790	21.2	10.6	0.003	0.15	0.75	1.7	1.4	0.7	26.1	<0.01	0.03	0.7
DD020828		0.96	33.0	600	24.5	9.4	<0.001	0.08	1.42	1.9	1.1	1.0	27.1	<0.01	0.04	0.7

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019758		0.040	0.18	1.03	62	1.95	6.87	363	1.1
DD019759		0.037	0.17	0.99	60	1.13	8.45	237	1.0
DD019760		0.033	0.18	0.93	71	1.09	11.20	302	1.7
DD019761		0.023	0.12	0.84	46	5.10	10.15	143	1.7
DD019762		0.028	0.16	0.44	68	1.33	2.96	148	1.3
DD019763		0.024	0.51	1.10	83	2.11	13.00	1040	1.3
DD019764		0.033	0.18	1.19	52	0.97	8.31	159	1.1
DD019765		0.047	0.21	1.05	70	2.31	17.75	170	1.5
DD019766		0.034	0.19	0.91	63	1.49	7.91	173	1.2
DD019767		0.036	0.13	1.29	56	0.83	9.29	219	0.8
DD019768		0.042	0.15	1.17	61	6.75	7.10	150	0.9
DD019769		0.043	0.23	0.72	52	1.19	13.60	240	1.4
DD019770		0.040	0.17	0.92	71	0.99	15.85	320	1.7
DD019771		0.028	0.11	0.79	50	1.14	6.93	333	1.1
DD019772		0.029	0.11	0.91	51	1.02	9.74	242	1.3
DD019773		0.023	0.12	0.54	66	0.68	3.94	183	1.4
DD019774		0.027	0.12	0.57	43	1.17	8.59	152	1.7
DD019775		0.028	0.26	1.26	56	1.05	5.96	273	1.2
DD019776		0.026	0.31	1.42	56	0.78	6.12	467	1.3
DD019777		0.027	0.29	2.30	63	5.63	6.57	482	1.3
DD019778		0.032	0.27	1.33	61	5.02	9.41	426	1.5
DD019780		0.030	0.20	0.74	38	0.78	10.05	161	3.5
DD020801		0.058	0.33	1.44	49	4.87	9.26	156	1.5
DD020802		0.074	0.37	0.50	49	13.35	8.06	151	1.6
DD020803		0.066	0.41	0.93	50	7.61	9.34	190	1.7
DD020804		0.046	0.24	1.07	47	2.05	7.05	192	1.1
DD020805		0.042	0.25	0.81	45	1.46	7.87	157	2.5
DD020806		0.046	0.24	0.65	46	4.61	9.17	167	1.9
DD020807		0.051	0.25	0.56	50	4.63	10.05	155	1.3
DD020808		0.086	0.27	0.42	60	3.04	9.83	158	1.1
DD020809		0.046	0.18	0.57	40	1.80	7.58	154	1.1
DD020810		0.075	0.47	0.75	66	2.42	10.35	178	2.1
DD020821		0.036	0.22	1.49	50	2.34	8.66	211	1.7
DD020822		0.042	0.21	2.07	63	1.71	8.22	745	1.1
DD020823		0.034	0.19	3.71	72	0.80	8.12	550	0.9
DD020824		0.029	0.15	2.46	60	1.27	9.57	209	1.1
DD020825		0.028	0.22	1.40	54	4.25	8.27	498	1.3
DD020826		0.020	0.16	7.31	39	0.66	4.66	347	1.0
DD020827		0.025	0.15	2.76	39	1.00	5.43	486	1.2
DD020828		0.027	0.15	1.75	46	1.93	6.28	269	1.2



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 Account: RCM

Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD020829		0.17	0.004	0.48	1.34	32.1	<0.2	<10	490	0.49	3.79	2.01	2.04	16.40	9.6	33
DD020830		0.18	0.010	0.42	1.33	34.0	<0.2	<10	460	0.54	4.38	2.65	1.08	19.45	10.3	29
DD020831		0.16	0.012	0.29	1.22	24.6	<0.2	<10	440	0.49	1.94	2.01	0.64	20.1	9.9	24
DD020832		0.35	0.005	0.43	1.32	24.2	<0.2	<10	450	0.56	3.42	3.87	0.91	20.8	9.9	26
DD020833		0.26	0.004	0.39	1.21	19.7	<0.2	<10	450	0.49	2.59	3.73	1.46	15.80	8.2	24
DD020834		0.34	0.012	0.53	1.41	18.5	<0.2	<10	260	0.47	3.56	7.25	0.99	18.00	11.0	21
DD020835		0.29	0.006	0.30	1.36	19.8	<0.2	<10	340	0.47	3.07	5.83	0.90	16.20	10.3	23
DD020836		0.40	0.004	0.29	1.75	20.8	<0.2	<10	480	0.64	4.19	5.02	0.90	21.6	13.4	36
DD020837		0.37	0.004	0.33	1.57	21.6	<0.2	<10	360	0.55	3.72	6.95	0.81	19.00	12.2	31
DD020838		0.37	0.005	0.32	1.37	26.3	<0.2	<10	340	0.58	2.73	3.62	0.51	21.3	9.6	26
DD020839		0.30	0.006	0.44	1.82	42.5	<0.2	<10	440	0.78	4.78	1.79	0.90	22.0	11.7	41
DD020840		0.44	0.005	0.37	1.37	31.8	<0.2	<10	420	0.52	2.97	6.05	1.46	19.90	9.7	27
DD020841		0.40	0.005	0.40	1.22	23.7	<0.2	<10	490	0.51	2.32	4.57	0.93	19.50	9.9	24
DD020842		0.29	0.004	0.35	1.25	24.4	<0.2	<10	740	0.50	1.77	5.58	1.17	19.70	10.7	23
DD020843		0.26	0.005	0.36	0.94	21.8	<0.2	<10	510	0.42	3.95	9.17	0.82	14.20	7.1	18
DD020844		0.44	0.005	0.33	1.28	24.7	<0.2	<10	500	0.52	2.34	6.05	0.87	21.1	10.3	25
DD020845		0.36	0.012	0.36	1.16	25.1	<0.2	<10	480	0.47	2.66	4.58	0.77	18.60	8.2	24
DD020846		0.45	0.044	0.37	1.23	34.1	<0.2	<10	240	0.48	4.00	6.56	0.89	17.75	10.0	27
DD020847		0.32	0.008	0.29	0.88	33.3	<0.2	<10	200	0.41	3.58	6.76	0.58	15.35	8.0	19
DD020848		0.16	0.003	0.23	1.20	19.2	<0.2	<10	320	0.45	1.63	2.60	1.27	17.35	8.8	23
DD020849		0.21	0.005	0.25	1.17	15.5	<0.2	<10	410	0.47	1.51	2.46	0.75	17.10	8.1	23
DD020850		0.39	0.004	0.30	1.56	19.7	<0.2	<10	450	0.65	1.39	2.62	0.44	26.9	9.9	29
DD020891		0.36	0.003	0.20	0.67	17.7	<0.2	<10	120	0.30	0.77	4.50	0.42	15.40	9.4	12
DD020892		0.44	0.003	0.19	0.69	25.0	<0.2	<10	160	0.32	0.53	6.22	0.73	21.0	9.7	12
DD020893		0.24	0.003	0.52	1.89	19.8	<0.2	<10	740	0.75	1.01	0.69	1.94	26.9	9.8	35
DD020894		0.22	0.006	0.89	1.43	20.2	<0.2	<10	420	0.54	0.82	1.14	14.95	25.4	9.2	66
DD020895		0.18	0.006	0.44	1.55	18.5	<0.2	<10	620	0.53	1.26	1.19	8.35	21.5	9.4	33
DD020896		0.25	0.004	0.76	1.35	23.4	<0.2	<10	580	0.52	1.75	4.23	5.37	19.10	7.8	37
DD020897		0.52	0.005	0.31	1.22	28.3	<0.2	<10	680	0.43	1.92	6.00	0.87	17.95	8.4	24
DD020898		0.14	0.006	0.55	1.29	14.5	<0.2	<10	1560	0.49	0.37	1.31	3.69	18.55	6.8	47
DD020899		0.23	0.007	0.39	1.10	35.3	<0.2	<10	660	0.40	0.93	3.61	3.00	14.60	8.0	22
DD020900		0.17	0.005	0.56	1.14	28.1	<0.2	<10	600	0.47	1.48	2.79	2.10	19.15	9.9	26
DD020911		0.23	0.002	0.10	0.88	7.5	<0.2	10	140	0.80	0.26	0.76	0.14	10.80	15.4	17
DD020912		0.31	0.002	0.16	1.37	9.7	<0.2	<10	160	1.04	0.26	1.58	0.26	25.1	13.7	22
DD020913		0.38	0.003	0.14	1.45	9.8	<0.2	<10	150	0.95	0.23	2.48	0.31	24.6	12.2	26
DD020914		0.52	0.002	0.22	1.45	23.5	<0.2	<10	200	1.02	0.25	2.72	1.01	27.4	15.1	23
DD020915		0.28	0.001	0.21	1.25	22.8	<0.2	<10	150	0.78	0.20	3.76	2.05	21.0	8.9	24
DD020916		0.22	0.001	0.11	0.95	44	<0.2	<10	90	0.56	0.10	13.15	0.43	10.50	6.0	14
DD020917		0.32	0.002	0.30	1.33	29.1	<0.2	<10	100	0.75	0.17	7.25	2.12	20.1	7.4	24
DD020918		0.53	0.001	0.07	1.25	22.8	<0.2	<10	130	0.79	0.20	5.10	0.99	22.2	11.5	19

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020829		1.97	28.6	2.73	3.93	<0.05	0.04	0.07	0.055	0.09	8.8	12.8	0.89	549	2.07	0.02
DD020830		1.49	29.0	2.96	3.83	<0.05	0.04	0.05	0.045	0.08	10.8	13.1	1.53	475	2.17	0.02
DD020831		1.03	22.4	2.57	3.55	<0.05	0.04	0.04	0.029	0.06	11.3	12.8	1.19	515	1.62	0.02
DD020832		1.25	23.8	2.58	3.78	<0.05	0.05	0.06	0.036	0.08	11.4	14.9	2.40	699	2.24	0.02
DD020833		1.36	22.6	2.35	3.38	<0.05	0.04	0.05	0.030	0.07	8.8	12.5	1.95	599	1.57	0.02
DD020834		2.48	21.7	2.64	4.09	<0.05	0.04	0.04	0.030	0.12	9.9	14.9	4.77	698	1.88	0.02
DD020835		2.02	20.3	2.59	3.91	<0.05	0.03	0.03	0.031	0.11	9.2	13.8	4.04	650	1.95	0.02
DD020836		3.27	29.9	3.02	5.04	<0.05	0.04	0.04	0.034	0.13	11.6	18.4	3.37	715	1.39	0.03
DD020837		3.45	28.7	2.71	4.61	<0.05	0.04	0.04	0.035	0.14	11.0	16.9	4.08	596	1.60	0.03
DD020838		1.42	25.8	2.70	3.98	<0.05	0.05	0.04	0.035	0.10	11.9	15.8	2.53	426	1.85	0.02
DD020839		3.08	41.9	3.41	5.34	0.05	0.06	0.06	0.064	0.17	13.6	19.1	1.48	502	3.61	0.02
DD020840		2.52	35.2	2.61	4.05	0.05	0.06	0.04	0.042	0.15	11.1	14.4	3.24	521	2.98	0.02
DD020841		1.41	28.1	2.45	3.55	<0.05	0.05	0.05	0.033	0.10	10.6	14.3	3.00	542	1.93	0.02
DD020842		1.36	27.9	2.51	3.63	<0.05	0.05	0.06	0.031	0.11	10.6	14.5	3.22	538	3.20	0.02
DD020843		1.11	18.8	1.86	2.71	<0.05	0.04	0.04	0.025	0.07	7.8	11.0	5.87	499	1.18	0.02
DD020844		1.86	34.0	2.56	3.72	<0.05	0.06	0.04	0.031	0.13	12.0	15.5	3.51	503	2.56	0.02
DD020845		1.46	21.0	2.49	3.29	<0.05	0.06	0.04	0.029	0.11	10.5	14.2	2.97	344	2.34	0.02
DD020846		2.25	31.7	2.46	3.64	0.06	0.05	0.05	0.037	0.10	10.0	13.7	4.36	518	2.36	0.03
DD020847		1.32	24.4	2.18	2.49	<0.05	0.04	0.03	0.035	0.06	10.0	9.7	4.68	571	2.29	0.02
DD020848		1.03	19.4	2.38	3.49	<0.05	0.03	0.06	0.035	0.05	8.6	13.0	1.36	656	1.20	0.02
DD020849		1.00	16.6	2.23	3.32	<0.05	0.04	0.06	0.023	0.05	8.5	12.5	1.05	547	0.67	0.02
DD020850		1.03	24.4	2.78	4.72	<0.05	0.04	0.33	0.032	0.08	13.4	15.2	1.83	527	1.49	0.02
DD020891		0.53	27.5	2.83	1.70	<0.05	0.03	0.08	0.023	0.04	8.0	6.9	2.72	569	1.41	0.02
DD020892		0.53	31.2	2.96	1.72	<0.05	0.04	0.04	0.022	0.07	9.7	7.4	3.73	615	2.07	0.02
DD020893		0.97	24.0	3.10	5.06	<0.05	0.05	0.06	0.037	0.06	13.4	14.2	0.61	646	4.13	0.02
DD020894		1.79	54.5	2.81	3.27	0.06	0.05	0.18	0.022	0.08	18.5	15.4	1.01	302	8.36	0.01
DD020895		1.37	29.1	2.73	3.94	0.05	0.05	0.10	0.029	0.07	11.1	13.7	0.77	681	2.91	0.02
DD020896		1.30	72.0	2.53	3.29	0.07	0.06	0.24	0.036	0.11	12.9	11.2	2.58	377	12.25	0.01
DD020897		1.10	31.0	2.48	3.12	<0.05	0.04	0.05	0.029	0.10	9.9	10.3	3.93	459	3.43	0.03
DD020898		0.95	54.4	2.32	2.90	<0.05	0.04	0.20	0.019	0.07	11.1	13.5	0.66	319	9.55	0.01
DD020899		0.88	54.5	2.69	3.00	<0.05	0.04	0.08	0.027	0.10	8.5	10.2	2.62	335	8.22	0.02
DD020900		1.13	67.1	3.31	3.06	<0.05	0.03	0.16	0.029	0.08	10.4	10.1	1.56	574	3.47	0.02
DD020911		2.47	31.8	3.54	2.76	<0.05	0.07	0.04	0.027	0.18	4.2	13.3	0.37	616	0.70	0.01
DD020912		1.38	34.1	2.93	4.34	0.09	0.09	0.09	0.035	0.12	11.3	24.5	0.73	554	1.06	0.01
DD020913		1.87	36.8	3.01	4.59	0.09	0.10	0.09	0.036	0.14	13.3	24.6	1.75	356	0.85	0.01
DD020914		1.64	29.0	3.31	4.62	0.10	0.08	0.12	0.037	0.11	13.2	18.3	1.72	622	1.75	0.01
DD020915		1.14	19.2	2.65	3.58	0.07	0.06	0.25	0.027	0.08	10.7	13.2	1.62	404	1.00	0.01
DD020916		0.95	8.0	1.50	2.78	<0.05	0.05	0.12	0.018	0.06	5.8	8.6	8.15	394	0.63	0.02
DD020917		1.01	15.0	2.18	3.68	0.07	0.07	0.15	0.025	0.06	10.4	11.9	4.50	407	0.92	0.02
DD020918		1.34	20.7	2.68	3.88	0.07	0.07	0.03	0.030	0.10	9.9	21.0	2.88	474	1.14	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020829		1.11	34.2	790	34.9	12.9	<0.001	0.08	1.51	2.3	1.0	1.4	24.2	<0.01	0.04	0.8
DD020830		1.01	36.2	1020	37.7	12.0	<0.001	0.06	1.58	2.4	1.0	0.9	26.2	<0.01	0.07	1.4
DD020831		0.91	28.3	1030	21.1	8.2	<0.001	0.05	1.05	2.2	0.8	0.6	23.9	<0.01	0.05	1.3
DD020832		0.97	34.4	1020	28.6	11.0	<0.001	0.04	1.46	2.8	0.6	0.8	37.5	<0.01	0.06	1.6
DD020833		0.91	27.7	1000	28.1	10.7	<0.001	0.07	1.19	2.0	0.6	0.8	29.0	<0.01	0.04	0.8
DD020834		1.80	29.4	1400	26.4	14.2	<0.001	0.03	1.15	2.7	0.5	1.0	45.2	<0.01	0.05	1.9
DD020835		1.45	29.9	1160	26.0	12.8	0.001	0.05	1.08	2.5	0.7	0.8	39.3	<0.01	0.03	1.6
DD020836		1.70	39.8	1100	31.4	19.8	<0.001	0.03	1.06	3.4	0.7	1.0	43.6	<0.01	0.04	1.4
DD020837		1.81	38.2	1170	30.8	21.2	<0.001	0.03	1.18	3.2	0.8	1.1	54.9	<0.01	0.04	1.8
DD020838		1.12	32.0	860	30.0	11.0	<0.001	0.03	1.32	2.9	0.6	0.8	28.8	<0.01	0.04	1.6
DD020839		1.34	50.5	690	42.8	22.4	<0.001	0.03	2.19	3.7	1.3	2.2	25.0	<0.01	0.07	2.2
DD020840		1.22	41.3	950	32.2	17.9	<0.001	0.02	1.84	3.3	1.0	1.2	66.2	<0.01	0.05	2.5
DD020841		1.02	33.4	1090	27.2	11.5	<0.001	0.03	1.25	2.5	0.7	0.7	37.9	<0.01	0.05	1.5
DD020842		0.99	37.0	1370	27.7	11.4	<0.001	0.04	1.57	2.5	0.8	0.7	58.0	<0.01	0.03	1.5
DD020843		0.79	25.9	860	25.7	8.7	<0.001	0.03	1.06	2.0	0.6	0.6	39.6	<0.01	0.04	1.1
DD020844		1.27	37.6	1150	24.9	14.5	<0.001	0.03	1.59	3.1	0.8	0.7	61.2	<0.01	0.04	2.4
DD020845		1.06	29.4	1320	25.8	12.3	<0.001	0.05	1.41	2.6	0.5	0.6	38.3	<0.01	0.06	1.9
DD020846		1.21	37.9	1010	30.6	10.4	<0.001	0.02	1.48	3.1	0.7	1.0	48.9	<0.01	0.05	2.3
DD020847		0.83	31.5	1110	25.7	7.6	<0.001	0.02	1.30	2.3	0.9	0.9	37.8	<0.01	0.05	1.7
DD020848		0.85	26.4	750	20.1	8.7	<0.001	0.06	0.94	2.0	0.8	0.6	18.3	<0.01	0.04	0.9
DD020849		0.86	23.1	820	24.4	9.5	<0.001	0.08	0.76	2.0	0.8	0.5	19.3	<0.01	0.03	0.8
DD020850		1.06	30.8	860	24.5	10.6	<0.001	0.01	1.00	3.8	0.9	0.7	22.8	<0.01	0.06	2.7
DD020891		0.40	21.8	610	28.4	4.2	<0.001	0.01	1.80	2.3	0.4	0.3	50.6	<0.01	0.03	2.0
DD020892		0.46	26.6	870	31.3	5.2	<0.001	0.01	4.94	2.4	0.4	0.3	59.4	<0.01	0.04	2.9
DD020893		1.09	29.7	590	27.2	7.0	<0.001	<0.01	1.71	4.2	1.3	0.9	23.1	<0.01	0.06	3.1
DD020894		0.95	260	1200	19.8	12.3	<0.001	0.07	2.59	2.9	9.3	0.5	52.6	<0.01	0.14	2.0
DD020895		0.99	58.8	660	22.1	12.6	<0.001	0.04	1.40	2.9	3.0	0.7	26.1	<0.01	0.05	1.3
DD020896		0.81	95.6	1020	24.8	12.3	<0.001	0.02	2.43	2.8	7.4	0.9	58.9	<0.01	0.07	1.6
DD020897		1.02	35.5	950	26.4	9.1	<0.001	0.01	1.84	2.8	1.6	0.7	57.3	<0.01	0.04	2.2
DD020898		0.85	87.5	1830	11.7	9.3	0.001	0.03	1.88	2.4	2.7	0.5	51.5	<0.01	0.06	1.6
DD020899		1.34	66.1	840	18.7	10.2	0.001	0.02	3.64	2.6	3.1	0.5	33.6	<0.01	0.06	3.2
DD020900		1.18	45.9	930	27.2	9.2	<0.001	0.06	3.12	2.6	3.2	0.6	36.1	<0.01	0.06	1.4
DD020911		0.22	32.5	630	17.7	12.6	0.001	0.03	0.36	4.6	0.6	0.5	57.8	<0.01	0.04	2.9
DD020912		0.49	29.2	730	17.3	10.9	<0.001	0.06	0.48	5.1	1.0	0.5	41.1	<0.01	0.04	2.7
DD020913		0.46	25.5	710	17.7	12.9	0.001	0.05	0.60	5.3	1.0	0.5	35.7	<0.01	0.04	2.1
DD020914		0.54	29.6	560	57.3	10.8	<0.001	0.03	1.20	4.7	0.8	0.5	34.1	<0.01	0.04	2.2
DD020915		0.54	22.1	1580	82.9	8.8	<0.001	0.09	1.23	2.5	1.0	0.4	45.1	<0.01	0.04	0.8
DD020916		0.49	14.7	680	38.6	7.8	<0.001	0.03	1.62	2.7	0.5	0.3	61.2	<0.01	0.03	1.1
DD020917		0.60	22.8	1100	195.5	9.1	<0.001	0.06	1.25	2.6	0.7	0.4	53.0	0.01	0.06	1.1
DD020918		0.57	21.5	350	32.3	11.9	<0.001	0.03	0.79	4.4	0.6	0.4	44.2	<0.01	0.03	3.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020829		0.035	0.18	1.45	50	3.33	7.01	343	1.4
DD020830		0.030	0.19	1.10	48	3.41	7.86	331	1.3
DD020831		0.028	0.12	0.69	41	1.82	7.25	155	1.2
DD020832		0.030	0.17	0.66	45	1.39	8.56	165	1.5
DD020833		0.027	0.14	0.73	42	1.11	6.82	225	1.1
DD020834		0.045	0.26	0.70	48	2.13	7.56	208	1.3
DD020835		0.040	0.21	0.72	47	2.90	6.83	213	1.3
DD020836		0.055	0.24	0.61	52	2.51	8.93	202	0.9
DD020837		0.052	0.29	0.63	46	2.75	8.44	191	1.3
DD020838		0.031	0.17	0.68	43	1.33	9.61	161	1.5
DD020839		0.044	0.35	0.76	80	6.05	11.00	294	1.9
DD020840		0.043	0.33	0.65	55	2.95	8.22	221	2.2
DD020841		0.027	0.17	0.65	41	1.82	8.54	206	1.6
DD020842		0.027	0.18	1.05	44	1.76	8.23	212	1.6
DD020843		0.024	0.12	0.58	32	2.44	6.52	198	1.2
DD020844		0.036	0.21	0.85	42	1.47	8.52	172	2.1
DD020845		0.029	0.17	1.11	39	4.39	6.84	198	1.9
DD020846		0.045	0.26	0.71	51	2.76	8.23	189	1.9
DD020847		0.029	0.22	0.89	39	4.30	8.30	149	1.3
DD020848		0.027	0.13	0.89	46	0.87	5.97	226	0.9
DD020849		0.027	0.10	1.51	42	0.61	6.21	258	0.9
DD020850		0.036	0.13	0.72	50	0.94	8.59	135	1.3
DD020891		0.014	0.11	0.59	20	0.50	8.10	123	1.3
DD020892		0.015	0.11	0.87	22	0.26	8.55	185	1.8
DD020893		0.027	0.26	0.92	111	1.61	10.40	224	1.7
DD020894		0.033	0.94	3.20	117	2.53	26.2	1420	2.4
DD020895		0.028	0.29	0.92	66	0.84	9.73	445	1.4
DD020896		0.023	0.35	3.43	108	1.48	19.20	608	2.0
DD020897		0.034	0.16	0.82	55	1.41	8.99	181	1.5
DD020898		0.028	0.43	2.69	235	0.52	17.80	523	1.4
DD020899		0.035	0.35	0.93	65	0.73	8.97	428	2.0
DD020900		0.034	0.21	1.53	61	0.93	11.90	223	1.2
DD020911		0.005	0.12	3.25	17	<0.05	8.82	97	2.0
DD020912		0.008	0.16	1.70	28	0.11	11.70	83	2.1
DD020913		0.011	0.18	0.97	29	0.10	11.95	119	2.6
DD020914		0.011	0.22	0.96	33	0.13	10.75	331	1.9
DD020915		0.012	0.16	1.57	35	0.14	10.30	347	1.3
DD020916		0.007	0.11	0.86	22	0.10	6.00	120	1.5
DD020917		0.014	0.18	0.62	32	0.26	9.37	666	1.8
DD020918		0.011	0.28	0.84	29	0.11	6.92	694	1.9



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**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020919		0.30	0.001	0.10	1.06	28.7	<0.2	<10	110	0.78	0.22	9.30	0.31	26.1	11.4	19
DD020920		0.33	0.002	0.10	1.14	19.3	<0.2	<10	130	0.87	0.22	7.84	0.32	25.0	12.1	19
DD020921		0.33	0.003	0.13	1.71	21.9	<0.2	<10	220	1.02	0.25	2.88	0.36	29.8	12.0	29
DD020922		0.27	0.001	0.09	1.80	21.8	<0.2	<10	260	1.00	0.28	1.79	0.46	33.1	10.7	30
DD020923		0.31	0.001	0.12	1.51	37.1	<0.2	<10	220	1.00	0.25	4.10	0.55	35.0	11.2	24
DD020924		0.35	0.002	0.12	1.06	19.2	<0.2	<10	90	0.72	0.17	8.61	0.44	21.3	10.0	16
DD020925		0.24	0.001	0.14	2.25	27.2	<0.2	<10	180	1.27	0.25	4.34	0.48	44.5	10.4	33
DD020926		0.39	0.003	0.13	1.66	25.0	<0.2	<10	170	1.15	0.25	3.31	0.43	33.8	13.3	26
DD020927		0.32	0.003	0.08	0.67	10	<0.2	<10	70	0.35	0.09	11.50	0.54	14.75	5.1	12
DD020928		0.40	0.003	0.05	0.45	12	<0.2	<10	60	0.41	0.06	17.25	0.32	7.47	3.3	8
DD020929		0.50	0.002	0.08	0.49	16	<0.2	<10	90	0.32	0.09	15.30	0.31	13.00	4.6	9
DD020930		0.26	0.003	0.12	1.11	23	<0.2	<10	120	0.58	0.17	10.95	0.39	23.2	8.2	17
DD020973		0.58	0.090	0.43	1.38	32.0	<0.2	<10	620	0.54	1.09	2.84	1.27	23.2	14.6	34
DD020974		0.69	0.007	0.38	1.37	33.4	<0.2	<10	750	0.54	1.02	3.10	1.50	25.7	14.4	34
DD020975		0.72	0.007	0.40	1.30	31.0	<0.2	<10	760	0.49	1.29	3.48	1.87	22.7	14.3	32
DD020976		0.58	0.006	0.40	1.07	33.3	<0.2	<10	620	0.35	1.49	3.15	1.62	21.5	13.7	28
DD020977		0.26	0.007	0.49	1.17	32.2	<0.2	<10	770	0.44	1.40	2.75	2.21	20.6	14.3	33
DD020978		0.22	0.005	0.21	1.62	17.4	<0.2	<10	520	0.66	1.62	5.84	0.84	17.20	16.8	56
DD020979		0.19	0.005	0.25	1.60	20.4	<0.2	<10	720	0.66	1.47	3.21	0.97	17.55	15.2	52
DD020980		0.22	0.004	0.22	1.19	19.9	<0.2	<10	650	0.46	0.85	2.93	0.96	20.2	13.3	34
DD020981		0.38	0.007	0.39	1.29	30.8	<0.2	<10	850	0.47	1.26	2.63	2.08	18.75	10.6	33
DD020982		0.23	0.017	0.38	1.24	28.4	<0.2	<10	880	0.44	1.10	2.10	1.74	18.60	10.6	31
DD019551		0.21	0.006	0.28	1.60	30.9	<0.2	<10	420	0.38	1.14	2.03	7.56	18.35	12.6	56
DD019553		0.31	0.005	0.80	1.23	33.0	<0.2	<10	820	0.33	0.85	4.47	8.62	16.65	17.6	38
DD019554		0.14	0.006	0.38	1.47	21.5	<0.2	<10	540	0.27	0.60	3.31	7.48	12.30	17.0	52
DD019555		0.54	0.008	0.42	1.21	27.6	<0.2	<10	830	0.42	1.30	5.38	2.91	21.2	10.2	30
DD019556		0.31	0.179	0.39	1.04	22.4	<0.2	<10	460	0.37	1.29	5.53	3.18	17.10	9.2	27
DD019557		0.17	0.008	0.39	1.39	23.8	<0.2	<10	650	0.40	1.03	3.18	3.37	17.75	15.4	58
DD019558		0.15	0.005	0.33	1.35	20.4	<0.2	<10	510	0.34	0.74	2.60	3.53	14.35	13.0	50
DD019559		0.21	0.006	0.41	1.42	23.3	<0.2	<10	550	0.30	0.75	2.52	4.05	16.65	13.4	56
DD019560		0.20	0.004	0.30	1.24	22.3	<0.2	<10	460	0.29	0.76	2.44	2.43	15.05	11.7	44
DD019561		0.28	0.004	0.37	0.98	14.2	<0.2	<10	330	0.32	0.78	5.72	1.94	16.40	8.0	17
DD019562		0.15	0.012	0.61	1.06	18.6	<0.2	<10	440	0.31	1.34	2.82	1.25	13.30	8.2	22
DD019563		0.23	0.007	0.47	1.14	18.6	<0.2	<10	480	0.40	1.43	4.72	2.51	16.30	8.4	24
DD019564		0.26	0.007	0.46	1.36	25.3	<0.2	<10	500	0.51	1.58	4.54	2.44	16.85	10.9	34
DD019565		0.19	0.005	0.31	1.16	18.0	<0.2	<10	510	0.43	1.35	6.07	2.91	13.95	8.0	24
DD019566		0.28	0.018	0.38	1.43	26.8	<0.2	<10	480	0.58	2.63	4.67	2.13	21.0	10.4	33
DD019567		0.18	0.003	0.27	0.70	24.7	<0.2	<10	230	0.36	0.76	2.92	1.40	17.50	7.2	14
DD019568		0.11	0.005	0.24	0.88	16.8	<0.2	<10	430	0.40	0.93	6.48	3.13	14.60	7.8	21





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020919		1.59	15.3	2.76	3.12	0.08	0.08	0.09	0.032	0.10	12.1	9.2	4.98	401	2.00	0.02
DD020920		1.58	25.2	2.60	3.50	0.08	0.09	0.11	0.030	0.12	11.7	14.6	4.41	447	1.01	0.02
DD020921		1.33	25.2	3.23	5.16	0.10	0.09	0.09	0.037	0.10	15.7	18.3	1.68	530	1.65	0.01
DD020922		1.13	17.1	3.34	5.51	0.10	0.09	0.06	0.039	0.08	16.8	14.8	1.09	534	1.32	0.01
DD020923		1.63	19.7	3.21	4.36	0.09	0.11	0.10	0.039	0.10	16.4	17.3	2.26	653	1.37	0.01
DD020924		1.24	20.3	2.18	3.16	0.07	0.10	0.08	0.027	0.11	10.4	12.1	4.88	396	0.98	0.02
DD020925		1.49	15.7	3.24	5.97	0.11	0.13	0.05	0.043	0.09	21.8	16.3	2.80	589	1.40	0.01
DD020926		0.93	22.6	3.32	5.00	0.10	0.13	0.06	0.038	0.16	17.6	16.4	1.94	601	1.41	0.01
DD020927		0.54	11.6	1.19	1.97	0.05	0.03	0.04	0.013	0.04	7.8	6.6	6.65	223	0.90	0.02
DD020928		0.38	6.8	0.72	1.09	<0.05	0.04	0.05	0.009	0.03	4.0	3.6	9.98	194	0.68	0.01
DD020929		0.89	9.3	0.99	1.29	0.05	0.06	0.05	0.013	0.04	6.2	3.9	8.51	197	1.86	0.02
DD020930		0.99	17.7	1.79	2.82	0.06	0.08	0.06	0.023	0.07	10.9	7.3	5.67	339	3.32	0.02
DD020973		2.05	44.4	3.29	4.67	0.10	0.07	0.09	0.035	0.12	13.0	15.9	1.90	547	4.12	0.03
DD020974		1.88	52.2	3.31	4.66	0.11	0.08	0.09	0.038	0.13	14.1	16.0	1.84	561	4.96	0.02
DD020975		2.53	59.3	3.22	4.31	0.11	0.07	0.09	0.037	0.15	12.6	14.7	2.07	469	4.13	0.02
DD020976		2.31	45.7	2.97	3.58	0.10	0.07	0.07	0.032	0.11	12.0	11.4	2.00	393	4.72	0.02
DD020977		1.80	55.8	2.92	3.91	0.10	0.06	0.10	0.036	0.11	11.5	12.7	1.52	554	4.54	0.03
DD020978		1.99	31.0	3.24	6.76	0.10	0.04	0.04	0.039	0.15	8.7	17.7	3.48	641	1.29	0.02
DD020979		2.10	34.8	3.06	6.12	0.09	0.04	0.06	0.039	0.13	9.1	16.7	2.11	490	2.29	0.02
DD020980		1.12	26.5	3.12	3.96	0.06	0.03	0.09	0.024	0.05	9.2	9.3	1.55	464	3.14	0.02
DD020981		1.51	45.1	2.86	3.83	0.05	0.05	0.13	0.038	0.11	9.5	9.9	1.25	445	4.81	0.03
DD020982		1.41	40.4	2.81	3.60	<0.05	0.04	0.11	0.031	0.10	9.2	8.9	0.90	569	5.13	0.03
DD019551		1.60	57.0	3.06	4.78	0.05	0.05	0.09	0.034	0.05	9.4	13.3	1.37	357	3.94	0.01
DD019553		1.30	52.6	3.29	3.40	0.08	0.05	0.09	0.039	0.09	8.3	9.9	2.57	583	11.45	0.02
DD019554		1.38	48.9	3.13	4.38	0.12	0.03	0.10	0.031	0.04	6.0	10.2	1.84	655	10.35	0.02
DD019555		1.43	40.6	2.86	3.45	0.05	0.07	0.09	0.031	0.12	10.6	10.2	3.22	479	7.02	0.02
DD019556		1.10	31.0	2.46	2.88	<0.05	0.04	0.09	0.031	0.08	8.4	8.7	3.32	478	5.85	0.02
DD019557		1.18	38.3	3.04	4.08	0.06	0.04	0.08	0.029	0.07	8.9	12.0	2.19	613	5.97	0.02
DD019558		1.10	42.0	2.87	3.87	0.06	0.03	0.09	0.028	0.06	7.5	11.0	1.58	405	4.28	0.02
DD019559		1.01	45.7	2.99	4.20	0.07	0.03	0.08	0.028	0.06	8.4	10.9	1.80	445	5.11	0.02
DD019560		1.07	27.3	2.56	3.86	0.06	0.03	0.09	0.031	0.07	7.5	11.0	1.39	425	3.48	0.02
DD019561		1.23	36.8	2.02	2.86	<0.05	0.04	0.08	0.021	0.09	8.2	11.4	3.67	395	2.30	0.02
DD019562		1.10	24.1	1.98	3.06	0.05	0.04	0.10	0.025	0.11	6.8	9.8	0.92	634	2.23	0.02
DD019563		1.18	30.7	2.22	3.04	<0.05	0.05	0.11	0.030	0.13	7.9	9.5	2.42	734	2.91	0.02
DD019564		1.81	42.6	2.51	3.95	0.06	0.07	0.13	0.036	0.16	8.3	11.4	2.09	498	10.55	0.02
DD019565		1.13	22.8	2.15	3.15	0.05	0.05	0.06	0.028	0.13	7.1	9.4	1.33	433	2.89	0.02
DD019566		2.03	32.1	2.75	4.19	0.05	0.06	0.08	0.049	0.16	10.9	12.8	2.60	587	4.26	0.02
DD019567		0.63	30.5	2.20	1.95	0.05	0.04	0.08	0.029	0.06	8.9	6.5	1.41	371	2.34	0.02
DD019568		0.91	21.7	1.99	2.62	0.05	0.05	0.09	0.025	0.10	7.0	7.6	2.79	432	2.47	0.02

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 Account: RCM

Project: ATAC Regional  
**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020919	0.05	0.45	21.8	330	22.1	13.1	<0.001	0.04	0.99	4.8	0.7	0.4	63.6	<0.01	0.04	3.1
DD020920	0.05	0.42	24.6	490	21.4	9.9	<0.001	0.03	0.80	5.0	0.7	0.4	61.0	<0.01	0.03	3.2
DD020921	0.05	0.76	30.4	440	27.8	13.6	<0.001	0.04	0.89	5.4	0.9	0.6	31.2	<0.01	0.06	2.7
DD020922	0.05	1.11	26.2	280	28.0	12.2	<0.001	0.04	0.89	5.4	0.7	0.6	20.6	<0.01	0.06	4.0
DD020923	0.05	0.61	23.2	490	33.2	16.7	<0.001	0.05	1.55	5.8	1.0	0.5	34.0	0.01	0.05	3.0
DD020924	0.05	0.43	19.2	610	28.3	9.4	<0.001	0.04	0.79	4.3	0.7	0.4	62.3	<0.01	0.03	2.1
DD020925	0.05	0.84	26.2	500	35.2	14.9	<0.001	0.06	1.33	6.5	0.9	0.7	33.1	0.01	0.07	3.9
DD020926	0.05	0.63	27.0	410	37.5	13.4	<0.001	0.04	1.05	6.6	0.8	0.6	31.0	0.01	0.05	4.0
DD020927	0.05	0.48	13.6	640	7.3	4.6	0.001	0.03	0.75	1.7	0.6	0.2	74.9	<0.01	0.02	0.9
DD020928	0.05	0.29	6.8	560	7.3	3.9	0.001	0.04	0.77	1.1	0.6	<0.2	104.5	<0.01	0.03	0.5
DD020929	0.05	0.29	10.5	540	9.1	4.8	0.001	0.05	0.59	1.5	0.6	0.2	113.0	<0.01	0.03	0.6
DD020930	0.05	0.45	20.4	1130	11.9	8.7	<0.001	0.10	0.66	2.1	1.0	0.4	97.9	0.01	0.05	0.9
DD020973	0.05	1.42	53.0	1200	22.5	15.0	0.001	0.04	1.70	4.4	1.4	0.7	41.3	<0.01	0.05	3.0
DD020974	0.05	1.41	56.1	1200	22.4	15.1	0.001	0.04	2.11	4.6	1.6	0.7	52.2	<0.01	0.06	3.4
DD020975	0.05	1.31	62.9	1340	20.3	18.3	0.001	0.05	1.87	4.2	2.2	0.7	53.5	<0.01	0.06	2.6
DD020976	0.05	1.31	55.4	1420	18.6	14.4	0.001	0.04	2.34	3.8	1.7	0.6	51.6	<0.01	0.05	2.8
DD020977	0.05	1.35	67.5	1340	17.9	14.7	0.001	0.08	2.17	3.9	2.2	0.9	52.2	<0.01	0.06	2.3
DD020978	0.05	3.10	60.7	2000	18.1	15.3	0.003	0.09	0.65	3.6	1.2	0.7	104.0	0.01	0.03	1.6
DD020979	0.05	2.76	57.2	1390	17.1	16.8	0.001	0.08	0.97	3.8	1.2	0.8	51.8	0.01	0.04	1.4
DD020980	0.05	0.80	48.5	1310	17.5	6.0	0.002	0.09	0.97	2.7	1.5	0.5	42.4	<0.01	0.04	1.5
DD020981	0.05	1.27	55.0	1230	19.0	11.3	0.001	0.09	2.08	2.9	1.8	0.7	47.3	<0.01	0.05	1.5
DD020982	0.05	1.23	51.3	1340	16.8	9.9	0.001	0.09	1.87	2.6	1.9	0.7	39.7	<0.01	0.04	1.3
DD019551	0.05	1.03	120.5	860	19.8	5.6	0.008	0.17	2.72	3.8	4.3	0.7	44.2	<0.01	0.03	1.9
DD019553	0.05	0.92	249	1150	20.8	8.3	0.004	0.09	4.14	3.7	3.3	0.7	62.2	<0.01	0.04	2.1
DD019554	0.05	1.09	172.0	990	12.0	6.2	0.006	0.13	2.72	4.1	3.6	0.6	63.5	<0.01	0.04	0.7
DD019555	0.05	0.95	88.2	1160	21.4	14.4	0.002	0.06	2.16	3.3	1.6	0.6	58.2	<0.01	0.07	2.6
DD019556	0.05	0.72	79.3	1080	21.3	10.1	0.003	0.08	1.77	2.5	2.3	0.5	50.0	<0.01	0.05	1.5
DD019557	0.05	0.84	106.0	990	18.2	9.2	0.004	0.09	1.91	3.6	1.9	0.6	51.0	<0.01	0.04	1.4
DD019558	0.05	0.89	108.5	930	14.0	9.0	0.008	0.12	1.99	2.7	2.8	0.6	57.4	<0.01	0.05	1.1
DD019559	0.05	1.19	109.5	1140	14.5	8.5	0.009	0.10	2.05	3.0	3.0	0.6	52.1	<0.01	0.05	1.2
DD019560	0.05	1.05	77.2	940	15.0	12.6	0.006	0.12	1.45	2.7	3.4	0.7	59.7	<0.01	0.04	1.0
DD019561	0.05	0.58	30.8	1000	24.5	11.4	0.003	0.08	1.52	2.2	2.0	0.4	58.2	<0.01	0.06	1.6
DD019562	0.05	0.75	35.1	940	19.2	11.7	0.013	0.16	1.80	1.4	2.7	0.5	48.6	<0.01	0.06	0.7
DD019563	0.05	0.79	53.1	1050	23.0	12.1	0.010	0.10	1.91	2.1	2.6	0.6	45.8	<0.01	0.03	1.3
DD019564	0.05	1.02	93.7	1170	23.7	16.7	0.014	0.15	2.19	2.5	5.5	0.9	98.0	<0.01	0.05	1.3
DD019565	0.05	0.87	50.2	800	21.0	10.2	0.015	0.17	1.41	2.1	4.1	0.7	81.0	<0.01	0.03	1.2
DD019566	0.05	1.24	55.2	960	30.4	15.8	0.004	0.08	1.73	3.1	2.1	1.0	52.2	<0.01	0.05	1.9
DD019567	0.05	0.44	32.9	740	33.8	5.9	0.003	0.08	4.57	1.9	2.0	0.3	31.8	<0.01	0.03	1.6
DD019568	0.05	0.74	54.4	1010	19.4	8.8	0.008	0.12	1.26	1.9	3.0	0.5	79.7	<0.01	0.04	1.2

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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12133730**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020919		0.006	0.30	0.98	28	0.12	10.40	126	2.0
DD020920		0.008	0.30	0.79	25	0.09	11.35	78	2.3
DD020921		0.015	0.21	0.86	41	0.16	12.55	108	2.4
DD020922		0.021	0.21	2.72	50	0.20	10.90	109	2.5
DD020923		0.010	0.53	0.92	39	0.13	13.40	265	2.6
DD020924		0.008	0.29	1.02	24	0.10	9.95	106	2.5
DD020925		0.011	0.30	0.87	53	0.16	14.80	129	3.0
DD020926		0.009	0.27	0.81	37	0.16	15.15	114	3.7
DD020927		0.019	0.11	0.99	24	0.23	6.43	65	0.9
DD020928		0.007	0.15	1.51	15	0.07	4.06	53	1.2
DD020929		0.007	0.25	1.27	14	0.08	4.68	49	1.5
DD020930		0.010	0.75	1.62	26	0.11	8.45	96	2.1
DD020973		0.041	0.28	1.16	58	2.14	10.15	219	2.4
DD020974		0.041	0.29	1.03	60	0.57	10.65	211	3.1
DD020975		0.040	0.36	1.48	55	0.86	11.20	263	2.6
DD020976		0.040	0.31	1.21	49	0.83	9.70	208	3.0
DD020977		0.041	0.33	1.89	56	0.80	11.00	237	2.4
DD020978		0.125	0.19	0.91	55	1.62	7.85	257	1.5
DD020979		0.104	0.23	1.05	60	2.24	7.09	178	1.4
DD020980		0.042	0.23	1.54	51	0.39	9.15	183	1.3
DD020981		0.039	0.28	1.51	71	0.89	8.68	231	1.9
DD020982		0.037	0.26	2.22	70	0.97	8.45	221	1.6
DD019551		0.058	0.31	5.89	83	0.48	9.44	724	2.1
DD019553		0.042	0.48	1.69	57	0.93	8.40	1500	2.0
DD019554		0.054	0.60	5.90	61	0.40	5.81	1200	1.1
DD019555		0.036	0.27	1.34	56	0.98	9.32	464	2.5
DD019556		0.028	0.21	1.61	50	0.78	8.42	514	1.6
DD019557		0.040	0.26	2.62	64	0.59	8.10	433	1.4
DD019558		0.043	0.28	2.77	66	0.48	7.05	546	1.2
DD019559		0.052	0.31	5.04	81	0.58	8.00	578	1.2
DD019560		0.042	0.26	3.79	74	0.94	6.27	491	1.1
DD019561		0.028	0.18	1.41	40	0.70	7.93	204	1.5
DD019562		0.025	0.23	1.67	45	0.51	5.73	339	1.4
DD019563		0.027	0.37	1.79	50	0.83	6.82	517	1.5
DD019564		0.035	0.65	8.88	75	1.98	8.47	505	2.1
DD019565		0.026	0.25	1.67	52	0.98	6.35	346	1.8
DD019566		0.041	0.36	1.15	58	3.07	9.38	291	1.9
DD019567		0.015	0.13	1.07	33	0.25	7.72	206	1.5
DD019568		0.025	0.19	1.64	44	0.45	6.67	506	1.6



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Project: ATAC Regional

**CERTIFICATE OF ANALYSIS WH12133730**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12133731**

Project: ATAC- Regional  
 P.O. No.: J  
 This report is for 211 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
DD019570		0.11	0.004		0.35	0.39	22.0	<0.2	<10	190	0.27	0.59	3.09	2.16	11.45	7.0
DD019571		0.28	0.011		0.43	0.77	16.9	<0.2	<10	400	0.29	1.28	8.28	1.32	14.35	8.3
DD019572		0.31	0.014		0.39	1.15	21.0	<0.2	<10	500	0.47	1.48	4.42	1.33	18.20	9.4
DD019573		0.54	0.004		0.30	1.46	23.4	<0.2	<10	680	0.55	1.12	6.26	1.84	19.10	10.5
DD019574		0.25	0.004		0.36	1.41	25.7	<0.2	<10	510	0.57	1.37	2.79	1.01	20.8	11.1
DD019575		0.37	0.012		0.49	1.38	40.2	<0.2	<10	490	0.57	3.12	7.34	1.72	19.30	10.5
DD019576		0.22	0.005		0.38	0.90	17.6	<0.2	<10	520	0.38	1.07	5.42	1.70	12.25	7.2
DD019577		0.19	0.007		0.31	0.79	15.4	<0.2	<10	500	0.34	0.81	3.66	1.32	10.85	8.2
DD019578		0.21	0.006		0.43	1.03	21.2	<0.2	<10	470	0.42	1.46	5.37	1.92	14.45	8.9
DD019579		0.29	0.011		0.37	1.15	21.9	<0.2	<10	410	0.49	1.59	5.44	1.07	17.40	9.1
DD019580		0.18	0.003		0.24	1.08	16.0	<0.2	<10	540	0.38	0.85	4.62	0.77	14.80	8.7
DD018791		0.16	0.010		0.31	1.20	48.8	<0.2	<10	380	0.39	1.22	3.00	0.89	21.1	12.2
DD018792		0.20	0.015		0.31	1.67	69.7	<0.2	<10	600	0.63	1.19	1.52	0.57	29.1	19.6
DD018793		0.14	0.009		0.31	1.25	54.9	<0.2	<10	420	0.50	1.04	2.04	1.04	18.45	9.8
DD018794		0.25	0.010		0.28	1.32	40.4	<0.2	<10	330	0.57	1.24	0.93	0.91	28.1	12.3
DD018795		0.26	0.022		0.32	1.24	32.9	<0.2	<10	310	0.53	1.33	2.60	1.18	22.5	11.7
DD018796		0.21	0.011		0.30	1.54	31.4	<0.2	<10	450	0.71	1.01	1.69	1.42	24.8	11.5
DD018797		0.22	0.035		0.31	1.21	23.9	<0.2	<10	190	0.50	1.06	5.09	1.67	18.25	8.3
DD018798		0.25	0.008		0.26	1.13	23.5	<0.2	<10	280	0.46	0.97	2.13	1.19	23.9	9.8
DD018799		0.18	0.007		0.27	1.00	28.1	<0.2	<10	160	0.42	3.22	4.23	1.25	21.3	9.8
DD018800		0.24	0.005		0.40	1.80	28.7	<0.2	<10	330	0.59	1.57	4.87	1.14	17.25	13.2
DD018801		0.28	2.36	0.977	6.60	0.01	3690	<0.2	<10	10	0.16	237	4.00	0.09	1.62	1.2
DD018802		0.18	0.012		0.60	0.29	54.6	<0.2	<10	90	0.80	1.42	4.70	21.4	15.65	18.2
DD018803		0.18	0.010		0.62	0.76	43.8	<0.2	<10	300	1.12	1.64	4.68	14.50	16.95	13.4
DD018804		0.17	0.102		1.00	0.42	225	<0.2	<10	120	1.62	11.35	3.90	0.96	16.55	64.3
DD018805		0.18	0.005		0.27	1.60	25.2	<0.2	<10	220	0.54	1.38	1.94	1.18	15.60	12.7
DD018806		0.17	0.005		0.14	2.43	21.1	<0.2	<10	300	0.80	2.08	0.88	1.90	20.3	17.7
DD018807		0.12	0.006		0.33	1.32	14.7	<0.2	<10	490	0.49	0.91	3.98	1.23	10.40	6.2
DD018808		0.10	0.006		0.20	0.95	9.1	<0.2	<10	520	0.46	0.60	2.11	2.98	11.85	5.4
DD018809		0.23	0.003		0.13	3.12	26.0	<0.2	<10	230	1.43	1.07	0.50	0.76	41.5	16.7
DD018810		0.11	0.007		0.38	1.45	14.0	<0.2	<10	350	0.61	0.75	1.85	2.28	18.35	8.2
DD018811		0.16	0.002		0.08	2.62	31.2	<0.2	<10	220	1.22	1.87	0.53	0.95	27.8	14.4
DD018812		0.25	0.020		0.36	1.47	60.3	<0.2	<10	190	0.70	1.10	0.75	0.86	30.4	13.3
DD018813		0.19	0.027		0.20	1.36	84.9	<0.2	<10	260	0.66	1.29	0.70	1.46	33.1	12.9
DD018814		0.15	0.014		0.27	0.81	40.2	<0.2	<10	350	0.34	0.81	2.73	5.43	15.00	9.1
DD018815		0.19	0.214		0.18	0.72	58.8	<0.2	<10	190	0.30	1.01	1.66	1.24	18.40	6.1
DD018816		0.26	0.016		0.36	1.07	64.8	<0.2	<10	290	0.47	1.09	2.08	0.95	25.0	11.4
DD018817		0.17	0.015		0.10	1.48	52.5	<0.2	<10	230	0.64	0.69	0.75	0.73	25.6	11.6
DD018818		0.24	0.006		0.34	1.13	34.6	<0.2	<10	390	0.47	0.98	2.93	1.80	26.5	10.8
DD018819		0.28	0.012		0.41	1.29	32.5	<0.2	<10	450	0.49	1.06	2.76	1.27	24.2	9.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
Units		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD019570		7	0.51	20.2	2.03	0.92	<0.05	0.05	0.07	0.028	0.07	5.7	4.1	1.31	304	1.09
DD019571		15	0.96	25.6	1.74	2.07	<0.05	0.04	0.04	0.021	0.10	7.1	9.0	4.85	476	2.31
DD019572		22	1.31	34.4	2.22	3.57	0.07	0.06	0.08	0.033	0.12	9.7	11.8	2.36	413	4.33
DD019573		31	1.97	33.8	2.48	4.49	0.09	0.09	0.08	0.035	0.18	10.1	15.7	3.05	463	4.46
DD019574		31	1.52	34.9	2.75	4.31	0.09	0.07	0.07	0.042	0.16	11.0	15.3	1.58	370	3.47
DD019575		28	2.43	41.4	2.48	4.14	0.08	0.07	0.08	0.068	0.20	10.6	14.1	3.02	466	6.35
DD019576		19	1.50	35.9	1.71	2.71	0.07	0.06	0.07	0.029	0.13	6.6	10.3	2.34	370	2.49
DD019577		15	0.83	28.7	1.50	2.33	0.06	0.04	0.07	0.020	0.05	5.4	7.8	0.65	533	2.22
DD019578		21	1.33	33.3	2.00	3.09	0.07	0.06	0.08	0.040	0.12	7.7	11.5	2.88	423	2.54
DD019579		24	1.72	28.6	2.18	3.44	0.07	0.06	0.06	0.038	0.15	9.5	12.5	2.84	391	2.54
DD019580		22	1.31	16.3	1.97	3.23	0.07	0.06	0.07	0.024	0.16	7.6	11.8	2.03	386	0.94
DD018791		25	1.27	42.6	2.85	3.59	0.07	0.07	0.07	0.034	0.15	11.7	10.8	1.38	466	4.38
DD018792		47	1.39	47.9	3.98	5.28	0.13	0.06	0.05	0.039	0.15	15.2	15.4	0.91	537	3.39
DD018793		22	1.17	41.5	2.84	3.53	0.08	0.07	0.08	0.032	0.10	9.9	13.0	0.60	373	2.65
DD018794		26	1.03	45.7	3.27	4.06	0.10	0.07	0.07	0.034	0.10	14.7	15.8	0.67	462	3.14
DD018795		27	1.52	33.7	2.69	3.87	0.09	0.06	0.07	0.039	0.11	11.8	13.8	1.61	544	3.45
DD018796		32	1.13	42.7	3.02	4.56	0.09	0.06	0.11	0.039	0.10	13.1	14.5	0.96	542	4.15
DD018797		28	2.52	37.1	2.25	3.71	0.09	0.06	0.10	0.035	0.10	9.9	13.6	2.59	345	3.65
DD018798		24	1.27	25.8	2.29	3.44	0.08	0.06	0.05	0.034	0.10	12.5	12.7	1.29	390	2.60
DD018799		24	1.91	22.2	2.50	3.11	0.09	0.06	0.05	0.042	0.06	11.0	12.9	2.81	479	3.58
DD018800		52	5.25	39.7	3.01	5.99	0.10	0.06	0.09	0.034	0.14	9.4	22.2	2.76	408	4.00
DD018801		2	0.11	5.2	16.10	0.18	0.35	0.04	0.13	0.018	0.32	1.5	0.5	2.18	708	42.7
DD018802		15	1.74	104.0	3.62	1.10	0.13	0.09	0.88	0.037	0.06	9.6	2.8	0.60	534	132.0
DD018803		28	3.28	128.0	2.83	2.57	0.12	0.06	0.36	0.041	0.09	9.7	10.1	1.90	443	52.7
DD018804		18	4.04	55.6	4.74	1.43	0.18	0.06	0.19	0.035	0.06	10.8	3.4	0.51	2630	128.5
DD018805		47	4.77	26.2	3.05	4.83	0.09	0.04	0.06	0.035	0.07	8.6	15.2	1.43	782	5.45
DD018806		74	4.12	28.0	3.72	7.33	0.10	0.03	0.05	0.042	0.04	11.9	25.0	1.36	428	2.79
DD018807		29	3.25	21.7	1.95	4.33	0.05	0.03	0.07	0.028	0.05	5.5	15.5	1.38	425	2.70
DD018808		21	1.88	17.5	1.59	3.31	0.05	<0.02	0.05	0.019	0.04	6.2	9.5	0.41	215	1.65
DD018809		68	5.02	40.3	3.94	7.92	0.13	0.12	0.05	0.050	0.06	18.8	27.8	1.29	515	3.60
DD018810		27	2.41	20.3	2.36	4.96	0.07	0.02	0.05	0.027	0.04	9.9	12.3	0.78	549	2.38
DD018811		59	4.92	22.0	3.84	7.97	0.11	0.05	0.04	0.059	0.05	13.3	26.4	1.16	459	4.15
DD018812		26	1.39	39.5	3.83	4.26	0.12	0.05	0.06	0.040	0.06	17.6	16.7	0.78	451	3.86
DD018813		22	1.12	64.8	4.35	3.75	0.13	0.07	0.09	0.047	0.06	19.2	16.6	0.61	403	6.46
DD018814		15	0.96	34.1	2.22	2.31	0.08	0.06	0.06	0.025	0.07	7.8	8.6	0.48	342	0.97
DD018815		14	0.41	25.4	2.45	2.38	0.08	0.03	0.04	0.026	0.06	9.5	8.6	0.41	147	3.99
DD018816		19	0.87	50.3	3.17	3.18	0.10	0.05	0.07	0.033	0.08	13.2	12.0	0.96	410	2.91
DD018817		23	0.68	37.0	3.35	4.54	0.09	0.04	0.03	0.034	0.04	13.2	12.1	0.48	518	2.36
DD018818		22	1.05	38.9	2.97	3.11	0.06	0.08	0.09	0.037	0.15	13.4	14.0	1.63	519	5.92
DD018819		27	1.37	36.2	2.94	3.58	0.05	0.08	0.10	0.039	0.16	12.3	13.1	1.53	453	5.18

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
DD019570		0.01	0.26	19.6	700	78.6	7.8	0.009	0.08	3.08	1.4	0.7	0.3	37.9	<0.01	0.05
DD019571		0.02	0.70	24.6	960	19.3	8.3	<0.001	0.04	1.67	1.8	1.3	0.4	57.4	<0.01	0.06
DD019572		0.02	1.18	32.4	940	22.4	13.4	0.001	0.06	2.23	2.3	2.2	0.8	48.6	<0.01	0.06
DD019573		0.04	1.35	39.7	1120	21.6	17.4	0.001	0.04	2.04	3.7	1.4	0.9	84.5	<0.01	0.05
DD019574		0.02	1.30	41.8	760	24.9	16.0	0.003	0.05	1.93	3.3	5.9	1.0	48.6	<0.01	0.06
DD019575		0.02	1.47	42.5	1000	35.3	23.5	0.001	0.04	2.57	3.2	1.7	2.4	87.0	<0.01	0.06
DD019576		0.01	1.01	30.1	1000	16.4	13.5	0.004	0.12	1.89	1.8	2.9	0.7	71.4	<0.01	0.05
DD019577		0.01	0.69	26.1	970	11.6	7.3	0.002	0.15	1.66	1.1	3.0	0.4	61.2	0.01	0.06
DD019578		0.02	1.02	32.4	930	20.0	13.9	0.001	0.07	2.04	2.1	2.0	0.7	56.3	<0.01	0.06
DD019579		0.02	1.28	29.7	870	23.3	16.1	0.001	0.04	1.69	2.8	1.3	0.9	59.9	<0.01	0.05
DD019580		0.01	0.97	21.4	1070	15.1	14.4	0.002	0.09	0.91	2.2	1.8	0.5	61.1	0.01	0.05
DD018791		0.02	1.33	43.3	1180	17.8	14.8	0.002	0.05	1.61	2.8	1.7	0.7	54.8	<0.01	0.05
DD018792		0.02	2.35	54.9	1030	17.7	14.0	0.001	0.04	1.71	4.9	2.1	1.0	44.2	<0.01	0.08
DD018793		0.01	1.24	35.9	990	13.9	13.7	0.001	0.08	1.81	2.5	1.7	0.6	38.8	<0.01	0.07
DD018794		0.01	1.04	39.6	950	20.0	11.8	<0.001	0.03	1.82	3.8	1.3	0.9	25.6	<0.01	0.07
DD018795		0.02	1.08	36.8	1050	23.5	14.6	0.001	0.04	1.98	3.1	1.4	1.0	35.2	<0.01	0.06
DD018796		0.02	1.04	41.5	1180	19.0	11.8	<0.001	0.05	1.85	3.5	2.4	0.8	29.9	0.01	0.08
DD018797		0.03	1.15	32.4	1030	17.4	21.6	0.001	0.04	1.91	3.5	1.5	0.7	63.8	<0.01	0.05
DD018798		0.02	1.03	33.1	1090	18.2	13.3	0.001	0.04	1.48	2.6	1.2	0.9	34.1	<0.01	0.05
DD018799		0.02	0.98	32.5	1040	20.4	10.6	0.001	0.02	1.64	2.9	1.1	1.1	38.7	<0.01	0.05
DD018800		0.04	1.82	49.1	950	24.6	28.3	0.001	0.03	1.60	5.0	1.4	1.1	65.0	<0.01	0.07
DD018801		0.06	0.16	34.8	1030	14.5	8.3	0.041	1.91	12.90	0.7	38.0	1.0	148.5	<0.01	0.35
DD018802		0.01	0.45	358	840	23.8	6.5	0.002	0.14	7.02	2.0	8.9	0.7	122.0	0.01	0.16
DD018803		0.01	0.90	263	1050	19.7	13.9	0.002	0.08	7.77	2.5	5.9	0.9	85.6	0.01	0.11
DD018804		0.01	0.39	639	910	24.6	8.8	0.005	0.15	12.25	1.7	9.5	7.3	61.0	0.01	0.20
DD018805		0.04	1.36	92.4	800	19.1	14.3	0.001	0.06	1.30	4.0	1.3	0.7	29.0	<0.01	0.07
DD018806		0.04	1.93	67.7	590	29.9	10.9	<0.001	0.04	1.14	4.2	1.2	1.0	24.4	<0.01	0.07
DD018807		0.03	1.08	23.6	650	10.5	15.5	0.001	0.09	0.84	2.3	1.7	0.7	49.4	0.01	0.05
DD018808		0.02	1.00	17.6	580	12.6	11.3	<0.001	0.08	0.58	1.2	1.2	0.5	53.8	<0.01	0.04
DD018809		0.03	2.71	76.9	570	65.0	21.8	0.001	0.02	1.30	7.5	1.6	1.1	19.2	0.01	0.06
DD018810		0.02	1.43	27.5	670	15.1	12.0	0.001	0.06	0.91	2.3	1.8	0.9	36.9	0.01	0.06
DD018811		0.02	2.67	58.8	300	29.9	21.6	0.001	0.02	1.41	5.5	1.3	1.4	13.9	0.01	0.07
DD018812		0.01	1.77	48.2	940	16.4	11.6	<0.001	0.04	1.83	3.9	1.8	0.8	22.8	0.01	0.08
DD018813		0.01	2.40	68.4	1090	15.9	11.4	0.003	0.04	2.39	4.4	2.5	0.8	23.0	0.01	0.07
DD018814		0.01	1.28	36.7	990	10.2	12.6	0.008	0.14	1.15	1.9	3.4	0.5	54.5	<0.01	0.06
DD018815		0.01	1.06	21.2	600	13.5	6.4	0.010	0.10	1.37	1.6	3.2	0.4	38.8	<0.01	0.05
DD018816		0.01	1.29	36.5	1190	14.4	10.3	0.001	0.06	1.89	2.7	1.7	0.6	38.4	0.01	0.07
DD018817		0.01	1.43	30.0	530	19.1	7.9	<0.001	0.04	1.28	3.1	1.2	0.7	20.0	<0.01	0.06
DD018818		0.01	0.97	42.6	1250	19.4	11.9	0.002	0.03	2.59	3.0	2.5	0.6	44.8	<0.01	0.06
DD018819		0.01	1.17	39.0	1010	22.7	12.4	0.003	0.03	2.66	3.4	2.8	1.0	47.2	<0.01	0.06

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		Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019570		1.4	0.005	0.17	1.75	11	0.17	5.45	461	1.6
DD019571		1.4	0.023	0.15	1.30	33	0.78	6.89	155	1.6
DD019572		1.1	0.027	0.20	2.04	48	1.49	8.78	144	1.9
DD019573		2.7	0.051	0.32	1.10	66	1.50	9.29	190	3.5
DD019574		1.9	0.034	0.23	2.07	66	2.79	9.60	153	2.4
DD019575		2.3	0.040	0.38	0.93	64	3.93	9.62	222	2.9
DD019576		0.7	0.023	0.24	3.07	35	1.30	6.69	180	2.0
DD019577		0.3	0.017	0.13	2.75	32	0.58	6.15	100	1.5
DD019578		0.9	0.024	0.19	1.50	43	2.34	8.07	197	2.1
DD019579		1.9	0.032	0.25	0.94	46	4.24	8.28	171	2.5
DD019580		1.1	0.026	0.18	2.00	40	0.47	5.91	192	2.1
DD018791		2.4	0.022	0.19	1.82	42	0.54	7.90	152	2.9
DD018792		2.1	0.034	0.16	2.80	58	0.17	10.75	137	2.2
DD018793		1.0	0.020	0.17	1.76	38	0.37	7.18	150	2.2
DD018794		2.9	0.027	0.17	0.90	46	1.08	9.75	149	2.3
DD018795		2.2	0.034	0.23	0.91	52	0.99	8.87	169	1.9
DD018796		1.5	0.029	0.15	2.74	56	5.84	10.80	151	1.7
DD018797		2.1	0.044	0.36	0.97	52	1.65	9.73	140	1.9
DD018798		2.2	0.031	0.18	0.69	47	2.00	8.11	159	1.8
DD018799		2.5	0.036	0.26	0.95	42	10.90	8.28	161	1.8
DD018800		2.4	0.079	0.43	1.04	67	1.18	9.77	183	2.1
DD018801		<0.2	<0.005	1.20	3.54	25	3.05	7.25	129	5.8
DD018802		2.8	0.007	1.87	16.50	44	1.50	20.1	1580	5.1
DD018803		2.4	0.026	1.01	5.60	54	2.71	15.55	1520	3.6
DD018804		1.0	0.010	2.67	10.10	47	2.22	28.1	740	5.3
DD018805		1.6	0.076	0.39	1.05	52	2.12	8.84	444	1.3
DD018806		1.6	0.084	0.34	0.94	75	0.83	9.01	162	0.8
DD018807		0.6	0.044	0.19	2.93	42	0.96	4.64	110	1.1
DD018808		<0.2	0.028	0.13	1.61	41	0.57	4.57	66	<0.5
DD018809		5.3	0.079	0.44	1.44	102	0.91	17.40	178	4.3
DD018810		0.6	0.038	0.21	0.77	62	0.74	8.12	157	0.5
DD018811		3.0	0.070	0.40	1.07	96	4.55	10.45	174	1.6
DD018812		2.8	0.031	0.19	1.66	46	0.94	13.15	186	1.6
DD018813		3.7	0.031	0.21	1.87	46	0.35	17.20	225	2.3
DD018814		1.1	0.019	0.25	1.97	27	0.09	5.06	318	2.2
DD018815		1.0	0.016	0.12	2.45	28	0.16	4.11	120	1.2
DD018816		1.4	0.026	0.15	1.36	36	0.18	9.51	112	1.4
DD018817		1.4	0.024	0.13	1.15	47	0.38	7.59	92	0.9
DD018818		2.6	0.024	0.21	1.55	41	0.21	9.29	194	3.0
DD018819		2.5	0.034	0.26	1.49	52	0.33	8.56	167	2.8



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**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Au Check	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co
Units		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
DD018820		0.16	0.005		0.35	1.25	24.3	<0.2	<10	300	0.54	0.57	1.52	1.26	26.0	10.3
DD018821		0.14	0.010		0.30	1.29	28.2	<0.2	<10	360	0.50	0.65	2.12	1.14	21.9	10.1
DD018822		0.17	0.007		0.31	1.21	22.8	<0.2	<10	350	0.41	1.33	2.80	1.23	19.05	9.6
DD018823		0.12	0.023		0.42	1.32	24.9	<0.2	<10	360	0.51	1.64	2.35	1.48	21.2	10.4
DD018824		0.23	0.007		0.34	1.28	25.7	<0.2	<10	410	0.50	1.32	1.97	1.23	22.4	9.6
DD018825		0.17	0.007		0.28	0.87	20.5	<0.2	<10	310	0.32	0.87	2.90	1.28	14.40	7.3
DD018826		0.28	0.024		0.32	1.40	31	<0.2	<10	5890	0.40	3.83	13.15	1.70	14.05	10.8
DD018827		0.19	0.003		2.09	0.92	6.6	<0.2	<10	40	0.17	5.97	0.10	0.22	1.51	3.4
DD018828		0.14	0.012		0.28	0.65	9.1	<0.2	<10	570	0.33	0.73	2.76	17.70	9.08	6.3
DD018829		0.18	0.009		0.38	2.51	43.2	<0.2	<10	610	1.12	1.10	0.38	13.70	33.4	14.6
DD018830		0.19	0.006		2.10	1.44	89.2	<0.2	<10	290	1.06	0.91	0.62	30.3	38.2	11.2
DD018711		0.14	0.007		0.29	1.06	16.0	<0.2	<10	490	0.39	1.42	3.43	1.20	13.80	9.9
DD018712		0.18	0.006		0.18	1.12	17.6	<0.2	<10	530	0.38	1.23	3.99	0.60	18.40	9.4
DD018713		0.13	0.008		0.23	1.12	14.6	<0.2	<10	420	0.36	1.12	2.93	0.75	15.65	6.3
DD018714		0.11	0.006		0.29	1.23	18.7	<0.2	<10	440	0.47	1.80	3.42	0.86	17.40	10.0
DD018715		0.19	0.001		0.08	1.67	11.4	<0.2	<10	270	0.36	0.59	0.64	0.69	17.20	7.4
DD018716		0.14	0.008		0.23	0.40	25	<0.2	<10	210	0.17	2.40	11.95	0.89	9.31	4.3
DD018717		0.13	0.017		0.21	0.31	29	<0.2	<10	180	0.13	2.27	12.25	1.28	7.63	3.3
DD018718		0.18	0.007		0.27	0.49	25	<0.2	<10	230	0.23	6.06	11.45	0.93	9.99	4.7
DD018719		0.11	0.006		0.25	0.49	22	<0.2	<10	220	0.21	1.81	11.55	1.16	9.43	4.7
DD018720		0.16	0.032		0.08	1.81	17.5	<0.2	<10	200	0.66	1.47	2.32	0.60	18.85	9.4
DD018721		0.11	0.007		0.20	0.87	20.6	<0.2	<10	390	0.36	1.00	2.87	1.84	14.60	12.4
DD018722		0.14	0.003		0.12	0.53	14.4	<0.2	<10	140	0.32	0.40	6.41	0.71	16.75	10.1
DD018723		0.18	0.008		0.25	1.46	22.8	<0.2	<10	450	0.52	2.18	2.05	0.73	18.95	12.2
DD018724		0.13	0.004		0.21	1.55	21.8	<0.2	<10	440	0.58	1.78	2.50	0.89	17.05	19.0
DD018725		0.10	0.004		0.17	1.04	12.8	<0.2	<10	230	0.59	0.33	3.31	0.49	13.20	29.0
DD018726		0.23	0.004		0.12	1.11	9.5	<0.2	<10	260	0.77	0.29	3.83	0.34	20.1	44.0
DD018727		0.16	0.006		0.04	0.86	4.7	<0.2	<10	210	0.51	0.06	3.42	0.15	12.50	28.1
DD018728		0.09	0.007		0.05	0.67	7.2	<0.2	<10	180	0.27	0.16	2.13	0.33	5.18	9.1
DD018729		0.10	0.037		0.04	1.53	7.7	<0.2	<10	360	0.69	0.31	3.51	0.46	18.75	36.9
DD018730		0.25	<0.001		0.15	2.37	19.1	<0.2	<10	190	0.86	1.26	5.74	0.19	4.80	179.0
DD018731		0.21	0.004		0.03	4.14	11.7	<0.2	<10	990	1.60	0.50	1.07	0.30	17.15	43.1
DD018732		0.10	0.024		0.20	1.26	19.4	<0.2	<10	650	0.35	1.64	2.52	1.10	15.70	11.5
DD018733		0.11	0.007		0.30	1.04	25.7	<0.2	<10	820	0.39	0.93	2.10	1.37	15.70	10.7
DD018734		0.27	0.012		0.32	0.98	27.5	<0.2	<10	980	0.40	1.01	3.53	1.78	17.90	12.0
DD018735		0.14	0.007		0.27	1.06	27.6	<0.2	<10	860	0.42	1.25	3.02	1.49	19.50	10.8
DD018736		0.13	0.008		0.16	0.68	13.5	<0.2	<10	1040	0.24	0.61	3.41	2.58	7.73	5.1
DD018737		0.12	0.012		0.20	0.95	17.4	<0.2	<10	1170	0.41	1.26	2.73	1.13	11.75	7.2
DD018738		0.16	0.008		0.21	1.16	20.4	<0.2	<10	1080	0.43	1.37	1.75	0.98	16.80	9.1
DD018739		0.13	0.007		0.23	1.11	26.2	<0.2	<10	1340	0.47	1.42	2.13	1.44	18.00	9.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD018820		26	0.86	26.8	3.01	3.53	0.06	0.07	0.10	0.033	0.13	12.8	17.1	0.99	354	3.44
DD018821		28	0.97	33.2	2.94	3.49	<0.05	0.07	0.08	0.032	0.11	11.7	13.6	1.03	454	4.15
DD018822		28	2.27	28.2	2.59	3.10	0.05	0.04	0.09	0.031	0.11	9.6	12.6	1.44	452	2.27
DD018823		29	2.07	28.3	2.71	3.53	<0.05	0.04	0.10	0.043	0.11	10.6	14.3	1.08	502	2.22
DD018824		26	1.00	34.3	2.79	3.36	0.05	0.05	0.09	0.036	0.10	11.6	13.5	1.03	679	2.92
DD018825		18	0.91	27.3	2.04	2.24	0.05	0.05	0.10	0.024	0.10	7.2	9.6	1.02	414	2.94
DD018826		22	2.48	48.9	2.92	3.06	0.05	0.05	0.05	0.068	0.10	7.9	10.5	1.69	561	5.71
DD018827		19	3.52	646	17.35	3.14	0.08	0.04	0.04	0.023	0.50	0.5	7.0	0.55	45	7.78
DD018828		13	0.61	52.3	1.47	1.53	<0.05	0.06	0.11	0.017	0.05	4.9	5.7	0.48	1140	2.83
DD018829		41	2.19	52.8	3.94	5.81	0.07	0.05	0.20	0.052	0.11	17.5	25.8	0.72	485	11.95
DD018830		52	1.80	249	5.41	4.13	0.11	0.05	0.64	0.072	0.11	27.1	15.8	0.50	334	96.5
DD018711		23	1.12	24.7	2.18	2.84	<0.05	0.04	0.07	0.027	0.08	7.1	9.5	1.39	528	1.32
DD018712		23	1.08	16.9	2.27	3.10	0.05	0.03	0.05	0.024	0.10	9.2	10.8	2.30	428	0.80
DD018713		23	0.91	21.3	2.16	3.09	<0.05	0.04	0.06	0.025	0.09	7.8	10.6	1.22	208	0.80
DD018714		24	1.22	20.5	2.40	3.41	<0.05	0.04	0.07	0.031	0.10	8.8	11.6	1.53	521	1.45
DD018715		25	0.82	8.0	3.11	5.42	<0.05	0.02	0.03	0.028	0.04	8.4	13.9	0.42	320	1.20
DD018716		9	0.32	11.8	1.14	1.10	<0.05	0.03	0.03	0.029	0.03	4.7	4.3	7.65	469	0.61
DD018717		7	0.23	8.1	0.96	0.83	<0.05	0.02	0.03	0.027	0.03	3.7	3.4	7.84	478	0.57
DD018718		11	0.32	11.6	1.30	1.28	<0.05	0.02	0.05	0.039	0.03	4.9	5.0	7.21	463	0.61
DD018719		10	0.55	11.7	1.25	1.35	<0.05	0.02	0.05	0.031	0.04	4.7	5.3	7.29	374	0.58
DD018720		30	0.82	9.6	3.12	5.08	<0.05	0.03	0.03	0.040	0.03	8.9	13.1	1.34	314	1.55
DD018721		24	1.15	34.0	2.84	2.55	<0.05	0.04	0.08	0.024	0.05	7.0	7.8	1.08	630	1.41
DD018722		18	0.96	25.3	2.88	1.60	0.05	0.05	0.06	0.020	0.04	8.2	5.4	4.09	710	1.05
DD018723		33	1.21	18.5	3.09	4.02	0.05	0.04	0.06	0.038	0.11	9.4	13.8	0.94	546	1.80
DD018724		49	1.92	27.3	3.64	4.99	0.05	0.04	0.05	0.040	0.12	7.8	16.9	1.27	570	2.07
DD018725		51	1.26	33.4	4.17	3.99	0.08	0.02	0.06	0.036	0.17	5.2	13.0	1.08	599	1.55
DD018726		52	1.79	52.9	6.10	4.47	0.10	0.03	0.04	0.039	0.27	7.6	15.0	1.37	988	4.89
DD018727		40	0.95	33.3	5.13	3.81	0.08	<0.02	0.04	0.027	0.11	4.5	9.5	0.78	407	1.25
DD018728		30	0.78	14.2	1.89	2.90	0.06	0.02	0.05	0.017	0.12	2.3	10.7	0.69	141	2.95
DD018729		80	4.40	57.6	4.62	5.94	0.10	0.02	0.05	0.027	0.57	7.0	29.4	1.51	288	1.59
DD018730		103	4.86	422	16.40	9.08	0.20	<0.02	0.01	0.068	0.97	1.6	36.0	4.28	1080	3.49
DD018731		201	2.07	43.9	7.28	15.65	0.07	0.05	0.02	0.061	0.12	6.4	52.0	3.80	597	1.52
DD018732		29	1.18	25.0	2.64	3.51	<0.05	0.04	0.06	0.031	0.08	6.9	10.5	0.92	589	2.07
DD018733		27	0.93	36.4	2.67	2.90	<0.05	0.05	0.08	0.030	0.06	8.1	8.7	0.84	331	3.72
DD018734		25	1.29	41.4	2.73	2.95	<0.05	0.05	0.10	0.026	0.08	9.5	8.9	1.69	405	4.65
DD018735		26	1.44	35.5	2.56	3.19	0.05	0.04	0.08	0.027	0.09	10.5	10.4	1.63	381	4.14
DD018736		16	0.93	26.5	1.42	1.86	<0.05	0.03	0.07	0.016	0.04	4.4	5.1	0.54	239	2.23
DD018737		22	1.34	23.0	1.82	2.98	<0.05	0.04	0.07	0.026	0.07	6.5	9.5	0.68	248	1.92
DD018738		25	1.30	21.4	2.17	3.42	<0.05	0.03	0.04	0.026	0.08	8.8	11.4	0.80	369	1.60
DD018739		27	1.28	30.5	2.40	3.40	<0.05	0.05	0.06	0.033	0.09	9.5	11.3	0.94	309	4.09

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	Analyte Units LOR	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
DD018820		0.01	0.84	36.8	1000	21.7	9.3	0.002	0.03	1.71	3.7	3.1	0.6	39.0	<0.01	0.04
DD018821		0.01	1.07	35.6	860	21.5	8.3	0.002	0.05	2.34	3.2	2.9	0.8	46.3	<0.01	0.05
DD018822		0.01	0.86	37.4	890	28.4	19.2	0.001	0.07	1.58	2.5	1.3	1.0	34.9	<0.01	0.03
DD018823		0.02	0.94	38.4	910	35.7	19.5	0.001	0.07	1.80	2.6	1.6	1.3	36.7	<0.01	0.06
DD018824		0.01	0.86	36.1	970	27.8	10.4	0.002	0.05	1.77	2.6	1.5	0.9	35.0	<0.01	0.05
DD018825		0.01	0.71	28.1	870	17.9	10.1	0.002	0.08	1.55	1.9	1.5	0.6	42.7	<0.01	0.06
DD018826		0.03	0.94	50.9	750	33.0	17.9	0.002	0.06	1.64	2.8	1.3	1.0	314	<0.01	0.05
DD018827		0.01	0.30	13.1	360	4.4	46.4	0.002	2.64	0.94	3.6	8.1	0.9	12.2	<0.01	0.81
DD018828		0.01	0.45	79.7	970	8.8	6.3	0.007	0.16	1.07	1.2	8.3	0.3	51.8	<0.01	0.03
DD018829		0.01	1.18	112.5	1040	26.5	16.3	0.001	0.03	2.20	4.9	2.3	0.9	33.7	<0.01	0.10
DD018830		<0.01	0.67	419	2810	31.3	11.5	0.009	0.03	11.10	4.9	8.5	1.2	117.5	<0.01	0.28
DD018711		0.01	1.02	30.0	980	19.6	8.9	0.004	0.14	1.09	1.8	1.3	0.6	45.5	<0.01	0.05
DD018712		0.01	1.13	25.0	990	19.2	10.7	0.002	0.06	0.86	2.2	1.0	0.6	39.4	<0.01	0.03
DD018713		0.01	1.03	24.1	910	17.6	10.8	0.006	0.11	0.98	2.1	1.4	0.6	49.0	<0.01	0.04
DD018714		0.01	1.28	27.0	910	23.9	10.7	0.002	0.09	1.19	2.3	0.8	0.6	46.5	<0.01	0.04
DD018715		<0.01	1.25	12.5	320	17.3	7.6	<0.001	0.02	0.45	2.3	0.2	0.6	13.1	<0.01	0.04
DD018716		<0.01	0.34	12.2	580	60.4	3.7	<0.001	0.03	0.96	1.1	0.3	0.4	34.9	<0.01	0.04
DD018717		0.01	0.28	9.6	510	56.5	3.3	<0.001	0.03	0.86	0.9	0.4	0.4	33.5	<0.01	0.04
DD018718		0.01	0.39	13.8	630	66.4	3.9	<0.001	0.03	0.96	1.3	0.5	0.8	37.0	<0.01	0.03
DD018719		0.01	0.40	13.5	620	55.9	5.8	0.001	0.04	0.83	1.2	0.7	0.5	36.6	<0.01	0.05
DD018720		<0.01	1.22	19.3	390	26.9	7.8	<0.001	0.02	0.71	4.0	0.8	0.7	19.9	<0.01	0.05
DD018721		<0.01	0.83	38.6	980	25.2	6.8	0.002	0.11	1.48	2.0	1.4	0.4	37.8	<0.01	0.04
DD018722		0.01	0.59	25.4	1100	29.3	4.0	<0.001	0.03	1.46	2.2	1.0	0.2	63.2	<0.01	0.03
DD018723		0.01	1.34	34.7	710	26.2	11.5	0.001	0.08	1.09	2.6	0.9	0.9	34.2	<0.01	0.03
DD018724		0.01	1.92	58.8	810	23.1	13.9	0.001	0.09	1.22	3.5	1.0	0.8	49.0	0.01	0.03
DD018725		0.01	1.17	94.8	2020	13.6	16.0	<0.001	0.16	1.81	3.3	0.7	0.4	217	0.01	0.02
DD018726		<0.01	1.18	165.5	2590	8.6	21.7	<0.001	0.15	1.12	4.0	1.0	0.3	237	<0.01	0.02
DD018727		<0.01	0.26	115.5	1780	4.5	10.2	<0.001	0.16	0.45	2.4	1.0	0.2	227	<0.01	0.02
DD018728		0.01	0.39	39.2	1320	4.0	7.5	0.001	0.19	0.38	1.7	0.5	0.2	153.0	<0.01	0.01
DD018729		0.01	1.45	160.0	1890	5.2	56.1	0.001	0.19	0.52	4.0	1.3	0.5	104.5	<0.01	0.03
DD018730		<0.01	0.18	641	1870	8.9	55.2	0.001	0.99	0.48	8.0	1.7	0.5	265	<0.01	0.34
DD018731		0.01	7.66	152.0	1300	11.5	7.6	0.001	0.03	0.44	10.2	0.7	0.8	61.3	0.01	0.03
DD018732		0.01	1.11	31.9	870	19.1	8.3	0.001	0.09	1.04	2.1	0.8	0.7	37.7	<0.01	0.03
DD018733		0.01	1.05	49.4	1100	14.8	6.1	0.002	0.08	1.56	2.3	1.3	0.5	36.2	<0.01	0.05
DD018734		0.03	1.06	54.6	1240	17.6	10.0	0.002	0.07	1.76	2.8	1.7	0.6	55.1	<0.01	0.04
DD018735		0.02	1.12	48.1	1180	18.1	9.5	0.001	0.06	1.86	2.8	3.1	0.7	42.4	<0.01	0.05
DD018736		0.02	0.70	27.4	760	9.0	6.9	<0.001	0.13	1.15	1.0	0.9	0.4	47.2	<0.01	0.02
DD018737		0.02	1.11	29.7	720	14.7	8.7	<0.001	0.11	1.21	1.9	1.0	0.7	47.1	<0.01	0.04
DD018738		0.02	1.17	32.2	840	17.6	10.0	0.001	0.06	1.06	2.2	1.0	0.8	34.7	<0.01	0.03
DD018739		0.02	1.28	44.8	710	19.8	11.1	0.003	0.07	1.89	2.6	2.1	0.8	45.3	<0.01	0.07





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**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018820		3.1	0.029	0.18	0.89	45	0.24	8.76	180	2.2
DD018821		2.3	0.031	0.18	1.19	48	0.23	9.27	137	2.6
DD018822		1.4	0.036	0.26	0.79	45	1.37	7.08	216	1.3
DD018823		1.5	0.034	0.28	0.74	50	1.96	8.66	214	1.7
DD018824		1.6	0.027	0.18	0.93	48	2.06	8.80	158	1.7
DD018825		1.3	0.021	0.17	0.88	33	0.64	5.67	157	2.1
DD018826		1.8	0.031	0.32	1.16	45	4.90	10.55	289	2.8
DD018827		0.7	0.030	0.97	1.85	126	10.10	0.90	38	2.0
DD018828		0.7	0.014	0.14	0.85	27	0.32	7.07	788	1.9
DD018829		3.7	0.018	0.61	4.69	126	0.72	14.50	1340	1.8
DD018830		3.7	0.024	0.89	16.30	224	1.14	25.4	2930	3.0
DD018711		0.8	0.026	0.16	1.87	36	0.90	6.73	174	1.4
DD018712		1.6	0.031	0.12	1.43	40	1.26	6.48	160	1.3
DD018713		1.1	0.029	0.12	1.86	39	0.85	6.14	150	1.4
DD018714		1.1	0.030	0.15	0.83	41	1.35	6.88	186	1.6
DD018715		1.6	0.025	0.10	0.40	64	0.40	2.47	161	0.7
DD018716		0.7	0.014	0.06	0.73	20	0.60	3.42	238	0.7
DD018717		0.6	0.012	0.05	0.74	17	0.53	2.81	215	0.7
DD018718		0.7	0.016	0.07	0.75	23	0.68	3.82	281	0.8
DD018719		0.6	0.015	0.07	1.27	22	0.57	4.00	319	0.8
DD018720		1.6	0.022	0.12	0.77	65	0.47	6.69	120	0.9
DD018721		0.9	0.030	0.14	2.07	31	0.52	9.29	371	1.3
DD018722		3.0	0.027	0.09	0.71	20	0.28	10.70	317	1.5
DD018723		1.3	0.039	0.17	1.15	53	2.58	6.82	167	1.4
DD018724		1.3	0.069	0.19	0.68	60	1.77	6.40	207	1.7
DD018725		0.4	0.074	0.13	0.54	38	0.19	7.01	137	0.9
DD018726		0.6	0.072	0.17	1.41	47	0.29	10.50	99	1.6
DD018727		0.2	0.053	0.07	0.67	28	0.11	10.25	59	0.6
DD018728		0.4	0.029	0.05	0.29	23	0.12	2.68	46	0.9
DD018729		0.6	0.163	0.33	0.39	38	2.82	9.58	82	0.9
DD018730		0.2	0.211	1.29	1.21	81	0.07	8.40	224	<0.5
DD018731		1.3	0.435	0.14	0.54	140	0.51	7.58	117	1.7
DD018732		0.8	0.041	0.19	1.40	48	1.12	6.07	205	1.3
DD018733		1.2	0.031	0.26	2.39	56	0.56	8.14	211	1.9
DD018734		1.5	0.033	0.32	1.70	57	0.76	9.33	198	1.8
DD018735		1.3	0.031	0.24	1.11	60	0.64	8.90	213	1.9
DD018736		0.2	0.018	0.12	2.74	36	0.34	4.19	208	1.2
DD018737		0.6	0.027	0.18	1.79	46	0.60	4.81	202	1.5
DD018738		0.9	0.031	0.19	1.18	52	1.02	6.17	195	1.1
DD018739		1.2	0.032	0.23	1.97	60	0.93	7.58	204	1.8



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Sample Description	Method	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Au Check	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
DD018740		0.12	0.007		0.27	1.22	24.8	<0.2	<10	750	0.58	1.84	2.16	1.39	17.70	10.5
DD018741		0.16	0.006		0.26	1.06	20.5	<0.2	<10	880	0.39	1.13	1.90	1.38	13.90	9.0
DD018742		0.13	0.008		0.15	0.97	24.4	<0.2	<10	910	0.33	0.93	1.51	0.90	13.25	7.9
DD018743		0.15	0.011		0.26	1.07	25.2	<0.2	<10	1270	0.37	0.97	1.95	1.40	15.00	9.6
DD018744		0.15	0.007		0.41	1.29	32.7	<0.2	<10	1220	0.45	1.19	1.81	1.79	19.05	12.5
DD018745		0.21	0.006		0.37	1.52	30.7	<0.2	<10	1730	0.48	1.04	3.15	1.09	14.85	11.9
DD018746		0.23	0.007		0.39	1.42	37.1	<0.2	<10	1460	0.59	1.35	1.04	2.03	23.3	11.8
DD018747		0.22	0.010		0.30	1.10	37.7	<0.2	<10	310	0.40	1.31	6.38	1.24	21.3	11.2
DD018748		0.17	0.006		0.34	1.38	29.9	<0.2	<10	1140	0.53	1.18	2.19	2.08	15.50	11.8
DD018749		0.14	0.019		0.32	1.02	21.8	<0.2	<10	1390	0.42	0.95	2.38	2.58	13.65	9.6
DD018750		0.11	0.004		0.24	2.29	19.7	<0.2	<10	1530	0.55	0.69	3.18	1.76	12.00	15.0
DD020851		0.36	0.003		0.23	1.10	18.7	<0.2	<10	180	0.57	1.32	1.66	0.52	26.6	10.9
DD020852		0.44	0.004		0.27	1.33	20.8	<0.2	<10	310	0.90	3.50	7.50	0.61	16.60	9.0
DD020853		0.42	0.003		0.19	0.58	14	<0.2	<10	200	0.29	1.81	12.10	0.57	8.61	4.5
DD020854		0.42	0.004		0.35	0.87	22	<0.2	<10	760	0.39	4.30	11.35	1.25	12.30	7.0
DD020855		0.28	0.002		0.26	1.59	24.4	<0.2	<10	320	0.77	3.96	3.55	0.66	20.6	9.5
DD020856		0.40	0.003		0.20	0.53	12	<0.2	<10	130	0.28	1.52	13.55	0.39	7.25	3.7
DD020857		0.39	0.009		0.29	1.11	20.8	<0.2	<10	370	0.57	1.79	4.17	0.54	23.6	9.6
DD020858		0.23	0.006		0.17	0.77	14.6	<0.2	<10	120	0.44	0.98	3.63	0.34	31.7	9.9
DD020859		0.27	0.006		0.09	0.75	16.0	<0.2	<10	90	0.48	1.36	3.83	0.31	22.0	9.3
DD020860		0.37	0.006		0.22	1.02	19.1	<0.2	<10	210	0.42	1.58	5.90	0.47	21.1	9.0
DD020861		0.33	0.008		0.20	0.83	18.0	<0.2	<10	170	0.41	1.43	5.41	0.46	23.2	8.8
DD020862		0.52	0.004		0.17	0.59	18	<0.2	<10	240	0.27	0.78	10.25	0.60	17.50	6.4
DD020863		0.42	0.006		0.26	0.82	21	<0.2	<10	290	0.37	2.35	10.30	0.79	14.85	7.7
DD020864		0.39	0.005		0.21	0.76	23.2	<0.2	<10	240	0.35	1.39	9.78	0.84	16.65	7.0
DD020865		0.29	0.009		0.34	0.89	19.6	<0.2	<10	390	0.45	1.36	6.47	1.72	16.10	7.8
DD020866		0.37	0.004		0.16	0.60	16	<0.2	<10	260	0.33	1.31	11.35	0.67	11.45	5.0
DD020867		0.30	0.004		0.20	1.45	19.1	<0.2	<10	190	0.69	0.90	2.32	1.06	26.8	10.2
DD020868		0.31	0.005		0.32	2.04	26.4	<0.2	<10	210	0.83	2.89	1.12	0.52	22.1	12.1
DD020869		0.23	0.004		0.29	1.50	23.5	<0.2	<10	200	0.58	1.88	1.78	0.77	19.75	9.4
DD020870		0.33	0.004		0.25	1.48	24.9	<0.2	<10	170	0.58	1.52	3.60	0.57	19.60	9.5
DD020871		0.22	0.004		0.19	1.67	22.1	<0.2	<10	220	0.69	1.41	2.27	0.58	21.6	11.6
DD020872		0.21	0.004		0.27	1.49	22.0	<0.2	<10	190	0.59	1.27	1.27	0.53	22.7	10.2
DD020873		0.29	0.003		0.23	1.33	22.6	<0.2	<10	150	0.53	1.12	3.04	0.49	21.1	9.7
DD020874		0.11	0.004		0.19	0.36	38.9	<0.2	<10	80	0.35	0.37	1.87	0.33	16.50	7.3
DD020875		0.20	0.003		0.11	1.73	21.2	<0.2	<10	220	0.77	1.41	0.56	0.43	27.9	10.8
DD020876		0.26	0.025		0.17	0.84	12.1	<0.2	<10	120	0.43	0.64	4.31	0.56	34.9	9.7
DD020877		0.22	0.004		0.23	0.89	17.9	<0.2	<10	110	0.38	0.69	4.67	0.54	28.5	10.2
DD020878		0.31	0.004		0.25	1.55	21.8	<0.2	<10	170	0.73	3.53	2.21	0.82	33.2	11.4
DD020879		0.27	0.003		0.17	0.81	13.2	<0.2	<10	110	0.45	0.71	5.18	0.39	36.0	9.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD018740		26	1.20	23.4	2.43	3.45	<0.05	0.03	0.05	0.035	0.09	9.5	12.3	0.98	479	1.96
DD018741		25	1.00	25.4	2.15	3.10	<0.05	0.03	0.07	0.026	0.07	7.5	11.1	0.66	363	1.86
DD018742		26	0.97	23.2	2.06	3.02	<0.05	0.03	0.06	0.022	0.08	7.3	10.1	0.59	259	4.34
DD018743		26	1.11	29.9	2.44	2.93	0.05	0.05	0.07	0.026	0.08	8.0	10.0	0.83	581	3.97
DD018744		32	1.78	38.8	2.92	3.78	0.06	0.05	0.10	0.031	0.11	10.3	12.3	0.88	339	4.15
DD018745		63	2.22	38.3	3.04	4.30	0.05	0.04	0.07	0.030	0.11	8.4	14.4	2.00	483	3.82
DD018746		33	1.80	40.8	3.20	4.14	0.05	0.08	0.09	0.038	0.11	12.1	14.7	0.69	386	6.52
DD018747		28	1.43	40.4	2.64	3.18	<0.05	0.07	0.06	0.027	0.11	11.3	11.7	2.95	502	3.73
DD018748		32	1.75	35.9	2.82	3.96	<0.05	0.06	0.07	0.036	0.11	8.4	14.8	0.73	465	4.80
DD018749		24	1.48	37.1	1.98	2.98	<0.05	0.05	0.08	0.028	0.08	7.6	9.8	0.59	307	3.57
DD018750		62	1.44	26.4	2.96	5.85	0.05	0.04	0.06	0.031	0.13	6.6	13.9	0.87	1270	3.12
DD020851		19	0.79	17.9	2.74	3.28	<0.05	0.03	0.04	0.029	0.04	12.8	12.8	0.71	532	1.02
DD020852		28	2.45	23.0	2.20	3.93	<0.05	0.03	0.03	0.035	0.08	9.2	15.9	5.15	425	1.28
DD020853		11	0.46	9.9	1.14	1.47	<0.05	0.03	0.04	0.018	0.04	4.6	5.9	7.53	368	0.66
DD020854		17	1.29	19.4	1.61	2.29	<0.05	0.02	0.04	0.026	0.07	6.3	7.8	6.42	669	0.85
DD020855		26	1.21	14.3	2.82	4.50	<0.05	0.04	0.03	0.042	0.07	10.8	13.2	2.40	743	1.37
DD020856		8	0.43	9.0	0.91	1.19	<0.05	0.04	0.03	0.014	0.04	3.9	4.7	8.36	290	0.53
DD020857		19	0.80	24.9	2.62	3.06	<0.05	0.05	0.06	0.026	0.07	11.6	10.4	2.39	460	1.16
DD020858		12	0.46	21.1	3.01	2.08	0.05	0.03	0.05	0.021	0.03	16.7	7.0	1.91	465	0.95
DD020859		14	0.61	19.0	3.05	2.05	<0.05	0.03	0.03	0.026	0.03	11.6	8.0	2.19	352	0.96
DD020860		20	0.90	24.7	2.39	2.78	<0.05	0.03	0.04	0.026	0.05	10.8	10.1	3.70	458	1.27
DD020861		16	0.78	24.5	2.57	2.28	<0.05	0.04	0.04	0.024	0.04	11.9	8.2	3.19	409	0.98
DD020862		11	0.50	19.8	1.65	1.58	<0.05	0.03	0.04	0.017	0.07	8.8	6.5	5.84	389	1.31
DD020863		16	1.26	23.9	1.84	2.24	<0.05	0.03	0.04	0.026	0.08	7.9	8.2	5.81	458	1.24
DD020864		13	0.84	22.8	1.79	2.15	<0.05	0.05	0.03	0.020	0.11	8.8	9.0	5.26	433	1.58
DD020865		15	0.62	26.7	2.04	2.40	<0.05	0.03	0.04	0.021	0.09	8.4	8.1	3.63	580	1.39
DD020866		10	0.65	16.2	1.37	1.54	<0.05	0.03	0.04	0.018	0.07	6.1	6.5	6.56	367	1.09
DD020867		23	1.12	14.0	2.87	4.32	<0.05	0.05	0.04	0.043	0.05	13.2	15.4	1.59	714	1.16
DD020868		39	1.56	19.7	3.40	6.01	<0.05	0.02	0.06	0.050	0.05	12.4	20.6	1.28	323	1.29
DD020869		27	1.11	20.0	2.96	4.23	<0.05	0.02	0.05	0.035	0.05	10.6	15.1	1.28	366	1.40
DD020870		27	1.09	20.7	2.85	4.61	0.08	0.06	0.06	0.039	0.05	11.8	14.8	2.59	387	1.50
DD020871		28	1.18	23.8	3.25	5.26	0.09	0.06	0.07	0.042	0.05	12.6	16.6	1.51	555	1.31
DD020872		28	0.93	23.3	3.08	4.67	0.09	0.06	0.05	0.036	0.05	12.8	15.5	0.95	375	1.51
DD020873		22	1.04	19.9	3.00	4.02	0.08	0.06	0.05	0.039	0.05	11.5	14.0	2.05	469	1.50
DD020874		6	0.35	41.5	2.12	1.06	0.07	0.07	0.06	0.032	0.03	9.2	4.4	0.78	195	3.09
DD020875		29	0.97	17.5	3.19	5.47	0.09	0.07	0.03	0.041	0.06	15.5	15.2	0.60	522	1.35
DD020876		12	0.52	24.9	3.15	2.56	0.10	0.07	0.09	0.025	0.04	19.2	8.4	2.48	568	0.83
DD020877		18	0.71	23.3	2.91	2.67	0.09	0.06	0.04	0.028	0.04	15.7	9.2	2.86	595	1.03
DD020878		27	1.08	28.5	3.45	4.23	<0.05	0.05	0.08	0.036	0.06	18.4	13.2	1.53	676	1.24
DD020879		13	0.65	25.8	2.78	2.50	0.07	0.05	0.06	0.023	0.04	17.9	9.4	2.82	525	0.93



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
DD018740		0.02	1.26	34.0	970	20.3	11.2	0.002	0.07	1.18	2.5	1.0	0.8	37.1	<0.01	0.04
DD018741		0.02	1.01	34.9	880	16.4	8.7	0.002	0.10	1.17	2.1	1.8	0.6	35.5	<0.01	0.04
DD018742		0.02	0.98	30.9	560	14.4	9.2	0.001	0.08	1.43	2.1	1.2	0.7	32.6	<0.01	0.04
DD018743		0.03	1.03	41.3	770	16.3	8.9	0.004	0.09	1.72	2.2	1.9	0.6	39.6	<0.01	0.04
DD018744		0.02	1.18	50.0	1150	20.3	13.7	0.004	0.10	2.04	3.0	3.1	0.9	43.3	<0.01	0.05
DD018745		0.03	1.63	53.3	880	14.8	10.6	0.001	0.06	1.82	5.6	2.5	1.3	50.3	<0.01	0.04
DD018746		0.02	1.24	53.8	1170	26.5	14.0	0.005	0.09	2.40	3.9	2.2	1.0	37.8	<0.01	0.06
DD018747		0.02	0.79	46.7	1110	18.8	10.1	<0.001	0.02	1.75	3.7	1.4	0.6	70.2	<0.01	0.03
DD018748		0.02	1.19	57.8	700	19.1	12.9	0.004	0.15	2.01	3.1	2.6	1.0	47.8	<0.01	0.06
DD018749		0.02	0.90	47.2	950	17.7	10.3	0.013	0.19	1.86	1.9	4.3	0.8	54.4	<0.01	0.04
DD018750		0.05	5.68	74.9	880	13.5	11.5	0.003	0.11	1.32	4.5	2.3	0.8	70.5	0.01	0.04
DD020851		0.01	0.72	20.4	570	25.1	5.5	<0.001	0.06	1.63	2.2	0.6	0.5	34.1	<0.01	0.05
DD020852		0.02	1.24	28.4	800	25.3	11.9	0.001	0.02	1.17	3.3	1.0	0.8	43.4	<0.01	0.06
DD020853		0.01	0.47	13.3	450	25.3	4.3	<0.001	0.02	0.99	1.5	0.3	0.3	33.2	<0.01	0.02
DD020854		0.02	0.65	21.0	690	28.9	8.4	<0.001	0.03	1.03	1.7	0.4	0.6	50.1	<0.01	0.04
DD020855		0.01	1.00	25.8	540	38.6	10.6	0.001	0.03	1.32	3.1	0.3	1.0	17.2	<0.01	0.05
DD020856		0.01	0.33	11.4	650	15.6	4.8	0.001	0.02	0.56	1.0	<0.2	0.2	35.1	<0.01	0.02
DD020857		0.01	0.75	25.5	750	24.5	8.0	0.001	0.04	1.56	2.8	1.1	0.6	30.3	<0.01	0.05
DD020858		0.01	0.45	20.3	650	22.6	4.2	0.001	0.04	1.38	2.4	0.5	0.3	49.9	<0.01	0.06
DD020859		0.01	0.44	19.9	560	26.9	3.8	<0.001	0.03	1.44	2.4	0.4	0.3	47.9	<0.01	0.07
DD020860		0.02	0.80	26.2	820	20.8	6.7	<0.001	0.03	1.15	2.8	0.5	0.5	44.2	<0.01	0.05
DD020861		0.02	0.59	22.4	810	21.8	5.6	0.001	0.03	1.55	2.5	0.6	0.4	49.1	<0.01	0.03
DD020862		0.01	0.47	18.1	670	28.4	5.1	0.001	0.02	1.63	2.1	0.7	0.3	60.2	<0.01	0.03
DD020863		0.02	0.73	22.7	710	32.5	8.9	<0.001	0.02	1.72	2.2	0.6	0.6	58.8	<0.01	0.04
DD020864		0.02	0.63	22.6	770	25.6	8.2	<0.001	0.02	1.54	2.3	0.3	0.4	71.8	<0.01	0.02
DD020865		0.01	0.59	24.3	800	32.9	7.4	<0.001	0.04	1.62	2.0	0.3	0.4	43.8	<0.01	0.03
DD020866		0.01	0.51	15.4	620	25.4	6.7	<0.001	0.02	1.22	1.7	0.2	0.3	50.7	<0.01	0.02
DD020867		0.01	0.92	22.3	320	48.9	9.6	0.001	0.02	1.50	4.5	0.7	0.7	15.6	<0.01	0.03
DD020868		0.03	1.25	39.8	450	39.4	8.6	0.001	0.02	1.30	5.4	0.6	0.9	19.1	<0.01	0.06
DD020869		0.01	0.89	27.9	610	37.5	7.4	<0.001	0.03	1.25	3.3	0.6	0.7	17.8	<0.01	0.03
DD020870		0.02	0.85	28.8	620	32.0	10.1	<0.001	0.03	1.11	4.2	0.9	0.8	28.8	0.01	0.04
DD020871		0.01	0.77	26.9	730	43.3	10.4	<0.001	0.04	1.28	3.8	1.0	0.6	21.9	0.01	0.05
DD020872		0.01	0.80	29.6	490	26.3	9.9	<0.001	0.03	0.95	4.1	1.0	0.6	18.7	0.01	0.05
DD020873		0.01	0.74	22.5	480	39.0	10.9	<0.001	0.03	2.11	4.1	0.8	0.6	20.5	<0.01	0.05
DD020874		0.01	0.14	20.1	570	41.3	4.0	<0.001	0.04	8.27	2.2	1.4	0.2	25.7	<0.01	0.05
DD020875		0.01	0.97	27.0	280	29.7	9.6	<0.001	0.02	0.83	5.4	0.7	0.7	12.1	<0.01	0.05
DD020876		0.01	0.40	19.7	730	27.7	6.6	<0.001	0.04	1.41	3.0	1.0	0.3	44.5	0.01	0.06
DD020877		0.01	0.43	24.6	780	32.6	7.5	<0.001	0.04	1.28	2.8	0.9	0.3	41.5	0.01	0.05
DD020878		0.01	0.87	29.1	550	36.3	9.1	0.001	0.03	1.31	4.4	0.5	0.6	21.1	<0.01	0.03
DD020879		0.01	0.58	20.2	620	28.5	6.4	<0.001	0.02	1.89	3.0	0.7	0.3	49.7	<0.01	0.05

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018740		1.1	0.031	0.16	1.10	49	1.65	7.15	206	1.4
DD018741		0.7	0.026	0.16	1.32	51	0.44	5.83	202	1.2
DD018742		0.9	0.026	0.18	1.89	63	0.38	4.47	186	1.3
DD018743		1.1	0.029	0.18	2.49	55	0.41	6.45	196	1.5
DD018744		1.3	0.036	0.28	3.15	76	0.49	8.68	272	1.8
DD018745		1.5	0.070	0.29	1.77	67	0.84	7.87	174	1.9
DD018746		2.5	0.036	0.32	2.46	78	0.98	9.19	288	2.6
DD018747		2.8	0.035	0.22	0.87	43	0.62	8.62	162	3.6
DD018748		1.2	0.028	0.36	2.80	71	0.64	7.36	335	2.6
DD018749		0.6	0.022	0.28	11.55	54	0.88	7.27	216	1.9
DD018750		0.9	0.089	0.22	2.24	43	0.37	6.07	200	1.5
DD020851		0.8	0.018	0.10	1.11	34	0.33	8.91	113	0.8
DD020852		1.3	0.041	0.22	0.57	39	4.31	8.12	153	1.0
DD020853		0.8	0.014	0.07	0.56	20	0.73	4.39	137	0.8
DD020854		0.5	0.021	0.11	0.54	30	1.71	5.86	210	0.9
DD020855		1.1	0.023	0.15	0.69	50	2.87	8.37	205	1.1
DD020856		0.4	0.009	0.06	0.46	18	0.47	4.12	84	1.1
DD020857		1.2	0.020	0.10	0.59	35	0.51	10.65	118	1.3
DD020858		1.5	0.012	0.07	0.46	22	0.49	15.70	63	0.9
DD020859		1.7	0.014	0.08	0.37	23	0.40	13.45	74	1.0
DD020860		1.7	0.030	0.13	0.61	35	0.76	9.28	119	1.0
DD020861		1.7	0.021	0.11	0.49	27	0.99	12.35	108	1.1
DD020862		2.2	0.015	0.09	0.61	21	0.30	6.60	130	1.4
DD020863		1.3	0.022	0.16	0.56	26	1.09	7.42	160	1.1
DD020864		2.0	0.016	0.12	0.69	25	0.34	6.48	152	2.0
DD020865		0.8	0.015	0.09	0.59	29	0.42	8.01	290	1.1
DD020866		1.1	0.013	0.09	0.52	20	0.40	5.27	133	1.1
DD020867		2.8	0.022	0.16	0.81	45	0.49	10.40	210	1.4
DD020868		1.8	0.045	0.15	0.80	57	0.82	10.80	175	0.8
DD020869		1.2	0.024	0.14	0.60	47	3.49	10.20	160	0.9
DD020870		1.9	0.026	0.14	0.67	46	0.75	12.00	145	1.5
DD020871		1.4	0.024	0.15	0.71	49	0.50	12.85	177	1.4
DD020872		1.8	0.024	0.13	0.72	47	0.73	10.40	129	1.4
DD020873		2.4	0.022	0.15	0.72	40	4.46	10.15	166	1.5
DD020874		2.0	<0.005	0.06	0.77	11	0.10	6.85	103	1.9
DD020875		3.4	0.024	0.15	0.88	54	0.64	9.73	124	1.7
DD020876		2.1	0.012	0.09	0.42	21	0.55	15.50	122	1.4
DD020877		1.6	0.017	0.11	0.54	25	0.23	13.50	127	1.1
DD020878		3.0	0.024	0.22	0.88	46	0.87	15.80	170	1.6
DD020879		2.6	0.016	0.11	0.47	23	0.44	14.55	126	1.3



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
DD020880		0.19	0.002		0.11	0.73	5.1	<0.2	<10	30	0.24	0.24	7.81	0.23	54.8	8.4
DD020881		0.26	0.001		0.21	0.72	12.5	<0.2	<10	60	0.34	0.32	5.46	0.40	39.8	9.1
DD020882		0.36	0.002		0.24	0.41	12	<0.2	<10	40	0.35	0.21	10.75	0.36	52.1	11.5
DD020883		0.19	0.003		0.29	0.82	17.4	<0.2	<10	200	0.40	0.54	5.39	0.79	27.7	9.6
DD020884		0.28	0.008		0.29	1.04	21.0	<0.2	<10	230	0.49	1.46	5.36	0.93	18.35	9.6
DD020885		0.28	0.009		0.25	0.89	20.1	<0.2	<10	200	0.41	0.90	8.40	0.62	15.65	8.2
DD020886		0.40	0.046		1.12	0.85	13.9	<0.2	<10	180	0.39	1.58	4.45	0.50	22.6	8.6
DD020887		0.35	0.003		0.36	0.74	17.3	<0.2	<10	170	0.36	0.66	3.16	0.62	29.9	10.0
DD020888		0.32	0.006		0.21	1.05	15.9	<0.2	<10	220	0.51	0.68	2.85	0.59	25.5	10.1
DD020889		0.37	0.009		0.19	0.86	14.8	<0.2	<10	250	0.38	0.46	6.30	0.47	21.7	10.6
DD020890		0.22	0.007		0.25	1.02	22.5	<0.2	<10	230	0.53	0.53	2.86	0.78	20.6	9.1
DD020962		0.60	0.037		0.36	1.17	28.5	<0.2	<10	930	0.45	1.12	3.89	1.08	20.6	10.6
DD020963		0.26	0.016		0.34	1.24	36.1	<0.2	<10	1470	0.47	1.26	3.48	1.72	21.0	11.6
DD020964		0.45	0.007		0.32	1.50	29.7	<0.2	<10	1050	0.42	1.06	3.13	1.22	18.40	16.2
DD020965		0.43	0.008		0.26	1.08	17.3	<0.2	<10	350	0.47	1.04	3.57	0.55	18.50	7.4
DD020966		0.38	0.010		0.32	0.47	32	<0.2	<10	310	0.19	2.28	10.90	1.51	10.35	5.2
DD020967		0.32	0.020		0.29	0.46	25	<0.2	<10	250	0.19	1.91	12.15	1.24	9.89	5.0
DD020968		0.45	0.008		0.23	0.45	25	<0.2	<10	220	0.18	2.58	11.50	0.97	9.54	4.7
DD020969		0.46	0.012		0.44	0.64	46	<0.2	<10	210	0.26	4.34	10.20	1.17	13.55	6.5
DD020970		0.36	0.007		0.32	0.91	23.1	<0.2	<10	380	0.39	2.21	4.53	1.24	14.40	8.7
DD020971		0.26	0.008		0.19	0.73	17.8	<0.2	<10	310	0.35	0.74	4.60	0.96	14.65	10.6
DD020972		0.55	0.005		0.30	0.99	27.4	<0.2	<10	660	0.39	2.92	5.15	1.53	18.95	11.3
DD020983		0.37	0.013		0.21	0.93	22.8	<0.2	<10	1090	0.32	0.88	2.24	1.10	16.75	8.1
DD020984		0.12	0.006		0.36	1.23	28.0	<0.2	<10	1320	0.47	1.49	2.79	1.87	16.40	10.9
DD020985		0.17	0.007		0.29	1.18	32.7	<0.2	<10	790	0.43	1.62	1.51	1.19	16.55	11.6
DD020986		0.19	0.010		0.38	1.24	29.9	<0.2	<10	1120	0.51	1.67	2.14	1.36	20.6	11.8
DD020987		0.14	0.007		0.40	1.24	35.4	<0.2	<10	1130	0.48	1.25	2.17	2.06	18.75	14.9
DD020988		0.24	0.006		0.35	1.21	39.8	<0.2	<10	350	0.45	1.91	3.58	1.40	22.6	12.6
DD020989		0.17	0.006		0.32	1.21	30.9	<0.2	<10	370	0.50	1.95	3.08	1.15	22.2	11.9
DD020990		0.24	0.074		0.36	1.51	32.1	<0.2	<10	570	0.57	1.92	2.27	0.99	20.4	10.6
DD020991		0.22	0.007		0.34	1.45	31.1	<0.2	<10	660	0.56	2.23	3.71	1.00	19.70	12.1
DD020992		0.28	0.006		0.24	1.32	33.3	<0.2	<10	450	0.44	1.75	3.65	1.40	21.8	10.8
DD018751		0.11	0.013		0.36	1.48	37.1	<0.2	<10	330	0.58	2.33	1.29	1.08	27.9	13.8
DD018752		0.21	0.017		0.28	1.21	45.0	<0.2	<10	350	0.51	3.45	3.11	1.23	22.5	9.5
DD018753		0.20	0.008		0.09	2.04	36.4	<0.2	<10	410	0.62	0.96	0.74	0.84	19.40	11.4
DD018754		0.15	0.421		0.12	1.78	57.9	<0.2	<10	420	0.66	9.77	0.83	0.82	23.5	11.6
DD018755		0.29	0.011		0.26	1.04	46.8	<0.2	<10	350	0.38	3.50	4.95	0.70	18.90	8.6
DD018756		0.35	0.007		0.25	1.45	33.9	<0.2	<10	710	0.56	1.78	4.12	1.78	17.85	11.0
DD018757		0.17	0.008		0.09	2.29	55.8	<0.2	<10	290	0.78	2.92	0.75	0.57	29.8	12.4
DD018758		0.28	0.011		0.40	1.86	63.7	<0.2	<10	340	0.69	4.74	3.70	1.11	23.4	11.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
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Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD020880		7	1.56	27.5	2.92	1.88	0.07	0.04	0.03	0.016	0.04	26.7	10.7	4.36	577	0.52
DD020881		9	1.02	24.0	3.11	2.11	0.11	0.07	0.03	0.021	0.04	21.8	8.9	3.00	563	0.74
DD020882		5	0.89	27.4	2.41	1.30	0.07	0.06	0.02	0.014	0.04	25.3	4.8	4.14	539	0.73
DD020883		14	0.60	26.5	2.80	2.48	0.09	0.07	0.04	0.026	0.06	15.4	8.0	3.16	507	1.56
DD020884		17	0.96	25.3	2.61	3.02	0.08	0.06	0.05	0.034	0.08	10.4	10.4	3.35	629	1.44
DD020885		17	0.65	26.3	2.06	2.63	0.07	0.06	0.06	0.027	0.07	9.0	9.7	4.95	354	1.80
DD020886		15	0.82	27.3	2.69	2.52	0.08	0.06	0.25	0.034	0.05	13.2	10.4	2.80	319	1.28
DD020887		11	1.00	27.4	2.87	2.24	0.09	0.06	0.13	0.027	0.04	16.1	9.2	1.86	520	1.13
DD020888		19	0.53	28.2	2.51	3.10	0.08	0.08	0.06	0.026	0.05	14.4	12.7	1.59	414	1.54
DD020889		15	0.58	32.1	2.74	2.47	0.08	0.07	0.06	0.025	0.05	11.9	10.9	2.36	443	1.90
DD020890		18	0.50	26.5	2.99	2.88	0.09	0.07	0.05	0.031	0.05	12.4	11.3	1.57	377	1.97
DD020962		28	1.35	37.9	2.82	3.52	0.09	0.07	0.08	0.033	0.10	11.7	13.4	2.53	393	4.07
DD020963		31	1.88	40.1	2.95	3.79	0.09	0.07	0.08	0.040	0.12	12.3	12.8	2.15	531	5.16
DD020964		54	1.79	42.7	3.15	5.00	0.10	0.06	0.07	0.040	0.10	10.6	15.5	2.09	513	4.01
DD020965		21	0.74	25.2	2.20	3.20	0.07	0.05	0.07	0.030	0.05	10.7	13.5	2.19	279	1.60
DD020966		10	0.37	12.7	1.31	1.49	0.05	0.03	0.05	0.046	0.03	5.8	5.2	6.62	614	0.85
DD020967		9	0.39	11.7	1.23	1.46	0.05	0.03	0.04	0.040	0.03	5.5	4.8	7.47	451	0.82
DD020968		9	0.43	10.9	1.19	1.41	<0.05	0.03	0.03	0.040	0.03	5.3	5.2	7.07	379	0.79
DD020969		14	0.48	14.9	1.69	1.98	0.05	0.04	0.05	0.045	0.03	7.8	6.8	6.29	574	1.05
DD020970		20	1.34	22.3	2.05	2.88	0.07	0.04	0.06	0.040	0.05	8.0	10.2	2.56	383	0.92
DD020971		21	0.95	31.0	2.47	2.40	0.07	0.06	0.05	0.027	0.05	8.0	8.4	2.55	372	1.71
DD020972		23	1.49	36.9	2.46	3.20	0.08	0.08	0.07	0.034	0.11	10.6	12.4	2.76	552	4.86
DD020983		21	1.35	22.5	1.95	2.98	0.08	0.04	0.04	0.026	0.06	9.7	9.7	1.21	297	2.14
DD020984		28	1.89	43.4	2.52	3.79	0.09	0.06	0.08	0.040	0.11	9.6	12.5	1.28	511	3.83
DD020985		27	1.25	26.8	2.55	3.84	0.07	0.05	0.06	0.035	0.07	9.4	12.5	0.66	502	4.21
DD020986		30	1.41	42.2	2.70	3.61	0.05	0.05	0.10	0.041	0.08	10.7	11.5	0.68	555	3.99
DD020987		30	1.59	41.1	2.87	3.66	0.05	0.05	0.09	0.039	0.11	10.0	11.7	0.90	626	4.04
DD020988		31	1.66	44.9	3.15	3.55	0.06	0.05	0.07	0.035	0.11	12.4	11.8	2.02	591	4.52
DD020989		27	1.26	34.1	2.80	3.48	0.05	0.05	0.08	0.032	0.08	11.3	13.3	1.66	593	2.79
DD020990		32	1.43	45.8	2.82	4.19	0.05	0.04	0.11	0.035	0.06	12.1	17.2	1.07	421	2.13
DD020991		31	1.57	32.4	2.97	4.04	<0.05	0.03	0.07	0.039	0.08	10.5	14.2	1.96	693	3.11
DD020992		29	1.35	18.9	2.75	3.54	<0.05	0.02	0.06	0.031	0.06	9.9	16.3	2.04	1020	2.46
DD018751		34	1.20	33.7	3.05	4.33	0.05	0.06	0.07	0.037	0.07	15.1	17.1	0.97	537	2.19
DD018752		27	0.99	28.6	2.34	3.48	0.05	0.05	0.05	0.030	0.05	12.0	13.1	1.66	279	0.90
DD018753		46	2.06	20.5	3.63	5.73	<0.05	0.02	0.02	0.041	0.05	8.9	27.4	1.00	490	2.29
DD018754		37	1.31	20.3	3.42	4.73	0.05	0.03	0.04	0.042	0.04	13.7	15.0	0.87	764	1.90
DD018755		23	1.05	26.7	2.45	2.88	0.05	0.04	0.05	0.026	0.06	10.4	10.7	2.74	400	1.83
DD018756		33	1.25	19.4	2.76	4.06	0.05	0.02	0.04	0.029	0.06	9.5	16.8	2.05	589	1.74
DD018757		42	1.58	17.0	4.00	6.54	0.05	0.04	0.04	0.050	0.07	13.6	17.3	0.92	426	2.26
DD018758		42	2.28	31.2	3.27	5.25	0.05	0.03	0.06	0.049	0.10	12.4	22.0	2.17	456	2.53



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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
DD020880		0.01	0.06	14.1	620	19.1	4.7	<0.001	0.02	0.51	2.0	0.7	<0.2	80.4	<0.01	0.03
DD020881		0.01	0.21	15.8	590	35.9	8.4	<0.001	0.02	2.05	3.0	0.8	0.2	57.4	0.01	0.05
DD020882		0.01	0.17	17.7	520	36.1	4.3	<0.001	0.01	1.55	2.4	0.6	<0.2	92.9	<0.01	0.04
DD020883		0.01	0.41	22.0	890	34.1	7.9	<0.001	0.04	2.07	2.7	0.9	0.3	45.4	0.01	0.05
DD020884		0.01	0.54	25.2	920	39.5	11.1	<0.001	0.04	2.06	2.9	0.9	0.5	32.2	<0.01	0.05
DD020885		0.02	0.67	25.3	880	30.5	8.5	<0.001	0.03	1.72	3.0	0.7	0.4	55.1	<0.01	0.03
DD020886		0.01	0.50	22.2	840	69.9	7.9	<0.001	0.02	5.34	3.8	0.8	0.6	46.6	0.01	0.05
DD020887		0.01	0.32	20.3	730	46.4	7.1	<0.001	0.05	3.57	2.6	1.0	0.4	34.1	0.01	0.06
DD020888		0.01	0.55	29.9	640	27.8	6.3	<0.001	0.03	1.58	3.6	0.8	0.4	34.8	0.01	0.05
DD020889		0.01	0.47	25.7	700	21.1	6.5	0.001	0.02	1.65	3.4	0.8	0.3	61.7	<0.01	0.05
DD020890		0.01	0.56	26.0	740	25.8	7.7	<0.001	0.04	1.81	3.3	1.0	0.4	34.6	0.01	0.06
DD020962		0.02	0.96	42.0	1030	19.5	13.0	<0.001	0.04	1.59	4.1	1.3	0.6	39.3	<0.01	0.04
DD020963		0.03	1.08	52.5	1230	20.5	16.0	0.001	0.06	1.93	4.1	1.5	0.7	45.6	0.01	0.05
DD020964		0.02	1.10	62.5	1080	17.2	14.8	0.001	0.06	1.55	6.0	1.6	0.8	49.1	0.01	0.04
DD020965		0.02	0.71	24.2	710	20.7	8.7	<0.001	0.04	0.94	3.2	1.0	0.5	25.4	<0.01	0.04
DD020966		0.01	0.40	13.8	650	76.7	4.2	<0.001	0.04	1.01	1.5	0.7	0.6	40.2	<0.01	0.04
DD020967		0.02	0.47	12.6	640	76.2	4.5	<0.001	0.04	0.99	1.6	0.7	0.5	42.3	<0.01	0.03
DD020968		0.01	0.41	12.2	630	54.3	5.2	0.001	0.03	0.86	1.6	0.6	0.5	41.5	<0.01	0.04
DD020969		0.01	0.45	17.6	770	102.5	5.5	<0.001	0.03	1.23	2.1	0.7	1.2	41.1	<0.01	0.05
DD020970		0.01	0.73	25.4	850	46.1	11.4	0.001	0.09	0.82	2.2	1.5	0.6	29.4	<0.01	0.04
DD020971		0.01	0.70	34.0	1010	19.6	8.8	0.002	0.08	1.16	2.9	1.6	0.4	53.6	0.01	0.04
DD020972		0.02	0.97	42.8	1070	19.9	15.9	0.001	0.04	1.58	3.6	1.4	0.6	70.1	<0.01	0.05
DD020983		0.02	1.01	33.7	970	12.2	10.2	0.001	0.05	1.03	2.5	1.4	0.6	41.2	<0.01	0.04
DD020984		0.02	1.25	51.9	990	20.2	16.7	0.001	0.09	1.97	3.1	2.2	1.0	47.1	0.01	0.05
DD020985		0.02	1.07	36.0	910	17.9	12.0	0.001	0.08	1.18	2.7	1.4	0.7	33.9	<0.01	0.05
DD020986		0.02	1.13	53.5	980	19.9	10.6	0.002	0.08	1.77	2.6	1.6	0.7	38.8	<0.01	0.05
DD020987		0.02	1.11	55.3	1040	22.1	13.6	0.004	0.10	1.98	2.9	2.5	0.8	45.4	<0.01	0.05
DD020988		0.02	1.18	49.8	1160	21.6	13.4	<0.001	0.02	1.98	3.6	1.6	0.6	43.1	<0.01	0.05
DD020989		0.02	1.14	37.7	1120	23.2	9.8	<0.001	0.03	1.31	3.2	1.2	0.6	41.8	<0.01	0.05
DD020990		0.02	1.44	39.0	830	23.9	12.7	<0.001	0.06	1.14	3.5	1.5	0.6	38.3	<0.01	0.04
DD020991		0.02	1.36	40.7	1160	24.4	12.5	<0.001	0.05	1.38	3.0	1.6	0.7	43.8	<0.01	0.04
DD020992		0.02	1.34	32.4	870	27.5	11.9	<0.001	0.05	1.05	2.9	1.0	0.5	38.2	<0.01	0.04
DD018751		0.02	1.48	43.0	1250	27.1	10.8	<0.001	0.02	1.23	4.5	1.4	0.7	29.0	<0.01	0.04
DD018752		0.03	1.09	31.9	1150	28.1	5.8	0.001	0.05	1.18	3.4	1.2	0.6	40.8	<0.01	0.05
DD018753		0.03	1.81	39.2	710	27.8	10.0	<0.001	0.03	0.98	3.9	0.6	0.8	19.6	<0.01	0.05
DD018754		0.04	0.99	36.3	980	27.4	6.8	0.001	0.04	1.00	4.1	0.7	0.7	20.0	<0.01	0.05
DD018755		0.04	0.80	29.6	1030	19.7	7.8	0.001	0.02	1.20	3.2	0.7	0.5	44.9	<0.01	0.03
DD018756		0.04	1.14	33.0	950	21.3	7.3	0.001	0.07	0.98	3.2	4.2	0.6	54.2	<0.01	0.02
DD018757		0.01	2.20	33.1	360	31.7	11.3	<0.001	0.02	0.87	5.3	1.3	1.3	16.0	<0.01	0.04
DD018758		0.03	1.80	41.5	1010	37.0	17.2	0.001	0.06	1.34	4.5	1.4	1.1	56.2	<0.01	0.04





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	Analyte	Th	Ti	Ti	U	V	W	Y	Zn	Zr
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020880		4.1	0.009	0.15	0.46	9	0.06	14.20	76	1.3
DD020881		3.5	0.011	0.15	0.32	13	0.14	16.90	138	1.3
DD020882		5.9	0.005	0.13	0.52	8	0.08	16.00	119	2.9
DD020883		1.7	0.012	0.11	0.58	24	0.26	13.30	183	1.7
DD020884		1.2	0.017	0.13	0.62	32	0.71	11.50	191	1.5
DD020885		2.0	0.021	0.12	0.56	29	0.40	8.56	147	1.8
DD020886		2.7	0.021	0.39	0.45	26	0.33	12.85	154	1.5
DD020887		1.9	0.015	0.23	0.77	19	0.25	12.45	158	1.4
DD020888		2.8	0.019	0.11	0.50	36	0.40	10.10	139	2.1
DD020889		3.2	0.017	0.11	0.68	25	0.22	9.34	114	2.1
DD020890		1.8	0.015	0.10	0.60	32	0.41	12.45	126	1.6
DD020962		2.9	0.033	0.23	0.62	52	0.87	10.10	185	2.6
DD020963		2.7	0.037	0.31	1.02	58	1.12	10.30	223	2.7
DD020964		2.2	0.060	0.26	0.82	66	0.84	10.10	181	2.0
DD020965		1.4	0.024	0.11	0.81	40	0.57	8.85	119	1.2
DD020966		0.7	0.015	0.08	1.00	23	4.21	4.81	325	0.8
DD020967		0.7	0.018	0.09	0.78	22	0.83	4.37	329	0.8
DD020968		0.8	0.016	0.08	0.93	21	2.23	4.46	245	1.0
DD020969		0.9	0.017	0.09	1.04	29	1.19	6.58	333	1.0
DD020970		1.0	0.024	0.14	1.78	32	0.78	7.70	457	1.3
DD020971		2.0	0.027	0.13	1.35	28	0.47	10.40	221	1.7
DD020972		2.9	0.032	0.26	1.18	42	1.43	9.07	176	3.1
DD020983		1.8	0.030	0.20	1.38	47	0.89	6.92	184	1.5
DD020984		1.3	0.034	0.32	1.18	62	1.11	8.29	230	2.1
DD020985		1.0	0.028	0.20	4.01	52	1.46	6.72	228	1.4
DD020986		1.3	0.032	0.26	1.91	65	1.55	8.98	205	1.7
DD020987		1.5	0.033	0.30	1.60	66	0.63	8.18	271	2.0
DD020988		2.7	0.039	0.25	0.99	50	0.94	10.05	175	2.5
DD020989		2.0	0.031	0.18	1.29	43	5.05	9.65	172	1.8
DD020990		1.1	0.035	0.19	1.41	53	0.72	12.50	143	1.3
DD020991		1.1	0.037	0.19	2.65	58	1.17	9.29	180	1.2
DD020992		1.3	0.035	0.18	1.11	46	1.47	7.27	230	1.0
DD018751		4.2	0.045	0.17	0.79	51	1.44	10.65	178	2.7
DD018752		2.3	0.038	0.13	1.08	41	2.56	9.92	210	2.0
DD018753		2.1	0.056	0.16	0.73	74	0.75	5.22	190	0.9
DD018754		1.6	0.037	0.16	1.02	58	1.24	12.50	162	0.8
DD018755		2.7	0.037	0.14	0.55	37	2.35	8.52	145	2.0
DD018756		0.9	0.042	0.14	2.15	47	6.00	9.05	170	0.8
DD018757		3.2	0.045	0.22	0.86	76	4.00	9.97	165	1.4
DD018758		1.7	0.051	0.25	1.82	64	1.90	12.05	227	1.1



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 VANCOUVER BC V6B 1L8

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 Finalized Date: 3- JUL- 2012  
 Account: RCM

Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
DD018759		0.12	0.006		0.31	1.40	36.3	<0.2	<10	390	0.51	2.15	1.25	0.82	18.65	12.3
DD018760		0.13	0.009		0.32	1.22	35.6	<0.2	<10	360	0.51	2.59	1.91	0.78	18.05	10.1
DD018761		0.09	0.011		0.48	1.45	44.2	<0.2	<10	370	0.59	3.43	1.53	1.23	21.1	11.8
DD018762		0.17	0.009		0.25	1.04	25.8	<0.2	<10	400	0.38	2.24	2.61	1.49	15.15	8.9
DD018763		0.13	0.009		0.37	1.19	30.8	<0.2	<10	380	0.49	2.25	2.02	1.22	18.15	10.2
DD018764		0.28	0.003		0.22	1.74	17.6	<0.2	<10	270	0.47	0.58	0.70	1.21	17.85	8.1
DD018765		0.30	0.045		0.31	1.42	46.6	<0.2	<10	530	0.64	1.48	1.64	0.53	28.2	15.9
DD018766		0.25	0.008		0.34	1.69	40.6	<0.2	<10	310	0.70	1.59	1.84	0.65	28.2	13.1
DD018767		0.19	0.008		0.33	1.29	31.7	<0.2	<10	510	0.54	0.77	1.79	0.64	20.6	10.5
DD018768		0.18	0.014		0.31	1.34	45.4	<0.2	<10	360	0.56	1.62	1.54	0.83	26.3	12.9
DD018769		0.10	0.035		0.10	0.58	12.4	<0.2	<10	260	0.25	0.35	3.46	2.27	9.07	4.8
DD018770		0.14	0.018		0.23	0.94	31.2	<0.2	<10	460	0.37	0.82	3.00	1.32	15.90	9.3
DD018771		0.18	0.008		0.38	1.21	40.6	<0.2	<10	340	0.52	1.04	3.05	1.27	24.9	12.2
DD018772		0.15	0.013		0.44	1.16	44.0	<0.2	<10	350	0.47	0.98	3.01	1.54	23.7	11.7
DD018773		0.15	0.009		0.37	1.05	34.5	<0.2	<10	400	0.41	0.96	2.98	1.08	20.9	11.0
DD018774		0.24	0.011		0.40	1.25	35.2	<0.2	<10	430	0.46	1.11	2.92	1.97	22.5	10.9
DD018775		0.14	0.012		0.52	1.15	33.6	<0.2	<10	410	0.44	1.21	2.91	2.41	18.00	11.1
DD018776		0.15	0.011		0.39	1.10	28.5	<0.2	<10	380	0.42	0.96	2.03	2.58	19.90	13.3
DD018777		0.22	0.013		0.56	1.44	40.4	<0.2	<10	430	0.54	1.32	1.46	2.15	23.6	15.0
DD018778		0.17	0.017		0.40	1.27	40.7	<0.2	<10	340	0.45	1.23	0.94	2.50	23.8	16.4
DD018779		0.21	0.016		0.47	1.38	34.5	<0.2	<10	400	0.50	0.93	2.80	2.22	22.1	13.3
DD018780		0.12	0.015		0.36	1.31	38.6	<0.2	10	370	0.56	0.90	2.73	2.22	22.6	13.1
DD018781		0.07	0.007		0.38	1.13	31.5	<0.2	<10	340	0.49	0.71	3.02	2.06	19.35	9.8
DD018782		0.24	0.012		0.40	1.39	42.3	<0.2	<10	390	0.60	0.96	2.56	2.07	25.6	13.5
DD018783		0.14	0.025		0.54	1.53	41.1	<0.2	<10	480	0.62	0.98	1.27	1.93	23.3	12.9
DD018784		0.16	0.012		0.40	1.45	40.4	<0.2	<10	310	0.63	1.53	2.11	1.50	25.2	11.6
DD018785		0.29	0.031		0.31	1.28	98.6	<0.2	<10	270	0.56	1.44	2.31	1.00	31.8	14.6
DD018786		0.21	0.014		0.74	1.86	52.0	<0.2	<10	1210	0.61	0.97	1.55	5.46	23.2	16.5
DD018787		0.14	0.018		0.42	1.10	60.6	<0.2	<10	400	0.38	0.80	3.46	1.09	16.45	12.7
DD018788		0.26	0.016		0.74	1.19	51.1	<0.2	<10	490	0.51	1.04	1.51	1.90	24.3	13.7
DD018789		0.16	0.014		0.30	1.17	32.4	<0.2	<10	290	0.48	1.31	2.72	1.35	19.55	11.6
DD018790		0.30	0.068		0.45	1.14	62.0	<0.2	<10	280	0.46	1.35	2.67	1.01	23.3	15.3
DD020781		0.20	0.007		0.41	1.39	27.1	<0.2	<10	470	0.52	2.42	3.61	0.83	18.00	10.2
DD020782		0.25	0.004		0.25	1.03	20.9	<0.2	<10	400	0.39	1.96	4.44	0.87	15.80	10.1
DD020783		0.17	0.003		0.29	1.26	25.9	<0.2	<10	480	0.50	1.97	2.62	0.67	15.50	9.2
DD020784		0.16	0.006		0.34	1.21	23.5	<0.2	<10	480	0.50	1.78	2.58	1.87	14.70	8.6
DD020785		0.14	0.005		0.27	1.17	15.7	<0.2	<10	460	0.43	1.44	2.43	0.89	16.15	7.9
DD020786		0.30	0.011		0.27	0.34	27	<0.2	<10	240	0.18	2.10	12.60	1.23	7.91	3.8
DD020787		0.30	0.005		0.24	0.97	14.7	<0.2	<10	400	0.40	1.87	4.89	0.64	14.70	7.0
DD020788		0.23	0.006		0.28	1.06	17.1	<0.2	<10	370	0.45	1.99	5.01	0.83	15.30	8.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD018759		36	1.58	32.6	2.84	3.87	0.05	0.03	0.06	0.041	0.10	9.7	13.6	0.69	500	2.98
DD018760		27	1.45	30.9	2.51	3.43	<0.05	0.04	0.06	0.038	0.09	9.2	13.2	0.65	543	2.57
DD018761		32	1.69	34.5	2.96	4.07	0.05	0.04	0.06	0.047	0.11	11.1	15.7	0.76	554	2.87
DD018762		23	1.28	33.3	2.27	2.87	0.05	0.04	0.05	0.035	0.08	8.0	10.6	0.94	519	2.45
DD018763		26	1.45	36.2	2.60	3.34	<0.05	0.05	0.07	0.038	0.09	9.2	12.9	0.64	474	2.66
DD018764		44	1.80	22.7	2.67	5.59	<0.05	0.02	0.03	0.032	0.06	8.9	22.4	0.77	286	4.87
DD018765		28	0.90	52.9	3.64	3.86	0.05	0.06	0.07	0.035	0.09	14.3	16.6	0.90	496	2.94
DD018766		32	1.47	51.0	3.46	4.65	0.05	0.05	0.08	0.035	0.10	15.1	18.3	1.31	575	2.72
DD018767		24	0.90	41.2	2.98	3.31	<0.05	0.05	0.09	0.030	0.09	10.8	14.6	0.69	415	2.38
DD018768		30	1.26	40.7	3.25	3.87	0.05	0.05	0.07	0.040	0.13	13.5	14.1	0.80	516	3.99
DD018769		12	0.47	21.8	1.23	1.59	<0.05	0.04	0.06	0.014	0.06	4.4	4.8	0.53	199	2.18
DD018770		20	0.84	35.5	2.27	2.69	<0.05	0.05	0.06	0.025	0.09	7.9	9.6	0.59	559	2.82
DD018771		28	1.04	41.2	3.07	3.41	0.06	0.06	0.06	0.033	0.14	12.9	12.0	1.50	422	3.61
DD018772		28	1.33	48.6	2.82	3.29	0.06	0.08	0.08	0.036	0.20	12.1	11.1	1.61	499	4.79
DD018773		25	1.14	40.7	2.74	3.04	0.05	0.05	0.06	0.032	0.11	10.8	11.4	1.59	378	3.43
DD018774		33	1.72	49.1	2.75	3.62	0.07	0.07	0.07	0.037	0.18	11.9	11.6	1.60	436	6.22
DD018775		31	1.59	54.8	2.74	3.18	0.06	0.07	0.07	0.041	0.20	10.1	10.9	1.09	435	5.41
DD018776		34	0.91	43.3	2.77	3.13	0.05	0.05	0.06	0.037	0.12	10.4	11.3	1.14	369	5.30
DD018777		46	2.72	63.9	3.53	4.09	0.07	0.06	0.08	0.048	0.21	12.4	13.9	0.97	402	7.84
DD018778		43	1.48	50.2	3.44	3.64	0.06	0.07	0.08	0.042	0.17	12.6	12.2	0.77	384	9.55
DD018779		38	1.86	61.8	3.04	3.83	0.06	0.07	0.08	0.041	0.20	11.8	13.3	1.69	507	6.41
DD018780		34	1.51	53.6	3.02	3.72	0.06	0.06	0.10	0.039	0.16	12.2	12.9	1.55	453	6.11
DD018781		27	1.73	46.4	2.54	3.33	0.05	0.07	0.08	0.040	0.17	10.1	10.9	1.29	1010	4.99
DD018782		31	1.50	62.0	3.28	3.85	0.06	0.09	0.09	0.037	0.16	13.8	13.2	1.28	640	6.16
DD018783		38	1.56	48.9	3.47	4.16	0.06	0.06	0.09	0.037	0.17	13.2	12.4	0.92	528	6.46
DD018784		32	1.51	54.2	3.20	3.92	0.05	0.07	0.09	0.045	0.16	14.1	12.4	1.24	527	5.58
DD018785		20	1.60	63.7	3.73	3.43	0.05	0.11	0.05	0.031	0.26	17.1	8.7	1.30	681	5.02
DD018786		62	2.61	99.6	4.18	5.25	0.07	0.09	0.14	0.053	0.24	13.5	13.9	1.38	505	10.65
DD018787		37	1.92	40.8	2.95	3.28	0.06	0.05	0.07	0.027	0.17	9.0	8.8	1.71	691	5.59
DD018788		32	1.18	64.8	3.25	3.43	0.05	0.06	0.05	0.036	0.15	13.2	9.2	0.75	454	5.20
DD018789		27	1.42	35.6	2.57	3.35	0.05	0.05	0.06	0.030	0.11	9.9	10.6	1.62	829	2.99
DD018790		26	1.45	43.8	3.30	3.36	0.06	0.06	0.05	0.029	0.14	12.6	10.0	1.71	608	5.03
DD020781		27	1.76	26.4	2.64	3.95	<0.05	0.04	0.07	0.036	0.12	9.3	11.8	2.03	527	2.42
DD020782		20	1.10	21.6	2.49	2.85	<0.05	0.04	0.06	0.027	0.08	8.0	9.2	2.44	560	1.95
DD020783		26	2.08	16.3	2.28	3.70	<0.05	0.04	0.06	0.033	0.07	8.0	10.8	1.19	335	1.06
DD020784		25	1.69	23.6	2.39	3.52	<0.05	0.03	0.10	0.030	0.06	7.7	10.1	0.80	343	1.29
DD020785		24	1.12	19.5	2.27	3.30	<0.05	0.04	0.07	0.026	0.05	8.2	10.5	0.90	328	0.93
DD020786		8	0.31	11.2	1.09	0.94	<0.05	0.02	0.05	0.029	0.04	4.1	3.5	7.85	438	0.70
DD020787		18	1.04	16.5	1.78	2.85	<0.05	0.04	0.05	0.025	0.08	7.5	8.6	2.59	484	1.02
DD020788		21	1.56	21.3	2.11	3.08	<0.05	0.03	0.05	0.023	0.10	7.8	9.6	2.22	507	1.33



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		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
DD018759		0.02	1.05	41.2	650	35.0	13.3	<0.001	0.04	1.58	2.8	1.5	1.6	29.2	<0.01	0.04
DD018760		0.02	0.95	33.1	910	29.8	12.9	0.004	0.09	1.34	2.4	1.8	1.1	37.7	<0.01	0.04
DD018761		0.02	1.02	41.6	870	35.9	18.4	0.002	0.06	1.58	3.1	1.9	1.5	34.1	<0.01	0.06
DD018762		0.02	0.74	35.9	920	24.8	12.6	0.004	0.09	1.40	1.8	2.0	1.9	44.1	<0.01	0.04
DD018763		0.02	0.90	35.2	850	27.1	11.4	0.007	0.10	1.51	2.4	2.8	1.0	41.7	<0.01	0.05
DD018764		0.01	1.60	34.4	630	14.4	17.0	<0.001	0.02	0.95	3.5	1.1	0.8	20.5	<0.01	0.05
DD018765		0.01	1.06	43.9	970	21.0	10.2	<0.001	0.02	1.68	3.8	1.6	0.5	31.2	<0.01	0.06
DD018766		0.02	1.16	46.6	820	22.5	13.5	<0.001	0.02	1.66	4.4	1.2	1.1	35.6	<0.01	0.05
DD018767		0.01	0.91	36.3	760	18.7	10.2	<0.001	0.06	1.44	2.7	1.6	0.5	32.0	<0.01	0.05
DD018768		0.02	0.95	42.4	1100	24.0	13.3	0.001	0.04	1.78	3.3	2.2	0.8	35.5	<0.01	0.06
DD018769		0.01	0.43	19.5	690	7.6	6.1	0.001	0.12	0.94	1.0	1.2	0.3	56.2	<0.01	0.02
DD018770		0.01	0.72	35.8	900	14.7	9.0	0.002	0.11	1.60	1.8	1.8	0.5	58.9	<0.01	0.04
DD018771		0.01	0.87	47.9	1270	22.8	11.0	0.001	0.03	1.81	3.4	2.0	0.5	50.4	<0.01	0.05
DD018772		0.01	0.78	54.1	1440	17.9	14.2	0.002	0.04	2.11	3.1	2.4	0.6	46.6	<0.01	0.05
DD018773		0.02	0.74	44.3	1270	16.8	11.9	0.003	0.04	1.62	2.9	2.0	0.5	44.7	<0.01	0.06
DD018774		0.03	0.76	55.6	1470	14.6	15.0	0.004	0.04	2.37	3.5	4.2	0.7	56.6	<0.01	0.05
DD018775		0.02	0.77	57.7	1390	15.9	16.1	0.003	0.08	2.38	2.7	5.3	0.7	68.8	<0.01	0.07
DD018776		0.02	0.72	60.2	1170	16.4	9.4	0.006	0.05	2.12	3.1	3.8	0.6	41.3	<0.01	0.05
DD018777		0.03	0.91	80.2	1520	18.5	21.8	0.001	0.06	2.95	4.0	4.3	0.8	44.5	<0.01	0.07
DD018778		0.02	0.87	74.8	1510	20.6	11.3	0.004	0.06	2.98	3.8	3.9	1.0	36.3	<0.01	0.08
DD018779		0.02	1.01	68.3	1300	19.2	18.3	0.004	0.06	2.80	4.0	3.4	0.9	49.6	<0.01	0.06
DD018780		0.02	0.97	63.7	1220	20.1	14.0	0.002	0.05	2.61	3.7	3.1	1.0	50.8	<0.01	0.06
DD018781		0.02	0.73	51.8	1220	15.4	15.3	0.009	0.07	2.30	2.8	4.1	0.7	52.1	<0.01	0.04
DD018782		0.02	0.86	66.6	1140	20.7	11.9	0.002	0.06	2.70	3.8	2.2	0.9	49.5	<0.01	0.05
DD018783		0.03	0.93	63.7	1360	19.8	14.0	0.001	0.04	2.45	3.7	2.8	1.0	33.4	<0.01	0.04
DD018784		0.02	0.93	56.2	1090	21.8	13.3	0.001	0.06	2.20	3.2	2.9	0.9	34.2	<0.01	0.07
DD018785		0.02	1.10	47.3	1390	15.4	17.3	0.002	0.04	2.14	3.2	1.5	0.7	39.1	<0.01	0.07
DD018786		0.03	0.95	120.5	1370	14.2	19.5	0.003	0.05	3.93	5.6	9.9	0.7	53.1	<0.01	0.08
DD018787		0.02	1.06	55.4	1430	12.1	14.7	0.004	0.09	2.07	3.0	3.4	0.7	50.2	<0.01	0.02
DD018788		0.02	0.76	73.3	1380	15.5	11.8	0.002	0.04	2.19	2.7	3.0	0.6	44.5	<0.01	0.06
DD018789		0.02	0.76	43.9	1130	19.9	10.5	0.002	0.05	1.68	2.6	1.5	0.8	37.6	<0.01	0.04
DD018790		0.02	1.04	46.9	1410	21.5	11.2	0.003	0.04	2.11	3.0	1.8	1.6	43.0	<0.01	0.07
DD020781		0.03	1.14	33.3	1100	27.5	12.7	0.001	0.06	1.47	2.7	1.2	1.0	39.7	<0.01	0.03
DD020782		0.02	0.84	28.5	900	33.2	8.4	0.001	0.05	1.00	2.0	0.6	0.6	35.9	<0.01	0.04
DD020783		0.03	1.13	27.1	740	20.9	10.1	0.002	0.10	0.67	2.1	1.4	0.8	30.1	<0.01	0.04
DD020784		0.02	0.95	27.9	890	35.0	10.7	0.001	0.16	0.93	1.7	1.5	0.6	28.4	<0.01	0.04
DD020785		0.02	0.99	24.8	700	20.2	8.2	0.002	0.10	0.74	2.3	1.0	0.5	28.1	<0.01	0.01
DD020786		0.02	0.28	12.3	570	71.3	3.5	<0.001	0.04	1.16	1.0	0.4	1.0	40.2	<0.01	0.02
DD020787		0.02	0.92	21.1	820	19.0	8.1	0.001	0.06	0.83	1.8	0.8	0.5	40.8	<0.01	0.02
DD020788		0.02	1.08	25.2	740	21.5	11.5	0.002	0.09	1.00	1.9	1.1	0.7	50.9	<0.01	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th	Ti	Ti	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018759		1.5	0.040	0.22	1.11	65	2.77	6.52	174	1.3
DD018760		1.1	0.028	0.25	1.97	55	2.17	7.10	163	1.4
DD018761		1.5	0.035	0.25	0.94	65	3.18	8.21	214	1.7
DD018762		0.9	0.026	0.17	1.70	45	2.21	5.94	193	1.3
DD018763		1.1	0.025	0.21	2.43	51	1.45	7.56	173	2.0
DD018764		2.3	0.045	0.21	0.83	78	0.38	3.42	243	1.1
DD018765		2.9	0.024	0.16	1.17	45	0.59	9.59	123	2.3
DD018766		3.1	0.035	0.20	0.90	50	0.92	11.80	143	2.1
DD018767		1.3	0.020	0.13	1.54	40	0.38	8.44	111	1.8
DD018768		2.1	0.029	0.20	1.12	53	1.12	9.18	174	1.9
DD018769		0.4	0.011	0.06	1.45	20	0.10	3.52	56	1.5
DD018770		0.8	0.017	0.13	2.21	35	0.35	5.78	134	1.9
DD018771		2.4	0.024	0.14	1.38	47	0.33	9.67	188	2.8
DD018772		2.3	0.023	0.21	1.36	49	0.21	9.17	193	3.7
DD018773		1.9	0.027	0.15	1.12	43	0.27	7.78	170	2.3
DD018774		2.4	0.033	0.23	1.56	52	0.19	9.30	220	3.1
DD018775		1.5	0.027	0.24	2.92	50	0.21	8.82	247	3.2
DD018776		2.4	0.029	0.14	1.25	54	0.25	8.23	229	2.5
DD018777		2.6	0.038	0.37	2.07	61	0.29	10.40	311	2.9
DD018778		3.0	0.034	0.20	1.46	64	0.38	8.71	364	3.1
DD018779		2.6	0.039	0.29	1.45	63	0.25	10.05	257	3.0
DD018780		2.6	0.033	0.23	1.11	60	0.24	9.90	268	3.0
DD018781		1.7	0.026	0.23	1.52	45	0.19	7.42	263	2.4
DD018782		3.0	0.030	0.26	1.17	53	0.34	9.70	234	3.8
DD018783		2.3	0.034	0.25	1.44	62	0.37	10.05	333	2.2
DD018784		1.9	0.029	0.22	1.02	59	1.09	12.85	194	2.1
DD018785		4.5	0.025	0.22	1.15	38	0.15	8.98	122	4.9
DD018786		2.8	0.044	0.33	1.88	102	0.26	12.60	395	3.7
DD018787		1.1	0.028	0.24	3.47	49	0.23	8.22	195	2.2
DD018788		1.6	0.024	0.18	2.52	52	0.36	9.81	191	2.2
DD018789		1.9	0.030	0.20	0.68	48	2.06	7.45	166	1.8
DD018790		3.1	0.032	0.21	1.09	48	1.07	8.54	163	2.7
DD020781		1.4	0.034	0.22	0.89	49	1.70	7.27	207	1.7
DD020782		1.5	0.026	0.15	1.23	35	2.50	6.46	193	1.2
DD020783		0.8	0.032	0.17	2.20	44	0.96	6.24	685	1.1
DD020784		0.5	0.026	0.17	5.07	39	0.75	6.72	594	1.2
DD020785		0.9	0.030	0.14	1.86	38	0.66	6.51	250	1.2
DD020786		0.6	0.013	0.08	0.88	19	1.16	3.25	285	0.7
DD020787		0.8	0.025	0.12	0.96	33	1.11	6.07	141	1.1
DD020788		1.0	0.031	0.18	1.00	35	1.53	6.35	168	1.2



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**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.1	
DD020789		0.22	0.006		0.18	0.88	14.2	<0.2	<10	290	0.35	0.78	7.90	0.70	18.50	8.2
DD020790		0.31	0.012		0.20	0.78	18.0	<0.2	<10	180	0.31	1.47	6.95	0.46	17.40	7.9
DD020791		0.18	0.005		0.20	0.95	20.4	<0.2	<10	220	0.41	1.54	4.26	0.58	19.05	9.1
DD020792		0.30	0.009		0.17	1.03	25.2	<0.2	<10	270	0.36	1.00	4.84	0.43	18.60	11.3
DD020793		0.15	0.005		0.16	1.48	51.6	<0.2	<10	250	0.37	1.14	1.97	0.36	19.85	15.8
DD020794		0.31	0.005		0.22	1.45	28.5	<0.2	<10	260	0.44	1.17	1.47	0.35	23.2	13.2
DD020795		0.19	0.007		0.16	1.37	15.4	<0.2	<10	400	0.35	0.72	3.02	0.70	13.90	13.2
DD020796		0.26	0.004		0.17	1.00	19.4	<0.2	<10	200	0.37	0.84	3.50	0.38	23.3	12.3
DD020797		0.36	0.005		0.23	1.19	19.5	<0.2	<10	270	0.45	1.33	5.56	0.53	18.10	8.1
DD020798		0.20	0.010		0.33	0.40	28	<0.2	<10	260	0.20	2.22	10.80	0.92	8.67	4.3
DD020799		0.20	0.004		0.30	1.05	18.3	<0.2	<10	320	0.47	1.89	5.56	1.20	12.85	6.6

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD020789		17	2.84	25.1	1.87	2.45	<0.05	0.07	0.04	0.020	0.17	9.3	9.1	1.57	356	1.28
DD020790		15	2.55	24.4	1.84	2.25	<0.05	0.06	0.03	0.022	0.08	8.8	9.3	3.01	321	0.95
DD020791		18	1.85	22.4	2.16	2.65	<0.05	0.05	0.04	0.023	0.08	9.4	9.6	1.89	392	1.01
DD020792		29	1.26	24.7	2.30	2.87	<0.05	0.05	0.03	0.021	0.06	9.2	10.1	2.44	425	1.25
DD020793		57	1.60	39.8	2.97	4.43	0.05	0.05	0.05	0.025	0.05	9.6	13.1	1.30	419	0.92
DD020794		41	2.35	42.8	2.70	4.27	0.05	0.06	0.04	0.026	0.07	12.4	15.9	1.19	220	0.83
DD020795		50	1.87	56.2	2.57	4.25	<0.05	0.06	0.06	0.026	0.06	7.7	12.9	1.13	362	0.97
DD020796		23	1.20	32.1	2.61	2.85	<0.05	0.06	0.05	0.023	0.06	13.3	10.9	1.30	353	1.17
DD020797		23	1.13	20.4	2.30	3.33	<0.05	0.04	0.06	0.027	0.06	9.2	10.9	3.58	376	1.37
DD020798		9	0.31	9.8	1.17	1.20	<0.05	0.03	0.04	0.040	0.03	4.4	4.1	6.91	387	0.63
DD020799		19	0.99	16.3	2.02	2.74	<0.05	0.03	0.06	0.023	0.06	7.2	8.2	3.13	627	0.92

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
DD020789		0.02	0.76	27.8	750	14.3	16.8	<0.001	0.05	0.91	1.8	0.8	0.4	132.0	<0.01	0.02
DD020790		0.01	0.58	22.7	800	17.6	10.3	0.002	0.05	0.82	1.7	2.0	0.5	94.3	<0.01	0.02
DD020791		0.02	0.68	26.5	840	20.4	9.9	0.003	0.09	0.92	1.8	2.2	0.6	69.3	<0.01	0.02
DD020792		0.02	0.63	35.0	800	18.4	7.2	<0.001	0.06	0.93	2.2	1.2	0.4	66.5	<0.01	0.03
DD020793		0.01	0.78	54.6	610	15.2	6.6	0.001	0.09	0.99	3.0	0.7	0.4	44.0	<0.01	0.02
DD020794		0.01	0.76	45.3	690	21.2	9.5	0.002	0.09	1.08	3.4	1.3	0.6	38.6	<0.01	<0.01
DD020795		0.02	0.70	57.8	620	14.8	10.3	0.001	0.10	1.13	2.8	1.5	0.4	74.5	<0.01	0.02
DD020796		0.01	0.48	39.0	730	15.0	8.1	0.001	0.07	0.90	2.2	1.6	0.4	77.3	<0.01	0.02
DD020797		0.02	0.87	26.3	950	23.5	8.4	0.001	0.03	0.90	3.0	0.5	0.5	35.0	<0.01	0.03
DD020798		0.02	0.30	12.4	670	79.4	3.6	0.002	0.05	0.97	1.1	0.9	0.6	38.3	<0.01	0.02
DD020799		0.02	0.68	20.1	1240	31.0	6.6	<0.001	0.06	1.03	1.5	0.4	0.6	31.9	<0.01	0.02

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**CERTIFICATE OF ANALYSIS WH12133731**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020789		2.6	0.042	0.22	1.11	23	0.67	8.83	126	3.0
DD020790		2.6	0.033	0.17	0.85	21	0.76	9.22	130	1.8
DD020791		2.0	0.033	0.16	1.31	26	1.05	8.82	136	1.9
DD020792		1.8	0.032	0.11	1.13	30	1.19	7.53	108	1.4
DD020793		1.7	0.046	0.11	1.85	41	0.32	6.89	112	1.8
DD020794		2.9	0.046	0.13	2.18	38	0.51	10.65	129	2.3
DD020795		1.1	0.042	0.14	2.33	38	0.38	7.63	106	2.1
DD020796		2.4	0.027	0.12	1.40	24	0.44	10.00	96	2.0
DD020797		1.8	0.032	0.13	0.60	40	1.53	7.43	139	1.3
DD020798		0.7	0.014	0.07	1.33	20	0.70	3.51	256	0.8
DD020799		0.5	0.021	0.10	0.79	33	0.94	6.29	301	0.9

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**CERTIFICATE OF ANALYSIS WH12133731**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12133732**

Project: ATAC- Regional  
 P.O. No.: F  
 This report is for 233 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018904		0.16	0.002	0.05	0.54	24.2	<0.2	<10	110	1.36	0.39	0.83	0.40	11.55	14.8	7
DD018905		0.22	0.002	0.04	1.92	9.0	<0.2	<10	150	0.69	0.28	0.08	0.11	22.1	7.8	25
DD018906		0.14	0.003	0.08	0.88	8.9	<0.2	<10	220	0.56	0.21	1.32	0.29	12.10	8.7	11
DD018907		0.14	0.002	0.02	1.23	8.3	<0.2	<10	150	0.29	0.26	0.20	0.21	19.15	4.0	19
DD018908		0.22	0.003	0.26	1.29	1.9	<0.2	<10	200	1.52	0.36	0.49	0.23	17.00	12.4	11
DD018909		0.18	0.004	0.09	1.08	15.3	<0.2	<10	120	1.18	0.27	0.49	0.22	13.65	7.9	14
DD018910		0.25	0.002	0.11	0.99	26.0	<0.2	<10	80	1.04	0.29	0.41	0.33	12.20	10.2	18
DD018911		0.16	0.003	0.29	1.20	28.8	<0.2	<10	130	0.77	0.19	6.03	1.92	16.65	6.7	23
DD018912		0.28	0.002	0.34	0.67	17	<0.2	<10	50	0.70	0.08	14.25	3.76	6.58	3.4	15
DD018913		0.17	0.003	0.11	1.64	84.8	<0.2	<10	190	1.07	0.30	0.60	0.91	28.6	10.5	28
DD018914		0.22	0.002	0.10	1.46	35.0	<0.2	<10	160	0.88	0.27	1.35	0.69	27.6	7.9	26
DD018915		0.22	0.002	0.13	1.24	16.7	<0.2	<10	160	0.63	0.20	6.19	0.56	21.3	7.4	20
DD018916		0.18	0.003	0.11	1.64	15.5	<0.2	<10	220	0.79	0.25	1.99	0.41	31.4	9.0	27
DD018917		0.33	0.002	0.12	1.81	30.2	<0.2	<10	200	1.22	0.28	3.23	0.89	35.7	10.8	30
DD018918		0.28	0.002	0.18	1.43	26.3	<0.2	<10	180	0.93	0.23	4.79	1.08	25.9	9.9	22
DD018919		0.30	0.003	0.16	0.98	14	<0.2	<10	150	0.87	0.17	10.95	0.91	11.10	8.7	12
DD018920		0.18	0.001	0.10	2.25	12.6	<0.2	<10	260	1.20	0.26	1.10	1.35	30.9	9.7	33
DD018921		0.23	0.002	0.09	2.15	23.1	<0.2	<10	210	1.23	0.24	1.33	0.37	31.7	10.5	34
DD018922		0.28	0.002	0.04	1.77	15.3	<0.2	<10	230	0.73	0.26	0.85	0.26	22.8	11.0	25
DD018923		0.21	0.003	0.18	2.04	19.3	<0.2	<10	200	1.11	0.26	0.78	0.47	34.4	8.6	33
DD018924		0.20	0.002	0.12	2.08	20.6	<0.2	<10	230	1.13	0.28	0.59	0.62	49.3	10.8	35
DD018925		0.32	0.001	0.08	1.53	14.5	<0.2	<10	240	0.82	0.27	0.78	0.95	30.6	9.0	25
DD018926		0.16	0.002	0.06	1.61	13.0	<0.2	<10	230	0.47	0.28	0.56	0.74	27.6	8.1	25
DD018927		0.23	0.008	0.18	1.31	15.2	<0.2	<10	610	0.68	0.18	2.49	1.27	18.70	7.7	20
DD018928		0.30	0.005	2.70	1.25	52.0	<0.2	<10	830	0.71	0.33	0.32	2.61	18.20	3.7	25
DD018929		0.20	0.003	0.42	1.68	13.9	<0.2	<10	710	1.13	0.29	0.22	1.05	19.55	8.1	22
DD018930		0.09	NSS	0.13	0.86	12.9	<0.2	<10	220	0.45	0.12	3.77	8.16	12.50	4.9	17
DD018931		0.28	0.003	0.12	1.12	14.2	<0.2	<10	100	0.61	0.14	8.11	0.33	25.0	7.0	19
DD018932		0.27	0.003	0.03	0.30	17	<0.2	<10	70	0.29	0.08	17.90	0.13	17.20	4.5	9
DD018933		0.21	0.001	0.04	0.41	18	<0.2	<10	70	0.33	0.10	16.90	0.18	15.05	4.5	10
DD018934		0.20	0.001	0.04	0.55	22	<0.2	<10	80	0.51	0.17	14.35	0.17	20.1	8.1	14
DD018935		0.23	0.002	0.05	0.42	35	<0.2	<10	80	0.45	0.14	14.90	0.19	17.05	8.4	12
DD018936		0.28	0.002	0.06	0.62	29	<0.2	<10	140	0.53	0.15	13.10	0.24	19.90	8.1	15
DD018937		0.26	0.001	0.06	0.36	21	<0.2	<10	60	0.40	0.13	15.75	0.14	15.20	6.1	9
DD018938		0.24	0.002	0.05	0.33	23	<0.2	<10	90	0.43	0.17	15.00	0.22	17.05	7.4	10
DD018939		0.29	0.002	0.06	0.31	28	<0.2	<10	90	0.36	0.24	15.10	0.26	14.95	8.2	9
DD018940		0.21	0.001	0.02	0.17	13	<0.2	<10	70	0.29	0.13	17.05	0.10	15.90	5.3	6
DD018941		0.28	0.002	0.04	0.36	22	<0.2	<10	70	0.39	0.15	15.90	0.23	18.45	6.2	8
DD018942		0.20	0.001	0.02	0.24	15	<0.2	<10	110	0.32	0.14	16.55	0.13	15.65	5.1	7
DD018943		0.19	0.006	0.03	0.39	15	<0.2	<10	100	0.39	0.13	16.55	0.17	16.35	5.3	8

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Project: ATAC- Regional  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD018904		0.60	48.1	5.45	1.37	0.05	0.03	0.07	0.044	0.11	4.8	1.6	0.39	2170	1.56	0.01
DD018905		1.33	12.9	3.33	5.89	<0.05	0.02	0.04	0.029	0.08	10.2	19.1	0.37	333	1.02	0.01
DD018906		1.17	24.7	2.34	2.66	<0.05	0.04	0.08	0.032	0.08	4.8	5.4	0.30	543	0.94	0.01
DD018907		1.82	8.4	2.12	5.65	<0.05	<0.02	0.04	0.025	0.06	8.7	10.3	0.27	183	0.91	0.01
DD018908		2.66	52.3	3.86	3.96	0.05	0.09	0.03	0.071	0.21	4.5	10.2	0.29	1060	0.45	0.01
DD018909		4.25	22.2	3.58	3.28	0.05	0.10	0.04	0.062	0.16	5.1	7.9	0.30	416	0.66	0.01
DD018910		1.67	21.6	3.69	3.03	<0.05	0.08	0.04	0.053	0.16	5.4	7.7	0.31	510	0.80	0.01
DD018911		1.21	15.8	2.20	3.05	<0.05	0.06	0.19	0.023	0.09	7.6	7.6	3.47	587	0.69	0.02
DD018912		0.59	9.1	1.40	1.47	<0.05	0.04	0.17	0.010	0.03	2.7	3.9	8.62	1100	0.43	0.03
DD018913		1.23	14.5	3.95	4.55	<0.05	0.07	0.09	0.040	0.10	9.1	11.2	0.46	958	1.37	0.01
DD018914		1.18	15.1	3.32	4.09	<0.05	0.04	0.09	0.035	0.09	13.4	11.3	0.79	359	1.27	0.01
DD018915		0.85	12.0	2.28	3.45	<0.05	0.04	0.07	0.023	0.07	9.4	9.4	3.59	437	0.90	0.02
DD018916		0.92	12.8	3.13	4.55	<0.05	0.05	0.06	0.026	0.07	14.9	11.8	1.20	639	1.02	0.02
DD018917		1.17	16.3	3.35	4.75	0.05	0.06	0.10	0.038	0.11	14.2	14.5	1.87	555	1.40	0.02
DD018918		1.40	19.7	3.09	3.66	0.05	0.06	0.15	0.034	0.12	11.0	11.7	2.81	609	0.96	0.01
DD018919		1.65	25.2	2.07	2.43	<0.05	0.07	0.15	0.026	0.12	5.1	9.0	2.82	360	0.65	0.02
DD018920		1.40	13.1	3.49	6.57	0.05	0.06	0.05	0.039	0.09	16.3	11.3	0.40	639	0.84	0.01
DD018921		1.85	14.2	3.36	5.85	0.05	0.10	0.07	0.037	0.08	13.9	16.4	0.90	423	1.06	0.01
DD018922		1.96	14.3	3.17	5.57	<0.05	0.04	0.03	0.033	0.08	10.1	18.6	0.40	779	1.08	0.01
DD018923		1.97	13.9	3.28	5.61	0.05	0.05	0.09	0.036	0.08	16.9	15.8	0.49	351	0.95	0.01
DD018924		1.68	16.5	3.48	5.32	0.06	0.06	0.06	0.038	0.08	18.6	15.4	0.56	644	1.67	0.01
DD018925		1.28	13.2	3.51	4.36	0.06	0.04	0.04	0.033	0.07	13.9	12.1	0.40	667	0.86	0.01
DD018926		1.69	8.7	2.70	6.05	<0.05	0.02	0.04	0.030	0.06	11.4	14.0	0.34	489	1.20	0.01
DD018927		0.70	15.6	2.25	3.52	0.05	0.04	0.16	0.024	0.04	9.5	7.8	0.24	517	1.91	0.01
DD018928		1.52	22.5	2.51	3.65	0.12	0.04	0.21	0.038	0.22	9.6	6.0	0.17	211	39.2	0.01
DD018929		1.76	22.1	3.07	4.79	0.05	0.05	0.09	0.041	0.11	8.9	11.0	0.21	585	5.44	0.01
DD018930		0.75	16.8	1.36	2.30	<0.05	0.04	0.17	0.017	0.05	7.8	5.5	0.29	283	1.27	0.02
DD018931		0.62	15.3	1.95	2.78	<0.05	0.05	0.05	0.019	0.04	11.9	10.7	4.80	309	1.61	0.02
DD018932		2.75	6.9	1.09	0.77	<0.05	0.03	0.16	0.012	0.08	7.2	3.0	9.68	96	2.62	0.03
DD018933		2.52	7.7	1.00	0.98	<0.05	0.04	0.05	0.012	0.06	6.7	4.2	9.22	136	1.31	0.03
DD018934		3.10	12.2	1.72	1.43	<0.05	0.07	0.04	0.021	0.13	8.6	4.6	7.45	162	3.10	0.03
DD018935		4.55	17.9	1.74	1.06	<0.05	0.06	0.09	0.020	0.11	7.1	3.8	7.82	141	4.26	0.03
DD018936		1.99	18.2	1.76	1.55	<0.05	0.07	0.04	0.021	0.11	9.0	5.3	6.97	162	3.97	0.03
DD018937		2.29	13.6	1.21	0.89	<0.05	0.04	0.05	0.015	0.09	6.3	3.0	8.50	148	4.13	0.03
DD018938		2.65	14.8	1.68	0.85	<0.05	0.03	0.10	0.017	0.09	7.1	2.7	7.80	132	6.93	0.02
DD018939		2.29	21.7	2.17	0.80	<0.05	0.04	0.21	0.020	0.08	6.1	2.3	7.87	125	3.10	0.02
DD018940		3.11	7.6	1.49	0.40	<0.05	0.04	0.07	0.012	0.07	6.7	1.5	9.19	146	2.59	0.03
DD018941		2.70	12.7	1.37	0.85	<0.05	0.04	0.03	0.015	0.09	7.8	3.0	8.43	137	3.29	0.03
DD018942		1.53	7.7	1.36	0.59	<0.05	0.03	0.04	0.016	0.08	6.6	1.8	8.81	140	2.42	0.03
DD018943		1.64	8.2	1.27	0.92	<0.05	0.05	0.02	0.018	0.09	7.1	2.7	8.71	158	2.20	0.03

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD018904		0.09	42.6	300	30.4	4.6	0.001	0.10	0.57	7.1	0.7	0.5	17.3	<0.01	0.05	3.8
DD018905		0.71	15.5	250	18.6	13.2	<0.001	0.04	0.41	2.9	0.2	0.7	8.0	<0.01	0.03	3.2
DD018906		0.38	13.5	1300	21.7	9.9	0.001	0.14	0.50	2.7	0.8	0.5	27.8	<0.01	0.13	0.7
DD018907		0.90	11.0	420	14.9	9.7	0.001	0.05	0.43	1.8	0.2	0.7	10.6	<0.01	0.10	1.2
DD018908		0.20	32.2	600	7.7	15.5	<0.001	0.06	0.30	11.2	1.4	0.7	13.7	<0.01	0.44	3.6
DD018909		0.25	18.7	460	38.6	14.5	0.001	0.05	1.73	8.0	0.9	0.5	11.5	<0.01	0.16	2.7
DD018910		0.29	19.8	600	41.4	10.3	0.001	0.06	1.75	7.1	1.1	0.5	12.0	<0.01	0.11	2.3
DD018911		0.41	17.1	2310	92.7	8.2	0.001	0.09	2.74	2.8	0.9	0.4	56.8	<0.01	0.08	0.9
DD018912		0.14	13.9	1310	274	3.4	0.001	0.11	1.95	0.9	0.7	0.2	85.8	<0.01	0.03	0.3
DD018913		0.55	20.4	450	98.8	12.6	<0.001	0.05	2.96	5.1	0.7	0.6	15.6	<0.01	0.05	3.0
DD018914		0.69	21.7	550	56.5	11.4	0.001	0.05	1.71	3.9	0.5	0.5	20.7	<0.01	0.05	2.2
DD018915		0.58	17.1	590	25.1	7.5	0.001	0.07	0.88	2.3	0.7	0.4	50.7	<0.01	0.05	1.1
DD018916		0.66	20.8	520	19.3	7.8	<0.001	0.07	0.72	3.3	0.6	0.5	21.3	<0.01	0.04	1.9
DD018917		0.56	26.6	680	31.6	10.6	0.001	0.08	1.42	3.7	0.9	0.6	33.2	<0.01	0.04	1.7
DD018918		0.40	22.9	790	83.7	9.1	0.001	0.07	1.41	3.9	0.6	0.5	39.0	<0.01	0.06	1.8
DD018919		0.24	19.1	490	62.7	7.8	<0.001	0.05	1.18	4.5	0.6	0.4	107.5	<0.01	0.07	2.2
DD018920		0.77	26.7	450	30.8	10.1	<0.001	0.04	0.81	5.2	0.5	0.8	16.4	<0.01	0.04	2.1
DD018921		0.72	22.4	290	53.1	11.3	<0.001	0.03	1.17	6.1	0.6	0.7	20.0	<0.01	0.05	4.1
DD018922		0.72	21.4	500	34.3	13.5	<0.001	0.03	0.91	3.6	0.4	0.6	16.7	<0.01	0.04	2.2
DD018923		0.87	28.8	680	29.1	13.0	<0.001	0.04	0.83	4.4	0.6	0.6	16.9	<0.01	0.06	2.1
DD018924		0.81	26.4	720	30.8	14.7	<0.001	0.04	0.92	5.0	0.6	0.6	15.7	<0.01	0.05	2.1
DD018925		0.63	18.6	680	31.6	9.0	<0.001	0.05	0.72	3.7	0.4	0.5	14.7	<0.01	0.04	1.5
DD018926		1.02	14.5	490	20.3	15.1	<0.001	0.04	0.61	2.7	0.3	0.7	14.1	<0.01	0.05	1.3
DD018927		0.58	42.9	1340	12.3	4.6	<0.001	0.13	1.00	1.7	3.0	0.4	28.4	<0.01	0.06	0.4
DD018928		0.15	21.3	4250	26.9	13.2	0.006	0.33	7.79	0.8	20.6	0.9	59.8	<0.01	0.17	0.2
DD018929		0.42	29.7	1400	22.7	14.4	<0.001	0.07	1.46	2.6	2.2	0.7	22.8	<0.01	0.05	0.7
DD018930		0.50	68.8	1440	7.9	5.1	<0.001	0.18	0.81	1.2	1.2	0.3	31.7	<0.01	0.04	0.3
DD018931		0.48	20.4	720	9.3	5.1	0.001	0.05	0.85	2.4	0.7	0.3	53.1	<0.01	0.04	1.2
DD018932		0.12	10.7	230	6.2	4.7	0.001	0.04	0.45	2.5	0.4	0.3	150.0	<0.01	0.02	1.7
DD018933		0.20	10.2	320	6.1	4.7	<0.001	0.04	0.51	1.8	0.5	0.2	146.5	<0.01	0.03	1.2
DD018934		0.18	19.8	350	9.7	7.8	<0.001	0.06	0.46	2.8	0.5	0.4	143.0	<0.01	0.03	1.8
DD018935		0.16	22.1	300	11.3	6.2	0.001	0.06	0.66	2.7	0.5	0.4	157.0	<0.01	0.03	1.8
DD018936		0.23	22.2	420	10.5	6.8	0.001	0.06	0.70	2.7	0.6	0.4	140.5	<0.01	0.03	1.5
DD018937		0.14	15.1	210	8.7	5.2	0.001	0.05	0.58	2.4	0.4	0.2	164.0	<0.01	0.03	1.4
DD018938		0.13	22.3	180	11.3	5.0	0.001	0.04	1.15	2.8	0.4	0.2	144.0	<0.01	0.03	1.9
DD018939		0.14	18.4	200	16.0	4.2	0.002	0.04	1.72	3.0	0.6	0.3	127.5	<0.01	0.03	2.3
DD018940		0.07	10.0	90	8.5	4.0	0.001	0.06	0.37	2.3	0.4	0.2	126.0	<0.01	0.03	2.4
DD018941		0.15	15.8	230	11.2	5.4	<0.001	0.04	0.68	2.3	0.5	0.2	143.5	<0.01	0.03	1.6
DD018942		0.12	10.6	150	8.2	4.0	<0.001	0.04	0.58	2.2	0.4	0.2	120.0	<0.01	0.03	1.9
DD018943		0.15	12.0	210	8.2	5.1	<0.001	0.04	0.66	2.6	0.4	0.2	126.0	<0.01	0.03	1.5

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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 28- JUN- 2012  
 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018904		<0.005	0.62	0.62	24	<0.05	16.65	158	1.0
DD018905		0.012	0.19	0.57	51	0.16	3.05	69	0.7
DD018906		0.008	0.10	0.56	26	0.11	5.10	74	1.0
DD018907		0.021	0.14	0.43	48	0.23	2.14	50	<0.5
DD018908		<0.005	0.15	0.25	28	<0.05	14.90	41	2.0
DD018909		0.005	0.16	0.55	28	0.05	13.20	65	2.4
DD018910		0.007	0.19	0.49	31	0.08	11.40	95	2.0
DD018911		0.014	0.29	1.24	40	0.15	12.25	290	1.3
DD018912		0.006	0.14	0.40	20	0.05	5.27	918	1.5
DD018913		0.012	0.45	1.54	49	0.11	7.67	271	1.7
DD018914		0.020	0.33	0.97	44	0.22	8.99	201	1.2
DD018915		0.019	0.17	0.97	36	0.19	5.88	114	0.9
DD018916		0.022	0.19	1.06	48	0.16	8.86	89	1.1
DD018917		0.015	0.36	1.04	52	0.15	10.30	119	1.4
DD018918		0.011	0.27	0.79	37	0.12	10.00	247	1.6
DD018919		0.005	0.17	0.62	20	0.05	8.65	153	2.0
DD018920		0.016	0.22	0.91	69	0.19	12.30	180	1.3
DD018921		0.012	0.26	1.72	59	0.15	9.86	117	2.8
DD018922		0.016	0.20	0.63	51	0.19	4.32	114	1.0
DD018923		0.022	0.24	2.48	58	0.19	11.25	173	1.0
DD018924		0.023	0.23	1.61	56	0.21	12.00	293	1.1
DD018925		0.020	0.14	1.05	46	0.17	9.57	169	1.0
DD018926		0.026	0.18	0.87	59	0.29	4.25	110	<0.5
DD018927		0.015	0.27	3.33	50	0.25	10.50	128	1.0
DD018928		<0.005	3.57	12.80	272	0.16	11.60	78	1.0
DD018929		0.006	0.52	2.01	85	0.16	9.33	100	1.0
DD018930		0.014	0.32	3.80	37	0.15	10.60	328	1.3
DD018931		0.023	0.17	1.13	37	0.17	7.81	78	1.3
DD018932		<0.005	0.32	1.28	11	0.07	5.14	21	0.8
DD018933		0.007	0.42	1.18	14	0.05	5.03	31	1.3
DD018934		0.005	0.78	1.98	17	0.06	6.97	48	2.0
DD018935		<0.005	0.86	2.87	18	0.06	6.41	46	1.9
DD018936		0.007	0.91	2.25	23	0.08	7.22	54	2.1
DD018937		<0.005	1.05	1.99	13	0.05	5.31	31	1.3
DD018938		<0.005	1.42	1.30	11	0.05	5.37	42	1.2
DD018939		<0.005	1.02	1.35	14	<0.05	5.18	53	2.2
DD018940		<0.005	0.53	0.98	9	<0.05	6.34	28	2.0
DD018941		0.005	0.67	1.14	12	0.05	6.18	42	1.3
DD018942		<0.005	0.86	0.85	10	<0.05	5.94	35	1.3
DD018943		<0.005	0.62	0.66	12	<0.05	6.08	36	1.3



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**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018944		0.28	0.002	0.02	0.34	19	<0.2	<10	90	0.35	0.16	16.30	0.16	14.10	4.2	8
DD018945		0.24	0.002	0.14	0.33	110	<0.2	<10	50	0.34	0.06	17.45	0.25	8.90	5.5	8
DD018946		0.20	0.003	0.14	1.01	17.5	<0.2	<10	130	0.53	0.13	9.10	0.33	22.6	7.2	16
DD018947		0.23	0.003	0.09	0.74	17	<0.2	<10	100	0.47	0.11	12.15	0.26	17.10	5.1	13
DD018948		0.24	0.002	0.06	0.49	32	<0.2	<10	100	0.40	0.07	13.25	0.26	18.05	6.5	15
DD018949		0.21	0.002	0.10	0.70	43	<0.2	<10	220	0.52	0.10	11.05	0.30	23.9	8.7	17
DD018950		0.22	0.002	0.15	1.57	21.5	<0.2	<10	390	0.74	0.22	2.01	0.60	32.0	10.1	27
DD018951		0.13	0.002	0.11	0.65	71.4	<0.2	<10	230	0.84	0.14	6.58	0.43	24.5	14.3	20
DD018952		0.25	0.003	0.08	0.69	27	<0.2	<10	190	0.50	0.12	10.35	0.37	21.5	6.7	15
DD018953		0.21	0.001	0.09	0.97	18.4	<0.2	<10	120	0.63	0.13	7.84	0.48	22.9	7.0	17
DD018954		0.20	0.004	0.12	1.26	15.5	<0.2	<10	170	0.69	0.18	4.37	0.72	26.4	8.4	21
DD018955		0.24	0.003	0.07	0.66	11	<0.2	<10	90	0.50	0.08	11.95	0.24	16.90	5.0	13
DD018956		0.28	0.002	0.13	1.17	15.3	<0.2	<10	140	0.61	0.17	8.24	0.56	21.0	8.2	18
DD018957		0.19	0.003	0.10	0.86	12	<0.2	<10	120	0.53	0.14	11.00	0.31	16.10	6.3	13
DD018958		0.22	0.001	0.04	0.25	17	<0.2	<10	140	0.23	0.08	18.25	0.18	9.68	3.6	6
DD019591		0.41	0.002	0.09	1.13	24	<0.2	<10	140	0.70	0.17	10.00	0.23	20.8	9.1	16
DD019592		0.46	0.002	0.10	0.94	20	<0.2	<10	120	0.66	0.12	12.55	0.28	15.90	5.6	13
DD019593		0.37	0.001	0.09	0.64	10	<0.2	<10	80	0.42	0.09	15.25	0.20	12.20	4.3	9
DD019594		0.43	0.005	0.11	1.50	14.7	<0.2	<10	230	0.90	0.26	0.98	0.49	24.7	13.7	25
DD019595		0.58	0.002	0.09	1.08	12.5	<0.2	<10	150	0.69	0.20	6.43	0.25	21.5	9.1	17
DD019596		0.49	0.002	0.09	1.09	17.9	<0.2	<10	110	0.67	0.17	9.50	0.34	21.4	10.3	16
DD019597		0.51	0.003	0.07	1.31	12.6	<0.2	<10	170	0.81	0.19	5.78	0.24	21.3	9.1	19
DD019598		0.43	0.004	0.13	1.42	17.2	<0.2	<10	130	0.85	0.20	5.65	0.24	26.7	9.5	20
DD019599		0.23	0.001	0.06	1.92	10.9	<0.2	<10	350	1.24	0.30	1.42	0.23	46.6	11.8	34
DD019600		0.18	0.001	0.02	1.80	8.0	<0.2	<10	170	0.78	0.27	0.76	0.17	50.4	12.1	39
DD020006		0.15	0.001	0.08	1.54	7.1	<0.2	<10	140	0.80	0.25	1.00	0.10	22.9	10.0	22
DD020007		0.15	0.004	0.07	1.36	5.8	<0.2	<10	120	0.82	0.17	1.89	0.14	22.5	8.9	24
DD020008		0.41	0.001	0.13	1.31	9.1	<0.2	<10	110	0.62	0.28	0.10	0.22	19.55	14.0	21
DD020009		0.30	0.002	0.11	0.54	15.5	<0.2	<10	60	0.95	0.36	1.44	0.81	49.8	20.4	7
DD020010		0.26	0.003	0.10	1.27	14.7	<0.2	<10	280	0.72	0.27	1.02	0.22	24.2	12.3	17
DD020011		0.16	0.002	0.20	1.43	10.4	<0.2	<10	240	1.01	0.23	1.17	0.38	18.25	7.4	19
DD020012		0.20	0.001	0.93	0.30	14.1	<0.2	<10	60	0.73	0.22	7.02	0.87	7.93	6.9	6
DD020013		0.28	0.001	0.06	2.08	48.2	<0.2	<10	540	0.53	0.24	0.14	1.57	23.2	7.4	29
DD020014		0.24	0.002	0.15	1.28	31.3	<0.2	<10	100	1.10	0.31	0.56	0.86	15.40	10.4	20
DD020015		0.19	0.002	0.21	0.61	46.3	<0.2	<10	80	0.60	0.20	7.72	0.64	11.15	10.3	11
DD020016		0.28	0.002	0.21	1.51	102.0	<0.2	<10	160	1.19	0.23	6.95	0.76	28.1	9.9	24
DD020017		0.37	0.001	0.12	1.45	40.3	<0.2	<10	150	0.92	0.23	4.81	0.85	24.2	8.5	23
DD020018		0.30	0.002	0.07	0.58	132	<0.2	<10	70	0.59	0.09	12.75	0.36	13.60	4.0	12
DD020019		0.34	0.001	0.07	0.46	116	<0.2	<10	70	0.50	0.08	15.50	0.89	8.72	3.4	11
DD020020		0.41	0.004	0.14	1.38	26.2	<0.2	<10	130	0.72	0.23	3.87	0.47	30.1	8.5	24





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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD018944		3.00	6.6	1.18	0.76	<0.05	0.04	0.02	0.018	0.08	7.1	3.0	8.59	112	2.97	0.03
DD018945		0.52	7.3	2.29	0.71	<0.05	0.04	0.12	0.021	0.03	4.3	3.0	9.73	152	119.0	0.02
DD018946		0.67	12.4	1.81	2.41	<0.05	0.04	0.05	0.021	0.06	11.0	9.6	5.19	345	11.45	0.02
DD018947		0.69	9.0	1.36	1.70	<0.05	0.05	0.02	0.017	0.05	8.8	6.4	6.91	218	5.62	0.02
DD018948		0.62	10.6	2.10	1.14	<0.05	0.04	0.13	0.019	0.05	8.5	4.0	7.15	243	6.13	0.02
DD018949		0.90	11.8	2.44	1.75	<0.05	0.05	0.14	0.021	0.06	10.9	6.3	5.99	318	4.33	0.02
DD018950		0.98	16.4	3.05	4.22	0.05	0.05	0.08	0.033	0.07	15.6	11.9	1.14	537	2.77	0.02
DD018951		1.08	20.6	3.37	1.68	0.06	0.08	0.20	0.042	0.10	11.8	3.5	3.17	272	6.57	0.02
DD018952		0.74	10.6	1.83	1.75	<0.05	0.03	0.08	0.022	0.05	10.0	6.0	5.46	258	2.45	0.02
DD018953		0.75	11.2	1.89	2.35	<0.05	0.04	0.04	0.020	0.06	10.3	8.1	4.49	330	4.96	0.02
DD018954		0.81	12.3	2.31	3.21	<0.05	0.04	0.04	0.025	0.06	12.1	10.2	2.38	501	3.22	0.01
DD018955		0.93	12.4	1.28	1.68	<0.05	0.04	0.05	0.015	0.06	8.1	7.6	6.48	157	1.51	0.02
DD018956		0.84	21.4	2.09	2.89	<0.05	0.07	0.05	0.018	0.10	9.8	10.8	4.34	348	2.11	0.02
DD018957		0.76	17.6	1.66	2.30	<0.05	0.07	0.04	0.020	0.09	6.9	9.0	6.01	213	1.72	0.02
DD018958		0.65	8.5	0.97	0.63	<0.05	0.03	0.03	0.007	0.05	4.4	2.0	9.80	127	3.93	0.02
DD019591		1.15	19.8	2.26	3.01	<0.05	0.08	0.06	0.024	0.10	10.0	11.4	5.18	396	1.05	0.02
DD019592		0.87	12.4	1.45	2.32	<0.05	0.05	0.12	0.016	0.07	8.8	8.1	7.37	292	0.69	0.02
DD019593		0.57	8.2	0.99	1.39	<0.05	0.04	0.03	0.013	0.04	6.5	5.4	8.99	282	0.50	0.02
DD019594		2.39	26.3	3.34	4.06	0.05	0.06	0.05	0.032	0.17	11.6	16.1	0.54	437	0.89	0.01
DD019595		1.60	18.5	2.54	2.87	0.05	0.04	0.06	0.025	0.10	9.5	12.0	3.60	390	0.83	0.02
DD019596		1.66	22.1	2.33	3.00	<0.05	0.04	0.05	0.024	0.12	9.4	13.6	4.57	433	1.00	0.02
DD019597		1.46	21.7	2.56	3.46	<0.05	0.05	0.04	0.025	0.12	9.4	16.9	3.43	335	0.88	0.02
DD019598		1.02	16.8	2.80	3.73	<0.05	0.08	0.06	0.028	0.08	13.7	14.1	3.34	392	1.07	0.01
DD019599		0.82	21.9	3.30	5.92	0.08	0.08	0.03	0.043	0.13	24.5	21.9	0.81	325	0.59	0.01
DD019600		1.22	20.2	3.17	6.08	0.07	0.08	0.01	0.035	0.13	23.7	28.8	1.05	334	0.51	0.01
DD020006		1.37	18.3	2.87	4.84	<0.05	0.06	0.03	0.025	0.14	8.2	20.0	0.42	337	0.64	0.01
DD020007		0.81	19.3	2.32	3.94	0.05	0.08	0.07	0.028	0.11	9.5	21.8	0.98	372	0.67	0.01
DD020008		1.76	28.4	3.96	4.83	<0.05	<0.02	0.01	0.037	0.17	8.1	18.2	0.26	382	1.12	0.01
DD020009		0.72	71.3	3.87	1.61	0.09	0.07	0.10	0.047	0.13	25.0	4.8	0.66	1520	2.08	0.01
DD020010		1.44	35.7	3.14	3.62	0.05	0.05	0.06	0.046	0.11	10.0	11.0	0.42	507	1.27	0.01
DD020011		2.01	30.6	3.14	3.81	0.05	0.06	0.04	0.046	0.10	9.1	10.4	0.49	433	0.72	0.01
DD020012		2.12	20.9	3.41	0.70	<0.05	0.04	0.11	0.035	0.07	2.6	2.0	4.15	740	0.47	0.02
DD020013		1.21	11.2	3.43	6.36	<0.05	0.03	0.08	0.029	0.04	10.6	15.5	0.35	462	1.25	0.01
DD020014		2.10	24.0	3.87	3.34	0.05	0.08	0.08	0.055	0.13	6.8	9.2	0.45	696	0.83	0.01
DD020015		2.66	22.8	2.21	1.77	<0.05	0.05	0.37	0.039	0.10	4.5	5.5	4.66	562	1.07	0.02
DD020016		1.30	17.7	3.18	3.91	0.05	0.09	0.14	0.039	0.11	14.6	11.5	4.20	763	1.41	0.02
DD020017		1.00	14.8	2.86	3.70	<0.05	0.08	0.07	0.032	0.13	10.4	10.8	2.87	630	1.02	0.02
DD020018		0.64	7.2	1.38	1.37	<0.05	0.03	0.33	0.012	0.05	5.7	5.3	7.40	221	0.68	0.02
DD020019		0.50	8.5	1.22	1.17	<0.05	0.03	0.15	0.011	0.03	3.9	3.5	8.66	210	0.64	0.02
DD020020		0.86	11.9	2.60	3.73	0.05	0.03	0.20	0.025	0.07	13.8	11.8	2.29	388	0.99	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD018944		0.15	11.1	200	8.9	5.1	<0.001	0.04	0.53	2.1	0.4	0.2	123.5	<0.01	0.03	1.3
DD018945		0.17	54.4	300	6.2	2.8	0.003	0.04	6.09	1.2	1.1	0.4	99.1	<0.01	0.03	0.6
DD018946		0.40	23.4	590	9.7	5.8	<0.001	0.05	1.71	2.1	0.6	0.3	66.0	<0.01	0.03	0.9
DD018947		0.34	18.1	500	7.1	4.9	0.001	0.05	1.66	1.9	0.5	0.2	81.4	<0.01	0.03	0.8
DD018948		0.26	21.4	400	5.8	3.5	<0.001	0.06	1.27	2.9	0.6	0.2	94.7	<0.01	0.03	0.6
DD018949		0.38	22.3	460	9.5	4.6	0.001	0.05	1.97	3.2	0.6	0.3	82.9	<0.01	0.03	1.2
DD018950		0.66	24.7	650	15.9	8.4	<0.001	0.07	1.03	3.3	0.7	0.5	21.5	<0.01	0.04	1.1
DD018951		0.37	35.8	690	14.0	5.6	0.002	0.12	2.67	4.3	0.7	0.4	61.1	<0.01	0.09	1.0
DD018952		0.38	16.5	450	10.1	4.9	<0.001	0.03	1.25	2.6	0.4	0.3	80.1	<0.01	0.02	1.0
DD018953		0.37	18.9	830	10.9	6.7	<0.001	0.06	1.39	1.8	0.6	0.3	59.8	<0.01	0.04	0.7
DD018954		0.60	20.5	680	13.3	6.8	<0.001	0.06	1.09	2.4	0.6	0.4	39.2	<0.01	0.04	1.0
DD018955		0.50	15.6	510	7.0	4.3	<0.001	0.02	0.99	2.3	0.5	0.2	73.8	<0.01	0.03	2.1
DD018956		0.48	26.1	730	13.4	7.2	0.001	0.06	1.23	2.7	0.5	0.4	62.7	<0.01	0.02	1.5
DD018957		0.32	19.3	650	11.1	5.6	0.001	0.06	1.20	2.2	0.6	0.3	80.3	<0.01	0.01	1.0
DD018958		0.11	12.0	210	5.9	2.7	0.001	0.04	0.88	1.4	0.3	0.2	139.0	<0.01	0.02	0.9
DD019591		0.34	20.6	520	27.6	7.9	0.001	0.03	0.91	4.2	0.3	0.4	87.3	<0.01	<0.01	2.5
DD019592		0.32	13.7	520	13.6	7.2	0.001	0.03	0.91	2.3	0.6	0.3	85.6	<0.01	0.04	1.0
DD019593		0.22	9.2	590	8.5	5.3	<0.001	0.04	0.64	1.4	0.6	0.2	84.0	<0.01	0.01	0.6
DD019594		0.60	26.2	470	23.5	15.6	<0.001	0.05	0.80	4.6	0.8	0.6	22.8	<0.01	0.02	2.2
DD019595		0.39	20.7	490	19.2	7.9	<0.001	0.03	0.75	3.8	0.4	0.4	55.6	<0.01	0.03	2.5
DD019596		0.33	23.0	490	23.7	9.0	0.001	0.02	0.79	4.4	0.4	0.4	96.5	<0.01	0.02	3.1
DD019597		0.34	20.7	510	19.4	9.4	0.001	0.03	0.67	4.5	0.2	0.4	47.7	<0.01	0.02	2.9
DD019598		0.42	21.1	510	24.0	8.2	0.001	0.02	0.80	4.7	0.5	0.4	44.7	<0.01	0.02	3.1
DD019599		0.72	30.4	320	28.8	12.0	<0.001	0.03	0.47	6.3	0.7	0.7	42.8	<0.01	0.01	4.3
DD019600		0.63	27.6	280	21.5	13.6	<0.001	0.02	0.38	4.1	0.5	0.6	24.6	<0.01	0.02	5.8
DD020006		0.52	18.6	470	14.0	13.9	<0.001	0.05	0.40	3.2	<0.2	0.6	34.9	<0.01	0.02	2.4
DD020007		0.37	19.5	720	11.0	8.3	0.001	0.11	0.34	2.4	0.6	0.4	48.1	<0.01	0.02	1.6
DD020008		0.66	21.6	260	24.9	15.4	0.001	0.02	0.62	3.6	0.6	0.6	10.3	<0.01	0.03	2.1
DD020009		0.07	46.3	470	52.3	7.6	0.002	0.03	0.84	7.5	1.5	0.4	16.9	<0.01	0.10	2.5
DD020010		0.49	18.6	660	21.5	8.9	0.001	0.07	0.58	4.6	0.8	0.6	26.4	<0.01	0.17	1.3
DD020011		0.51	21.2	760	22.9	10.4	<0.001	0.07	0.70	5.3	0.5	0.6	23.8	<0.01	0.12	1.3
DD020012		0.05	15.3	400	84.3	5.6	<0.001	0.04	4.39	5.6	0.9	0.4	24.2	<0.01	0.05	1.7
DD020013		0.78	16.2	250	146.0	6.3	<0.001	0.02	4.41	2.7	<0.2	0.8	9.4	<0.01	0.03	2.6
DD020014		0.28	20.5	330	121.5	11.6	<0.001	0.03	4.23	7.3	0.5	0.6	10.7	<0.01	0.15	2.9
DD020015		0.19	20.0	420	90.9	7.8	<0.001	0.03	6.36	5.3	0.4	0.4	32.8	<0.01	0.14	1.6
DD020016		0.43	24.0	640	80.4	11.3	<0.001	0.05	3.36	5.8	1.1	0.5	49.0	<0.01	0.05	2.3
DD020017		0.56	19.6	610	66.7	9.9	0.001	0.05	1.93	4.0	0.5	0.5	34.8	<0.01	0.05	1.9
DD020018		0.30	11.3	570	16.0	4.1	0.001	0.03	4.42	1.4	<0.2	0.2	76.0	<0.01	0.02	1.0
DD020019		0.20	13.1	520	12.4	3.4	0.003	0.04	8.77	1.0	0.6	0.2	86.9	<0.01	<0.01	0.5
DD020020		0.70	22.2	490	19.0	8.0	0.001	0.05	1.54	3.0	0.5	0.5	32.2	<0.01	0.01	1.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018944		0.005	0.72	0.65	10	0.06	5.59	33	1.0
DD018945		0.007	1.10	1.24	16	0.37	3.71	36	1.4
DD018946		0.017	0.71	0.73	31	0.20	7.73	65	1.0
DD018947		0.014	0.66	0.78	23	0.09	6.59	58	1.4
DD018948		0.008	1.58	0.65	16	0.09	8.21	40	1.2
DD018949		0.012	2.49	0.57	24	0.17	9.05	50	1.5
DD018950		0.022	0.46	0.86	49	0.22	10.55	85	1.0
DD018951		0.005	2.33	2.40	23	0.07	17.30	79	3.0
DD018952		0.013	0.54	0.81	25	0.10	8.20	55	0.9
DD018953		0.015	0.52	1.20	32	0.16	7.28	68	0.8
DD018954		0.020	0.27	1.05	40	0.41	7.86	83	0.9
DD018955		0.022	0.43	1.48	25	0.18	6.45	52	1.5
DD018956		0.020	0.35	0.86	35	0.15	8.18	95	2.0
DD018957		0.011	0.31	0.92	25	0.09	6.77	73	1.9
DD018958		0.005	0.38	1.34	11	<0.05	4.31	27	0.9
DD019591		0.009	0.23	0.92	25	0.09	11.05	83	2.2
DD019592		0.011	0.18	0.50	21	0.09	9.70	68	1.4
DD019593		0.008	0.07	0.64	16	0.06	6.37	41	1.1
DD019594		0.018	0.20	0.95	37	0.11	9.07	154	1.5
DD019595		0.012	0.15	0.78	26	0.11	8.51	102	1.5
DD019596		0.011	0.31	0.99	23	0.08	9.03	123	2.0
DD019597		0.009	0.21	0.77	27	0.08	8.50	90	2.0
DD019598		0.010	0.18	0.94	32	0.16	12.30	77	2.3
DD019599		0.012	0.17	2.52	36	0.10	14.85	112	2.8
DD019600		0.016	0.15	1.67	37	0.06	5.98	97	3.4
DD020006		0.008	0.13	1.13	30	0.07	7.36	53	1.9
DD020007		0.007	0.09	1.14	23	0.05	7.72	62	2.4
DD020008		0.018	0.15	0.46	44	0.10	4.75	113	<0.5
DD020009		<0.005	0.17	0.87	12	<0.05	21.3	328	2.2
DD020010		0.011	0.12	0.94	37	0.09	9.30	60	1.0
DD020011		0.013	0.10	0.89	35	0.08	14.55	79	1.6
DD020012		<0.005	0.17	0.35	13	<0.05	16.50	105	1.4
DD020013		0.013	0.38	0.46	69	0.19	2.69	512	0.9
DD020014		0.005	0.24	0.54	37	0.09	12.45	255	2.0
DD020015		0.005	0.71	0.39	22	0.10	10.05	171	1.2
DD020016		0.009	0.51	1.06	41	0.12	18.25	217	2.5
DD020017		0.017	0.37	0.77	40	0.15	9.42	187	1.9
DD020018		0.015	3.03	1.23	22	0.22	4.33	63	0.8
DD020019		0.009	0.66	2.23	22	0.37	3.38	117	0.9
DD020020		0.025	0.29	0.89	41	0.30	7.96	82	0.9



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020021		0.36	0.001	0.10	1.09	11	<0.2	<10	160	0.52	0.17	10.05	0.34	20.5	7.2	17
DD020022		0.31	0.001	0.08	2.34	18.2	<0.2	<10	220	1.07	0.31	2.40	0.37	35.4	10.3	35
DD020023		0.38	0.002	0.11	1.00	24.2	<0.2	<10	160	0.75	0.22	8.44	0.47	25.5	10.2	18
DD020024		0.45	0.002	0.10	0.76	44	<0.2	<10	140	0.69	0.17	10.55	0.59	18.50	7.2	15
DD020025		0.52	0.004	0.11	0.79	54	<0.2	<10	170	0.64	0.17	11.80	0.38	16.35	6.6	13
DD020026		0.46	0.002	0.08	0.90	16	<0.2	<10	80	0.51	0.13	12.50	0.25	16.50	6.9	12
DD020027		0.40	0.002	0.06	1.61	20.2	<0.2	<10	230	0.97	0.28	4.36	0.32	31.6	10.1	24
DD020028		0.24	0.002	0.04	1.43	8.6	<0.2	<10	290	1.18	0.37	3.13	0.26	41.4	9.2	22
DD020029		0.42	0.001	0.18	0.56	12	<0.2	<10	80	0.43	0.09	15.40	0.27	11.80	4.4	9
DD020030		0.43	0.003	0.13	1.21	18.6	<0.2	<10	130	0.67	0.25	8.06	0.33	25.9	8.9	19
DD020031		0.34	0.002	0.16	1.28	15.7	<0.2	<10	140	0.79	0.21	8.05	0.70	22.6	8.6	21
DD020032		0.31	0.002	0.11	1.71	15.6	<0.2	<10	290	0.78	0.25	4.76	0.49	27.2	8.9	26
DD020033		0.37	0.001	0.06	1.69	17.9	<0.2	<10	210	0.95	0.25	3.50	0.41	41.2	10.7	29
DD020034		0.32	0.002	0.10	0.85	17	<0.2	<10	100	0.57	0.13	13.60	0.21	16.65	6.4	13
DD020035		0.28	0.002	0.13	1.51	17.0	<0.2	<10	160	0.83	0.24	4.97	0.33	28.0	9.0	24
DD020036		0.37	0.002	0.07	2.08	13.6	<0.2	<10	170	0.96	0.28	3.67	0.67	30.0	9.3	28
DD020037		0.41	0.002	0.08	1.80	17.6	<0.2	<10	250	0.99	0.25	3.99	0.50	29.1	9.5	26
DD020038		0.31	0.002	0.09	1.69	24.9	<0.2	<10	200	1.10	0.23	5.24	0.57	31.7	9.8	24
DD020039		0.39	0.002	0.14	1.47	20.8	<0.2	<10	140	0.77	0.22	6.41	0.39	26.8	9.9	24
DD020040		0.46	0.002	0.11	1.12	18.2	<0.2	<10	150	0.66	0.19	9.77	0.40	20.5	7.9	16
DD020045		0.31	0.004	0.10	0.93	12.8	<0.2	<10	100	0.47	0.19	8.68	0.32	19.80	6.6	15
DD020046		0.22	0.002	0.11	1.45	23.9	<0.2	<10	190	0.75	0.32	1.86	0.56	33.7	11.4	26
DD020047		0.24	0.001	0.04	1.83	18.9	<0.2	<10	230	0.86	0.32	0.93	0.63	34.1	11.6	29
DD020048		0.25	0.002	0.06	1.67	21.3	<0.2	<10	230	0.89	0.28	1.73	0.55	36.8	9.8	25
DD020049		0.26	0.002	0.06	1.62	20.0	<0.2	<10	260	0.79	0.27	3.24	1.13	25.8	8.5	23
DD020050		0.32	0.002	0.09	1.40	17.6	<0.2	<10	150	0.73	0.26	3.09	0.78	27.7	9.2	23
DD020051		0.23	0.001	0.12	2.23	38.0	<0.2	<10	210	1.40	0.34	1.16	1.44	35.7	12.1	36
DD020052		0.33	0.001	0.14	0.94	18	<0.2	<10	80	0.56	0.16	11.55	0.60	16.30	5.3	17
DD020053		0.31	0.001	0.08	0.60	17	<0.2	<10	80	0.49	0.12	15.30	0.34	10.60	3.9	11
DD020054		0.39	0.002	0.07	0.35	17	<0.2	<10	70	0.36	0.08	17.75	0.35	6.86	2.5	8
DD020055		0.36	0.005	0.21	1.39	22.6	<0.2	<10	220	0.93	0.23	5.87	1.46	20.6	9.6	23
DD020056		0.32	0.002	0.13	1.11	13.2	<0.2	<10	110	0.70	0.17	8.47	1.45	18.40	6.8	18
DD020057		0.29	0.001	0.13	1.84	20.4	<0.2	<10	160	1.08	0.24	5.26	1.45	21.2	10.4	29
DD020058		0.22	0.002	0.12	1.40	30.2	<0.2	<10	210	0.86	0.24	2.67	0.96	17.75	9.7	33
DD020059		0.25	0.001	0.19	1.66	14.9	<0.2	<10	140	0.75	0.24	5.81	4.09	19.90	7.6	25
DD020060		0.40	0.002	0.16	1.00	25.6	<0.2	<10	130	0.87	0.25	4.26	2.17	24.8	10.4	16
DD020061		0.24	0.002	0.15	1.42	14.3	<0.2	<10	190	0.71	0.26	5.86	2.05	23.0	8.5	50
DD020062		0.19	0.002	0.11	1.14	8.0	<0.2	<10	150	0.49	0.18	7.29	2.52	15.40	5.9	24
DD020063		0.22	0.001	0.11	1.84	18.5	<0.2	<10	370	0.96	0.31	1.55	2.51	31.1	11.2	29
DD020064		0.23	0.001	0.05	1.85	18.9	<0.2	<10	740	1.32	0.32	0.99	1.26	39.7	12.2	30

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020021		0.80	14.2	1.90	2.25	<0.05	0.06	0.06	0.019	0.08	8.8	7.3	5.31	308	2.63	0.02
DD020022		2.19	12.0	3.51	5.81	0.06	0.10	0.03	0.037	0.11	16.0	15.1	1.57	422	1.70	0.01
DD020023		1.85	20.7	2.81	2.36	<0.05	0.04	0.06	0.024	0.11	10.5	7.3	3.95	401	3.47	0.02
DD020024		1.33	16.1	1.92	1.89	<0.05	0.03	0.21	0.022	0.08	7.9	6.2	5.86	383	1.90	0.02
DD020025		2.55	16.2	1.93	2.06	<0.05	0.07	0.14	0.023	0.10	7.4	8.4	5.97	233	1.18	0.02
DD020026		0.76	15.6	1.83	2.12	<0.05	0.06	0.05	0.018	0.08	7.6	9.4	5.37	340	0.75	0.02
DD020027		1.28	14.5	3.25	3.89	0.05	0.06	0.03	0.031	0.10	11.5	13.3	2.39	677	1.91	0.01
DD020028		0.87	12.3	3.61	3.62	0.05	0.07	0.02	0.045	0.16	15.2	6.6	0.44	516	1.05	0.01
DD020029		0.63	8.8	1.00	1.51	<0.05	0.04	0.10	0.011	0.06	7.2	5.2	9.19	293	0.61	0.02
DD020030		1.15	13.8	2.24	3.45	<0.05	0.06	0.06	0.028	0.08	11.8	10.4	4.53	453	0.97	0.02
DD020031		0.95	16.0	2.12	3.48	<0.05	0.06	0.06	0.023	0.08	10.5	10.9	4.43	348	1.04	0.02
DD020032		0.90	14.9	2.60	4.76	<0.05	0.06	0.05	0.027	0.06	13.1	13.2	2.92	399	1.09	0.01
DD020033		1.16	12.9	2.89	5.11	<0.05	0.07	0.04	0.031	0.07	15.6	13.4	2.24	428	1.26	0.01
DD020034		0.82	12.0	1.62	2.20	<0.05	0.06	0.05	0.020	0.09	8.0	8.3	6.91	299	0.73	0.02
DD020035		0.87	14.2	2.70	4.06	0.05	0.06	0.07	0.029	0.08	13.3	12.6	2.94	413	1.02	0.01
DD020036		1.06	10.6	2.86	5.49	<0.05	0.06	0.04	0.030	0.06	13.8	14.5	2.35	537	1.02	0.01
DD020037		1.10	13.9	2.74	5.06	<0.05	0.06	0.06	0.030	0.07	12.6	15.6	2.33	406	1.11	0.02
DD020038		1.12	13.9	2.75	4.50	<0.05	0.08	0.07	0.033	0.07	13.5	14.2	2.61	446	1.25	0.01
DD020039		1.28	15.4	2.39	4.14	0.05	0.06	0.06	0.033	0.08	11.9	12.3	3.70	389	1.46	0.02
DD020040		2.11	16.1	1.87	2.93	<0.05	0.07	0.08	0.025	0.08	9.4	8.0	5.24	255	1.57	0.02
DD020045		0.58	11.5	1.80	2.33	<0.05	0.05	0.03	0.020	0.06	9.4	7.3	5.07	298	2.61	0.02
DD020046		1.07	19.1	3.01	4.14	<0.05	0.04	0.07	0.036	0.09	15.3	11.3	0.95	507	4.71	0.01
DD020047		1.25	13.7	3.16	5.53	<0.05	0.07	0.04	0.037	0.07	14.8	12.3	0.80	764	5.35	0.01
DD020048		0.98	15.9	2.87	4.72	<0.05	0.06	0.06	0.035	0.07	16.1	11.1	1.12	548	4.42	0.01
DD020049		0.88	15.2	2.62	4.35	<0.05	0.05	0.06	0.033	0.06	11.1	11.6	1.55	536	3.82	0.01
DD020050		0.95	15.0	2.63	3.84	<0.05	0.04	0.05	0.028	0.07	12.0	10.6	1.57	418	2.62	0.01
DD020051		1.52	20.6	3.68	6.65	0.05	0.06	0.11	0.046	0.07	17.8	14.9	0.69	859	1.37	0.01
DD020052		0.82	12.8	1.67	2.20	<0.05	0.05	0.05	0.016	0.05	7.7	6.5	6.75	182	1.28	0.02
DD020053		0.59	11.1	1.09	1.29	<0.05	0.07	0.03	0.013	0.06	4.8	4.9	9.03	176	0.90	0.03
DD020054		0.52	8.4	0.73	0.79	<0.05	0.07	0.04	0.008	0.04	3.1	2.5	10.45	136	1.07	0.02
DD020055		1.33	29.3	2.45	3.88	<0.05	0.05	0.22	0.028	0.10	11.1	12.2	3.02	388	1.39	0.02
DD020056		0.72	12.9	1.77	2.92	<0.05	0.04	0.04	0.020	0.06	10.1	8.1	4.61	381	0.92	0.02
DD020057		1.14	20.1	2.64	4.97	<0.05	0.11	0.04	0.035	0.14	10.4	14.6	3.42	544	1.02	0.01
DD020058		0.88	16.8	2.72	3.77	<0.05	0.04	0.08	0.028	0.08	10.0	11.9	0.93	324	2.54	0.01
DD020059		1.30	15.4	2.33	4.52	<0.05	0.06	0.12	0.029	0.07	11.3	10.0	3.50	374	1.52	0.01
DD020060		1.28	19.5	2.74	2.82	<0.05	0.06	0.11	0.034	0.09	12.8	8.8	2.31	566	1.35	0.01
DD020061		0.74	16.9	2.32	3.64	<0.05	0.05	0.05	0.029	0.10	16.5	9.2	1.56	568	1.61	0.01
DD020062		0.63	15.6	1.56	2.61	<0.05	0.04	0.08	0.019	0.06	12.3	6.4	1.32	613	1.16	0.02
DD020063		0.95	14.2	3.08	5.55	<0.05	0.08	0.05	0.038	0.13	14.4	12.6	0.99	605	1.78	0.01
DD020064		1.15	13.9	3.40	5.80	0.05	0.08	0.03	0.043	0.09	17.5	14.7	0.75	886	1.45	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
DD020021		0.27	21.8	1080	11.8	7.0	0.001	0.10	0.62	1.5	0.6	0.3	73.3	<0.01	0.01	0.7
DD020022		0.95	30.9	380	20.2	15.9	<0.001	0.05	0.71	5.2	0.7	0.8	24.0	<0.01	0.03	3.7
DD020023		0.23	30.0	920	17.8	7.8	0.001	0.11	0.86	1.8	0.3	0.4	67.0	<0.01	0.04	0.6
DD020024		0.24	19.8	690	44.7	5.6	<0.001	0.06	2.80	2.2	0.3	0.3	71.2	<0.01	0.03	0.7
DD020025		0.27	19.3	470	20.3	8.2	<0.001	0.04	1.48	3.0	0.5	0.3	86.2	<0.01	0.02	1.3
DD020026		0.23	15.7	520	18.3	5.4	0.001	0.04	0.68	3.0	0.3	0.3	124.5	<0.01	0.01	1.4
DD020027		0.55	24.8	200	24.2	10.8	<0.001	0.03	0.64	4.5	0.4	0.6	37.2	<0.01	<0.01	3.5
DD020028		0.40	25.2	150	22.0	11.3	<0.001	0.03	0.41	5.5	0.5	0.6	73.2	<0.01	0.01	4.9
DD020029		0.16	9.5	560	9.9	5.6	0.001	0.03	1.01	1.6	0.8	0.2	71.9	<0.01	<0.01	0.6
DD020030		0.53	19.1	400	18.7	8.4	0.001	0.03	0.86	3.9	0.8	0.5	63.3	<0.01	0.02	2.1
DD020031		0.52	22.4	800	16.7	8.6	0.001	0.04	1.02	2.8	0.7	0.5	60.1	<0.01	0.02	1.4
DD020032		0.70	24.0	480	18.2	8.9	0.002	0.03	0.86	4.0	1.0	0.6	35.0	<0.01	0.03	2.3
DD020033		0.77	24.3	220	19.8	9.4	0.001	0.01	1.00	5.8	0.8	0.6	32.2	<0.01	0.04	4.6
DD020034		0.24	14.3	500	13.7	6.4	0.001	0.03	0.69	3.1	0.6	0.3	114.5	<0.01	<0.01	1.4
DD020035		0.57	21.6	580	18.2	9.7	0.001	0.03	0.83	4.2	0.9	0.5	39.3	<0.01	0.02	2.1
DD020036		0.87	22.2	350	17.3	9.4	0.001	0.03	0.77	4.3	0.8	0.7	31.2	<0.01	0.02	2.9
DD020037		0.83	24.2	460	17.3	10.4	0.001	0.04	0.89	4.0	1.4	0.6	35.4	<0.01	0.01	2.6
DD020038		0.62	22.9	550	18.9	9.7	0.001	0.05	1.08	4.2	0.9	0.6	43.1	<0.01	0.01	2.3
DD020039		0.72	25.8	580	15.5	9.5	0.002	0.04	0.89	3.8	0.8	0.5	55.2	<0.01	0.02	2.1
DD020040		0.37	22.3	970	11.5	8.8	0.001	0.09	0.61	2.0	1.1	0.5	83.2	<0.01	0.02	0.9
DD020045		0.37	18.1	560	8.3	5.1	0.001	0.05	0.99	2.1	0.3	0.4	55.0	<0.01	<0.01	1.1
DD020046		0.58	29.6	710	16.3	8.9	0.001	0.06	1.17	2.9	0.9	0.6	27.0	<0.01	0.03	1.2
DD020047		1.02	26.5	300	16.3	11.2	0.001	0.02	1.02	4.4	0.5	0.7	16.3	<0.01	0.03	3.5
DD020048		0.76	26.2	330	14.3	8.7	0.001	0.03	1.73	4.7	1.1	0.6	20.2	<0.01	0.02	3.3
DD020049		0.77	23.9	670	14.7	8.0	0.001	0.06	1.60	2.8	0.9	0.6	34.1	<0.01	0.04	1.1
DD020050		0.66	24.7	600	15.2	7.9	0.001	0.06	1.27	2.8	0.8	0.5	31.1	<0.01	0.03	1.3
DD020051		1.05	29.3	600	44.1	14.0	<0.001	0.05	2.02	5.0	1.1	0.8	17.7	<0.01	0.05	2.2
DD020052		0.32	18.2	770	13.4	4.8	0.001	0.06	1.37	1.7	0.6	0.3	66.0	<0.01	0.02	0.9
DD020053		0.18	12.1	630	10.7	4.0	0.002	0.05	1.26	1.3	0.8	0.2	102.5	<0.01	0.03	0.7
DD020054		0.12	11.6	410	8.0	2.8	0.002	0.03	1.29	0.9	0.8	0.2	109.5	<0.01	0.01	0.6
DD020055		0.48	55.9	900	41.2	8.5	0.001	0.04	1.35	2.9	1.4	0.5	45.6	<0.01	0.04	0.8
DD020056		0.34	24.8	870	15.0	6.3	0.001	0.06	0.82	1.5	0.9	0.4	47.0	<0.01	0.03	0.6
DD020057		0.40	25.7	790	41.5	11.7	0.001	0.07	1.32	3.9	0.9	0.7	35.4	<0.01	0.05	1.7
DD020058		0.35	28.7	870	31.9	6.5	0.001	0.07	1.32	1.8	1.1	0.5	26.0	<0.01	0.02	0.5
DD020059		0.65	57.8	780	20.5	10.5	0.001	0.04	1.18	3.1	1.0	0.6	34.8	<0.01	0.04	1.2
DD020060		0.25	51.8	740	37.9	9.3	0.001	0.04	1.58	4.4	1.0	0.4	36.5	<0.01	0.02	1.4
DD020061		0.56	31.5	1170	15.7	7.7	0.001	0.09	0.94	2.0	1.2	0.6	39.2	<0.01	0.04	0.7
DD020062		0.43	19.6	1980	10.1	5.8	0.001	0.14	0.66	0.8	1.2	0.4	44.0	0.01	0.03	0.2
DD020063		0.96	43.6	540	20.2	13.9	<0.001	0.04	1.23	4.8	0.9	0.7	18.4	<0.01	0.05	2.8
DD020064		0.91	29.2	290	32.3	11.8	0.001	0.03	1.31	5.9	0.4	0.7	15.1	<0.01	0.02	3.9

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020021		0.009	0.24	1.29	24	0.10	7.44	71	1.4
DD020022		0.017	0.23	1.07	56	0.16	9.63	98	2.5
DD020023		0.007	0.35	1.31	28	0.10	9.56	96	1.1
DD020024		0.009	0.62	1.17	24	0.14	8.01	172	1.0
DD020025		0.008	0.96	0.72	21	0.10	7.64	350	1.7
DD020026		0.007	0.19	0.88	21	0.06	8.05	65	1.9
DD020027		0.011	0.37	0.67	39	0.09	8.95	94	1.9
DD020028		0.005	0.26	0.54	33	0.06	13.00	87	2.5
DD020029		0.006	0.11	0.49	12	0.05	7.41	36	1.5
DD020030		0.013	0.20	0.54	31	0.13	9.70	64	1.8
DD020031		0.019	0.18	0.96	33	0.18	8.40	94	1.7
DD020032		0.017	0.20	0.91	45	0.18	9.16	94	1.7
DD020033		0.022	0.19	0.94	47	0.19	9.43	108	2.5
DD020034		0.007	0.15	0.88	19	0.07	8.44	49	2.0
DD020035		0.016	0.19	0.66	39	0.20	10.75	95	1.9
DD020036		0.018	0.20	0.82	52	0.17	8.24	135	1.9
DD020037		0.017	0.29	0.97	46	0.14	7.57	82	1.9
DD020038		0.012	0.52	0.86	42	0.13	9.78	101	2.2
DD020039		0.019	0.75	0.95	37	0.18	8.82	73	1.7
DD020040		0.009	0.47	1.16	24	0.11	8.28	65	2.0
DD020045		0.015	0.33	0.53	27	0.27	6.76	61	1.4
DD020046		0.017	0.51	0.95	46	0.16	9.48	95	1.2
DD020047		0.028	0.35	0.67	54	0.26	6.90	90	1.6
DD020048		0.015	0.40	0.58	50	0.23	9.82	82	1.9
DD020049		0.018	0.35	1.52	50	0.12	7.26	115	1.6
DD020050		0.020	0.31	1.06	46	0.17	7.84	101	1.4
DD020051		0.023	0.38	2.53	70	0.18	11.95	186	1.7
DD020052		0.014	0.49	1.59	29	0.09	6.33	75	1.6
DD020053		0.009	0.39	1.81	20	0.05	3.72	63	2.1
DD020054		0.006	0.37	1.38	16	<0.05	2.64	63	1.8
DD020055		0.014	0.35	0.91	43	0.14	13.85	293	1.4
DD020056		0.012	0.17	0.86	41	0.15	10.55	166	1.3
DD020057		0.008	0.24	0.81	42	0.14	11.25	205	3.0
DD020058		0.009	0.23	1.09	73	0.10	11.10	144	0.9
DD020059		0.014	0.34	0.87	56	0.14	11.60	300	1.8
DD020060		0.008	0.30	1.14	32	0.12	15.40	293	1.7
DD020061		0.016	0.16	1.38	71	0.13	21.5	154	1.3
DD020062		0.012	0.13	2.00	45	0.10	19.25	210	1.2
DD020063		0.019	0.34	0.67	65	0.22	13.30	180	2.6
DD020064		0.019	0.25	1.13	59	0.15	11.75	140	2.4



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020065		0.51	0.001	0.07	0.68	18	<0.2	<10	90	0.50	0.12	11.95	0.30	21.6	6.3	14
DD020066		0.29	0.002	0.09	0.74	14.7	<0.2	<10	120	0.45	0.13	9.65	0.33	16.25	6.6	14
DD020067		0.28	0.001	0.13	1.36	15.1	<0.2	<10	230	0.66	0.25	2.23	0.52	29.2	9.7	23
DD020068		0.37	0.005	0.19	1.40	15.8	<0.2	<10	190	0.62	0.25	3.72	0.54	30.2	10.9	25
DD020069		0.39	0.002	0.14	1.26	15.1	<0.2	<10	180	0.60	0.18	5.90	0.56	24.7	9.7	22
DD020070		0.33	0.001	0.08	1.81	16.5	<0.2	<10	230	0.85	0.26	1.99	0.75	35.0	11.6	30
DD020071		0.27	0.002	0.13	1.07	20.1	<0.2	<10	170	0.57	0.15	6.36	0.44	21.6	7.7	18
DD020072		0.35	0.001	0.06	0.43	38	<0.2	<10	110	0.33	0.09	15.30	0.27	15.55	7.2	14
DD020073		0.44	0.002	0.13	1.09	15.5	<0.2	<10	140	0.57	0.15	6.22	0.59	25.2	8.3	20
DD020074		0.19	0.002	0.11	1.40	18.0	<0.2	<10	190	0.76	0.19	5.66	0.67	24.4	8.2	22
DD020075		0.39	0.001	0.03	0.32	4	<0.2	<10	50	0.16	0.04	18.10	0.39	5.41	2.0	6
DD020076		0.25	0.007	0.18	1.15	16.4	<0.2	<10	140	0.58	0.16	2.99	0.43	27.2	8.3	20
DD020077		0.30	0.002	0.12	0.91	29.1	<0.2	<10	140	0.52	0.14	7.44	0.47	21.0	8.4	17
DD020078		0.28	0.002	0.02	0.26	8	<0.2	<10	50	0.21	0.10	16.75	0.14	12.30	3.8	6
DD020079		0.24	0.001	0.15	1.97	15.4	<0.2	<10	180	1.12	0.23	1.09	0.40	40.1	11.7	32
DD020341		0.22	0.002	0.08	0.63	55.4	<0.2	<10	530	0.55	0.14	5.67	0.50	17.10	13.1	31
DD020342		0.28	0.001	0.05	0.78	43.2	<0.2	<10	330	0.66	0.13	8.86	0.36	21.4	10.8	19
DD020343		0.33	0.002	0.12	0.99	44.3	<0.2	<10	160	0.66	0.22	6.11	0.47	23.1	10.7	19
DD020344		0.37	0.001	0.12	1.22	14.2	<0.2	<10	170	0.63	0.17	6.08	0.46	21.9	8.6	20
DD020345		0.29	0.002	0.17	1.37	17.3	<0.2	<10	160	0.65	0.20	4.46	0.52	26.1	9.8	22
DD020346		0.29	0.001	0.10	1.57	12.6	<0.2	<10	120	0.96	0.16	9.00	0.94	21.8	7.6	22
DD020347		0.28	0.001	0.15	1.47	13.4	<0.2	<10	180	0.75	0.19	6.52	0.60	23.6	8.4	23
DD020348		0.48	0.001	0.07	0.86	15	<0.2	<10	140	0.52	0.11	13.05	0.35	16.00	6.7	13
DD020349		0.33	0.002	0.17	0.98	10.9	<0.2	<10	150	0.56	0.14	6.96	0.34	21.0	8.3	18
DD020350		0.39	0.001	0.10	0.94	15	<0.2	<10	140	0.62	0.13	10.70	0.58	16.80	7.7	16
DD020521		0.36	0.002	0.09	1.28	10.9	<0.2	<10	130	0.83	0.19	5.69	0.30	20.4	13.8	20
DD020522		0.34	0.001	0.19	1.78	18.0	<0.2	<10	310	0.97	0.20	5.28	0.48	22.8	9.3	26
DD020523		0.36	0.002	0.12	1.28	17.1	<0.2	<10	180	0.86	0.17	8.07	0.39	26.3	9.8	22
DD020524		0.25	0.001	0.11	1.58	16.5	<0.2	<10	180	1.07	0.24	2.49	0.36	26.9	11.4	26
DD020525		0.25	<0.001	0.09	1.98	18.1	<0.2	<10	170	0.97	0.24	3.09	0.47	24.8	8.4	32
DD020526		0.30	0.002	0.12	1.48	18.2	<0.2	<10	160	0.82	0.22	1.96	0.24	37.8	11.9	27
DD020527		0.33	0.002	0.17	1.31	14.6	<0.2	<10	230	0.76	0.18	4.83	0.28	23.3	8.9	21
DD020528		0.42	0.001	0.09	1.77	17.2	<0.2	<10	210	0.84	0.25	2.37	0.77	23.8	9.8	28
DD020529		0.30	0.005	0.08	0.96	11.1	<0.2	<10	100	0.66	0.14	8.67	0.31	21.0	10.2	15
DD020530		0.27	0.003	0.21	1.40	12.4	<0.2	<10	280	0.84	0.17	6.65	1.03	22.7	9.0	21
DD020531		0.35	0.001	0.11	1.07	12	<0.2	<10	130	0.62	0.13	10.15	0.36	19.30	7.5	17
DD020532		0.47	0.001	0.07	0.96	9	<0.2	<10	120	0.55	0.12	11.10	0.22	16.95	8.1	14
DD020533		0.48	0.001	0.06	0.85	14	<0.2	<10	110	0.51	0.11	11.45	0.23	14.30	8.0	13
DD020534		0.44	0.002	0.08	0.98	13.4	<0.2	<10	180	0.63	0.14	8.74	0.51	19.15	8.9	16
DD020535		0.74	0.001	0.06	0.82	16	<0.2	<10	180	0.51	0.11	11.85	0.29	15.75	8.0	13

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020065		0.72	9.6	1.90	1.84	<0.05	0.04	0.08	0.019	0.05	10.6	5.8	6.37	278	2.47	0.02
DD020066		0.60	13.1	1.61	1.99	<0.05	0.04	0.03	0.015	0.07	8.1	7.4	5.58	312	3.37	0.02
DD020067		0.81	16.3	2.60	4.10	<0.05	0.04	0.11	0.027	0.09	13.7	12.3	1.09	549	1.92	0.01
DD020068		0.76	16.7	2.71	3.92	<0.05	0.04	0.08	0.026	0.07	14.9	12.9	2.13	502	1.71	0.02
DD020069		1.10	16.6	2.40	3.78	0.07	0.07	0.05	0.028	0.07	12.3	11.9	3.56	411	2.48	0.02
DD020070		1.29	13.9	3.15	5.50	0.09	0.06	0.04	0.037	0.09	15.9	14.1	1.32	821	2.24	0.02
DD020071		0.75	12.9	2.01	3.01	0.07	0.06	0.04	0.024	0.07	10.1	9.3	3.91	365	5.16	0.02
DD020072		0.61	11.6	2.21	1.29	0.06	0.06	0.13	0.022	0.05	7.3	3.2	8.28	236	5.07	0.02
DD020073		0.84	14.6	2.09	3.04	0.07	0.05	0.06	0.024	0.06	12.1	10.6	3.79	339	4.46	0.02
DD020074		1.02	14.5	2.25	3.68	0.07	0.08	0.03	0.027	0.09	11.0	11.4	3.30	390	2.21	0.02
DD020075		0.39	4.6	0.43	0.67	<0.05	0.05	0.02	0.008	0.02	2.7	2.2	10.80	115	0.84	0.02
DD020076		0.71	15.7	2.25	3.34	0.08	0.07	0.06	0.024	0.05	14.3	11.3	1.78	278	3.35	0.02
DD020077		0.83	16.3	2.05	2.60	0.06	0.06	0.04	0.026	0.07	10.1	8.3	4.53	335	20.8	0.02
DD020078		0.63	6.4	0.99	0.61	<0.05	0.05	0.03	0.016	0.07	5.6	1.5	9.25	131	2.85	0.03
DD020079		1.18	16.5	3.15	5.56	0.09	0.09	0.04	0.035	0.06	20.2	16.2	0.98	451	2.75	0.01
DD020341		1.70	20.9	3.24	2.10	0.08	0.10	0.25	0.053	0.13	7.9	2.5	2.32	292	5.92	0.02
DD020342		0.90	17.8	3.25	2.06	0.09	0.15	0.07	0.045	0.13	10.3	3.1	4.69	684	7.17	0.02
DD020343		0.77	23.9	2.61	2.78	0.07	0.09	0.10	0.028	0.09	10.9	8.4	3.35	306	5.49	0.02
DD020344		1.03	15.1	2.30	3.57	0.07	0.06	0.05	0.026	0.07	11.1	12.6	3.54	377	1.86	0.02
DD020345		0.77	18.5	2.45	3.79	0.08	0.06	0.04	0.027	0.06	13.5	11.9	2.73	388	6.65	0.02
DD020346		0.89	12.4	2.00	3.86	0.06	0.05	0.06	0.024	0.05	9.3	9.8	5.36	477	1.13	0.02
DD020347		0.88	16.1	2.25	4.01	0.07	0.05	0.05	0.025	0.05	11.3	12.0	4.11	407	1.37	0.02
DD020348		1.04	12.7	1.62	2.40	0.06	0.07	0.05	0.020	0.09	7.7	8.5	6.39	303	0.88	0.02
DD020349		0.84	20.6	2.21	2.96	0.07	0.08	0.06	0.023	0.06	10.4	13.5	3.17	288	1.19	0.02
DD020350		1.22	16.6	1.95	2.64	0.05	0.08	0.08	0.024	0.10	8.1	9.8	5.52	334	1.11	0.02
DD020521		1.60	28.3	2.83	3.82	0.08	0.08	0.05	0.031	0.11	9.3	17.6	3.55	539	1.10	0.02
DD020522		1.29	24.5	2.76	5.13	0.08	0.10	0.08	0.034	0.09	12.9	17.0	3.02	490	1.46	0.02
DD020523		1.15	17.4	2.39	3.49	0.08	0.09	0.06	0.028	0.08	12.8	11.8	4.55	393	1.32	0.02
DD020524		1.05	15.4	3.23	4.46	0.09	0.08	0.04	0.037	0.08	13.7	17.1	1.49	424	1.22	0.01
DD020525		1.17	11.1	2.89	5.53	0.08	0.07	0.03	0.037	0.06	13.5	15.5	1.86	384	1.23	0.01
DD020526		0.92	17.3	3.11	4.56	0.10	0.08	0.04	0.033	0.06	17.8	16.4	1.38	460	1.56	0.01
DD020527		0.99	18.0	2.28	3.96	0.08	0.06	0.07	0.024	0.06	12.2	12.7	2.86	405	1.07	0.02
DD020528		1.07	11.3	2.81	5.58	0.07	0.06	0.03	0.032	0.05	12.0	14.0	1.54	586	0.88	0.02
DD020529		1.24	19.4	2.16	2.80	0.07	0.09	0.06	0.025	0.10	9.1	11.8	4.84	435	1.33	0.02
DD020530		0.99	29.7	2.12	3.81	0.08	0.06	0.12	0.025	0.06	13.1	9.1	3.47	546	0.92	0.02
DD020531		0.96	13.0	1.91	2.81	0.06	0.07	0.05	0.020	0.08	9.0	10.1	5.81	372	1.02	0.02
DD020532		0.93	15.9	1.96	2.69	0.06	0.07	0.03	0.021	0.09	8.2	10.7	5.73	366	0.93	0.02
DD020533		1.11	18.4	1.85	2.41	0.06	0.06	0.05	0.021	0.10	6.6	10.5	5.20	320	0.87	0.01
DD020534		1.06	18.1	2.16	2.75	0.07	0.07	0.05	0.025	0.09	8.8	11.2	4.92	407	1.60	0.02
DD020535		1.17	17.1	1.84	2.29	0.06	0.06	0.06	0.021	0.09	7.2	10.5	5.14	334	1.14	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD020065		0.37	16.2	450	7.7	4.5	0.001	0.03	0.94	2.4	0.6	0.3	90.1	<0.01	0.02	1.2
DD020066		0.45	19.3	560	8.8	4.9	0.002	0.03	1.64	2.2	0.6	0.3	67.1	<0.01	<0.01	1.4
DD020067		0.87	25.2	540	13.7	11.1	0.002	0.04	1.13	3.3	0.7	0.5	30.1	<0.01	0.03	1.7
DD020068		0.75	27.0	750	13.4	6.8	0.001	0.03	0.97	3.3	1.3	0.5	36.4	<0.01	0.02	1.8
DD020069		0.67	26.5	680	14.1	9.9	<0.001	0.05	1.03	3.6	0.8	0.4	54.4	<0.01	0.04	2.1
DD020070		0.93	25.5	420	17.4	14.2	<0.001	0.05	1.05	4.6	0.7	0.7	22.2	<0.01	0.05	2.8
DD020071		0.47	22.0	710	12.6	9.7	<0.001	0.07	1.41	2.5	0.7	0.4	58.8	<0.01	0.03	1.2
DD020072		0.25	20.4	330	9.1	4.1	0.001	0.04	1.99	3.1	0.6	0.3	111.5	<0.01	0.03	0.9
DD020073		0.59	24.2	690	11.5	8.1	<0.001	0.05	1.20	2.7	0.8	0.4	52.7	<0.01	0.04	1.3
DD020074		0.52	23.5	870	14.3	11.4	<0.001	0.09	1.19	2.7	0.8	0.5	47.3	0.01	0.06	1.1
DD020075		0.21	5.0	440	3.2	3.4	0.001	0.05	0.40	0.8	0.5	<0.2	121.5	<0.01	0.03	0.4
DD020076		0.77	24.8	440	10.7	6.4	<0.001	0.05	1.45	3.4	0.6	0.4	28.4	<0.01	0.04	2.4
DD020077		0.49	29.2	550	11.3	7.4	0.001	0.07	1.80	2.7	0.7	0.5	59.9	<0.01	0.04	1.4
DD020078		0.15	9.3	190	6.0	4.2	0.001	0.06	0.42	1.8	0.5	0.2	154.5	<0.01	0.02	1.0
DD020079		0.94	30.2	250	17.6	10.8	<0.001	0.04	1.17	5.4	0.7	0.6	16.6	<0.01	0.05	4.6
DD020341		0.31	42.3	790	14.8	7.4	0.001	0.23	2.74	4.7	1.0	0.6	49.2	0.01	0.08	0.9
DD020342		0.39	28.1	1040	15.5	5.9	<0.001	0.14	2.09	3.2	0.7	0.5	56.8	0.01	0.05	1.2
DD020343		0.42	29.5	560	17.7	7.4	<0.001	0.06	1.64	3.3	0.7	0.4	55.1	<0.01	0.04	1.5
DD020344		0.56	21.1	640	14.7	9.9	<0.001	0.05	1.06	3.5	0.7	0.4	57.3	<0.01	0.03	1.5
DD020345		0.57	28.2	670	13.8	8.0	<0.001	0.07	1.30	2.8	0.7	0.5	40.2	<0.01	0.05	1.2
DD020346		0.57	18.0	1080	12.7	11.1	0.001	0.10	1.77	2.1	0.8	0.4	54.3	0.01	0.05	0.9
DD020347		0.63	23.2	790	13.3	10.6	<0.001	0.07	1.08	2.5	0.8	0.4	48.6	0.01	0.06	1.1
DD020348		0.35	14.3	460	18.8	8.8	<0.001	0.05	0.80	3.3	0.6	0.3	118.0	<0.01	0.02	1.8
DD020349		0.59	22.4	700	17.8	6.1	0.001	0.05	1.09	3.7	0.6	0.3	95.3	<0.01	0.03	2.4
DD020350		0.36	17.3	610	28.1	9.8	<0.001	0.06	1.02	3.5	0.7	0.3	86.8	<0.01	0.03	1.4
DD020521		0.38	25.8	600	20.9	10.1	<0.001	0.05	0.73	5.1	0.5	0.4	56.9	<0.01	0.03	3.3
DD020522		0.55	23.0	790	23.4	13.6	<0.001	0.09	1.02	4.0	0.9	0.6	41.5	0.01	0.05	1.4
DD020523		0.40	20.0	940	20.1	10.2	0.001	0.09	1.01	3.7	0.8	0.4	59.3	0.01	0.05	1.4
DD020524		0.62	22.2	350	23.3	11.5	<0.001	0.06	0.87	5.0	0.6	0.5	21.3	<0.01	0.05	3.3
DD020525		0.87	24.9	470	18.6	11.7	<0.001	0.07	0.83	3.7	0.6	0.7	24.3	<0.01	0.05	2.0
DD020526		0.75	26.9	390	23.3	9.2	<0.001	0.05	0.97	4.9	0.8	0.5	22.1	<0.01	0.04	3.5
DD020527		0.73	21.7	560	14.9	8.7	<0.001	0.06	0.73	3.2	0.8	0.4	34.3	<0.01	0.04	1.5
DD020528		1.01	21.0	310	19.7	12.1	<0.001	0.04	0.70	3.8	0.6	0.6	17.4	<0.01	0.05	2.4
DD020529		0.37	18.8	600	16.7	10.3	<0.001	0.06	0.95	3.8	0.6	0.3	64.0	<0.01	0.03	2.0
DD020530		0.58	26.0	800	14.7	8.3	0.001	0.09	0.71	2.5	1.3	0.5	54.0	0.01	0.05	0.7
DD020531		0.44	16.4	790	14.5	11.8	<0.001	0.06	1.15	2.9	0.6	0.3	65.2	<0.01	0.04	1.2
DD020532		0.37	16.1	480	15.6	8.2	<0.001	0.06	0.62	3.8	0.5	0.3	93.7	<0.01	0.03	2.3
DD020533		0.29	15.9	420	16.6	7.7	<0.001	0.06	0.67	3.7	0.5	0.3	129.0	<0.01	0.02	2.2
DD020534		0.37	33.5	520	17.4	8.0	<0.001	0.06	0.91	3.4	0.8	0.3	66.1	<0.01	0.02	1.9
DD020535		0.33	15.5	440	16.5	7.3	0.001	0.05	0.71	3.4	0.5	0.3	126.5	<0.01	0.02	2.0





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020065		0.013	0.66	0.73	22	0.08	8.53	51	1.4
DD020066		0.018	0.49	0.92	25	0.10	7.15	58	1.5
DD020067		0.023	0.22	0.68	43	0.21	7.97	81	1.4
DD020068		0.027	0.24	0.78	43	0.18	10.05	90	1.2
DD020069		0.021	0.27	1.00	41	0.17	9.53	90	1.7
DD020070		0.026	0.29	0.97	58	0.19	9.41	103	1.4
DD020071		0.015	0.36	0.89	33	0.26	7.64	72	1.6
DD020072		0.006	1.20	0.65	17	0.08	6.94	41	1.9
DD020073		0.022	0.26	1.19	37	0.18	7.70	68	1.1
DD020074		0.015	0.32	1.07	44	0.15	8.18	102	1.8
DD020075		0.008	0.13	0.69	13	<0.05	2.17	41	1.4
DD020076		0.024	0.31	0.62	38	0.24	10.05	62	1.8
DD020077		0.019	1.05	0.92	33	0.41	7.15	72	1.7
DD020078		<0.005	0.16	0.72	8	<0.05	5.18	31	1.3
DD020079		0.023	0.28	0.66	62	0.23	12.50	85	2.2
DD020341		<0.005	2.57	2.68	23	0.08	15.60	66	3.6
DD020342		<0.005	0.97	0.94	27	0.14	14.50	65	3.9
DD020343		0.012	0.93	0.76	31	0.18	8.66	74	2.2
DD020344		0.015	0.23	1.00	35	0.21	8.82	82	1.5
DD020345		0.020	0.34	1.00	41	0.15	9.80	86	1.3
DD020346		0.017	0.22	1.65	45	0.14	6.00	144	1.4
DD020347		0.020	0.24	1.18	41	0.16	7.70	84	1.3
DD020348		0.008	0.16	0.93	20	0.09	8.51	59	1.8
DD020349		0.022	0.13	0.84	30	0.16	9.12	87	2.1
DD020350		0.009	0.22	0.97	24	0.11	8.81	89	2.0
DD020521		0.011	0.17	0.80	27	0.11	9.57	91	2.7
DD020522		0.009	0.34	1.36	40	0.13	12.00	93	2.3
DD020523		0.009	0.23	1.44	33	0.14	11.80	74	2.1
DD020524		0.011	0.15	0.99	41	0.13	9.11	75	2.1
DD020525		0.015	0.22	1.04	57	0.15	9.59	97	1.6
DD020526		0.021	0.15	0.91	44	0.26	12.55	77	1.8
DD020527		0.020	0.25	2.73	37	1.25	8.74	65	1.5
DD020528		0.028	0.14	1.20	52	0.22	5.80	131	1.3
DD020529		0.008	0.19	0.97	22	0.09	8.79	65	2.6
DD020530		0.016	0.19	1.66	33	0.26	12.15	86	1.3
DD020531		0.013	0.22	1.27	28	0.23	7.37	67	1.7
DD020532		0.009	0.16	0.93	22	0.09	8.46	57	2.2
DD020533		0.007	0.16	0.85	18	0.07	7.24	62	2.2
DD020534		0.009	0.26	1.25	28	0.12	9.53	105	1.9
DD020535		0.008	0.16	1.30	18	0.09	7.18	67	1.9



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**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD020536		0.38	0.001	0.39	1.65	15.0	<0.2	<10	300	0.85	0.24	1.71	0.85	24.2	13.0	26
DD020537		0.35	0.002	0.16	1.29	12.4	<0.2	<10	120	0.66	0.19	4.15	0.25	24.1	9.2	20
DD020538		0.24	0.001	0.11	1.34	11.0	<0.2	<10	170	0.76	0.19	3.52	0.26	22.9	11.2	21
DD020539		0.31	0.004	0.27	1.46	12.2	<0.2	<10	280	0.69	0.22	1.56	0.14	28.6	11.5	26
DD020540		0.46	0.002	0.18	1.44	16.3	<0.2	<10	140	0.82	0.22	4.37	0.26	27.2	9.2	24
DD020541		0.27	0.001	0.14	1.50	17.3	<0.2	<10	210	0.84	0.22	4.51	0.30	25.6	10.5	23
DD020542		0.26	0.002	0.17	1.57	18.3	<0.2	<10	270	0.76	0.22	4.90	0.53	21.4	9.6	23
DD020543		0.30	0.001	0.15	0.71	17	<0.2	<10	100	0.61	0.14	11.60	0.23	26.5	7.8	13
DD020544		0.34	0.002	0.20	0.85	19	<0.2	<10	70	0.71	0.16	10.30	0.27	22.6	7.6	15
DD020545		0.40	0.001	0.04	1.66	13.3	<0.2	<10	160	0.87	0.22	2.00	0.25	27.7	11.6	23
DD020546		0.44	0.002	0.09	0.93	18	<0.2	<10	100	0.69	0.14	10.10	0.20	16.30	9.1	14
DD020547		0.22	0.003	0.10	1.01	17.0	<0.2	<10	130	0.73	0.18	5.28	0.33	18.50	10.6	16
DD020548		0.50	0.003	0.09	1.12	16.1	<0.2	<10	140	0.94	0.24	3.81	0.29	22.0	12.6	18
DD020549		0.30	0.002	0.12	1.26	9.9	<0.2	10	240	0.77	0.20	4.09	0.62	21.6	7.5	21
DD020550		0.33	0.003	0.12	1.28	10.9	<0.2	<10	140	0.68	0.20	5.18	0.22	22.3	8.2	21
DD020551		0.25	0.006	0.10	1.10	13.6	<0.2	10	230	0.67	0.20	1.70	0.42	15.45	10.1	17
DD020552		0.55	0.006	0.12	0.99	14.1	<0.2	<10	140	0.60	0.17	8.09	0.26	21.9	8.1	17
DD020553		0.53	0.002	0.08	0.95	12.6	<0.2	<10	110	0.59	0.16	7.97	0.33	21.0	9.2	16
DD020554		0.27	0.002	0.11	1.11	11.6	<0.2	<10	210	0.96	0.25	2.70	0.23	30.2	11.1	21
DD020731		0.31	0.002	0.15	0.82	15	<0.2	<10	110	0.55	0.12	13.45	0.40	20.0	6.8	15
DD020732		0.33	0.002	0.13	1.61	16.0	<0.2	<10	170	0.70	0.21	6.27	0.63	27.0	8.7	23
DD020733		0.26	0.003	0.12	1.63	22.6	<0.2	10	240	0.81	0.19	5.66	0.75	23.4	7.6	23
DD020734		0.27	0.002	0.10	0.68	21	<0.2	<10	70	0.54	0.09	14.80	0.41	11.80	4.4	12
DD020735		0.45	0.002	0.09	0.54	17	<0.2	<10	90	0.44	0.07	15.65	0.50	8.16	3.3	10
DD020736		0.32	0.002	0.12	0.96	14	<0.2	<10	1630	0.64	0.12	12.40	0.66	13.70	4.7	16
DD020737		0.35	0.001	0.35	0.96	27	<0.2	<10	230	0.60	0.13	12.70	0.45	13.20	5.6	14
DD020738		0.36	0.002	0.20	1.48	19.5	<0.2	10	670	0.94	0.21	4.27	0.54	21.3	9.6	22
DD020739		0.30	0.001	0.17	1.38	20.3	<0.2	<10	730	0.86	0.20	8.53	0.64	17.75	9.2	20
DD020740		0.20	0.001	0.21	1.20	21.0	<0.2	<10	240	0.92	0.21	6.71	1.04	21.7	9.5	19
DD020741		0.24	0.001	0.07	1.87	20.0	<0.2	10	280	1.05	0.22	4.88	0.90	24.0	9.0	25
DD020742		0.26	0.002	0.11	1.45	16.6	<0.2	<10	300	0.85	0.21	3.55	0.94	23.2	13.8	23
DD020743		0.25	0.002	0.15	1.48	13.1	<0.2	<10	130	0.73	0.21	5.68	0.64	24.7	9.4	23
DD020744		0.28	0.002	0.11	1.12	12	<0.2	<10	120	0.66	0.15	10.65	0.71	19.25	6.6	16
DD020745		0.18	0.002	0.10	0.79	13	<0.2	<10	70	0.50	0.11	12.45	0.42	12.65	5.1	12
DD025951		0.36	0.002	0.04	0.17	15	<0.2	<10	50	0.23	0.12	17.00	0.11	10.80	4.7	6
DD025952		0.41	0.001	0.03	0.17	12	<0.2	<10	70	0.24	0.12	17.20	0.11	8.24	4.5	5
DD025953		0.31	0.001	0.05	0.31	13	<0.2	<10	50	0.28	0.12	15.75	0.15	13.35	4.4	6
DD025954		0.27	0.003	0.04	0.29	8	<0.2	<10	70	0.28	0.11	15.95	0.17	12.40	4.5	7
DD025955		0.32	0.002	0.04	0.39	10	<0.2	<10	110	0.31	0.13	14.45	0.22	13.55	5.1	8
DD025956		0.32	0.001	0.04	0.32	23	<0.2	<10	90	0.33	0.13	15.80	0.20	12.45	5.5	7

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020536		0.98	19.6	3.31	5.00	<0.05	0.07	0.05	0.036	0.10	9.7	14.4	0.90	829	1.27	0.02
DD020537		0.85	16.1	2.44	3.72	<0.05	0.06	0.05	0.026	0.07	10.5	11.5	2.30	306	1.03	0.02
DD020538		0.64	17.1	2.78	3.48	<0.05	0.05	0.06	0.024	0.06	10.0	12.0	1.97	613	0.93	0.02
DD020539		0.78	24.5	2.71	4.65	<0.05	0.06	0.08	0.025	0.06	14.3	14.8	0.76	483	0.92	0.02
DD020540		0.80	14.9	2.66	3.87	<0.05	0.07	0.06	0.026	0.06	14.2	11.1	2.55	383	1.12	0.02
DD020541		0.83	16.1	2.90	3.86	<0.05	0.08	0.06	0.027	0.08	10.8	13.7	2.51	469	1.24	0.02
DD020542		1.26	18.8	2.59	3.87	<0.05	0.06	0.10	0.025	0.08	9.4	12.9	2.71	536	1.13	0.02
DD020543		0.79	12.7	1.88	1.91	<0.05	0.06	0.06	0.021	0.06	13.2	7.6	6.24	909	1.46	0.02
DD020544		0.77	15.6	1.90	2.54	<0.05	0.06	0.10	0.021	0.06	12.4	9.7	5.61	354	1.58	0.02
DD020545		1.06	15.4	3.36	5.34	<0.05	0.07	0.03	0.035	0.06	13.7	15.6	1.20	428	0.97	0.02
DD020546		0.83	17.8	2.15	2.40	<0.05	0.07	0.04	0.021	0.08	7.9	9.9	5.24	373	0.96	0.03
DD020547		1.42	22.7	2.48	2.77	<0.05	0.04	0.08	0.023	0.10	8.4	11.0	2.97	456	0.99	0.02
DD020548		1.90	33.7	2.95	3.43	<0.05	0.08	0.06	0.032	0.16	10.1	12.3	2.02	251	0.94	0.02
DD020549		1.05	31.2	1.83	3.57	<0.05	0.07	0.07	0.026	0.12	10.3	15.5	1.93	204	0.82	0.02
DD020550		1.00	11.4	2.46	3.82	<0.05	0.07	0.03	0.024	0.06	11.7	12.0	3.06	283	0.94	0.02
DD020551		0.76	20.3	2.71	2.89	<0.05	0.08	0.05	0.027	0.11	7.4	12.3	0.51	402	0.87	0.02
DD020552		0.80	13.2	2.10	2.50	<0.05	0.05	0.04	0.019	0.07	10.7	10.3	4.66	562	1.04	0.02
DD020553		0.99	16.8	2.17	2.70	<0.05	0.04	0.04	0.018	0.08	10.1	13.0	4.41	373	1.06	0.02
DD020554		1.46	30.0	2.84	3.61	0.05	0.07	0.05	0.035	0.11	14.2	15.8	1.05	324	0.81	0.02
DD020731		1.27	13.8	1.58	1.94	<0.05	0.07	0.05	0.016	0.06	8.8	6.2	7.20	284	3.40	0.03
DD020732		0.94	15.8	2.41	3.70	<0.05	0.06	0.06	0.025	0.07	11.6	11.2	3.67	507	1.75	0.02
DD020733		0.83	14.2	2.48	3.57	<0.05	0.05	0.07	0.027	0.09	10.2	11.0	2.83	557	1.17	0.02
DD020734		0.54	11.2	1.13	1.62	<0.05	0.06	0.03	0.011	0.05	5.8	5.7	8.33	192	0.84	0.03
DD020735		0.46	8.8	0.84	1.15	<0.05	0.05	0.02	0.009	0.04	3.9	4.1	8.86	153	0.55	0.03
DD020736		0.66	12.3	1.41	2.04	<0.05	0.07	0.04	0.017	0.07	6.2	6.0	6.82	237	2.44	0.04
DD020737		0.61	16.6	1.49	2.05	<0.05	0.08	0.03	0.016	0.06	6.1	6.4	7.26	250	9.99	0.03
DD020738		0.68	18.8	2.62	3.74	<0.05	0.09	0.04	0.025	0.13	9.3	11.7	2.46	494	1.87	0.03
DD020739		0.78	21.1	2.31	3.40	<0.05	0.11	0.03	0.027	0.10	8.7	10.5	5.15	374	4.60	0.02
DD020740		0.86	17.5	2.32	3.00	<0.05	0.08	0.06	0.026	0.08	10.6	8.9	3.95	566	3.90	0.03
DD020741		1.15	14.2	2.65	4.45	<0.05	0.07	0.03	0.029	0.08	10.5	12.5	2.95	556	4.62	0.02
DD020742		0.84	18.2	2.47	3.90	<0.05	0.06	0.04	0.029	0.09	10.8	12.8	2.14	432	1.23	0.02
DD020743		0.85	16.0	2.32	4.06	<0.05	0.05	0.04	0.023	0.06	11.1	12.7	3.34	390	1.25	0.03
DD020744		0.66	14.6	1.72	2.76	<0.05	0.05	0.03	0.020	0.06	9.0	9.1	5.60	440	1.26	0.03
DD020745		0.43	12.6	1.23	1.82	<0.05	0.05	0.04	0.012	0.04	6.2	6.1	6.79	202	1.12	0.03
DD025951		1.91	9.0	1.25	0.47	<0.05	0.02	0.07	0.012	0.07	4.7	1.2	9.02	118	2.25	0.03
DD025952		2.75	7.3	0.88	0.48	<0.05	0.02	0.07	0.011	0.06	3.5	1.3	9.11	86	3.02	0.03
DD025953		1.10	10.5	1.12	0.79	<0.05	0.04	0.07	0.013	0.07	5.8	1.9	8.53	156	1.64	0.02
DD025954		1.04	10.3	1.09	0.73	<0.05	0.03	0.04	0.012	0.07	5.6	1.9	8.55	138	2.09	0.03
DD025955		1.46	12.4	1.27	1.00	<0.05	0.04	0.08	0.016	0.07	6.2	2.8	7.86	152	2.26	0.02
DD025956		1.42	15.0	1.30	0.86	<0.05	0.03	0.04	0.013	0.07	5.5	2.2	8.50	132	2.93	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020536		0.51	23.2	460	29.5	15.7	<0.001	0.02	0.96	4.1	0.6	0.6	25.4	<0.01	0.03	1.7
DD020537		0.54	20.6	320	20.0	7.1	<0.001	<0.01	0.86	3.7	0.7	0.4	38.7	<0.01	0.01	2.8
DD020538		0.38	19.2	390	22.0	5.7	<0.001	0.01	0.66	3.3	0.7	0.3	29.8	<0.01	0.02	2.1
DD020539		0.77	25.7	740	15.1	7.2	<0.001	0.02	0.71	3.3	1.1	0.4	30.5	<0.01	0.03	1.6
DD020540		0.51	22.1	650	20.3	8.3	<0.001	0.02	0.93	4.0	0.7	0.4	35.2	<0.01	0.02	1.9
DD020541		0.44	20.5	540	21.4	8.7	0.001	0.03	1.04	4.1	0.8	0.4	39.0	<0.01	0.02	2.3
DD020542		0.55	22.1	590	17.7	12.0	<0.001	0.04	1.00	3.0	0.7	0.5	40.5	<0.01	0.03	1.5
DD020543		0.14	15.3	670	19.9	5.3	<0.001	0.02	0.81	3.1	0.7	0.2	83.6	<0.01	0.03	1.3
DD020544		0.22	17.4	810	24.7	7.0	<0.001	0.03	0.87	2.9	0.5	0.3	80.0	<0.01	0.02	1.2
DD020545		0.63	20.5	420	21.6	10.1	<0.001	0.01	0.70	4.9	0.6	0.5	28.6	<0.01	0.03	2.6
DD020546		0.22	17.1	560	27.2	5.7	<0.001	0.01	0.78	3.5	0.5	0.3	79.5	<0.01	0.02	2.0
DD020547		0.34	19.7	480	23.0	7.4	<0.001	0.03	0.79	3.5	0.7	0.3	45.7	<0.01	0.01	1.8
DD020548		0.35	22.1	400	25.6	13.5	<0.001	0.02	0.63	5.3	1.2	0.4	39.7	<0.01	0.02	2.7
DD020549		0.48	21.1	680	23.6	9.6	0.003	0.11	0.77	3.6	4.0	0.4	54.1	<0.01	0.02	1.5
DD020550		0.52	18.7	430	21.5	7.9	<0.001	0.01	0.53	3.7	0.6	0.4	46.4	<0.01	0.03	2.5
DD020551		0.31	17.3	510	29.8	8.5	<0.001	0.07	0.72	3.2	1.3	0.3	57.4	<0.01	0.02	1.2
DD020552		0.33	15.5	500	20.4	5.3	<0.001	0.02	0.71	2.9	0.5	0.3	53.2	<0.01	0.02	1.7
DD020553		0.29	19.0	630	18.5	5.9	<0.001	0.01	0.64	2.9	0.8	0.3	65.2	<0.01	0.03	1.6
DD020554		0.46	28.2	640	22.2	11.2	<0.001	0.06	0.61	4.5	1.3	0.4	54.6	<0.01	0.03	2.2
DD020731		0.21	18.8	800	10.0	6.1	0.001	0.05	0.82	1.7	0.6	0.3	100.5	<0.01	0.02	1.0
DD020732		0.46	21.5	1020	15.4	8.9	<0.001	0.07	0.95	2.1	0.8	0.4	51.6	<0.01	0.03	1.0
DD020733		0.43	18.6	910	17.2	9.3	0.001	0.07	1.60	2.0	0.6	0.4	41.2	<0.01	0.03	0.9
DD020734		0.22	13.6	560	10.3	4.3	<0.001	0.02	1.18	1.4	0.6	0.2	89.4	<0.01	0.02	0.8
DD020735		0.15	14.2	570	7.5	3.2	<0.001	0.03	1.26	1.0	0.5	0.2	99.6	<0.01	0.01	0.6
DD020736		0.19	15.9	950	12.9	6.2	0.001	0.08	1.14	1.4	0.9	0.3	80.0	<0.01	0.02	0.7
DD020737		0.23	23.0	730	14.9	6.2	0.001	0.05	1.11	1.5	0.6	0.3	68.8	<0.01	0.03	0.8
DD020738		0.43	24.6	620	34.4	8.4	<0.001	0.03	1.50	3.5	0.7	0.5	33.5	<0.01	0.05	2.1
DD020739		0.29	27.6	770	33.8	7.9	<0.001	0.04	1.29	2.8	1.1	0.4	48.8	<0.01	0.04	1.4
DD020740		0.31	29.7	840	31.9	7.1	<0.001	0.04	1.40	2.7	0.7	0.4	49.2	<0.01	0.03	1.2
DD020741		0.45	30.3	610	33.5	11.5	0.001	0.03	1.17	3.1	0.7	0.6	32.7	<0.01	0.04	1.5
DD020742		0.56	29.9	700	25.1	10.5	<0.001	0.03	1.17	3.2	0.8	0.5	31.4	<0.01	0.05	1.7
DD020743		0.56	23.2	790	17.6	9.1	<0.001	0.04	1.03	2.3	0.5	0.4	56.3	<0.01	0.04	1.1
DD020744		0.34	18.4	840	13.5	6.6	<0.001	0.04	1.25	1.6	0.6	0.3	79.3	<0.01	0.03	0.8
DD020745		0.30	14.8	850	9.9	4.5	<0.001	0.07	0.85	1.0	0.4	0.2	88.9	<0.01	0.02	0.6
DD025951		<0.05	11.9	100	7.3	3.4	0.001	0.03	0.27	1.7	0.3	0.2	117.0	<0.01	0.03	1.6
DD025952		<0.05	12.6	80	7.0	3.6	0.001	0.03	0.55	1.6	0.4	<0.2	132.5	<0.01	0.02	1.3
DD025953		0.10	11.3	160	7.3	3.6	0.001	0.03	0.70	1.7	0.6	0.2	120.5	<0.01	0.02	1.1
DD025954		0.11	12.8	170	7.0	3.7	0.001	0.04	0.61	1.7	0.2	0.2	136.0	<0.01	0.02	1.2
DD025955		0.14	14.4	290	7.5	4.0	<0.001	0.04	0.80	1.7	0.4	0.2	117.0	<0.01	0.02	0.9
DD025956		0.13	15.2	190	8.6	3.8	0.001	0.04	0.85	1.7	0.2	0.2	131.5	<0.01	0.04	1.1





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020536		0.011	0.14	1.31	39	0.13	7.36	170	1.7
DD020537		0.014	0.15	0.82	32	0.12	7.89	71	1.9
DD020538		0.010	0.10	0.99	31	0.11	8.22	65	1.4
DD020539		0.026	0.09	1.78	41	0.20	10.95	72	1.5
DD020540		0.014	0.13	1.12	38	0.16	12.75	76	1.8
DD020541		0.011	0.22	0.89	36	0.12	10.15	72	2.1
DD020542		0.015	1.41	1.03	36	0.14	7.77	110	1.6
DD020543		0.005	0.13	1.47	20	0.06	11.85	53	1.5
DD020544		0.006	0.22	1.17	21	0.10	12.85	55	1.6
DD020545		0.014	0.15	0.88	50	0.13	9.34	77	1.8
DD020546		0.007	0.15	0.94	20	0.08	9.35	76	2.0
DD020547		0.011	0.16	0.87	24	0.09	8.54	96	1.9
DD020548		0.009	0.31	0.66	28	0.07	11.10	107	2.2
DD020549		0.013	0.16	1.62	23	0.11	10.40	124	2.4
DD020550		0.014	0.13	1.07	32	0.11	9.43	73	1.6
DD020551		0.008	0.14	1.82	24	0.09	7.60	168	1.9
DD020552		0.012	0.13	1.10	27	0.09	9.41	73	1.2
DD020553		0.012	0.16	1.08	22	0.10	9.54	78	1.3
DD020554		0.010	0.12	2.83	24	0.09	13.05	92	2.2
DD020731		0.009	0.68	1.16	19	0.08	8.62	66	1.9
DD020732		0.013	0.52	1.27	39	0.13	8.80	102	1.5
DD020733		0.012	0.29	0.77	38	0.17	7.70	137	1.4
DD020734		0.011	0.18	1.39	21	0.08	5.27	67	1.8
DD020735		0.008	0.12	1.20	20	0.05	4.07	87	1.5
DD020736		0.009	0.38	2.09	28	0.07	5.82	114	2.0
DD020737		0.011	0.63	1.75	26	0.12	5.29	97	2.2
DD020738		0.011	0.28	0.75	39	0.12	8.77	128	2.5
DD020739		0.008	0.56	1.22	36	0.12	8.98	126	2.6
DD020740		0.010	0.48	1.20	35	0.16	12.05	146	2.1
DD020741		0.011	0.34	0.89	49	0.16	9.12	162	2.0
DD020742		0.016	0.19	0.77	43	0.16	8.75	147	1.8
DD020743		0.018	0.17	0.83	40	0.16	8.38	102	1.2
DD020744		0.015	0.17	1.14	31	0.11	7.20	106	1.3
DD020745		0.011	0.14	1.48	23	0.07	5.21	86	1.4
DD025951		<0.005	0.32	0.89	8	0.22	5.16	28	1.0
DD025952		<0.005	0.33	0.70	6	<0.05	3.46	23	1.1
DD025953		<0.005	0.54	0.67	9	<0.05	5.48	32	1.0
DD025954		0.005	0.29	0.94	10	<0.05	4.97	30	1.0
DD025955		0.006	0.27	0.84	13	0.05	5.88	38	1.2
DD025956		0.005	0.73	0.90	11	0.06	4.97	34	1.0



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025957		0.36	0.001	0.03	0.28	15	<0.2	<10	50	0.26	0.12	15.95	0.11	12.15	4.2	6
DD025958		0.38	0.002	0.05	0.38	18	<0.2	<10	130	0.34	0.15	13.90	0.21	13.85	5.2	9
DD025959		0.33	0.002	0.05	0.36	18	<0.2	<10	100	0.34	0.14	14.75	0.22	12.40	5.6	8
DD025960		0.28	0.001	0.03	0.30	10	<0.2	<10	50	0.30	0.12	15.60	0.18	12.75	5.3	6
DD025961		0.34	0.002	0.05	0.35	7	<0.2	<10	60	0.32	0.14	14.90	0.19	15.30	5.9	7
DD025962		0.26	0.002	0.07	0.42	11	<0.2	<10	80	0.33	0.11	15.15	0.18	12.55	5.0	8
DD025963		0.31	0.001	0.09	0.38	13	<0.2	<10	70	0.41	0.13	15.20	0.20	15.15	6.4	8
DD025964		0.34	0.001	0.09	0.46	21	<0.2	<10	80	0.44	0.14	14.80	0.27	16.50	7.6	10
DD025965		0.22	0.001	0.16	0.36	13	<0.2	<10	100	0.36	0.14	15.30	0.33	13.95	7.7	7
DD025966		0.33	0.005	0.13	0.41	20	<0.2	<10	80	0.34	0.13	14.75	0.31	13.50	7.1	9
DD025967		0.25	0.002	0.12	0.42	21	<0.2	<10	70	0.36	0.13	14.90	0.35	15.60	8.5	10
DD025968		0.24	0.002	0.09	0.58	38	<0.2	<10	140	0.50	0.17	13.15	0.35	16.40	8.3	10
DD025969		0.27	0.001	0.12	0.86	23.0	<0.2	<10	130	0.52	0.17	9.38	0.71	18.15	8.4	14
DD025970		0.22	0.001	0.12	1.20	16.0	<0.2	<10	130	0.66	0.20	5.17	0.43	24.5	7.3	19
DD025971		0.19	0.001	0.07	1.92	19.5	<0.2	<10	180	0.78	0.30	1.23	1.26	36.3	10.4	27
DD025972		0.24	0.003	0.11	0.86	13.2	<0.2	<10	90	0.48	0.14	8.42	0.32	23.0	5.8	16
DD025973		0.22	0.001	0.07	0.66	21	<0.2	<10	160	0.37	0.13	12.75	0.33	13.95	4.9	12
DD025974		0.25	0.004	0.12	0.75	35	<0.2	<10	140	0.43	0.15	11.60	0.41	17.45	7.6	12
DD025975		0.35	0.004	0.10	0.83	12	<0.2	<10	110	0.46	0.15	10.10	0.38	24.4	7.1	15
DD025976		0.23	0.001	0.04	0.41	5	<0.2	<10	70	0.34	0.13	15.30	0.21	13.60	4.5	7
DD025977		0.31	0.001	0.03	0.21	7	<0.2	<10	60	0.27	0.13	16.85	0.12	11.55	4.4	5
DD025978		0.29	0.002	0.36	0.65	14	<0.2	<10	100	0.33	0.13	11.25	0.26	16.30	5.8	15
DD025979		0.32	0.004	0.13	0.71	16	<0.2	<10	100	0.36	0.15	11.95	0.30	16.25	5.0	14
DD025980		0.31	0.003	0.11	0.52	11	<0.2	<10	70	0.27	0.08	11.20	0.28	13.95	4.1	10
DD025981		0.24	0.002	0.08	0.52	12	<0.2	<10	60	0.39	0.11	14.45	0.25	13.90	4.2	9
DD025982		0.26	0.002	0.06	0.41	15	<0.2	<10	110	0.31	0.11	15.90	0.20	10.90	3.7	7
DD025983		0.24	0.002	0.10	0.96	20.8	<0.2	<10	140	0.60	0.17	9.44	0.59	21.0	7.3	16
DD025984		0.25	0.001	0.12	1.11	21.8	<0.2	<10	220	0.64	0.17	7.73	0.83	22.5	7.5	19
DD025985		0.22	0.001	0.13	1.76	18.9	<0.2	<10	180	0.97	0.22	5.59	1.16	24.6	7.6	26
DD025986		0.32	0.001	0.07	0.55	8	<0.2	<10	470	0.27	0.08	14.90	0.31	8.51	3.2	9
DD025987		0.32	0.001	0.05	0.33	9	<0.2	<10	1650	0.21	0.06	17.00	0.15	5.79	2.0	5
DD025988		0.31	0.002	0.05	0.40	9	<0.2	<10	70	0.24	0.08	17.20	0.27	7.11	2.5	7
DD025989		0.22	0.002	0.22	1.86	21.6	<0.2	<10	170	0.94	0.27	3.94	1.01	36.2	10.8	30

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD025957		1.33	8.6	1.14	0.73	<0.05	0.03	0.04	0.011	0.07	5.3	1.7	8.69	146	1.99	0.02
DD025958		1.17	13.0	1.51	1.02	<0.05	0.04	0.06	0.017	0.06	6.7	3.0	7.49	147	2.39	0.02
DD025959		1.57	14.9	1.28	0.92	<0.05	0.04	0.04	0.016	0.08	5.7	2.3	7.93	132	3.11	0.02
DD025960		0.77	10.9	1.19	0.75	<0.05	0.04	0.02	0.012	0.07	5.7	2.1	8.39	130	3.14	0.02
DD025961		0.45	13.8	1.17	0.85	<0.05	0.04	0.02	0.015	0.09	6.7	2.3	7.97	141	3.19	0.02
DD025962		0.61	14.9	1.05	0.95	<0.05	0.06	0.02	0.012	0.07	5.6	3.0	8.01	153	4.07	0.02
DD025963		0.56	20.8	1.35	0.98	<0.05	0.04	0.03	0.013	0.09	6.7	2.8	8.11	149	3.99	0.02
DD025964		2.17	19.2	1.42	1.12	<0.05	0.06	0.03	0.017	0.10	7.7	3.1	7.93	142	7.65	0.03
DD025965		2.30	24.8	1.23	0.88	<0.05	0.04	0.02	0.018	0.08	6.2	2.2	8.27	153	10.85	0.02
DD025966		1.87	26.7	1.39	0.96	<0.05	0.05	0.03	0.013	0.08	6.2	2.7	8.06	174	8.57	0.02
DD025967		1.08	29.3	1.38	1.04	<0.05	0.07	0.03	0.016	0.08	6.4	2.8	8.26	183	9.20	0.03
DD025968		1.29	18.2	1.85	1.31	<0.05	0.09	0.03	0.022	0.09	7.8	3.0	7.16	221	19.55	0.02
DD025969		0.70	18.0	1.92	2.07	<0.05	0.06	0.04	0.023	0.07	8.7	5.8	5.08	353	7.21	0.02
DD025970		0.69	12.4	2.21	3.00	<0.05	0.04	0.05	0.023	0.06	13.0	8.9	3.06	359	4.52	0.02
DD025971		1.19	14.8	3.19	4.86	<0.05	0.06	0.04	0.037	0.08	16.0	11.8	0.84	1300	5.45	0.01
DD025972		0.52	11.7	1.70	2.13	<0.05	0.04	0.04	0.018	0.04	14.2	6.8	4.93	281	2.56	0.02
DD025973		0.50	12.0	1.42	1.62	<0.05	0.05	0.02	0.018	0.05	7.3	4.6	7.36	233	6.79	0.02
DD025974		1.13	19.8	1.81	1.83	<0.05	0.06	0.01	0.018	0.08	8.3	5.3	6.41	251	36.5	0.02
DD025975		0.59	13.9	1.88	2.21	0.05	0.05	0.02	0.019	0.07	11.8	6.7	5.57	286	3.32	0.02
DD025976		0.57	9.8	1.11	0.99	<0.05	0.05	0.01	0.016	0.08	6.2	2.7	8.26	159	3.00	0.02
DD025977		0.63	8.9	1.18	0.49	<0.05	0.03	0.03	0.014	0.07	5.0	1.4	8.94	111	2.84	0.02
DD025978		0.71	13.0	1.71	1.78	<0.05	0.04	0.08	0.019	0.05	7.8	6.1	6.17	200	3.07	0.02
DD025979		0.55	9.9	1.53	1.70	<0.05	0.04	0.03	0.015	0.05	8.0	5.1	6.88	255	2.78	0.02
DD025980		0.47	9.8	1.12	1.39	<0.05	0.03	0.03	0.011	0.03	7.3	4.8	6.53	177	1.72	0.03
DD025981		0.75	9.4	1.17	1.25	<0.05	0.06	0.01	0.014	0.07	6.9	3.3	7.87	179	1.69	0.03
DD025982		0.58	9.0	0.98	0.89	<0.05	0.06	0.02	0.011	0.06	5.7	2.3	9.10	175	4.12	0.02
DD025983		0.78	14.2	1.93	2.29	<0.05	0.05	0.03	0.024	0.08	9.8	7.1	5.58	410	5.80	0.02
DD025984		0.84	13.2	2.13	2.78	<0.05	0.04	0.05	0.025	0.06	9.8	8.5	4.42	419	4.52	0.02
DD025985		0.95	13.4	2.52	3.79	<0.05	0.06	0.02	0.030	0.07	12.6	10.7	3.11	501	2.53	0.02
DD025986		0.43	8.3	0.91	1.12	<0.05	0.04	0.02	0.010	0.04	4.5	3.6	8.88	216	3.05	0.02
DD025987		0.32	4.7	0.49	0.69	<0.05	0.04	0.01	0.008	0.02	3.7	2.6	10.30	148	1.52	0.02
DD025988		0.42	6.6	0.66	0.83	<0.05	0.05	0.02	0.011	0.04	3.8	2.8	10.15	180	2.00	0.03
DD025989		1.16	19.6	2.97	4.49	0.06	0.04	0.05	0.040	0.10	19.3	11.8	2.36	570	3.49	0.01



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Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD025957		0.08	10.6	140	6.7	3.6	0.001	0.04	0.33	1.6	0.3	0.2	119.0	<0.01	0.02	1.2
DD025958		0.22	14.9	250	8.5	3.7	0.001	0.02	1.03	2.0	0.5	0.2	112.0	<0.01	0.03	1.5
DD025959		0.13	17.1	240	9.1	4.2	0.001	0.04	0.88	1.9	0.3	0.2	134.0	<0.01	0.03	1.1
DD025960		0.11	16.4	150	7.6	3.7	<0.001	0.03	0.46	1.8	0.3	0.2	143.0	<0.01	0.02	1.3
DD025961		0.10	17.8	180	8.1	4.5	0.002	0.03	0.47	2.1	0.4	0.2	137.0	<0.01	0.05	1.4
DD025962		0.14	15.8	240	6.8	4.2	0.001	0.04	0.97	1.5	0.5	0.2	146.0	<0.01	0.02	1.0
DD025963		0.16	20.1	210	8.2	4.1	0.002	0.03	0.64	2.1	0.2	0.3	145.5	<0.01	0.03	1.6
DD025964		0.16	25.2	260	10.8	5.7	0.002	0.04	1.05	2.3	0.7	0.3	148.0	<0.01	0.05	1.4
DD025965		0.11	24.3	210	12.6	4.8	0.002	0.05	0.81	1.8	0.5	0.3	143.0	<0.01	0.02	1.1
DD025966		0.14	23.5	240	11.9	4.5	0.001	0.04	0.69	1.9	0.6	0.3	140.5	<0.01	0.03	1.1
DD025967		0.14	25.9	300	13.1	4.2	0.001	0.04	0.93	1.9	0.4	0.3	136.5	<0.01	0.04	1.2
DD025968		0.13	26.7	430	12.7	5.8	0.002	0.06	2.02	2.1	0.7	0.3	115.0	<0.01	0.05	1.0
DD025969		0.31	24.3	630	12.5	5.1	0.001	0.06	1.35	1.9	0.5	0.4	79.6	<0.01	0.03	1.0
DD025970		0.50	20.7	550	11.3	6.7	<0.001	0.05	1.60	2.2	0.4	0.4	39.6	<0.01	0.03	1.0
DD025971		0.83	23.7	620	18.3	11.8	0.001	0.05	2.60	3.4	0.5	0.6	16.6	<0.01	0.03	1.6
DD025972		0.49	17.2	680	7.5	4.9	0.001	0.03	1.36	2.5	0.7	0.3	63.9	<0.01	0.03	1.6
DD025973		0.26	15.9	430	7.7	4.5	0.001	0.04	3.15	1.7	0.4	0.3	87.2	<0.01	0.03	0.9
DD025974		0.29	23.3	330	13.3	5.3	0.003	0.03	3.32	2.0	0.2	0.4	97.0	<0.01	0.06	1.3
DD025975		0.44	19.3	510	9.3	5.3	0.001	0.03	0.77	2.6	0.5	0.3	90.6	<0.01	0.02	1.6
DD025976		0.14	12.0	230	6.9	4.1	0.001	0.03	0.74	1.8	<0.2	0.2	126.5	<0.01	0.04	1.2
DD025977		0.06	11.7	110	6.8	3.3	0.002	0.03	0.38	1.6	0.4	0.2	140.0	<0.01	0.02	1.3
DD025978		0.35	24.1	380	6.7	3.5	0.001	0.03	1.33	2.3	0.5	0.3	80.9	<0.01	0.02	1.0
DD025979		0.31	15.8	480	7.1	4.2	0.001	0.04	1.97	1.7	<0.2	0.3	76.3	<0.01	0.02	0.9
DD025980		0.41	13.0	480	4.9	2.9	0.001	0.03	1.51	1.5	0.5	0.2	74.6	<0.01	0.01	1.1
DD025981		0.20	12.1	410	6.5	4.2	0.001	0.05	1.10	1.7	0.3	0.2	107.0	<0.01	0.03	0.9
DD025982		0.15	11.0	310	6.6	3.6	<0.001	0.05	2.52	1.4	0.5	0.2	112.0	<0.01	0.03	0.7
DD025983		0.32	20.9	660	12.0	5.9	0.001	0.05	2.46	2.0	0.5	0.3	74.7	<0.01	0.03	0.8
DD025984		0.48	21.1	760	12.7	7.7	<0.001	0.07	2.65	2.3	0.7	0.4	59.8	<0.01	0.03	0.9
DD025985		0.44	21.6	1190	15.6	9.7	<0.001	0.09	1.30	2.0	0.4	0.6	47.0	<0.01	0.03	0.9
DD025986		0.20	10.5	410	5.2	3.3	<0.001	0.03	1.67	1.1	0.4	0.2	89.2	<0.01	0.01	0.6
DD025987		0.15	6.1	270	3.3	2.3	0.002	0.06	1.11	0.7	0.2	0.2	107.0	<0.01	0.03	0.4
DD025988		0.14	8.6	390	4.3	3.0	0.001	0.04	1.11	0.9	0.4	0.2	105.0	<0.01	0.02	0.5
DD025989		0.47	31.9	1030	17.9	10.7	<0.001	0.07	1.38	2.7	1.2	0.6	35.9	<0.01	0.03	1.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12133732**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025957		<0.005	0.58	0.83	9	<0.05	5.32	27	0.8
DD025958		0.009	0.61	0.77	14	0.09	5.74	40	1.2
DD025959		0.005	0.60	1.13	12	0.05	5.15	39	1.4
DD025960		0.005	0.20	0.92	9	0.05	4.77	33	1.2
DD025961		<0.005	0.20	1.01	9	<0.05	5.69	32	1.4
DD025962		0.006	0.28	1.64	13	<0.05	4.69	36	1.6
DD025963		0.006	0.31	1.69	14	0.06	5.67	34	1.5
DD025964		0.006	0.67	2.13	14	0.05	6.39	43	1.9
DD025965		<0.005	0.64	2.19	12	0.06	5.57	37	1.7
DD025966		0.006	0.58	2.17	15	0.12	5.49	40	1.4
DD025967		0.006	0.72	2.11	16	0.11	5.75	47	1.7
DD025968		0.005	1.70	1.65	17	<0.05	7.53	56	2.2
DD025969		0.012	0.59	1.12	25	0.08	7.68	84	1.4
DD025970		0.018	0.38	0.68	35	0.15	8.29	84	1.0
DD025971		0.026	0.35	1.07	53	0.41	8.91	123	1.4
DD025972		0.021	0.18	0.68	28	0.24	9.94	50	1.2
DD025973		0.012	0.37	0.83	20	0.12	6.00	52	1.5
DD025974		0.010	0.75	1.63	25	0.17	6.73	53	1.7
DD025975		0.017	0.19	0.89	26	0.11	8.77	57	1.4
DD025976		0.006	0.22	0.86	11	<0.05	5.60	34	1.4
DD025977		<0.005	0.27	0.92	7	<0.05	4.67	31	1.0
DD025978		0.014	0.91	0.55	21	0.16	5.57	44	1.1
DD025979		0.015	0.46	0.67	23	0.13	5.46	50	1.0
DD025980		0.017	0.23	0.72	20	0.18	5.33	38	1.0
DD025981		0.008	0.34	0.67	15	0.06	6.06	46	1.4
DD025982		0.007	0.51	0.69	12	0.05	5.51	37	1.5
DD025983		0.013	0.64	0.88	29	0.10	8.43	85	1.3
DD025984		0.016	0.57	1.13	35	0.15	7.58	133	1.2
DD025985		0.015	0.37	1.41	51	0.12	8.35	165	1.5
DD025986		0.010	0.41	0.61	16	0.06	4.20	47	1.5
DD025987		0.008	0.23	0.64	8	<0.05	4.12	30	1.1
DD025988		0.007	0.30	0.54	11	<0.05	3.66	39	1.4
DD025989		0.016	0.34	0.92	49	0.13	16.60	144	1.1





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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133732**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12133733**

Project: ATAC- Regional  
 P.O. No.: J  
 This report is for 32 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12133733**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD19501		0.33	0.010	0.29	1.12	17	<0.2	<10	340	0.40	3.00	10.25	0.80	15.65	7.6	22
DD19502		0.20	0.007	0.30	1.37	20.5	<0.2	<10	540	0.50	2.31	3.74	0.65	20.9	9.9	26
DD19503		0.07	0.006	0.28	1.07	19.4	<0.2	<10	560	0.42	2.06	4.33	0.95	16.45	8.7	21
DD19504		0.22	0.009	0.27	1.15	22.9	<0.2	<10	330	0.43	2.70	5.49	0.87	19.60	10.2	29
DD19505		0.13	0.006	0.30	1.12	18.6	<0.2	<10	510	0.45	2.20	5.62	1.21	15.40	9.2	22
DD19506		0.11	0.003	0.27	1.00	17.9	<0.2	<10	330	0.39	2.44	8.41	0.65	13.95	7.8	20
DD19507		0.22	0.006	0.41	1.19	21.1	<0.2	<10	390	0.42	3.31	9.46	0.86	15.95	9.5	25
DD19508		0.27	0.005	0.27	1.03	27.1	<0.2	<10	250	0.41	2.78	9.19	0.66	17.45	10.4	22
DD19509		0.08	0.005	0.29	1.21	22.3	<0.2	<10	450	0.48	1.95	4.68	1.03	18.15	9.3	23
DD19510		0.15	0.010	0.29	1.18	23.1	<0.2	<10	470	0.45	1.78	4.99	0.95	19.00	9.9	22
DD19511		0.21	0.007	0.28	1.27	25.6	<0.2	<10	420	0.48	2.02	4.54	0.85	22.4	10.5	23
DD19512		0.15	0.011	0.23	1.05	25.9	<0.2	<10	400	0.42	1.32	5.04	0.97	19.15	9.9	20
DD19513		0.14	0.005	0.18	0.66	28.3	<0.2	<10	200	0.39	1.28	5.41	0.50	17.30	11.7	13
DD020811		0.10	0.061	0.24	1.56	17.8	<0.2	<10	360	0.50	3.64	3.01	0.76	20.0	14.4	27
DD020812		0.15	0.005	0.24	1.98	21.2	<0.2	<10	340	0.61	6.58	1.43	0.80	26.6	16.9	38
DD020813		0.16	0.004	0.31	1.94	18.3	<0.2	<10	490	0.64	4.42	2.04	1.13	23.2	16.1	34
DD020814		0.17	0.013	0.45	1.75	46.5	<0.2	<10	360	0.56	4.98	3.07	1.15	23.9	14.7	42
DD020815		0.12	0.017	0.32	1.65	32.9	<0.2	<10	300	0.55	2.87	2.91	0.74	24.8	14.2	35
DD020816		0.20	0.007	0.31	1.85	28.2	<0.2	<10	400	0.57	4.42	2.97	1.17	24.7	15.7	32
DD020817		0.05	0.005	0.31	1.56	24.8	<0.2	<10	360	0.49	4.51	3.44	1.75	19.25	12.2	29
DD020818		0.14	0.006	0.44	1.72	31.7	<0.2	<10	480	0.60	7.16	3.07	1.21	23.2	13.3	35
DD020819		0.18	0.005	0.37	1.29	31.2	<0.2	<10	460	0.52	2.91	2.93	1.36	24.2	12.1	29
DD020820		0.27	0.007	0.39	1.34	31.1	<0.2	<10	340	0.52	3.65	3.41	1.22	26.2	12.1	30
DD019882		0.06	0.031	0.41	1.45	36.6	<0.2	<10	400	0.57	1.62	2.66	1.24	21.9	11.2	31
DD019883		0.04	0.010	0.40	1.42	31.8	<0.2	<10	460	0.63	1.92	4.15	2.31	20.6	10.1	28
DD019884		0.11	0.015	0.29	1.46	24.8	<0.2	<10	350	0.62	1.50	2.01	3.11	21.3	10.9	28
DD019885		0.13	0.007	0.42	1.56	31.0	<0.2	<10	380	0.62	2.32	2.53	1.65	22.1	12.1	35
DD019886		0.22	0.008	0.36	1.38	30.7	<0.2	<10	360	0.57	2.14	3.11	1.38	20.8	10.6	27
DD019887		0.09	0.007	0.36	1.36	31.5	<0.2	<10	360	0.51	2.75	2.69	1.85	18.70	10.6	31
DD019888		0.07	0.008	0.40	1.87	37.1	<0.2	<10	320	0.66	3.50	1.76	1.49	22.0	14.3	51
DD019889		0.11	0.009	0.93	0.51	15.1	<0.2	<10	1850	0.18	0.93	1.81	1.73	11.05	3.6	24
DD019890		0.17	0.010	0.67	1.68	44.6	<0.2	<10	450	0.70	4.55	1.36	1.72	20.0	10.9	36





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD19501		1.33	21.3	2.00	2.99	0.05	0.05	0.04	0.028	0.15	8.0	10.9	4.86	512	1.58	0.02
DD19502		1.30	26.3	2.64	3.70	0.07	0.04	0.06	0.033	0.07	10.6	12.8	2.43	573	1.21	0.01
DD19503		1.36	25.2	2.22	3.04	0.06	0.04	0.06	0.028	0.07	8.4	10.6	2.24	469	1.15	0.01
DD19504		1.50	25.2	2.43	3.67	0.07	0.04	0.04	0.031	0.07	9.9	12.0	3.71	564	1.73	0.01
DD19505		1.41	30.6	2.20	3.21	0.07	0.03	0.05	0.030	0.07	7.8	11.0	3.11	532	1.13	0.01
DD19506		1.54	19.2	1.91	2.92	0.06	0.03	0.04	0.029	0.08	7.2	9.9	4.92	454	1.17	0.01
DD19507		2.64	20.1	2.20	3.55	0.07	0.04	0.05	0.045	0.12	8.3	12.0	5.90	514	1.62	0.02
DD19508		1.80	29.4	2.69	3.08	0.07	0.04	0.04	0.039	0.09	8.9	10.6	4.88	522	1.92	0.01
DD19509		1.07	21.5	2.43	3.39	0.07	0.03	0.05	0.034	0.07	9.4	11.2	2.71	667	1.48	0.02
DD19510		0.99	25.1	2.53	3.24	0.07	0.03	0.06	0.033	0.07	9.5	11.3	2.84	578	1.82	0.01
DD19511		1.07	25.8	2.64	3.57	0.07	0.04	0.05	0.035	0.08	11.4	12.1	2.79	568	2.07	0.01
DD19512		0.81	25.8	2.44	2.94	0.07	0.04	0.05	0.030	0.08	9.5	10.0	2.68	483	2.09	0.01
DD19513		0.69	28.1	2.82	1.90	0.07	0.04	0.04	0.026	0.06	8.4	6.4	3.25	470	2.30	0.01
DD020811		2.32	25.3	2.99	4.54	0.08	0.04	0.05	0.030	0.06	9.8	14.3	1.18	1140	1.29	0.02
DD020812		3.22	29.2	3.52	5.93	0.09	0.05	0.04	0.041	0.09	12.8	19.4	1.09	743	1.49	0.02
DD020813		2.73	33.4	3.31	5.59	0.09	0.05	0.05	0.036	0.08	11.9	17.7	1.05	626	1.32	0.02
DD020814		2.89	31.1	3.47	5.15	0.09	0.04	0.06	0.040	0.07	13.0	18.4	2.00	873	2.27	0.03
DD020815		1.98	30.0	3.24	4.76	0.09	0.04	0.06	0.038	0.06	12.8	17.2	2.02	710	2.75	0.03
DD020816		2.94	34.8	3.44	5.40	0.09	0.04	0.05	0.041	0.09	12.4	17.5	1.87	564	1.71	0.02
DD020817		2.28	32.2	2.97	4.55	0.08	0.04	0.06	0.038	0.08	9.7	15.7	1.63	511	2.13	0.02
DD020818		3.09	33.2	3.17	4.96	0.08	0.04	0.06	0.063	0.11	12.0	16.4	1.97	937	2.42	0.02
DD020819		1.39	34.0	2.79	3.88	0.08	0.05	0.06	0.054	0.09	12.6	13.6	1.49	641	2.60	0.01
DD020820		1.59	28.5	2.96	3.87	0.08	0.06	0.06	0.055	0.10	13.4	13.6	2.08	582	2.76	0.02
DD019882		2.07	39.4	2.86	4.13	0.09	0.06	0.07	0.049	0.14	11.4	15.7	1.37	480	3.42	0.02
DD019883		2.59	41.2	2.62	3.94	0.08	0.06	0.07	0.049	0.15	10.8	15.7	2.34	470	4.99	0.02
DD019884		1.96	36.9	2.47	4.16	0.08	0.06	0.06	0.046	0.13	10.7	15.9	1.21	594	3.15	0.02
DD019885		2.34	39.0	2.94	4.49	0.08	0.05	0.07	0.048	0.15	11.3	17.4	1.47	513	3.20	0.02
DD019886		1.98	34.7	2.75	3.98	0.08	0.05	0.07	0.043	0.13	10.5	14.5	1.81	489	3.58	0.02
DD019887		2.08	38.2	2.61	3.91	0.08	0.05	0.07	0.041	0.11	9.4	14.2	1.25	524	2.93	0.02
DD019888		4.66	40.8	3.37	5.54	0.09	0.05	0.08	0.052	0.17	11.1	19.6	1.28	511	3.25	0.02
DD019889		1.05	56.3	1.51	1.72	<0.05	0.05	0.19	0.015	0.07	8.1	4.8	0.34	222	7.59	0.03
DD019890		1.86	48.5	3.15	4.83	<0.05	0.05	0.08	0.054	0.12	11.1	15.2	1.02	547	4.84	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133733**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD19501		1.44	22.3	910	23.7	13.2	<0.001	0.04	1.06	2.9	0.8	0.6	70.4	<0.01	0.04	1.8
DD19502		1.08	27.7	810	25.3	10.7	<0.001	0.04	1.77	3.1	1.0	0.7	27.8	<0.01	0.04	1.3
DD19503		1.24	25.2	900	23.6	12.3	<0.001	0.08	1.32	2.5	1.4	0.6	50.3	<0.01	0.03	1.1
DD19504		1.39	31.3	860	23.1	9.9	0.001	0.03	1.04	3.7	1.1	0.6	60.9	<0.01	0.03	1.8
DD19505		1.24	25.9	910	22.2	10.9	0.001	0.08	0.95	2.4	1.7	0.6	56.7	<0.01	0.03	0.9
DD19506		1.44	22.2	900	23.8	11.0	0.001	0.05	0.92	2.6	1.1	0.6	45.0	<0.01	0.03	1.1
DD19507		1.71	27.0	960	31.3	16.0	<0.001	0.03	1.04	3.3	1.0	0.9	53.2	<0.01	0.03	1.7
DD19508		1.39	28.4	890	27.7	12.1	<0.001	0.03	1.83	3.7	1.0	0.8	76.5	<0.01	0.03	2.8
DD19509		1.19	25.7	900	24.9	9.5	<0.001	0.06	1.07	2.6	1.3	0.6	41.9	<0.01	0.03	1.0
DD19510		1.04	26.9	1070	25.9	9.0	0.001	0.07	1.52	2.6	1.8	0.5	62.5	<0.01	0.03	1.0
DD19511		1.16	30.0	980	27.1	9.1	<0.001	0.05	1.41	3.0	1.2	0.6	39.6	<0.01	0.03	1.4
DD19512		1.03	28.4	1020	21.6	7.7	<0.001	0.08	1.60	2.5	1.2	0.5	48.6	<0.01	0.03	1.1
DD19513		0.70	25.3	810	25.1	6.3	<0.001	0.05	2.40	2.6	1.2	0.4	72.6	<0.01	0.04	2.0
DD020811		2.33	30.6	1040	20.7	11.9	<0.001	0.08	1.03	3.1	1.0	0.9	48.6	0.01	0.03	1.1
DD020812		2.73	37.3	1110	32.3	15.9	<0.001	0.06	1.03	4.3	1.1	1.7	30.5	0.01	0.04	2.1
DD020813		2.71	37.2	1200	27.1	15.6	<0.001	0.07	1.07	3.9	1.1	1.1	36.6	0.01	0.04	1.5
DD020814		2.20	42.8	1320	29.8	12.8	<0.001	0.05	1.28	4.9	1.4	0.9	43.6	<0.01	0.05	1.9
DD020815		2.01	40.9	1140	24.5	11.4	<0.001	0.04	1.13	4.5	1.2	0.7	36.9	<0.01	0.03	2.3
DD020816		2.96	37.9	1460	26.3	15.1	<0.001	0.06	1.33	4.2	1.2	1.0	42.3	0.01	0.04	2.1
DD020817		2.26	33.4	1150	24.4	14.6	<0.001	0.09	1.30	3.1	1.5	1.0	48.1	0.01	0.04	1.1
DD020818		2.02	39.3	1080	33.6	18.6	<0.001	0.05	1.44	3.7	1.4	1.5	36.0	<0.01	0.04	1.6
DD020819		1.50	37.7	1130	25.4	11.2	<0.001	0.05	1.71	3.3	1.4	1.1	40.1	<0.01	0.05	1.7
DD020820		1.54	36.2	1170	28.7	11.4	0.001	0.04	1.57	3.8	1.2	0.8	38.6	<0.01	0.05	2.3
DD019882		1.34	43.6	930	35.7	15.8	0.002	0.07	2.32	3.5	1.8	2.4	44.2	<0.01	0.05	1.9
DD019883		1.21	47.4	940	33.7	20.8	0.002	0.07	3.46	3.2	2.1	1.9	49.7	<0.01	0.04	1.9
DD019884		1.23	43.8	960	26.4	16.0	0.002	0.08	2.02	3.2	1.7	1.5	34.6	<0.01	0.04	1.5
DD019885		1.43	45.3	1000	32.1	20.5	0.002	0.08	2.07	3.9	1.7	1.5	41.5	<0.01	0.04	1.8
DD019886		1.27	39.2	1030	28.1	18.4	0.003	0.07	2.11	3.5	1.9	1.4	41.7	<0.01	0.04	1.9
DD019887		1.33	42.0	1020	26.8	14.1	0.001	0.08	1.92	3.1	1.7	1.4	38.5	<0.01	0.04	1.3
DD019888		2.06	57.0	930	33.8	31.1	0.001	0.08	1.81	4.4	1.7	1.9	34.8	<0.01	0.05	1.8
DD019889		1.77	27.0	720	16.3	9.1	0.003	0.13	2.80	1.4	6.0	0.5	68.9	0.01	0.12	0.9
DD019890		1.12	53.0	750	34.3	14.3	0.002	0.03	2.07	3.1	2.3	2.1	31.2	<0.01	0.08	1.8



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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133733**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD19501		0.032	0.19	0.69	35	2.28	7.57	152	1.9
DD19502		0.031	0.12	0.88	44	1.72	8.79	146	1.3
DD19503		0.028	0.15	1.79	36	0.93	7.36	180	1.6
DD19504		0.037	0.19	1.08	42	1.39	8.35	156	1.6
DD19505		0.028	0.13	1.61	36	2.36	8.17	155	1.3
DD19506		0.029	0.15	0.94	34	1.89	7.30	151	1.3
DD19507		0.041	0.24	0.81	38	3.30	7.54	198	1.6
DD19508		0.036	0.23	0.74	35	2.04	8.88	167	1.8
DD19509		0.027	0.13	0.98	40	0.92	8.56	161	1.2
DD19510		0.025	0.13	1.32	39	2.33	8.57	166	1.2
DD19511		0.028	0.13	1.03	42	1.06	9.01	150	1.5
DD19512		0.021	0.13	1.28	35	0.63	8.08	152	1.7
DD19513		0.016	0.13	0.85	24	0.76	9.64	117	1.5
DD020811		0.044	0.19	0.85	44	1.44	8.44	120	1.3
DD020812		0.058	0.26	0.82	59	2.48	9.51	178	1.6
DD020813		0.049	0.20	0.95	53	1.53	10.10	161	1.7
DD020814		0.058	0.24	1.00	59	2.11	12.50	193	1.3
DD020815		0.054	0.20	0.88	52	2.78	11.85	145	1.5
DD020816		0.057	0.24	1.08	54	2.24	10.20	177	1.7
DD020817		0.043	0.24	1.14	51	2.79	8.07	174	1.6
DD020818		0.051	0.28	0.96	59	9.81	9.36	233	1.5
DD020819		0.035	0.17	1.22	45	1.72	9.63	173	2.0
DD020820		0.039	0.20	1.20	49	2.48	9.61	230	2.1
DD019882		0.035	0.26	0.94	59	1.34	8.98	185	2.5
DD019883		0.034	0.40	1.11	65	3.12	8.64	262	2.5
DD019884		0.032	0.26	1.20	56	2.91	8.23	202	2.1
DD019885		0.041	0.30	1.05	59	1.91	9.34	220	2.2
DD019886		0.035	0.26	1.07	55	2.35	8.32	191	2.3
DD019887		0.035	0.25	1.18	53	3.00	7.81	186	2.2
DD019888		0.063	0.41	0.98	69	4.44	8.74	248	2.2
DD019889		0.055	0.50	2.41	114	1.06	5.76	152	2.0
DD019890		0.038	0.27	1.08	76	7.51	9.29	258	1.8





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**CERTIFICATE OF ANALYSIS WH12133733**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12133734**

Project: ATAC- Regional- Area I,J  
 P.O. No.: Silt 5  
 This report is for 5 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12133734**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD019584		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020080		0.24	0.005	0.46	1.55	17.7	<0.2	<10	420	0.53	0.53	1.05	13.75	20.9	15.5	46
DD020142		0.29	0.003	0.28	1.13	11.3	<0.2	<10	230	0.53	0.21	1.92	0.97	18.05	5.8	18
DD020143		0.28	0.004	0.45	1.46	16.2	<0.2	<10	420	0.49	0.44	1.36	11.00	20.7	14.4	43
DD020144		0.30	0.005	0.43	1.47	19.2	<0.2	<10	410	0.47	0.52	1.23	10.75	21.4	15.0	42
DD020144		0.28	0.003	0.24	1.27	14.3	<0.2	<10	360	0.39	0.41	0.87	6.47	19.30	11.6	37

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**CERTIFICATE OF ANALYSIS WH12133734**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD019584		3.81	72.4	3.16	4.35	0.06	0.04	0.12	0.049	0.07	11.1	19.3	0.79	500	5.73	0.02
DD020080		1.16	12.8	1.99	2.75	<0.05	0.05	0.03	0.023	0.04	9.6	16.5	1.10	224	1.36	0.03
DD020142		3.03	56.5	2.94	4.24	0.05	0.04	0.09	0.038	0.07	10.1	17.6	0.89	509	5.80	0.02
DD020143		3.19	54.1	2.94	4.45	0.05	0.05	0.09	0.047	0.07	10.3	18.3	0.85	470	5.27	0.02
DD020144		2.44	32.9	2.50	3.84	0.05	0.04	0.05	0.039	0.06	9.6	15.6	0.80	331	3.98	0.02

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Project: ATAC- Regional- Area I,J

**CERTIFICATE OF ANALYSIS WH12133734**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD019584		0.74	157.0	960	24.4	18.3	0.007	0.06	3.20	2.7	2.8	1.4	37.2	<0.01	0.05	1.3
DD020080		0.36	20.8	880	23.9	7.8	0.003	0.03	0.81	1.8	0.8	0.4	34.5	<0.01	0.02	3.1
DD020142		0.80	111.5	980	23.8	16.6	0.009	0.07	2.93	2.7	3.9	0.9	38.0	<0.01	0.06	1.4
DD020143		0.88	109.5	960	27.2	15.7	0.010	0.07	2.81	2.9	2.9	1.7	39.6	<0.01	0.05	1.6
DD020144		0.84	76.1	910	19.6	12.4	0.004	0.03	2.25	2.3	1.4	1.0	32.8	<0.01	0.03	1.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional- Area I,J

**CERTIFICATE OF ANALYSIS WH12133734**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019584		0.041	0.85	2.72	64	0.27	11.00	812	1.2
DD020080		0.016	0.15	0.68	24	1.32	8.24	182	1.5
DD020142		0.040	0.68	2.51	64	0.22	10.15	544	1.5
DD020143		0.041	0.74	2.25	65	0.30	9.74	545	1.5
DD020144		0.043	0.52	1.28	55	0.22	7.28	413	1.2

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Project: ATAC- Regional- Area I,J

**CERTIFICATE OF ANALYSIS WH12133734**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12133735**

Project: ATAC- Regional  
 P.O. No.: Silt 3  
 This report is for 18 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

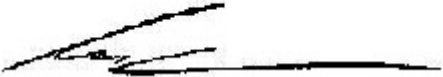
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133735**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019549		0.16	0.003	0.13	0.95	19.0	<0.2	<10	170	0.51	0.16	8.72	0.53	20.8	8.5	18
DD019550		0.24	0.001	0.10	0.88	18.0	<0.2	<10	270	0.53	0.13	9.46	0.49	16.90	5.7	15
DD020503		0.28	0.003	0.19	0.60	20	<0.2	<10	430	0.61	0.12	14.95	2.57	11.95	10.9	12
DD020504		0.39	0.002	0.15	0.61	22	<0.2	<10	340	0.67	0.12	14.60	2.79	12.40	11.7	11
DD020505		0.45	0.002	0.07	0.91	9	<0.2	<10	170	0.76	0.17	11.05	0.34	16.70	10.7	14
DD020506		0.29	0.001	0.07	0.41	39	<0.2	<10	100	0.47	0.08	14.20	0.55	8.42	3.6	7
DD020507		0.33	0.001	0.13	0.80	12.7	<0.2	<10	160	0.86	0.22	3.40	0.59	21.4	12.6	13
DD020946		0.40	0.001	0.23	1.06	56.9	<0.2	<10	170	0.98	0.20	6.56	1.04	17.20	8.6	16
DD020947		0.22	0.006	0.30	0.88	27.8	<0.2	<10	200	0.84	0.16	5.01	6.85	12.05	6.5	13
DD020948		0.23	0.002	0.13	0.25	47	<0.2	<10	70	0.29	0.06	14.30	5.03	3.67	2.4	5
DD020145		0.45	0.005	0.49	1.32	18.0	<0.2	<10	360	0.59	0.62	1.30	11.15	22.2	9.7	25
DD020146		0.14	0.003	0.38	1.20	12.3	<0.2	<10	390	0.54	0.46	1.27	7.13	18.55	7.0	22
DD020148		0.11	0.003	0.10	0.37	17.5	<0.2	<10	40	0.90	0.31	1.63	0.70	43.5	19.3	5
DD020501		0.14	0.003	0.16	1.19	9.4	<0.2	<10	150	1.05	0.23	1.81	0.38	20.7	11.7	20
DD020502		0.27	0.003	0.06	0.39	35	<0.2	<10	90	0.54	0.07	16.20	0.42	7.53	3.0	8
Dd019552		0.19	0.019	0.10	1.07	12.5	<0.2	<10	520	0.24	0.54	4.53	3.81	18.50	10.2	39
DD019588		0.22	0.001	0.06	0.48	34	<0.2	<10	110	0.72	0.09	14.90	0.91	8.60	3.7	9
DD019589		0.45	0.002	0.13	0.81	11.8	<0.2	<10	130	0.88	0.23	2.74	0.55	24.8	13.0	13

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133735**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD019549		0.84	21.9	2.20	2.55	<0.05	0.06	0.09	0.021	0.08	10.3	8.7	4.71	304	4.73	0.03
DD019550		0.64	15.6	1.66	2.10	<0.05	0.05	0.06	0.016	0.06	8.4	6.8	5.16	226	2.45	0.02
DD020503		1.21	24.9	1.43	1.43	0.05	0.05	0.15	0.017	0.07	6.8	4.5	8.04	278	7.72	0.03
DD020504		1.08	25.1	1.44	1.40	0.05	0.05	0.13	0.016	0.06	6.5	5.0	7.78	314	7.31	0.03
DD020505		2.02	24.2	2.10	2.59	0.05	0.08	0.06	0.022	0.13	7.8	12.7	4.86	372	1.01	0.02
DD020506		1.24	9.7	0.91	1.09	<0.05	0.04	0.16	0.011	0.05	4.0	4.4	8.06	150	0.66	0.02
DD020507		1.04	33.4	2.67	2.37	0.05	0.08	0.14	0.036	0.12	10.1	10.8	1.69	454	1.31	0.01
DD020946		2.57	23.3	2.28	2.72	<0.05	0.09	0.24	0.029	0.12	8.2	11.2	4.04	312	0.78	0.02
DD020947		2.87	30.0	1.89	2.25	<0.05	0.11	0.45	0.028	0.12	5.5	8.2	2.50	244	0.70	0.02
DD020948		2.52	9.1	0.63	0.71	<0.05	0.03	0.41	0.014	0.06	1.6	3.1	8.91	228	0.61	0.03
DD020145		1.73	38.1	2.07	3.32	0.05	0.06	0.11	0.039	0.07	12.7	18.0	0.82	358	2.73	0.02
DD020146		1.31	26.2	1.83	2.99	<0.05	0.04	0.08	0.030	0.06	11.2	15.4	0.63	317	1.48	0.03
DD020148		0.78	66.2	3.17	1.09	0.07	0.06	0.22	0.037	0.12	22.3	3.8	0.78	597	2.77	0.01
DD020501		1.28	37.8	2.82	3.42	0.06	0.08	0.12	0.035	0.14	10.6	16.7	0.74	443	0.84	0.01
DD020502		0.81	7.8	0.78	0.99	<0.05	0.03	0.23	0.011	0.03	3.7	3.8	9.42	173	0.49	0.02
Dd019552		1.15	17.3	1.95	3.34	0.06	0.04	0.05	0.018	0.04	9.6	11.1	3.29	518	1.61	0.02
DD019588		1.21	12.6	0.95	1.24	<0.05	0.04	0.20	0.010	0.06	4.2	4.8	8.44	169	0.72	0.02
DD019589		1.08	35.6	2.99	2.23	0.06	0.08	0.14	0.034	0.14	11.4	10.2	1.42	384	1.40	0.02

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 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133735**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD019549		0.62	26.4	580	11.9	5.8	0.001	0.05	1.27	3.1	0.8	0.3	66.3	<0.01	0.03	1.8
DD019550		0.41	20.8	860	9.6	5.7	0.001	0.09	1.25	1.6	0.8	0.3	67.7	<0.01	0.02	0.8
DD020503		0.27	103.0	890	15.6	4.8	0.002	0.04	2.38	2.6	2.1	0.3	94.5	<0.01	0.06	1.6
DD020504		0.24	106.5	830	16.4	4.9	0.001	0.03	2.14	2.5	1.9	0.3	96.9	<0.01	0.06	1.4
DD020505		0.24	21.1	460	19.1	7.6	0.001	0.01	0.75	4.1	0.4	0.4	123.5	<0.01	0.03	3.1
DD020506		0.20	10.2	390	23.6	5.0	0.001	0.03	2.06	1.6	0.6	0.2	93.7	<0.01	0.01	0.9
DD020507		0.27	23.4	620	32.3	8.4	0.003	0.08	0.65	4.7	2.0	0.4	52.4	<0.01	0.05	2.2
DD020946		0.30	20.6	730	74.0	13.4	0.001	0.06	2.44	4.3	1.2	0.4	52.6	<0.01	0.04	1.7
DD020947		0.31	18.9	1060	60.6	15.3	0.001	0.16	1.84	3.4	2.0	0.4	42.4	<0.01	0.04	1.0
DD020948		0.07	9.4	750	102.0	9.6	<0.001	0.04	8.92	1.7	0.8	0.2	128.5	<0.01	0.03	0.5
DD020145		0.54	42.4	1000	41.5	15.0	0.007	0.06	1.39	2.5	2.3	1.4	29.2	<0.01	0.04	3.0
DD020146		0.50	31.6	1000	31.6	11.1	0.007	0.08	0.94	2.1	2.4	0.8	30.3	<0.01	0.03	2.1
DD020148		0.07	38.3	490	59.4	5.8	0.003	0.04	0.76	5.8	1.5	0.3	28.4	<0.01	0.09	3.3
DD020501		0.39	25.5	790	21.6	12.7	0.002	0.10	0.60	4.7	2.1	0.5	41.6	<0.01	0.02	1.7
DD020502		0.18	8.7	370	17.8	4.1	0.001	0.02	2.39	1.2	0.7	0.2	101.0	<0.01	0.01	0.7
Dd019552		1.23	76.6	880	8.1	5.3	0.002	0.05	0.83	2.5	1.4	0.3	39.2	<0.01	0.01	2.0
DD019588		0.23	12.8	490	23.7	5.1	0.001	0.05	2.63	1.5	0.8	0.2	94.2	<0.01	0.01	0.7
DD019589		0.27	24.2	640	34.7	9.1	0.004	0.08	0.65	5.0	1.9	0.4	43.7	<0.01	0.06	2.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133735**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019549		0.022	0.46	1.05	32	0.14	8.51	84	1.9
DD019550		0.016	1.20	1.27	28	0.15	6.75	78	1.5
DD020503		0.010	0.96	2.70	43	0.09	16.30	379	2.0
DD020504		0.009	0.95	2.47	41	0.09	15.75	373	1.9
DD020505		0.008	0.25	1.11	19	0.05	7.77	76	4.1
DD020506		0.007	0.95	1.25	13	0.28	4.30	224	1.3
DD020507		0.006	0.19	0.84	20	0.07	11.50	178	2.5
DD020946		0.008	0.37	0.84	22	0.21	10.85	387	2.6
DD020947		0.007	0.37	1.25	17	0.09	10.75	493	3.1
DD020948		<0.005	1.68	0.57	9	<0.05	3.84	735	1.1
DD020145		0.021	0.61	1.74	41	1.74	10.55	482	1.9
DD020146		0.020	0.32	1.67	33	0.70	9.08	327	1.5
DD020148		<0.005	0.24	0.54	11	<0.05	13.50	286	2.5
DD020501		0.008	0.21	1.71	26	0.08	13.95	130	2.5
DD020502		0.008	1.27	1.41	13	0.11	3.88	280	1.1
Dd019552		0.066	0.24	1.27	63	1.43	6.06	527	1.2
DD019588		0.008	1.33	1.54	15	0.10	4.69	282	1.4
DD019589		0.007	0.20	0.83	21	0.06	12.10	212	2.6





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Finalized Date: 28- JUN- 2012  
Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133735**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1  
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**CERTIFICATE WH12133736**

Project: ATAC- Regional  
 P.O. No.: Silt 4  
 This report is for 8 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133736**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020958		0.39	0.004	0.44	1.26	14.8	<0.2	<10	180	0.79	0.66	0.42	0.31	37.5	17.6	25
DD020959		0.33	0.007	0.59	1.07	19.0	<0.2	<10	160	0.69	0.72	0.55	0.32	36.4	17.2	20
DD020960		0.31	0.005	0.45	1.05	14.3	<0.2	<10	120	0.51	0.46	1.14	0.29	22.0	14.0	20
DD019929		0.27	0.002	0.54	1.57	21.1	<0.2	<10	150	0.46	0.83	8.25	2.11	21.8	18.0	86
DD019930		0.18	0.003	0.51	1.38	13.1	<0.2	<10	120	0.41	0.21	9.59	1.94	19.65	16.1	65
DD019931		0.08	0.003	0.49	1.49	13.3	<0.2	<10	140	0.39	0.14	6.90	1.56	21.5	16.8	73
DD019585		0.14	0.025	0.41	0.35	55	<0.2	<10	110	0.15	1.02	11.05	0.62	17.80	8.2	7
DD019586		0.13	0.014	0.32	0.29	38	<0.2	<10	90	0.16	0.72	16.20	0.66	9.19	4.6	5

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133736**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD020958		0.50	55.3	4.58	3.26	0.07	0.10	0.23	0.076	0.07	16.3	12.0	0.86	3300	1.00	<0.01
DD020959		0.76	93.1	4.47	3.08	0.11	0.11	0.09	0.087	0.05	15.5	10.2	0.82	3310	1.28	0.01
DD020960		0.69	63.6	4.16	3.03	0.07	0.12	0.07	0.072	0.05	12.1	7.7	0.63	2410	1.27	0.01
DD019929		1.86	57.2	3.07	5.27	0.10	0.12	0.09	0.664	0.08	12.9	16.4	5.89	671	7.17	0.01
DD019930		1.22	48.1	2.75	4.29	0.06	0.08	0.07	0.111	0.09	11.6	13.4	6.25	763	7.96	0.02
DD019931		0.96	50.5	3.04	4.85	0.08	0.08	0.08	0.033	0.08	12.5	14.8	5.47	931	6.40	0.02
DD019585		0.28	9.6	2.16	1.04	<0.05	0.03	0.07	0.127	0.02	9.3	4.9	6.56	877	0.64	0.01
DD019586		0.24	8.0	1.23	0.85	<0.05	0.02	0.06	0.073	0.01	4.8	4.2	9.89	767	0.37	0.02

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133736**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD020958		0.20	23.2	950	108.0	5.2	<0.001	0.04	1.77	3.6	0.5	0.2	11.7	<0.01	0.15	2.4
DD020959		0.17	21.2	730	234	5.0	<0.001	0.04	2.29	3.8	0.8	<0.2	8.8	0.01	0.16	2.7
DD020960		0.31	21.7	1330	171.5	5.9	0.002	0.11	1.58	3.6	0.9	0.2	16.4	0.02	0.10	1.4
DD019929		2.13	60.4	950	85.9	11.8	0.021	0.06	1.92	6.7	2.0	0.6	59.0	0.23	0.06	3.2
DD019930		1.66	52.1	990	75.1	10.8	0.004	0.04	1.90	5.2	1.2	0.3	72.2	0.04	0.05	2.2
DD019931		1.74	54.2	950	80.3	12.5	0.001	0.04	1.74	5.6	1.2	0.2	45.1	<0.01	0.04	2.2
DD019585		0.27	9.4	1320	13.1	2.5	<0.001	0.02	1.53	1.1	0.5	0.7	40.5	<0.01	0.02	1.0
DD019586		0.23	7.0	940	16.1	2.2	0.001	0.02	0.89	0.9	0.5	0.3	42.4	<0.01	0.03	0.4

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133736**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020958		0.014	0.08	0.43	18	0.10	21.8	77	2.7
DD020959		0.010	0.07	0.65	21	0.11	16.00	116	3.3
DD020960		0.013	0.08	0.71	25	0.14	17.60	87	3.1
DD019929		0.106	0.85	2.82	108	0.39	14.35	347	3.9
DD019930		0.094	0.34	2.04	104	0.17	13.25	359	2.8
DD019931		0.087	0.25	1.55	100	0.13	13.05	302	2.7
DD019585		0.008	0.29	0.91	21	0.44	5.98	301	1.1
DD019586		0.007	0.27	1.00	11	0.36	4.42	262	0.9





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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133736**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12133737**

Project: ATAC- Regional  
 P.O. No.: Silt 6  
 This report is for 1 Silt sample submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------


<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133737**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD019590		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.05	0.002	0.33	0.70	43.4	<0.2	<10	280	0.54	0.30	1.22	3.65	16.65	13.7	22

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133737**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
DD019590		2.84	42.3	2.98	2.16	0.06	0.06	0.36	0.030	0.06	9.2	9.6	0.36	386	2.13	0.01

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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133737**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD019590		0.56	180.0	710	43.4	9.1	0.006	0.06	1.86	3.5	2.5	0.3	61.8	<0.01	0.05	3.1

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**CERTIFICATE OF ANALYSIS WH12133737**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 TI ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
DD019590		0.007	0.22	1.30	26	0.10	8.65	757	2.1

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**CERTIFICATE OF ANALYSIS WH12133737**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12133738**

Project: ATAC- Regional  
 P.O. No.: Silt 2  
 This report is for 31 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12133738**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019514		0.22	0.009	0.24	0.97	19.6	<0.2	<10	170	0.35	1.44	6.11	0.75	21.7	7.9	18
DD019515		0.26	0.009	0.21	0.71	19.1	<0.2	<10	180	0.33	1.69	8.03	0.97	19.10	6.7	14
DD019516		0.33	0.014	0.54	0.48	48	<0.2	<10	210	0.27	8.96	13.00	1.64	12.80	5.5	10
DD019517		0.17	0.012	0.42	0.27	42	<0.2	<10	180	0.21	4.66	15.75	1.53	10.00	3.8	6
DD019518		0.23	0.014	0.43	0.26	40	<0.2	<10	170	0.17	3.58	15.30	1.32	8.57	3.4	6
DD019519		0.28	0.017	0.40	0.28	43	<0.2	<10	190	0.16	3.19	15.40	1.55	9.05	3.8	7
DD019520		0.26	0.017	0.43	0.32	43	<0.2	<10	180	0.22	3.73	14.60	1.53	9.71	4.1	8
DD019531		0.29	0.015	0.42	0.28	37	<0.2	<10	190	0.17	3.11	15.60	1.53	9.06	4.0	7
DD019532		0.21	0.013	0.35	0.25	39	<0.2	<10	180	0.16	3.66	15.90	1.41	8.56	3.6	6
DD019533		0.29	0.009	0.34	0.22	35	<0.2	<10	140	0.15	4.87	15.85	1.22	7.56	3.4	6
DD019534		0.38	0.010	0.32	0.22	33	<0.2	<10	170	0.14	2.89	15.95	1.25	7.78	3.6	5
DD019535		0.32	0.009	0.27	0.26	28	<0.2	<10	150	0.13	2.04	15.45	1.11	8.27	3.6	5
DD019536		0.30	0.004	0.15	0.32	9	<0.2	<10	170	0.17	0.47	13.95	0.89	9.72	4.2	5
DD019537		0.32	0.004	0.15	0.32	9	<0.2	<10	170	0.16	0.47	13.75	0.87	9.54	4.2	5
DD019538		0.42	0.005	0.19	0.29	10	<0.2	<10	170	0.15	0.86	14.65	0.95	9.83	4.1	5
DD019539		0.41	0.005	0.18	0.31	12	<0.2	<10	160	0.16	0.91	14.15	0.94	9.41	4.1	5
DD019540		0.35	0.004	0.17	0.29	11	<0.2	<10	170	0.15	0.67	14.80	0.84	9.29	4.3	5
DD019541		0.19	0.005	0.21	0.32	12	<0.2	<10	170	0.20	0.85	14.30	0.93	11.05	4.6	6
DD019542		0.24	0.006	0.18	0.29	12	<0.2	<10	160	0.16	1.29	14.25	0.86	9.67	4.2	5
DD019543		0.29	0.004	0.13	0.27	10	<0.2	<10	160	0.15	0.51	14.45	0.76	8.54	3.9	5
DD019544		0.20	0.006	0.15	0.29	10	<0.2	<10	160	0.17	0.65	14.60	0.91	9.66	4.5	5
DD019545		0.27	0.004	0.12	0.27	7	<0.2	<10	150	0.17	0.41	14.80	0.82	8.90	4.1	4
DD019546		0.30	0.004	0.11	0.26	4	<0.2	<10	140	0.14	0.26	14.50	0.76	8.37	3.8	4
DD019547		0.15	0.004	0.17	0.30	10	<0.2	<10	170	0.17	0.70	14.60	0.83	10.85	4.2	6
DD019569		0.35	0.004	0.19	0.61	14	<0.2	<10	510	0.29	0.58	11.35	2.95	12.85	9.9	17
DD019643		0.32	0.002	0.10	0.25	4	<0.2	<10	150	0.13	0.23	14.80	0.78	7.96	3.7	4
DD019812		0.26	0.016	0.29	1.17	24.0	<0.2	<10	390	0.46	0.93	2.45	1.26	22.1	9.6	24
DD019881		0.13	0.006	0.32	1.36	31.6	<0.2	<10	370	0.53	1.20	2.28	1.24	22.6	10.9	29
DD019779		0.24	0.252	0.15	0.73	9	<0.2	<10	140	0.43	2.14	17.35	0.60	9.96	4.7	11
DD019710		0.21	0.004	0.18	1.50	61	<0.2	<10	180	0.48	10.80	10.45	1.05	14.85	12.9	41
DD020901		0.09	0.001	0.15	0.24	5	<0.2	<10	230	0.16	0.28	15.25	1.32	5.71	4.2	4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12133738**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD019514		0.59	22.1	1.99	2.53	0.05	0.06	0.05	0.027	0.07	11.4	9.0	4.19	453	0.96	0.03
DD019515		0.50	19.5	1.65	2.14	<0.05	0.05	0.04	0.028	0.05	9.9	7.1	5.11	520	0.93	0.02
DD019516		0.36	14.7	1.48	1.29	<0.05	0.03	0.04	0.046	0.03	6.7	5.0	8.06	709	1.11	0.02
DD019517		0.25	11.1	1.04	0.76	<0.05	0.03	0.04	0.044	0.02	4.8	3.7	9.72	634	1.22	0.02
DD019518		0.22	10.3	1.00	0.69	<0.05	0.02	0.04	0.034	0.02	4.2	3.4	9.49	565	1.13	0.02
DD019519		0.26	8.9	1.09	0.79	<0.05	0.03	0.05	0.044	0.03	4.4	4.4	9.52	632	1.47	0.02
DD019520		0.29	10.0	1.14	0.90	<0.05	0.03	0.06	0.049	0.02	4.6	5.2	9.03	579	1.39	0.02
DD019531		0.26	8.9	1.08	0.78	<0.05	0.03	0.07	0.045	0.02	4.3	4.9	9.62	633	1.35	0.02
DD019532		0.25	8.4	1.01	0.75	<0.05	0.03	0.06	0.039	0.02	4.1	4.6	9.89	548	1.37	0.02
DD019533		0.23	7.7	0.90	0.65	<0.05	0.03	0.06	0.037	0.02	3.6	4.3	9.85	491	1.27	0.02
DD019534		0.23	7.9	0.92	0.68	<0.05	0.02	0.05	0.034	0.02	3.8	4.2	9.88	530	1.26	0.02
DD019535		0.26	7.9	0.86	0.79	<0.05	0.02	0.05	0.035	0.02	4.0	4.4	9.60	471	1.02	0.02
DD019536		0.31	8.3	0.83	1.09	<0.05	0.03	0.05	0.023	0.03	4.6	4.8	8.72	363	0.56	0.02
DD019537		0.30	8.0	0.78	1.02	0.05	0.03	0.05	0.022	0.03	4.5	4.7	8.60	369	0.56	0.02
DD019538		0.27	7.5	0.81	0.96	0.05	0.03	0.05	0.025	0.02	4.7	4.5	9.12	389	0.66	0.02
DD019539		0.31	8.0	0.81	1.05	<0.05	0.03	0.04	0.026	0.03	4.5	4.8	8.87	398	0.71	0.02
DD019540		0.27	7.5	0.78	1.00	<0.05	0.02	0.04	0.024	0.02	4.4	4.5	9.24	378	0.51	0.02
DD019541		0.33	8.3	0.89	1.13	0.05	0.02	0.05	0.029	0.03	5.3	4.6	8.93	396	0.67	0.02
DD019542		0.31	7.4	0.79	1.00	0.05	0.02	0.05	0.026	0.02	4.6	4.5	8.90	359	0.66	0.02
DD019543		0.27	7.0	0.71	0.93	0.05	0.02	0.05	0.022	0.02	4.0	4.2	9.01	322	0.50	0.02
DD019544		0.31	7.5	0.77	1.05	0.05	0.02	0.05	0.026	0.03	4.6	4.3	9.16	354	0.57	0.02
DD019545		0.30	7.7	0.66	0.95	0.06	0.02	0.06	0.021	0.02	4.2	4.1	9.27	349	0.46	0.02
DD019546		0.27	7.2	0.64	0.96	0.05	0.02	0.05	0.023	0.02	4.0	4.3	9.13	329	0.45	0.02
DD019547		0.32	7.7	0.80	1.08	0.06	0.02	0.06	0.024	0.03	5.1	4.3	9.12	371	0.58	0.02
DD019569		0.83	17.4	1.53	2.13	0.06	0.05	0.06	0.022	0.08	6.2	7.9	5.70	417	3.09	0.02
DD019643		0.25	6.7	0.61	0.87	0.05	0.02	0.04	0.018	0.02	3.8	3.9	9.31	333	0.39	0.02
DD019812		1.41	28.9	2.36	3.70	0.07	0.05	0.07	0.038	0.10	10.7	11.4	1.45	360	3.68	0.03
DD019881		1.69	32.9	2.54	4.16	0.07	0.05	0.08	0.046	0.13	10.8	13.5	1.29	411	2.95	0.03
DD019779		3.42	12.2	1.00	2.23	0.06	0.03	0.07	0.021	0.12	4.9	13.3	9.02	392	1.44	0.02
DD019710		7.12	22.0	2.37	4.77	0.08	0.03	0.06	0.028	0.17	7.3	19.6	3.30	511	1.25	0.03
DD020901		0.48	10.4	0.86	0.70	0.05	0.03	0.06	0.015	0.03	2.9	3.5	9.36	341	0.41	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12133738**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD019514		0.68	23.2	880	44.8	5.6	0.001	0.01	0.95	2.8	0.4	0.5	30.2	<0.01	0.05	3.3
DD019515		0.62	20.6	760	49.7	4.5	<0.001	0.01	1.06	2.5	0.5	0.5	33.1	<0.01	0.03	2.8
DD019516		0.33	17.2	610	132.0	2.8	<0.001	0.01	1.89	1.5	0.5	0.9	43.0	<0.01	0.05	1.1
DD019517		0.24	13.1	440	151.5	1.9	<0.001	0.01	1.86	1.1	0.3	0.7	50.8	<0.01	0.05	0.9
DD019518		0.20	12.0	420	144.0	1.7	0.001	0.01	1.83	1.0	0.4	0.9	45.6	<0.01	0.04	0.9
DD019519		0.29	7.5	460	152.5	2.3	<0.001	0.02	1.77	1.4	0.4	1.5	52.1	<0.01	0.04	0.8
DD019520		0.30	8.5	510	159.0	2.4	<0.001	0.02	1.83	1.6	0.4	0.8	49.8	<0.01	0.04	0.8
DD019531		0.30	7.6	460	157.0	2.4	<0.001	0.02	1.79	1.4	0.4	0.9	52.9	<0.01	0.04	0.8
DD019532		0.29	6.7	430	139.0	1.8	<0.001	0.02	1.69	1.3	0.3	0.7	55.8	<0.01	0.05	0.8
DD019533		0.27	5.9	380	123.5	1.7	<0.001	0.02	1.55	1.2	0.4	1.7	53.5	<0.01	0.04	0.7
DD019534		0.27	6.3	380	127.5	1.6	<0.001	0.02	1.56	1.2	0.4	0.7	52.8	<0.01	0.03	0.7
DD019535		0.36	6.1	410	102.5	1.9	<0.001	0.02	1.29	1.3	0.4	1.1	51.6	<0.01	0.03	0.7
DD019536		0.49	6.5	490	46.2	2.4	<0.001	0.02	0.71	1.5	0.3	0.2	42.4	<0.01	0.03	0.9
DD019537		0.46	6.3	490	47.6	2.3	<0.001	0.01	0.66	1.4	0.4	0.2	42.0	<0.01	0.02	0.8
DD019538		0.46	6.0	490	61.8	2.1	<0.001	0.01	0.87	1.4	0.3	0.4	44.1	<0.01	0.02	0.9
DD019539		0.43	6.6	470	59.8	2.3	<0.001	0.02	0.84	1.4	0.4	0.3	44.8	<0.01	0.02	0.8
DD019540		0.42	6.2	480	49.9	2.2	<0.001	0.01	0.74	1.3	0.4	0.3	43.5	<0.01	0.02	0.9
DD019541		0.51	7.4	550	67.9	2.5	<0.001	0.02	0.90	1.5	0.4	0.3	42.9	<0.01	0.02	1.0
DD019542		0.45	7.2	480	60.9	2.4	<0.001	0.01	0.82	1.4	0.4	0.3	45.9	<0.01	0.03	0.9
DD019543		0.42	6.3	480	44.6	2.1	<0.001	0.01	0.68	1.3	0.3	0.3	40.3	<0.01	0.02	0.9
DD019544		0.47	6.9	490	52.3	2.4	<0.001	0.02	0.75	1.4	0.5	0.3	43.5	<0.01	0.02	0.8
DD019545		0.44	6.4	430	44.3	2.2	<0.001	0.01	0.62	1.3	0.4	1.2	41.7	<0.01	0.02	0.7
DD019546		0.43	5.9	430	38.8	2.0	<0.001	0.01	0.56	1.3	0.3	0.2	41.2	<0.01	0.02	0.8
DD019547		0.48	7.4	510	52.6	2.4	<0.001	0.01	0.77	1.4	0.5	0.2	42.9	<0.01	0.02	1.0
DD019569		0.89	41.3	1090	18.5	6.6	0.002	0.04	1.07	2.4	1.4	0.3	127.5	<0.01	0.03	1.6
DD019643		0.35	6.1	410	37.6	1.9	<0.001	0.01	0.51	1.2	0.3	<0.2	39.5	<0.01	0.02	0.7
DD019812		0.99	35.9	1000	23.7	11.4	0.001	0.03	2.13	3.0	1.5	1.2	37.3	<0.01	0.06	2.2
DD019881		1.02	38.8	940	31.8	13.7	0.001	0.04	2.02	3.1	1.3	1.4	40.7	<0.01	0.06	1.9
DD019779		0.59	13.0	340	13.5	19.1	0.001	0.03	0.63	2.1	0.8	0.9	114.0	<0.01	0.03	1.2
DD019710		1.39	38.4	680	23.4	27.2	0.001	0.04	0.85	3.8	0.9	1.2	100.0	<0.01	0.04	1.5
DD020901		0.18	6.7	640	30.5	3.4	<0.001	0.05	1.43	1.1	1.0	<0.2	45.6	<0.01	0.05	0.5



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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12133738**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019514		0.041	0.10	0.81	36	0.75	7.53	173	2.4
DD019515		0.035	0.08	0.91	30	0.65	6.57	188	2.2
DD019516		0.016	0.11	1.21	25	1.50	4.85	368	1.0
DD019517		0.011	0.13	1.36	20	1.58	3.88	383	0.9
DD019518		0.011	0.11	1.23	19	1.46	3.52	363	0.8
DD019519		0.012	0.14	1.04	21	1.43	4.08	427	1.0
DD019520		0.013	0.14	1.01	21	1.33	4.31	420	1.0
DD019531		0.012	0.14	1.05	20	1.33	4.01	397	1.0
DD019532		0.011	0.13	1.06	19	1.37	3.88	363	0.9
DD019533		0.009	0.11	1.03	18	1.73	3.51	333	0.8
DD019534		0.010	0.12	1.01	18	1.25	3.43	333	0.8
DD019535		0.012	0.10	0.91	17	0.88	3.45	285	0.8
DD019536		0.018	0.06	0.48	15	0.30	3.55	192	0.9
DD019537		0.017	0.06	0.47	15	0.33	3.45	192	0.9
DD019538		0.017	0.07	0.58	16	0.47	3.51	217	0.8
DD019539		0.016	0.07	0.59	16	0.40	3.51	220	0.9
DD019540		0.015	0.06	0.52	15	0.31	3.30	199	0.8
DD019541		0.018	0.07	0.60	18	0.45	3.68	257	0.9
DD019542		0.016	0.06	0.61	15	0.49	3.53	211	0.9
DD019543		0.016	0.05	0.51	14	0.29	3.21	176	0.8
DD019544		0.016	0.06	0.54	15	0.33	3.43	211	0.8
DD019545		0.015	0.05	0.50	13	0.27	3.14	178	0.8
DD019546		0.015	0.05	0.46	13	0.19	3.12	167	0.8
DD019547		0.017	0.06	0.56	15	0.46	3.52	222	0.9
DD019569		0.031	0.15	1.06	36	0.33	6.84	320	1.9
DD019643		0.014	0.05	0.42	12	0.20	2.89	165	0.8
DD019812		0.035	0.23	0.81	56	1.76	7.73	168	2.0
DD019881		0.037	0.24	0.78	59	1.27	7.46	189	1.9
DD019779		0.027	0.26	1.13	17	14.85	4.63	116	1.0
DD019710		0.074	0.34	0.45	38	3.92	6.44	313	1.1
DD020901		0.006	0.05	1.08	9	0.33	3.94	195	1.3





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**CERTIFICATE OF ANALYSIS WH12133738**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12138691**

Project: ATAC- Regional- Areas C,G  
 P.O. No.: R5  
 This report is for 38 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12138691**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L837756		1.32	<0.01	0.17	0.39	10	70	0.12	0.90	18.55	0.45	4.39	1.5	5	0.22	6.7
L837757		0.97	0.04	0.67	0.17	429	150	0.15	3.27	18.50	1.59	13.05	2.2	3	0.10	43.6
L837758		1.08	0.01	0.38	0.18	68	120	0.10	0.57	20.4	0.61	4.68	1.1	3	0.12	7.4
L837759		2.46	0.04	8.66	0.03	428	3800	0.06	9.42	20.8	6.01	19.30	0.8	2	0.07	130.5
L837760		1.18	0.02	12.35	0.03	420	4880	0.07	9.24	24.1	7.16	43.5	0.6	1	<0.05	87.1
L837761		0.57	<0.01	0.07	1.41	128.0	90	0.22	0.10	0.33	0.06	27.1	4.1	18	0.25	5.0
L837762		0.34	<0.01	0.04	0.82	290	70	0.28	0.06	17.65	0.04	14.20	9.9	10	1.40	86.8
L837763		0.54	<0.01	<0.01	0.41	103	90	0.17	0.02	30.3	0.15	8.77	1.2	5	0.20	2.7
L837764		0.28	<0.01	<0.01	0.70	1280	310	0.25	0.03	29.6	0.12	7.84	5.0	7	2.16	4.2
L837765		0.50	<0.01	<0.01	5.50	6.3	380	1.44	0.22	0.20	0.02	84.0	7.8	38	11.15	15.6
L837766		0.23	<0.01	0.04	0.61	7.1	690	0.34	0.05	0.21	0.11	30.0	2.5	10	0.47	9.7
L837767		0.64	<0.01	0.03	0.62	4.3	790	0.29	0.06	0.31	0.67	23.9	2.4	11	0.47	8.6
L837768		0.69	<0.01	0.03	0.54	4.2	340	0.22	0.04	2.73	0.23	17.85	2.2	17	0.36	8.3
L837769		0.49	<0.01	0.03	1.06	4.4	70	0.41	0.04	0.13	0.11	8.68	4.5	21	1.52	8.4
L837770		0.55	<0.01	0.15	0.39	472	2790	0.71	0.02	18.95	0.74	10.90	8.1	27	0.28	12.2
L837771		0.35	<0.01	0.23	9.98	16.6	6840	0.35	0.03	0.52	0.29	30.0	11.7	85	1.60	7.4
L837772		0.18	<0.01	0.62	0.52	128.0	530	0.28	0.03	0.48	0.43	7.79	3.2	7	0.79	58.3
L837773		0.31	<0.01	0.07	1.08	<5	60	0.31	0.02	19.05	0.02	20.3	2.8	18	4.03	4.4
L837774		0.57	<0.01	0.01	0.23	<5	30	0.11	0.01	21.6	0.02	4.13	0.7	6	0.37	1.4
L837775		0.25	<0.01	0.01	0.39	7	20	0.17	0.01	22.3	0.03	5.82	1.3	10	0.46	1.6
G0557631		0.32	<0.01	0.02	0.23	3.0	60	0.06	0.01	0.19	0.13	5.08	1.6	23	0.12	3.2
G0557632		0.82	<0.01	0.03	0.24	0.4	40	0.10	0.01	8.45	0.42	3.00	3.4	15	0.09	9.9
K242180		0.96	<0.01	0.01	0.05	<5	210	0.12	<0.01	20.1	0.08	2.65	0.8	4	<0.05	1.5
K242181		0.43	<0.01	0.04	1.14	139.0	110	0.24	0.04	0.53	0.06	27.0	2.8	17	0.16	4.6
K242182		0.89	<0.01	0.14	0.41	226	200	0.15	0.02	16.40	0.94	13.00	17.9	7	0.42	1300
K242183		0.71	<0.01	0.02	0.31	159	40	0.19	0.01	18.95	0.69	9.01	3.7	6	0.27	15.5
K242184		0.43	<0.01	0.04	1.07	2400	390	0.48	0.04	30.8	0.14	13.35	7.4	11	2.73	8.2
K242185		0.43	<0.01	0.16	1.89	24.1	270	0.39	0.07	0.12	0.20	19.10	3.5	44	0.72	19.5
K242186		0.52	<0.01	0.02	0.28	14.4	50	0.14	0.03	1.78	0.02	10.90	1.3	11	0.16	6.7
K242187		0.53	<0.01	0.02	0.76	28	50	0.21	0.02	11.10	<0.02	25.3	12.9	14	0.49	2.7
K242188		0.57	<0.01	0.05	0.79	19	100	0.36	0.06	10.05	0.11	23.2	3.7	14	0.60	5.5
K242189		0.57	<0.01	0.10	3.27	2.3	290	1.06	0.12	2.81	0.15	43.2	7.7	27	2.96	15.8
K242190		0.91	<0.01	0.06	9.43	8.1	450	2.10	0.30	0.05	<0.02	62.2	2.7	123	13.75	11.6
K242191		0.34	0.01	0.64	0.90	1240	1960	0.73	0.11	3.49	1.83	22.3	121.5	34	0.85	153.0
K242192		0.43	<0.01	<0.01	0.16	5	140	0.13	<0.01	20.8	0.02	5.73	0.9	3	0.17	1.0
K242193		0.48	<0.01	0.04	0.90	15	190	0.20	0.01	21.8	0.05	12.20	4.9	9	0.66	3.6
K242194		0.57	<0.01	0.05	0.21	36	200	0.11	0.02	23.7	0.31	10.25	3.9	4	0.13	6.3
K242195		0.53	0.01	0.26	10.45	18.2	640	3.30	0.18	1.25	0.03	37.7	4.1	257	55.7	14.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Plus Appendix Pages  
 Finalized Date: 5- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Areas C,G

**CERTIFICATE OF ANALYSIS WH12138691**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L837756		0.36	1.05	0.28	0.1	0.01	0.028	0.09	2.4	2.4	11.65	247	0.13	0.07	1.0	3.8
L837757		4.15	0.76	0.10	0.1	0.12	0.893	0.04	10.4	1.7	11.65	816	0.32	0.02	0.7	10.1
L837758		0.78	0.57	0.13	0.1	0.02	0.178	0.04	3.3	1.6	12.95	781	0.14	0.03	0.5	4.8
L837759		3.65	1.08	0.09	<0.1	0.10	1.905	<0.01	16.4	1.5	7.08	17100	1.38	0.02	0.2	2.9
L837760		5.72	1.82	0.11	<0.1	0.11	3.68	0.01	39.0	1.0	4.48	28400	2.03	0.01	0.3	2.3
L837761		2.25	3.24	0.08	1.5	0.01	0.022	0.12	13.9	74.5	0.28	1000	0.56	0.01	2.8	5.9
L837762		3.17	2.46	0.10	0.3	0.42	0.030	0.35	6.5	3.9	9.46	2370	0.23	0.01	1.5	11.6
L837763		0.36	0.91	0.11	0.2	0.30	0.005	0.11	5.3	20.5	0.98	295	0.27	0.01	0.9	2.3
L837764		1.21	1.88	0.09	0.3	0.01	0.007	0.22	4.1	14.5	0.72	1170	0.09	0.08	1.6	6.2
L837765		2.12	16.05	0.22	2.9	0.02	0.048	2.19	39.9	85.8	0.36	88	0.21	0.08	13.7	15.0
L837766		1.31	2.05	0.07	0.5	0.01	0.007	0.20	11.7	10.5	0.08	8900	0.30	0.05	1.9	5.7
L837767		1.26	1.90	0.07	0.5	0.03	0.011	0.20	8.6	15.4	0.08	5970	0.22	0.04	1.9	4.3
L837768		1.18	1.54	0.06	0.4	0.01	0.007	0.18	6.8	16.8	0.39	4530	0.21	0.03	1.9	3.6
L837769		1.06	2.91	0.05	0.4	0.01	0.008	0.37	4.0	13.1	0.12	248	0.34	0.02	1.1	13.0
L837770		10.60	1.72	0.17	0.3	2.8	0.008	0.08	9.1	1.4	6.87	283	21.6	0.02	0.8	61.3
L837771		5.56	12.60	0.15	2.0	0.17	0.024	1.69	9.5	43.5	0.29	46	3.96	0.02	35.6	15.6
L837772		>50	1.16	0.54	0.3	3.0	0.015	0.18	5.5	1.3	0.44	154	16.35	0.01	2.4	11.3
L837773		1.04	2.58	0.06	0.7	0.03	0.008	0.67	9.2	4.4	9.98	119	1.29	0.01	7.2	6.7
L837774		0.17	0.57	0.05	0.1	0.02	0.005	0.12	2.3	1.3	11.30	107	0.64	0.01	0.7	1.9
L837775		0.23	0.85	0.09	0.2	<0.01	<0.005	0.21	3.3	2.8	11.15	73	3.12	0.02	1.3	4.4
G0557631		0.71	0.57	0.06	0.1	0.03	0.009	0.03	6.6	11.8	0.07	227	0.32	<0.01	0.3	9.3
G0557632		0.54	0.47	<0.05	0.1	0.03	<0.005	0.03	5.7	3.2	4.64	273	0.17	<0.01	0.4	11.2
K242180		0.05	0.17	0.10	<0.1	0.01	<0.005	0.01	1.5	2.8	12.70	169	0.07	0.01	0.2	1.7
K242181		1.87	3.16	0.07	1.4	0.01	0.008	0.19	12.4	25.0	0.15	759	0.29	0.02	1.9	5.5
K242182		8.65	1.02	0.15	0.2	4.0	0.037	0.16	5.1	3.6	8.79	1990	0.24	0.01	0.7	22.7
K242183		2.03	0.87	0.06	0.1	1.74	0.012	0.12	4.4	4.0	11.05	1880	0.13	0.02	0.6	5.6
K242184		2.07	2.31	0.05	0.4	0.03	0.010	0.35	6.7	22.5	0.75	2000	0.13	0.12	2.0	9.8
K242185		0.84	4.96	0.06	0.8	2.39	0.026	0.23	9.2	19.1	0.05	56	1.61	0.01	5.5	15.3
K242186		0.71	0.82	<0.05	0.4	0.02	<0.005	0.07	5.5	10.6	0.24	413	0.20	0.01	0.8	2.3
K242187		1.48	1.80	0.07	0.4	0.75	0.030	0.32	9.8	8.8	5.15	4650	0.15	0.01	1.5	8.1
K242188		1.01	2.31	0.06	0.7	0.01	0.006	0.28	10.8	9.4	0.16	2620	1.99	0.08	2.7	4.7
K242189		2.48	8.55	0.10	2.4	0.03	0.038	1.18	20.6	29.9	1.74	658	0.20	0.15	6.8	27.5
K242190		2.76	30.2	0.17	4.0	0.07	0.080	4.56	24.8	43.3	0.84	40	0.90	0.06	14.0	6.2
K242191		46.7	2.63	1.19	0.7	16	0.021	0.31	16.3	1.8	1.43	216	173.5	0.01	2.3	158.5
K242192		0.17	0.39	<0.05	0.1	0.04	<0.005	0.06	5.5	1.3	12.00	212	0.56	0.02	0.5	1.5
K242193		0.67	1.76	0.06	0.4	0.07	0.006	0.20	6.8	3.4	10.70	230	0.61	0.02	3.9	7.4
K242194		2.46	0.48	0.06	0.1	0.17	0.017	0.04	4.9	1.2	8.81	281	3.98	0.01	0.9	7.8
K242195		3.48	31.4	0.16	5.4	0.47	0.067	5.03	26.8	82.4	1.86	17	8.81	0.03	55.5	18.7

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Project: ATAC- Regional- Areas C,G

**CERTIFICATE OF ANALYSIS WH12138691**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L837756		260	15.2	4.5	<0.002	0.01	2.02	0.7	1	0.8	42.0	0.05	<0.05	0.6	0.023	0.09
L837757		450	141.5	2.0	0.004	<0.01	15.65	0.3	1	14.0	53.3	<0.05	<0.05	0.2	0.010	1.07
L837758		190	36.7	2.0	<0.002	<0.01	4.06	0.3	1	5.3	55.1	<0.05	<0.05	0.3	0.010	0.23
L837759		360	50.3	0.3	<0.002	<0.01	54.7	<0.1	1	6.6	31.0	<0.05	<0.05	<0.2	<0.005	0.57
L837760		420	133.0	0.3	<0.002	<0.01	51.4	<0.1	1	2.1	21.7	<0.05	<0.05	<0.2	<0.005	0.79
L837761		80	8.2	7.3	<0.002	0.01	0.62	1.6	1	0.6	12.1	0.28	<0.05	7.4	0.075	<0.02
L837762		60	11.7	12.0	<0.002	1.01	0.58	1.8	1	0.3	111.5	0.10	<0.05	1.7	0.037	0.33
L837763		300	2.3	4.8	<0.002	0.05	0.22	0.7	1	<0.2	1215	<0.05	<0.05	0.8	0.016	<0.02
L837764		100	2.0	14.5	<0.002	0.11	0.17	1.5	1	0.2	646	0.09	<0.05	1.3	0.034	<0.02
L837765		480	12.0	136.5	<0.002	<0.01	0.61	9.1	1	2.2	59.5	0.97	<0.05	14.7	0.321	0.69
L837766		160	18.8	10.7	<0.002	0.01	0.28	1.7	1	0.3	9.0	0.12	<0.05	2.3	0.050	0.06
L837767		110	38.8	10.6	<0.002	<0.01	0.37	2.1	1	0.3	10.1	0.13	<0.05	2.2	0.050	0.05
L837768		70	20.3	9.0	<0.002	<0.01	0.39	1.5	1	0.2	35.0	0.12	<0.05	1.7	0.045	0.04
L837769		60	8.3	15.2	<0.002	<0.01	0.21	2.9	1	0.3	14.2	0.08	<0.05	1.6	0.056	0.13
L837770		710	47.8	2.7	<0.002	0.08	153.0	0.4	1	0.4	355	<0.05	<0.05	0.9	0.014	5.31
L837771		1660	6.7	49.2	<0.002	0.17	2.58	4.6	1	0.6	148.0	1.88	<0.05	5.8	0.472	1.00
L837772		110	74.4	5.6	<0.002	0.08	15.00	0.5	3	0.5	62.4	0.13	0.06	0.5	0.035	2.45
L837773		60	1.5	16.9	<0.002	0.05	0.12	2.2	1	0.2	129.0	0.44	<0.05	1.5	0.120	0.30
L837774		10	0.6	3.3	0.005	0.04	0.21	0.4	1	<0.2	152.5	<0.05	<0.05	0.4	0.015	0.07
L837775		30	0.7	5.4	<0.002	0.04	0.14	0.9	1	<0.2	207	0.07	<0.05	0.5	0.032	0.42
G0557631		120	1.3	1.7	<0.002	<0.01	0.25	0.9	1	0.2	10.6	<0.05	<0.05	0.6	0.012	0.03
G0557632		210	1.2	1.6	<0.002	<0.01	0.11	1.4	1	<0.2	53.2	<0.05	<0.05	0.4	0.008	<0.02
K242180		660	1.3	0.2	<0.002	0.01	0.14	0.4	1	<0.2	77.2	<0.05	<0.05	<0.2	<0.005	0.02
K242181		130	17.9	9.9	<0.002	0.02	0.21	1.8	1	0.4	14.5	0.19	<0.05	6.8	0.067	0.06
K242182		40	59.6	4.8	<0.002	8.41	2.22	1.2	1	0.4	84.1	<0.05	<0.05	0.9	0.017	1.94
K242183		50	11.4	4.0	<0.002	0.58	0.42	1.1	1	<0.2	91.9	<0.05	<0.05	0.8	0.014	0.09
K242184		130	3.3	19.5	<0.002	0.14	0.21	2.1	1	0.3	539	0.13	<0.05	1.8	0.057	0.10
K242185		130	9.3	12.8	0.002	0.05	2.27	2.1	2	0.6	73.5	0.36	0.05	2.5	0.116	0.32
K242186		50	1.3	3.4	<0.002	0.01	0.18	0.5	1	0.2	14.6	<0.05	<0.05	1.1	0.026	0.02
K242187		140	1.9	10.7	<0.002	0.02	0.18	1.1	1	0.2	58.3	0.14	<0.05	2.3	0.051	0.05
K242188		160	33.8	14.9	<0.002	0.02	0.28	1.5	1	0.3	128.5	0.12	<0.05	2.9	0.053	0.13
K242189		280	16.7	54.6	<0.002	0.01	0.58	7.0	1	1.1	36.2	0.53	<0.05	6.8	0.240	0.26
K242190		250	72.0	159.5	0.003	0.01	1.11	24.0	2	3.2	91.9	1.05	<0.05	10.6	0.652	1.07
K242191		2120	344	9.2	0.002	0.07	138.5	0.6	4	1.4	572	0.10	0.17	2.0	0.048	3.46
K242192		220	1.7	2.1	<0.002	0.01	0.54	0.4	1	<0.2	178.5	<0.05	<0.05	0.3	0.010	0.05
K242193		190	4.3	6.3	<0.002	0.01	2.88	1.7	1	0.2	254	0.22	<0.05	0.9	0.064	0.40
K242194		140	8.5	1.5	<0.002	0.01	2.33	2.5	1	0.2	195.0	<0.05	<0.05	0.2	0.011	0.54
K242195		150	9.8	138.0	0.004	0.20	1.11	22.6	1	2.1	38.4	3.12	0.06	10.4	1.170	5.29



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 Account: RCM

Project: ATAC- Regional- Areas C,G

**CERTIFICATE OF ANALYSIS WH12138691**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L837756		0.7	10	0.2	1.7	53	4.8
L837757		0.7	31	0.9	2.8	753	3.3
L837758		0.5	11	0.3	1.6	207	2.3
L837759		1.2	14	2.5	2.1	787	<0.5
L837760		1.6	21	4.4	2.2	1220	0.7
L837761		1.1	11	0.4	6.6	24	50.6
L837762		0.8	14	0.2	12.5	21	10.2
L837763		5.8	9	0.1	4.3	8	8.7
L837764		0.3	11	0.2	2.4	17	9.8
L837765		1.9	51	1.7	23.1	54	95.7
L837766		0.6	9	0.2	17.8	34	16.8
L837767		0.4	7	0.2	11.8	356	15.0
L837768		0.4	6	0.2	7.9	143	13.9
L837769		0.7	23	0.2	3.3	28	11.8
L837770		3.6	61	0.4	6.0	676	12.4
L837771		3.6	50	3.3	13.1	19	95.9
L837772		7.2	9	0.2	6.3	23	11.1
L837773		1.2	13	0.2	4.6	5	29.6
L837774		1.1	8	0.1	2.3	4	4.4
L837775		2.3	5	0.1	3.2	3	6.4
G0557631		0.6	8	0.1	7.7	59	4.9
G0557632		0.4	6	0.1	9.6	60	3.8
K242180		2.1	8	<0.1	1.7	6	0.8
K242181		1.3	9	0.3	5.5	30	45.4
K242182		0.5	9	0.1	12.1	1380	5.8
K242183		1.0	8	0.1	6.1	455	4.8
K242184		0.5	15	0.2	3.2	31	16.0
K242185		1.6	106	0.4	3.9	72	29.1
K242186		0.2	5	0.1	2.9	8	12.3
K242187		0.3	19	0.2	11.8	9	12.1
K242188		1.2	9	0.2	6.8	34	26.8
K242189		1.7	47	0.7	18.1	57	82.2
K242190		2.7	213	1.6	18.1	30	143.0
K242191		11.5	64	0.8	7.4	188	23.1
K242192		1.1	4	<0.1	5.4	3	3.0
K242193		1.6	12	0.2	6.2	4	17.2
K242194		1.2	12	0.2	10.3	28	3.7
K242195		7.2	116	1.5	8.7	28	233





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**CERTIFICATE OF ANALYSIS WH12138691**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12138692**

Project: ATAC- Regional- Kathy- Areas I,J  
 P.O. No.: Soil 5  
 This report is for 238 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020381		0.40	0.008	0.52	1.48	29.0	<0.2	<10	550	0.41	0.70	0.37	4.92	24.9	13.8	54
DD020382		0.27	0.002	0.28	2.02	23.8	<0.2	<10	230	0.58	0.35	0.63	9.05	24.6	27.9	62
DD020383		0.28	0.006	0.90	1.51	25.0	<0.2	<10	90	0.34	0.44	0.05	1.46	20.4	8.1	44
DD020561		0.30	0.005	0.34	2.29	27.3	<0.2	<10	300	0.95	0.72	0.25	9.51	34.4	15.4	37
DD020562		0.27	0.004	0.50	1.37	20.0	<0.2	<10	550	0.67	0.48	0.58	14.65	27.4	12.8	26
DD020563		0.26	0.004	0.45	1.35	25.7	<0.2	<10	730	0.64	0.75	0.60	45.2	24.2	18.1	25
DD020564		0.15	0.006	0.48	1.20	35.3	<0.2	<10	660	0.57	0.91	0.71	32.1	23.0	15.3	22
DD020565		0.31	0.007	0.91	1.79	33.6	<0.2	<10	590	2.08	1.70	0.51	7.84	32.9	13.0	32
DD020566		0.22	0.011	1.81	0.80	49	<0.2	<10	410	2.27	4.86	13.00	31.7	13.25	12.7	11
DD020567		0.34	0.006	1.44	1.63	51.4	<0.2	<10	870	2.20	3.59	4.36	12.50	25.1	17.2	26
DD020568		0.42	0.034	0.89	0.94	105	<0.2	<10	570	2.40	4.86	10.70	10.45	21.6	19.8	15
DD020569		0.23	0.005	2.14	1.35	39.9	<0.2	<10	1170	0.54	0.93	0.55	1.26	27.7	6.1	32
DD020570		0.17	0.003	0.79	1.30	19.1	<0.2	<10	660	0.70	0.57	0.79	0.91	21.1	7.4	25
DD020581		0.20	0.003	0.49	1.11	22.6	<0.2	<10	1180	0.62	1.12	0.65	1.65	22.9	6.7	23
DD020582		0.37	0.014	1.07	1.62	48.8	<0.2	<10	1140	0.71	2.18	1.60	3.64	25.6	10.1	33
DD020583		0.29	0.007	0.93	1.44	31.9	<0.2	<10	760	0.60	4.45	1.73	7.39	19.25	7.3	28
DD020584		0.34	0.005	0.70	1.37	26.0	<0.2	<10	760	0.54	4.94	1.28	8.82	18.10	8.6	29
DD020585		0.22	0.014	0.82	1.19	49.5	<0.2	<10	450	0.49	8.84	7.96	8.08	18.40	7.1	31
DD020586		0.44	0.075	0.48	0.97	51	<0.2	<10	310	0.46	6.06	10.75	4.85	16.05	8.4	19
DD020587		0.28	0.033	0.39	1.40	35.9	<0.2	<10	810	0.58	7.12	3.80	6.71	18.70	12.1	29
DD020588		0.41	0.005	0.50	1.74	22.8	<0.2	<10	330	0.64	0.62	0.93	1.78	25.6	14.8	49
DD020589		0.35	0.006	0.54	1.57	20.1	<0.2	<10	450	0.47	0.59	1.06	13.40	20.1	16.5	48
DD020590		0.25	0.004	0.50	1.68	18.4	<0.2	<10	400	0.44	0.54	1.04	6.20	18.55	17.6	57
DD020601		0.18	0.003	1.15	3.23	8.8	<0.2	<10	380	1.66	0.23	0.78	1.39	11.75	16.9	72
DD020602		0.26	0.003	0.12	4.14	31.4	<0.2	<10	520	1.27	0.45	0.72	0.22	22.0	58.2	249
DD020603		0.21	0.003	0.18	2.25	4.5	<0.2	<10	130	1.04	0.41	0.54	0.51	66.2	31.1	40
DD020604		0.39	0.006	0.54	2.40	53.7	<0.2	<10	200	0.56	1.60	1.36	0.97	27.2	32.8	116
DD020605		0.17	0.004	0.43	2.17	19.7	<0.2	<10	360	0.74	0.58	1.33	1.97	30.3	37.3	66
DD020606		0.13	0.004	0.70	1.63	19.1	<0.2	<10	400	0.45	0.60	1.97	9.68	15.90	23.2	51
DD020607		0.30	0.004	0.64	1.67	20.8	<0.2	<10	410	0.56	0.48	0.74	23.9	20.5	13.7	54
DD020608		0.14	0.006	0.66	1.82	23.7	<0.2	<10	400	0.68	0.72	0.87	15.40	24.9	18.2	49
DD020609		0.32	0.006	0.50	1.73	20.4	<0.2	<10	480	0.81	1.04	0.62	2.83	26.4	13.0	32
DD020610		0.36	0.004	0.28	2.00	20.7	<0.2	<10	460	0.86	0.60	0.18	2.91	25.4	23.3	40
DD020611		0.15	0.004	0.48	1.37	18.3	<0.2	<10	640	0.51	3.68	0.88	3.68	20.6	12.0	28
DD020612		0.17	0.010	0.51	0.71	10.8	<0.2	<10	340	0.19	0.63	0.39	2.08	18.60	2.9	15
DD020613		0.17	0.004	0.50	1.15	12.9	<0.2	<10	580	0.42	0.58	1.64	2.94	16.90	9.6	22
DD020614		0.14	0.003	0.37	0.98	8.2	<0.2	<10	230	0.27	1.18	0.30	1.51	15.05	3.3	17
DD020615		0.29	0.002	0.14	0.72	20.4	<0.2	<10	70	0.12	0.83	0.03	0.18	20.5	2.9	14
DD020616		0.31	0.003	0.22	1.50	15.5	<0.2	<10	130	0.36	0.76	0.06	0.65	20.3	5.6	22
DD020617		0.09	0.012	1.11	0.84	12.6	<0.2	<10	1000	0.37	0.97	1.21	2.29	21.0	3.6	24





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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020381		3.31	66.4	2.87	5.05	0.06	0.03	0.13	0.051	0.09	14.1	16.5	0.88	374	13.05	0.01
DD020382		10.05	102.0	3.52	5.86	0.06	<0.02	0.08	0.043	0.05	13.6	25.8	0.84	693	13.75	0.02
DD020383		2.51	30.6	3.51	7.97	0.05	0.02	0.06	0.040	0.04	10.5	11.7	0.51	232	9.05	0.01
DD020561		2.11	37.2	3.59	4.52	0.06	0.08	0.06	0.063	0.09	14.5	21.3	0.63	685	3.66	0.01
DD020562		1.49	39.7	2.90	3.72	<0.05	0.06	0.08	0.035	0.09	15.4	17.3	0.47	953	3.20	0.02
DD020563		1.53	83.5	3.16	3.47	0.06	0.06	0.10	0.048	0.07	13.2	14.7	0.45	1520	4.11	0.01
DD020564		1.51	83.3	3.19	2.98	0.05	0.05	0.17	0.059	0.07	12.2	13.4	0.41	930	4.68	0.01
DD020565		1.88	97.8	3.16	4.49	0.05	0.08	0.08	0.100	0.08	17.8	20.3	0.60	342	4.91	0.01
DD020566		1.94	52.1	4.71	1.91	<0.05	0.05	0.03	0.083	0.05	7.8	8.9	7.91	905	6.98	0.02
DD020567		2.14	125.0	4.36	3.68	0.05	0.06	0.08	0.124	0.08	13.2	17.2	2.66	1100	7.68	0.02
DD020568		2.18	55.6	3.20	1.99	0.09	0.07	0.05	0.185	0.06	13.3	11.6	6.96	1720	7.79	0.03
DD020569		2.10	51.8	2.31	4.30	0.09	0.05	0.14	0.128	0.09	17.1	14.2	0.37	245	8.22	0.03
DD020570		1.67	38.3	2.25	3.97	0.08	0.06	0.07	0.054	0.06	11.8	15.4	0.44	269	3.18	0.02
DD020581		2.54	42.6	2.48	3.77	0.09	0.02	0.05	0.057	0.04	11.0	10.2	0.21	870	5.51	0.03
DD020582		1.89	100.5	3.32	3.69	0.06	0.10	0.18	0.095	0.11	14.5	11.0	1.10	405	11.25	0.02
DD020583		3.45	50.6	2.67	3.87	0.05	0.06	0.14	0.137	0.07	11.5	12.3	0.70	362	4.73	0.02
DD020584		6.26	42.3	2.77	3.42	0.05	0.04	0.12	0.198	0.06	10.7	15.3	0.57	435	4.60	0.01
DD020585		6.44	48.4	2.64	3.42	0.05	0.04	0.07	0.105	0.05	15.0	16.6	4.98	927	3.69	0.02
DD020586		4.29	63.2	2.32	2.86	<0.05	0.04	0.06	0.076	0.04	9.9	15.8	6.68	932	4.27	0.02
DD020587		4.73	45.7	2.77	3.94	<0.05	0.04	0.08	0.065	0.05	10.6	19.8	2.02	863	3.55	0.02
DD020588		2.66	47.3	3.63	5.43	0.06	0.06	0.08	0.044	0.09	13.6	18.9	1.11	602	4.64	0.03
DD020589		3.80	71.4	3.47	4.38	0.06	0.03	0.11	0.045	0.07	11.3	19.3	0.77	416	6.42	0.02
DD020590		3.35	47.5	3.28	5.18	0.05	0.04	0.11	0.038	0.08	9.8	18.3	0.96	499	6.38	0.02
DD020601		2.49	61.2	3.20	9.39	0.05	0.05	0.09	0.037	0.08	5.6	26.1	1.07	373	4.04	0.06
DD020602		18.20	97.8	6.10	12.25	0.09	0.02	0.02	0.061	0.54	10.5	58.9	2.63	727	2.64	0.09
DD020603		5.81	18.4	6.63	9.82	0.11	<0.02	0.03	0.079	0.14	28.7	37.1	0.69	2120	2.32	0.03
DD020604		9.74	38.0	4.94	7.38	0.07	0.05	0.08	0.044	0.14	12.9	26.0	2.05	860	4.17	0.05
DD020605		5.18	54.4	4.25	6.42	0.08	0.02	0.07	0.038	0.11	16.8	37.3	0.95	1070	3.25	0.04
DD020606		6.15	84.4	3.14	4.82	0.08	0.03	0.12	0.034	0.06	8.5	18.5	0.93	759	8.66	0.02
DD020607		3.53	57.8	3.18	5.16	0.06	0.02	0.13	0.039	0.06	11.6	19.0	0.83	612	7.18	0.01
DD020608		5.92	117.5	3.14	5.12	0.06	0.02	0.11	0.059	0.08	13.9	25.1	0.78	298	7.47	0.01
DD020609		2.17	45.6	3.32	4.81	0.06	0.05	0.08	0.053	0.06	14.1	21.4	0.63	391	5.50	0.01
DD020610		2.45	161.5	4.43	5.03	0.05	0.04	0.08	0.059	0.08	13.8	22.8	0.65	745	5.89	0.01
DD020611		1.36	32.9	2.77	4.19	<0.05	0.03	0.08	0.037	0.06	10.2	13.7	0.52	661	5.18	0.01
DD020612		1.56	18.5	1.26	4.32	<0.05	<0.02	0.07	0.024	0.04	9.3	3.7	0.13	86	7.29	0.01
DD020613		1.25	25.0	2.25	3.57	<0.05	0.03	0.09	0.032	0.03	7.1	10.3	0.35	749	5.72	0.01
DD020614		1.62	10.7	1.52	5.19	<0.05	<0.02	0.05	0.026	0.03	7.3	6.5	0.14	148	2.58	0.01
DD020615		1.76	14.8	2.68	6.60	<0.05	<0.02	0.01	0.022	0.03	10.5	3.1	0.10	135	5.04	<0.01
DD020616		1.68	18.4	2.61	4.87	<0.05	0.03	0.02	0.040	0.04	9.7	12.5	0.26	152	3.12	<0.01
DD020617		2.50	63.8	1.26	2.35	0.08	<0.02	0.08	0.041	0.06	11.2	5.3	0.28	109	4.78	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020381		0.88	70.9	900	38.9	12.6	0.003	0.04	6.53	2.8	3.7	2.6	42.4	<0.01	0.07	2.0
DD020382		0.78	202	960	18.5	14.6	0.008	0.05	3.04	2.4	5.3	0.9	22.7	<0.01	0.05	0.6
DD020383		2.02	50.9	570	42.0	6.9	<0.001	0.02	4.35	1.7	2.1	1.5	12.0	0.01	0.08	0.7
DD020561		0.81	76.3	1110	42.9	15.1	0.001	0.01	2.11	3.7	1.3	2.5	19.7	<0.01	0.06	4.7
DD020562		0.54	52.2	1080	49.4	12.9	0.004	0.02	1.91	2.8	1.6	0.9	28.4	<0.01	0.04	3.0
DD020563		0.47	84.4	930	51.7	12.2	0.006	0.02	2.29	2.5	2.4	1.4	26.5	<0.01	0.06	2.3
DD020564		0.48	64.7	970	63.7	12.2	0.011	0.05	2.65	2.4	6.3	2.1	30.4	<0.01	0.07	2.4
DD020565		0.75	79.4	1060	60.5	15.2	0.001	0.01	2.74	3.5	1.7	2.4	31.4	<0.01	0.05	4.6
DD020566		0.30	173.5	580	52.9	10.6	0.003	<0.01	5.47	1.5	1.8	5.8	85.1	<0.01	0.02	1.3
DD020567		0.51	134.0	1140	62.2	16.5	0.001	0.03	4.36	2.5	2.0	3.4	47.3	<0.01	0.08	1.9
DD020568		0.37	118.5	590	53.4	11.0	0.001	0.03	3.79	2.5	1.9	4.7	93.0	0.01	0.05	2.9
DD020569		0.52	33.3	1200	130.5	13.4	<0.001	0.07	5.51	3.0	5.6	6.0	49.5	<0.01	0.09	2.5
DD020570		0.67	39.0	950	39.0	12.4	<0.001	0.05	2.33	3.0	2.2	1.9	30.5	<0.01	0.06	2.2
DD020581		0.37	41.1	870	29.1	9.9	0.001	0.06	6.58	1.2	3.3	2.0	35.5	<0.01	0.09	0.3
DD020582		0.76	83.1	990	72.7	13.2	0.001	0.08	15.20	3.6	5.6	3.7	55.8	<0.01	0.11	3.3
DD020583		0.69	53.7	1070	70.0	20.5	<0.001	0.10	9.89	2.4	4.7	6.3	46.2	<0.01	0.10	1.0
DD020584		0.56	88.0	1030	33.5	19.8	0.009	0.10	3.58	2.0	4.6	7.5	37.7	<0.01	0.06	0.9
DD020585		0.59	99.0	1500	26.5	16.6	0.006	0.12	3.49	1.6	4.1	30.1	73.1	<0.01	0.06	0.7
DD020586		0.46	72.0	840	20.3	14.4	0.004	0.19	3.57	2.0	2.1	16.2	85.2	<0.01	0.05	1.1
DD020587		0.64	96.4	1010	16.4	16.1	0.006	0.09	1.57	2.1	2.7	6.8	51.4	<0.01	0.06	0.9
DD020588		1.15	64.0	790	33.8	16.9	0.001	0.04	2.76	4.7	2.2	1.0	33.0	<0.01	0.06	3.3
DD020589		0.74	164.5	970	26.4	20.2	0.011	0.09	3.90	2.7	4.4	1.5	35.9	<0.01	0.05	1.2
DD020590		0.93	91.6	820	25.6	16.0	0.007	0.07	3.43	2.9	5.3	1.1	34.4	<0.01	0.08	1.3
DD020601		0.82	105.5	1090	10.6	18.4	0.002	0.10	1.67	5.2	4.9	0.4	51.7	0.01	0.05	3.5
DD020602		4.27	342	750	6.9	37.7	<0.001	0.06	1.62	9.2	1.2	1.0	63.0	0.01	0.04	5.3
DD020603		4.56	45.5	1350	9.0	35.4	<0.001	0.08	1.17	4.8	0.8	0.9	38.0	0.01	0.05	3.6
DD020604		2.02	108.5	1370	19.8	19.6	0.001	0.07	2.36	6.2	1.6	1.2	56.4	<0.01	0.20	3.0
DD020605		1.75	173.5	1150	18.9	20.0	0.001	0.12	1.69	4.6	1.7	0.6	52.2	<0.01	0.06	1.9
DD020606		1.07	157.5	1140	28.8	14.4	0.017	0.15	3.73	2.7	17.0	0.7	50.8	<0.01	0.06	0.7
DD020607		0.77	147.0	1020	24.4	15.5	0.005	0.07	3.40	2.8	5.4	1.0	36.2	<0.01	0.08	0.9
DD020608		0.75	209	1070	33.0	18.2	0.011	0.10	4.33	2.9	5.3	1.9	34.2	<0.01	0.09	0.9
DD020609		0.76	72.9	930	20.0	15.1	0.001	0.04	2.38	4.3	2.0	2.6	29.2	<0.01	0.06	2.5
DD020610		0.71	151.5	860	26.0	12.6	0.001	0.04	2.25	4.3	2.5	1.5	16.3	<0.01	0.06	2.0
DD020611		0.71	54.5	800	45.0	10.8	0.002	0.05	2.00	2.9	3.3	1.1	28.1	<0.01	0.05	1.3
DD020612		0.57	13.8	630	13.4	7.9	0.002	0.05	1.43	0.6	3.6	1.3	19.2	<0.01	0.07	<0.2
DD020613		0.55	24.1	1560	16.2	7.4	0.006	0.11	1.86	1.5	4.7	1.0	33.4	<0.01	0.05	0.6
DD020614		0.34	10.7	720	15.9	7.3	<0.001	0.05	0.79	0.3	0.7	1.3	11.7	<0.01	0.04	<0.2
DD020615		1.44	11.1	370	14.6	7.5	<0.001	0.02	1.62	1.2	2.4	1.4	9.3	<0.01	0.05	1.7
DD020616		1.12	21.8	370	25.4	11.3	<0.001	0.02	1.58	2.1	1.8	4.7	11.1	0.01	0.05	2.9
DD020617		0.44	51.6	1780	14.3	12.1	0.006	0.18	1.96	0.3	13.2	1.1	48.8	<0.01	0.03	<0.2



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020381		0.058	0.65	1.74	68	0.37	8.31	236	1.2
DD020382		0.050	1.17	3.76	67	0.20	12.50	1460	<0.5
DD020383		0.094	0.65	1.44	136	0.28	4.72	387	0.6
DD020561		0.034	0.47	2.04	57	0.95	8.55	497	2.6
DD020562		0.023	0.48	2.64	41	2.23	11.30	463	2.1
DD020563		0.020	1.29	3.72	50	2.42	9.73	857	2.0
DD020564		0.018	1.52	4.53	61	0.66	8.80	707	1.8
DD020565		0.027	0.73	3.40	76	2.64	18.85	739	2.8
DD020566		0.014	0.88	2.18	39	5.53	20.6	2790	1.5
DD020567		0.021	0.97	2.78	64	4.29	20.7	1650	1.9
DD020568		0.014	1.01	2.22	48	7.10	23.3	1780	2.0
DD020569		0.018	0.71	2.40	62	0.74	10.40	190	1.2
DD020570		0.022	0.36	1.84	46	0.70	8.96	221	1.7
DD020581		0.017	0.53	5.23	75	0.53	7.20	170	<0.5
DD020582		0.033	0.96	3.98	125	1.13	13.10	390	3.8
DD020583		0.024	0.54	5.19	113	1.20	12.60	412	1.8
DD020584		0.025	0.48	3.97	114	1.04	12.35	591	1.3
DD020585		0.028	0.59	5.31	136	3.01	22.0	813	1.1
DD020586		0.023	0.47	2.59	79	6.33	13.40	362	1.1
DD020587		0.028	0.58	3.96	88	3.13	12.80	563	1.0
DD020588		0.061	0.39	3.60	83	0.40	12.35	189	2.4
DD020589		0.038	1.10	3.68	60	0.27	11.20	862	1.1
DD020590		0.051	0.76	2.21	65	0.16	8.97	396	1.2
DD020601		0.044	0.24	2.76	127	0.29	6.41	314	1.9
DD020602		0.204	1.09	0.69	101	0.13	10.60	129	0.9
DD020603		0.099	0.42	0.47	87	0.21	8.98	70	<0.5
DD020604		0.102	1.04	0.83	96	0.16	9.81	199	1.8
DD020605		0.066	0.47	1.21	70	0.15	15.05	282	0.8
DD020606		0.045	1.13	2.49	70	0.34	11.15	511	1.1
DD020607		0.040	0.76	3.05	64	0.22	11.65	851	0.7
DD020608		0.040	0.94	2.68	64	0.38	15.35	1160	0.6
DD020609		0.030	0.39	2.06	71	0.43	12.60	242	1.6
DD020610		0.027	0.55	5.62	65	0.45	14.85	422	0.9
DD020611		0.026	0.24	1.38	55	0.49	8.07	159	0.9
DD020612		0.014	1.00	1.36	45	0.39	4.01	54	<0.5
DD020613		0.020	0.22	1.49	44	0.33	5.03	109	0.9
DD020614		0.010	0.26	0.64	56	0.41	2.31	62	<0.5
DD020615		0.055	0.33	0.55	87	0.46	1.85	59	0.5
DD020616		0.032	0.30	0.75	57	0.42	3.06	90	1.1
DD020617		0.007	0.93	4.21	61	0.57	21.0	139	<0.5





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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020618		0.04	0.012	0.90	1.16	18.5	<0.2	<10	810	0.39	3.59	0.74	4.34	17.20	9.1	20
DD020131		0.47	0.001	0.03	2.61	<2	<0.2	<10	60	0.20	0.54	12.95	0.61	11.80	8.0	27
DD020132		0.42	0.005	0.10	0.97	4	<0.2	<10	90	0.30	0.21	14.20	0.37	11.15	4.1	11
DD020133		0.28	0.003	0.06	0.87	2	<0.2	<10	80	0.17	0.29	17.45	0.11	7.64	2.4	8
DD020134		0.29	0.005	0.27	1.84	22.4	<0.2	<10	240	0.61	1.37	1.75	0.52	25.3	13.6	31
DD020135		0.24	0.004	0.28	1.92	15.2	<0.2	<10	200	0.71	0.73	2.26	0.48	25.8	11.4	31
DD020136		0.27	0.004	0.26	1.70	11.9	<0.2	<10	190	0.71	1.15	8.92	1.70	21.8	7.8	28
DD020137		0.43	0.001	0.08	0.95	4	<0.2	<10	70	0.28	0.26	19.00	0.08	11.45	3.4	6
DD020138		0.40	0.004	0.12	1.13	10	<0.2	<10	70	0.30	0.23	14.90	0.26	13.15	4.5	14
DD020139		0.38	0.002	0.05	0.68	5	<0.2	<10	40	0.20	0.30	18.40	0.14	8.11	2.3	7
DD020140		0.29	0.005	0.40	1.99	22.2	<0.2	<10	240	0.89	1.47	3.18	0.83	29.0	11.1	29
DD020081		0.32	0.003	0.44	1.28	15.6	<0.2	<10	290	0.61	0.37	0.71	1.97	19.40	6.9	25
DD020082		0.22	0.005	0.41	1.12	15.5	<0.2	<10	350	0.60	0.48	1.52	11.75	18.80	8.3	20
DD020083		0.16	0.007	0.62	1.28	25.1	<0.2	<10	560	0.78	1.05	1.18	31.3	24.7	14.9	22
DD020084		0.50	0.005	0.41	1.24	24.4	<0.2	<10	440	0.72	0.64	4.49	2.61	25.0	13.7	22
DD020085		0.47	0.007	0.40	1.01	22.1	<0.2	<10	350	0.91	0.99	8.67	3.46	16.85	10.9	16
DD020086		0.39	0.008	0.35	0.93	20.0	<0.2	<10	550	0.96	1.39	9.47	1.87	15.60	9.9	14
DD020087		0.15	0.005	0.34	1.32	18.0	<0.2	<10	610	0.64	0.63	1.81	2.32	16.50	9.7	22
DD020088		0.24	0.006	0.59	1.44	19.0	<0.2	<10	680	0.71	0.74	1.38	1.19	21.4	10.1	26
DD020089		0.35	0.007	1.06	1.53	26.7	<0.2	<10	640	0.78	1.03	0.94	3.40	26.5	10.5	32
DD020090		0.33	0.004	0.86	1.62	31.7	<0.2	<10	730	0.67	0.86	0.92	1.38	24.4	9.2	32
DD020091		0.15	0.010	0.26	0.69	10.8	<0.2	<10	870	0.37	0.43	4.37	1.21	8.88	4.4	12
DD020092		0.30	0.008	0.20	0.75	35	<0.2	<10	180	1.78	18.70	14.00	0.54	12.45	4.7	10
DD020093		0.17	0.002	0.12	0.84	7	<0.2	<10	70	0.43	0.40	14.75	0.47	9.48	2.9	11
DD020094		0.28	0.002	0.17	2.65	24	<0.2	<10	110	1.04	0.69	10.40	0.27	20.7	5.4	28
DD020095		0.62	0.038	0.08	0.28	23	<0.2	<10	40	0.47	2.46	17.20	0.24	10.95	2.4	4
DD020096		0.27	0.003	0.10	0.46	21	<0.2	<10	180	0.84	1.57	16.65	1.37	8.22	4.3	7
DD020097		0.34	0.003	0.24	1.58	18.9	<0.2	<10	270	0.81	0.75	2.63	0.76	27.9	11.4	27
DD020098		0.31	0.013	0.18	1.17	21	<0.2	<10	320	0.67	0.76	11.75	0.39	14.65	6.9	18
DD020099		0.24	0.003	0.10	0.82	14	<0.2	<10	130	0.34	0.51	14.90	0.81	11.00	4.3	12
DD020100		0.32	0.010	0.30	1.57	54.6	<0.2	<10	370	0.70	1.66	8.13	1.22	16.05	9.5	27
DD020171		0.50	0.005	0.31	1.76	40.8	<0.2	<10	290	0.77	0.83	4.41	1.15	22.9	11.2	28
DD020172		0.40	0.005	0.12	2.04	17.8	<0.2	<10	270	0.63	0.75	0.37	0.81	27.2	10.9	35
DD020173		0.40	0.005	0.41	1.95	19.1	<0.2	<10	240	0.81	0.83	3.50	0.85	28.3	12.2	32
DD020174		0.28	0.004	0.34	1.99	15.5	<0.2	<10	230	0.78	0.92	4.56	1.32	24.5	11.0	30
DD020175		0.40	0.009	0.41	1.50	22.0	<0.2	<10	280	0.72	0.90	2.17	1.65	28.4	12.8	29
DD020101		0.24	0.008	0.25	1.77	27.1	<0.2	<10	370	0.76	2.06	7.04	1.59	17.65	10.0	26
DD020102		0.39	0.005	0.19	0.87	14	<0.2	<10	220	0.47	0.51	13.35	0.56	13.50	5.9	14
DD020103		0.45	0.006	0.20	0.82	39	<0.2	<10	210	0.62	1.08	13.60	0.52	13.60	5.4	13
DD020104		0.23	0.009	0.40	1.31	20.5	<0.2	<10	360	0.56	1.44	5.10	1.38	18.20	9.7	25



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD020618		3.23	43.4	1.80	3.22	0.05	<0.02	0.07	0.040	0.07	8.5	8.5	0.30	1030	5.94	0.01
DD020131		2.52	5.0	1.33	6.69	0.05	0.04	<0.01	0.023	0.13	4.3	32.2	10.95	606	0.78	0.01
DD020132		2.17	6.7	0.98	2.27	<0.05	0.02	0.02	0.015	0.03	5.9	11.4	9.13	188	0.82	0.02
DD020133		1.19	2.7	0.59	1.98	<0.05	0.02	0.01	0.006	0.08	3.9	10.2	11.60	93	0.65	0.02
DD020134		4.14	29.8	3.28	5.30	0.05	0.05	0.05	0.043	0.06	14.1	23.1	2.26	653	2.99	0.01
DD020135		5.72	28.4	2.94	5.25	0.06	0.04	0.04	0.032	0.08	14.4	29.9	2.62	493	1.56	0.02
DD020136		6.27	22.4	2.00	5.12	0.05	0.04	0.06	0.044	0.08	10.9	21.0	6.87	506	1.98	0.02
DD020137		1.66	11.2	0.96	2.89	<0.05	0.02	0.01	0.007	0.28	5.6	9.0	10.90	135	0.62	0.03
DD020138		2.82	12.7	1.06	3.22	0.05	0.03	0.03	0.011	0.09	6.7	12.3	9.79	227	0.81	0.01
DD020139		1.86	5.4	0.52	1.92	<0.05	0.02	0.02	0.005	0.15	4.4	9.7	12.10	121	0.47	0.02
DD020140		5.23	27.2	2.79	6.02	0.07	0.06	0.08	0.047	0.09	16.1	24.2	3.35	422	1.92	0.02
DD020081		1.60	20.6	1.92	3.64	<0.05	0.06	0.07	0.033	0.05	11.2	17.4	0.45	126	2.53	0.02
DD020082		1.24	34.8	2.10	3.10	0.06	0.05	0.07	0.034	0.05	11.0	14.9	0.85	179	2.60	0.02
DD020083		1.85	89.0	2.44	3.34	0.05	0.07	0.10	0.054	0.07	13.9	14.7	0.80	487	3.96	0.01
DD020084		1.87	33.8	2.72	3.43	0.06	0.09	0.06	0.041	0.11	13.9	15.2	1.97	495	4.81	0.02
DD020085		2.34	21.3	2.13	2.58	<0.05	0.07	0.04	0.072	0.06	9.6	12.8	5.32	223	5.39	0.02
DD020086		2.68	20.3	2.30	2.39	<0.05	0.06	0.05	0.068	0.07	8.9	11.5	4.97	716	4.41	0.02
DD020087		2.09	24.3	2.30	3.80	<0.05	0.05	0.08	0.043	0.07	8.6	12.7	0.64	693	2.57	0.01
DD020088		1.63	36.7	2.64	4.30	<0.05	0.05	0.10	0.047	0.07	10.9	15.1	0.63	581	3.26	0.01
DD020089		1.94	72.3	2.81	4.58	0.06	0.08	0.14	0.070	0.10	15.3	17.5	0.68	489	5.47	0.02
DD020090		1.59	41.8	2.80	4.52	0.05	0.05	0.14	0.067	0.09	13.9	18.2	0.57	690	4.80	0.01
DD020091		0.85	25.5	1.18	1.95	<0.05	0.03	0.10	0.024	0.03	4.9	5.2	0.57	578	1.29	0.01
DD020092		5.02	23.5	1.42	2.50	0.07	0.03	0.05	0.079	0.11	6.5	10.7	8.96	465	1.97	0.01
DD020093		1.92	4.5	0.85	2.10	<0.05	0.02	0.03	0.013	0.05	4.9	11.8	9.83	269	0.71	0.01
DD020094		9.72	8.6	1.39	7.73	0.09	0.06	0.02	0.017	0.36	9.6	52.3	10.60	393	1.96	0.02
DD020095		3.48	3.9	0.56	0.76	<0.05	<0.02	0.01	0.021	0.07	5.5	4.5	11.25	473	0.45	0.01
DD020096		0.54	8.9	1.25	1.30	<0.05	0.02	0.04	0.020	0.03	4.5	5.6	10.20	390	6.94	0.01
DD020097		1.33	28.9	2.94	4.95	0.05	0.06	0.07	0.038	0.07	14.4	16.0	1.87	577	3.00	0.02
DD020098		1.20	14.2	1.83	3.46	<0.05	0.04	0.05	0.029	0.05	8.3	13.2	7.50	405	3.53	0.02
DD020099		1.24	7.2	1.43	2.42	<0.05	0.02	0.04	0.031	0.02	6.3	9.4	9.16	1040	2.77	0.01
DD020100		2.15	23.1	2.63	4.88	<0.05	0.03	0.08	0.089	0.06	8.9	18.4	5.39	567	4.02	0.02
DD020171		4.26	35.9	2.83	5.63	0.05	0.05	0.07	0.053	0.11	11.7	20.7	3.37	540	3.08	0.02
DD020172		2.52	20.2	3.21	7.50	<0.05	0.02	0.04	0.042	0.08	13.7	19.7	0.91	581	2.63	0.01
DD020173		3.34	35.6	3.02	6.28	0.05	0.07	0.08	0.040	0.11	14.7	21.0	3.16	546	2.20	0.02
DD020174		7.35	28.1	2.63	6.23	0.06	0.04	0.07	0.040	0.10	12.1	25.0	4.11	521	2.13	0.02
DD020175		2.22	45.6	3.19	4.75	0.07	0.06	0.09	0.042	0.10	13.9	16.6	1.53	725	3.30	0.02
DD020101		2.26	16.1	2.54	5.37	<0.05	0.03	0.09	0.070	0.06	9.5	20.1	4.65	782	3.44	0.02
DD020102		0.72	13.7	1.49	2.52	<0.05	0.03	0.06	0.033	0.04	7.7	8.8	8.17	433	1.70	0.02
DD020103		1.40	18.6	1.64	2.40	<0.05	0.03	0.05	0.050	0.04	7.9	8.5	8.38	426	3.96	0.02
DD020104		1.17	35.3	2.57	3.86	0.05	0.03	0.08	0.036	0.06	9.3	13.4	3.11	545	3.15	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD020618		0.30	40.8	2510	25.6	16.2	0.009	0.19	1.91	0.3	9.0	3.4	33.7	<0.01	0.02	<0.2
DD020131		0.87	13.1	130	5.1	15.3	<0.001	0.02	0.50	2.2	0.3	0.5	64.4	<0.01	0.01	2.1
DD020132		0.42	11.5	310	5.0	10.4	<0.001	0.03	0.59	1.5	0.5	0.2	64.0	<0.01	0.02	1.0
DD020133		0.32	6.5	160	2.4	5.3	<0.001	0.05	0.63	0.9	0.4	0.2	112.0	<0.01	0.01	1.4
DD020134		0.85	41.6	560	28.5	14.6	<0.001	0.02	1.90	4.1	1.3	0.8	25.8	<0.01	0.06	2.9
DD020135		1.05	37.1	500	17.0	30.1	<0.001	0.02	1.12	4.3	0.9	0.7	29.7	<0.01	0.05	3.1
DD020136		0.75	27.0	540	22.2	22.8	0.001	0.04	1.46	2.7	0.6	1.7	61.5	<0.01	0.04	1.4
DD020137		0.62	13.4	100	1.8	12.4	0.001	0.04	0.12	1.1	<0.2	0.3	142.0	<0.01	0.01	1.6
DD020138		0.39	14.7	250	6.8	11.3	0.001	0.01	0.47	1.8	0.2	0.5	88.2	<0.01	0.02	1.8
DD020139		0.22	7.9	100	2.9	9.2	0.001	0.03	0.21	1.1	<0.2	0.4	102.0	<0.01	<0.01	0.9
DD020140		0.89	40.0	720	28.8	23.7	0.001	0.02	1.36	4.0	0.7	2.2	35.5	<0.01	0.06	3.3
DD020081		0.61	26.4	810	35.9	10.4	0.007	0.08	0.94	2.5	2.6	0.7	25.6	<0.01	0.02	3.0
DD020082		0.54	34.3	930	35.1	8.0	0.010	0.12	1.66	2.2	2.2	1.0	29.3	<0.01	0.03	2.8
DD020083		0.66	71.7	1040	51.3	14.6	0.007	0.10	2.61	3.4	4.1	2.2	30.4	<0.01	0.05	3.2
DD020084		0.80	52.4	870	33.2	16.3	0.006	0.04	1.79	3.9	2.9	0.9	52.5	<0.01	0.04	5.1
DD020085		0.64	49.0	670	40.9	18.1	0.003	0.05	1.55	2.7	2.4	1.2	70.1	<0.01	0.03	3.2
DD020086		0.57	53.1	620	35.8	15.9	0.004	0.05	1.73	2.6	1.1	1.4	73.0	<0.01	0.03	3.5
DD020087		0.77	24.2	950	22.7	15.6	<0.001	0.11	1.27	2.1	2.0	0.9	26.7	<0.01	0.06	0.8
DD020088		0.67	30.5	1110	36.9	15.0	0.003	0.08	2.16	2.1	1.9	1.3	28.4	<0.01	0.06	0.9
DD020089		0.72	51.0	1100	73.5	15.4	0.001	0.05	3.56	3.6	2.4	2.5	35.5	<0.01	0.06	2.8
DD020090		0.59	31.3	1100	74.3	13.4	0.002	0.05	2.59	2.6	1.9	2.3	33.2	<0.01	0.06	1.7
DD020091		0.39	13.5	1110	20.4	9.1	<0.001	0.19	1.42	0.6	3.3	0.8	39.0	<0.01	0.02	0.2
DD020092		0.42	17.2	460	13.9	37.4	0.001	0.03	0.79	1.8	0.9	1.9	84.4	<0.01	0.08	1.1
DD020093		0.33	7.3	300	13.4	10.4	0.001	0.02	0.31	1.3	<0.2	0.5	64.3	<0.01	0.01	1.0
DD020094		0.73	15.4	210	7.0	64.0	0.001	0.01	0.28	3.7	<0.2	1.0	64.7	<0.01	0.02	3.4
DD020095		0.15	5.8	100	1.8	22.9	0.001	0.01	0.16	1.5	0.2	0.9	93.3	<0.01	<0.01	1.1
DD020096		0.22	32.5	340	8.0	4.9	0.005	0.03	4.26	1.1	0.8	0.5	77.3	<0.01	0.03	0.7
DD020097		0.92	35.8	440	27.6	12.5	0.001	0.03	1.53	4.0	0.7	1.0	26.0	<0.01	0.06	2.8
DD020098		0.54	34.0	520	11.6	9.0	0.005	0.03	1.61	2.3	0.5	0.7	58.2	<0.01	0.03	1.3
DD020099		0.38	15.2	410	7.1	7.2	0.007	0.03	0.59	1.2	<0.2	1.5	56.3	<0.01	0.02	0.4
DD020100		0.65	49.9	710	15.9	13.4	0.006	0.04	2.11	2.7	0.9	2.2	34.3	<0.01	0.03	1.0
DD020171		0.98	32.4	780	24.4	31.6	0.001	0.06	1.29	2.8	0.9	1.5	35.3	<0.01	0.07	1.3
DD020172		1.27	29.3	400	25.5	19.8	0.001	0.02	0.97	3.6	0.5	1.1	14.2	<0.01	0.04	3.1
DD020173		1.02	39.5	750	28.1	27.0	0.001	0.03	1.72	3.9	0.7	1.3	33.9	<0.01	0.05	2.7
DD020174		1.00	36.1	740	26.0	34.9	0.001	0.06	1.33	3.1	0.7	1.1	37.7	<0.01	0.05	1.5
DD020175		1.00	46.0	960	34.3	18.2	<0.001	0.04	2.12	3.7	0.7	1.0	30.9	<0.01	0.06	2.5
DD020101		0.65	37.4	800	15.2	14.8	0.003	0.07	1.54	2.3	0.8	3.2	38.6	<0.01	0.04	0.8
DD020102		0.47	28.2	530	10.3	9.8	0.004	0.02	0.99	1.8	0.3	0.6	68.9	<0.01	0.02	0.9
DD020103		0.47	51.8	560	16.6	9.1	0.003	0.03	3.18	1.5	0.6	0.6	78.5	0.01	0.03	0.7
DD020104		0.74	35.8	730	24.8	11.7	0.002	0.05	3.17	2.3	1.0	2.8	42.8	<0.01	0.01	1.0





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020618		<0.005	1.53	3.25	77	0.58	11.55	166	<0.5
DD020131		0.082	0.30	0.69	32	0.36	2.36	109	1.5
DD020132		0.024	0.30	1.14	19	0.42	4.09	37	0.6
DD020133		0.023	0.21	2.16	9	0.15	2.06	15	0.6
DD020134		0.046	0.34	1.65	55	2.14	11.20	144	1.6
DD020135		0.061	0.39	0.95	54	0.77	9.93	118	1.6
DD020136		0.047	0.61	1.50	46	0.86	8.37	172	1.4
DD020137		0.032	0.19	1.95	7	0.38	3.53	11	0.8
DD020138		0.036	0.43	1.02	20	0.82	4.66	43	1.1
DD020139		0.018	0.27	0.43	9	0.39	2.59	16	0.7
DD020140		0.052	0.59	1.12	50	1.94	11.00	157	1.9
DD020081		0.020	0.25	1.81	35	0.72	10.35	270	2.0
DD020082		0.020	0.48	1.49	35	0.88	9.42	341	2.0
DD020083		0.021	1.53	3.56	51	1.28	10.70	852	2.3
DD020084		0.031	0.61	1.13	37	0.99	10.90	489	4.3
DD020085		0.020	0.40	1.48	28	2.40	12.40	940	2.7
DD020086		0.022	0.64	1.25	25	3.89	9.35	642	2.3
DD020087		0.021	0.44	2.92	43	0.86	5.91	210	1.4
DD020088		0.023	0.43	2.87	49	0.71	8.36	168	1.4
DD020089		0.029	0.67	1.83	65	0.98	11.85	280	2.7
DD020090		0.021	0.65	2.15	66	0.58	9.05	227	1.6
DD020091		0.012	0.31	3.35	22	0.47	4.02	95	1.0
DD020092		0.019	0.50	1.49	19	26.7	5.06	133	1.2
DD020093		0.021	0.21	1.65	16	0.81	2.48	35	0.7
DD020094		0.079	1.18	1.77	32	1.11	5.71	44	2.1
DD020095		0.008	0.24	0.56	5	1.34	2.78	27	0.6
DD020096		0.011	0.18	1.34	15	0.60	8.63	351	0.9
DD020097		0.032	0.25	1.74	56	0.55	9.94	144	2.1
DD020098		0.026	0.34	1.05	38	0.60	8.22	175	1.2
DD020099		0.018	0.22	2.02	31	4.50	4.13	131	0.5
DD020100		0.036	0.42	2.56	69	0.92	7.58	248	1.0
DD020171		0.042	0.45	3.24	46	4.83	8.59	185	1.7
DD020172		0.041	0.30	1.06	73	0.84	5.46	159	1.0
DD020173		0.051	0.41	1.08	54	0.95	10.35	154	2.2
DD020174		0.053	0.51	2.00	47	0.77	8.96	173	1.7
DD020175		0.043	0.37	1.67	55	0.61	10.85	187	2.2
DD020101		0.031	0.43	3.61	67	1.15	7.07	266	1.0
DD020102		0.022	0.12	1.38	31	0.96	5.81	125	0.8
DD020103		0.020	0.22	2.13	29	1.39	5.47	187	0.9
DD020104		0.029	0.23	3.71	53	0.91	7.40	192	1.2



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD020105		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020106		0.36	0.003	0.11	0.40	12	<0.2	<10	190	0.22	1.11	17.45	0.41	6.49	2.5	7
DD020107		0.29	0.008	0.50	1.45	27.5	<0.2	<10	490	0.68	2.55	4.44	1.94	17.50	9.1	25
DD020108		0.14	0.012	0.56	1.36	39.2	<0.2	<10	440	0.69	4.70	4.04	4.25	19.70	9.5	31
DD020109		0.33	0.023	0.39	1.49	36.8	<0.2	<10	310	0.58	2.75	3.68	3.42	20.3	11.1	35
DD020110		0.16	0.006	0.32	1.23	22.6	<0.2	<10	360	0.62	1.38	4.00	7.33	15.05	10.0	28
DD020111		0.37	0.005	0.10	2.74	28.0	<0.2	<10	150	0.86	0.80	0.09	0.72	23.2	12.3	43
DD020112		0.18	0.005	0.32	1.52	21.5	<0.2	<10	240	0.65	0.94	1.51	3.73	20.1	13.1	33
DD020113		0.15	0.008	0.44	1.72	18.9	<0.2	<10	320	0.68	0.46	1.47	6.65	19.45	14.2	48
DD020114		0.25	0.005	0.41	1.56	18.1	<0.2	<10	330	0.49	0.35	1.08	1.22	24.7	12.3	44
DD020115		0.32	0.005	0.36	1.99	19.6	<0.2	<10	410	0.60	0.53	1.14	1.13	22.7	14.5	53
DD020116		0.14	0.002	0.23	1.81	18.4	<0.2	<10	260	0.51	0.48	1.05	0.69	20.0	13.1	51
DD020117		0.21	0.008	0.20	2.19	13.7	<0.2	<10	290	0.57	0.63	1.48	0.44	19.75	17.5	74
DD020118		0.19	0.004	0.33	1.84	18.9	<0.2	<10	270	0.62	0.77	1.90	3.45	20.3	15.9	49
DD020119		0.29	0.004	0.37	2.07	17.2	<0.2	<10	610	0.78	0.69	2.07	7.82	19.85	22.6	66
DD020120		0.22	0.004	0.48	1.73	22.1	<0.2	<10	390	0.69	0.56	1.40	2.42	26.0	16.1	51
DD020121		0.14	0.004	0.45	1.48	15.9	<0.2	<10	360	0.54	0.45	1.59	10.20	18.50	13.9	45
DD020151		0.28	0.008	0.39	1.74	25.6	<0.2	<10	360	0.85	12.45	1.83	1.41	23.6	10.1	31
DD020152		0.33	0.006	0.41	1.58	22.7	<0.2	<10	360	0.80	0.87	0.70	1.01	29.4	10.8	31
DD020153		0.49	0.008	0.46	1.83	29.3	<0.2	<10	380	0.90	1.34	0.89	1.35	31.4	14.5	34
DD020154		0.26	0.004	0.41	1.67	19.9	<0.2	<10	430	0.83	0.86	1.05	1.13	28.3	10.4	30
DD020155		0.17	0.004	0.38	1.58	25.5	<0.2	<10	510	0.87	0.97	1.06	2.18	31.9	13.9	28
DD020156		0.28	0.005	0.39	1.59	21.2	<0.2	<10	400	0.76	0.95	0.66	1.39	30.8	11.4	31
DD020157		0.36	0.004	0.42	1.75	20.2	<0.2	<10	670	0.89	0.90	1.67	2.69	25.2	11.9	34
DD020158		0.32	0.005	0.32	1.37	17.7	<0.2	<10	480	0.64	0.86	1.47	1.43	21.7	9.8	26
DD020159		0.17	0.004	0.28	1.29	14.4	<0.2	<10	530	0.55	0.87	2.41	1.04	18.25	8.1	22
DD020160		0.54	0.004	0.43	1.25	13.0	<0.2	<10	350	0.62	0.63	1.97	9.62	21.0	8.2	22
DD020161		0.32	0.002	0.29	0.96	15.9	<0.2	<10	310	0.41	0.71	9.98	7.69	12.95	6.5	18
DD020162		0.26	0.003	0.39	1.43	20.2	<0.2	<10	410	0.61	0.83	1.13	8.25	21.8	9.6	27
DD020163		0.37	0.009	0.31	1.27	45.9	<0.2	<10	250	0.57	2.20	8.31	1.26	20.6	8.7	22
DD020164		0.19	0.006	0.38	1.66	46.0	<0.2	<10	520	0.83	3.58	0.71	1.16	27.7	11.1	32
DD020165		0.23	0.005	0.46	1.06	157.5	<0.2	<10	480	0.74	10.10	4.64	1.44	19.40	8.0	19
DD020166		0.21	0.006	0.26	1.48	68.7	<0.2	<10	270	0.70	2.82	1.16	1.23	28.7	10.9	28
DD020167		0.31	0.004	0.31	1.70	33.2	<0.2	<10	330	0.94	1.91	0.98	2.14	24.0	10.4	30
DD020168		0.28	0.003	0.23	1.72	20.4	<0.2	<10	250	0.84	0.91	2.86	0.98	25.3	10.1	28
DD020169		0.21	0.004	0.25	1.98	26.1	<0.2	<10	280	1.12	1.63	1.46	1.41	28.8	12.3	33
DD020170		0.27	0.007	0.31	1.77	26.7	<0.2	<10	220	0.77	1.63	5.37	0.74	26.6	10.1	28
DD020121		0.34	0.008	0.28	2.25	30.3	<0.2	<10	330	1.04	1.02	0.30	6.02	24.6	16.8	40
DD020122		0.13	0.002	0.20	0.92	15.2	<0.2	<10	110	0.22	0.47	0.11	1.13	18.10	4.2	22
DD020123		0.13	0.008	0.39	1.34	31.0	<0.2	<10	440	0.68	3.06	6.78	9.09	17.25	11.9	27
DD020124		0.18	0.017	0.35	1.18	32.2	<0.2	<10	270	0.51	5.49	5.15	2.62	18.25	9.7	27



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020105		0.51	7.5	0.64	1.16	<0.05	0.02	0.03	0.031	0.02	3.3	4.8	10.70	192	1.88	0.01
DD020106		1.58	42.7	2.64	3.77	<0.05	0.04	0.08	0.053	0.07	9.4	13.4	2.58	453	4.37	0.02
DD020107		2.75	41.7	2.86	4.05	0.05	0.03	0.09	0.114	0.07	11.2	17.0	2.43	551	4.01	0.03
DD020108		2.59	45.0	3.12	4.54	0.05	0.04	0.08	0.043	0.06	10.4	17.8	2.43	537	4.69	0.03
DD020109		2.42	33.8	2.51	3.53	0.05	0.03	0.06	0.032	0.06	8.5	13.8	1.75	430	3.62	0.03
DD020110		2.62	54.4	4.27	5.09	<0.05	0.08	0.06	0.054	0.06	9.8	20.9	0.50	228	5.90	0.01
DD020111		2.66	37.9	3.03	4.26	0.06	0.04	0.08	0.041	0.06	10.0	19.8	0.59	486	5.63	0.02
DD020112		3.02	43.4	3.33	5.37	0.05	0.04	0.08	0.038	0.10	10.6	20.7	0.95	728	6.39	0.04
DD020113		3.15	28.9	3.03	5.83	0.07	0.04	0.08	0.036	0.08	12.5	18.3	0.79	462	5.62	0.02
DD020114		2.80	43.6	3.77	6.40	<0.05	0.04	0.08	0.035	0.12	12.5	21.5	0.98	521	5.54	0.03
DD020115		2.51	24.9	2.98	6.49	0.05	0.03	0.03	0.030	0.10	10.2	19.2	0.91	450	5.97	0.04
DD020116		10.15	29.8	3.35	7.61	0.07	0.03	0.06	0.028	0.15	10.3	24.7	1.24	421	6.55	0.06
DD020117		4.35	35.6	3.04	6.16	0.06	0.04	0.04	0.030	0.16	10.4	20.2	1.00	625	5.46	0.05
DD020118		5.61	48.7	3.26	7.22	0.05	0.05	0.08	0.038	0.13	11.0	29.9	1.09	1020	7.03	0.05
DD020119		5.00	38.6	3.42	5.74	0.06	0.06	0.08	0.042	0.12	13.4	20.1	0.94	624	7.43	0.03
DD020120		3.75	46.4	2.94	4.80	0.06	0.04	0.08	0.038	0.08	9.8	18.4	0.85	585	4.88	0.03
DD020151		3.20	30.0	2.91	4.92	0.05	0.06	0.04	0.044	0.08	12.3	19.1	1.88	703	2.85	0.02
DD020152		1.83	43.9	3.23	4.53	0.05	0.08	0.06	0.039	0.10	16.1	17.0	0.83	564	3.06	0.02
DD020153		2.16	55.0	3.76	5.21	0.06	0.11	0.07	0.051	0.14	16.9	21.0	0.94	756	3.67	0.02
DD020154		2.13	27.0	3.07	4.95	<0.05	0.06	0.05	0.039	0.08	13.5	18.8	0.77	650	2.43	0.02
DD020155		1.76	33.4	3.18	4.49	0.05	0.07	0.05	0.046	0.09	14.7	17.4	0.79	647	3.04	0.02
DD020156		1.43	30.5	3.13	4.66	0.06	0.06	0.07	0.043	0.08	16.0	20.0	0.70	531	2.98	0.01
DD020157		1.73	40.8	3.24	4.87	<0.05	0.07	0.06	0.037	0.10	13.3	18.9	0.88	1460	3.30	0.02
DD020158		1.17	26.4	2.72	3.83	0.05	0.06	0.04	0.036	0.09	11.2	16.3	0.63	841	2.32	0.02
DD020159		1.20	23.4	2.42	3.59	0.05	0.05	0.05	0.032	0.08	9.3	12.5	0.89	574	2.06	0.02
DD020160		1.48	37.4	2.01	3.29	0.05	0.05	0.06	0.033	0.06	11.4	18.6	1.21	471	2.99	0.02
DD020161		1.53	22.4	1.69	2.73	<0.05	0.03	0.04	0.028	0.06	7.4	12.2	6.08	1120	2.66	0.03
DD020162		1.77	29.7	2.85	4.11	<0.05	0.06	0.05	0.033	0.07	12.4	19.0	0.69	895	3.84	0.03
DD020163		2.94	27.0	2.27	3.59	<0.05	0.06	0.04	0.038	0.09	11.2	17.0	5.52	389	2.39	0.02
DD020164		1.61	39.4	3.50	4.60	0.06	0.08	0.05	0.044	0.11	15.5	19.8	0.84	651	3.00	0.02
DD020165		2.18	39.0	2.54	2.99	0.05	0.04	0.05	0.043	0.07	14.5	13.0	2.74	730	4.38	0.02
DD020166		1.45	28.8	3.27	4.27	0.06	0.05	0.05	0.042	0.09	14.3	19.5	1.08	582	2.89	0.02
DD020167		3.02	30.1	3.02	4.99	0.05	0.06	0.05	0.045	0.11	12.7	22.0	1.14	635	2.34	0.02
DD020168		3.47	26.5	2.76	5.45	0.06	0.06	0.04	0.036	0.09	12.3	20.7	2.74	579	1.85	0.02
DD020169		3.84	33.7	3.27	5.84	0.05	0.05	0.05	0.051	0.10	15.3	22.8	2.04	587	2.24	0.02
DD020170		3.52	33.6	2.79	5.24	0.05	0.06	0.05	0.041	0.09	13.1	19.0	4.51	257	2.40	0.02
DD020121		4.61	46.5	4.13	6.09	<0.05	0.04	0.03	0.052	0.10	12.7	26.6	0.79	475	6.14	0.02
DD020122		1.54	19.7	2.02	5.24	<0.05	<0.02	0.03	0.025	0.05	9.2	9.0	0.26	131	3.11	0.01
DD020123		5.81	35.8	2.53	3.86	0.08	0.06	0.11	0.046	0.08	9.3	17.9	4.21	960	6.51	0.02
DD020124		2.57	28.9	2.49	3.81	0.08	0.04	0.09	0.056	0.06	9.9	16.6	3.36	498	3.69	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020105		0.24	12.2	230	4.4	4.5	0.002	0.02	0.82	1.1	0.3	2.6	83.1	<0.01	0.02	0.6
DD020106		0.73	55.4	850	26.5	16.1	0.002	0.06	4.48	2.3	2.3	2.3	43.3	<0.01	0.07	1.1
DD020107		0.73	69.9	1100	51.8	31.2	0.002	0.07	13.40	2.4	2.9	7.4	41.1	<0.01	0.07	0.9
DD020108		0.77	60.7	980	21.1	17.5	0.004	0.06	8.68	2.9	2.5	2.4	33.3	<0.01	0.05	1.1
DD020109		0.83	56.0	990	14.7	13.9	0.002	0.10	4.59	2.3	3.0	1.3	39.4	<0.01	0.07	0.7
DD020110		1.73	76.8	640	20.4	9.8	0.001	0.05	2.10	3.7	2.7	1.0	8.8	0.02	0.06	4.6
DD020111		0.90	78.5	820	18.3	18.0	0.008	0.08	2.35	2.8	4.3	1.0	33.2	<0.01	0.06	1.1
DD020112		1.20	81.4	1000	23.5	18.2	0.010	0.11	2.78	3.4	3.2	0.9	38.1	<0.01	0.07	1.5
DD020113		1.40	43.5	930	17.5	15.4	0.002	0.06	2.02	3.2	2.0	0.7	37.7	<0.01	0.06	1.9
DD020114		1.70	53.6	900	21.9	16.4	0.002	0.05	2.48	4.0	2.2	0.9	34.7	<0.01	0.08	1.8
DD020115		1.74	41.6	1180	17.6	13.6	0.003	0.06	1.59	3.8	1.7	0.7	36.9	<0.01	0.05	1.8
DD020116		2.17	52.2	730	14.2	29.3	0.004	0.07	1.46	4.8	2.4	0.8	44.9	<0.01	0.02	1.6
DD020117		1.83	68.7	890	18.8	26.5	0.006	0.11	2.12	4.0	2.6	1.0	53.3	<0.01	0.06	1.6
DD020118		1.91	99.9	740	19.5	25.8	0.002	0.11	2.74	4.4	2.6	1.0	65.1	<0.01	0.08	1.5
DD020119		1.70	63.1	1100	27.0	23.3	0.005	0.08	3.03	3.8	4.1	1.2	46.4	<0.01	0.08	1.8
DD020120		1.11	94.2	1040	23.1	18.3	0.021	0.12	2.84	3.1	5.9	1.5	39.5	<0.01	0.06	1.2
DD020151		0.82	36.1	950	29.2	20.1	0.001	0.04	1.47	3.3	1.3	1.6	25.4	<0.01	0.09	1.6
DD020152		0.89	42.5	1040	27.3	15.0	<0.001	0.02	1.76	4.2	1.4	1.0	26.1	<0.01	0.05	3.0
DD020153		0.80	50.1	1080	37.6	19.2	0.001	0.04	2.13	4.5	1.5	1.9	26.8	0.01	0.06	3.0
DD020154		0.81	31.9	990	24.2	17.2	<0.001	0.05	1.23	3.2	2.0	0.9	24.9	<0.01	0.06	1.5
DD020155		0.86	38.8	920	33.4	15.5	0.001	0.05	1.73	3.4	2.2	1.1	23.7	<0.01	0.06	1.8
DD020156		0.84	35.3	1020	29.4	13.6	0.001	0.03	1.41	3.9	1.7	1.0	22.4	<0.01	0.05	2.6
DD020157		0.93	40.8	1250	30.5	15.3	0.002	0.08	2.09	3.2	1.9	1.0	30.2	<0.01	0.05	1.3
DD020158		0.78	31.0	1070	27.2	13.1	0.011	0.09	1.50	2.8	2.8	0.9	30.0	<0.01	0.04	1.6
DD020159		0.65	25.1	960	25.9	13.7	0.003	0.10	1.50	2.1	3.3	0.9	30.5	<0.01	0.04	0.8
DD020160		0.54	40.6	910	36.5	12.9	0.004	0.07	1.10	2.6	2.0	1.3	28.5	<0.01	0.06	2.5
DD020161		0.71	32.6	740	20.4	10.0	0.004	0.04	1.11	2.2	1.7	1.6	55.3	<0.01	0.04	1.7
DD020162		0.74	36.8	1010	32.3	12.5	0.005	0.07	1.49	2.9	2.1	1.1	31.0	<0.01	0.07	2.0
DD020163		0.82	32.1	680	28.6	14.2	<0.001	0.02	1.47	3.3	1.1	1.2	61.3	<0.01	0.07	2.6
DD020164		0.89	43.3	720	47.8	14.7	<0.001	0.05	2.23	3.9	1.2	1.4	22.4	<0.01	0.06	3.0
DD020165		0.78	31.8	790	43.4	13.2	<0.001	0.05	2.18	2.1	1.6	2.2	32.8	<0.01	0.09	1.1
DD020166		0.97	31.0	560	23.4	15.6	0.001	0.04	1.31	3.7	1.6	1.0	15.8	<0.01	0.08	2.3
DD020167		0.87	35.9	800	27.9	27.3	<0.001	0.05	1.47	3.3	1.7	1.3	21.3	<0.01	0.07	1.7
DD020168		0.99	33.3	880	22.6	22.3	<0.001	0.04	1.12	3.3	1.6	1.0	27.2	<0.01	0.04	2.1
DD020169		1.06	38.9	770	27.7	28.8	0.001	0.04	1.31	3.7	1.3	1.6	22.0	<0.01	0.08	2.1
DD020170		1.02	33.9	810	22.6	21.2	<0.001	0.03	1.12	3.5	0.8	1.3	38.9	<0.01	0.03	2.4
DD020121		1.23	148.5	1240	20.0	17.7	0.001	0.05	1.94	4.4	2.8	1.0	23.4	<0.01	0.07	2.9
DD020122		0.89	21.6	480	14.3	9.1	<0.001	0.03	1.02	1.4	0.9	0.9	9.6	<0.01	0.07	0.4
DD020123		0.79	96.9	890	18.1	16.3	0.015	0.17	3.22	2.7	4.3	1.5	57.6	<0.01	0.05	1.2
DD020124		0.75	46.8	830	22.0	25.5	0.002	0.06	8.84	2.7	2.0	3.3	42.6	<0.01	0.04	1.2



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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020105		0.011	0.14	1.25	16	0.30	2.59	59	0.7
DD020106		0.030	0.44	3.03	77	1.07	7.64	302	1.6
DD020107		0.035	0.42	3.41	106	1.65	10.25	692	1.3
DD020108		0.040	0.37	4.97	73	1.23	8.77	435	1.4
DD020109		0.033	0.41	6.10	51	1.12	7.25	468	1.4
DD020110		0.048	0.38	1.91	76	0.56	3.89	162	3.3
DD020111		0.032	0.55	5.39	59	0.36	7.83	240	1.6
DD020112		0.047	0.60	3.00	94	0.17	8.68	431	1.8
DD020113		0.055	0.39	3.74	74	0.21	6.50	173	1.1
DD020114		0.065	0.49	3.62	87	0.19	8.63	177	1.4
DD020115		0.069	0.36	3.04	98	0.17	5.64	181	1.4
DD020116		0.108	0.64	3.81	98	0.31	5.68	160	1.2
DD020117		0.073	0.52	2.93	83	0.17	8.97	276	1.8
DD020118		0.074	0.76	3.77	89	0.21	15.10	306	1.6
DD020119		0.055	0.69	9.25	84	0.21	9.10	313	1.9
DD020120		0.043	0.64	2.75	73	0.15	8.34	440	1.7
DD020151		0.045	0.46	1.90	55	4.32	8.22	194	1.8
DD020152		0.040	0.32	1.26	56	2.59	10.50	181	2.9
DD020153		0.031	0.39	1.73	60	3.02	10.40	204	3.3
DD020154		0.032	0.27	1.34	56	1.56	8.25	151	1.6
DD020155		0.029	0.28	1.57	53	4.05	9.27	184	2.3
DD020156		0.031	0.23	3.43	52	2.15	9.49	180	2.3
DD020157		0.031	0.28	2.64	62	2.56	9.96	201	2.0
DD020158		0.025	0.19	2.71	44	0.98	7.79	210	2.1
DD020159		0.019	0.21	5.59	40	0.89	6.56	182	1.5
DD020160		0.019	0.55	1.85	38	0.64	9.03	444	1.7
DD020161		0.026	0.36	1.02	38	1.14	6.17	253	1.2
DD020162		0.027	0.36	1.45	45	0.81	9.03	317	1.7
DD020163		0.033	0.37	0.98	39	2.33	8.48	217	2.6
DD020164		0.032	0.31	1.06	56	2.05	9.58	272	2.8
DD020165		0.021	0.40	1.22	34	7.05	8.76	268	1.7
DD020166		0.036	0.21	1.33	47	1.14	8.53	164	1.9
DD020167		0.034	0.39	1.99	51	3.57	8.30	226	2.0
DD020168		0.046	0.43	1.35	47	7.88	7.43	167	1.9
DD020169		0.048	0.43	1.76	58	9.69	10.00	191	2.0
DD020170		0.047	0.37	1.27	47	10.05	8.68	157	2.0
DD020121		0.059	0.64	2.35	86	0.64	9.68	593	1.5
DD020122		0.026	0.18	0.81	59	0.30	2.37	96	<0.5
DD020123		0.029	0.79	5.69	51	6.70	10.55	471	2.2
DD020124		0.033	0.30	2.20	62	1.65	7.92	442	1.2



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020125		0.39	0.004	0.21	1.06	15.2	<0.2	<10	220	0.46	0.53	9.75	0.91	17.35	7.7	20
DD020126		0.37	0.003	0.05	0.68	5	<0.2	<10	60	0.26	0.19	16.15	0.16	7.65	2.2	9
DD020127		0.33	0.010	0.27	1.50	17.2	<0.2	<10	270	0.65	0.41	5.89	1.14	20.8	9.4	25
DD020128		0.45	0.003	0.15	1.19	12	<0.2	<10	160	0.44	0.31	11.15	0.30	17.30	6.8	19
DD020129		0.41	0.004	0.35	1.61	19.6	<0.2	<10	270	0.62	0.45	2.37	0.71	27.3	11.3	30
DD020130		0.36	<0.001	0.14	1.01	13	<0.2	<10	210	0.82	0.24	11.95	0.67	13.90	5.4	13
DD020301		0.21	0.001	0.64	1.52	16.2	<0.2	<10	170	0.72	0.21	2.50	2.15	20.9	9.4	27
DD020302		0.38	0.003	0.45	1.30	14.5	<0.2	<10	270	0.62	0.38	2.23	6.70	22.8	12.7	24
DD020303		0.08	0.001	0.44	1.06	22.1	<0.2	<10	830	0.46	0.43	2.02	81.8	17.15	22.8	19
DD020304		0.47	0.009	0.54	1.00	57.9	<0.2	<10	490	1.44	1.85	8.78	7.15	18.75	16.4	16
DD020305		0.18	0.028	0.36	0.60	62	<0.2	<10	250	0.84	1.29	13.40	2.36	11.05	5.4	9
DD020306		0.44	0.009	0.22	0.42	37	<0.2	<10	180	1.08	0.60	16.10	2.34	10.80	5.6	7
DD020307		0.16	0.005	0.43	1.34	21.1	<0.2	<10	770	0.63	0.60	1.73	3.05	17.15	9.2	22
DD020308		0.20	0.008	1.03	1.12	25.2	<0.2	<10	1040	0.47	0.71	1.73	2.26	16.60	8.0	23
DD020309		0.17	0.005	1.17	1.39	26.5	<0.2	<10	1140	0.56	0.83	1.20	1.57	20.9	8.9	29
DD020310		0.13	0.003	0.79	1.14	17.4	<0.2	<10	860	0.56	0.43	2.01	2.52	15.50	7.1	22
DD020311		0.14	0.005	0.75	1.29	24.8	<0.2	<10	600	0.64	0.57	2.94	2.19	18.45	6.9	24
DD020312		0.26	0.003	0.91	1.56	28.4	<0.2	<10	670	0.84	0.68	2.35	2.02	22.7	7.9	30
DD020313		0.13	0.003	0.38	0.48	5.5	<0.2	<10	1270	0.23	0.39	4.31	1.29	5.40	1.7	8
DD020314		0.13	0.008	0.76	0.91	10.2	<0.2	<10	760	0.53	0.56	3.48	3.86	11.15	7.4	13
DD020315		0.18	0.008	0.70	1.55	28.4	<0.2	<10	580	0.80	2.53	1.24	3.63	23.6	9.8	28
DD020316		0.17	0.020	0.68	1.17	28.1	0.2	<10	710	0.91	5.47	3.49	9.17	20.2	8.4	21
DD020317		0.38	0.002	0.06	0.18	2	<0.2	<10	40	0.28	0.92	18.75	0.17	9.30	1.4	3
DD020318		0.45	0.003	0.46	0.14	9	<0.2	<10	40	0.23	3.89	19.15	<0.01	9.60	0.9	2
DD020319		0.36	0.006	0.72	0.51	25	<0.2	<10	190	0.54	5.99	16.20	1.77	10.55	2.9	8
DD020320		0.33	0.003	0.36	0.37	19	<0.2	<10	70	0.36	3.71	16.80	1.37	9.12	2.2	6
DD020321		0.29	0.006	0.90	0.57	40	<0.2	<10	170	0.52	3.06	15.55	2.23	10.90	3.6	9
DD020322		0.34	0.026	0.33	0.69	24	<0.2	<10	190	0.36	1.84	14.25	1.36	11.85	4.5	12
DD020323		0.21	0.013	0.36	1.19	26.3	<0.2	<10	560	0.57	0.92	6.62	4.10	19.00	9.0	23
DD020324		0.17	0.007	0.65	1.42	32.6	<0.2	<10	900	0.66	1.72	1.47	3.40	24.0	8.7	22
DD020325		0.16	0.006	0.78	1.16	27.8	<0.2	<10	650	0.50	1.15	2.07	1.65	20.2	8.4	22
DD020326		0.21	0.011	0.73	1.42	59.2	<0.2	<10	590	0.69	4.33	2.23	5.99	23.2	12.2	34
DD020327		0.29	0.016	0.38	1.32	34.9	<0.2	<10	260	0.60	2.30	5.90	1.58	22.5	11.6	28
DD020328		0.23	0.012	0.55	1.52	51.8	<0.2	<10	340	0.63	5.35	2.89	4.86	23.3	14.0	34
DD020329		0.25	0.007	0.37	1.33	17.6	<0.2	<10	290	0.60	2.19	6.58	1.97	20.7	11.4	26
DD020330		0.19	0.004	0.22	1.61	18.3	<0.2	<10	340	0.43	0.84	0.57	6.02	22.5	16.9	57
DD020331		0.18	0.002	0.18	1.12	14.5	<0.2	<10	260	0.37	0.47	0.84	9.81	16.00	12.3	37
DD020332		0.20	0.003	0.39	1.45	22.4	<0.2	<10	230	0.56	0.36	1.64	3.65	17.45	14.1	38
DD020333		0.18	0.008	0.41	1.12	10.3	<0.2	<10	150	0.42	0.19	2.27	2.51	8.19	7.9	29
DD020334		0.30	0.007	0.54	1.86	18.5	<0.2	<10	310	0.60	0.52	0.89	2.60	20.1	16.1	58





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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020125		1.39	21.5	1.81	3.13	0.06	0.04	0.05	0.032	0.06	9.0	14.5	6.21	353	3.32	0.02
DD020126		0.41	2.3	0.57	1.87	<0.05	0.02	0.01	0.011	0.01	4.0	9.5	10.60	116	1.34	0.01
DD020127		1.53	21.3	2.29	4.48	0.06	0.04	0.07	0.031	0.05	10.9	17.4	4.21	408	3.37	0.02
DD020128		1.35	11.9	1.73	3.35	0.05	0.05	0.05	0.025	0.04	9.1	16.6	7.34	275	2.52	0.02
DD020129		1.52	34.1	2.86	5.02	0.09	0.05	0.08	0.033	0.06	14.6	16.9	1.83	452	4.70	0.03
DD020130		4.43	11.0	1.36	2.82	0.05	0.03	0.06	0.015	0.06	7.5	17.0	7.60	294	2.73	0.01
DD020301		1.76	17.5	2.60	4.13	0.09	0.05	0.08	0.029	0.07	14.9	18.2	1.11	589	1.74	0.04
DD020302		1.28	26.8	2.45	3.80	0.07	0.06	0.08	0.035	0.05	13.6	16.5	1.31	621	1.94	0.03
DD020303		1.24	74.1	3.03	3.30	0.10	0.08	0.11	0.034	0.06	9.7	12.7	0.46	5020	3.31	0.02
DD020304		2.39	26.9	4.34	2.61	0.10	0.06	0.07	0.060	0.06	10.9	14.9	5.23	1710	8.97	0.02
DD020305		1.95	12.8	1.98	1.62	0.06	0.05	0.07	0.083	0.04	6.3	11.4	7.91	703	4.67	0.01
DD020306		1.87	13.1	1.84	1.17	0.05	0.03	0.03	0.085	0.04	6.4	7.1	9.86	940	9.77	0.01
DD020307		1.55	53.0	2.28	3.85	0.08	0.07	0.13	0.050	0.10	9.6	15.4	0.56	476	3.04	0.01
DD020308		1.34	50.5	2.12	3.34	0.07	0.08	0.11	0.060	0.06	9.2	11.8	0.50	493	4.65	0.01
DD020309		1.77	39.9	2.34	4.14	0.08	0.08	0.09	0.076	0.07	12.2	14.7	0.52	588	4.43	0.01
DD020310		1.20	54.2	1.86	3.07	0.07	0.06	0.09	0.043	0.06	8.8	12.3	0.46	560	2.42	0.01
DD020311		2.32	47.9	2.04	3.50	0.07	0.09	0.08	0.056	0.09	11.0	15.9	1.55	293	3.97	0.02
DD020312		2.91	55.1	2.46	4.30	0.07	0.10	0.10	0.066	0.10	13.6	19.2	1.47	310	4.39	0.02
DD020313		0.77	30.2	0.64	1.30	<0.05	0.04	0.10	0.016	0.04	3.2	3.1	0.51	77	0.93	0.01
DD020314		1.14	28.9	1.38	2.63	0.05	0.05	0.16	0.031	0.03	6.6	5.5	0.55	1070	2.24	0.01
DD020315		2.22	30.0	2.76	4.74	0.08	0.06	0.08	0.075	0.08	13.3	16.5	0.67	629	4.76	0.01
DD020316		3.09	43.2	2.34	3.76	0.08	0.05	0.12	0.130	0.05	13.2	14.5	1.69	814	2.32	0.01
DD020317		0.58	2.9	0.46	0.73	<0.05	0.02	0.04	0.011	0.01	7.1	5.4	12.05	775	8.36	0.01
DD020318		1.44	19.1	0.70	0.68	0.05	<0.02	0.03	0.050	0.02	8.2	6.0	12.40	1030	2.41	0.01
DD020319		3.05	7.8	0.78	1.76	<0.05	0.03	0.06	0.142	0.02	8.0	12.5	10.70	399	1.63	0.01
DD020320		1.71	9.9	0.70	1.30	0.05	0.03	0.06	0.088	0.01	7.0	8.5	10.90	539	1.69	0.01
DD020321		1.22	15.7	0.87	1.96	0.05	0.02	0.22	0.058	0.02	7.6	10.9	10.00	478	1.10	0.01
DD020322		1.25	15.6	1.15	2.32	<0.05	0.03	0.15	0.045	0.02	6.9	10.4	8.87	409	1.36	0.01
DD020323		1.80	35.1	2.27	3.90	0.06	0.04	0.10	0.052	0.05	10.7	13.3	4.35	396	3.15	0.02
DD020324		2.05	74.9	2.49	3.23	0.12	0.08	0.13	0.088	0.06	13.1	9.9	0.45	396	7.07	0.01
DD020325		1.42	29.9	2.28	3.36	0.09	0.06	0.14	0.062	0.05	10.8	9.3	0.44	363	2.35	0.01
DD020326		3.75	41.7	2.95	4.82	0.10	0.04	0.16	0.152	0.06	13.4	16.8	0.98	686	3.54	0.02
DD020327		2.52	36.2	2.70	4.42	0.09	0.04	0.09	0.048	0.05	12.1	17.9	4.06	577	2.72	0.02
DD020328		3.98	59.2	3.06	5.15	0.10	0.04	0.08	0.063	0.06	12.6	18.9	1.70	705	3.26	0.02
DD020329		2.34	34.2	2.30	4.04	<0.05	0.04	0.09	0.037	0.05	10.3	17.8	4.30	572	4.49	0.02
DD020330		2.62	40.5	3.05	5.43	0.06	0.05	0.11	0.049	0.08	10.9	18.8	0.96	481	5.23	0.02
DD020331		2.87	31.8	2.29	3.64	<0.05	0.02	0.09	0.040	0.05	8.0	15.2	0.61	275	4.01	0.02
DD020332		2.22	29.5	2.94	4.43	0.06	0.04	0.10	0.032	0.09	8.8	18.8	0.79	712	7.06	0.03
DD020333		2.43	19.9	1.65	3.56	<0.05	0.04	0.09	0.021	0.06	4.3	13.3	0.63	426	5.40	0.03
DD020334		3.97	37.3	3.20	6.04	0.06	0.02	0.14	0.043	0.12	11.0	17.7	0.86	566	6.16	0.03

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020125	0.05	0.78	27.5	560	14.3	10.5	0.001	0.03	1.72	2.8	1.1	0.7	56.7	<0.01	0.03	1.5
DD020126		0.22	1.9	170	2.1	2.2	0.001	0.02	0.28	1.4	0.5	0.2	56.5	<0.01	0.01	0.9
DD020127		0.76	33.0	750	18.0	12.5	0.002	0.05	1.79	2.8	1.5	0.6	43.6	<0.01	0.03	1.1
DD020128		0.74	20.9	400	16.0	8.1	0.001	0.02	1.10	2.7	0.7	0.4	48.7	<0.01	0.02	1.9
DD020129		1.00	40.8	770	17.9	11.1	0.001	0.02	1.38	4.0	0.9	0.7	29.6	<0.01	0.03	2.1
DD020130		0.52	11.2	490	7.3	16.6	0.001	0.09	0.39	1.8	0.8	0.3	47.3	<0.01	0.02	0.8
DD020301		0.92	32.4	1010	40.5	12.7	<0.001	0.04	1.40	4.0	1.0	0.5	36.9	0.01	0.03	3.0
DD020302		0.72	44.8	990	31.0	10.0	0.001	0.02	1.45	3.6	1.0	0.8	34.6	<0.01	0.03	3.2
DD020303		0.43	76.7	1300	29.4	9.9	0.010	0.17	1.97	2.2	3.7	1.0	36.9	<0.01	0.04	1.4
DD020304		0.59	94.6	670	37.7	15.2	0.021	0.14	2.44	2.7	2.8	2.4	73.1	<0.01	0.03	3.0
DD020305		0.30	36.4	600	22.5	11.2	0.009	0.11	1.55	1.7	1.8	1.3	107.0	<0.01	0.01	0.9
DD020306		0.28	57.4	310	19.7	7.3	0.001	0.01	1.73	1.6	1.1	1.3	118.0	<0.01	0.01	1.4
DD020307		0.70	40.0	970	30.6	28.0	<0.001	0.11	2.29	2.4	3.7	1.2	36.3	<0.01	0.04	1.3
DD020308		0.58	34.8	1130	46.4	10.2	<0.001	0.11	3.12	2.1	5.7	1.7	41.1	<0.01	0.06	1.1
DD020309		0.57	35.2	1240	66.3	12.7	0.001	0.09	3.24	2.6	5.6	3.1	37.5	<0.01	0.06	1.4
DD020310		0.46	33.2	1220	44.0	9.6	0.001	0.13	3.01	1.5	7.3	1.5	43.2	<0.01	0.05	0.8
DD020311		0.65	37.8	1110	49.1	15.0	0.001	0.10	3.15	2.5	2.4	1.7	44.3	<0.01	0.04	2.0
DD020312		0.72	45.6	1170	59.5	17.8	<0.001	0.07	3.40	3.2	2.7	2.0	45.9	<0.01	0.05	2.8
DD020313		0.25	12.0	1120	11.0	4.2	<0.001	0.19	2.03	0.5	3.4	0.8	46.4	<0.01	0.02	0.2
DD020314		0.47	23.7	1280	21.9	6.2	0.001	0.18	1.82	1.0	3.8	0.8	41.8	0.01	0.04	0.3
DD020315		0.71	40.9	1050	42.5	15.7	0.005	0.07	3.28	2.7	1.9	3.8	33.7	<0.01	0.05	1.3
DD020316		0.75	52.2	1320	76.6	15.8	0.001	0.14	16.70	1.6	3.4	7.6	38.6	0.01	0.04	0.6
DD020317		0.10	3.6	250	2.5	1.3	0.026	0.02	0.33	0.8	0.6	0.8	123.5	<0.01	0.01	0.4
DD020318		0.06	4.4	310	9.8	10.3	0.004	0.03	2.43	0.7	0.8	53.7	122.0	<0.01	0.01	0.3
DD020319		0.26	13.1	460	110.5	7.8	0.005	0.03	18.30	1.3	1.2	9.5	173.5	<0.01	0.02	0.6
DD020320		0.19	12.0	360	38.2	5.2	0.004	0.01	8.27	1.1	0.8	5.4	122.5	<0.01	0.01	0.5
DD020321		0.25	21.8	550	106.5	4.9	0.005	0.03	26.4	1.2	1.2	2.4	128.0	<0.01	0.02	0.4
DD020322		0.43	21.8	460	38.6	6.1	0.002	0.02	10.30	1.6	1.1	3.9	128.0	<0.01	0.01	0.7
DD020323		0.77	49.1	680	19.6	11.0	0.001	0.06	4.16	2.5	2.6	3.5	55.0	<0.01	0.03	0.8
DD020324		0.60	75.2	1030	33.6	12.8	0.006	0.12	8.16	2.0	12.2	2.9	48.4	0.01	0.07	0.8
DD020325		0.84	39.3	790	34.2	11.1	0.003	0.11	8.25	2.3	5.9	2.2	43.4	<0.01	0.06	0.9
DD020326		0.96	89.2	1130	71.9	19.6	0.006	0.10	18.45	2.5	4.0	7.7	40.9	<0.01	0.06	0.8
DD020327		0.81	48.6	690	20.2	15.5	0.001	0.04	13.20	3.1	1.3	1.8	47.0	<0.01	0.04	1.2
DD020328		0.98	73.7	960	23.6	22.0	0.002	0.08	5.27	2.9	2.7	9.9	36.4	<0.01	0.05	0.9
DD020329		0.88	49.5	570	16.2	12.7	0.002	0.04	2.05	2.7	1.7	2.0	40.9	<0.01	0.06	1.4
DD020330		1.09	85.0	660	24.0	11.4	0.004	0.05	3.75	3.3	2.6	1.6	26.0	<0.01	0.07	1.7
DD020331		0.83	94.3	500	17.8	12.1	0.006	0.06	2.11	2.0	2.8	1.2	24.7	<0.01	0.03	1.0
DD020332		0.82	58.4	920	21.3	19.4	0.006	0.08	2.22	2.7	2.4	0.8	37.4	<0.01	0.03	1.2
DD020333		0.67	40.9	690	10.6	11.1	0.017	0.16	1.84	1.6	3.6	0.6	58.9	<0.01	0.04	0.6
DD020334		1.44	59.4	1060	23.2	18.7	0.003	0.07	2.29	3.6	2.8	0.9	39.6	<0.01	0.06	1.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020125		0.027	0.32	2.33	48	0.38	6.82	151	1.4
DD020126		0.016	0.16	2.24	11	0.15	2.24	23	0.8
DD020127		0.031	0.32	4.14	45	0.33	8.14	187	1.3
DD020128		0.031	0.35	1.78	33	0.24	6.22	94	1.3
DD020129		0.044	0.27	2.86	54	0.55	10.65	140	1.4
DD020130		0.021	0.45	4.87	24	4.79	5.88	36	1.0
DD020301		0.032	0.32	0.98	38	0.89	17.65	176	1.5
DD020302		0.029	0.33	0.83	36	0.52	12.90	323	1.9
DD020303		0.015	1.07	3.28	32	0.37	8.92	820	2.3
DD020304		0.018	0.78	2.29	37	4.30	16.45	1400	2.2
DD020305		0.012	0.38	2.05	16	2.14	9.54	844	1.8
DD020306		0.009	0.34	1.36	14	2.19	12.35	1040	1.2
DD020307		0.019	0.50	2.43	42	0.68	8.84	321	2.2
DD020308		0.016	0.45	1.83	46	0.72	7.71	220	2.3
DD020309		0.016	0.54	2.43	57	0.85	9.79	225	2.2
DD020310		0.012	0.42	2.18	40	0.36	8.52	180	1.9
DD020311		0.021	0.77	2.67	45	0.79	9.90	267	3.1
DD020312		0.024	0.84	2.72	55	0.96	11.65	314	3.4
DD020313		0.008	0.21	5.44	12	0.27	3.34	68	1.4
DD020314		0.013	0.31	3.89	27	1.15	8.75	138	1.7
DD020315		0.024	0.51	2.87	75	2.04	10.05	341	1.7
DD020316		0.022	0.53	4.33	113	2.08	15.65	605	1.4
DD020317		0.005	0.13	2.57	53	10.25	3.60	43	0.5
DD020318		<0.005	0.25	2.23	42	10.45	4.73	25	0.5
DD020319		0.014	0.18	3.43	156	2.86	6.28	206	0.7
DD020320		0.010	0.16	1.59	116	5.04	5.19	159	0.8
DD020321		0.013	0.14	3.03	148	3.04	5.44	341	0.7
DD020322		0.018	0.16	1.66	107	0.72	4.24	195	0.8
DD020323		0.030	0.30	3.68	102	0.42	8.29	294	1.2
DD020324		0.018	0.64	6.30	104	0.53	13.10	383	2.4
DD020325		0.022	0.38	5.56	80	0.41	8.81	184	1.9
DD020326		0.033	0.50	7.33	127	2.06	13.75	872	1.2
DD020327		0.034	0.31	2.35	73	1.43	9.22	206	1.2
DD020328		0.038	0.47	4.56	83	2.14	10.40	410	1.2
DD020329		0.030	0.26	3.57	57	1.48	7.69	171	1.3
DD020330		0.052	0.38	2.46	69	0.62	8.76	461	1.7
DD020331		0.035	0.53	1.80	51	0.33	6.04	577	1.0
DD020332		0.034	0.38	4.14	88	0.16	7.26	395	1.7
DD020333		0.025	0.36	4.87	93	0.11	3.55	284	1.5
DD020334		0.053	0.40	7.06	96	0.21	8.61	357	1.0





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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020335		0.15	0.011	0.31	1.37	11.0	<0.2	<10	210	0.46	0.28	2.47	2.54	11.75	9.9	40
DD020336		0.16	0.012	0.24	0.93	8.2	<0.2	<10	210	0.30	0.25	2.25	1.18	9.15	6.9	29
DD020337		0.32	0.004	0.26	3.10	9.9	<0.2	<10	350	0.98	0.57	1.19	0.97	20.8	18.4	61
DD020338		0.26	0.004	0.58	2.51	10.5	<0.2	<10	240	0.72	0.36	0.35	0.67	27.2	9.0	40
DD020339		0.37	0.009	0.66	1.39	21.3	<0.2	<10	560	0.63	0.74	0.78	168.5	26.1	26.7	27
DD020340		0.17	0.006	0.98	1.41	35.1	<0.2	<10	670	0.61	0.95	0.74	5.33	24.1	8.2	25
DD020351		0.22	0.006	0.93	1.45	52.8	<0.2	<10	670	0.65	0.94	0.47	3.73	24.2	7.3	28
DD020352		0.33	0.006	0.98	1.53	14.9	<0.2	<10	830	0.67	0.97	0.57	2.97	26.0	6.5	30
DD020353		0.16	0.006	1.00	1.08	47.4	<0.2	<10	720	0.56	0.71	1.16	2.37	19.45	8.2	22
DD020354		0.21	0.004	0.74	1.13	30.6	<0.2	<10	600	0.50	0.69	0.83	1.32	20.2	7.7	24
DD020355		0.20	0.005	0.60	1.40	17.3	<0.2	<10	600	0.47	0.71	0.61	1.60	22.6	11.3	26
DD020356		0.24	0.008	0.72	1.55	41.3	<0.2	<10	650	0.70	1.04	0.62	2.66	28.7	9.5	28
DD020357		0.18	0.006	0.67	1.24	18.2	<0.2	<10	740	0.50	0.69	0.84	1.71	21.6	7.0	24
DD020358		0.23	0.011	0.97	1.50	35.7	<0.2	<10	880	0.61	0.92	0.58	1.61	29.7	9.2	28
DD020359		0.20	0.009	1.10	1.93	27.1	<0.2	<10	1580	0.98	3.68	1.31	8.66	22.9	5.0	30
DD020360		0.34	0.006	0.54	1.55	16.2	<0.2	<10	620	0.57	1.47	0.59	1.40	25.6	10.9	37
DD020361		0.50	0.005	0.66	1.69	21.0	<0.2	<10	600	0.75	0.69	0.51	4.38	24.7	10.1	27
DD020362		0.34	0.002	0.20	0.95	19.6	<0.2	<10	160	0.48	0.61	0.30	1.91	14.65	7.9	25
DD020363		0.37	0.004	0.40	2.85	22.2	<0.2	<10	230	0.98	0.83	0.08	1.50	32.2	15.3	39
DD020364		0.20	0.010	5.05	1.61	47.2	<0.2	<10	2200	0.63	0.79	0.75	1.65	27.7	8.0	33
DD020365		0.32	0.005	1.33	1.46	37.4	<0.2	<10	1030	0.69	0.74	0.13	1.42	27.4	8.5	29
DD020366		0.19	0.015	2.22	1.73	29.3	<0.2	<10	1450	0.65	0.95	0.48	1.51	24.9	8.5	34
DD020367		0.45	0.007	2.08	1.55	28.5	<0.2	<10	1050	0.73	1.50	0.66	2.60	25.5	10.6	31
DD020368		0.18	0.009	3.21	1.19	28.1	<0.2	<10	1050	0.45	2.57	0.46	1.10	21.3	6.4	25
DD020369		0.26	0.006	0.82	1.28	21.4	<0.2	<10	770	0.48	0.92	1.11	5.27	20.9	8.6	25
DD020370		0.33	0.031	1.77	1.47	62.2	<0.2	<10	1070	0.60	1.32	0.44	1.96	34.8	6.9	30
DD020371		0.31	0.007	0.69	1.63	31.8	<0.2	<10	800	0.68	1.71	0.55	2.65	25.0	13.2	27
DD020372		0.41	0.010	0.75	1.81	58.1	<0.2	<10	610	0.85	2.13	0.35	7.94	29.7	26.2	27
DD020373		0.23	0.009	0.27	2.04	16.8	<0.2	<10	370	0.50	1.45	0.15	0.58	28.6	10.5	54
DD020374		0.30	0.008	0.69	2.66	18.8	<0.2	<10	480	0.95	0.47	0.13	0.90	36.0	13.8	35
DD020375		0.39	0.006	1.39	1.69	32.9	<0.2	<10	330	0.49	0.84	0.16	2.11	30.9	12.6	36
DD020376		0.41	0.003	0.63	1.02	22.9	<0.2	<10	110	0.13	0.85	0.07	0.26	24.0	1.8	20
DD020377		0.34	0.030	1.07	1.56	45.9	<0.2	<10	290	0.37	1.17	0.07	0.50	28.5	6.0	34
DD020378		0.21	0.005	0.34	1.07	18.3	<0.2	<10	140	0.18	0.87	0.06	0.47	20.9	3.9	23
DD020379		0.32	0.004	0.32	1.73	24.1	<0.2	<10	380	0.43	0.62	0.16	0.66	25.2	12.2	45
DD020380		0.45	0.006	0.38	1.86	29.1	<0.2	<10	630	0.65	0.88	0.17	2.07	30.3	14.3	42
DD020619		0.24	0.004	0.43	1.12	16.0	<0.2	<10	340	0.50	0.47	0.98	0.93	19.20	8.1	23
DD020620		0.21	0.003	0.41	1.10	18.5	<0.2	<10	260	0.53	0.60	2.45	1.03	20.6	8.8	23
DD020621		0.47	0.005	0.46	1.20	18.7	<0.2	<10	310	0.59	0.49	0.89	1.19	19.95	8.9	28
DD020622		0.41	0.008	0.40	1.08	15.6	<0.2	<10	280	0.52	0.43	2.66	4.78	17.95	7.4	19



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020335		2.78	29.1	2.13	4.33	0.05	0.04	0.07	0.024	0.08	6.2	13.8	0.77	348	4.48	0.04
DD020336		1.88	22.2	1.64	3.35	0.05	0.03	0.07	0.021	0.06	4.7	10.0	0.53	284	3.25	0.03
DD020337		8.98	44.9	3.71	10.45	0.08	0.03	0.06	0.028	0.43	10.8	35.0	1.44	466	6.38	0.13
DD020338		1.94	19.6	3.40	6.68	<0.05	<0.02	0.06	0.031	0.04	13.4	26.3	0.77	344	1.38	0.05
DD020339		1.64	170.0	3.09	3.76	0.06	0.08	0.10	0.048	0.10	14.5	16.6	0.63	793	4.51	0.02
DD020340		1.76	50.6	3.04	3.60	0.05	0.07	0.15	0.070	0.08	12.7	14.6	0.40	635	5.04	0.01
DD020351		1.55	51.4	3.85	3.94	0.06	0.08	0.11	0.059	0.08	13.2	15.5	0.41	441	8.03	0.01
DD020352		1.67	52.4	1.61	4.13	0.06	0.08	0.10	0.059	0.08	13.8	16.2	0.45	203	2.36	0.01
DD020353		1.14	40.2	3.43	2.93	0.05	0.06	0.09	0.049	0.06	10.2	11.6	0.37	780	7.03	0.02
DD020354		1.31	36.6	2.46	3.03	0.05	0.06	0.09	0.058	0.06	10.5	11.9	0.36	592	5.48	0.02
DD020355		1.46	26.6	2.47	3.79	<0.05	0.06	0.08	0.049	0.06	11.2	14.4	0.44	2040	4.09	0.01
DD020356		1.71	35.1	3.63	4.07	0.06	0.07	0.09	0.057	0.08	13.9	15.9	0.47	449	7.80	0.01
DD020357		1.17	36.9	2.16	3.22	<0.05	0.07	0.09	0.052	0.07	11.2	12.0	0.36	687	4.03	0.02
DD020358		1.70	35.4	3.11	4.35	0.06	0.08	0.11	0.081	0.10	15.6	15.5	0.41	875	7.66	0.02
DD020359		3.14	90.6	3.00	4.57	0.05	0.13	0.16	0.094	0.11	12.2	12.8	0.39	149	6.01	0.02
DD020360		1.87	36.3	2.72	5.11	0.05	0.07	0.07	0.054	0.07	12.6	16.9	0.68	312	3.92	0.02
DD020361		2.14	42.0	2.97	4.25	0.06	0.07	0.09	0.048	0.08	13.4	19.2	0.56	491	4.27	0.02
DD020362		1.40	15.1	2.39	2.88	<0.05	0.04	0.03	0.020	0.05	7.0	14.0	0.47	362	4.22	0.01
DD020363		2.01	29.3	3.86	4.90	0.05	0.12	0.08	0.075	0.09	14.3	27.3	0.63	369	3.06	0.01
DD020364		2.58	72.8	2.99	4.44	0.08	0.07	0.97	0.102	0.10	16.8	15.3	0.40	368	17.45	0.02
DD020365		1.89	59.0	3.34	4.35	0.07	0.03	0.14	0.066	0.08	14.5	17.3	0.43	316	10.95	0.02
DD020366		2.80	57.9	3.30	4.97	0.05	0.07	0.38	0.069	0.12	13.1	14.8	0.43	396	7.71	0.02
DD020367		1.89	69.8	3.10	4.48	0.05	0.08	0.27	0.091	0.07	15.0	17.5	0.57	606	7.15	0.02
DD020368		1.37	42.8	2.41	3.27	0.05	0.06	0.60	0.091	0.07	11.5	12.8	0.42	323	10.70	0.02
DD020369		1.31	23.8	2.30	3.48	<0.05	0.06	0.17	0.061	0.06	10.5	13.0	0.42	981	5.58	0.02
DD020370		2.69	60.0	2.77	4.75	0.06	0.03	0.35	0.128	0.10	20.1	14.6	0.33	369	15.05	0.02
DD020371		2.41	142.0	2.87	3.50	0.06	0.07	0.13	0.102	0.08	13.0	16.0	0.44	388	9.19	0.01
DD020372		3.60	238	3.22	3.59	0.07	0.06	0.10	0.157	0.08	14.2	17.8	0.45	296	9.08	0.01
DD020373		2.01	36.9	3.24	5.43	0.06	0.06	0.07	0.052	0.05	12.8	18.1	0.65	347	2.57	0.01
DD020374		2.11	39.4	3.70	5.00	0.05	0.11	0.13	0.062	0.06	12.8	24.3	0.42	514	4.31	0.01
DD020375		2.19	82.6	2.98	4.93	0.06	0.05	0.27	0.069	0.07	16.2	21.1	0.49	277	9.45	0.01
DD020376		1.52	13.5	2.61	8.65	<0.05	<0.02	0.10	0.041	0.04	12.5	3.4	0.11	61	7.34	0.01
DD020377		1.86	27.4	3.68	5.62	0.05	<0.02	0.21	0.075	0.09	16.2	13.3	0.37	195	19.25	0.01
DD020378		1.57	11.7	2.67	6.54	<0.05	0.02	0.05	0.031	0.04	10.5	6.7	0.25	151	6.42	0.01
DD020379		2.95	27.3	3.31	6.13	<0.05	<0.02	0.09	0.044	0.07	12.8	18.5	0.67	341	6.57	0.01
DD020380		3.47	53.8	3.41	5.94	0.07	0.02	0.13	0.077	0.09	16.0	17.2	0.73	515	7.70	0.01
DD020619		1.04	17.8	2.39	3.23	0.05	0.04	0.07	0.028	0.07	10.7	13.9	0.51	669	2.82	0.02
DD020620		1.28	24.9	2.50	3.20	0.05	0.07	0.07	0.037	0.09	11.7	13.8	1.36	423	2.21	0.02
DD020621		2.07	16.8	2.56	3.59	0.06	0.05	0.06	0.032	0.07	11.6	15.4	0.57	890	3.97	0.02
DD020622		1.16	20.8	2.07	2.87	<0.05	0.05	0.06	0.027	0.06	10.7	14.8	1.50	601	2.00	0.03

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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020335		1.28	51.6	850	11.0	13.7	0.014	0.13	1.56	2.5	4.2	0.4	76.0	<0.01	0.04	1.0
DD020336		0.90	34.0	690	8.1	11.8	0.006	0.13	1.11	1.6	2.2	0.5	54.6	<0.01	0.04	0.5
DD020337		2.29	74.1	1040	10.2	40.9	0.002	0.10	0.89	6.7	1.9	0.8	59.8	<0.01	0.04	2.5
DD020338		1.04	31.0	530	17.3	9.1	<0.001	0.02	0.70	4.4	0.9	0.9	18.9	0.01	0.03	1.4
DD020339		0.63	154.5	1020	53.1	12.5	0.003	0.04	2.73	3.6	4.2	1.4	29.3	<0.01	0.08	3.7
DD020340		0.46	42.5	1240	73.2	14.0	0.012	0.06	3.13	2.8	8.1	3.1	34.9	<0.01	0.07	1.9
DD020351		0.57	29.8	1390	77.5	14.5	0.003	0.05	4.03	3.1	6.5	2.1	31.5	<0.01	0.10	2.7
DD020352		0.56	30.1	1220	75.5	15.1	0.004	0.06	3.18	2.9	4.2	2.4	33.6	<0.01	0.07	2.0
DD020353		0.47	25.7	1070	59.9	10.2	0.001	0.07	3.46	2.0	6.0	1.8	36.0	<0.01	0.07	1.5
DD020354		0.46	25.9	1000	70.1	10.6	0.002	0.06	2.79	1.9	3.2	2.2	31.0	<0.01	0.06	1.6
DD020355		0.55	25.6	1120	55.4	12.5	0.001	0.04	2.08	2.6	2.1	1.5	27.8	<0.01	0.04	2.2
DD020356		0.67	28.5	1140	85.0	16.1	0.002	0.05	3.24	3.2	3.1	1.9	31.9	<0.01	0.05	2.9
DD020357		0.48	23.7	1070	69.0	12.0	0.001	0.06	2.92	2.1	2.3	1.5	31.3	<0.01	0.06	1.8
DD020358		0.58	27.5	1210	98.2	13.2	<0.001	0.05	4.11	3.0	4.2	2.2	35.9	<0.01	0.08	2.6
DD020359		0.58	72.7	1370	66.1	17.4	0.003	0.17	5.37	2.3	9.3	2.4	45.9	<0.01	0.08	1.2
DD020360		1.10	39.9	970	29.8	12.3	0.001	0.03	2.92	3.9	2.1	1.4	31.0	<0.01	0.03	2.5
DD020361		0.47	38.3	1200	51.4	15.3	0.004	0.05	2.98	2.8	3.3	1.2	24.8	<0.01	0.06	2.3
DD020362		0.41	31.7	480	21.2	9.6	0.001	0.02	4.09	1.9	1.1	1.7	10.9	<0.01	0.03	1.8
DD020363		1.12	43.8	610	39.4	15.1	0.001	0.04	1.60	4.4	2.6	1.4	12.0	0.01	0.05	5.7
DD020364		0.52	37.0	1590	262	13.8	0.003	0.10	5.02	3.5	9.5	4.9	75.8	<0.01	0.10	2.1
DD020365		0.65	46.2	960	133.0	13.9	0.001	0.06	4.32	2.8	5.0	5.7	36.8	<0.01	0.09	2.3
DD020366		0.68	37.3	1250	170.0	18.9	<0.001	0.09	3.44	3.3	3.7	2.5	51.9	<0.01	0.07	2.0
DD020367		0.59	45.9	1010	290	12.8	0.001	0.06	4.49	3.5	3.1	3.4	30.2	<0.01	0.09	2.0
DD020368		0.46	29.4	1130	501	11.1	0.003	0.08	6.11	2.5	6.4	3.8	35.1	<0.01	0.06	2.0
DD020369		0.47	31.9	1260	55.0	10.5	0.004	0.09	2.93	1.8	3.7	2.6	29.4	<0.01	0.06	0.9
DD020370		0.42	38.0	1260	92.4	16.1	0.006	0.12	7.68	2.6	6.4	9.0	49.1	<0.01	0.11	0.8
DD020371		0.52	103.5	1180	56.7	16.0	0.003	0.07	4.34	2.6	4.8	9.6	35.0	<0.01	0.13	1.8
DD020372		0.55	176.0	1180	57.3	17.7	0.002	0.06	4.59	3.4	5.4	5.7	35.3	<0.01	0.07	2.9
DD020373		0.90	34.5	800	29.2	9.1	0.001	0.03	1.87	3.3	3.0	1.1	14.6	<0.01	0.05	2.1
DD020374		1.01	42.5	960	25.7	13.3	0.001	0.04	1.95	3.7	2.3	1.3	19.8	0.01	0.03	2.7
DD020375		0.72	77.2	1210	33.1	14.7	0.001	0.05	3.13	4.2	3.6	1.8	30.4	<0.01	0.06	1.9
DD020376		0.92	7.8	400	24.2	7.2	0.001	0.03	1.83	1.2	2.8	2.5	13.2	<0.01	0.07	0.4
DD020377		0.85	34.2	720	53.5	12.4	0.001	0.08	7.16	2.2	5.1	6.5	32.2	<0.01	0.11	1.3
DD020378		1.43	13.9	360	32.2	7.7	0.001	0.03	3.06	1.8	1.0	2.3	12.6	<0.01	0.06	2.1
DD020379		1.22	40.6	480	28.8	14.5	0.001	0.03	2.90	2.8	2.1	1.9	21.8	<0.01	0.06	2.1
DD020380		0.67	66.6	810	32.5	17.1	0.002	0.05	3.89	3.4	2.7	2.9	25.2	<0.01	0.08	1.5
DD020619		0.68	27.1	810	34.3	11.1	0.007	0.05	1.17	2.4	2.1	0.9	25.4	<0.01	0.02	2.2
DD020620		0.66	31.5	860	36.5	12.8	0.001	0.03	1.74	2.8	1.1	1.0	29.7	<0.01	0.05	3.2
DD020621		0.67	30.4	890	35.1	16.0	0.003	0.04	1.14	2.5	1.5	1.0	23.8	<0.01	0.02	2.2
DD020622		0.47	27.6	900	30.8	12.2	0.005	0.05	0.92	2.1	1.1	0.7	32.4	<0.01	0.02	2.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020335		0.049	0.28	6.92	73	0.14	4.90	474	1.5
DD020336		0.030	0.19	5.20	55	0.30	3.12	166	1.1
DD020337		0.146	0.69	6.93	138	0.18	7.28	267	1.1
DD020338		0.048	0.21	0.83	56	0.37	10.55	103	0.5
DD020339		0.023	2.10	7.22	49	0.71	10.80	1700	2.8
DD020340		0.015	0.65	5.27	70	0.36	9.22	267	2.1
DD020351		0.014	0.53	4.78	61	0.49	9.84	231	2.5
DD020352		0.015	0.55	4.09	64	0.52	10.30	213	2.5
DD020353		0.013	0.37	5.32	51	0.45	7.76	188	2.1
DD020354		0.015	0.42	2.39	53	0.59	7.14	182	1.7
DD020355		0.017	0.44	1.94	53	0.39	7.17	196	1.8
DD020356		0.017	0.50	2.88	66	0.48	10.45	232	2.6
DD020357		0.015	0.41	2.91	54	0.33	7.46	164	2.1
DD020358		0.015	0.63	2.22	73	0.43	8.24	187	2.7
DD020359		0.013	1.01	3.39	76	0.75	18.55	331	3.8
DD020360		0.045	0.36	1.59	75	0.49	9.37	201	2.5
DD020361		0.019	0.42	2.30	49	0.40	9.60	435	2.0
DD020362		0.020	0.25	1.32	43	1.50	6.07	610	1.5
DD020363		0.028	0.31	1.48	53	1.82	6.74	185	3.6
DD020364		0.016	1.20	5.38	96	0.69	13.45	414	1.9
DD020365		0.024	0.89	3.44	92	0.67	12.25	354	0.9
DD020366		0.018	1.15	2.88	86	0.66	9.74	289	1.9
DD020367		0.022	0.56	3.47	87	1.08	13.75	333	2.5
DD020368		0.018	0.64	2.34	77	0.49	7.82	222	2.1
DD020369		0.019	0.55	5.78	66	0.36	6.91	296	1.6
DD020370		0.016	1.18	6.99	100	0.64	9.74	188	0.8
DD020371		0.021	0.80	3.76	115	0.59	10.20	444	2.2
DD020372		0.023	1.78	5.72	109	0.90	12.70	715	2.4
DD020373		0.037	0.31	2.34	66	0.46	7.73	128	1.5
DD020374		0.021	0.50	3.73	73	0.36	8.02	223	2.8
DD020375		0.028	0.96	6.88	72	0.58	10.95	241	1.3
DD020376		0.032	0.48	1.67	103	0.43	2.36	42	<0.5
DD020377		0.031	0.78	1.87	82	0.70	3.90	102	0.5
DD020378		0.045	0.34	0.59	75	0.48	2.18	72	0.7
DD020379		0.048	0.41	1.00	70	0.35	4.13	135	0.5
DD020380		0.043	0.52	2.54	76	0.48	11.10	251	0.6
DD020619		0.025	0.14	1.70	36	2.81	8.91	256	1.4
DD020620		0.027	0.22	0.60	37	1.47	9.23	235	2.9
DD020621		0.029	0.23	1.44	41	1.18	10.85	261	1.5
DD020622		0.019	0.27	0.79	31	1.80	9.11	260	1.4



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD020623		0.10	0.006	0.45	1.52	21.4	<0.2	<10	390	0.67	0.93	1.17	1.38	26.3	11.4	28
DD020624		0.24	0.006	0.44	1.61	15.9	<0.2	<10	450	0.69	1.01	1.18	1.36	25.4	10.5	29
DD020625		0.24	0.005	0.41	1.58	21.0	<0.2	<10	590	0.67	1.30	1.54	1.68	23.1	11.3	30
DD020626		0.21	0.007	0.47	1.58	25.1	<0.2	<10	610	0.78	3.11	1.32	1.35	25.3	10.9	29
DD020627		0.25	0.009	0.50	1.79	309	<0.2	<10	430	1.02	8.01	2.34	1.71	26.8	12.6	29
DD020628		0.22	0.006	0.46	1.65	57.6	<0.2	<10	380	0.88	1.64	1.15	1.60	27.4	12.2	28
DD020629		0.29	0.004	0.33	1.62	18.1	<0.2	<10	230	0.86	0.90	4.90	1.01	22.5	10.0	25
DD020630		0.32	0.007	0.42	1.95	21.2	<0.2	<10	260	0.98	0.86	1.84	1.05	30.9	12.5	31
DD020631		0.48	0.007	0.27	1.22	15	<0.2	<10	160	0.48	0.46	10.50	1.05	16.45	7.1	19
DD020632		0.42	0.007	0.37	1.56	21.7	<0.2	<10	210	0.79	0.75	5.74	1.55	26.8	11.4	25
DD020633		0.35	0.008	0.46	1.77	24.9	<0.2	<10	260	0.83	0.99	3.66	1.61	29.4	11.6	27
DD020634		0.23	0.004	0.28	1.79	11.1	<0.2	<10	190	0.54	0.90	7.05	0.49	21.7	9.4	26
DD020635		0.23	0.004	0.35	1.67	15.7	<0.2	<10	190	0.60	0.67	6.63	5.74	21.4	10.7	25
DD020636		0.24	0.004	0.36	1.80	14.2	<0.2	<10	240	0.70	1.32	5.73	2.21	21.2	8.6	26
DD020637		0.25	0.002	0.17	1.58	8	<0.2	<10	90	0.56	0.32	14.55	0.57	17.15	5.0	18
DD020638		0.25	0.004	0.33	1.74	17.2	<0.2	<10	250	0.72	0.97	3.50	1.13	24.9	10.9	29
DD020639		0.31	0.004	0.20	1.22	11	<0.2	<10	110	0.39	0.36	12.35	0.82	16.60	6.4	17
DD020640		0.36	0.004	0.33	0.97	11	<0.2	<10	120	0.36	0.55	11.15	0.62	14.65	7.0	17
DD020641		0.27	0.003	0.24	1.20	12.1	<0.2	<10	280	0.44	0.38	6.41	0.73	18.20	7.7	20
DD020642		0.34	0.002	0.05	0.16	<2	<0.2	<10	30	<0.05	0.03	18.60	0.13	4.54	0.8	2
DD020643		0.30	0.002	0.10	0.58	6	<0.2	<10	170	0.22	0.21	15.50	0.38	7.56	3.3	9
DD020644		0.38	0.005	0.31	1.70	19.0	<0.2	<10	240	0.72	0.52	4.30	0.45	21.8	11.8	36
DD020645		0.30	0.004	0.12	0.63	6	<0.2	<10	130	0.22	0.19	15.70	0.25	8.82	3.8	10
DD020646		0.18	0.017	0.51	1.50	36.0	<0.2	<10	330	0.67	5.62	5.09	3.28	20.7	11.7	31
DD020647		0.23	0.006	0.64	1.68	26.7	<0.2	<10	440	0.74	1.09	1.18	17.30	21.2	19.1	41
DD020648		0.34	0.009	0.48	1.72	23.9	<0.2	<10	140	0.36	0.91	0.10	2.94	22.5	10.9	39
DD020649		0.26	0.003	0.39	1.41	18.6	<0.2	<10	370	0.40	0.54	1.16	10.30	19.85	16.3	42
DD020650		0.20	0.004	0.37	1.52	20.0	<0.2	<10	370	0.43	0.57	1.15	6.55	21.9	15.2	45
DD020651		0.23	0.004	0.37	1.50	17.9	<0.2	<10	340	0.47	0.44	1.16	5.73	22.1	15.3	44
DD020652		0.24	0.004	0.42	1.52	18.3	<0.2	<10	300	0.44	0.53	1.11	8.22	20.7	15.3	46
DD020653		0.24	0.006	0.40	1.66	20.9	<0.2	<10	310	0.44	0.58	1.61	3.45	22.3	14.0	49
DD020654		0.30	0.005	0.44	1.97	22.5	<0.2	<10	250	0.61	0.68	0.89	1.69	25.9	18.7	63
DD020655		0.30	0.004	0.30	1.62	15.9	<0.2	<10	290	0.44	0.44	1.37	3.88	20.8	13.8	46
DD020656		0.44	0.009	0.59	2.44	22.5	<0.2	<10	330	0.82	0.84	1.20	6.63	25.2	22.6	96
DD020657		0.22	0.003	0.54	1.76	15.2	<0.2	<10	150	0.64	0.71	0.26	3.63	16.75	11.4	40
DD020658		0.21	0.004	0.25	1.52	21.4	<0.2	<10	150	0.39	0.71	0.06	1.29	26.8	6.1	32
DD020659		0.18	0.006	0.37	1.52	16.2	<0.2	<10	300	0.45	0.58	1.10	4.43	21.5	15.7	44
DD020660		0.18	0.008	0.50	1.65	22.4	<0.2	<10	520	0.50	0.77	1.46	7.07	22.1	16.4	49

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12138692**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020623		1.53	28.9	2.93	4.63	<0.05	0.06	0.09	0.042	0.12	14.6	18.0	0.70	721	2.79	0.02
DD020624		1.84	30.8	2.56	4.83	<0.05	0.06	0.08	0.040	0.10	13.0	18.9	0.74	353	1.81	0.02
DD020625		1.77	31.7	3.00	4.45	0.05	0.05	0.09	0.041	0.09	11.6	18.4	0.81	891	2.71	0.03
DD020626		1.42	49.1	3.25	4.72	0.05	0.04	0.11	0.079	0.10	13.4	17.9	0.84	988	2.68	0.02
DD020627		4.41	53.0	3.58	5.11	0.05	0.06	0.12	0.058	0.12	14.0	22.3	1.76	583	2.71	0.02
DD020628		2.87	35.1	2.95	4.93	0.05	0.06	0.09	0.044	0.11	14.6	19.9	1.04	590	2.56	0.02
DD020629		4.58	22.2	2.29	4.91	0.05	0.05	0.05	0.039	0.08	11.3	21.2	4.12	413	1.59	0.02
DD020630		4.49	34.7	3.11	7.23	0.05	0.06	0.08	0.042	0.16	15.3	23.0	2.19	631	2.19	0.02
DD020631		2.51	23.8	1.78	3.69	0.05	0.05	0.05	0.027	0.07	8.7	13.1	7.19	598	1.90	0.02
DD020632		3.51	41.9	2.83	4.83	0.06	0.08	0.07	0.045	0.12	13.8	17.3	4.54	503	4.35	0.02
DD020633		4.36	31.7	2.90	5.36	0.06	0.05	0.06	0.059	0.13	15.1	20.4	3.07	388	2.78	0.02
DD020634		15.25	30.7	2.08	5.60	0.05	0.03	0.05	0.026	0.19	10.7	25.9	5.97	538	1.21	0.02
DD020635		5.05	26.9	2.34	5.00	0.05	0.04	0.07	0.034	0.10	10.8	20.4	5.08	449	2.28	0.02
DD020636		7.34	26.0	2.10	5.21	0.05	0.03	0.05	0.043	0.08	11.0	22.3	4.79	442	2.10	0.02
DD020637		1.47	14.7	1.30	4.49	0.05	0.04	0.04	0.046	0.06	8.1	13.6	8.06	316	1.10	0.03
DD020638		8.95	26.0	2.62	5.15	0.05	0.04	0.07	0.039	0.08	12.6	27.8	2.98	439	3.15	0.02
DD020639		2.90	12.3	1.39	3.38	<0.05	0.02	0.04	0.024	0.04	8.3	12.5	8.51	321	1.85	0.02
DD020640		1.13	15.3	1.61	2.71	<0.05	0.03	0.04	0.022	0.05	7.6	11.6	7.11	355	2.07	0.02
DD020641		1.69	16.7	1.85	3.54	0.06	0.04	0.04	0.020	0.05	9.2	13.4	4.30	302	2.12	0.03
DD020642		0.38	1.5	0.19	0.37	<0.05	<0.02	0.01	<0.005	0.02	1.9	3.6	11.90	84	0.42	0.02
DD020643		0.67	8.2	0.77	1.54	<0.05	0.02	0.02	0.012	0.03	3.9	6.6	9.82	178	1.19	0.02
DD020644		2.07	28.2	2.70	5.60	0.08	0.05	0.07	0.033	0.06	11.4	21.0	3.30	409	3.26	0.03
DD020645		0.75	9.1	0.89	1.72	<0.05	0.02	0.03	0.011	0.03	4.6	8.4	9.92	191	1.36	0.02
DD020646		2.74	41.5	2.96	4.63	<0.05	0.04	0.08	0.058	0.07	11.8	17.9	3.26	563	4.31	0.03
DD020647		3.57	58.0	3.37	5.04	0.07	0.05	0.11	0.053	0.10	11.6	19.0	0.77	561	9.39	0.03
DD020648		3.10	30.8	3.50	6.87	<0.05	0.02	0.03	0.044	0.07	11.8	19.8	0.59	277	6.30	0.01
DD020649		2.79	38.9	2.87	4.40	0.08	0.05	0.09	0.044	0.08	9.9	16.9	0.79	1140	6.24	0.03
DD020650		2.93	38.8	3.02	4.91	0.08	0.06	0.11	0.044	0.10	10.9	17.0	0.89	477	5.81	0.03
DD020651		2.81	42.5	3.00	4.68	0.08	0.06	0.11	0.037	0.08	10.9	18.3	0.82	397	5.19	0.03
DD020652		3.22	46.0	2.97	4.69	0.09	0.05	0.12	0.041	0.08	10.6	18.4	0.82	573	5.54	0.03
DD020653		3.46	44.4	3.10	5.35	0.08	0.04	0.11	0.037	0.10	11.7	19.6	0.85	483	4.77	0.03
DD020654		4.38	36.3	3.88	6.32	0.08	0.06	0.10	0.042	0.12	13.1	24.0	1.11	338	7.16	0.05
DD020655		4.23	34.2	2.92	5.20	0.08	0.05	0.09	0.035	0.12	10.3	18.4	1.01	443	4.20	0.05
DD020656		11.05	78.6	4.26	7.26	0.10	0.08	0.09	0.048	0.20	13.1	31.3	1.53	691	11.75	0.06
DD020657		5.31	40.0	3.10	7.44	0.07	0.02	0.07	0.038	0.06	7.8	18.7	0.40	378	25.9	0.02
DD020658		1.80	27.0	3.19	6.61	0.07	<0.02	0.05	0.043	0.06	13.2	14.6	0.33	183	7.96	0.01
DD020659		2.70	36.7	2.95	4.86	0.08	0.05	0.10	0.040	0.08	10.6	18.6	0.81	417	5.44	0.03
DD020660		3.02	55.7	3.25	5.41	0.09	0.05	0.11	0.044	0.09	12.5	19.7	0.82	631	7.25	0.03

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**CERTIFICATE OF ANALYSIS WH12138692**

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020623		0.79	33.9	960	37.8	15.7	0.002	0.06	1.78	3.5	1.7	1.1	30.2	<0.01	0.06	2.4
DD020624		0.86	34.0	920	32.7	15.0	0.005	0.08	1.73	3.3	2.4	1.0	28.2	<0.01	0.03	1.9
DD020625		0.91	32.9	960	33.6	16.3	0.005	0.07	1.63	3.1	2.2	1.1	31.5	<0.01	0.01	1.8
DD020626		0.79	35.3	1000	26.4	15.2	0.001	0.06	1.64	3.2	1.6	1.0	26.4	<0.01	0.06	1.4
DD020627		1.26	36.7	1010	32.6	28.9	0.002	0.07	1.65	3.2	1.7	2.9	28.2	<0.01	0.10	1.6
DD020628		0.84	37.4	910	32.3	24.7	0.001	0.07	1.61	3.4	1.9	1.3	26.2	<0.01	0.03	1.9
DD020629		0.77	27.3	680	20.2	20.2	<0.001	0.05	0.98	2.9	0.5	1.0	34.9	<0.01	0.02	1.7
DD020630		1.02	33.3	590	25.3	48.2	0.001	0.04	1.26	3.9	0.9	1.2	23.5	<0.01	0.04	2.6
DD020631		0.63	24.6	540	15.0	14.4	0.001	0.02	0.99	2.6	0.9	0.6	74.0	<0.01	0.03	2.1
DD020632		0.76	38.0	700	30.0	31.1	0.001	0.03	1.74	4.3	0.8	1.5	44.2	<0.01	0.01	3.4
DD020633		0.93	38.3	830	37.7	29.7	0.001	0.04	1.94	3.8	1.2	1.6	38.8	<0.01	0.04	3.0
DD020634		0.75	29.4	570	14.0	38.1	0.001	0.04	0.74	2.8	0.8	0.8	49.0	<0.01	0.03	1.5
DD020635		0.87	33.8	660	25.6	24.7	0.002	0.04	1.44	3.1	1.0	0.9	48.5	<0.01	0.04	2.4
DD020636		0.73	30.2	680	29.6	31.5	0.001	0.06	2.04	2.6	1.0	1.6	45.6	<0.01	0.02	1.3
DD020637		1.02	16.1	340	10.1	9.5	0.001	0.03	0.70	2.4	0.7	0.8	111.0	<0.01	0.02	1.9
DD020638		0.85	34.7	760	19.5	24.9	0.004	0.05	1.23	3.1	1.4	1.0	32.1	<0.01	0.03	1.3
DD020639		0.55	23.1	490	14.0	9.8	0.002	0.03	0.50	1.9	0.6	0.5	75.2	<0.01	0.01	1.0
DD020640		0.61	24.9	540	17.0	8.6	0.001	0.02	0.97	2.2	0.8	0.6	48.5	<0.01	0.01	1.6
DD020641		0.78	24.6	580	15.1	8.5	0.001	0.04	1.01	2.4	1.0	0.6	31.3	<0.01	0.04	1.5
DD020642		0.09	1.5	100	0.9	2.4	0.001	0.07	0.08	0.4	<0.2	<0.2	61.6	<0.01	<0.01	0.2
DD020643		0.30	11.5	290	7.5	4.5	<0.001	0.07	0.61	1.1	0.5	0.4	69.6	<0.01	<0.01	0.5
DD020644		1.12	44.4	530	26.4	10.5	0.001	0.02	1.25	4.6	0.9	0.8	39.4	<0.01	0.04	2.8
DD020645		0.41	12.5	210	6.8	5.5	0.001	0.02	0.54	1.5	<0.2	0.3	103.0	<0.01	0.01	1.0
DD020646		0.76	57.6	900	25.7	24.3	0.004	0.07	8.33	2.8	2.4	4.3	43.8	<0.01	0.04	1.1
DD020647		1.00	144.0	1050	27.9	18.0	0.015	0.10	3.70	3.5	6.8	1.9	41.6	<0.01	0.07	1.8
DD020648		1.55	85.2	460	26.8	14.8	0.001	0.03	2.10	3.1	1.9	1.6	13.4	<0.01	0.07	3.2
DD020649		0.91	104.0	990	20.4	15.0	0.011	0.09	2.19	3.2	2.8	1.0	33.4	<0.01	0.05	1.7
DD020650		1.19	84.8	1010	24.1	17.1	0.007	0.07	2.68	3.7	3.1	1.2	33.4	<0.01	0.06	2.0
DD020651		1.08	81.7	1000	22.5	13.4	0.010	0.08	2.49	3.5	3.4	0.9	34.3	<0.01	0.06	1.8
DD020652		1.07	91.1	970	23.0	13.8	0.014	0.09	2.58	3.5	4.4	1.0	33.5	<0.01	0.05	1.5
DD020653		1.42	61.6	880	23.9	21.4	0.005	0.09	2.19	3.4	2.7	0.9	37.0	<0.01	0.07	1.1
DD020654		1.80	70.6	1100	27.7	21.7	0.002	0.05	2.50	4.8	1.6	1.0	37.2	<0.01	0.06	2.8
DD020655		1.32	66.9	1040	18.3	21.6	0.008	0.07	1.92	3.8	2.6	0.7	39.5	<0.01	0.04	1.8
DD020656		1.67	129.0	1410	30.9	35.8	0.002	0.08	2.23	5.5	2.6	0.7	62.1	<0.01	0.09	3.7
DD020657		1.37	146.0	880	17.7	16.1	0.001	0.04	1.41	2.2	3.0	0.7	22.2	0.01	0.09	1.5
DD020658		1.13	34.0	480	48.5	14.1	<0.001	0.02	1.58	2.7	1.4	0.9	9.4	<0.01	0.06	1.4
DD020659		1.23	69.9	980	22.0	14.6	0.009	0.07	2.23	3.8	3.0	0.9	32.3	<0.01	0.05	1.9
DD020660		1.22	84.1	890	28.1	19.4	0.010	0.08	2.52	3.7	3.8	1.1	39.7	<0.01	0.08	1.4

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020623		0.025	0.22	2.34	50	1.53	9.31	219	2.1
DD020624		0.027	0.26	3.56	51	0.87	9.86	207	2.1
DD020625		0.029	0.26	3.71	55	2.62	8.65	247	1.7
DD020626		0.028	0.20	2.45	53	1.20	10.60	155	1.4
DD020627		0.030	0.43	1.81	54	7.24	12.15	184	1.8
DD020628		0.028	0.38	2.43	50	1.57	10.40	199	2.2
DD020629		0.038	0.45	1.13	42	3.37	8.08	139	1.6
DD020630		0.045	0.46	1.11	56	31.0	9.48	138	1.8
DD020631		0.036	0.26	1.01	32	4.45	6.64	108	1.8
DD020632		0.040	0.52	1.45	44	5.72	11.20	166	2.5
DD020633		0.045	0.50	1.52	52	2.47	10.15	217	1.8
DD020634		0.049	0.72	1.32	36	0.75	8.26	76	1.3
DD020635		0.047	0.44	1.38	43	1.06	8.23	146	1.7
DD020636		0.044	0.52	1.79	49	1.34	8.67	220	1.2
DD020637		0.054	0.20	0.63	26	1.92	6.27	65	1.4
DD020638		0.041	0.41	3.64	52	1.21	9.43	162	1.2
DD020639		0.034	0.22	1.96	26	0.48	6.07	140	0.7
DD020640		0.029	0.18	0.87	33	0.42	5.46	112	1.4
DD020641		0.038	0.21	2.39	37	0.39	7.00	112	1.3
DD020642		0.005	0.07	0.34	2	0.13	1.26	9	<0.5
DD020643		0.016	0.16	0.82	17	0.16	2.91	57	0.7
DD020644		0.054	0.29	2.83	71	0.36	10.00	111	1.7
DD020645		0.020	0.12	0.78	19	0.16	3.53	42	0.8
DD020646		0.036	0.33	2.84	71	2.41	9.82	460	1.2
DD020647		0.040	0.67	4.47	86	1.04	10.95	633	2.3
DD020648		0.046	0.56	1.59	98	0.54	4.00	483	1.1
DD020649		0.046	0.74	1.88	67	0.31	8.30	493	1.4
DD020650		0.052	0.60	1.78	77	0.31	8.34	422	1.8
DD020651		0.047	0.57	1.96	77	0.18	8.61	397	1.7
DD020652		0.045	0.65	2.86	74	0.20	9.15	431	1.6
DD020653		0.050	0.50	2.80	77	0.20	9.08	275	1.2
DD020654		0.069	0.59	1.76	108	0.29	19.20	307	2.0
DD020655		0.057	0.44	1.76	79	0.19	7.65	303	1.5
DD020656		0.090	0.86	5.66	172	0.50	18.45	673	3.4
DD020657		0.042	0.39	3.47	170	0.67	5.18	592	0.6
DD020658		0.029	0.22	0.81	117	0.44	3.59	316	<0.5
DD020659		0.049	0.57	1.97	76	0.52	7.89	344	1.7
DD020660		0.046	0.60	2.96	88	0.55	11.50	356	1.3



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Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138692**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12138693**

Project: ATAC- Regional- Kathy- Areas I,J

P.O. No.: Soil 5

This report is for 162 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- JUN- 2012.

The following have access to data associated with this certificate:

ROB CARNE  
 JOAN MARIACHER

JOAN CARNE  
 JORDAN MCDIVITT

JULIA LANE

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: ATAC RESOURCES LTD.  
 ATTN: JORDAN MCDIVITT  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020661		0.27	0.006	0.35	1.29	22.8	<0.2	<10	360	0.39	0.78	1.04	5.49	18.70	11.9	37
DD020662		0.27	0.005	0.34	1.37	15.9	<0.2	<10	440	0.42	0.57	1.04	6.39	20.1	13.3	40
DD020663		0.28	0.004	0.47	1.65	27.8	<0.2	<10	370	0.57	1.09	0.86	10.50	22.3	17.9	44
DD020664		0.31	0.004	0.57	1.14	16	<0.2	<10	280	0.39	1.59	10.80	1.53	14.55	6.5	20
DD020665		0.40	0.004	0.22	1.14	12	<0.2	<10	200	0.40	0.52	12.40	1.04	15.05	5.8	18
DD020666		0.26	0.002	0.08	0.83	5	<0.2	<10	80	0.21	0.12	15.90	0.89	11.35	3.7	11
DD020667		0.32	0.003	0.04	0.53	<2	<0.2	<10	60	0.13	0.09	17.85	0.22	7.42	3.1	7
DD020668		0.44	0.006	0.27	1.81	24.4	<0.2	<10	240	0.63	0.91	3.50	1.09	29.4	16.5	39
DD020669		0.45	0.001	0.08	0.54	5	<0.2	<10	70	0.20	0.20	16.45	0.54	9.69	2.8	7
DD020670		0.34	0.003	0.27	1.84	13.0	<0.2	<10	250	0.54	0.62	6.96	1.46	21.5	10.8	28
DD020571		0.13	0.005	0.67	1.40	39.3	<0.2	<10	650	0.92	0.97	1.07	2.25	18.30	9.5	30
DD020572		0.28	0.008	0.81	1.82	35.3	<0.2	<10	700	0.87	2.40	0.95	2.40	28.3	10.9	35
DD020573		0.23	0.008	0.88	1.64	28.4	<0.2	<10	870	0.81	1.67	1.21	4.63	28.3	10.8	30
DD020574		0.27	0.155	2.53	1.49	102.5	<0.2	<10	490	1.28	21.4	8.46	29.3	26.0	12.8	32
DD020575		0.22	0.018	4.22	1.31	45	<0.2	<10	390	1.49	23.9	14.85	47.4	27.7	14.2	29
DD020576		0.29	0.006	0.61	1.55	23.3	<0.2	<10	1010	0.60	5.39	0.76	2.60	22.8	9.5	28
DD020577		0.29	0.004	0.19	1.44	26.5	<0.2	<10	370	0.45	4.16	0.12	0.93	22.7	5.2	25
DD020578		0.31	0.007	0.24	1.35	36.5	<0.2	<10	280	0.37	6.03	0.08	0.84	21.6	5.4	29
DD020579		0.36	0.005	0.70	1.98	29.1	<0.2	<10	370	0.90	1.39	0.23	1.02	17.60	6.5	46
DD020580		0.18	0.004	0.44	1.23	23.4	<0.2	<10	300	0.33	1.23	0.10	1.05	23.8	4.5	23
DD020591		0.23	0.007	0.41	1.30	18.5	<0.2	<10	700	0.38	0.37	2.00	6.17	17.05	16.0	36
DD020592		0.22	0.003	0.35	2.30	19.6	<0.2	<10	230	0.69	0.33	1.06	4.74	33.4	22.2	87
DD020593		0.21	0.003	0.38	1.96	23.1	<0.2	<10	200	0.68	0.45	0.30	1.81	25.6	12.1	49
DD020594		0.29	0.006	0.75	1.97	21.5	<0.2	<10	250	0.91	0.43	1.35	3.54	21.7	14.6	52
DD020595		0.24	0.005	0.28	1.54	13.0	<0.2	<10	190	0.70	0.29	1.96	1.59	19.45	13.4	33
DD020596		0.35	0.006	0.39	1.58	19.5	<0.2	<10	300	0.64	0.46	1.27	1.48	26.5	14.5	29
DD020597		0.36	0.007	0.17	1.96	13.8	<0.2	<10	220	0.70	0.80	1.27	0.52	21.3	17.2	30
DD020598		0.20	0.004	0.20	2.25	9.5	<0.2	<10	270	0.72	0.60	1.40	0.28	26.3	14.7	47
DD020599		0.33	0.003	0.09	5.15	4.5	<0.2	<10	420	1.61	0.81	1.40	0.22	32.8	19.0	53
DD020600		0.27	0.003	0.27	2.83	13.9	<0.2	<10	270	1.09	0.31	0.73	1.72	21.6	12.6	71
DD025751		0.15	0.007	0.42	1.40	39.6	<0.2	<10	340	0.74	2.79	4.76	1.71	22.9	10.5	30
DD025752		0.27	0.004	0.34	1.09	22.0	<0.2	<10	350	0.47	1.08	5.48	1.50	18.60	7.9	22
DD025753		0.15	0.006	0.46	1.41	87.3	<0.2	<10	420	0.76	12.00	1.22	1.92	28.8	12.3	26
DD025754		0.20	0.006	0.34	1.56	31.7	<0.2	<10	280	0.87	1.41	1.29	1.33	25.3	10.9	29
DD025755		0.11	0.006	0.35	1.66	34.5	<0.2	<10	370	0.92	2.02	1.41	1.97	24.3	10.9	30
DD025756		0.23	0.005	0.35	1.80	26.8	<0.2	<10	320	0.86	1.11	2.48	1.41	23.8	11.5	30
DD025757		0.23	0.006	0.34	1.13	27.7	<0.2	<10	220	0.65	1.14	9.43	1.28	19.35	8.7	19
DD025758		0.28	0.005	0.23	1.02	25	<0.2	<10	190	0.53	0.80	11.85	1.01	17.20	7.5	15
DD025759		0.21	0.004	0.21	1.19	20	<0.2	<10	250	0.58	0.80	10.10	0.84	17.30	8.2	18
DD025760		0.29	0.004	0.25	1.21	20	<0.2	<10	200	0.45	0.51	11.20	0.95	18.65	7.6	18

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020661		2.46	36.6	2.59	3.99	0.07	0.06	0.15	0.049	0.08	9.5	13.8	0.70	404	5.75	0.03
DD020662		2.75	34.2	2.59	4.27	0.08	0.05	0.07	0.050	0.07	10.1	15.8	0.73	297	3.84	0.03
DD020663		4.00	46.0	3.47	5.06	0.09	0.07	0.09	0.051	0.09	11.1	19.2	0.86	443	6.58	0.03
DD020664		2.36	15.1	1.74	2.79	<0.05	0.03	0.05	0.029	0.05	7.4	15.9	7.04	397	3.71	0.02
DD020665		2.78	13.4	1.48	2.58	<0.05	0.03	0.04	0.025	0.05	7.4	16.6	8.26	248	3.14	0.02
DD020666		1.29	4.1	0.81	1.77	<0.05	0.02	0.02	0.012	0.02	5.5	11.2	10.25	226	0.69	0.02
DD020667		0.86	3.3	0.56	1.13	<0.05	0.02	0.01	0.008	0.04	3.7	6.7	11.35	83	2.19	0.02
DD020668		2.56	52.3	3.54	5.20	0.08	0.07	0.10	0.048	0.12	14.5	20.2	2.77	665	4.43	0.03
DD020669		2.91	7.1	0.47	1.17	<0.05	0.03	0.03	0.013	0.07	4.7	8.1	10.90	83	5.00	0.01
DD020670		4.15	25.3	2.43	5.06	0.07	0.04	0.06	0.038	0.10	10.7	19.0	5.27	567	3.63	0.05
DD020571		2.00	37.3	2.85	4.02	0.08	0.08	0.10	0.066	0.08	9.6	16.5	0.44	237	4.39	0.02
DD020572		2.08	47.5	3.29	5.11	0.09	0.09	0.12	0.069	0.10	14.9	21.1	0.62	518	4.52	0.02
DD020573		1.94	37.4	2.61	4.46	0.08	0.08	0.12	0.082	0.12	14.2	21.1	0.55	1220	4.09	0.01
DD020574		4.90	246	3.85	3.87	0.09	0.06	0.09	0.220	0.05	15.7	18.7	5.31	2270	9.26	0.02
DD020575		8.90	227	3.17	3.21	0.10	0.06	0.10	1.265	0.18	18.5	16.9	9.41	1760	10.25	0.02
DD020576		2.71	35.7	2.70	4.83	0.07	0.06	0.12	0.131	0.05	11.7	16.7	0.54	470	4.76	0.01
DD020577		2.52	22.5	2.84	5.91	0.07	0.02	0.06	0.120	0.05	11.1	14.0	0.27	164	4.66	0.01
DD020578		1.73	42.6	3.02	5.39	0.07	<0.02	0.07	0.092	0.06	10.2	11.2	0.31	209	6.38	0.01
DD020579		3.77	27.6	2.99	7.94	0.08	0.02	0.09	0.056	0.05	8.7	24.8	0.45	216	4.51	0.01
DD020580		2.41	32.1	2.47	6.35	0.06	<0.02	0.06	0.049	0.05	11.8	8.4	0.23	139	6.46	0.01
DD020591		2.52	41.2	2.86	4.47	0.10	0.05	0.12	0.031	0.08	8.6	15.5	0.76	667	5.07	0.02
DD020592		8.69	33.4	4.35	7.58	0.11	0.07	0.09	0.036	0.14	16.5	31.1	1.66	701	13.60	0.04
DD020593		2.23	44.0	3.56	7.18	0.08	0.04	0.07	0.042	0.09	12.4	20.7	0.71	301	7.66	0.02
DD020594		2.01	59.8	3.32	6.15	0.08	0.07	0.13	0.040	0.10	10.6	21.6	1.02	499	8.59	0.04
DD020595		1.97	33.5	2.72	5.03	0.06	0.03	0.08	0.028	0.08	9.8	16.6	0.76	856	4.51	0.04
DD020596		2.10	38.1	3.42	4.99	0.05	0.03	0.07	0.042	0.08	14.0	16.3	0.85	677	2.41	0.02
DD020597		7.25	43.1	3.52	6.62	<0.05	0.03	0.04	0.032	0.08	10.9	21.7	0.94	430	2.84	0.03
DD020598		6.76	43.5	3.49	7.12	0.06	0.03	0.07	0.030	0.11	13.6	22.3	1.17	441	2.11	0.07
DD020599		9.40	32.9	4.85	16.95	0.09	0.02	0.03	0.036	0.53	17.0	45.9	2.09	541	1.51	0.24
DD020600		2.41	42.3	3.37	10.40	<0.05	0.06	0.06	0.049	0.11	11.5	27.9	1.58	349	5.98	0.03
DD025751		2.78	35.1	2.60	4.45	0.06	0.06	0.05	0.044	0.09	12.8	16.5	3.12	390	3.46	0.03
DD025752		1.71	26.9	2.13	3.26	0.05	0.05	0.06	0.031	0.08	10.8	11.9	2.97	393	2.50	0.03
DD025753		2.31	59.7	3.37	4.34	0.06	0.06	0.07	0.047	0.09	17.3	17.9	0.84	615	2.94	0.02
DD025754		2.83	30.3	3.07	4.71	0.05	0.05	0.05	0.046	0.11	14.1	19.2	1.23	441	2.55	0.02
DD025755		3.41	34.5	2.96	4.83	<0.05	0.06	0.09	0.052	0.12	12.9	18.7	1.18	623	2.42	0.02
DD025756		3.73	32.5	2.94	5.27	0.05	0.06	0.06	0.042	0.11	12.1	18.2	1.97	652	2.06	0.02
DD025757		3.05	23.9	2.05	3.39	<0.05	0.06	0.04	0.033	0.10	10.5	13.7	6.22	476	3.68	0.02
DD025758		3.11	24.7	1.86	3.14	<0.05	0.05	0.04	0.026	0.08	8.9	11.6	7.76	1200	2.47	0.02
DD025759		5.62	24.0	1.86	3.83	<0.05	0.05	0.04	0.033	0.11	9.1	13.7	6.78	306	2.00	0.02
DD025760		2.49	23.2	1.60	3.84	<0.05	0.06	0.03	0.028	0.09	9.8	12.4	7.55	326	2.59	0.01

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
DD020661		0.95	70.6	870	21.9	14.8	0.008	0.08	2.91	3.0	3.4	2.5	32.4	<0.01	0.06	1.6
DD020662		0.97	83.9	930	20.1	14.0	0.009	0.08	2.04	3.1	2.7	1.5	32.8	<0.01	0.05	1.5
DD020663		1.14	114.5	1060	26.0	15.2	0.007	0.06	2.64	4.2	2.8	1.5	33.2	<0.01	0.07	2.2
DD020664		0.60	22.9	550	31.2	14.1	0.003	0.05	2.29	2.2	1.4	1.4	65.6	<0.01	0.04	0.8
DD020665		0.58	17.7	460	27.5	12.0	0.001	0.04	1.01	2.1	1.2	0.6	56.5	<0.01	0.04	1.0
DD020666		0.43	5.8	280	6.6	6.3	<0.001	0.03	0.30	1.5	0.5	0.2	66.7	<0.01	0.02	0.6
DD020667		0.28	4.5	120	3.0	3.3	0.001	0.02	0.34	1.3	0.4	0.3	58.2	<0.01	0.02	0.8
DD020668		0.95	53.3	880	34.7	16.2	0.002	0.04	2.06	6.3	1.3	1.5	34.3	<0.01	0.06	3.8
DD020669		0.27	6.8	190	5.6	7.3	0.027	0.14	0.39	1.3	7.3	0.4	85.9	<0.01	0.01	0.9
DD020670		1.22	32.5	700	16.5	17.7	0.002	0.05	1.03	3.9	1.3	0.9	55.5	<0.01	0.04	1.4
DD020571		0.71	66.1	910	44.3	14.2	0.001	0.05	2.67	3.4	2.8	2.1	32.1	<0.01	0.08	2.4
DD020572		0.69	59.7	1320	63.7	15.2	0.001	0.06	4.31	4.3	2.5	5.0	38.7	<0.01	0.07	2.3
DD020573		0.57	45.1	1120	78.0	16.5	0.001	0.06	4.11	3.5	2.3	3.2	38.2	<0.01	0.08	1.8
DD020574		0.55	93.8	1940	65.5	17.0	0.002	0.07	17.85	2.5	2.7	66.4	73.6	0.01	0.07	1.1
DD020575		0.40	117.0	2350	21.5	72.3	0.004	0.13	6.21	1.9	4.0	136.5	116.0	0.01	0.06	1.1
DD020576		0.68	49.3	1440	39.1	15.7	0.003	0.06	4.28	3.6	3.4	3.8	29.7	<0.01	0.07	1.3
DD020577		1.09	28.4	590	40.4	13.4	<0.001	0.04	2.68	2.5	2.0	2.6	15.7	<0.01	0.07	1.4
DD020578		0.85	43.9	660	43.4	9.3	0.001	0.05	3.46	2.2	2.7	2.4	17.2	<0.01	0.08	0.7
DD020579		0.95	47.7	700	35.0	11.4	<0.001	0.04	3.14	2.6	2.2	1.5	16.8	0.01	0.09	0.5
DD020580		0.94	29.5	480	27.6	12.1	<0.001	0.03	2.27	2.2	2.8	2.0	17.4	<0.01	0.07	0.6
DD020591		0.96	66.7	1050	20.2	15.5	0.011	0.17	3.82	3.0	11.2	0.7	45.0	<0.01	0.06	0.8
DD020592		2.35	115.5	1470	20.6	26.5	0.003	0.06	2.71	6.2	2.1	0.7	45.2	<0.01	0.05	3.6
DD020593		1.14	63.8	720	22.7	19.4	0.001	0.06	2.36	4.9	1.5	0.7	21.5	<0.01	0.07	2.5
DD020594		0.87	78.3	990	23.0	18.7	0.002	0.08	2.32	4.8	2.1	0.6	46.5	<0.01	0.07	1.7
DD020595		0.99	47.1	830	19.4	22.2	0.011	0.13	1.65	2.9	4.0	0.5	59.7	<0.01	0.03	1.2
DD020596		1.23	39.6	810	22.2	16.0	0.001	0.03	1.37	4.1	0.9	0.5	26.5	<0.01	0.03	2.3
DD020597		1.86	38.5	740	16.1	25.5	0.002	0.08	0.83	4.5	1.3	0.7	27.4	<0.01	0.05	2.2
DD020598		1.40	47.1	1130	17.1	24.1	0.003	0.09	0.81	5.8	2.5	0.6	33.4	<0.01	0.04	2.0
DD020599		3.00	28.0	1190	10.9	47.0	0.001	0.06	0.45	11.9	1.2	1.0	59.2	<0.01	0.04	3.8
DD020600		1.38	75.3	650	23.1	26.9	0.001	0.03	1.68	6.4	1.6	0.9	33.7	<0.01	0.05	3.7
DD025751		1.19	40.4	820	34.9	18.8	0.001	0.04	2.32	3.5	1.0	1.7	39.6	<0.01	0.06	2.6
DD025752		0.87	30.9	810	29.1	11.4	0.001	0.03	1.83	2.6	0.7	1.3	46.1	<0.01	0.04	2.6
DD025753		1.23	40.7	940	36.6	19.7	0.001	0.06	2.05	3.0	1.2	1.9	22.1	<0.01	0.07	2.0
DD025754		0.93	36.7	460	32.9	23.6	0.001	0.04	1.78	3.6	1.1	1.4	19.6	<0.01	0.06	2.3
DD025755		0.93	37.8	910	31.1	32.8	0.001	0.08	1.60	3.0	1.1	1.3	21.7	<0.01	0.04	1.6
DD025756		1.02	35.7	890	26.4	25.4	0.001	0.07	1.26	3.1	0.7	1.2	26.6	<0.01	0.03	1.7
DD025757		0.77	32.9	600	26.8	27.9	0.002	0.03	1.37	2.5	0.4	1.2	47.3	<0.01	0.03	3.2
DD025758		0.71	23.8	500	17.0	22.9	0.001	0.02	0.94	2.3	0.6	0.8	61.6	<0.01	0.02	2.0
DD025759		0.76	27.1	520	17.4	29.8	0.003	0.04	0.77	2.4	0.6	1.0	52.6	<0.01	0.02	2.0
DD025760		0.70	27.4	460	18.6	19.4	0.001	0.02	1.10	2.4	0.3	0.7	61.5	<0.01	0.03	2.2

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
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 Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020661		0.041	0.61	2.02	72	0.41	7.08	356	1.7
DD020662		0.045	0.63	2.18	67	1.52	7.30	444	1.3
DD020663		0.056	0.86	3.50	84	0.56	10.90	566	2.1
DD020664		0.032	0.26	3.55	36	0.73	5.29	355	0.8
DD020665		0.035	0.29	2.66	31	0.45	5.22	181	0.9
DD020666		0.026	0.17	0.78	17	0.17	2.96	75	0.6
DD020667		0.017	0.22	0.98	8	0.20	2.12	37	0.6
DD020668		0.045	0.42	2.14	66	0.66	12.05	209	3.0
DD020669		0.016	0.27	5.96	11	2.70	3.01	91	0.7
DD020670		0.066	0.37	1.96	51	0.75	7.95	159	1.3
DD020571		0.023	0.56	1.96	66	1.99	10.45	450	2.7
DD020572		0.025	0.65	2.51	89	1.55	13.50	463	2.4
DD020573		0.017	0.46	3.83	70	0.78	10.95	275	2.2
DD020574		0.032	0.70	3.87	162	9.98	26.8	1060	1.2
DD020575		0.023	1.12	9.45	162	20.8	29.8	2650	1.1
DD020576		0.026	0.55	5.13	90	1.55	10.45	397	1.4
DD020577		0.032	0.39	1.31	91	1.07	4.25	186	<0.5
DD020578		0.030	0.51	1.44	111	0.91	5.25	274	<0.5
DD020579		0.041	0.62	1.33	163	0.66	5.63	205	<0.5
DD020580		0.033	0.40	1.31	96	1.08	4.14	142	<0.5
DD020591		0.035	0.48	4.87	59	0.12	6.88	301	1.5
DD020592		0.079	0.91	5.90	170	0.28	11.30	620	2.5
DD020593		0.038	0.34	2.65	154	0.27	8.34	249	1.3
DD020594		0.041	0.27	6.11	198	0.23	11.50	313	2.4
DD020595		0.042	0.28	4.92	88	0.16	7.50	176	1.3
DD020596		0.048	0.17	1.42	57	0.13	9.65	145	1.3
DD020597		0.072	0.34	3.19	73	0.15	7.41	109	1.3
DD020598		0.085	0.37	1.95	83	0.10	9.78	78	1.0
DD020599		0.260	0.52	0.92	126	0.09	8.68	119	1.0
DD020600		0.059	0.33	4.64	294	0.27	8.50	264	2.6
DD025751		0.042	0.42	1.15	54	2.12	9.22	237	2.3
DD025752		0.035	0.26	1.02	43	2.29	7.68	202	2.1
DD025753		0.032	0.33	2.50	47	2.14	10.25	241	1.9
DD025754		0.036	0.32	1.41	51	3.34	7.83	216	2.1
DD025755		0.031	0.44	1.79	49	2.42	8.56	239	1.9
DD025756		0.042	0.48	1.35	50	2.02	8.13	213	1.7
DD025757		0.031	0.41	0.89	32	9.73	7.88	214	2.0
DD025758		0.030	0.38	0.67	26	9.96	6.01	123	1.7
DD025759		0.034	0.36	0.97	27	5.70	5.90	168	1.4
DD025760		0.035	0.36	0.72	28	2.86	6.23	127	2.2

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD025761		0.24	0.006	0.37	1.53	17.5	<0.2	<10	250	0.67	0.70	5.36	1.22	26.8	10.5	26
DD025762		0.30	0.005	0.35	1.18	19.5	<0.2	<10	180	0.55	0.89	8.32	1.57	22.9	9.7	21
DD025763		0.22	0.008	0.40	1.80	18.5	<0.2	<10	280	0.84	0.92	4.46	1.59	26.9	11.7	29
DD025764		0.12	0.008	0.36	1.62	17.4	<0.2	<10	360	0.61	0.70	2.16	1.29	18.55	10.8	31
DD025765		0.15	0.003	0.24	1.17	12	<0.2	<10	150	0.48	0.50	11.10	1.13	13.65	6.2	18
DD025766		0.25	0.003	0.19	1.12	14	<0.2	<10	170	0.43	0.50	12.55	1.00	11.90	6.0	16
DD025767		0.34	0.001	0.04	0.30	5	<0.2	<10	70	0.06	0.05	19.40	0.19	4.76	1.2	3
DD025768		0.26	0.004	0.17	1.17	8	<0.2	<10	120	0.35	0.44	13.35	0.46	14.15	6.7	17
DD025769		0.28	0.003	0.12	1.00	7	<0.2	<10	110	0.24	0.26	14.85	0.43	12.75	4.5	13
DD025770		0.18	0.005	0.21	1.23	17.3	<0.2	<10	270	0.52	0.61	1.02	4.34	23.9	12.4	32
DD025771		0.21	0.007	0.50	1.49	26.2	<0.2	<10	440	0.54	0.93	1.30	7.55	22.0	13.9	39
DD025772		0.25	0.006	0.52	1.44	15.9	<0.2	<10	500	0.56	0.84	0.78	7.04	23.0	9.6	42
DD025773		0.13	0.016	0.29	1.42	18.4	<0.2	<10	310	0.50	0.87	1.23	4.52	18.70	13.0	36
DD025774		0.13	0.007	0.64	1.68	27.2	<0.2	<10	350	0.66	0.75	1.66	2.59	22.8	13.3	44
DD025775		0.13	0.006	0.37	1.79	22.2	<0.2	<10	340	0.55	0.74	0.87	12.40	22.1	18.7	48
DD025776		0.13	0.007	0.62	1.37	15.6	<0.2	<10	270	0.51	0.54	0.42	4.99	24.1	8.6	37
DD025777		0.20	0.002	0.18	1.33	17.5	<0.2	<10	190	0.37	1.28	0.10	2.55	24.2	6.6	43
DD025778		0.15	0.005	0.23	1.30	17.8	<0.2	<10	230	0.37	0.54	0.90	1.47	23.9	11.0	34
DD025779		0.23	0.007	0.34	2.34	16.5	<0.2	<10	70	0.74	0.38	0.15	0.48	18.30	11.2	31
DD025901		0.34	0.015	0.17	0.26	15	<0.2	<10	120	0.32	3.03	18.05	0.88	5.31	2.5	5
DD025902		0.33	0.002	0.12	0.30	7	<0.2	<10	220	0.29	0.64	18.15	3.47	5.79	2.1	2
DD025903		0.31	0.004	0.27	0.15	11	<0.2	<10	310	0.21	2.26	19.60	0.73	4.66	1.5	2
DD025904		0.31	0.002	0.42	1.03	26	<0.2	<10	230	0.52	1.58	11.30	1.42	15.15	5.5	15
DD025905		0.31	0.026	0.59	1.35	32.0	<0.2	<10	480	0.61	14.10	5.97	2.02	17.75	6.5	26
DD025906		0.26	0.006	0.25	0.67	27	<0.2	<10	310	0.41	1.82	13.95	1.04	10.25	4.0	12
DD025907		0.32	0.013	0.93	1.67	32.3	<0.2	<10	880	0.89	1.66	1.47	2.88	29.0	11.6	27
DD025908		0.24	0.008	0.64	1.40	33.8	<0.2	<10	690	0.73	1.80	0.51	1.41	25.6	9.3	28
DD025909		0.24	0.015	0.94	1.44	52.0	<0.2	<10	790	0.69	3.50	2.07	4.19	22.1	9.0	27
DD025910		0.29	0.010	0.50	1.12	38.1	<0.2	<10	550	0.49	3.18	7.29	4.91	15.20	8.4	22
DD025911		0.28	0.007	0.34	1.53	21.1	<0.2	<10	250	0.59	0.90	5.09	1.30	18.25	10.9	32
DD025912		0.38	0.069	0.42	0.93	44	<0.2	<10	170	0.34	2.92	10.25	1.90	13.95	7.6	17
DD025913		0.29	0.006	0.21	0.65	13	<0.2	<10	120	0.32	0.61	12.90	0.72	12.00	5.3	11
DD025914		0.41	0.006	0.47	1.87	19.9	<0.2	<10	470	0.39	0.70	0.66	11.85	20.5	19.2	79
DD025915		0.36	0.007	0.65	1.70	31.2	<0.2	<10	440	0.53	0.81	0.54	7.75	25.9	14.1	59
DD025916		0.30	0.004	0.40	1.59	16.6	<0.2	<10	250	0.62	0.35	1.68	1.48	21.4	13.6	40
DD025917		0.23	0.004	0.40	1.64	17.6	<0.2	<10	220	0.65	0.32	1.04	2.35	23.1	15.8	41
DD025918		0.33	0.006	0.58	2.71	25.9	<0.2	<10	210	1.32	0.36	0.89	2.86	20.6	15.3	62
DD025919		0.29	0.010	0.57	1.88	17.9	<0.2	<10	350	0.91	0.33	0.85	2.04	25.9	14.4	44
DD025920		0.21	0.009	0.39	2.31	18.9	<0.2	<10	210	0.87	0.79	1.26	1.23	26.4	15.6	44
DD025921		0.21	0.005	0.20	3.51	11.7	<0.2	<10	730	0.40	1.05	2.18	1.18	16.45	26.5	118

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025761		3.13	37.3	2.79	4.62	0.07	0.10	0.07	0.039	0.16	14.8	16.2	3.87	442	2.89	0.02
DD025762		2.72	35.9	2.42	3.58	0.06	0.09	0.06	0.039	0.14	12.1	13.2	5.05	329	3.73	0.02
DD025763		6.71	34.5	2.71	5.49	0.06	0.05	0.06	0.041	0.11	14.8	22.2	3.78	576	2.69	0.02
DD025764		2.97	32.0	2.73	5.02	0.05	0.05	0.06	0.040	0.09	10.2	17.7	1.37	415	3.12	0.03
DD025765		4.20	15.3	1.62	3.07	<0.05	0.03	0.04	0.024	0.06	7.6	12.4	7.51	243	4.16	0.02
DD025766		5.01	14.9	1.50	2.97	<0.05	0.03	0.03	0.024	0.06	6.6	12.3	8.46	241	4.52	0.02
DD025767		0.75	2.8	0.29	0.68	<0.05	<0.02	0.01	<0.005	0.08	2.5	4.5	12.35	67	0.56	0.01
DD025768		3.18	15.5	1.51	3.25	<0.05	0.03	0.04	0.017	0.06	7.7	17.2	8.83	238	2.72	0.03
DD025769		1.31	10.3	0.99	3.02	<0.05	0.03	0.02	0.009	0.03	6.7	12.6	9.81	190	1.63	0.02
DD025770		3.09	30.1	2.60	4.05	0.06	0.05	0.05	0.040	0.07	12.4	14.3	0.71	388	4.21	0.03
DD025771		2.92	48.4	3.04	4.84	0.06	0.06	0.09	0.064	0.09	12.2	15.8	0.87	473	7.34	0.03
DD025772		3.21	55.2	2.40	5.07	0.06	0.05	0.09	0.061	0.08	12.9	16.8	0.74	139	5.83	0.02
DD025773		2.34	29.9	2.84	4.72	<0.05	0.03	0.06	0.036	0.08	9.9	14.1	0.62	532	5.76	0.02
DD025774		2.82	40.4	3.39	5.43	0.06	0.05	0.10	0.047	0.12	12.7	15.9	0.85	436	8.69	0.02
DD025775		4.03	36.6	3.49	6.39	<0.05	0.03	0.09	0.054	0.10	12.0	22.0	0.84	757	15.70	0.02
DD025776		2.61	28.4	2.66	4.36	<0.05	0.03	0.07	0.048	0.07	13.0	14.4	0.56	389	8.58	0.01
DD025777		6.34	30.1	3.08	7.53	0.06	<0.02	0.02	0.042	0.07	12.5	13.6	0.45	314	9.70	0.01
DD025778		4.11	25.3	2.92	4.52	<0.05	0.02	0.04	0.039	0.07	12.5	15.2	0.67	360	5.15	0.02
DD025779		1.49	39.8	3.59	4.77	0.05	0.09	0.04	0.058	0.04	11.9	23.5	1.55	727	2.26	0.01
DD025901		0.72	7.8	0.49	0.74	<0.05	<0.02	0.01	0.019	0.02	4.5	5.0	11.60	362	4.53	0.01
DD025902		1.18	6.2	0.57	0.88	<0.05	0.03	0.02	0.023	0.02	4.7	6.9	11.35	469	1.20	0.01
DD025903		1.49	8.5	0.62	0.72	0.06	0.02	0.01	0.022	0.06	4.6	8.0	12.05	513	1.15	0.01
DD025904		3.29	17.6	1.50	3.10	<0.05	0.04	0.07	0.068	0.04	9.8	16.2	7.12	385	2.29	0.01
DD025905		3.83	37.7	2.38	3.92	0.06	0.06	0.08	0.086	0.06	11.8	17.4	3.84	675	3.37	0.01
DD025906		1.36	20.9	1.47	1.94	0.05	0.05	0.07	0.037	0.04	7.0	9.1	8.52	653	2.51	0.01
DD025907		1.91	89.5	3.11	4.29	0.09	0.09	0.15	0.092	0.08	16.5	16.0	0.96	413	6.82	0.01
DD025908		1.69	79.4	2.90	3.42	0.09	0.10	0.11	0.100	0.07	14.7	12.7	0.46	253	10.45	0.01
DD025909		2.40	61.9	2.88	4.04	0.09	0.07	0.12	0.129	0.07	13.2	15.3	1.06	565	7.61	0.01
DD025910		3.23	38.8	2.27	3.31	0.06	0.04	0.11	0.104	0.05	10.0	14.5	4.39	628	2.88	0.02
DD025911		2.24	37.7	2.67	4.82	0.07	0.06	0.07	0.042	0.07	10.9	17.1	3.53	523	3.49	0.04
DD025912		2.14	43.4	1.93	2.92	0.05	0.04	0.10	0.048	0.05	8.1	12.1	6.41	552	2.85	0.02
DD025913		1.12	21.5	1.32	2.02	<0.05	0.03	0.05	0.026	0.04	6.9	9.3	7.94	411	1.74	0.02
DD025914		4.82	65.9	3.36	6.04	0.08	0.07	0.11	0.050	0.13	12.4	20.5	1.25	848	8.14	0.02
DD025915		4.89	74.4	3.60	5.84	0.10	0.14	0.17	0.083	0.16	15.0	18.9	0.93	467	11.90	0.02
DD025916		2.80	41.9	3.09	5.37	0.08	0.06	0.10	0.039	0.10	12.7	21.9	1.24	527	5.17	0.03
DD025917		3.62	35.9	3.22	5.60	0.08	0.06	0.10	0.039	0.10	13.3	23.3	0.92	788	7.02	0.02
DD025918		6.83	46.4	3.52	9.13	0.09	0.08	0.07	0.056	0.19	11.8	36.9	1.43	675	20.6	0.06
DD025919		2.02	44.5	3.11	6.45	0.08	0.06	0.09	0.042	0.08	13.6	21.2	0.79	413	10.50	0.02
DD025920		4.39	45.4	3.59	7.26	0.11	0.10	0.06	0.047	0.19	14.5	24.5	1.27	632	5.51	0.09
DD025921		46.0	65.4	5.53	11.95	0.21	0.08	0.04	0.036	1.30	9.5	50.6	3.68	796	4.47	0.06

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 29- JUN- 2012  
 Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD025761		0.90	37.7	850	36.7	30.1	0.001	0.02	1.90	4.0	0.8	1.0	40.5	<0.01	0.05	4.2
DD025762		0.72	35.7	700	33.1	21.4	0.002	0.01	2.20	3.3	1.1	1.1	53.2	<0.01	0.05	3.4
DD025763		0.87	42.0	850	31.9	34.9	0.002	0.05	1.75	3.4	1.3	1.2	37.0	<0.01	0.05	2.2
DD025764		1.16	40.1	830	27.1	23.1	0.003	0.08	1.60	3.0	1.3	1.1	29.0	<0.01	0.04	1.2
DD025765		0.52	25.5	600	15.6	15.8	0.002	0.04	0.75	1.8	0.9	0.6	54.5	<0.01	0.03	1.0
DD025766		0.49	25.4	530	14.8	14.2	0.004	0.04	0.73	1.7	0.6	0.6	60.3	<0.01	0.03	0.9
DD025767		0.13	3.7	70	1.4	4.2	<0.001	0.03	0.17	0.5	0.2	<0.2	88.0	<0.01	0.02	0.5
DD025768		0.66	24.6	440	13.8	14.4	0.001	0.02	0.66	2.4	0.3	0.5	65.4	<0.01	0.04	1.3
DD025769		0.71	15.3	450	8.9	6.8	0.002	0.02	0.48	1.8	0.4	0.3	74.2	<0.01	0.01	1.1
DD025770		1.05	60.8	800	22.7	15.4	0.008	0.06	2.53	2.6	2.5	1.2	26.8	<0.01	0.04	1.8
DD025771		1.04	90.8	900	30.1	15.8	0.010	0.08	4.21	3.0	3.7	2.1	36.2	<0.01	0.09	1.9
DD025772		1.08	86.8	920	31.2	15.3	0.006	0.06	3.70	3.2	3.6	2.5	31.7	<0.01	0.08	2.1
DD025773		1.12	62.8	840	21.7	14.3	0.003	0.09	1.91	2.7	2.7	1.0	30.0	<0.01	0.05	1.4
DD025774		1.54	57.6	1050	30.0	15.7	0.008	0.10	3.06	3.6	3.2	1.3	42.7	<0.01	0.06	1.7
DD025775		1.37	111.0	770	41.6	20.0	0.015	0.06	2.04	3.9	4.6	1.4	29.0	<0.01	0.09	1.8
DD025776		0.92	43.8	1030	110.0	13.7	0.001	0.04	1.86	2.8	2.2	1.0	17.8	<0.01	0.05	2.0
DD025777		1.03	43.0	610	42.9	27.3	0.001	0.03	1.66	2.2	2.0	1.0	14.4	<0.01	0.07	1.0
DD025778		1.05	46.4	1040	20.8	25.4	0.004	0.06	1.42	2.9	1.4	0.6	25.7	<0.01	0.05	1.8
DD025779		2.03	28.5	860	22.1	7.7	0.001	0.02	1.34	3.8	1.4	1.4	7.8	<0.01	0.06	3.8
DD025901		0.09	28.5	150	18.2	3.5	0.021	0.03	3.07	0.7	1.3	0.7	122.0	<0.01	0.02	0.5
DD025902		0.23	17.6	230	18.0	6.5	0.002	0.01	4.30	0.7	0.6	1.5	141.0	<0.01	0.02	0.4
DD025903		0.13	11.2	150	59.0	13.6	0.011	0.02	10.10	0.8	0.6	10.0	154.5	<0.01	0.02	0.5
DD025904		0.54	47.1	430	74.6	17.7	0.007	0.01	11.20	1.9	0.8	6.8	119.5	<0.01	0.04	1.3
DD025905		0.63	47.5	1110	59.9	26.5	0.002	0.03	7.67	2.6	1.7	3.4	76.4	0.01	0.07	2.1
DD025906		0.36	38.0	790	19.0	10.0	0.002	0.04	4.01	1.5	1.6	1.1	112.0	<0.01	0.04	1.0
DD025907		0.75	84.9	970	42.8	17.2	0.001	0.04	7.63	3.3	3.5	2.7	38.6	0.01	0.08	2.1
DD025908		0.70	75.2	670	37.4	12.8	0.001	0.06	5.95	2.9	6.5	3.1	41.5	0.01	0.10	2.5
DD025909		0.69	72.9	1210	55.2	21.7	0.002	0.07	11.80	2.5	4.9	5.8	45.7	0.01	0.10	1.2
DD025910		0.61	76.7	970	53.9	19.9	0.002	0.06	7.00	1.9	2.3	5.9	59.2	0.01	0.06	0.7
DD025911		1.08	50.0	800	23.6	13.1	0.001	0.03	4.79	3.8	1.2	1.5	47.1	<0.01	0.05	2.8
DD025912		0.66	46.1	620	26.3	12.6	0.002	0.02	7.64	2.3	0.9	3.5	79.8	<0.01	0.04	1.5
DD025913		0.53	21.7	500	11.0	8.1	0.002	0.01	1.51	1.6	0.5	0.9	54.8	<0.01	0.03	1.2
DD025914		1.15	141.5	920	27.3	20.0	0.002	0.02	4.21	3.7	1.6	1.5	30.1	<0.01	0.06	3.0
DD025915		0.91	121.5	1110	38.9	21.7	0.002	0.04	6.12	5.7	2.7	2.8	40.4	<0.01	0.12	5.1
DD025916		1.15	54.4	1090	24.7	18.4	0.003	0.05	2.61	3.9	2.4	0.6	40.3	<0.01	0.05	2.4
DD025917		1.23	67.4	1010	26.9	25.0	0.005	0.06	2.31	4.0	1.7	0.6	38.2	<0.01	0.05	2.7
DD025918		1.17	124.5	1060	21.2	36.6	0.002	0.05	4.08	4.9	2.6	0.6	59.8	0.01	0.07	5.3
DD025919		1.37	67.1	820	22.2	20.8	0.002	0.03	2.55	4.6	2.4	0.8	42.8	<0.01	0.06	3.5
DD025920		1.69	57.6	1420	29.1	26.1	0.002	0.03	1.81	6.4	1.4	0.6	54.0	0.01	0.06	5.7
DD025921		1.46	115.5	1300	12.5	182.5	0.001	0.04	0.86	16.6	1.5	1.1	46.6	<0.01	0.06	3.0

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025761		0.042	0.43	0.82	45	0.98	9.40	183	4.1
DD025762		0.038	0.35	0.81	39	1.10	8.22	181	4.3
DD025763		0.048	0.54	1.80	49	1.53	9.65	202	1.9
DD025764		0.046	0.29	1.62	57	0.86	6.90	198	1.7
DD025765		0.032	0.27	1.57	31	1.20	5.26	223	1.0
DD025766		0.030	0.31	2.93	28	2.15	4.51	252	0.9
DD025767		0.010	0.12	0.62	4	0.12	1.36	27	0.5
DD025768		0.035	0.26	0.89	29	2.11	5.63	95	1.2
DD025769		0.037	0.14	1.23	19	0.23	4.38	61	1.1
DD025770		0.040	0.41	3.54	60	0.56	7.47	292	1.9
DD025771		0.045	0.73	2.09	85	0.49	8.76	447	1.9
DD025772		0.046	0.75	2.98	75	0.36	9.30	415	2.1
DD025773		0.038	0.44	1.91	75	0.65	5.80	404	1.3
DD025774		0.047	0.41	2.54	73	0.53	8.72	259	2.0
DD025775		0.046	0.64	2.88	99	0.55	6.18	1140	1.1
DD025776		0.032	0.24	1.92	99	0.30	7.23	838	0.9
DD025777		0.045	0.36	1.30	284	0.61	3.26	249	<0.5
DD025778		0.041	0.28	1.34	76	0.22	5.61	230	0.9
DD025779		0.059	0.23	0.77	40	0.11	5.07	155	3.6
DD025901		0.008	0.14	1.67	76	3.16	3.86	78	0.6
DD025902		0.007	0.15	1.76	53	1.06	6.73	208	0.5
DD025903		0.007	0.20	2.32	128	2.20	5.68	51	0.5
DD025904		0.021	0.34	2.10	212	6.46	10.90	254	0.8
DD025905		0.026	0.58	4.02	199	3.91	15.00	346	1.4
DD025906		0.015	0.28	3.47	169	1.67	11.65	142	1.1
DD025907		0.026	0.49	5.87	133	0.99	19.30	397	2.4
DD025908		0.024	0.70	5.98	117	0.78	13.60	408	2.9
DD025909		0.024	0.65	5.31	122	1.41	15.55	516	1.9
DD025910		0.026	0.42	4.21	101	2.87	12.10	717	1.0
DD025911		0.047	0.35	3.31	89	0.76	9.20	171	1.9
DD025912		0.029	0.28	2.33	63	10.20	7.93	208	1.0
DD025913		0.020	0.19	2.38	35	0.38	5.14	102	0.9
DD025914		0.079	0.77	1.89	72	0.75	9.64	537	2.2
DD025915		0.068	1.32	1.44	99	0.52	11.75	466	6.8
DD025916		0.044	0.38	2.05	100	0.18	10.35	215	1.9
DD025917		0.042	0.49	2.71	98	0.16	10.55	282	2.0
DD025918		0.064	0.98	10.60	329	0.52	11.55	541	3.6
DD025919		0.039	0.33	9.49	167	0.29	11.10	252	2.2
DD025920		0.097	0.47	2.57	114	0.28	11.25	245	4.3
DD025921		0.241	3.93	2.42	150	0.16	8.48	192	2.9

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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025922		0.29	0.003	0.21	2.83	12.4	<0.2	<10	510	0.90	0.51	1.25	0.21	26.9	20.6	36
DD025923		0.24	0.002	0.07	4.61	9.5	<0.2	<10	200	1.20	0.51	0.49	0.21	23.7	15.9	46
DD025924		0.24	0.005	0.63	5.88	25.3	<0.2	<10	200	2.95	0.29	0.32	4.11	12.15	19.0	79
DD025925		0.29	0.004	0.61	2.04	12.7	<0.2	<10	190	0.78	0.25	1.39	2.78	19.30	15.2	56
DD025926		0.49	0.003	0.11	2.88	16.0	<0.2	<10	350	1.24	0.48	0.94	0.34	62.5	38.9	123
DD025927		0.26	0.004	0.48	1.66	22.5	<0.2	<10	370	0.50	0.54	0.79	3.07	23.1	22.2	53
DD025928		0.25	0.004	0.55	1.66	17.7	<0.2	<10	410	0.41	0.44	0.89	6.19	18.70	17.2	57
DD025929		0.23	0.004	0.52	1.58	18.1	<0.2	<10	340	0.55	0.53	0.79	10.50	22.2	16.4	45
DD025930		0.50	0.005	0.50	1.84	20.7	<0.2	<10	370	0.54	0.54	0.95	2.50	24.0	16.5	68
DD025931		0.29	0.003	0.25	1.61	17.1	<0.2	<10	1020	0.43	2.16	0.80	2.43	14.45	9.7	36
DD025932		0.33	0.006	0.29	1.48	20.2	<0.2	<10	480	0.49	1.85	0.30	1.88	23.7	9.8	30
DD025933		0.38	0.011	0.43	1.40	26.6	<0.2	<10	590	0.58	3.55	3.22	2.28	24.0	10.5	29
DD025934		0.42	0.009	0.88	1.39	48.4	<0.2	<10	1370	0.77	9.79	0.50	3.33	24.5	11.7	38
DD025935		0.42	0.001	0.05	0.37	58.8	<0.2	<10	40	0.08	0.86	0.05	0.31	5.32	2.6	7
DD025936		0.40	0.009	0.25	2.29	26.3	<0.2	<10	270	0.78	0.68	0.08	0.77	25.8	11.5	34
DD025937		0.23	0.001	0.19	0.16	1.3	<0.2	<10	80	0.30	0.95	2.05	1.02	8.09	2.3	2
DD025938		0.43	0.007	0.75	1.96	38.6	<0.2	<10	500	1.22	4.91	0.31	11.75	17.10	7.7	37
DD025939		0.40	0.005	0.66	1.97	25.7	<0.2	<10	690	1.15	1.90	0.23	8.17	19.30	8.4	43
DD025940		0.26	0.006	0.76	1.52	27.4	<0.2	<10	690	0.63	2.52	0.42	1.43	23.7	6.5	27
DD025941		0.39	0.008	0.47	1.40	19.7	<0.2	<10	560	0.57	1.35	0.41	4.57	30.3	10.7	29
DD025942		0.25	0.012	1.76	1.50	51.3	<0.2	<10	1080	0.63	1.79	0.53	4.96	33.8	6.7	29
DD025943		0.28	0.011	1.49	1.59	57.0	<0.2	<10	1020	0.68	1.49	0.49	3.40	31.9	7.6	29
DD025944		0.35	0.009	1.19	2.53	63.4	<0.2	<10	1530	1.22	2.14	0.55	2.96	24.2	7.6	24
DD025945		0.31	0.008	1.29	1.80	59.0	<0.2	<10	1040	0.75	1.31	0.76	11.80	25.5	10.8	26
DD025946		0.56	0.010	1.29	1.53	25.7	<0.2	<10	830	0.68	1.43	0.64	11.90	25.5	12.8	24
DD025947		0.20	0.007	1.59	1.43	36.5	<0.2	<10	1820	0.74	1.62	0.74	2.01	25.9	8.4	29
DD025948		0.48	0.007	1.78	1.56	52.9	<0.2	<10	1220	0.65	1.03	0.29	1.09	30.1	8.6	34
DD025949		0.44	0.007	1.22	1.52	26.0	<0.2	<10	950	0.73	1.21	0.35	9.90	29.1	14.9	33
DD025950		0.53	0.005	0.54	1.46	25.0	<0.2	<10	530	0.66	0.72	0.50	33.0	27.4	26.9	27
DD018959		0.12	0.006	0.34	1.30	12.0	<0.2	<10	330	0.53	0.50	0.87	1.37	19.55	9.2	27
DD018960		0.18	0.003	0.48	1.26	11.1	<0.2	<10	290	0.55	0.36	0.73	1.61	22.0	8.1	25
DD018961		0.19	0.007	0.51	1.21	18.3	<0.2	<10	410	0.56	0.61	1.01	21.8	21.6	11.2	23
DD018962		0.11	0.005	0.44	1.51	19.0	<0.2	<10	460	0.70	0.83	1.18	1.56	23.6	10.0	29
DD018963		0.16	0.012	0.37	1.11	16.4	<0.2	<10	510	0.50	0.60	2.55	3.07	13.90	7.4	21
DD018964		0.17	0.003	0.30	0.98	9.3	<0.2	<10	710	0.52	0.51	3.26	4.44	10.95	7.1	16
DD018965		0.12	0.007	0.24	1.37	18.7	<0.2	<10	310	0.57	0.83	0.61	0.89	24.4	9.6	29
DD018966		0.17	0.006	0.43	1.54	22.4	<0.2	<10	550	0.65	0.79	1.07	1.37	24.2	13.3	29
DD018967		0.24	0.008	0.68	1.39	22.1	<0.2	<10	710	0.55	0.68	1.68	2.65	22.1	10.9	28
DD018968		0.15	0.010	0.36	1.20	22.4	<0.2	<10	510	0.56	0.67	2.32	1.33	14.15	6.5	22
DD018969		0.15	0.013	0.55	1.18	25.0	<0.2	<10	460	0.55	1.10	2.01	1.56	17.60	8.1	24

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025922		8.02	40.9	3.84	9.06	0.09	0.04	0.05	0.036	0.14	14.3	28.4	1.13	741	4.89	0.10
DD025923		8.38	29.0	4.82	14.85	0.09	0.06	0.04	0.043	0.26	12.7	40.3	1.68	309	1.79	0.06
DD025924		4.67	49.5	4.13	15.95	0.10	0.11	0.08	0.053	0.30	5.8	37.8	2.61	277	11.70	0.03
DD025925		3.26	44.3	3.24	6.96	0.08	0.06	0.11	0.041	0.11	11.1	25.2	1.13	421	11.90	0.07
DD025926		18.00	42.4	6.61	9.55	0.13	0.04	0.03	0.055	0.16	34.7	29.1	2.14	1040	2.90	0.02
DD025927		4.85	50.2	3.28	5.73	0.10	0.05	0.09	0.050	0.10	13.8	22.2	0.93	519	7.42	0.02
DD025928		4.83	58.6	3.03	5.51	0.09	0.04	0.13	0.041	0.08	11.4	21.5	0.99	743	7.62	0.01
DD025929		5.22	78.8	3.20	4.85	0.09	0.06	0.13	0.059	0.07	13.5	25.3	0.75	372	6.85	0.02
DD025930		3.17	58.2	3.76	5.76	0.09	0.09	0.12	0.049	0.13	13.3	20.5	1.33	663	8.00	0.03
DD025931		2.50	32.3	2.59	5.91	0.06	0.03	0.05	0.095	0.05	8.7	26.8	0.56	319	5.37	0.01
DD025932		3.19	26.8	2.74	5.41	0.06	0.02	0.05	0.063	0.05	13.5	20.5	0.47	444	5.16	<0.01
DD025933		2.50	57.0	2.79	4.08	0.07	0.09	0.12	0.077	0.09	14.3	16.0	2.28	643	5.22	0.01
DD025934		3.59	94.7	3.05	4.35	0.09	0.07	0.16	0.796	0.12	15.4	14.7	0.62	619	8.45	0.01
DD025935		1.15	7.6	2.35	3.28	<0.05	<0.02	0.01	0.013	0.01	3.0	3.0	0.07	83	6.84	<0.01
DD025936		3.18	31.3	3.82	5.32	0.07	0.07	0.06	0.067	0.05	13.4	22.2	0.44	265	6.19	<0.01
DD025937		0.53	19.6	1.65	0.56	<0.05	0.02	0.04	0.007	0.01	4.9	2.8	0.11	395	0.63	<0.01
DD025938		3.41	81.2	3.37	4.79	0.06	0.06	0.09	0.227	0.09	8.5	19.2	0.44	968	7.19	0.02
DD025939		3.50	52.9	3.02	5.74	0.05	0.07	0.09	0.104	0.07	10.3	23.0	0.47	474	4.12	0.01
DD025940		1.88	33.9	2.49	3.96	0.05	0.07	0.14	0.091	0.06	11.9	13.9	0.42	376	4.76	0.01
DD025941		1.46	61.4	2.83	4.33	0.05	0.08	0.10	0.061	0.06	15.7	14.7	0.51	398	4.50	0.01
DD025942		3.49	72.3	2.47	4.67	0.06	0.04	0.33	0.117	0.10	18.8	15.0	0.34	278	12.30	0.01
DD025943		3.38	73.2	2.81	4.33	0.05	0.07	0.30	0.129	0.09	17.1	14.2	0.33	426	12.15	0.01
DD025944		3.04	100.0	3.48	3.51	0.05	0.10	0.26	0.162	0.07	13.2	14.1	0.31	256	13.90	0.01
DD025945		2.66	93.0	3.66	3.76	0.05	0.08	0.25	0.107	0.08	13.4	15.1	0.37	342	9.43	0.01
DD025946		2.20	81.8	2.28	3.20	0.06	0.08	0.22	0.092	0.06	12.7	14.0	0.38	194	6.66	0.01
DD025947		1.38	58.2	2.96	4.10	0.05	0.08	0.15	0.059	0.07	13.1	19.5	0.49	482	6.64	0.02
DD025948		2.35	63.8	3.12	4.64	0.05	0.06	0.41	0.093	0.09	17.5	15.5	0.45	391	19.05	0.01
DD025949		2.20	117.5	2.32	4.46	0.06	0.07	0.24	0.060	0.08	14.5	17.5	0.51	154	7.35	0.01
DD025950		3.72	6940	10.30	3.93	0.07	0.06	0.11	0.051	0.09	13.6	16.0	0.47	491	22.5	0.02
DD018959		1.19	30.4	2.41	3.78	0.05	0.06	0.09	0.031	0.06	10.3	14.6	0.45	1240	2.76	0.02
DD018960		1.57	21.4	1.73	3.48	<0.05	0.05	0.05	0.029	0.05	11.9	16.9	0.49	144	2.23	0.03
DD018961		1.52	54.7	2.23	3.30	0.05	0.06	0.12	0.040	0.06	11.7	16.2	0.60	364	2.17	0.02
DD018962		1.48	31.4	2.95	4.25	0.05	0.09	0.11	0.044	0.11	12.2	17.9	0.65	550	3.34	0.02
DD018963		1.37	29.6	2.13	3.16	0.05	0.06	0.09	0.034	0.08	7.7	12.0	0.62	680	2.69	0.02
DD018964		1.22	28.7	1.63	2.54	0.05	0.05	0.09	0.027	0.05	6.1	7.4	0.54	916	1.75	0.02
DD018965		1.39	23.2	2.76	4.05	<0.05	0.09	0.05	0.045	0.07	11.5	15.5	0.67	455	3.34	0.02
DD018966		2.36	22.8	2.87	4.53	<0.05	0.04	0.06	0.046	0.07	11.2	16.8	0.78	944	3.57	0.02
DD018967		1.66	42.2	2.53	4.04	0.05	0.05	0.12	0.039	0.08	10.4	14.3	0.66	956	3.70	0.02
DD018968		2.21	25.3	1.93	3.43	0.05	0.05	0.06	0.033	0.07	7.8	11.7	0.91	326	2.13	0.02
DD018969		2.02	26.9	2.16	3.62	0.05	0.05	0.10	0.045	0.08	8.8	13.1	0.92	471	2.33	0.02

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD025922		2.49	44.5	870	19.4	32.8	0.002	0.06	0.87	7.2	2.1	0.8	52.3	0.01	0.04	3.0
DD025923		4.80	35.2	800	18.4	33.4	<0.001	0.03	0.60	8.6	0.7	1.1	26.3	0.01	0.04	5.6
DD025924		1.83	110.0	800	18.3	31.3	0.001	0.12	3.20	8.0	3.7	0.8	34.8	0.02	0.09	6.3
DD025925		1.20	109.0	900	20.5	31.4	0.004	0.07	2.28	5.0	2.7	0.8	61.7	0.01	0.05	2.7
DD025926		2.60	150.5	2850	20.9	41.3	0.001	0.02	5.28	7.7	0.9	1.8	54.1	0.01	0.05	6.8
DD025927		1.51	121.0	920	27.4	17.5	0.003	0.05	4.88	3.6	6.0	1.2	36.8	<0.01	0.07	2.4
DD025928		1.07	114.0	970	26.3	19.3	0.013	0.08	3.96	3.2	5.1	1.1	35.0	<0.01	0.06	1.5
DD025929		0.79	155.0	1030	25.5	23.8	0.005	0.05	3.66	3.0	2.3	1.7	31.9	0.01	0.07	1.3
DD025930		1.69	81.6	1220	29.4	13.6	0.001	0.05	3.80	4.3	2.7	1.1	37.1	<0.01	0.07	4.9
DD025931		0.75	58.6	870	17.9	13.0	0.004	0.05	1.16	2.4	3.0	2.8	28.9	<0.01	0.05	1.1
DD025932		0.91	39.6	620	23.5	15.4	0.001	0.02	1.54	2.8	1.5	4.6	22.3	<0.01	0.05	2.2
DD025933		0.79	61.0	1150	32.3	15.8	0.002	0.02	3.67	4.0	1.7	5.3	45.3	<0.01	0.06	4.1
DD025934		0.72	92.0	1720	62.2	27.0	0.001	0.04	10.15	4.8	3.8	40.4	48.0	0.01	0.13	3.9
DD025935		0.85	9.3	220	7.9	4.1	<0.001	<0.01	0.88	0.7	0.7	0.6	2.7	<0.01	0.05	0.5
DD025936		1.35	46.2	530	61.3	14.5	<0.001	0.02	3.96	3.7	2.6	1.5	17.2	0.01	0.08	4.5
DD025937		0.08	13.1	1820	2.5	4.2	0.001	0.10	0.27	0.4	1.3	0.4	14.5	<0.01	0.08	0.8
DD025938		0.60	115.5	770	139.5	14.0	0.002	0.05	4.71	3.3	3.7	3.4	24.8	<0.01	0.09	2.6
DD025939		0.66	96.7	630	83.7	13.0	<0.001	0.03	3.08	4.3	1.5	1.8	17.1	<0.01	0.07	2.2
DD025940		0.56	45.3	1070	93.7	11.4	0.002	0.04	3.00	2.6	3.3	2.3	25.2	<0.01	0.05	1.5
DD025941		0.78	61.4	1040	42.3	9.6	0.001	0.02	2.99	4.5	1.1	1.6	27.1	<0.01	0.05	3.1
DD025942		0.53	56.0	1320	85.6	17.7	0.009	0.10	6.61	2.7	7.5	6.8	44.2	<0.01	0.10	0.9
DD025943		0.53	61.3	1310	87.8	14.3	0.006	0.10	6.42	2.9	5.4	10.5	40.6	<0.01	0.14	1.2
DD025944		0.54	179.0	1250	153.5	13.1	0.004	0.09	8.24	3.5	6.8	9.4	43.9	<0.01	0.08	1.8
DD025945		0.57	99.6	1240	100.5	14.1	0.012	0.08	5.14	3.1	4.7	5.2	36.5	<0.01	0.10	1.5
DD025946		0.55	90.4	1000	119.5	12.4	0.006	0.07	4.16	2.9	7.6	4.5	33.6	<0.01	0.07	1.9
DD025947		0.62	47.9	1120	183.5	10.6	0.003	0.07	14.15	3.2	4.2	3.1	38.3	<0.01	0.07	1.7
DD025948		0.59	37.5	1320	206	13.2	0.001	0.05	5.27	3.4	4.7	3.4	48.2	<0.01	0.10	3.0
DD025949		0.77	78.0	1130	104.5	15.9	0.008	0.09	3.27	3.9	6.2	2.4	29.5	<0.01	0.06	3.2
DD025950		0.76	162.0	1060	53.2	18.8	0.004	0.05	9.36	3.6	11.0	1.3	22.9	<0.01	0.05	3.4
DD018959		0.67	29.9	930	32.4	9.3	0.004	0.07	1.04	2.4	7.9	0.8	26.7	<0.01	0.03	1.5
DD018960		0.62	30.9	890	34.8	10.2	0.006	0.07	0.94	2.7	1.8	0.9	30.9	<0.01	0.02	2.8
DD018961		0.60	52.9	970	42.5	12.1	0.006	0.06	1.61	2.6	2.7	1.5	27.9	<0.01	0.05	2.5
DD018962		0.72	39.0	650	37.7	16.3	0.007	0.08	1.91	3.0	1.7	1.0	22.9	<0.01	0.03	1.8
DD018963		0.62	31.8	1230	23.9	14.3	0.019	0.18	1.92	1.5	6.3	0.8	34.2	<0.01	0.04	0.7
DD018964		0.50	23.3	1360	17.5	10.5	0.012	0.24	1.60	0.8	6.7	0.8	36.5	<0.01	0.01	0.4
DD018965		0.78	33.3	670	33.0	10.7	0.001	0.03	1.49	3.0	0.8	0.9	18.1	<0.01	0.04	2.6
DD018966		0.73	29.5	960	31.9	15.9	0.002	0.07	1.40	2.4	2.1	1.1	24.2	<0.01	0.04	1.1
DD018967		0.66	33.2	1220	37.2	16.9	0.001	0.10	2.05	1.8	3.3	1.4	31.5	<0.01	0.05	0.7
DD018968		0.65	23.4	990	23.1	12.9	0.001	0.15	1.69	1.5	2.3	1.2	28.6	<0.01	0.02	0.6
DD018969		0.65	26.8	930	29.3	18.5	<0.001	0.12	1.62	1.8	2.2	1.5	25.0	<0.01	0.04	0.8

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025922		0.098	0.65	1.56	90	0.16	11.25	90	0.9
DD025923		0.221	0.67	1.01	123	0.21	7.00	109	2.1
DD025924		0.109	0.56	7.25	338	0.57	10.15	421	4.6
DD025925		0.050	0.39	15.05	134	0.25	9.59	419	1.8
DD025926		0.059	1.55	1.15	104	0.16	16.85	149	0.5
DD025927		0.060	0.66	1.57	76	0.21	10.15	438	1.4
DD025928		0.051	0.85	1.71	68	0.19	9.95	429	1.1
DD025929		0.038	1.03	2.59	59	0.25	13.70	857	1.2
DD025930		0.072	0.64	1.77	101	0.36	10.55	240	3.8
DD025931		0.024	0.45	2.83	113	1.17	5.29	321	0.8
DD025932		0.027	0.35	1.85	79	0.80	6.63	229	0.5
DD025933		0.038	0.55	2.19	88	1.33	14.20	297	2.9
DD025934		0.039	0.91	4.30	236	1.46	26.2	641	2.5
DD025935		0.022	0.10	0.44	39	0.95	1.01	39	<0.5
DD025936		0.029	0.57	1.31	80	0.52	5.71	185	2.4
DD025937		<0.005	0.30	0.67	7	0.47	6.09	40	0.6
DD025938		0.024	0.95	2.73	144	1.14	15.75	1200	3.0
DD025939		0.026	0.73	2.13	111	0.69	17.80	856	1.9
DD025940		0.018	0.55	4.30	101	0.97	8.69	345	1.8
DD025941		0.035	0.44	1.78	63	0.58	11.70	368	2.2
DD025942		0.016	1.45	7.49	96	0.63	10.85	275	1.2
DD025943		0.019	1.27	7.26	117	0.49	11.10	300	1.7
DD025944		0.018	1.06	8.53	274	0.55	13.00	627	3.2
DD025945		0.019	1.04	5.18	136	0.40	11.60	456	2.6
DD025946		0.019	1.55	8.32	110	0.53	11.20	380	2.3
DD025947		0.020	0.59	5.13	81	0.59	11.65	328	2.1
DD025948		0.020	1.17	4.86	91	4.79	9.24	330	1.6
DD025949		0.025	2.71	4.44	75	0.72	13.50	893	2.3
DD025950		0.025	15.90	13.15	56	1.31	18.60	1600	2.0
DD018959		0.019	0.23	2.42	41	1.01	8.54	188	1.6
DD018960		0.021	0.24	1.45	35	0.53	10.25	269	1.8
DD018961		0.020	0.91	1.87	42	0.72	9.37	593	1.7
DD018962		0.022	0.31	2.46	46	1.14	9.06	345	2.4
DD018963		0.016	0.29	8.15	32	0.80	6.43	244	1.9
DD018964		0.013	0.29	39.4	26	0.44	5.53	137	1.5
DD018965		0.027	0.24	1.06	48	3.34	6.08	195	2.2
DD018966		0.026	0.35	3.51	50	1.04	7.42	193	1.3
DD018967		0.021	0.41	4.95	48	1.11	7.78	227	1.4
DD018968		0.022	0.46	4.06	33	1.03	5.67	131	1.6
DD018969		0.021	0.39	2.12	39	1.58	6.38	204	1.5

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Page: 5 - A  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 29- JUN- 2012  
 Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD018970		0.26	0.002	0.07	0.71	7	<0.2	<10	70	0.34	0.25	16.70	0.24	9.70	2.8	8
DD018971		0.21	0.002	0.02	0.14	7	<0.2	<10	30	0.16	0.15	20.0	0.04	7.54	1.1	1
DD018972		0.18	0.003	0.28	3.26	24.9	<0.2	<10	180	1.19	1.64	0.31	1.47	54.7	14.7	51
DD018973		0.23	0.003	0.03	0.17	3	<0.2	<10	10	0.07	0.23	19.20	0.14	5.44	1.1	2
DD018974		0.16	0.008	0.25	1.48	10.1	<0.2	<10	230	0.41	1.10	9.69	1.99	15.20	5.5	21
DD018975		0.26	0.004	0.04	3.58	17.7	<0.2	<10	250	1.18	1.54	0.19	0.44	18.60	15.9	52
DD018976		0.21	0.003	0.11	0.67	7	<0.2	<10	80	0.28	0.42	15.90	0.78	9.04	3.3	8
DD018977		0.22	0.005	0.25	1.93	16.9	<0.2	<10	370	0.76	0.84	4.09	1.00	24.0	10.3	31
DD018978		0.26	0.003	0.10	1.25	4	<0.2	<10	240	0.79	0.32	13.95	0.72	11.90	4.7	15
DD018979		0.22	0.004	0.04	0.81	3	<0.2	<10	200	0.56	6.86	17.00	0.27	9.27	2.4	9
DD018980		0.23	0.003	0.21	1.93	16.6	<0.2	<10	240	0.99	0.60	8.81	1.32	19.10	8.1	27
DD018981		0.21	0.005	0.26	1.69	15.9	<0.2	<10	360	0.67	0.47	2.40	0.72	22.2	10.2	31
DD018982		0.18	0.004	0.29	2.05	17.0	<0.2	<10	480	0.77	0.47	1.34	1.46	23.5	11.6	36
DD018983		0.17	0.012	0.22	1.04	10.1	<0.2	<10	370	0.48	0.46	3.44	1.04	14.60	7.2	16
DD018984		0.19	0.009	0.35	1.54	30.3	<0.2	<10	490	0.57	1.49	1.94	1.55	20.1	11.0	29
DD018985		0.17	0.013	0.47	1.33	29.8	<0.2	<10	340	0.56	3.21	3.98	2.09	20.4	10.1	26
DD018986		0.26	0.009	0.43	1.60	36.6	<0.2	<10	310	0.57	3.34	2.62	3.03	22.6	13.6	38
DD018987		0.26	0.014	0.25	1.28	34	<0.2	<10	230	0.68	5.50	10.30	6.06	19.70	11.4	23
DD018988		0.17	0.006	0.37	1.19	17.9	<0.2	<10	70	0.28	0.53	0.11	0.67	17.85	3.9	23
DD018989		0.18	0.009	0.53	1.62	24.6	<0.2	<10	280	0.63	1.49	1.20	6.76	19.50	17.4	30
DD018990		0.16	0.008	0.29	1.28	15.2	<0.2	<10	270	0.38	0.40	1.10	7.10	17.95	14.2	40
DD018991		0.15	0.008	0.38	1.53	18.4	<0.2	<10	280	0.45	0.36	1.20	1.48	19.90	14.3	46
DD018992		0.14	0.015	0.42	1.19	11.6	<0.2	<10	320	0.34	0.42	1.12	2.90	17.70	7.5	46
DD018993		0.13	0.012	0.47	2.44	12.1	<0.2	<10	250	0.86	0.45	1.62	1.09	17.95	18.2	61
DD018994		0.38	0.004	0.35	1.13	15.9	<0.2	<10	240	0.62	0.91	7.37	1.16	20.6	8.5	23
DD018995		0.21	0.005	0.60	0.29	10	<0.2	<10	210	0.53	1.45	15.55	1.60	7.74	2.7	7
DD018996		0.28	0.010	0.78	0.49	9	<0.2	<10	170	0.76	1.43	15.40	0.82	11.40	3.1	10
DD018997		0.25	0.010	1.11	0.97	12.1	<0.2	<10	320	1.00	1.29	8.06	0.95	18.40	6.9	18
DD018998		0.27	0.007	0.51	0.92	11.8	<0.2	<10	240	0.86	1.13	9.30	1.01	17.95	7.4	20
DD018999		0.26	0.005	0.51	1.24	13.2	<0.2	<10	320	0.87	1.07	3.51	0.94	21.8	9.7	25
DD019000		0.13	0.020	0.61	1.09	13.5	<0.2	<10	300	0.72	1.04	4.41	2.84	17.00	8.6	23
DD025990		0.31	0.009	1.94	1.35	24.5	<0.2	<10	360	0.67	0.75	0.66	2.99	29.9	12.3	28
DD025991		0.19	0.003	0.30	2.06	13.9	<0.2	<10	200	0.79	0.26	0.54	9.39	34.5	12.2	31
DD025992		0.42	0.007	0.95	1.54	31.2	<0.2	<10	680	1.19	1.82	3.99	16.10	25.3	18.3	25
DD025993		0.44	0.012	0.59	0.81	38	<0.2	<10	400	1.52	3.65	12.35	6.75	15.50	10.6	12
DD025994		0.46	0.007	0.94	1.72	45.9	<0.2	<10	650	1.42	1.70	3.87	6.15	28.2	15.8	28
DD025995		0.35	0.005	0.90	1.68	33.9	<0.2	<10	970	0.77	1.03	1.06	3.95	28.0	13.4	32
DD025996		0.30	0.008	1.56	1.95	43.8	<0.2	<10	1060	1.03	1.28	0.62	4.16	31.3	13.2	41
DD025997		0.28	0.007	1.59	1.37	34.8	<0.2	<10	1090	0.58	0.72	0.95	2.02	24.0	7.7	37
DD025998		0.35	0.006	1.19	1.87	40.7	<0.2	<10	780	0.96	1.03	0.75	4.23	27.9	12.6	36

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD018970		2.53	5.2	0.62	1.91	<0.05	0.03	0.01	0.009	0.06	4.8	10.2	11.05	190	0.64	0.02
DD018971		1.26	1.8	0.29	0.43	<0.05	<0.02	<0.01	0.146	0.08	3.8	3.3	12.20	131	0.53	0.02
DD018972		5.40	23.0	4.05	8.81	0.07	0.10	0.05	0.052	0.08	25.7	29.0	2.79	393	4.39	0.02
DD018973		0.91	1.3	0.24	0.46	<0.05	<0.02	0.01	0.005	0.04	2.6	2.5	12.10	122	0.69	0.02
DD018974		3.67	16.6	1.42	4.07	<0.05	0.04	0.04	0.036	0.04	7.8	15.8	7.25	329	4.60	0.02
DD018975		35.3	24.9	3.92	12.05	0.10	0.26	<0.01	0.044	0.64	8.3	75.3	4.16	418	2.22	0.03
DD018976		1.14	4.8	0.84	1.84	<0.05	0.02	0.03	0.012	0.02	5.0	7.2	9.99	363	0.87	0.02
DD018977		2.17	16.9	2.66	5.44	<0.05	0.04	0.06	0.035	0.06	11.5	19.1	2.99	530	2.34	0.03
DD018978		8.70	10.8	1.16	3.22	<0.05	0.02	0.03	0.013	0.06	6.3	22.4	9.74	371	4.78	0.02
DD018979		4.21	4.3	0.65	2.00	<0.05	<0.02	0.01	0.007	0.05	4.4	22.5	11.40	219	3.27	0.02
DD018980		4.86	10.5	2.28	5.50	<0.05	0.04	0.06	0.050	0.07	10.9	24.3	6.69	391	4.41	0.02
DD018981		1.40	21.6	2.72	4.73	<0.05	0.04	0.06	0.034	0.06	10.9	14.8	1.50	517	2.27	0.03
DD018982		1.74	26.1	2.94	6.22	0.10	0.04	0.06	0.037	0.07	12.4	20.2	1.22	556	3.48	0.02
DD018983		0.78	19.6	1.59	2.90	0.08	0.04	0.09	0.020	0.03	7.7	6.8	0.55	510	1.80	0.02
DD018984		1.68	31.6	2.87	4.73	0.09	0.05	0.08	0.042	0.07	10.7	16.4	0.94	532	3.21	0.02
DD018985		1.83	40.9	2.60	3.82	0.08	0.05	0.09	0.064	0.07	11.2	14.9	2.33	533	3.45	0.02
DD018986		3.01	42.7	3.28	5.10	0.10	0.04	0.08	0.052	0.07	12.4	19.6	1.64	560	4.27	0.03
DD018987		2.81	41.6	2.55	3.27	0.08	0.03	0.06	0.036	0.07	10.7	15.2	6.53	584	4.34	0.02
DD018988		2.24	15.7	2.71	6.26	0.08	<0.02	0.06	0.025	0.04	9.2	8.4	0.29	115	3.31	<0.01
DD018989		4.63	34.6	2.97	4.91	0.10	0.05	0.10	0.067	0.07	10.0	19.3	0.52	536	5.59	0.02
DD018990		1.97	30.7	2.69	4.41	0.11	0.05	0.07	0.039	0.06	9.6	16.6	0.80	347	3.89	0.03
DD018991		3.17	22.3	2.92	5.55	0.10	0.04	0.09	0.037	0.11	10.7	18.9	0.86	445	4.97	0.03
DD018992		3.80	23.8	2.03	5.41	0.08	0.03	0.09	0.026	0.08	9.9	11.8	0.62	209	5.15	0.02
DD018993		5.97	54.8	3.09	8.96	0.11	0.03	0.07	0.032	0.08	10.4	27.1	1.04	324	5.25	0.04
DD018994		1.84	23.7	2.17	3.28	0.07	0.12	0.05	0.050	0.11	11.0	15.3	3.32	615	3.04	0.02
DD018995		1.16	6.1	1.05	1.04	<0.05	0.04	0.05	0.107	0.03	4.1	6.2	9.58	1980	6.87	0.01
DD018996		3.38	8.7	0.85	1.51	<0.05	0.06	0.07	0.085	0.04	6.7	9.9	9.46	399	3.47	0.02
DD018997		3.04	16.4	1.86	3.01	0.07	0.07	0.08	0.076	0.06	9.8	13.8	5.03	710	6.17	0.02
DD018998		2.50	17.6	1.89	2.91	0.08	0.07	0.07	0.065	0.06	9.5	14.1	5.74	750	5.27	0.02
DD018999		2.38	22.0	2.35	4.01	0.08	0.07	0.06	0.058	0.08	11.7	16.2	2.37	594	3.66	0.02
DD019000		2.08	19.1	2.08	3.45	0.08	0.06	0.09	0.060	0.07	9.1	14.0	2.81	782	2.79	0.02
DD025990		1.46	45.6	3.14	4.03	0.12	0.06	0.11	0.051	0.08	18.3	14.9	0.60	621	2.96	0.02
DD025991		1.13	36.7	2.59	3.69	0.13	0.06	0.07	0.035	0.03	20.9	16.7	0.31	1100	1.72	0.02
DD025992		2.27	57.3	3.31	3.99	0.11	0.09	0.07	0.067	0.12	13.9	19.8	1.98	1160	5.01	0.02
DD025993		1.86	26.6	2.68	1.87	0.07	0.05	0.04	0.063	0.06	9.1	12.1	7.56	325	8.61	0.02
DD025994		2.53	71.5	3.75	4.67	0.12	0.08	0.09	0.078	0.10	15.8	22.0	2.64	937	5.45	0.02
DD025995		1.92	76.2	3.27	4.86	0.10	0.07	0.11	0.073	0.08	15.3	19.1	0.64	514	3.78	0.02
DD025996		2.59	121.5	3.44	5.19	0.12	0.10	0.10	0.126	0.12	18.3	22.9	0.61	561	5.49	0.02
DD025997		1.53	57.6	2.30	3.97	0.09	0.08	0.14	0.086	0.09	14.2	13.4	0.40	361	7.25	0.01
DD025998		2.16	73.4	3.47	5.13	0.12	0.09	0.12	0.084	0.11	15.9	21.7	0.60	1040	6.28	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD018970		0.30	8.8	280	3.9	7.6	<0.001	0.07	0.21	1.1	<0.2	0.4	76.4	<0.01	0.01	0.7
DD018971		0.13	4.2	40	0.5	8.1	0.001	0.07	0.06	0.8	0.2	0.4	117.0	<0.01	<0.01	0.6
DD018972		1.42	45.6	380	27.1	19.6	0.001	0.06	1.21	7.9	1.2	1.5	13.7	<0.01	0.04	6.4
DD018973		0.12	3.2	50	0.6	3.3	<0.001	0.08	0.09	0.7	<0.2	0.3	93.6	0.01	<0.01	0.3
DD018974		0.71	21.1	520	21.6	13.8	0.002	0.05	1.61	1.9	0.7	1.6	50.5	<0.01	0.04	1.0
DD018975		1.66	41.8	220	20.6	196.5	<0.001	0.01	1.07	4.9	0.2	1.5	10.2	<0.01	0.05	5.1
DD018976		0.31	12.0	390	5.5	5.7	0.003	0.02	0.29	1.2	<0.2	0.4	70.6	<0.01	0.02	0.5
DD018977		0.84	38.9	950	14.9	14.0	0.002	0.07	0.93	2.6	0.7	0.8	29.1	<0.01	0.03	1.0
DD018978		0.61	26.3	420	6.7	16.7	0.002	0.03	0.37	1.6	0.4	0.5	34.3	<0.01	0.01	0.9
DD018979		0.46	15.3	250	3.8	11.1	0.003	0.08	0.36	1.1	0.2	0.4	49.0	<0.01	0.02	0.5
DD018980		0.68	33.6	510	15.1	12.8	0.002	0.03	0.76	3.7	0.7	1.3	31.1	<0.01	0.03	1.6
DD018981		0.92	40.2	780	17.0	10.4	0.002	0.07	1.02	2.5	0.6	0.7	20.3	<0.01	0.04	0.9
DD018982		0.88	48.0	850	18.0	18.5	0.002	0.06	1.62	3.1	2.1	0.7	21.8	<0.01	0.04	1.0
DD018983		0.70	22.6	860	9.7	6.8	0.002	0.16	2.36	1.2	6.1	0.5	37.2	0.01	0.04	0.4
DD018984		1.04	47.0	730	17.5	18.8	0.004	0.09	2.48	3.0	3.6	2.5	30.2	<0.01	0.04	1.1
DD018985		0.77	51.3	860	26.6	21.4	0.003	0.07	5.23	2.8	3.1	3.8	42.5	<0.01	0.05	1.1
DD018986		0.96	67.0	920	20.6	25.5	0.003	0.08	8.94	3.5	2.9	2.4	34.8	<0.01	0.05	1.3
DD018987		0.74	67.8	590	12.3	15.5	0.001	0.03	1.55	3.4	1.5	2.0	67.0	<0.01	0.04	2.4
DD018988		1.20	21.6	410	14.7	13.2	<0.001	0.03	0.98	1.5	1.3	0.8	9.1	<0.01	0.04	0.6
DD018989		0.83	107.5	1060	17.4	17.2	0.021	0.11	1.86	3.1	7.0	4.0	35.5	<0.01	0.05	1.6
DD018990		1.03	88.3	780	18.6	12.6	0.010	0.06	2.02	2.9	3.5	1.2	32.4	<0.01	0.04	1.7
DD018991		1.41	51.0	920	20.6	20.7	0.013	0.09	2.03	3.4	3.3	0.8	37.6	<0.01	0.04	1.7
DD018992		1.35	35.1	840	13.7	17.7	0.003	0.09	1.53	2.8	3.5	0.8	48.0	<0.01	0.04	0.9
DD018993		1.33	86.7	980	13.3	19.7	0.007	0.11	1.28	3.9	3.8	0.6	55.7	0.01	0.04	1.1
DD018994		2.35	29.0	640	38.0	18.3	<0.001	0.01	1.59	3.4	0.8	1.0	70.6	0.01	0.03	4.8
DD018995		2.34	4.9	220	54.7	10.9	0.002	0.01	1.10	1.3	0.6	1.2	97.9	0.01	0.01	1.5
DD018996		2.40	7.6	370	36.8	18.8	0.002	0.03	0.70	1.8	1.1	1.9	109.0	0.01	0.02	1.4
DD018997		3.24	23.3	700	45.7	17.2	0.003	0.03	1.03	2.9	1.6	1.6	61.8	0.01	0.02	2.4
DD018998		2.82	23.4	640	28.7	20.4	0.001	0.02	0.91	2.9	1.0	1.5	71.5	0.01	0.02	2.6
DD018999		2.27	33.5	770	31.7	24.1	0.003	0.03	1.08	3.4	1.3	1.5	39.2	0.01	0.03	2.6
DD019000		2.34	31.0	830	32.0	22.4	0.004	0.06	0.94	2.7	2.0	1.3	43.8	0.01	0.03	1.7
DD025990		0.56	50.5	1010	37.3	12.3	<0.001	0.02	2.17	4.4	1.4	0.8	28.4	<0.01	0.05	4.6
DD025991		0.67	40.9	1450	34.6	8.2	0.001	0.04	1.10	4.1	1.8	0.6	15.2	0.02	0.03	2.3
DD025992		0.76	92.0	1050	47.0	19.8	0.009	0.08	3.15	3.7	4.0	2.7	57.7	<0.01	0.04	3.8
DD025993		0.44	86.6	470	28.3	17.4	0.016	0.08	3.01	2.2	2.4	4.2	100.5	<0.01	0.02	2.1
DD025994		0.74	90.0	910	45.0	23.8	0.001	0.03	2.91	4.0	1.9	2.3	47.9	<0.01	0.05	3.0
DD025995		0.86	57.8	1050	53.2	16.8	0.001	0.05	2.84	3.9	2.3	2.2	36.6	<0.01	0.05	3.1
DD025996		0.68	77.5	1150	79.6	19.5	<0.001	0.04	4.23	4.5	4.2	3.6	42.8	<0.01	0.07	3.8
DD025997		0.55	42.0	1130	84.3	13.3	<0.001	0.07	4.27	3.0	5.8	3.8	46.2	<0.01	0.07	2.3
DD025998		0.73	65.3	1090	87.2	17.8	0.001	0.04	3.99	4.0	3.0	3.4	40.3	<0.01	0.06	3.5

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 29- JUN- 2012  
 Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD018970		0.019	0.28	0.88	11	1.21	2.86	32	0.7
DD018971		<0.005	0.17	0.50	2	1.96	2.11	13	0.5
DD018972		0.079	0.93	2.18	88	1.15	15.15	144	3.2
DD018973		0.005	0.09	0.41	4	0.48	1.22	6	<0.5
DD018974		0.039	0.38	2.11	41	1.44	5.41	179	1.1
DD018975		0.119	1.43	1.12	93	1.02	3.74	113	9.4
DD018976		0.016	0.18	0.99	16	0.41	2.81	73	0.6
DD018977		0.036	0.52	3.48	57	0.61	8.27	157	1.2
DD018978		0.034	0.74	2.53	25	4.78	4.51	86	0.7
DD018979		0.026	0.50	1.19	14	4.97	3.08	40	<0.5
DD018980		0.038	0.67	2.80	43	0.68	8.57	119	1.2
DD018981		0.034	0.24	2.50	59	0.30	8.12	158	1.1
DD018982		0.038	0.47	6.84	61	0.31	8.65	282	1.2
DD018983		0.018	0.15	9.46	29	0.25	7.11	73	1.6
DD018984		0.034	0.35	7.07	57	0.84	8.14	224	1.5
DD018985		0.029	0.33	4.05	72	1.19	9.28	321	1.6
DD018986		0.042	0.36	3.92	74	1.97	9.57	491	1.3
DD018987		0.032	0.38	3.50	45	4.79	8.68	282	1.4
DD018988		0.034	0.28	0.77	75	0.98	2.37	92	<0.5
DD018989		0.029	0.88	3.10	66	0.66	9.72	497	1.5
DD018990		0.041	0.47	1.33	65	0.19	7.90	435	1.5
DD018991		0.047	0.43	2.23	82	0.15	6.25	277	1.5
DD018992		0.042	0.48	1.92	80	0.25	6.37	132	0.9
DD018993		0.058	0.46	6.91	92	0.20	10.60	245	0.8
DD018994		0.029	0.35	0.85	34	2.27	10.80	237	5.9
DD018995		0.009	0.25	1.15	11	7.38	5.82	378	1.1
DD018996		0.010	0.25	2.20	12	8.51	8.18	531	1.7
DD018997		0.025	0.29	2.79	28	5.64	12.40	641	1.9
DD018998		0.027	0.32	1.96	32	9.98	10.55	422	2.0
DD018999		0.033	0.30	2.14	39	3.01	11.50	403	2.0
DD019000		0.025	0.26	3.20	34	3.22	9.77	470	1.7
DD025990		0.031	0.29	1.11	56	1.46	15.25	210	2.6
DD025991		0.024	0.36	1.46	35	0.41	18.85	314	1.5
DD025992		0.025	0.91	3.36	50	2.31	15.65	1160	3.2
DD025993		0.014	0.73	2.45	33	6.78	13.95	1290	1.9
DD025994		0.026	0.78	1.48	56	2.24	17.35	1110	2.3
DD025995		0.022	0.63	2.21	63	1.00	12.75	419	2.4
DD025996		0.025	0.80	2.65	79	1.58	16.70	519	3.3
DD025997		0.016	0.66	2.37	67	0.71	11.00	242	3.1
DD025998		0.024	0.80	2.31	75	1.00	14.00	350	3.0

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD025999		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026000		0.41	0.008	0.05	0.09	10	<0.2	<10	60	0.27	0.76	18.80	0.60	6.07	1.2	2
		0.32	0.010	0.96	1.48	28.4	<0.2	<10	500	0.64	3.56	1.78	3.55	24.7	10.5	29

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm	ME- MS41 Cu ppm	ME- MS41 Fe %	ME- MS41 Ga ppm	ME- MS41 Ge ppm	ME- MS41 Hf ppm	ME- MS41 Hg ppm	ME- MS41 In ppm	ME- MS41 K %	ME- MS41 La ppm	ME- MS41 Li ppm	ME- MS41 Mg %	ME- MS41 Mn ppm	ME- MS41 Mo ppm	ME- MS41 Na %
DD025999		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026000		0.31	16.1	0.43	0.39	<0.05	<0.02	0.01	0.008	0.01	5.1	4.6	12.00	557	1.43	0.01
		1.84	89.8	3.04	4.75	0.09	0.08	0.09	0.113	0.09	14.1	14.8	1.14	647	4.68	0.01

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm
DD025999		0.06	1.3	80	3.8	1.1	0.005	<0.01	1.34	0.5	0.6	0.5	132.0	<0.01	<0.01	0.2
DD026000		0.76	47.0	710	59.4	16.5	0.001	0.05	4.77	3.4	2.7	9.3	35.6	<0.01	0.06	2.6

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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Project: ATAC- Regional- Kathy- Areas I,J

**CERTIFICATE OF ANALYSIS WH12138693**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
DD025999		<0.005	0.06	1.52	31	2.10	4.32	34	<0.5
DD026000		0.027	0.56	2.22	90	1.52	10.80	285	2.3

Comments: \*\*\*Corrected copy with sample IDs DD020671- DD020680 changed to DD020571- DD020580\*\*\*

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**CERTIFICATE OF ANALYSIS WH12138693**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1  
 Finalized Date: 8- JUL- 2012  
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**CERTIFICATE WH12139328**

Project: ATAC- Regional Area C,G,F  
 P.O. No.: R6  
 This report is for 73 Rock samples submitted to our lab in Whitehorse, YT, Canada on 18- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

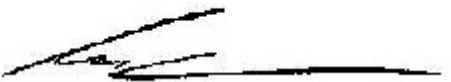
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%< 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATAC- Regional Area C,G,F

**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L837776		0.88	<0.01	0.22	1.75	13.8	850	0.30	0.13	0.22	1.13	13.60	15.0	16	6.68	23.4
L837777		0.34	<0.01	0.05	2.59	17	200	0.57	0.12	22.6	1.81	23.5	4.9	19	9.59	35.0
L837778		0.16	<0.01	0.01	1.49	<5	130	0.48	0.07	20.3	0.10	15.45	3.2	13	1.86	5.8
L837779		0.46	<0.01	0.09	0.42	<5	40	0.13	0.02	10.85	0.18	4.59	1.5	4	0.54	7.5
L837780		0.42	<0.01	0.02	0.45	6	90	0.21	0.02	23.2	0.14	6.91	2.8	4	1.31	3.8
L837781		0.58	<0.01	0.05	0.24	43	380	0.12	0.02	23.9	0.49	4.87	7.3	3	0.36	9.1
L837782		0.59	<0.01	0.32	0.23	370	40	0.18	0.02	22.8	0.74	6.16	25.3	4	0.42	36.9
L837783		0.44	<0.01	1.11	0.14	1165	90	<0.05	0.12	0.49	1.32	1.71	133.0	4	0.15	179.0
L837784		0.81	<0.01	0.33	0.45	170.5	90	0.10	0.04	0.20	0.78	5.08	38.7	5	0.39	32.5
L837785		0.38	<0.01	0.02	0.59	15	120	0.23	0.01	23.4	0.04	11.15	3.1	15	0.93	5.5
L837786		0.32	<0.01	0.41	6.86	81.3	1060	0.75	0.14	3.19	0.29	70.9	17.1	82	8.89	37.8
L837787		0.35	0.04	0.08	0.88	6.6	1660	0.16	0.03	0.40	0.54	10.45	2.8	37	0.32	84.5
L837788		0.39	<0.01	0.06	0.23	212	610	0.08	0.01	0.08	16.85	3.10	0.7	21	0.27	27.2
L837789		0.71	<0.01	0.38	0.93	7.0	350	0.25	0.01	6.75	8.20	15.55	3.9	14	0.40	10.0
L837790		0.53	0.01	0.22	6.01	24.5	2670	2.29	0.20	1.25	1.96	75.9	12.8	109	5.90	62.2
L837791		0.58	<0.01	0.03	4.02	12.1	240	0.11	0.01	6.63	0.86	11.65	3.3	15	0.25	8.7
L837792		0.39	0.01	0.19	0.14	234	70	0.11	0.01	35.6	28.0	2.54	55.3	7	0.16	12.9
L837793		0.43	<0.01	0.05	0.16	<5	30	0.12	0.01	33.0	3.41	1.91	1.7	2	0.30	7.6
L837794		0.39	0.01	0.09	0.23	<5	50	0.16	0.01	37.7	43.8	3.59	6.3	3	0.26	7.2
L837795		0.44	<0.01	0.02	0.29	8	40	0.15	0.01	35.5	12.60	4.16	3.5	3	0.31	5.3
L837796		0.37	<0.01	0.26	0.19	269	60	0.24	0.01	33.6	20.7	2.40	35.8	7	0.34	27.9
L837797		0.46	<0.01	0.80	3.50	48	490	1.79	0.11	22.4	44.9	37.7	21.3	39	7.99	39.2
L837798		0.21	0.01	0.21	11.70	511	5840	32.6	0.05	1.98	52.9	13.40	57.3	121	1.81	876
L837799		0.63	<0.01	1.01	1.65	10.0	3070	0.85	0.05	6.61	2.44	18.60	6.0	48	1.59	13.7
L837800		0.32	<0.01	0.09	0.38	11.0	870	0.64	0.01	0.97	1.30	2.22	1.9	18	0.31	18.9
K242196		0.66	<0.01	0.17	0.51	8	440	0.19	0.02	16.25	0.23	7.62	1.2	14	1.16	5.4
K242197		0.61	<0.01	0.93	0.69	19.8	3950	0.23	0.02	0.16	1.92	9.36	4.4	25	0.40	33.4
K242198		0.43	<0.01	0.64	0.31	8.3	2150	0.23	0.01	0.40	1.25	2.90	2.3	28	0.34	11.7
K242199		0.29	<0.01	0.81	0.78	9.6	530	0.47	0.01	1.41	1.74	8.04	5.0	24	0.29	22.7
K242200		0.67	<0.01	0.27	1.26	<5	1570	0.66	0.05	19.70	0.27	11.15	2.9	27	1.66	11.9
.980250		0.44	<0.01	0.16	0.23	1.1	210	0.07	0.01	9.21	0.40	2.54	0.5	18	0.42	3.7
.980251		0.92	<0.01	<0.01	0.10	<5	40	0.11	0.01	37.2	0.04	1.19	0.8	3	0.13	2.1
.980252		0.52	<0.01	0.57	6.96	15.9	550	2.93	0.25	0.21	0.85	76.7	8.1	80	4.21	44.7
.980253		0.66	0.01	0.32	6.40	5.4	2920	2.87	0.21	0.63	0.82	63.7	7.0	62	8.40	83.9
.980254		0.47	<0.01	0.09	0.12	0.8	430	0.06	0.01	2.59	0.37	1.22	0.7	21	0.23	5.9
.980255		0.48	<0.01	0.10	0.16	1.0	410	0.08	0.01	2.88	0.41	1.93	0.6	27	0.18	3.6
.980256		0.44	<0.01	<0.01	0.07	<5	50	0.07	<0.01	38.0	0.11	1.66	1.0	4	0.06	2.2
.980257		0.40	<0.01	0.04	0.33	7	90	0.23	0.01	35.8	8.26	2.64	6.3	5	0.93	13.0
.980258		0.52	<0.01	0.06	0.13	7	100	0.18	0.01	36.7	1.88	1.47	1.1	3	0.24	2.0
.980259		0.32	<0.01	0.03	0.26	<5	80	0.18	0.01	37.2	2.79	6.45	2.0	4	0.27	2.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L837776		48.4	5.29	1.24	0.6	0.69	0.086	0.84	6.8	5.4	0.48	39	16.55	0.02	3.4	72.0
L837777		4.27	6.50	<0.05	0.9	0.18	0.038	1.29	11.3	10.0	6.11	49	1.29	0.03	4.6	13.4
L837778		0.80	3.69	<0.05	0.5	0.04	0.017	0.86	7.4	4.2	10.40	105	1.36	0.03	2.5	5.6
L837779		22.8	1.32	0.38	0.2	0.10	0.014	0.21	1.8	2.9	5.52	7	6.93	0.01	1.1	3.1
L837780		0.30	1.27	0.05	0.2	0.01	0.008	0.23	3.7	2.1	11.55	67	13.80	0.02	1.0	4.5
L837781		1.27	0.68	<0.05	0.1	0.26	0.006	0.09	3.6	1.5	11.15	84	27.4	0.01	0.6	22.7
L837782		9.01	0.67	0.07	0.1	1.27	0.007	0.09	4.4	1.2	6.59	60	103.5	0.01	0.7	74.2
L837783		49.7	0.93	1.11	<0.1	4.78	0.031	0.03	1.0	0.7	0.32	38	328	<0.01	0.8	264
L837784		>50	1.48	1.11	0.2	0.69	0.005	0.15	3.3	1.4	0.17	28	87.5	<0.01	1.7	91.8
L837785		0.89	1.44	<0.05	0.3	0.13	0.008	0.26	5.7	4.6	10.25	84	3.06	0.02	3.3	5.2
L837786		18.45	15.80	0.36	4.8	0.52	0.056	2.54	40.8	10.3	2.06	104	42.9	0.03	73.1	39.3
L837787		1.27	1.67	<0.05	0.4	0.15	0.011	0.35	6.5	9.8	0.18	154	1.71	0.18	2.4	15.6
L837788		1.05	0.55	<0.05	0.1	0.94	0.030	0.09	1.6	1.7	0.03	69	0.87	0.01	1.0	3.9
L837789		5.41	1.58	<0.05	0.2	0.16	0.041	0.39	6.8	4.1	1.38	2880	1.73	0.01	3.0	11.0
L837790		3.88	17.60	0.12	2.6	0.11	0.056	2.37	40.5	41.8	1.19	343	3.33	0.31	18.4	64.9
L837791		3.16	4.18	<0.05	0.4	0.02	0.015	0.14	6.0	1.8	2.51	683	0.46	3.08	3.2	8.2
L837792		3.56	0.44	<0.05	0.1	0.48	<0.005	0.04	1.9	0.5	0.61	763	24.2	0.01	0.5	309
L837793		0.10	0.46	<0.05	0.1	0.11	<0.005	0.04	1.4	1.0	4.09	40	0.29	0.01	0.4	15.8
L837794		0.41	0.62	<0.05	0.1	0.45	<0.005	0.09	1.9	0.6	0.24	120	1.58	<0.01	0.6	54.8
L837795		0.14	0.84	<0.05	0.1	0.11	<0.005	0.09	2.6	1.5	0.50	94	0.36	<0.01	0.7	24.1
L837796		5.52	0.59	<0.05	0.1	0.41	<0.005	0.06	1.8	0.7	1.00	388	25.3	<0.01	0.5	263
L837797		1.82	8.08	0.07	1.6	1.97	0.036	0.85	23.5	26.5	0.51	610	3.71	0.08	7.0	684
L837798		16.70	2.98	0.36	1.0	0.35	0.270	0.21	12.6	5.7	0.08	1710	22.0	0.05	1.3	1200
L837799		1.14	2.77	<0.05	0.9	0.11	0.019	0.32	17.3	15.4	0.12	411	2.07	0.04	2.4	41.9
L837800		0.68	0.48	<0.05	0.2	0.02	0.007	0.04	3.2	2.5	0.02	215	1.33	0.01	0.3	28.3
K242196		2.09	1.32	<0.05	0.3	0.03	0.005	0.19	7.9	4.5	0.19	80	3.68	0.02	1.3	7.8
K242197		19.75	1.25	0.32	0.2	0.10	<0.005	0.10	12.1	17.0	0.10	102	4.60	0.02	0.8	58.4
K242198		9.01	0.62	0.12	0.1	0.07	<0.005	0.07	3.5	3.4	0.04	71	2.76	0.01	0.5	23.1
K242199		7.04	0.88	0.10	0.1	0.06	<0.005	0.08	6.9	9.1	0.09	376	1.64	0.01	0.5	80.3
K242200		1.48	3.14	0.06	0.5	0.03	0.012	0.43	10.4	8.7	2.37	283	1.66	0.06	2.4	20.7
.980250		0.29	0.58	<0.05	0.1	0.01	<0.005	0.10	3.2	6.2	0.10	27	0.56	0.01	0.4	4.3
.980251		0.05	0.26	<0.05	<0.1	<0.01	<0.005	0.04	0.7	0.8	0.65	24	0.40	<0.01	0.4	0.3
.980252		3.60	21.5	0.16	2.7	0.24	0.062	3.51	25.8	21.8	0.64	55	4.53	0.54	13.2	33.0
.980253		2.26	18.45	0.12	3.2	0.21	0.043	3.68	38.3	40.4	1.47	59	2.57	0.39	10.6	30.3
.980254		0.37	0.32	<0.05	0.2	0.01	<0.005	0.04	1.4	4.3	0.26	58	0.37	0.02	0.2	6.0
.980255		0.42	0.38	<0.05	0.2	0.01	<0.005	0.06	2.7	4.4	0.12	50	0.61	0.01	0.3	6.0
.980256		0.04	0.20	<0.05	<0.1	<0.01	<0.005	0.04	0.9	0.4	0.17	30	0.89	<0.01	0.3	2.5
.980257		0.10	0.74	<0.05	0.2	0.05	<0.005	0.10	3.3	1.9	0.18	107	0.33	<0.01	0.6	60.5
.980258		0.07	0.33	<0.05	0.1	0.14	<0.005	0.05	0.8	0.7	0.33	54	0.41	<0.01	0.4	8.7
.980259		0.10	0.63	0.05	0.1	0.02	<0.005	0.13	3.1	1.2	0.18	57	0.19	<0.01	0.7	7.4

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Project: ATAC- Regional Area C,G,F

**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L837776		40	14.8	28.9	0.002	1.08	1.43	4.4	1	1.2	26.7	0.18	0.06	3.4	0.087	3.47
L837777		60	8.6	45.8	<0.002	1.32	0.49	4.5	1	0.9	183.0	0.31	<0.05	3.7	0.132	1.51
L837778		60	3.3	27.0	0.002	0.06	0.15	2.6	1	0.4	153.5	0.16	<0.05	2.1	0.070	0.37
L837779		20	3.2	7.2	<0.002	>10.0	0.11	1.0	1	0.3	79.5	0.05	<0.05	0.7	0.020	0.96
L837780		30	2.5	10.0	0.007	0.04	0.54	1.2	1	0.2	189.0	0.06	<0.05	0.9	0.023	0.26
L837781		20	4.1	3.6	0.003	0.03	3.11	0.8	2	0.3	116.5	<0.05	<0.05	0.5	0.013	0.89
L837782		40	18.0	3.4	0.002	0.03	15.50	1.0	2	0.3	94.5	<0.05	0.05	0.6	0.013	2.17
L837783		20	54.4	1.4	0.014	0.13	24.4	0.5	4	2.9	6.4	<0.05	0.18	0.2	0.005	15.20
L837784		30	11.0	6.3	0.004	0.14	4.50	1.2	1	0.5	7.3	0.06	0.05	0.7	0.024	4.87
L837785		70	1.7	8.6	<0.002	0.04	0.62	2.1	1	<0.2	164.0	0.18	<0.05	0.6	0.061	0.90
L837786		820	25.3	65.3	<0.002	0.15	3.47	6.9	2	2.0	67.9	3.78	0.09	11.3	0.693	3.52
L837787		620	1.4	10.1	<0.002	0.01	0.29	2.5	1	0.2	22.6	0.11	<0.05	1.7	0.030	0.13
L837788		300	66.8	4.0	<0.002	0.08	1.60	0.5	1	0.2	53.2	0.05	<0.05	0.5	0.010	0.11
L837789		310	413	23.9	<0.002	0.01	2.34	5.5	1	<0.2	190.5	0.15	<0.05	0.7	0.038	0.18
L837790		1780	23.8	117.5	0.004	0.08	2.67	12.7	3	1.9	114.5	1.24	0.06	11.6	0.354	0.71
L837791		550	5.2	6.3	<0.002	0.01	0.46	2.6	1	<0.2	260	0.20	<0.05	1.7	0.039	0.05
L837792		200	1.6	1.9	<0.002	<0.01	3.42	0.5	4	<0.2	102.0	<0.05	<0.05	0.2	0.006	1.74
L837793		140	0.6	1.9	<0.002	<0.01	0.21	0.6	1	<0.2	53.5	<0.05	<0.05	0.3	0.005	0.14
L837794		140	1.0	3.9	<0.002	<0.01	0.71	1.0	1	<0.2	95.9	<0.05	<0.05	0.4	0.011	0.70
L837795		90	1.3	4.1	<0.002	<0.01	0.50	1.4	1	<0.2	41.6	<0.05	<0.05	0.5	0.012	0.45
L837796		330	3.5	2.9	<0.002	0.02	10.20	0.8	2	<0.2	84.0	<0.05	<0.05	0.3	0.007	1.19
L837797		820	9.4	51.9	<0.002	0.04	3.69	8.6	3	1.0	63.9	0.46	0.05	5.4	0.176	2.27
L837798		>10000	3.5	9.2	0.002	0.05	65.0	24.2	3	0.4	812	0.12	0.17	2.9	0.026	9.19
L837799		1410	4.1	20.7	0.010	0.10	1.24	3.6	4	0.4	293	0.16	<0.05	2.5	0.066	0.25
L837800		740	1.0	2.6	0.002	0.01	1.25	1.3	2	<0.2	101.5	<0.05	<0.05	0.3	0.009	0.21
K242196		190	3.0	11.2	0.002	0.69	0.17	1.2	5	0.2	206	0.07	<0.05	0.9	0.027	0.15
K242197		380	23.9	5.3	<0.002	0.33	1.02	2.8	19	0.2	58.1	<0.05	<0.05	1.0	0.014	0.05
K242198		120	10.2	2.8	<0.002	0.09	0.46	1.2	4	<0.2	30.7	<0.05	<0.05	0.5	0.009	0.03
K242199		390	13.0	3.8	<0.002	0.01	0.82	2.1	3	0.2	35.9	<0.05	<0.05	0.7	0.012	0.08
K242200		370	3.3	24.1	0.003	0.40	0.67	3.3	2	0.4	786	0.13	0.05	1.6	0.062	0.14
.980250		150	0.7	5.0	0.003	0.03	0.17	0.5	1	<0.2	155.5	<0.05	<0.05	0.3	0.010	0.04
.980251		30	<0.5	1.6	<0.002	0.01	0.06	0.3	1	<0.2	172.0	<0.05	<0.05	<0.2	<0.005	0.03
.980252		450	15.0	137.5	0.002	1.14	3.48	15.0	5	2.6	231	0.89	0.14	8.7	0.405	0.92
.980253		2670	9.0	146.5	0.004	0.04	2.13	10.4	2	1.6	125.5	0.62	0.10	13.8	0.283	1.02
.980254		170	0.6	1.4	0.003	0.02	0.16	0.2	1	<0.2	42.5	<0.05	<0.05	0.2	0.006	0.04
.980255		120	0.6	2.5	0.003	0.03	0.20	0.3	1	<0.2	81.1	<0.05	<0.05	0.3	0.008	0.02
.980256		30	<0.5	1.5	0.003	0.01	0.08	0.3	1	<0.2	167.5	<0.05	<0.05	<0.2	<0.005	0.03
.980257		140	0.5	5.2	<0.002	<0.01	0.31	1.4	1	<0.2	76.0	<0.05	<0.05	0.3	0.008	0.38
.980258		80	0.5	2.0	<0.002	0.01	0.17	0.4	2	<0.2	162.5	<0.05	<0.05	0.2	0.005	0.07
.980259		30	0.6	5.4	<0.002	0.01	0.22	1.1	2	<0.2	182.5	<0.05	<0.05	0.4	0.010	0.08



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**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Pb- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	Pb	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.1	1	0.1	0.1	2	0.5	0.001	0.1
L837776		8.8	28	0.4	4.3	842	21.9		
L837777		2.0	27	0.5	8.2	595	33.7		
L837778		1.6	17	0.3	4.8	25	19.3		
L837779		1.4	7	0.1	2.1	90	6.7		
L837780		4.4	11	0.1	2.6	8	8.0		
L837781		3.3	14	0.1	3.0	26	3.7		
L837782		5.0	12	0.1	2.9	57	4.7		
L837783		12.9	25	0.1	1.7	66	1.8		
L837784		4.4	17	0.1	3.0	53	6.6		
L837785		0.8	9	0.1	4.1	8	14.7		
L837786		7.4	96	3.7	19.6	94	201		
L837787		1.1	23	0.3	6.7	74	16.6		
L837788		0.6	6	0.1	1.8	1290	4.6		
L837789		0.7	18	1.7	18.7	763	9.1		
L837790		4.3	154	1.3	21.5	210	96.5		
L837791		0.5	19	1.1	7.9	85	15.0		
L837792		3.0	48	0.1	9.7	1940	2.2		
L837793		1.1	6	0.1	2.2	119	3.7		
L837794		1.5	9	0.1	11.8	712	3.8		
L837795		1.0	8	0.1	9.3	202	5.0		
L837796		2.7	102	0.1	6.7	2310	3.9		
L837797		3.8	132	0.8	48.4	5390	60.6		
L837798		1330	2590	0.5	159.0	2270	27.8		
L837799		4.1	100	0.3	24.0	226	37.4		
L837800		21.9	51	0.1	7.1	104	7.2		
K242196		4.8	18	0.2	10.0	38	11.4		
K242197		3.6	19	0.1	17.4	64	5.7		
K242198		1.1	7	0.1	5.0	101	3.9		
K242199		1.2	11	0.1	13.1	238	4.7		
K242200		1.7	53	0.3	9.2	62	23.9		
.980250		1.0	8	0.1	5.8	21	3.5		
.980251		0.7	4	<0.1	0.6	6	1.9		
.980252		6.8	218	1.5	32.6	71	106.0		
.980253		13.7	279	0.9	30.1	158	130.0		
.980254		0.5	7	<0.1	2.5	23	7.5		
.980255		0.8	6	<0.1	3.5	22	5.6		
.980256		4.1	8	<0.1	0.7	3	1.3		
.980257		0.8	22	0.1	10.7	198	8.7		
.980258		0.7	6	<0.1	1.3	119	4.2		
.980259		1.7	8	0.1	3.7	40	3.5		





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Project: ATAC- Regional Area C,G,F

**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.980260		0.42	<0.01	0.04	0.89	14	2560	0.64	0.03	32.8	3.27	8.26	5.3	16	1.61	32.3
.980261		0.30	<0.01	0.39	0.48	3.1	1080	0.24	0.02	0.54	0.23	4.03	4.3	18	0.43	8.1
.980262		0.48	<0.01	0.32	1.02	11.7	880	0.38	0.04	0.61	0.27	11.55	7.8	37	0.88	30.8
.980263		0.58	<0.01	0.05	0.10	0.6	140	0.06	0.01	3.65	0.17	1.37	0.5	14	0.16	3.0
G0557633		0.60	<0.01	0.08	8.56	18.0	550	1.95	0.28	0.03	0.03	57.9	5.5	100	8.87	30.6
G0557634		0.77	<0.01	0.05	6.23	10.6	320	1.66	0.19	0.24	0.14	59.7	6.3	70	3.31	26.7
G0557635		0.68	<0.01	0.06	8.64	16.5	560	2.47	0.26	0.03	0.08	77.6	10.6	92	6.30	33.0
G0557636		0.95	<0.01	0.03	0.73	71	40	0.16	0.02	19.25	0.06	9.85	2.5	9	0.74	4.2
G0557637		0.39	<0.01	0.02	2.42	2530	360	0.52	0.06	2.89	1.01	18.50	15.0	14	1.21	36.4
G0557638		0.59	0.01	0.09	0.45	739	180	0.14	0.02	14.90	10.15	9.25	1.6	5	0.40	5.6
G0557639		0.48	<0.01	0.01	1.55	2160	2430	0.28	0.06	0.21	0.09	32.5	0.9	16	0.87	5.0
G0557640		0.60	<0.01	<0.01	0.15	158	240	0.09	<0.01	17.80	0.24	3.20	0.9	3	0.06	1.8
G0557641		0.50	<0.01	<0.01	0.07	11	250	0.14	0.01	36.3	0.02	2.53	0.7	5	0.07	1.6
G0557642		0.62	<0.01	0.01	0.25	7	870	0.20	0.01	31.0	0.02	9.17	1.0	4	0.46	2.9
G0557643		0.24	<0.01	0.07	5.41	28.7	590	1.54	0.22	0.23	0.05	78.2	6.3	56	4.52	9.1
L842501		1.23	<0.01	0.01	0.18	<5	6060	0.06	0.01	10.90	5.23	1.03	0.4	6	0.35	2.0
L842502		0.15	<0.01	0.74	1.28	6	3360	0.48	0.05	10.25	2.37	17.75	3.8	24	1.33	12.4
L842503		0.84	<0.01	0.62	15.15	40.9	2560	9.00	0.04	0.45	20.1	1.70	301	26	1.19	243
L842504		0.22	0.01	0.11	0.06	1070	2760	0.56	<0.01	0.09	4.15	0.16	44.8	4	0.09	8.4
L842505		0.68	<0.01	0.06	0.86	31.4	1440	0.29	0.07	1.46	0.44	38.9	10.4	14	0.11	11.1
L842506		0.50	<0.01	0.02	1.19	12.6	2680	0.19	0.05	0.10	0.12	31.2	2.1	15	0.21	8.9
L842507		0.24	<0.01	0.04	0.34	329	490	0.30	0.01	1.59	0.08	0.70	89.6	1100	6.76	11.4
I357901		0.70	<0.01	0.02	0.08	16	60	0.10	<0.01	29.3	0.08	0.74	0.9	4	0.08	2.4
I357902		0.68	<0.01	0.03	2.60	2430	230	0.36	0.06	0.21	3.37	27.5	16.5	30	1.13	87.2
I357903		0.80	<0.01	0.03	0.57	1185	310	0.28	0.01	0.29	0.67	2.31	0.8	5	0.35	5.1
I357904		0.94	<0.01	0.01	0.13	80.2	3380	<0.05	<0.01	3.74	0.22	1.70	0.3	2	0.07	1.0
I357905		1.21	<0.01	0.05	2.95	23.3	770	0.25	0.04	0.12	0.22	21.7	1.6	20	1.91	5.3
I357906		0.69	<0.01	<0.01	0.41	5.1	360	0.06	0.01	0.02	0.02	2.10	1.1	19	0.07	4.4
I357907		0.51	<0.01	0.01	1.53	7.2	150	0.53	0.08	5.32	0.04	15.30	4.7	22	1.06	10.9
I357908		1.00	<0.01	0.02	0.56	4.1	60	0.18	0.03	0.02	0.02	3.30	2.5	19	0.18	8.3
I357909		0.60	<0.01	0.08	1.13	71.2	50	0.13	0.02	0.09	0.08	7.74	1.2	22	0.46	4.9
I357910		0.51	0.01	7.40	0.89	208	90	0.22	0.05	0.04	22.6	5.95	0.3	28	0.51	20.9
I357911		0.66	<0.01	0.34	1.31	21.2	240	0.22	0.05	1.20	0.39	25.8	2.8	21	0.88	3.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
.980260		0.76	2.45	0.06	0.3	0.05	0.015	0.42	4.9	3.5	0.21	73	5.10	0.01	1.6	78.7
.980261		0.75	1.23	<0.05	0.2	0.02	0.005	0.15	1.8	6.5	0.04	139	1.10	0.01	0.9	8.9
.980262		2.09	2.32	0.05	1.1	0.03	0.014	0.34	9.6	5.8	0.06	245	2.91	0.01	1.9	58.8
.980263		0.30	0.19	<0.05	<0.1	0.01	<0.005	0.03	1.9	2.4	0.03	45	0.34	0.01	0.1	4.0
G0557633		5.34	23.8	0.13	2.9	0.04	0.077	2.50	24.5	56.2	0.64	93	1.17	0.37	11.8	17.7
G0557634		4.47	15.85	0.12	2.1	0.02	0.053	1.39	29.8	84.8	0.62	1260	0.81	0.33	8.0	38.6
G0557635		4.95	22.8	0.14	3.0	0.03	0.073	2.49	38.1	63.0	0.81	389	1.28	0.35	12.5	35.2
G0557636		0.69	1.84	0.06	0.5	0.84	0.005	0.24	5.3	11.5	11.40	562	0.14	0.02	1.4	4.5
G0557637		4.02	5.21	0.08	0.6	4.20	0.024	0.39	14.5	26.6	1.55	287	0.21	0.02	1.8	35.7
G0557638		1.72	4.26	0.05	0.2	30.1	0.045	0.14	6.1	10.9	8.73	1190	0.15	0.01	1.0	4.4
G0557639		0.60	4.80	0.05	1.0	>100	0.018	0.35	19.4	58.0	0.08	86	0.17	0.01	2.1	4.7
G0557640		0.48	0.38	0.05	0.1	2.05	<0.005	0.01	1.5	32.1	10.65	468	0.14	0.01	0.3	1.6
G0557641		0.14	0.23	0.05	0.1	0.59	<0.005	0.05	1.3	1.7	0.15	36	0.11	0.01	0.4	0.9
G0557642		0.89	0.71	<0.05	0.2	0.23	<0.005	0.10	4.8	5.1	0.21	490	0.19	0.02	0.7	1.7
G0557643		2.56	14.60	0.10	3.7	0.14	0.042	2.20	39.1	40.6	0.67	84	0.66	0.21	18.8	19.2
L842501		0.04	0.46	<0.05	0.1	0.03	<0.005	0.06	1.2	0.8	0.07	19	0.19	<0.01	0.4	5.2
L842502		1.19	2.95	0.06	0.7	0.11	0.014	0.42	15.3	11.2	0.16	284	1.90	0.03	2.5	33.6
L842503		5.44	3.76	0.26	0.5	0.17	0.014	0.31	0.9	30.4	0.06	2990	178.0	0.01	1.7	2950
L842504		4.42	0.36	0.86	<0.1	0.40	<0.005	0.01	<0.5	0.2	0.01	20	50.2	0.01	0.1	498
L842505		3.30	2.61	0.08	0.6	0.06	0.009	0.02	10.4	17.8	0.36	3120	4.01	0.01	1.2	43.7
L842506		0.95	2.91	0.05	2.3	0.13	0.006	0.46	12.6	4.2	0.05	295	0.73	0.01	2.3	6.1
L842507		3.63	0.48	0.11	<0.1	3.02	<0.005	0.07	<0.5	18.2	17.50	859	0.33	0.01	0.1	1270
I357901		0.07	0.21	<0.05	<0.1	0.06	<0.005	0.02	<0.5	0.7	6.14	736	0.24	0.01	0.3	1.9
I357902		5.83	6.91	0.13	0.8	4.48	0.049	0.40	19.1	18.7	0.15	443	0.53	0.02	2.4	35.7
I357903		0.88	1.20	<0.05	0.1	3.14	<0.005	0.03	1.5	31.2	0.09	77	0.15	0.01	0.1	6.0
I357904		0.20	0.25	<0.05	0.1	3.36	<0.005	0.01	0.7	9.3	2.06	125	0.11	0.01	0.1	1.6
I357905		0.79	6.02	0.07	1.5	1.26	0.013	0.55	10.6	30.0	0.10	43	0.17	0.02	3.1	6.3
I357906		1.58	1.33	0.05	0.1	0.48	<0.005	0.01	1.1	16.3	0.01	72	0.22	<0.01	0.3	6.1
I357907		5.09	3.54	0.10	0.4	0.16	0.038	0.30	7.5	63.3	0.35	745	0.19	0.02	1.5	19.4
I357908		1.81	1.64	0.05	0.1	0.48	0.008	0.04	1.7	40.6	0.03	201	0.17	<0.01	0.4	11.9
I357909		0.55	2.35	<0.05	1.3	1.62	<0.005	0.30	4.2	49.7	0.07	77	0.35	0.01	1.4	3.5
I357910		0.51	3.63	0.05	0.5	>100	0.008	0.23	3.4	54.1	0.04	36	0.81	0.01	1.1	2.4
I357911		1.82	3.14	<0.05	1.6	0.65	0.012	0.47	11.6	10.4	0.17	410	0.13	0.02	1.8	5.9



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**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
.980260		410	1.4	18.3	<0.002	0.10	2.31	3.3	2	0.3	159.5	0.09	0.05	1.2	0.039	0.71
.980261		520	1.3	7.1	<0.002	0.01	0.23	0.6	1	0.2	34.7	0.06	<0.05	0.6	0.026	0.06
.980262		830	2.9	16.6	0.009	0.02	1.13	4.9	2	0.3	52.7	0.12	0.10	1.7	0.053	0.16
.980263		50	0.5	1.2	<0.002	<0.01	0.08	0.2	1	<0.2	65.6	<0.05	<0.05	<0.2	<0.005	0.02
G0557633		680	25.9	145.0	<0.002	0.10	0.74	19.0	1	2.8	92.4	0.81	0.07	10.0	0.424	1.02
G0557634		640	14.8	81.9	<0.002	0.05	0.47	13.8	1	1.9	59.4	0.54	0.05	9.0	0.288	0.57
G0557635		870	24.2	156.0	0.002	0.12	0.68	17.9	1	2.9	78.1	0.86	0.07	11.6	0.432	0.96
G0557636		430	79.5	8.3	<0.002	0.03	3.10	1.8	1	0.2	73.7	0.08	<0.05	1.6	0.031	0.45
G0557637		300	37.2	12.3	<0.002	0.01	14.60	1.9	1	0.4	158.0	0.13	<0.05	2.3	0.046	0.85
G0557638		280	546	4.6	<0.002	0.01	25.4	1.3	2	0.6	120.0	0.06	<0.05	1.0	0.020	0.47
G0557639		1660	24.3	11.4	<0.002	0.02	16.95	0.5	1	0.6	937	0.15	<0.05	3.7	0.060	1.15
G0557640		230	13.3	0.6	<0.002	<0.01	5.17	1.0	1	<0.2	171.0	<0.05	<0.05	0.3	<0.005	0.27
G0557641		640	0.7	2.6	<0.002	0.06	0.21	0.6	1	<0.2	3270	<0.05	0.05	0.2	0.008	<0.02
G0557642		250	3.7	4.3	<0.002	0.12	0.17	1.0	1	<0.2	1110	<0.05	<0.05	0.8	0.014	0.06
G0557643		160	23.0	120.0	<0.002	0.01	0.73	8.1	1	1.9	46.6	1.02	0.05	12.7	0.360	0.48
L842501		300	0.7	2.4	<0.002	0.03	0.21	0.3	1	<0.2	122.0	<0.05	<0.05	<0.2	0.010	0.07
L842502		790	4.7	21.6	<0.002	0.07	0.78	3.7	1	0.4	227	0.16	0.07	2.0	0.069	0.17
L842503		2700	3.0	6.6	<0.002	0.19	9.90	4.4	4	0.4	75.8	0.13	<0.05	0.8	0.047	23.3
L842504		130	0.5	0.3	0.002	0.09	10.40	0.1	225	<0.2	92.0	<0.05	<0.05	<0.2	<0.005	0.33
L842505		1220	99.4	1.2	<0.002	0.13	0.32	1.6	1	0.3	21.6	0.10	<0.05	2.9	0.032	0.35
L842506		110	5.4	18.3	<0.002	0.07	0.23	1.1	2	0.5	23.0	0.30	<0.05	7.3	0.072	0.13
L842507		40	5.1	7.2	<0.002	0.27	3.60	4.4	1	<0.2	135.0	<0.05	<0.05	<0.2	<0.005	0.29
I357901		10	2.0	0.7	<0.002	<0.01	0.24	0.2	1	<0.2	121.5	<0.05	<0.05	<0.2	<0.005	0.05
I357902		280	698	12.9	<0.002	0.02	45.7	1.6	1	0.4	76.2	0.19	0.08	4.1	0.066	0.74
I357903		510	355	1.3	<0.002	0.01	34.5	0.7	1	<0.2	198.5	<0.05	<0.05	0.2	<0.005	0.27
I357904		110	1.4	0.6	<0.002	0.07	3.45	0.3	1	<0.2	52.1	<0.05	<0.05	0.2	<0.005	0.05
I357905		520	87.9	17.5	<0.002	0.03	3.10	1.2	1	0.5	35.0	0.26	<0.05	4.6	0.089	0.28
I357906		40	2.3	0.7	<0.002	0.01	0.18	0.4	1	<0.2	3.5	<0.05	<0.05	0.5	0.009	0.03
I357907		60	19.1	14.5	<0.002	0.03	0.21	5.4	1	0.4	36.6	0.12	<0.05	2.3	0.050	0.08
I357908		30	14.7	2.1	<0.002	<0.01	0.16	1.3	1	0.2	4.5	<0.05	<0.05	0.5	0.013	0.03
I357909		70	66.3	12.0	<0.002	<0.01	20.0	0.8	1	0.3	33.0	0.11	<0.05	1.6	0.042	0.12
I357910		190	>10000	9.8	<0.002	0.61	1350	0.9	2	0.3	34.9	0.08	<0.05	1.9	0.036	0.59
I357911		100	1215	16.5	<0.002	0.01	2.59	2.0	1	0.4	31.1	0.16	<0.05	5.6	0.082	0.16

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area C,G,F

**CERTIFICATE OF ANALYSIS WH12139328**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Pb- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	Pb	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.1	1	0.1	0.1	2	0.5	0.001	0.1
.980260		3.1	66	0.2	9.5	291	12.4		
.980261		0.7	17	0.1	3.4	38	8.3		
.980262		3.4	63	0.2	11.7	199	29.7		
.980263		0.3	3	<0.1	2.6	16	1.1		
G0557633		2.7	169	1.4	10.2	63	105.5		
G0557634		1.9	111	1.0	16.2	90	78.5		
G0557635		2.6	149	1.5	15.4	90	104.0		
G0557636		1.8	8	0.2	5.5	31	16.8		
G0557637		8.1	12	0.4	7.3	1800	20.6		
G0557638		1.7	6	0.2	3.9	5410	8.0		
G0557639		3.3	8	1.1	5.8	289	31.9		225
G0557640		1.0	3	0.1	2.2	148	3.3		
G0557641		1.1	3	0.1	1.7	10	5.8		
G0557642		1.0	4	0.1	4.5	10	11.3		
G0557643		2.3	68	2.0	15.0	56	137.5		
L842501		1.9	9	0.1	5.4	49	3.1		
L842502		2.4	52	0.3	22.0	206	27.4		
L842503		86.2	213	0.5	38.4	4260	23.2		
L842504		6.5	18	<0.1	12.4	1060	1.1		
L842505		2.0	11	0.2	21.2	92	17.0		
L842506		1.2	8	0.2	5.1	17	80.7		
L842507		0.1	16	0.1	0.4	37	0.9		
I357901		2.3	4	0.1	2.0	13	2.7		
I357902		5.1	21	0.7	6.3	1400	30.2		
I357903		0.8	2	0.1	6.9	261	3.3		
I357904		0.8	2	0.1	0.7	73	2.1		
I357905		1.9	14	0.6	6.8	117	57.1		
I357906		0.1	3	0.1	0.8	27	3.2		
I357907		0.4	21	0.2	21.8	29	14.7		
I357908		0.2	6	0.1	3.7	49	3.6		
I357909		5.7	13	0.4	4.3	151	46.0		
I357910		25.3	19	0.5	1.8	8340	19.9	1.370	327
I357911		0.8	11	0.4	7.5	90	54.6		



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**CERTIFICATE OF ANALYSIS WH12139328**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12140457**

Project: ATAC- Regional  
 P.O. No.:  
 This report is for 39 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

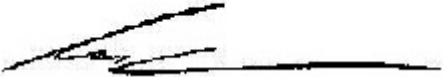
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
EXTRA- 01	Extra Sample received in Shipment
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH12140457**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD019701		0.10	0.017	0.35	1.42	62.6	<0.2	<10	420	0.52	3.13	3.07	1.78	17.00	12.3	35
DD019702		0.09	0.006	0.25	1.03	26.7	<0.2	<10	380	0.46	1.25	2.40	1.38	14.90	7.9	23
DD019703		0.16	0.005	0.27	1.30	28.1	<0.2	<10	320	0.58	1.06	1.69	0.91	21.9	10.7	29
DD019704		0.14	0.006	0.32	1.35	27.4	<0.2	<10	400	0.59	0.99	1.21	0.81	23.3	10.4	29
DD019705		0.17	0.006	0.37	1.22	26.4	<0.2	<10	480	0.52	1.03	1.71	1.92	19.60	9.5	27
DD019706		0.43	0.010	0.39	1.42	27.7	<0.2	<10	430	0.55	0.94	0.96	1.21	24.1	10.7	33
DD019707		0.22	0.007	0.44	1.46	39.9	<0.2	<10	410	0.75	1.33	2.56	1.68	22.1	10.3	30
DD019708		0.17	0.011	0.44	1.72	98.8	<0.2	<10	480	0.82	1.74	1.22	1.91	26.2	11.2	32
DD019709		0.28	0.047	0.24	0.99	21.9	<0.2	<10	330	0.48	2.24	8.65	1.23	16.75	7.5	20
DD019711		0.17	0.006	0.30	1.17	31.1	<0.2	<10	280	0.42	1.31	1.38	1.19	18.10	9.9	31
DD019712		0.25	0.005	0.28	1.08	22.0	<0.2	<10	300	0.36	1.02	2.63	1.13	13.60	9.6	30
DD019713		0.32	0.008	0.31	1.28	27.6	<0.2	<10	300	0.48	1.52	2.11	1.17	16.55	11.1	34
DD019714		0.24	0.006	0.34	1.23	27.5	<0.2	<10	300	0.51	1.89	1.90	1.42	20.2	10.0	29
DD019715		0.33	0.008	0.53	1.41	25.6	<0.2	<10	410	0.65	1.84	2.62	1.72	23.8	11.1	30
DD019716		0.21	0.005	0.36	1.34	24.6	<0.2	<10	230	0.52	3.51	3.64	1.34	17.70	10.1	34
DD019717		0.28	0.009	0.36	1.32	34.1	<0.2	<10	340	0.61	1.08	3.57	1.71	25.7	10.4	28
DD019718		0.24	0.008	0.46	1.24	24.6	<0.2	<10	360	0.52	1.29	2.75	1.38	20.1	9.1	24
DD019719		0.25	0.008	0.50	1.46	33.4	<0.2	<10	310	0.64	3.29	2.82	1.54	21.8	9.9	28
DD019720		0.32	0.011	0.40	1.27	30.6	<0.2	<10	400	0.66	2.17	3.87	1.41	22.3	9.4	28
DD019721		0.23	0.005	0.29	0.95	24.9	<0.2	<10	170	0.49	1.73	5.49	0.84	19.25	7.9	18
DD019722		0.15	0.022	0.22	1.25	29.3	<0.2	<10	140	0.69	3.33	3.55	0.91	20.7	8.0	24
DD019723		0.11	0.007	0.36	1.23	18.5	<0.2	<10	300	0.46	1.70	1.46	2.26	19.00	7.2	25
DD019724		0.10	0.018	0.45	1.35	26.4	<0.2	<10	370	0.69	1.64	1.61	5.43	18.10	9.5	28
DD019725		0.22	0.005	0.48	1.34	28.5	<0.2	<10	310	0.56	1.62	2.18	1.98	16.65	10.3	29
DD019726		0.12	0.006	0.38	1.20	26.8	<0.2	<10	280	0.53	1.21	2.17	3.77	16.15	10.0	26
DD019727		0.19	0.005	0.41	1.34	31.4	<0.2	<10	340	0.55	1.43	1.72	1.39	17.15	10.3	31
DD019728		0.32	0.003	0.20	0.93	12.1	<0.2	<10	240	0.33	4.40	4.31	0.85	20.0	11.3	22
DD019729		0.12	0.002	0.35	1.17	10.9	<0.2	<10	210	0.38	11.15	2.59	0.54	14.90	13.9	34
DD019730		0.11	0.005	0.27	1.53	14.5	<0.2	<10	230	0.42	8.27	2.06	1.02	17.50	18.1	61
DD019731		0.20	0.003	0.23	1.49	17.5	<0.2	<10	320	0.55	2.39	1.40	0.41	19.75	12.9	40
DD019732		0.20	0.003	0.25	1.40	17.1	<0.2	<10	280	0.52	2.48	1.46	0.71	20.2	13.6	42
DD019733		0.20	0.005	0.21	1.90	20.3	<0.2	<10	280	0.53	5.44	1.34	0.74	22.7	19.8	72
DD019734		0.32	0.005	0.24	2.18	22.4	<0.2	<10	370	0.50	2.69	1.67	0.85	19.95	21.8	78
DD019735		0.24	0.003	0.16	2.31	12.1	<0.2	<10	310	0.31	1.37	1.38	0.52	16.85	33.9	159
DD019736		0.15	0.006	0.33	1.55	27.0	<0.2	<10	380	0.49	5.05	2.62	1.35	17.15	17.2	61
DD019737		0.29	0.023	0.15	1.95	18.9	<0.2	<10	260	0.37	6.17	1.20	0.51	16.65	19.8	98
DD019738		0.10	0.007	0.11	1.87	17.4	<0.2	<10	270	0.36	2.15	1.11	0.58	17.60	18.7	86
DD019739		0.14	0.004	0.26	1.64	22.6	<0.2	<10	270	0.46	5.22	1.96	1.01	19.10	16.1	58
DD019740		0.10	0.005	0.33	1.45	28.5	<0.2	<10	310	0.47	3.24	2.44	1.26	15.20	11.0	39



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD019701		2.38	35.7	3.62	3.93	<0.05	0.04	0.05	0.047	0.14	9.1	14.7	1.64	1040	4.05	0.01
DD019702		1.16	29.2	2.06	3.00	<0.05	0.04	0.07	0.043	0.09	7.6	10.7	0.57	389	2.85	0.02
DD019703		1.03	21.9	2.71	3.78	0.05	0.04	0.08	0.045	0.08	10.6	16.6	0.59	606	3.31	0.02
DD019704		1.26	33.0	2.73	3.94	0.05	0.04	0.08	0.039	0.08	11.3	14.4	0.61	482	3.10	0.02
DD019705		1.13	35.3	2.55	3.55	0.05	0.05	0.08	0.039	0.08	10.0	13.1	0.75	476	3.44	0.02
DD019706		1.32	35.3	2.90	4.24	0.06	0.05	0.07	0.038	0.08	12.1	14.6	0.66	565	4.27	0.03
DD019707		2.06	36.3	2.79	4.28	0.05	0.06	0.08	0.051	0.12	11.3	15.1	1.58	511	5.08	0.03
DD019708		1.84	56.2	3.32	4.79	0.07	0.04	0.09	0.075	0.10	13.9	15.6	0.92	507	6.40	0.03
DD019709		2.59	24.9	1.89	2.86	0.05	0.06	0.04	0.028	0.13	8.7	11.3	4.39	457	2.90	0.02
DD019711		4.22	28.0	2.51	3.43	<0.05	0.04	0.06	0.041	0.09	9.3	13.3	0.65	404	1.94	0.02
DD019712		3.20	34.2	2.26	3.16	<0.05	0.03	0.06	0.031	0.08	7.1	12.2	0.79	530	1.60	0.02
DD019713		3.56	29.3	2.62	3.75	0.05	0.03	0.06	0.041	0.10	8.6	15.1	0.87	604	2.03	0.02
DD019714		2.18	32.8	2.63	3.50	0.05	0.04	0.06	0.041	0.10	10.0	14.2	0.97	522	2.59	0.02
DD019715		2.22	44.1	2.75	3.92	0.06	0.05	0.09	0.055	0.13	12.1	16.4	1.51	706	3.08	0.02
DD019716		3.66	31.3	2.70	3.90	0.05	0.04	0.05	0.037	0.11	9.1	14.8	2.20	429	2.26	0.03
DD019717		1.53	44.4	3.01	3.61	0.06	0.07	0.08	0.045	0.14	13.0	14.4	1.89	449	5.76	0.02
DD019718		1.32	31.7	2.56	3.36	0.05	0.05	0.07	0.035	0.10	10.3	13.2	1.44	466	3.20	0.02
DD019719		2.40	32.2	2.70	4.11	0.05	0.05	0.07	0.050	0.11	10.9	17.0	1.80	249	3.36	0.02
DD019720		2.02	36.8	2.65	3.57	0.05	0.06	0.05	0.045	0.11	11.7	14.2	2.65	488	3.96	0.02
DD019721		1.35	26.5	2.20	2.57	0.05	0.06	0.05	0.026	0.09	9.5	10.8	3.53	421	2.36	0.02
DD019722		2.00	28.9	2.40	3.36	0.05	0.05	0.06	0.040	0.06	11.0	12.7	2.46	422	3.22	0.02
DD019723		1.47	24.7	2.11	3.45	0.05	0.04	0.08	0.038	0.06	9.7	14.2	0.67	185	5.56	0.02
DD019724		2.05	41.9	2.55	3.67	0.05	0.04	0.08	0.040	0.06	9.6	13.7	0.66	440	4.61	0.03
DD019725		2.24	41.2	2.71	3.87	0.05	0.05	0.07	0.038	0.07	8.9	14.6	1.18	446	7.61	0.03
DD019726		1.83	34.3	2.21	3.60	0.05	0.04	0.06	0.035	0.06	8.4	14.4	0.87	426	3.36	0.03
DD019727		2.05	36.8	2.53	3.90	0.06	0.03	0.07	0.047	0.07	8.8	14.1	0.67	432	3.45	0.03
DD019728		1.81	21.2	2.17	2.93	0.05	0.04	0.04	0.021	0.09	9.5	11.6	1.84	564	1.50	0.03
DD019729		1.91	30.2	2.57	3.71	<0.05	0.02	0.04	0.024	0.08	7.3	15.3	0.64	465	1.07	0.03
DD019730		2.28	47.3	3.24	4.62	0.07	0.20	0.04	0.031	0.09	8.4	18.8	0.93	655	1.33	0.03
DD019731		1.03	27.2	3.14	4.25	0.08	0.05	0.05	0.031	0.07	10.5	18.7	0.63	588	1.97	0.02
DD019732		1.17	34.4	3.14	4.02	0.09	0.05	0.06	0.030	0.08	10.7	17.9	0.79	797	2.14	0.02
DD019733		1.52	38.8	3.81	5.74	0.11	0.05	0.05	0.036	0.09	12.8	27.2	0.93	744	2.10	0.05
DD019734		2.46	50.8	4.07	6.55	0.11	0.05	0.06	0.039	0.14	11.0	27.5	1.57	632	2.79	0.03
DD019735		1.58	49.0	4.13	8.74	0.13	0.05	0.04	0.034	0.06	9.1	38.9	1.85	837	1.73	0.02
DD019736		2.94	55.5	3.17	5.19	0.05	0.04	0.06	0.037	0.09	9.8	19.9	0.97	420	1.36	0.03
DD019737		2.37	36.9	3.79	6.24	0.11	0.06	0.04	0.028	0.09	9.1	25.8	1.35	502	1.62	0.03
DD019738		1.86	35.2	3.39	6.02	0.12	0.05	0.04	0.030	0.07	9.3	27.2	1.27	763	1.69	0.02
DD019739		3.41	34.7	3.33	5.16	0.09	0.04	0.05	0.034	0.09	10.4	20.6	1.14	599	1.56	0.03
DD019740		2.58	33.5	2.70	4.43	0.07	0.05	0.07	0.037	0.10	8.5	15.3	1.08	436	1.99	0.03



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Project: ATAC- Regional  
**CERTIFICATE OF ANALYSIS WH12140457**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD019701		1.06	46.9	850	35.3	18.2	0.003	0.08	2.00	2.7	2.1	1.7	40.9	<0.01	0.07	1.5
DD019702		0.92	34.6	620	29.4	10.3	0.003	0.11	1.82	2.0	1.3	1.5	38.0	<0.01	0.05	1.0
DD019703		1.16	33.2	460	30.1	8.5	0.001	0.07	1.61	2.6	1.1	1.5	34.6	<0.01	0.04	1.3
DD019704		1.15	40.1	700	25.6	10.1	0.001	0.07	1.57	3.0	1.2	1.5	31.1	<0.01	0.05	1.6
DD019705		1.01	39.6	890	27.1	10.0	0.001	0.07	2.09	2.8	2.5	1.1	34.7	<0.01	0.04	1.4
DD019706		1.21	44.5	900	23.7	10.2	0.001	0.04	2.03	3.6	1.5	1.1	29.9	<0.01	0.05	2.2
DD019707		1.18	48.7	720	32.1	14.1	0.001	0.05	2.60	3.3	2.0	1.7	34.7	<0.01	0.05	2.2
DD019708		1.30	56.1	690	44.2	12.6	0.002	0.05	2.63	3.8	2.1	3.2	31.2	<0.01	0.06	2.1
DD019709		0.93	30.2	680	23.3	17.6	0.002	0.05	1.48	2.3	1.4	0.9	70.5	<0.01	0.03	2.0
DD019711		1.14	46.1	580	25.1	15.7	0.002	0.07	1.40	2.4	1.2	5.3	27.6	<0.01	0.03	1.4
DD019712		1.00	44.6	640	22.1	20.2	<0.001	0.10	1.37	2.1	1.3	0.9	34.3	<0.01	0.04	0.8
DD019713		1.18	44.6	730	29.7	22.2	0.001	0.10	1.48	2.5	1.2	1.2	36.4	<0.01	0.04	1.2
DD019714		1.09	42.0	820	28.3	17.5	0.003	0.08	1.64	2.7	1.3	1.1	32.1	<0.01	0.04	1.6
DD019715		1.20	45.7	880	43.8	18.2	0.002	0.05	2.23	3.3	1.8	1.6	40.4	<0.01	0.05	2.3
DD019716		1.14	42.6	780	28.1	27.9	0.003	0.08	1.48	3.0	1.6	1.3	36.3	<0.01	0.04	1.6
DD019717		1.07	46.3	960	36.2	12.5	0.001	0.04	2.86	4.0	1.4	1.3	56.7	<0.01	0.06	3.8
DD019718		0.91	33.9	930	27.8	13.1	<0.001	0.06	1.84	2.7	1.5	1.3	35.6	<0.01	0.04	1.5
DD019719		1.08	43.8	870	35.8	20.0	0.002	0.08	1.78	3.0	1.6	1.8	37.2	<0.01	0.03	2.2
DD019720		1.04	41.4	860	31.2	14.0	0.001	0.03	2.06	3.4	1.3	1.4	43.1	<0.01	0.06	3.0
DD019721		0.85	28.9	790	22.9	10.8	0.001	0.03	1.48	2.8	1.0	0.8	49.3	<0.01	0.03	2.5
DD019722		1.06	33.2	720	28.2	12.6	0.001	0.04	1.70	3.3	1.6	1.4	32.6	<0.01	0.04	2.5
DD019723		1.05	45.5	870	22.1	13.9	0.016	0.11	1.32	2.3	6.6	1.0	33.0	<0.01	0.05	1.3
DD019724		0.95	72.1	800	25.6	11.9	0.003	0.08	1.95	2.2	3.1	1.1	32.6	<0.01	0.04	1.0
DD019725		1.04	49.6	720	22.1	13.8	0.004	0.07	2.50	2.9	2.7	0.9	38.3	<0.01	0.07	1.8
DD019726		1.02	49.9	720	22.9	12.9	0.007	0.09	1.76	2.1	4.5	1.0	38.6	<0.01	0.05	1.0
DD019727		1.06	44.7	760	27.0	13.4	0.002	0.06	1.94	2.4	2.3	1.6	37.3	<0.01	0.05	1.1
DD019728		1.39	29.3	740	18.9	11.5	0.001	0.02	0.92	2.7	0.7	0.4	46.2	<0.01	0.04	2.5
DD019729		2.22	37.3	700	14.7	14.8	0.001	0.12	0.73	2.8	0.8	0.5	41.7	0.01	0.06	0.9
DD019730		2.11	61.1	870	16.3	16.9	0.001	0.10	0.88	3.7	0.8	0.6	36.2	<0.01	0.06	1.1
DD019731		1.23	37.5	640	21.4	9.5	<0.001	0.06	0.95	3.5	0.8	0.6	31.1	<0.01	0.04	1.7
DD019732		1.00	44.4	860	25.0	10.1	<0.001	0.05	1.15	3.8	0.8	0.5	30.2	<0.01	0.04	1.8
DD019733		1.38	74.7	990	18.8	13.2	<0.001	0.05	0.89	5.4	0.9	0.7	36.1	<0.01	0.04	2.1
DD019734		1.61	78.4	1060	19.1	18.4	<0.001	0.05	1.15	6.1	1.0	0.8	33.3	<0.01	0.04	2.3
DD019735		4.25	146.5	1540	11.5	8.5	<0.001	0.05	0.51	7.0	0.6	0.6	32.7	0.01	0.03	1.8
DD019736		1.71	69.5	850	20.0	16.2	0.001	0.12	1.17	3.4	1.3	1.0	46.7	<0.01	0.05	0.9
DD019737		2.03	74.4	800	18.1	12.6	<0.001	0.05	0.81	4.3	0.7	1.1	27.7	0.01	0.04	1.7
DD019738		2.03	60.9	510	14.8	12.3	<0.001	0.05	0.62	4.9	0.8	0.7	25.2	0.01	0.03	1.7
DD019739		1.77	54.8	850	22.1	17.2	0.001	0.08	0.88	3.7	0.9	0.8	39.2	<0.01	0.04	1.4
DD019740		1.16	42.7	850	27.9	19.1	0.001	0.09	1.29	2.8	1.0	1.2	37.9	<0.01	0.04	1.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Plus Appendix Pages  
 Finalized Date: 29- JUN- 2012  
 Account: RCM

Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12140457**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD019701		0.040	0.32	1.06	62	3.92	7.00	240	1.6
DD019702		0.023	0.19	1.42	48	1.31	6.77	161	1.8
DD019703		0.029	0.16	0.69	61	1.07	7.67	144	1.2
DD019704		0.030	0.18	1.44	62	0.90	8.87	138	1.4
DD019705		0.028	0.21	1.62	58	0.65	8.57	181	1.7
DD019706		0.038	0.24	1.38	67	0.87	9.60	171	1.7
DD019707		0.033	0.36	1.11	73	1.92	9.59	261	2.2
DD019708		0.032	0.31	1.75	77	9.49	14.65	244	1.6
DD019709		0.033	0.30	0.83	37	10.20	7.40	163	1.8
DD019711		0.037	0.29	0.78	52	1.82	6.76	194	1.2
DD019712		0.038	0.30	1.24	41	0.82	5.92	181	1.1
DD019713		0.044	0.37	1.04	49	2.51	6.99	225	1.2
DD019714		0.036	0.28	1.08	50	3.05	8.02	218	1.4
DD019715		0.039	0.36	1.30	58	1.39	9.85	224	1.9
DD019716		0.053	0.37	1.04	49	4.67	7.72	229	1.2
DD019717		0.037	0.33	0.94	78	0.50	10.25	186	3.1
DD019718		0.028	0.22	1.36	49	1.03	9.04	164	1.5
DD019719		0.036	0.36	1.52	60	2.95	8.83	279	1.9
DD019720		0.037	0.36	1.26	52	3.24	9.30	214	2.4
DD019721		0.029	0.21	0.63	35	2.66	7.53	139	1.9
DD019722		0.034	0.29	0.97	52	6.52	10.65	155	1.6
DD019723		0.030	0.23	2.97	51	1.46	7.60	322	1.3
DD019724		0.029	0.28	1.95	63	1.95	9.43	576	1.2
DD019725		0.034	0.35	1.52	62	2.79	8.28	205	1.8
DD019726		0.030	0.31	2.02	62	0.95	7.84	329	1.2
DD019727		0.034	0.33	1.82	68	1.06	8.25	219	1.3
DD019728		0.044	0.20	0.57	35	0.85	6.88	132	1.5
DD019729		0.048	0.17	0.91	42	0.75	5.99	91	1.0
DD019730		0.070	0.20	0.80	58	0.51	8.02	130	1.0
DD019731		0.044	0.12	1.31	53	0.60	8.80	110	1.5
DD019732		0.042	0.14	0.73	51	0.82	9.00	132	1.4
DD019733		0.065	0.16	0.55	70	0.81	9.30	132	1.4
DD019734		0.097	0.24	0.53	75	0.59	9.14	134	2.0
DD019735		0.149	0.13	0.43	103	0.50	6.05	97	1.6
DD019736		0.060	0.26	0.92	55	2.07	8.95	144	1.5
DD019737		0.093	0.20	0.56	69	5.72	7.13	126	1.6
DD019738		0.088	0.19	0.56	69	2.62	6.13	111	1.6
DD019739		0.068	0.23	0.60	59	1.86	8.52	173	1.2
DD019740		0.045	0.26	0.84	56	3.42	6.87	200	1.5



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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12140457**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12145882**

Project: ATAC- Regional Area G (Midway)  
 P.O. No.: Soil 8  
 This report is for 216 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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 Account: RCM

Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026591		0.28	0.003	0.05	0.55	11	<0.2	<10	90	0.32	0.10	13.25	0.30	15.30	4.0	8
DD026592		0.17	0.010	0.18	0.66	8.5	<0.2	<10	230	0.34	0.12	3.73	1.34	8.62	2.9	12
DD026593		0.27	0.001	0.84	1.04	27.8	<0.2	<10	650	0.60	0.24	1.46	1.14	25.2	8.1	29
DD026594		0.33	0.002	0.91	0.62	20.7	<0.2	<10	270	0.53	0.19	0.68	1.33	22.7	7.9	25
DD026595		0.23	0.004	0.26	0.89	24.4	<0.2	<10	290	0.49	0.18	2.68	2.45	16.60	6.6	19
DD026596		0.18	0.003	0.11	0.28	1.5	<0.2	<10	270	0.14	0.05	4.34	1.51	3.66	1.5	4
DD026597		0.32	0.007	0.11	1.47	11.7	<0.2	<10	190	0.48	0.22	1.18	1.35	32.0	9.0	27
DD026598		0.33	0.008	0.28	1.07	10.0	<0.2	<10	400	0.45	0.20	1.45	0.93	26.0	7.2	27
DD026599		0.27	0.003	0.34	0.94	10.0	<0.2	<10	300	0.53	0.19	1.50	1.10	20.6	6.0	23
DD026600		0.33	0.007	0.29	0.85	8.2	<0.2	<10	300	0.49	0.21	0.65	0.76	18.70	7.1	20
DD026601		0.30	0.004	0.27	1.49	12.3	<0.2	<10	280	0.62	0.22	1.39	2.65	40.0	9.6	28
DD026602		0.25	0.003	0.07	1.38	9.1	<0.2	<10	610	0.33	0.31	1.05	0.95	22.9	9.8	27
DD026603		0.29	0.004	0.23	1.20	10.9	<0.2	<10	270	0.44	0.19	1.61	1.72	29.4	8.6	35
DD026604		0.17	0.008	0.14	0.66	4.1	<0.2	<10	430	0.32	0.12	3.27	0.85	8.08	3.5	12
DD026605		0.28	0.002	0.20	1.46	9.5	<0.2	<10	240	0.37	0.23	0.38	0.63	25.3	5.7	33
DD026606		0.30	0.004	0.34	1.09	11.7	<0.2	<10	260	0.42	0.21	1.81	1.41	27.8	9.5	31
DD026607		0.20	0.007	0.18	0.68	7.3	<0.2	<10	620	0.27	0.16	2.95	2.37	27.3	6.9	18
DD026608		0.36	0.002	0.29	0.69	36.2	<0.2	<10	430	0.54	0.22	2.41	1.06	25.1	10.3	25
DD026609		0.31	0.002	0.84	0.66	12.2	<0.2	<10	250	0.32	0.16	3.96	0.94	22.9	6.5	17
DD026610		0.24	0.003	1.36	0.95	13.8	<0.2	<10	460	0.46	0.25	1.11	1.06	24.3	7.9	26
DD026611		0.15	0.005	0.80	0.64	9.3	<0.2	<10	330	0.36	0.18	2.77	1.63	17.70	4.5	22
DD026612		0.41	0.003	0.66	0.37	7.9	<0.2	<10	240	0.32	0.21	0.15	0.32	8.78	6.5	8
DD026613		0.25	0.012	3.42	0.87	19.8	<0.2	10	520	0.51	0.19	3.59	1.78	19.15	5.8	31
DD026614		0.35	0.009	0.87	0.39	35.9	<0.2	<10	780	0.62	0.19	7.18	1.69	14.80	2.5	15
DD026615		0.31	0.010	3.62	1.00	53.7	<0.2	10	1230	1.12	0.37	1.80	11.00	24.8	6.6	168
DD026616		0.41	0.001	0.06	0.21	17	<0.2	<10	70	0.19	0.03	16.55	0.34	8.98	3.1	7
DD026617		0.33	0.002	0.06	0.37	18	<0.2	<10	100	0.20	0.06	14.20	0.19	12.35	4.9	8
DD026618		0.41	0.002	0.02	0.14	9	<0.2	<10	90	0.14	0.04	17.15	0.09	7.48	3.8	4
DD026619		0.35	0.001	0.09	0.53	13	<0.2	<10	170	0.27	0.09	13.20	0.30	15.30	5.2	7
DD026620		0.22	0.003	0.08	0.50	27	<0.2	<10	120	0.41	0.09	11.90	0.31	17.60	7.0	17
DD026621		0.23	0.003	0.11	1.56	15.2	<0.2	<10	160	0.64	0.28	1.17	0.49	34.4	11.4	27
DD026622		0.25	0.004	0.10	1.84	14.1	<0.2	<10	200	0.69	0.26	0.66	0.49	38.8	11.2	28
DD026623		0.27	0.004	0.09	0.67	12	<0.2	<10	70	0.32	0.13	12.50	0.54	13.65	5.2	13
DD026624		0.33	0.004	0.13	1.07	12.2	<0.2	<10	390	0.45	0.18	6.90	0.50	27.0	7.7	20
DD026625		0.34	0.003	0.15	1.37	13.9	<0.2	<10	120	0.49	0.23	3.75	0.61	32.8	9.2	23
DD026626		0.39	0.002	0.05	0.43	5	<0.2	<10	40	0.17	0.06	12.60	0.19	12.15	3.6	8
DD026627		0.32	0.002	0.05	0.41	14	<0.2	<10	40	0.30	0.13	15.40	0.26	9.69	4.6	12
DD026628		0.37	0.002	0.03	0.19	6	<0.2	<10	30	0.16	0.07	18.95	0.09	6.92	2.7	9
DD026629		0.32	0.001	0.07	0.49	9	<0.2	<10	50	0.31	0.10	14.40	0.34	11.75	3.9	9
DD026630		0.29	0.002	0.13	1.11	11.7	<0.2	<10	130	0.66	0.22	6.73	0.67	22.6	8.5	17



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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026591		0.42	7.3	0.84	1.25	<0.05	0.06	0.04	0.015	0.04	11.8	2.5	8.17	956	0.74	0.03
DD026592		0.43	12.7	0.78	1.29	0.05	0.03	0.12	0.015	0.03	10.6	2.3	0.16	381	0.96	0.01
DD026593		1.27	19.9	2.29	2.87	0.07	0.11	0.07	0.043	0.08	26.2	10.6	0.21	430	1.76	0.03
DD026594		1.02	24.0	2.21	1.75	0.09	0.14	0.09	0.039	0.10	28.0	6.9	0.11	237	3.91	0.02
DD026595		0.59	17.1	1.67	2.38	0.07	0.08	0.09	0.030	0.05	28.9	4.1	0.14	782	1.12	0.02
DD026596		0.18	9.5	0.37	0.70	<0.05	0.03	0.10	0.005	0.03	3.6	1.0	0.09	356	0.57	0.01
DD026597		1.15	14.5	2.56	4.06	0.06	0.03	0.05	0.029	0.04	19.6	9.4	0.31	566	1.26	0.02
DD026598		0.78	15.8	2.26	3.06	0.06	0.05	0.06	0.027	0.06	21.0	8.2	0.27	297	1.19	0.02
DD026599		0.60	17.5	2.04	2.56	0.07	0.07	0.06	0.031	0.07	26.2	6.9	0.21	293	1.20	0.02
DD026600		1.18	22.1	2.00	2.32	0.06	0.08	0.08	0.030	0.10	13.8	6.6	0.20	187	1.06	0.02
DD026601		1.36	16.1	2.61	3.76	0.07	0.05	0.06	0.032	0.06	23.0	10.3	0.72	652	1.30	0.03
DD026602		1.40	13.5	2.59	6.23	0.05	0.02	0.04	0.031	0.05	11.2	11.1	0.27	622	1.60	0.02
DD026603		0.79	17.2	2.35	3.33	0.07	0.05	0.07	0.027	0.06	25.4	9.4	0.33	474	1.47	0.03
DD026604		0.48	13.7	0.98	1.82	<0.05	0.04	0.09	0.012	0.03	6.2	3.7	0.12	360	0.88	0.01
DD026605		1.55	14.1	2.76	5.72	0.06	0.02	0.05	0.030	0.05	12.1	23.3	0.21	179	2.61	0.02
DD026606		0.83	22.8	2.57	3.22	0.08	0.08	0.07	0.031	0.07	21.1	9.3	0.39	343	1.67	0.03
DD026607		0.39	10.1	1.79	1.90	0.08	0.08	0.11	0.026	0.03	38.1	2.1	0.06	736	2.02	0.03
DD026608		1.38	31.8	2.37	2.10	0.08	0.08	0.29	0.039	0.08	24.0	5.6	0.17	339	2.83	0.02
DD026609		0.62	21.0	1.87	1.88	0.06	0.05	0.08	0.027	0.05	18.5	6.4	0.64	275	6.22	0.02
DD026610		0.67	29.1	2.26	2.80	0.08	0.08	0.13	0.043	0.08	20.9	9.9	0.21	184	3.49	0.02
DD026611		0.57	22.0	1.58	1.63	0.07	0.06	0.13	0.032	0.05	24.6	4.0	0.12	202	2.84	0.03
DD026612		2.71	29.4	2.62	1.01	0.05	0.03	0.07	0.038	0.09	3.6	3.4	0.05	107	1.72	0.02
DD026613		1.02	39.1	2.16	2.25	0.07	0.10	0.16	0.035	0.13	15.1	5.5	1.45	251	6.17	0.03
DD026614		1.09	48.9	1.87	1.52	0.08	0.05	0.39	0.032	0.18	10.1	2.3	3.95	167	76.8	0.04
DD026615		1.56	84.7	3.31	4.14	0.15	0.16	0.38	0.093	0.19	24.6	9.0	0.38	61	54.3	0.03
DD026616		0.32	4.9	0.65	0.60	<0.05	0.03	0.15	0.007	0.04	5.9	1.6	10.20	227	6.09	0.04
DD026617		0.49	8.4	1.12	1.07	<0.05	0.05	0.16	0.012	0.03	8.2	2.8	8.22	335	2.27	0.04
DD026618		0.34	4.2	0.55	0.42	<0.05	0.03	0.04	0.007	0.03	5.6	1.1	10.70	299	0.97	0.03
DD026619		0.49	8.1	0.85	1.28	<0.05	0.06	0.04	0.015	0.04	10.9	2.7	8.16	745	1.46	0.03
DD026620		1.15	11.2	1.70	1.35	0.05	0.10	0.07	0.028	0.08	11.4	2.5	6.92	409	2.57	0.03
DD026621		1.17	18.7	2.85	4.67	0.06	0.04	0.05	0.037	0.07	17.4	12.5	0.72	634	1.80	0.03
DD026622		1.35	18.0	2.91	4.84	0.06	0.07	0.05	0.034	0.05	15.1	13.4	0.58	487	2.54	0.03
DD026623		0.36	10.6	1.21	1.64	<0.05	0.05	0.06	0.020	0.05	7.8	4.1	7.41	266	1.97	0.04
DD026624		0.64	13.7	1.90	2.81	0.05	0.04	0.07	0.029	0.05	14.0	7.8	4.15	368	1.64	0.03
DD026625		0.83	18.1	2.42	3.52	0.06	0.05	0.04	0.034	0.06	17.4	9.8	2.35	430	2.90	0.03
DD026626		0.32	6.9	0.79	1.21	<0.05	0.03	0.04	0.011	0.03	7.0	3.6	7.65	134	0.71	0.03
DD026627		0.30	9.7	1.06	1.03	<0.05	0.06	0.06	0.020	0.04	4.9	3.3	8.66	207	2.51	0.02
DD026628		0.89	8.6	0.72	0.50	<0.05	0.03	0.02	0.010	0.05	3.4	2.4	9.71	65	1.96	0.04
DD026629		0.33	9.2	0.88	1.18	<0.05	0.04	0.05	0.013	0.03	5.8	4.1	8.51	281	0.88	0.01
DD026630		0.65	15.6	1.96	2.67	<0.05	0.03	0.08	0.031	0.05	9.7	9.6	3.79	596	2.55	0.01



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD026591		0.17	9.4	1690	11.0	4.6	0.001	0.09	0.48	0.8	0.7	0.2	71.7	0.01	0.03	0.4
DD026592		0.33	11.1	1350	6.1	2.6	0.001	0.25	0.39	0.4	1.5	0.2	59.4	<0.01	0.05	<0.2
DD026593		0.22	32.6	1200	15.9	10.0	0.001	0.10	0.92	2.1	2.3	0.4	30.0	0.01	0.17	0.9
DD026594		0.13	43.5	1160	14.2	8.4	0.001	0.05	0.97	3.7	3.0	0.3	28.1	0.01	0.13	1.8
DD026595		0.25	21.1	1850	12.0	5.9	0.001	0.18	0.75	1.3	1.5	0.3	34.9	0.02	0.11	0.3
DD026596		0.13	5.0	1290	2.9	1.3	<0.001	0.26	0.22	0.2	0.3	<0.2	48.3	<0.01	0.02	<0.2
DD026597		0.47	23.1	1080	13.2	7.7	<0.001	0.10	0.86	1.6	0.9	0.4	20.4	0.01	0.06	0.5
DD026598		0.46	24.6	810	12.5	8.0	<0.001	0.08	0.89	2.1	1.0	0.4	26.1	0.01	0.06	0.7
DD026599		0.28	24.8	1150	12.7	7.4	<0.001	0.11	0.83	1.8	1.3	0.3	24.5	0.01	0.08	0.6
DD026600		0.27	31.5	620	13.5	9.4	<0.001	0.06	0.96	3.2	1.4	0.3	16.3	0.01	0.07	1.5
DD026601		0.48	27.4	960	14.2	14.0	<0.001	0.08	0.89	2.6	1.0	0.5	20.3	0.01	0.06	0.9
DD026602		0.70	17.0	1060	16.4	11.3	<0.001	0.10	0.96	1.8	0.7	0.7	25.5	0.01	0.05	0.4
DD026603		0.45	24.4	790	12.2	7.8	<0.001	0.10	0.92	2.0	1.1	0.4	28.9	0.01	0.05	0.5
DD026604		0.40	12.5	970	6.4	4.5	0.001	0.22	0.45	0.7	0.6	0.2	49.7	<0.01	0.04	0.2
DD026605		0.81	22.3	390	14.1	10.9	0.001	0.04	0.75	2.5	1.5	0.6	11.8	0.01	0.06	1.4
DD026606		0.67	37.4	870	15.5	7.5	<0.001	0.04	1.07	3.9	1.3	0.4	40.4	0.01	0.06	3.2
DD026607		0.26	13.6	1510	11.9	4.5	0.001	0.23	0.46	1.8	1.9	0.2	46.2	0.02	0.18	0.3
DD026608		0.27	60.7	890	14.7	7.3	0.001	0.03	1.43	5.0	1.6	0.4	67.7	0.01	0.11	2.8
DD026609		0.23	40.4	810	10.6	5.6	0.001	0.08	0.98	1.4	3.3	0.3	45.0	0.01	0.07	0.5
DD026610		0.32	55.1	660	15.1	8.3	0.001	0.08	1.23	2.4	4.2	0.4	35.0	0.01	0.10	1.0
DD026611		0.22	33.7	1380	9.6	6.6	0.001	0.17	0.74	1.1	3.3	0.3	56.1	0.01	0.08	0.2
DD026612		0.05	38.2	540	14.2	9.3	0.003	0.08	1.77	2.9	1.4	0.2	15.0	<0.01	0.18	1.7
DD026613		0.23	54.6	2690	11.9	9.5	0.002	0.24	1.79	1.9	5.0	0.4	69.1	0.01	0.08	0.9
DD026614		0.08	91.7	960	14.0	9.2	0.009	0.41	8.89	2.1	11.0	0.6	121.0	<0.01	0.26	0.9
DD026615		0.15	207	3560	18.6	13.2	0.014	0.27	10.20	5.0	15.4	1.0	182.5	0.02	0.47	1.6
DD026616		0.15	11.6	640	6.0	1.8	0.001	0.03	5.75	1.0	0.5	<0.2	96.9	<0.01	0.02	0.5
DD026617		0.18	13.7	770	10.0	2.8	<0.001	0.05	1.45	1.2	0.5	0.2	96.8	<0.01	0.03	0.5
DD026618		0.08	9.0	650	6.9	1.5	<0.001	0.03	1.23	0.9	0.4	<0.2	109.0	<0.01	0.02	0.5
DD026619		0.13	12.2	1380	13.3	3.8	<0.001	0.08	2.42	0.8	0.6	0.2	71.3	0.01	0.03	0.4
DD026620		0.15	24.2	1120	13.6	4.5	0.001	0.10	1.64	2.3	0.7	0.2	79.0	0.01	0.04	0.6
DD026621		0.53	27.3	1020	15.9	11.7	<0.001	0.09	1.40	2.3	0.8	0.5	21.3	0.01	0.06	0.8
DD026622		0.74	29.4	680	14.7	9.7	0.001	0.07	1.26	3.4	0.8	0.5	18.5	0.01	0.05	2.0
DD026623		0.26	16.4	720	7.4	5.7	0.001	0.08	0.84	1.3	0.6	0.2	92.4	<0.01	0.03	0.4
DD026624		0.41	21.1	750	11.7	7.6	<0.001	0.08	1.33	1.9	0.7	0.4	48.7	0.01	0.04	0.7
DD026625		0.45	26.2	870	14.1	8.8	<0.001	0.09	1.25	2.2	0.8	0.4	32.0	0.01	0.05	0.9
DD026626		0.35	10.3	270	3.9	2.9	<0.001	0.04	0.82	1.4	0.4	0.2	90.4	<0.01	0.02	1.0
DD026627		0.20	13.2	490	5.7	4.8	0.001	0.09	0.71	2.0	0.6	0.2	121.5	<0.01	0.04	0.5
DD026628		0.21	10.5	140	7.9	3.7	0.001	0.08	0.11	2.6	0.4	<0.2	187.0	<0.01	0.03	0.6
DD026629		0.26	8.9	660	5.6	4.6	<0.001	0.07	0.67	1.4	0.6	0.2	68.0	<0.01	0.03	0.5
DD026630		0.40	20.2	1270	12.4	8.6	<0.001	0.13	1.26	1.4	0.9	0.4	35.7	<0.01	0.05	0.4





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026591		0.009	0.32	1.38	16	0.07	19.25	49	1.5
DD026592		0.011	0.20	3.40	13	0.05	22.1	90	1.2
DD026593		0.008	0.24	1.19	37	0.17	38.4	139	2.0
DD026594		0.006	0.24	1.63	29	0.09	46.5	176	3.4
DD026595		0.007	0.16	1.60	28	0.09	50.5	171	1.3
DD026596		0.006	0.07	0.45	6	<0.05	5.96	122	0.8
DD026597		0.021	0.11	1.52	43	0.50	20.4	109	<0.5
DD026598		0.018	0.09	0.96	38	0.37	28.2	92	0.7
DD026599		0.010	0.11	1.05	32	0.13	39.8	106	1.1
DD026600		0.011	0.11	0.98	28	0.14	22.3	108	1.9
DD026601		0.021	0.14	1.53	38	0.23	27.5	176	0.6
DD026602		0.028	0.13	0.75	58	0.24	7.71	116	<0.5
DD026603		0.025	0.09	0.67	43	0.35	40.0	131	0.6
DD026604		0.013	0.09	0.63	17	0.06	10.95	77	1.3
DD026605		0.021	0.14	0.92	61	0.22	8.52	82	<0.5
DD026606		0.037	0.11	0.88	41	0.18	32.7	140	2.1
DD026607		0.009	0.06	1.27	23	0.14	62.1	78	0.7
DD026608		0.010	0.60	1.27	34	0.16	39.8	196	1.9
DD026609		0.012	0.11	1.34	27	0.22	23.4	113	1.0
DD026610		0.009	0.15	1.36	36	0.17	26.3	134	1.8
DD026611		0.007	0.12	2.46	25	0.17	41.2	185	1.1
DD026612		<0.005	0.12	1.27	18	<0.05	7.37	156	0.7
DD026613		0.007	0.40	2.38	45	0.13	27.4	274	2.6
DD026614		<0.005	3.25	6.01	183	0.19	16.40	151	2.2
DD026615		<0.005	2.80	11.45	221	0.30	64.8	540	4.6
DD026616		0.010	0.33	2.15	14	0.10	7.79	35	0.9
DD026617		0.008	0.44	1.18	13	0.22	10.15	27	1.3
DD026618		<0.005	0.35	1.03	6	<0.05	9.62	15	0.9
DD026619		0.006	0.28	1.12	16	0.08	15.90	48	1.4
DD026620		<0.005	0.99	1.27	17	0.06	15.95	44	2.7
DD026621		0.026	0.20	0.94	46	0.18	11.75	111	0.9
DD026622		0.030	0.20	1.21	48	0.22	7.60	91	1.7
DD026623		0.013	0.27	0.73	23	0.11	6.26	77	1.4
DD026624		0.020	0.27	0.78	33	0.18	11.00	104	0.8
DD026625		0.026	0.21	0.92	42	0.18	13.05	130	1.0
DD026626		0.015	0.10	0.52	14	0.08	5.66	32	0.9
DD026627		0.007	0.60	0.72	13	0.05	5.52	48	2.1
DD026628		<0.005	0.24	0.60	6	<0.05	3.05	16	1.3
DD026629		0.010	0.22	0.52	15	0.07	6.01	58	1.4
DD026630		0.014	0.31	1.08	33	0.13	7.84	130	0.8



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026631		0.30	0.002	0.04	0.34	11	<0.2	<10	40	0.28	0.06	17.45	0.32	8.26	2.7	5
DD026632		0.37	0.001	0.03	0.27	7	<0.2	<10	30	0.22	0.04	18.00	0.41	7.72	3.3	5
DD026633		0.35	0.003	0.06	0.42	6	<0.2	<10	40	0.29	0.07	15.25	0.32	13.40	3.8	9
DD026634		0.32	0.002	0.05	0.37	43	<0.2	<10	60	0.34	0.11	15.10	0.32	10.10	5.2	9
DD026635		0.38	0.002	0.02	0.19	7	<0.2	<10	20	0.22	0.02	18.65	0.14	7.72	2.3	7
DD026636		0.28	0.001	0.07	0.52	17	<0.2	<10	50	0.58	0.12	12.95	0.50	29.9	9.8	14
DD026637		0.34	0.002	0.04	0.42	11	<0.2	<10	80	0.43	0.07	16.70	0.23	20.4	5.1	14
DD026638		0.31	0.004	0.16	1.48	14.5	<0.2	<10	130	0.91	0.23	2.88	0.68	37.8	11.9	28
DD026639		0.32	0.003	0.11	0.89	9.3	<0.2	<10	90	0.59	0.14	9.42	0.49	20.9	8.0	15
DD026640		0.24	0.002	0.06	0.70	13	<0.2	<10	80	0.62	0.10	14.65	0.38	22.8	5.2	11
DD026641		0.28	0.002	0.03	0.20	8	<0.2	<10	20	0.20	0.03	18.55	0.18	6.66	1.8	3
DD026642		0.35	0.003	0.13	1.03	11.7	<0.2	<10	100	0.62	0.15	9.54	0.31	24.2	7.8	17
DD026643		0.27	0.002	0.12	1.03	14	<0.2	<10	120	0.81	0.15	10.10	0.55	29.0	8.3	16
DD026644		0.34	0.002	0.12	1.24	29.8	<0.2	<10	120	0.81	0.17	8.48	0.50	35.7	9.6	21
DD026645		0.34	0.002	0.09	0.61	15	<0.2	<10	70	0.48	0.10	13.25	0.33	18.70	6.1	11
DD026646		0.30	0.003	0.14	0.95	11.3	<0.2	<10	110	0.55	0.15	9.84	0.43	24.8	7.9	16
DD026647		0.34	0.002	0.07	0.71	12	<0.2	<10	100	0.48	0.10	13.35	0.36	16.45	5.1	10
DD026648		0.30	0.002	0.05	0.43	8	<0.2	<10	60	0.42	0.07	16.60	0.24	17.30	3.7	6
DD026649		0.24	0.002	0.09	1.28	14.6	<0.2	<10	110	0.71	0.18	8.83	0.22	28.2	9.0	18
DD026650		0.25	0.002	0.08	1.10	12	<0.2	<10	90	0.66	0.14	11.45	0.29	25.8	7.3	15
DD026651		0.29	0.002	0.05	0.58	11	<0.2	<10	70	0.36	0.08	15.25	0.34	16.55	5.1	9
DD026652		0.38	0.001	0.01	0.39	37	<0.2	<10	50	0.28	0.05	17.20	0.16	8.00	9.1	7
DD026653		0.28	0.002	0.13	0.75	36.0	<0.2	<10	170	0.77	0.16	7.95	0.41	34.2	27.4	25
DD026654		0.32	0.001	0.03	0.38	27.2	<0.2	<10	240	0.47	0.10	7.10	0.11	12.65	24.7	29
DD026655		0.34	0.001	0.11	1.39	20.6	<0.2	<10	160	0.93	0.20	7.44	0.33	31.7	9.3	19
DD026656		0.25	0.004	0.57	1.27	14.6	<0.2	<10	1990	0.67	0.18	1.14	0.55	23.1	7.7	30
DD026657		0.30	0.005	0.88	0.78	13.6	<0.2	<10	430	0.51	0.22	0.39	0.57	17.60	9.2	18
DD026658		0.26	0.002	0.30	0.59	8.5	<0.2	<10	470	0.43	0.12	2.54	1.05	14.95	6.5	23
DD026659		0.19	0.003	0.25	0.85	8.4	<0.2	<10	460	0.46	0.17	4.61	1.08	20.6	7.1	17
DD026660		0.26	0.004	0.69	0.78	9.0	<0.2	<10	440	0.45	0.16	2.37	1.55	22.1	6.4	27
DD026661		0.16	0.002	0.23	0.40	7.8	<0.2	<10	360	0.35	0.09	2.51	1.29	12.30	4.6	17
DD026662		0.24	0.004	0.35	0.98	20.6	<0.2	<10	360	0.62	0.19	2.75	1.74	23.8	9.0	27
DD026663		0.25	0.002	0.31	1.36	20.8	<0.2	<10	410	0.68	0.26	1.69	1.62	26.7	9.2	33
DD026664		0.21	0.002	0.09	1.32	8.2	<0.2	<10	440	0.51	0.25	1.32	1.51	34.6	6.6	29
DD026665		0.47	0.002	0.31	0.65	5.5	<0.2	<10	160	0.47	0.25	0.03	0.50	4.63	7.6	9
DD026666		0.41	0.007	0.24	1.33	11.8	<0.2	<10	240	0.59	0.18	0.74	0.80	31.3	10.2	28
DD026667		0.28	0.005	0.18	1.35	11.0	<0.2	<10	260	0.58	0.26	0.80	1.04	33.0	9.3	33
DD026668		0.27	0.005	0.17	1.42	10.5	<0.2	<10	210	0.57	0.19	0.81	1.34	32.6	9.8	36
DD026669		0.31	0.002	0.29	1.27	10.0	<0.2	<10	420	0.52	0.20	2.64	1.03	25.2	10.0	30
DD026670		0.35	0.003	0.25	1.12	9.0	<0.2	<10	380	0.56	0.18	1.23	0.75	24.6	7.6	29



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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD026631		0.28	6.6	0.58	0.77	<0.05	0.04	0.05	0.010	0.02	4.4	2.4	10.45	255	0.75	0.01
DD026632		0.36	6.0	0.49	0.69	<0.05	0.04	0.06	0.010	0.02	5.2	2.4	9.95	156	0.53	0.01
DD026633		0.38	8.1	0.78	1.16	<0.05	0.04	0.05	0.014	0.03	8.2	3.8	8.48	146	0.95	0.02
DD026634		0.63	10.8	1.25	0.96	<0.05	0.05	0.10	0.021	0.05	4.9	2.6	8.13	169	6.79	0.02
DD026635		0.29	4.1	0.59	0.44	<0.05	0.04	0.02	0.009	0.03	4.1	1.4	9.64	108	6.72	0.02
DD026636		0.39	11.9	2.86	1.28	0.06	0.07	0.11	0.030	0.05	13.5	2.9	7.09	505	4.49	0.01
DD026637		0.49	7.9	1.57	1.10	0.05	0.06	0.03	0.020	0.05	10.5	2.1	8.71	285	4.96	0.01
DD026638		1.04	20.7	2.80	4.25	0.06	0.04	0.07	0.036	0.06	18.1	12.1	1.69	711	2.13	0.01
DD026639		0.69	13.3	1.60	2.57	<0.05	0.04	0.05	0.018	0.03	11.3	7.4	5.59	536	1.42	0.01
DD026640		0.50	9.1	1.17	1.49	0.05	0.04	0.04	0.017	0.03	14.3	3.5	8.63	1180	1.71	0.02
DD026641		0.19	4.1	0.38	0.47	<0.05	0.03	0.02	0.005	0.01	5.7	1.2	11.30	495	0.39	0.02
DD026642		0.65	14.4	1.91	3.06	0.05	0.05	0.06	0.019	0.04	15.0	7.3	5.86	723	1.38	0.01
DD026643		0.61	13.8	1.92	2.68	0.06	0.04	0.05	0.022	0.04	20.0	6.0	5.95	1380	1.45	0.01
DD026644		0.80	15.5	2.15	3.47	0.06	0.08	0.12	0.027	0.05	20.2	8.1	4.78	721	1.44	0.01
DD026645		0.57	10.0	1.20	1.76	0.05	0.06	0.04	0.013	0.03	11.6	4.5	7.62	482	0.82	0.01
DD026646		0.62	12.5	1.63	2.80	0.05	0.05	0.04	0.019	0.04	13.9	6.8	5.88	659	0.99	0.01
DD026647		0.50	9.2	1.12	1.90	<0.05	0.05	0.02	0.014	0.03	10.6	4.3	7.91	486	1.37	0.01
DD026648		0.28	7.5	0.71	1.09	<0.05	0.06	0.03	0.012	0.02	14.8	2.1	9.96	1020	0.58	0.01
DD026649		1.08	12.6	1.91	3.99	0.06	0.06	0.04	0.023	0.04	15.7	8.2	5.53	764	0.87	0.01
DD026650		0.80	11.7	1.63	3.13	0.05	0.06	0.03	0.020	0.03	18.2	6.3	7.06	1120	0.77	0.01
DD026651		0.47	8.8	0.96	1.53	<0.05	0.04	0.03	0.011	0.03	11.8	3.3	9.03	701	0.69	0.01
DD026652		2.70	15.4	0.86	1.21	<0.05	0.11	0.08	0.011	0.05	5.0	2.7	10.30	529	0.67	0.01
DD026653		2.35	38.8	3.89	2.15	0.08	0.10	0.07	0.041	0.10	17.7	3.4	4.45	472	5.15	0.01
DD026654		2.04	17.9	3.02	0.94	0.05	0.13	0.82	0.033	0.10	4.7	0.9	4.26	147	3.35	0.01
DD026655		0.86	16.9	2.32	3.72	0.07	0.05	0.08	0.027	0.04	22.5	7.8	4.31	2020	1.83	0.01
DD026656		0.93	21.2	2.47	4.05	0.06	0.05	0.09	0.026	0.05	14.8	9.0	0.39	350	2.97	0.01
DD026657		3.62	43.6	2.50	2.47	0.08	0.07	0.09	0.040	0.09	8.8	5.2	0.15	158	5.26	<0.01
DD026658		0.52	16.7	1.72	1.94	0.06	0.04	0.10	0.026	0.02	20.8	2.2	0.07	489	0.77	<0.01
DD026659		0.63	16.9	1.89	2.61	0.05	0.03	0.07	0.026	0.05	13.9	5.7	0.18	666	1.41	0.01
DD026660		0.49	19.2	1.76	2.25	0.07	0.05	0.08	0.027	0.04	20.3	6.8	0.21	232	3.67	0.01
DD026661		0.37	12.3	1.31	1.14	0.05	0.04	0.10	0.016	0.02	15.1	2.3	0.09	423	2.75	<0.01
DD026662		0.95	20.4	2.22	3.19	0.10	0.07	0.15	0.032	0.05	30.8	7.0	0.24	592	1.39	0.01
DD026663		0.91	21.3	2.61	3.77	0.07	0.05	0.15	0.032	0.06	31.8	9.1	0.28	605	1.25	0.02
DD026664		0.85	13.1	2.40	4.31	0.06	<0.02	0.08	0.025	0.04	25.9	6.6	0.14	423	1.26	0.01
DD026665		1.00	26.2	1.85	1.56	<0.05	<0.02	0.09	0.037	0.08	2.3	5.0	0.06	53	0.49	0.01
DD026666		0.69	27.7	2.59	3.71	0.06	0.07	0.10	0.022	0.05	23.4	11.4	0.42	402	1.38	0.02
DD026667		0.82	16.6	2.53	4.07	<0.05	0.03	0.07	0.024	0.04	21.7	10.7	0.34	503	1.35	0.02
DD026668		0.91	17.6	2.51	4.11	0.06	0.02	0.08	0.020	0.05	25.5	12.3	0.41	432	1.31	0.02
DD026669		0.49	18.0	2.58	3.30	0.05	0.05	0.09	0.024	0.05	18.3	9.9	0.36	383	1.77	0.02
DD026670		0.60	16.4	2.25	3.20	0.05	0.03	0.08	0.017	0.05	21.2	8.9	0.29	340	1.27	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD026631		0.21	5.6	490	3.6	3.9	0.001	0.06	0.78	1.1	0.5	<0.2	83.0	<0.01	0.03	0.5
DD026632		0.25	7.4	260	3.9	2.8	0.001	0.04	0.70	1.2	0.5	<0.2	102.5	<0.01	0.02	0.5
DD026633		0.33	8.7	360	5.5	4.0	0.001	0.05	0.60	1.7	0.5	0.2	123.0	<0.01	0.02	0.8
DD026634		0.18	17.4	370	6.8	4.3	0.001	0.06	0.78	1.8	0.6	0.2	127.5	<0.01	0.04	0.8
DD026635		0.16	6.7	150	2.0	2.1	<0.001	0.04	0.29	1.9	0.4	<0.2	175.0	<0.01	0.02	0.6
DD026636		0.25	18.8	620	7.5	4.4	<0.001	0.07	0.62	3.2	0.7	0.3	95.3	<0.01	0.04	0.7
DD026637		0.25	12.6	370	4.2	3.9	<0.001	0.05	0.29	3.4	0.6	0.2	134.0	<0.01	0.03	0.9
DD026638		0.55	27.6	950	14.2	10.4	<0.001	0.11	1.00	2.8	0.9	0.5	31.2	0.01	0.04	0.8
DD026639		0.44	16.6	840	10.3	6.9	<0.001	0.08	0.69	1.8	0.7	0.3	54.7	<0.01	0.03	0.6
DD026640		0.27	10.8	1340	10.2	4.0	0.001	0.10	0.62	1.2	0.8	0.2	79.9	0.01	0.04	0.3
DD026641		0.18	2.3	490	4.6	1.9	0.001	0.05	0.27	0.6	0.5	<0.2	86.6	<0.01	0.02	0.2
DD026642		0.45	17.3	900	11.6	6.0	0.001	0.06	0.69	2.4	0.7	0.3	52.6	0.01	0.03	0.9
DD026643		0.30	18.7	1530	15.8	6.3	0.001	0.11	0.80	1.4	1.0	0.3	55.1	0.01	0.04	0.4
DD026644		0.44	24.8	1070	16.0	6.4	0.001	0.08	0.86	2.9	0.8	0.4	61.4	0.01	0.04	1.0
DD026645		0.46	15.3	580	8.6	3.7	0.001	0.04	0.53	2.3	0.6	0.2	77.1	<0.01	0.03	1.3
DD026646		0.50	17.5	780	11.5	5.6	0.001	0.05	0.61	2.6	0.7	0.3	59.7	<0.01	0.03	1.2
DD026647		0.31	11.2	1030	12.2	4.3	0.001	0.06	0.65	1.4	0.6	0.2	72.9	<0.01	0.03	0.6
DD026648		0.21	6.7	1230	9.4	3.4	0.001	0.07	0.41	1.0	0.7	<0.2	71.7	0.01	0.03	0.5
DD026649		0.50	21.4	1140	12.6	8.5	<0.001	0.07	0.63	2.6	0.7	0.4	40.6	0.01	0.04	1.0
DD026650		0.37	17.5	1240	11.9	6.4	<0.001	0.06	0.56	2.1	0.7	0.3	48.6	0.01	0.03	0.8
DD026651		0.28	12.5	1030	8.5	3.9	<0.001	0.06	0.45	1.2	0.6	0.2	78.8	0.01	0.02	0.4
DD026652		0.20	37.3	300	7.1	5.1	<0.001	0.03	0.38	2.0	0.4	0.2	82.3	<0.01	0.02	1.6
DD026653		0.31	46.1	930	21.7	6.0	0.001	0.07	0.71	4.8	0.7	0.5	47.8	0.01	0.04	2.0
DD026654		0.17	45.9	740	15.3	4.7	0.001	0.04	0.88	14.7	0.4	0.4	56.3	0.01	0.03	4.0
DD026655		0.30	20.7	1730	21.4	7.1	0.001	0.11	1.07	1.6	1.1	0.4	48.9	0.01	0.05	0.5
DD026656		0.56	30.4	1580	10.6	7.1	0.001	0.11	1.02	2.9	1.9	0.4	36.4	0.01	0.05	1.0
DD026657		0.28	62.7	960	14.4	11.4	0.004	0.06	1.49	4.1	4.9	0.4	32.2	<0.01	0.09	2.3
DD026658		0.21	18.5	1460	7.5	3.1	<0.001	0.18	0.50	1.6	1.6	0.2	51.8	0.01	0.06	0.2
DD026659		0.33	20.9	1310	10.2	7.7	<0.001	0.15	0.70	1.2	1.3	0.3	51.7	0.01	0.06	0.3
DD026660		0.29	31.1	1110	10.6	5.9	0.001	0.13	0.76	1.2	2.6	0.3	41.7	0.01	0.06	0.3
DD026661		0.12	16.5	1250	7.1	2.9	0.001	0.18	0.36	1.0	1.3	<0.2	31.7	0.01	0.05	0.3
DD026662		0.47	27.5	1220	12.5	7.0	0.001	0.16	0.82	2.1	1.9	0.3	35.5	0.01	0.08	0.4
DD026663		0.51	32.9	1450	17.2	7.6	<0.001	0.12	0.97	2.3	1.8	0.5	28.2	<0.01	0.12	0.6
DD026664		0.72	16.3	970	15.5	5.6	0.001	0.10	0.75	1.5	1.3	0.6	21.9	<0.01	0.05	0.3
DD026665		0.16	39.2	180	15.8	10.0	0.001	0.02	0.91	2.7	0.6	0.4	5.7	<0.01	0.14	1.2
DD026666		0.97	32.7	1040	12.5	5.9	<0.001	0.02	0.90	4.9	0.7	0.4	27.7	<0.01	0.03	3.9
DD026667		0.78	25.2	590	12.9	6.8	<0.001	0.06	0.84	2.8	0.9	0.5	21.4	<0.01	0.04	0.9
DD026668		0.86	25.7	520	12.8	7.5	<0.001	0.05	0.85	3.0	1.0	0.4	22.3	<0.01	0.03	1.1
DD026669		0.65	35.7	590	15.3	5.5	<0.001	0.05	0.85	3.1	1.6	0.4	42.2	<0.01	0.04	1.3
DD026670		0.58	25.2	820	12.3	6.1	<0.001	0.06	0.75	2.1	1.1	0.4	25.5	<0.01	0.04	0.7

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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026631		0.007	0.20	0.44	10	<0.05	5.83	46	1.6
DD026632		0.007	0.41	0.99	9	<0.05	5.66	33	1.7
DD026633		0.011	0.19	0.75	15	0.09	10.40	47	1.4
DD026634		<0.005	1.06	0.92	10	0.13	5.35	54	2.0
DD026635		<0.005	0.57	1.65	5	<0.05	4.81	16	1.3
DD026636		0.006	0.77	0.99	21	0.08	13.80	65	2.3
DD026637		0.005	0.60	0.62	14	0.07	11.60	41	2.0
DD026638		0.026	0.29	0.91	44	0.21	15.85	121	0.9
DD026639		0.018	0.17	1.26	27	0.15	13.90	88	1.0
DD026640		0.010	0.21	1.91	18	0.09	23.9	60	0.9
DD026641		0.005	0.07	0.75	6	<0.05	10.25	28	1.1
DD026642		0.021	0.19	1.09	33	0.45	18.60	63	1.2
DD026643		0.011	0.26	1.29	31	0.14	30.3	101	1.0
DD026644		0.015	0.43	1.23	34	0.18	24.8	102	2.4
DD026645		0.016	0.27	0.98	20	0.12	14.60	50	1.9
DD026646		0.019	0.20	0.90	28	0.18	15.45	70	1.3
DD026647		0.011	0.27	1.02	19	0.10	14.90	64	1.3
DD026648		0.007	0.12	1.00	15	0.05	24.9	34	1.7
DD026649		0.019	0.26	1.09	35	0.15	20.3	69	1.6
DD026650		0.016	0.24	1.35	30	0.20	24.8	73	1.6
DD026651		0.010	0.25	0.90	19	0.10	19.95	71	1.0
DD026652		0.005	2.08	0.78	12	0.06	10.85	42	8.8
DD026653		0.005	0.79	2.05	32	0.10	21.0	78	3.0
DD026654		<0.005	4.45	1.22	18	<0.05	12.70	22	9.1
DD026655		0.013	0.55	1.63	42	0.16	32.2	69	1.0
DD026656		0.022	0.18	1.58	55	0.20	21.7	106	1.2
DD026657		0.010	0.26	2.24	36	0.09	20.1	202	2.1
DD026658		0.007	0.10	1.66	28	0.07	37.7	107	0.7
DD026659		0.012	0.11	1.11	29	0.12	20.3	112	0.6
DD026660		0.010	0.11	0.94	29	0.15	32.8	134	0.9
DD026661		<0.005	0.08	1.73	17	0.05	24.0	149	1.0
DD026662		0.013	0.28	1.46	37	0.18	57.1	149	1.0
DD026663		0.014	0.33	1.36	52	0.17	53.8	170	1.3
DD026664		0.022	0.13	1.26	55	0.21	36.4	113	<0.5
DD026665		<0.005	0.17	0.49	20	<0.05	6.00	138	0.8
DD026666		0.044	0.11	0.78	46	0.24	26.2	97	2.7
DD026667		0.032	0.11	1.08	50	0.22	28.1	95	0.7
DD026668		0.033	0.09	0.84	48	0.22	34.1	102	0.8
DD026669		0.026	0.08	0.81	43	0.22	26.4	127	1.3
DD026670		0.019	0.08	0.84	42	0.19	34.2	95	0.8



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**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69031		0.20	0.002	0.09	0.53	9	<0.2	<10	70	0.42	0.08	15.10	0.45	13.05	3.6	8
ZZ69032		0.25	0.002	0.23	0.49	84.0	<0.2	<10	160	0.39	0.15	3.11	0.59	15.10	5.8	21
ZZ69033		0.17	0.001	0.34	1.04	16.8	<0.2	<10	420	0.60	0.25	1.51	1.54	31.5	10.0	30
ZZ69034		0.22	0.002	0.30	1.34	45.2	<0.2	<10	410	1.07	0.25	2.01	1.12	35.3	13.8	27
ZZ69035		0.14	0.002	1.20	1.07	29.0	<0.2	10	760	0.94	0.21	1.62	0.98	22.0	5.9	35
ZZ69036		0.17	0.003	0.56	0.91	24.8	<0.2	10	380	0.68	0.21	3.27	3.90	30.0	8.8	29
ZZ69037		0.23	0.002	0.92	0.89	16.7	<0.2	<10	340	0.56	0.22	4.21	1.14	19.45	8.8	24
ZZ69038		0.23	0.003	1.63	0.85	14.5	<0.2	<10	400	0.70	0.22	2.69	0.95	22.4	9.6	24
ZZ69039		0.29	0.002	0.67	1.11	14.5	<0.2	10	470	0.66	0.25	9.04	2.17	21.1	10.0	28
ZZ69040		0.17	0.003	0.43	1.03	11.6	<0.2	<10	400	0.60	0.19	3.50	1.02	26.3	7.4	25
ZZ69041		0.13	0.004	0.35	1.10	12.5	<0.2	<10	380	0.65	0.19	2.00	1.48	22.9	7.8	26
ZZ69042		0.14	0.001	0.64	0.90	7.2	<0.2	10	840	0.80	0.19	2.50	2.96	9.95	5.3	27
ZZ69043		0.18	0.002	0.80	0.75	10.2	<0.2	10	560	0.71	0.26	1.60	1.11	11.15	7.4	20
ZZ69044		0.28	0.004	0.45	1.12	12.9	<0.2	<10	360	0.67	0.20	1.48	1.31	24.6	7.4	28
ZZ69045		0.21	0.002	0.49	1.04	11.9	<0.2	<10	660	0.52	0.21	1.66	1.80	28.4	8.5	30
ZZ69046		0.21	0.003	0.75	0.94	11.1	<0.2	<10	450	0.44	0.16	1.93	0.86	24.2	5.8	26
ZZ69047		0.16	0.002	0.49	0.88	6.6	<0.2	<10	510	0.44	0.16	7.35	1.95	19.15	6.3	23
ZZ69048		0.19	0.002	0.60	1.02	8.7	<0.2	<10	470	0.47	0.16	2.39	1.16	21.6	6.4	29
ZZ69049		0.21	0.003	0.85	0.72	7.1	<0.2	10	780	0.35	0.14	8.72	0.88	14.00	4.5	25
ZZ69050		0.20	0.003	0.62	1.20	9.9	<0.2	<10	320	0.58	0.20	0.98	1.23	26.4	7.5	31
ZZ69051		0.15	0.003	0.92	0.81	8.9	<0.2	<10	340	0.42	0.17	1.79	1.44	22.6	6.3	27
ZZ69052		0.15	0.002	0.94	0.81	10.0	<0.2	<10	350	0.44	0.16	2.00	1.34	24.1	6.2	26
ZZ69053		0.23	0.004	2.49	0.84	14.2	<0.2	10	670	0.48	0.22	5.76	1.61	28.8	7.3	37
ZZ69054		0.16	0.007	0.73	0.84	11.9	<0.2	<10	340	0.43	0.18	1.90	0.74	20.5	5.8	23
ZZ69055		0.19	0.003	0.55	0.75	9.7	<0.2	<10	390	0.40	0.15	2.87	1.15	19.70	5.2	24
ZZ69056		0.26	0.002	1.08	0.76	10.3	<0.2	<10	470	0.48	0.21	0.79	0.46	19.75	6.8	19
ZZ69057		0.12	0.004	1.58	0.80	11.5	<0.2	10	450	0.48	0.23	1.83	1.00	20.8	7.0	29
ZZ69058		0.22	0.003	1.52	0.47	9.0	<0.2	<10	320	0.41	0.18	0.69	0.58	11.55	6.1	12
ZZ69059		0.25	0.007	3.10	0.77	22.2	<0.2	<10	690	0.78	0.23	0.85	0.77	14.80	5.8	38
ZZ69060		0.24	0.017	5.94	0.68	19.5	<0.2	10	700	0.56	0.19	2.77	1.92	18.45	2.7	62
ZZ69061		0.22	0.003	1.00	0.78	22.5	<0.2	<10	1010	0.53	0.12	8.37	1.46	17.25	6.3	29
ZZ69062		0.29	0.002	0.73	0.44	25	<0.2	<10	750	0.35	0.09	14.00	4.41	10.65	6.7	18
ZZ69063		0.24	0.003	0.10	0.23	93	<0.2	<10	590	0.42	0.07	17.25	1.33	11.25	6.2	20
ZZ69064		0.29	0.002	0.10	0.56	13	<0.2	<10	120	0.40	0.08	14.70	0.33	13.25	5.0	9
ZZ69065		0.28	0.002	0.06	0.54	15	<0.2	<10	170	0.72	0.08	13.60	0.49	23.9	5.3	7
ZZ69066		0.20	0.005	0.10	0.52	11	<0.2	<10	100	0.38	0.07	12.60	0.42	12.70	4.1	9
ZZ69067		0.20	0.002	0.22	1.26	23.6	<0.2	<10	540	0.76	0.20	3.65	1.25	22.6	9.8	26
ZZ69068		0.30	0.002	0.08	0.53	12	<0.2	<10	80	0.52	0.09	13.65	0.48	12.55	3.7	13
ZZ69069		0.26	0.003	0.15	1.02	13.4	<0.2	<10	170	0.54	0.14	9.26	0.48	22.3	7.7	18
ZZ69070		0.20	0.003	0.09	0.51	9	<0.2	<10	240	0.68	0.08	14.25	0.29	17.65	6.9	9





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**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69031		0.35	6.6	0.84	1.18	<0.05	0.03	0.09	0.007	0.03	9.7	4.0	8.71	765	0.65	0.02
ZZ69032		0.48	22.8	2.09	1.48	0.05	0.07	0.14	0.020	0.05	12.1	3.6	0.16	177	2.64	0.01
ZZ69033		0.32	22.5	2.42	2.87	0.07	0.05	0.11	0.039	0.06	32.4	9.3	0.24	510	1.65	0.01
ZZ69034		1.02	27.5	2.78	3.75	0.07	0.09	0.22	0.034	0.07	26.9	10.4	0.64	571	2.60	0.01
ZZ69035		2.13	21.4	2.70	2.79	0.07	0.09	0.24	0.041	0.08	29.2	10.7	0.12	268	2.37	0.01
ZZ69036		0.48	21.4	2.31	2.35	0.11	0.05	0.16	0.032	0.05	57.9	5.2	0.12	1090	1.70	0.01
ZZ69037		0.78	24.8	2.54	2.07	0.06	0.05	0.12	0.029	0.07	21.9	8.7	1.05	341	4.03	0.02
ZZ69038		0.73	30.9	2.50	2.40	0.07	0.06	0.14	0.033	0.08	21.7	14.6	0.23	219	4.13	0.01
ZZ69039		0.84	23.5	2.28	2.71	0.06	0.06	0.14	0.030	0.11	29.4	8.1	0.28	590	1.83	0.02
ZZ69040		0.38	17.2	2.19	2.72	0.07	0.04	0.10	0.024	0.05	28.6	9.2	0.72	398	1.39	0.02
ZZ69041		0.60	18.3	2.14	2.96	0.07	0.04	0.16	0.022	0.05	31.9	8.3	0.24	427	1.09	0.01
ZZ69042		0.25	18.3	1.68	2.16	0.05	0.09	0.13	0.027	0.11	17.6	5.6	0.13	292	0.99	0.01
ZZ69043		0.40	27.7	2.45	1.66	<0.05	0.11	0.12	0.032	0.12	11.9	4.8	0.11	154	1.47	0.01
ZZ69044		0.42	19.5	2.35	3.09	0.06	0.06	0.05	0.028	0.06	30.4	9.8	0.28	240	1.51	0.01
ZZ69045		0.40	19.7	2.33	2.56	0.06	0.04	0.16	0.024	0.05	26.5	8.7	0.29	452	2.70	0.02
ZZ69046		0.37	20.0	2.27	2.43	0.05	0.05	0.09	0.024	0.05	22.7	8.0	0.24	202	4.43	0.02
ZZ69047		0.44	15.3	1.78	2.04	0.06	0.02	0.06	0.019	0.05	28.9	6.4	0.20	506	1.78	0.02
ZZ69048		0.40	17.0	2.05	2.57	0.05	0.03	0.10	0.022	0.05	20.5	8.0	0.28	394	2.27	0.02
ZZ69049		0.11	19.3	1.39	1.77	0.05	0.07	0.11	0.017	0.06	17.5	8.7	0.25	203	3.36	0.02
ZZ69050		0.45	19.3	2.22	3.30	0.06	0.03	0.04	0.028	0.05	24.4	9.3	0.30	411	2.48	0.01
ZZ69051		0.34	18.2	1.94	2.23	0.06	0.02	0.12	0.025	0.04	25.3	6.8	0.20	327	3.68	0.01
ZZ69052		0.33	18.9	1.99	2.19	0.05	0.02	0.10	0.022	0.05	22.4	7.4	0.21	301	3.57	0.02
ZZ69053		0.21	34.8	2.29	2.20	0.08	0.12	0.12	0.037	0.11	37.8	9.2	0.43	235	11.15	0.02
ZZ69054		0.35	19.8	2.15	2.14	0.06	0.03	0.09	0.026	0.06	19.9	6.8	0.24	201	3.35	0.01
ZZ69055		0.34	14.7	1.68	2.06	0.05	0.03	0.06	0.021	0.05	23.1	5.7	0.37	284	2.78	0.01
ZZ69056		0.51	25.5	2.51	2.07	0.05	0.04	0.07	0.028	0.08	16.7	6.7	0.18	215	2.05	0.02
ZZ69057		0.81	36.0	2.42	2.17	0.06	0.09	0.17	0.041	0.10	26.5	6.9	0.16	160	4.16	0.02
ZZ69058		1.14	33.4	2.30	1.27	0.05	0.05	0.11	0.031	0.08	6.2	3.7	0.10	126	2.23	0.01
ZZ69059		0.78	53.6	2.83	2.02	0.08	0.15	0.37	0.045	0.13	10.0	3.1	0.09	165	7.97	0.01
ZZ69060		1.16	76.9	2.49	2.11	0.11	0.16	0.54	0.039	0.23	16.4	6.2	0.21	55	8.78	0.03
ZZ69061		0.60	21.4	1.77	2.06	0.05	0.09	0.14	0.024	0.08	13.6	6.6	4.62	288	11.25	0.02
ZZ69062		0.77	19.5	1.20	1.16	<0.05	0.05	0.23	0.016	0.07	6.6	3.9	7.99	203	8.56	0.02
ZZ69063		0.94	15.6	0.89	0.76	<0.05	0.05	1.03	0.015	0.04	8.0	2.2	9.99	74	3.02	0.02
ZZ69064		0.51	8.0	0.83	1.28	<0.05	0.05	0.12	0.010	0.03	9.6	4.7	8.48	674	1.01	0.02
ZZ69065		0.34	8.3	0.96	1.36	<0.05	0.08	0.08	0.013	0.05	17.7	3.0	7.72	2150	2.40	0.02
ZZ69066		0.40	8.4	0.91	1.27	<0.05	0.05	0.12	0.011	0.03	9.6	4.3	7.22	701	1.10	0.01
ZZ69067		1.12	18.2	2.57	2.85	<0.05	0.05	10.90	0.028	0.07	13.2	9.2	1.64	505	9.62	0.02
ZZ69068		0.38	7.0	0.92	1.11	<0.05	0.04	0.45	0.012	0.04	9.6	4.4	7.91	519	1.77	0.02
ZZ69069		0.75	14.0	1.75	2.56	<0.05	0.06	0.12	0.016	0.05	14.2	10.1	5.41	959	1.90	0.02
ZZ69070		0.33	9.8	1.09	1.33	<0.05	0.06	0.14	0.012	0.04	13.5	3.8	7.98	1620	1.52	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69031		0.22	10.8	1290	8.3	3.0	0.001	0.04	0.66	0.8	0.4	0.2	87.8	<0.01	0.02	0.4
ZZ69032		0.28	45.3	930	13.1	3.3	0.001	0.04	1.45	2.8	1.6	0.3	67.9	<0.01	0.06	1.3
ZZ69033		0.40	30.9	980	19.4	5.4	<0.001	0.09	0.95	2.3	1.6	0.4	23.6	<0.01	0.23	0.8
ZZ69034		0.57	49.3	800	18.7	7.2	0.001	0.05	1.17	4.3	1.6	0.6	30.7	<0.01	0.07	1.5
ZZ69035		0.20	40.7	1110	16.3	11.1	0.001	0.11	0.67	3.2	2.9	0.5	32.2	<0.01	0.09	0.9
ZZ69036		0.23	31.4	2060	17.4	3.8	0.001	0.18	0.84	1.6	3.4	0.3	38.0	0.01	0.15	0.3
ZZ69037		0.24	45.9	930	16.3	6.3	0.001	0.07	0.79	2.1	2.9	0.3	33.3	<0.01	0.11	0.7
ZZ69038		0.34	51.4	720	15.6	7.0	0.002	0.06	0.94	3.2	3.8	0.3	30.0	<0.01	0.11	1.1
ZZ69039		0.39	37.6	1280	16.8	8.2	0.001	0.07	0.80	3.3	2.4	0.5	67.3	<0.01	0.12	1.0
ZZ69040		0.44	28.4	1160	13.6	5.6	0.001	0.09	0.80	1.5	1.7	0.3	39.6	<0.01	0.07	0.5
ZZ69041		0.47	27.4	1360	13.5	6.3	0.001	0.11	0.83	1.7	2.0	0.4	31.1	<0.01	0.05	0.5
ZZ69042		0.24	28.6	1290	13.5	6.1	0.001	0.15	0.66	1.5	1.4	0.4	37.7	<0.01	0.06	0.5
ZZ69043		0.18	47.0	560	20.0	6.6	0.001	0.11	0.97	3.5	1.8	0.4	24.9	<0.01	0.10	1.4
ZZ69044		0.41	31.8	1180	14.9	6.1	0.001	0.08	0.84	2.3	1.9	0.4	24.6	<0.01	0.13	0.9
ZZ69045		0.44	33.0	1040	13.7	4.8	0.001	0.10	0.99	1.5	2.2	0.4	27.7	<0.01	0.05	0.4
ZZ69046		0.38	40.5	1340	11.9	4.9	0.001	0.10	0.87	1.3	2.7	0.3	35.4	<0.01	0.04	0.5
ZZ69047		0.26	21.7	1650	11.5	4.6	0.001	0.18	0.58	0.6	1.7	0.3	63.8	<0.01	0.10	0.2
ZZ69048		0.44	27.4	1180	11.3	5.0	<0.001	0.13	0.66	1.1	1.7	0.3	31.7	<0.01	0.04	0.3
ZZ69049		0.21	39.5	1260	8.5	3.4	0.003	0.16	0.70	1.1	2.7	0.3	101.0	<0.01	0.06	0.4
ZZ69050		0.47	28.3	1090	12.9	6.1	<0.001	0.08	0.73	1.8	1.9	0.4	23.0	<0.01	0.07	0.5
ZZ69051		0.33	32.9	1310	11.8	4.8	0.001	0.12	0.79	1.0	2.6	0.3	32.0	<0.01	0.07	0.3
ZZ69052		0.33	32.1	1130	11.6	4.6	0.002	0.12	0.86	1.0	2.4	0.3	32.1	<0.01	0.04	0.3
ZZ69053		0.21	75.7	1930	17.3	6.4	0.001	0.13	1.21	1.5	6.3	0.4	86.1	<0.01	0.09	1.0
ZZ69054		0.37	34.1	1220	12.3	4.3	0.001	0.10	0.89	1.2	2.0	0.3	31.9	<0.01	0.04	0.4
ZZ69055		0.27	28.2	1470	10.6	4.2	0.001	0.12	0.68	1.0	2.6	0.3	41.2	<0.01	0.05	0.3
ZZ69056		0.32	37.7	640	13.8	6.6	0.002	0.11	1.31	3.0	1.8	0.3	25.4	<0.01	0.11	0.9
ZZ69057		0.29	56.3	1480	15.2	8.6	0.002	0.12	1.23	2.9	4.1	0.4	45.0	<0.01	0.12	0.8
ZZ69058		0.17	49.6	910	12.9	7.2	0.004	0.09	1.33	3.1	2.6	0.3	34.4	<0.01	0.14	0.9
ZZ69059		0.16	70.5	3010	12.5	9.8	0.003	0.23	1.92	4.1	5.7	0.4	106.0	0.01	0.11	1.3
ZZ69060		0.12	70.7	3360	9.9	12.7	0.004	0.56	1.45	2.7	10.7	0.5	127.0	0.01	0.11	0.9
ZZ69061		0.30	55.9	2240	9.0	6.8	0.002	0.11	2.60	2.2	3.3	0.3	84.5	0.01	0.06	0.9
ZZ69062		0.28	46.5	1090	6.3	4.8	0.002	0.09	3.51	2.3	2.2	0.2	110.0	<0.01	0.03	1.0
ZZ69063		0.12	52.5	1680	10.0	3.1	0.001	0.04	3.31	1.5	1.4	0.2	201	<0.01	0.05	0.7
ZZ69064		0.25	12.0	1940	9.3	4.2	0.001	0.06	1.63	1.1	0.7	0.2	98.5	0.01	0.03	0.5
ZZ69065		0.17	12.6	2810	12.3	3.8	<0.001	0.10	1.68	1.0	0.7	0.2	80.7	0.01	0.03	0.5
ZZ69066		0.23	12.0	1380	8.0	3.7	0.001	0.07	1.37	1.0	0.6	<0.2	72.5	0.01	0.03	0.4
ZZ69067		0.30	49.8	1300	13.6	7.3	0.001	0.10	3.95	1.7	1.1	0.4	29.3	0.01	0.04	0.5
ZZ69068		0.19	17.5	1200	8.1	3.8	0.001	0.07	4.32	0.9	0.7	0.2	70.6	0.01	0.07	0.3
ZZ69069		0.47	22.6	1720	11.6	6.3	<0.001	0.05	2.85	2.2	0.7	0.3	73.8	0.01	0.04	1.0
ZZ69070		0.18	13.3	1840	11.2	3.7	0.001	0.09	1.29	1.0	0.7	0.2	90.6	0.01	0.03	0.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69031		0.010	0.21	1.26	16	0.11	13.80	37	0.7
ZZ69032		0.008	1.19	1.24	30	0.06	26.3	126	2.5
ZZ69033		0.012	0.26	0.83	40	0.14	45.1	167	1.1
ZZ69034		0.011	1.36	1.18	44	0.15	40.2	145	2.5
ZZ69035		<0.005	0.55	2.51	43	0.05	49.7	144	2.1
ZZ69036		0.005	0.25	1.02	36	0.06	109.5	336	1.2
ZZ69037		0.007	0.22	0.85	35	0.19	35.9	168	1.5
ZZ69038		0.009	0.14	1.10	34	0.15	38.3	159	1.9
ZZ69039		0.009	0.27	1.15	38	0.16	53.3	198	1.5
ZZ69040		0.012	0.11	0.89	36	0.25	38.3	106	0.8
ZZ69041		0.011	0.15	1.17	37	0.13	54.0	139	1.1
ZZ69042		<0.005	0.12	1.00	28	0.05	36.9	219	2.4
ZZ69043		<0.005	0.14	0.97	25	0.05	29.8	164	3.3
ZZ69044		0.012	0.10	0.89	39	0.19	44.7	143	1.6
ZZ69045		0.014	0.15	1.83	43	0.15	39.3	146	0.8
ZZ69046		0.012	0.09	1.30	36	0.21	32.6	133	1.1
ZZ69047		0.006	0.10	0.75	28	0.10	44.2	200	0.5
ZZ69048		0.013	0.09	1.10	36	0.11	30.7	133	0.7
ZZ69049		0.006	0.11	1.36	25	0.07	33.7	140	2.2
ZZ69050		0.016	0.10	1.28	40	0.16	38.1	132	1.0
ZZ69051		0.010	0.10	1.76	32	0.10	38.0	157	0.8
ZZ69052		0.010	0.11	1.41	32	0.22	32.4	130	0.8
ZZ69053		0.006	0.17	2.46	33	0.07	39.2	262	3.5
ZZ69054		0.012	0.08	1.24	33	0.39	28.0	123	0.7
ZZ69055		0.008	0.11	2.01	29	0.23	34.5	133	0.8
ZZ69056		0.009	0.12	1.34	32	0.13	24.6	139	1.1
ZZ69057		0.007	0.16	2.03	33	0.16	44.8	209	2.8
ZZ69058		0.005	0.15	1.84	25	0.05	18.45	179	1.4
ZZ69059		0.005	0.32	3.22	58	0.12	30.8	274	3.7
ZZ69060		<0.005	0.35	3.89	54	0.16	42.9	235	4.2
ZZ69061		0.011	0.58	2.57	57	0.28	27.1	166	2.0
ZZ69062		0.009	0.67	3.49	45	0.12	12.90	199	1.6
ZZ69063		<0.005	0.82	3.34	53	<0.05	11.35	276	2.0
ZZ69064		0.009	0.32	1.28	18	0.10	15.45	44	1.2
ZZ69065		0.005	0.32	1.87	15	0.07	28.3	59	1.9
ZZ69066		0.009	0.28	1.23	18	0.13	15.15	53	1.1
ZZ69067		0.012	0.48	1.42	64	0.19	15.40	160	1.0
ZZ69068		0.010	0.19	1.82	29	0.09	12.40	75	1.0
ZZ69069		0.022	0.30	1.37	32	0.14	18.15	78	1.3
ZZ69070		0.007	0.42	1.76	20	0.09	20.9	40	1.5





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**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69071		0.24	0.003	0.11	0.72	13	<0.2	<10	130	0.56	0.10	11.85	0.43	19.60	6.3	14
ZZ69072		0.23	0.003	0.06	0.54	13	<0.2	<10	60	0.31	0.07	14.25	0.19	11.55	5.1	10
ZZ69073		0.30	0.002	0.03	0.25	7	<0.2	<10	110	0.35	0.03	18.05	0.16	5.96	2.6	4
ZZ69074		0.25	0.002	0.05	0.46	25	<0.2	<10	100	0.46	0.06	15.10	0.28	12.00	5.6	11
ZZ69075		0.32	0.002	0.04	0.34	10	<0.2	<10	80	0.31	0.05	14.70	0.29	8.02	3.0	8
ZZ69076		0.20	0.004	0.30	1.44	35.5	<0.2	<10	750	0.57	0.18	0.34	0.20	25.5	7.8	27
ZZ69077		0.29	0.006	0.89	1.01	17.3	<0.2	<10	380	0.45	0.19	1.44	1.10	24.0	7.0	24
ZZ69078		0.28	0.004	0.76	1.05	22.6	<0.2	<10	450	0.47	0.20	1.12	1.34	24.4	7.5	28
ZZ69079		0.19	0.005	1.61	1.27	19.7	<0.2	<10	570	0.55	0.25	1.26	1.25	25.0	8.8	33
ZZ69080		0.19	0.004	0.79	1.01	16.4	<0.2	<10	520	0.47	0.19	4.45	1.92	23.5	8.1	27
ZZ69081		0.14	0.003	0.38	0.99	21.5	<0.2	<10	370	0.47	0.17	3.10	1.34	22.5	7.6	26
ZZ69082		0.20	0.002	0.57	0.51	29.2	<0.2	<10	320	0.47	0.15	5.28	1.15	17.95	6.9	19
ZZ69083		0.15	0.003	0.78	0.85	13.4	<0.2	<10	340	0.42	0.17	4.90	1.78	20.1	6.1	25
ZZ69084		0.21	0.005	1.50	0.55	18.5	<0.2	<10	540	0.40	0.26	5.82	1.16	18.35	8.5	19
ZZ69085		0.23	0.005	1.29	0.98	12.1	<0.2	<10	410	0.51	0.21	2.38	0.46	19.90	7.1	21
ZZ69086		0.20	0.003	0.45	0.98	11.6	<0.2	<10	400	0.52	0.16	4.23	1.21	20.8	5.8	23
ZZ69087		0.19	0.003	0.46	0.87	13.7	<0.2	<10	350	0.44	0.15	3.99	0.71	20.4	5.8	24
ZZ69088		0.19	0.003	0.32	1.16	10.1	<0.2	<10	250	0.47	0.18	2.22	1.28	23.4	6.9	27
ZZ69089		0.21	0.003	0.27	1.27	7.6	<0.2	<10	410	0.42	0.16	1.44	0.89	16.95	6.0	25
ZZ69090		0.25	0.004	0.85	0.61	13.0	<0.2	<10	1270	0.37	0.18	1.47	0.76	14.65	6.3	16
ZZ69091		0.17	0.004	1.30	0.41	8.6	<0.2	<10	560	0.26	0.19	1.10	0.71	11.25	8.0	9
ZZ69092		0.21	0.003	0.34	1.14	8.7	<0.2	<10	440	0.43	0.14	5.62	1.41	19.30	6.8	24
ZZ69093		0.15	0.002	0.42	1.92	18.8	<0.2	<10	360	0.92	0.22	1.14	0.83	31.8	8.5	37
ZZ69094		0.13	0.005	0.59	1.73	15.0	<0.2	<10	680	0.77	0.24	1.15	0.31	25.9	10.0	36
ZZ69095		0.17	0.002	0.10	1.73	9.8	<0.2	<10	380	0.75	0.29	0.77	3.07	22.9	9.7	26
ZZ69096		0.17	0.007	0.38	1.51	10.7	<0.2	<10	440	0.69	0.26	0.93	0.85	21.2	7.7	25
ZZ69097		0.21	0.003	0.58	1.10	15.9	<0.2	<10	300	0.49	0.23	0.36	0.29	14.40	3.9	27
ZZ69098		0.22	0.002	0.40	1.23	8.9	<0.2	<10	430	0.45	0.20	1.09	0.59	23.9	7.2	27
ZZ69099		0.14	0.011	0.17	0.50	3.1	<0.2	<10	260	0.18	0.12	1.27	1.10	9.21	2.5	12
ZZ69100		0.18	0.008	1.13	0.48	6.0	<0.2	10	540	0.33	0.15	1.90	0.76	13.75	5.3	15
ZZ69101		0.17	0.005	1.57	0.39	9.9	<0.2	10	480	0.49	0.18	0.34	0.38	6.99	3.7	13
ZZ69102		0.18	0.004	1.66	0.47	8.8	<0.2	10	520	0.45	0.18	0.34	0.47	6.88	3.7	16
ZZ69103		0.22	0.007	0.48	0.55	11.1	<0.2	<10	300	0.41	0.13	4.08	1.63	19.85	5.5	20
ZZ69104		0.15	0.002	0.14	0.99	5.4	<0.2	<10	430	0.37	0.19	1.23	1.60	17.25	5.7	22
ZZ69105		0.22	0.005	1.48	0.77	18.3	<0.2	10	820	0.59	0.16	3.59	2.11	19.20	7.7	27
ZZ69106		0.23	0.007	4.01	0.83	17.1	<0.2	10	1080	0.66	0.14	3.57	1.18	12.50	4.2	48
ZZ69107		0.16	0.005	2.87	0.93	14.6	<0.2	10	920	0.65	0.18	1.81	0.63	17.35	6.5	36
ZZ69108		0.12	0.003	0.50	0.94	10.7	<0.2	<10	670	0.49	0.18	1.06	1.58	14.80	5.8	25
ZZ69109		0.18	0.010	5.35	0.84	18.6	<0.2	10	1510	0.60	0.20	2.10	1.75	18.65	5.3	61
ZZ69110		0.16	0.007	2.96	0.78	14.5	<0.2	10	880	0.60	0.14	3.43	1.11	13.60	3.6	55



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69071		0.54	10.7	1.39	1.67	<0.05	0.06	0.09	0.015	0.06	13.8	5.8	6.70	1050	0.97	0.03
ZZ69072		0.53	10.0	1.08	1.34	<0.05	0.05	0.06	0.012	0.04	7.2	5.3	8.05	306	1.22	0.02
ZZ69073		0.27	3.4	0.41	0.61	<0.05	0.04	0.08	0.005	0.02	3.8	3.4	10.65	480	0.41	0.02
ZZ69074		0.44	9.1	1.13	1.12	<0.05	0.06	0.12	0.012	0.04	8.3	3.4	8.56	511	2.43	0.02
ZZ69075		0.34	7.1	0.68	0.83	<0.05	0.04	0.17	0.007	0.03	4.3	4.0	8.60	151	0.86	0.02
ZZ69076		1.73	15.7	2.58	4.01	<0.05	0.03	0.06	0.028	0.04	11.1	12.8	0.43	272	1.81	<0.01
ZZ69077		0.63	23.1	2.43	2.64	0.06	0.06	0.36	0.030	0.06	18.1	8.1	0.24	322	7.19	0.01
ZZ69078		0.69	25.1	2.64	2.59	0.07	0.08	0.15	0.035	0.07	20.3	8.5	0.24	320	4.23	0.02
ZZ69079		0.67	33.3	3.13	3.22	0.07	0.09	0.13	0.044	0.07	18.7	10.7	0.24	266	16.95	0.01
ZZ69080		0.47	22.0	2.24	2.49	0.08	0.07	0.08	0.032	0.07	27.1	8.3	0.29	410	6.34	0.01
ZZ69081		0.54	18.6	2.21	2.36	0.05	0.06	0.11	0.027	0.07	20.5	8.0	0.31	425	3.07	0.01
ZZ69082		1.00	20.8	1.94	1.26	0.05	0.08	0.12	0.030	0.08	18.5	4.6	0.15	261	2.99	0.01
ZZ69083		0.50	20.0	1.90	1.95	0.05	0.07	0.10	0.025	0.05	23.4	6.9	0.44	343	4.18	0.02
ZZ69084		0.89	39.9	2.74	1.48	0.06	0.08	0.16	0.043	0.10	14.4	6.0	0.69	153	9.42	0.02
ZZ69085		1.09	28.0	2.57	2.30	0.05	0.08	0.17	0.035	0.07	15.2	10.0	0.91	219	3.14	0.01
ZZ69086		0.52	15.8	2.09	2.31	<0.05	0.06	0.11	0.027	0.08	20.4	8.0	1.33	303	1.44	0.01
ZZ69087		0.69	19.3	1.98	2.05	<0.05	0.08	0.13	0.025	0.08	19.1	7.4	1.30	223	1.59	0.01
ZZ69088		0.63	14.7	2.17	2.97	0.05	0.07	0.08	0.025	0.05	24.8	9.9	0.29	439	1.34	0.01
ZZ69089		0.85	12.1	2.00	3.32	<0.05	0.05	0.05	0.022	0.05	13.5	8.7	0.25	436	1.26	0.01
ZZ69090		0.57	27.1	2.16	1.48	0.05	0.12	0.12	0.032	0.09	12.7	5.0	0.13	159	2.09	0.01
ZZ69091		0.96	37.6	2.11	0.91	0.05	0.13	0.13	0.033	0.10	7.3	3.2	0.09	131	1.97	0.01
ZZ69092		0.67	15.4	1.90	2.80	<0.05	0.05	0.09	0.022	0.05	19.4	8.6	0.28	392	1.41	0.01
ZZ69093		1.45	12.0	3.02	4.40	0.05	0.07	0.11	0.033	0.06	19.7	11.9	0.53	388	3.59	0.01
ZZ69094		1.59	32.4	2.83	5.10	0.07	0.09	0.21	0.034	0.07	20.7	12.5	0.35	565	1.31	0.01
ZZ69095		1.53	9.4	2.91	6.30	0.05	0.03	0.04	0.038	0.04	12.2	11.9	0.38	707	1.41	<0.01
ZZ69096		1.44	14.6	2.44	5.51	0.05	0.04	0.06	0.033	0.06	12.6	11.5	0.35	586	1.56	<0.01
ZZ69097		1.52	14.0	2.27	4.13	0.05	0.02	0.05	0.030	0.05	7.0	6.6	0.13	115	4.09	<0.01
ZZ69098		1.01	12.7	2.26	4.09	0.06	0.05	0.06	0.028	0.04	14.7	10.8	0.26	336	1.37	<0.01
ZZ69099		0.76	9.3	0.89	2.22	<0.05	0.03	0.05	0.017	0.03	6.7	2.1	0.05	125	1.18	0.01
ZZ69100		0.76	23.6	1.70	1.30	0.06	0.05	0.13	0.029	0.06	12.2	3.1	0.08	258	1.86	0.01
ZZ69101		0.80	37.3	1.72	1.04	0.06	0.06	0.07	0.034	0.09	4.6	2.4	0.03	49	3.02	0.01
ZZ69102		0.98	34.9	1.75	1.38	0.05	0.09	0.09	0.034	0.08	4.1	2.1	0.03	87	2.99	0.01
ZZ69103		0.51	16.6	1.57	1.60	0.08	0.06	0.06	0.025	0.04	20.2	5.8	0.33	270	3.51	0.01
ZZ69104		0.84	7.7	1.87	3.52	0.05	0.02	0.05	0.027	0.03	12.2	8.1	0.15	355	1.26	<0.01
ZZ69105		1.02	41.4	2.22	2.35	0.08	0.10	0.12	0.030	0.12	12.0	7.9	1.77	273	6.80	0.02
ZZ69106		0.79	47.7	1.55	2.19	0.07	0.09	0.51	0.028	0.05	10.9	5.2	0.14	143	1.51	0.01
ZZ69107		0.65	39.4	2.24	2.73	0.08	0.06	0.24	0.035	0.08	11.4	7.8	0.16	229	6.13	0.01
ZZ69108		0.63	14.2	1.84	3.34	<0.05	0.07	0.06	0.027	0.08	8.9	6.6	0.14	359	2.27	<0.01
ZZ69109		1.26	61.9	2.26	2.55	0.13	0.09	0.28	0.041	0.13	15.7	7.3	0.17	98	7.77	0.01
ZZ69110		0.84	34.4	1.72	2.33	0.08	0.08	0.20	0.029	0.08	13.1	6.5	0.50	130	3.32	0.01

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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69071		0.29	15.6	1730	11.1	4.6	0.001	0.07	1.70	1.5	0.7	0.2	80.8	0.01	0.03	0.6
ZZ69072		0.33	12.8	950	6.3	4.0	<0.001	0.05	0.69	1.6	0.5	0.2	96.1	<0.01	0.03	0.6
ZZ69073		0.18	5.9	560	14.8	1.8	0.001	0.03	0.53	0.7	0.5	<0.2	116.5	<0.01	0.02	0.4
ZZ69074		0.23	13.7	1060	9.0	3.6	0.001	0.07	1.03	1.4	0.5	0.2	99.5	0.01	0.04	0.5
ZZ69075		0.29	10.5	470	5.0	2.6	0.001	0.02	0.54	1.1	0.4	<0.2	99.2	<0.01	0.03	0.7
ZZ69076		0.50	30.0	550	11.7	7.7	<0.001	0.02	0.88	2.3	0.9	0.4	15.8	<0.01	0.05	0.9
ZZ69077		0.35	43.0	930	11.9	6.2	0.001	0.10	0.94	1.8	2.8	0.3	30.7	0.01	0.05	0.6
ZZ69078		0.34	50.7	830	13.7	5.9	0.001	0.08	1.02	2.4	2.1	0.3	22.7	0.01	0.07	0.9
ZZ69079		0.44	77.9	600	16.1	7.4	0.001	0.07	1.19	3.2	4.8	0.5	29.4	0.01	0.08	1.4
ZZ69080		0.27	38.5	1480	13.0	6.5	0.001	0.12	0.93	1.1	2.8	0.3	51.1	0.01	0.11	0.4
ZZ69081		0.36	33.7	1090	11.3	5.7	0.001	0.10	0.99	1.7	1.7	0.3	35.6	0.01	0.05	0.6
ZZ69082		0.14	41.3	920	10.9	6.6	0.001	0.07	0.81	2.9	1.9	0.2	61.2	0.01	0.11	1.0
ZZ69083		0.26	35.9	1540	9.8	5.4	0.001	0.13	0.85	1.0	2.8	0.3	53.9	0.01	0.08	0.4
ZZ69084		0.24	71.3	1420	15.4	7.1	0.003	0.06	1.43	3.0	3.9	0.3	78.6	0.01	0.16	2.5
ZZ69085		0.31	46.2	630	13.0	8.0	0.001	0.05	1.14	3.6	2.2	0.3	32.3	0.01	0.10	1.7
ZZ69086		0.39	25.4	1500	11.0	6.5	0.001	0.10	0.80	1.8	1.4	0.3	51.4	0.01	0.08	0.6
ZZ69087		0.31	35.0	1240	9.9	6.7	0.001	0.06	0.86	2.3	1.1	0.3	46.8	0.01	0.08	0.8
ZZ69088		0.40	23.5	1380	11.3	6.4	0.001	0.08	0.70	2.0	1.2	0.3	34.4	0.01	0.09	0.6
ZZ69089		0.49	17.6	1320	9.5	8.8	<0.001	0.11	0.53	2.0	0.9	0.3	29.2	0.01	0.06	0.7
ZZ69090		0.22	47.4	1080	11.1	6.5	0.002	0.13	1.20	2.6	1.9	0.2	38.9	0.01	0.09	1.2
ZZ69091		0.11	54.1	980	12.0	6.9	0.003	0.10	1.35	3.1	2.1	0.2	36.8	0.01	0.13	1.3
ZZ69092		0.45	23.1	1050	9.4	5.6	0.001	0.07	0.64	2.1	1.2	0.3	59.6	0.01	0.06	0.5
ZZ69093		0.54	25.5	880	13.9	8.6	<0.001	0.07	0.99	3.4	1.0	0.5	23.5	0.01	0.06	1.2
ZZ69094		0.65	31.4	850	14.8	12.1	<0.001	0.06	0.60	3.8	1.3	0.5	28.0	0.01	0.08	1.5
ZZ69095		0.95	16.7	560	16.8	8.7	<0.001	0.05	0.62	3.4	0.5	0.7	18.2	<0.01	0.05	1.1
ZZ69096		0.70	18.4	1540	14.3	11.9	<0.001	0.10	0.57	2.1	0.8	0.5	23.6	0.01	0.04	0.6
ZZ69097		0.30	22.6	1400	13.4	8.9	0.001	0.09	1.12	1.0	2.1	0.5	38.5	<0.01	0.06	0.3
ZZ69098		0.72	21.5	1130	11.9	8.7	0.001	0.06	0.59	2.5	1.1	0.4	36.3	0.01	0.06	1.0
ZZ69099		0.47	9.8	700	6.1	4.4	<0.001	0.11	0.46	2.2	0.8	0.4	29.3	<0.01	0.05	0.5
ZZ69100		0.19	32.6	1110	9.8	6.8	0.001	0.16	0.97	2.4	2.0	0.2	60.6	<0.01	0.10	0.4
ZZ69101		0.09	39.0	890	10.0	7.9	0.002	0.16	1.25	3.6	3.6	0.3	129.5	<0.01	0.11	1.4
ZZ69102		0.10	35.3	1190	10.6	10.4	0.002	0.16	1.00	3.4	3.5	0.3	90.9	<0.01	0.09	1.3
ZZ69103		0.29	30.1	1110	8.9	5.4	0.001	0.08	0.74	1.8	1.9	0.2	58.0	0.01	0.06	0.6
ZZ69104		0.73	13.2	610	11.9	6.5	<0.001	0.08	0.53	2.1	0.8	0.4	30.1	<0.01	0.05	0.6
ZZ69105		0.45	59.8	2240	10.2	8.0	0.003	0.14	2.14	3.7	3.7	0.3	82.1	0.01	0.07	1.6
ZZ69106		0.32	46.3	2360	7.9	6.3	0.004	0.16	1.36	2.7	5.7	0.3	121.5	0.01	0.07	0.6
ZZ69107		0.36	46.5	2210	9.9	7.4	0.002	0.17	1.36	2.6	4.6	0.4	114.0	0.01	0.09	0.7
ZZ69108		0.49	23.9	1820	10.2	8.7	<0.001	0.13	0.97	2.3	1.7	0.4	43.0	0.01	0.06	0.9
ZZ69109		0.28	83.4	3610	11.2	10.8	0.006	0.15	1.87	4.9	10.3	0.5	130.0	0.01	0.16	1.9
ZZ69110		0.28	41.4	2760	7.9	8.3	0.006	0.15	1.41	2.9	6.2	0.4	103.0	0.01	0.13	0.7

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69071		0.016	0.34	1.38	27	0.11	18.75	63	1.3
ZZ69072		0.017	0.31	0.83	19	0.08	8.52	38	1.4
ZZ69073		0.006	0.26	0.72	9	<0.05	5.42	56	1.2
ZZ69074		0.007	0.78	1.23	16	0.07	13.15	43	1.7
ZZ69075		0.012	0.17	1.24	16	0.13	3.77	48	1.4
ZZ69076		0.021	0.72	0.81	50	0.31	9.43	89	<0.5
ZZ69077		0.016	0.14	2.70	39	0.14	24.1	133	1.0
ZZ69078		0.015	0.35	1.14	42	0.15	32.0	189	1.4
ZZ69079		0.013	0.23	3.76	52	0.19	25.6	194	2.5
ZZ69080		0.010	0.18	0.96	35	0.23	43.5	179	0.9
ZZ69081		0.014	0.32	0.94	38	0.23	31.7	144	1.2
ZZ69082		<0.005	0.46	1.34	24	0.07	33.2	167	1.9
ZZ69083		0.009	0.13	1.24	30	0.21	40.4	160	1.1
ZZ69084		0.008	0.18	2.22	28	0.11	25.7	179	2.3
ZZ69085		0.010	0.17	0.91	35	0.29	22.4	123	2.0
ZZ69086		0.013	0.12	0.97	34	0.17	28.9	130	1.0
ZZ69087		0.012	0.23	1.07	34	0.32	29.0	129	1.7
ZZ69088		0.019	0.10	1.01	40	0.27	37.0	112	0.8
ZZ69089		0.020	0.11	1.10	40	0.28	17.10	88	1.1
ZZ69090		0.006	0.21	1.52	27	0.08	25.3	159	2.8
ZZ69091		<0.005	0.16	1.30	18	0.06	21.6	181	3.8
ZZ69092		0.020	0.10	0.93	37	0.26	31.4	107	0.9
ZZ69093		0.016	0.32	1.02	66	0.46	21.2	102	1.3
ZZ69094		0.019	0.22	2.00	60	0.29	31.0	85	1.9
ZZ69095		0.029	0.24	0.86	59	0.24	7.94	168	0.7
ZZ69096		0.019	0.17	2.33	52	0.15	13.35	108	0.8
ZZ69097		0.009	0.36	1.26	59	0.14	6.61	77	<0.5
ZZ69098		0.019	0.13	1.46	42	0.18	17.35	97	1.2
ZZ69099		0.015	0.10	0.93	21	0.08	6.52	58	0.9
ZZ69100		0.006	0.11	2.02	22	0.06	23.3	117	1.4
ZZ69101		<0.005	0.16	1.58	24	<0.05	18.35	128	1.6
ZZ69102		<0.005	0.16	2.09	28	<0.05	16.30	121	2.6
ZZ69103		0.009	0.12	1.28	24	0.13	33.1	140	1.5
ZZ69104		0.023	0.14	1.20	38	0.12	18.20	121	0.6
ZZ69105		0.015	0.46	2.80	53	0.14	24.4	225	3.6
ZZ69106		0.005	0.20	3.35	48	0.13	39.8	145	2.7
ZZ69107		0.008	0.23	5.12	50	0.17	26.6	146	1.6
ZZ69108		0.011	0.19	1.61	45	0.17	12.80	143	1.9
ZZ69109		0.007	0.29	4.47	59	0.16	49.5	266	2.8
ZZ69110		0.005	0.22	3.44	51	0.12	36.9	140	2.2



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69111		0.23	0.006	6.07	0.61	38.0	<0.2	10	1420	0.75	0.25	1.12	6.70	15.65	7.6	76
ZZ69112		0.14	0.005	4.13	0.47	25.3	<0.2	10	2300	0.50	0.17	1.41	2.12	14.50	5.8	44
ZZ69113		0.19	0.005	1.50	0.70	13.3	<0.2	10	1520	0.56	0.13	4.38	1.32	15.50	4.5	49
ZZ69114		0.17	0.001	0.02	0.19	9	<0.2	<10	30	0.14	0.03	17.60	0.14	5.53	1.9	5
ZZ69115		0.16	0.003	0.02	0.20	14	<0.2	<10	20	0.15	0.05	18.75	0.14	6.72	3.3	6
ZZ69116		0.22	0.002	0.02	0.20	12	<0.2	<10	20	0.14	0.03	18.60	0.09	6.99	2.6	7
ZZ69117		0.19	0.001	0.04	0.35	16	<0.2	<10	30	0.20	0.04	15.70	0.21	12.80	9.3	34
ZZ69118		0.18	0.003	0.06	0.44	14	<0.2	<10	80	0.30	0.07	15.25	0.26	13.35	4.3	7
ZZ69119		0.25	0.001	0.02	0.19	11	<0.2	<10	60	0.15	0.03	17.80	0.11	7.95	2.4	5
ZZ69120		0.18	0.002	0.09	0.82	18	<0.2	<10	100	0.48	0.11	11.50	0.46	23.6	6.7	15
ZZ69121		0.13	0.003	0.18	1.17	21.2	<0.2	<10	120	0.60	0.17	6.45	0.64	28.8	9.8	23
ZZ69122		0.21	0.015	2.25	1.48	115.5	<0.2	10	2000	2.42	0.40	7.31	9.96	43.6	28.8	158
ZZ69123		0.16	0.004	1.13	1.01	26.6	<0.2	<10	1560	0.73	0.17	4.76	1.04	21.8	6.6	48
ZZ69124		0.14	0.006	3.14	1.23	19.1	<0.2	<10	2310	0.72	0.21	1.71	0.97	25.5	5.5	42
ZZ69125		0.36	0.006	2.68	1.01	21.8	<0.2	10	1050	0.66	0.18	1.96	1.43	19.75	4.7	43
ZZ69126		0.19	0.002	0.81	0.72	12.1	<0.2	<10	260	0.31	0.22	0.32	0.91	12.40	4.2	24
ZZ69127		0.22	0.001	0.07	1.02	9.6	<0.2	<10	500	0.15	0.27	0.11	0.22	18.60	3.3	21
ZZ69128		0.19	0.005	3.19	1.26	15.7	<0.2	<10	810	0.71	0.18	0.78	0.50	25.0	7.2	40
ZZ69129		0.21	0.003	0.62	1.37	14.9	<0.2	<10	580	0.55	0.18	0.58	1.15	21.5	6.7	38
ZZ69130		0.20	0.002	0.14	1.00	7.1	<0.2	<10	350	0.20	0.26	0.54	0.17	16.75	3.1	20
ZZ69131		0.16	0.001	0.20	1.65	10.1	<0.2	<10	450	0.72	0.27	0.77	0.33	20.7	4.2	27
ZZ69132		0.21	0.008	4.01	1.22	19.4	<0.2	<10	520	0.71	0.23	0.28	0.67	22.6	3.9	51
ZZ69133		0.24	0.004	0.54	1.62	12.1	<0.2	<10	710	0.76	0.27	1.06	0.21	25.8	6.4	32
ZZ69134		0.21	0.003	0.60	0.84	13.3	<0.2	<10	540	0.50	0.17	0.91	0.41	13.90	4.1	30
ZZ69135		0.20	0.006	1.94	0.83	13.6	<0.2	10	940	0.60	0.16	3.68	0.83	15.00	4.5	51
ZZ69136		0.25	0.007	2.30	0.66	19.4	<0.2	10	1380	0.61	0.17	2.49	0.88	10.55	3.6	47
ZZ69137		0.21	0.010	1.96	0.80	13.1	<0.2	10	1660	0.61	0.15	1.96	2.06	10.50	4.1	39
ZZ69138		0.24	0.005	0.81	1.35	41.6	<0.2	<10	1460	0.73	0.21	3.51	1.87	18.30	9.8	27
ZZ69139		0.20	0.005	1.61	1.05	45.9	<0.2	<10	970	0.90	0.21	2.91	2.22	14.75	6.9	32
ZZ69140		0.13	0.003	0.86	1.60	21.5	<0.2	<10	1020	0.83	0.23	0.91	1.24	21.4	6.4	36
ZZ69141		0.19	0.006	3.09	1.75	41.7	<0.2	<10	1400	1.52	0.22	3.03	1.39	27.2	7.0	52
ZZ69142		0.27	0.008	2.99	1.22	39.6	<0.2	<10	1830	1.07	0.22	3.33	3.54	16.95	5.6	48
ZZ69143		0.19	0.007	4.15	1.83	30.9	<0.2	<10	1810	1.44	0.25	1.69	1.34	29.1	5.9	57
ZZ69144		0.36	0.007	5.99	1.33	39.6	<0.2	<10	2580	1.19	0.25	1.00	2.92	20.2	6.0	81
ZZ69145		0.19	0.005	2.42	2.03	22.5	<0.2	<10	1300	0.95	0.26	0.68	1.61	30.6	7.1	53
ZZ69146		0.23	0.006	2.00	1.32	28.0	<0.2	<10	1290	0.87	0.25	0.89	1.28	26.2	7.1	75
ZZ69147		0.22	0.007	5.83	1.04	32.9	<0.2	10	1200	1.01	0.22	1.42	2.74	15.15	4.1	153
ZZ69148		0.11	0.004	2.44	0.67	15.9	<0.2	10	710	0.53	0.16	3.12	1.59	11.05	4.2	43
ZZ69149		0.17	0.008	4.09	0.85	21.5	<0.2	10	880	0.73	0.20	2.40	1.31	15.00	4.3	61
ZZ69150		0.23	0.002	0.93	1.89	10.3	<0.2	<10	660	0.69	0.27	0.84	0.48	25.6	8.8	40

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ69111		1.50	68.5	3.48	2.10	0.14	0.11	0.29	0.054	0.12	14.3	4.6	0.05	86	33.6	0.01
ZZ69112		0.91	52.3	2.37	1.47	0.11	0.11	0.27	0.041	0.10	11.9	2.6	0.05	68	14.05	0.01
ZZ69113		1.04	30.0	1.85	2.25	0.09	0.09	0.25	0.028	0.08	17.0	8.6	0.44	164	2.73	0.01
ZZ69114		0.20	4.0	0.34	0.46	<0.05	0.03	0.04	0.008	0.02	4.2	1.6	10.70	118	0.43	0.02
ZZ69115		0.36	5.3	0.52	0.53	<0.05	0.03	0.08	0.009	0.03	3.8	1.7	10.35	117	1.13	0.02
ZZ69116		0.51	4.3	0.59	0.51	<0.05	0.03	0.08	0.009	0.03	3.6	1.2	10.60	122	0.90	0.02
ZZ69117		0.56	6.8	1.36	1.09	0.05	0.04	0.19	0.021	0.05	6.0	1.5	9.25	274	2.14	0.01
ZZ69118		0.38	6.3	0.76	1.03	0.05	0.06	0.05	0.010	0.03	10.4	1.9	9.00	995	1.00	0.02
ZZ69119		0.32	3.7	0.50	0.56	0.05	0.03	0.04	0.006	0.03	5.4	2.0	10.45	254	0.62	0.02
ZZ69120		0.76	11.8	1.69	1.94	0.06	0.04	0.05	0.021	0.04	14.9	4.2	6.55	846	2.12	0.02
ZZ69121		0.87	17.0	2.58	2.83	0.06	0.06	0.06	0.031	0.07	16.3	6.2	3.61	700	2.83	0.01
ZZ69122		2.11	160.0	3.97	4.50	0.30	0.17	0.70	0.082	0.14	43.9	4.1	1.00	195	123.5	0.01
ZZ69123		0.58	24.6	2.36	2.83	0.09	0.06	0.14	0.036	0.09	18.4	7.2	1.64	322	16.75	0.01
ZZ69124		0.82	33.3	2.46	3.37	0.10	0.09	0.17	0.039	0.09	19.1	7.2	0.18	183	6.90	0.01
ZZ69125		0.81	41.9	2.33	2.69	0.09	0.13	0.18	0.036	0.09	18.0	5.6	0.43	184	5.27	0.01
ZZ69126		1.16	21.8	2.11	2.96	<0.05	<0.02	0.04	0.027	0.08	6.2	3.4	0.08	266	3.59	<0.01
ZZ69127		0.96	10.7	1.77	6.74	<0.05	<0.02	0.03	0.017	0.03	9.7	3.2	0.11	97	2.12	<0.01
ZZ69128		0.87	29.3	2.39	2.91	0.09	0.06	0.22	0.033	0.07	15.6	6.9	0.28	262	3.88	0.01
ZZ69129		1.39	19.7	2.62	3.92	0.07	0.03	0.04	0.034	0.06	12.2	9.3	0.27	267	2.94	0.01
ZZ69130		1.08	9.5	1.70	6.06	<0.05	<0.02	0.03	0.020	0.03	7.9	4.1	0.11	188	1.69	<0.01
ZZ69131		1.45	8.4	2.33	5.35	<0.05	<0.02	0.04	0.027	0.05	11.4	10.3	0.26	231	1.15	<0.01
ZZ69132		1.04	41.3	2.56	3.70	0.08	0.02	0.23	0.030	0.08	13.5	7.4	0.09	78	8.59	<0.01
ZZ69133		1.30	18.4	2.48	5.21	0.05	0.02	0.09	0.023	0.04	14.7	10.7	0.30	285	1.19	0.01
ZZ69134		0.71	16.9	1.87	2.55	<0.05	0.04	0.10	0.028	0.05	7.2	6.5	0.11	189	3.10	<0.01
ZZ69135		0.85	34.6	1.85	2.66	0.07	0.05	0.28	0.030	0.09	13.3	8.9	0.39	130	3.12	0.01
ZZ69136		0.61	37.8	2.16	2.09	0.07	0.07	0.23	0.030	0.08	9.8	6.2	0.18	92	3.75	0.01
ZZ69137		0.45	42.0	1.70	2.26	0.07	0.05	0.19	0.028	0.05	7.6	6.1	0.13	58	3.44	0.01
ZZ69138		1.02	21.5	2.22	3.96	0.05	0.06	0.69	0.025	0.06	9.5	9.3	1.36	302	7.32	0.01
ZZ69139		1.20	37.2	1.92	3.40	0.05	0.08	0.71	0.023	0.08	9.3	7.6	0.43	198	9.29	0.01
ZZ69140		1.52	15.7	2.58	4.77	0.05	0.03	0.35	0.028	0.06	12.1	12.2	0.36	186	6.21	0.01
ZZ69141		1.21	37.8	2.59	4.35	0.10	0.13	1.23	0.046	0.13	18.9	8.6	1.25	191	22.4	0.01
ZZ69142		1.19	45.0	2.24	3.83	0.08	0.07	1.01	0.039	0.14	12.2	7.1	1.59	159	20.4	0.01
ZZ69143		1.43	33.0	2.54	4.09	0.07	0.12	0.46	0.046	0.11	17.3	8.3	0.64	172	16.30	0.01
ZZ69144		1.19	47.2	2.72	3.89	0.10	0.07	0.92	0.043	0.15	15.6	7.1	0.17	166	28.6	0.01
ZZ69145		1.29	24.9	2.84	5.21	0.08	0.05	0.25	0.038	0.08	17.7	12.0	0.29	296	10.45	0.01
ZZ69146		1.28	33.3	2.82	4.02	0.08	0.04	0.24	0.043	0.12	14.6	9.6	0.14	213	16.45	0.01
ZZ69147		1.37	39.9	2.41	4.10	0.13	0.08	0.42	0.043	0.13	17.1	8.3	0.08	97	20.7	<0.01
ZZ69148		0.75	25.9	1.53	1.97	0.07	0.07	0.53	0.029	0.08	10.7	4.1	0.09	184	2.89	0.01
ZZ69149		0.85	49.8	2.01	2.73	0.09	0.07	0.64	0.034	0.13	12.7	6.9	0.29	142	5.36	0.01
ZZ69150		1.90	10.7	2.45	5.98	0.06	<0.02	0.09	0.035	0.04	14.2	12.3	0.31	617	1.52	<0.01

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**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69111		0.11	163.0	3450	14.8	11.0	0.020	0.11	4.63	6.3	9.8	0.5	169.0	0.01	0.18	2.0
ZZ69112		0.08	123.0	3000	10.3	8.0	0.011	0.11	2.82	6.2	8.2	0.4	172.0	0.01	0.11	2.1
ZZ69113		0.33	43.3	3220	8.6	8.6	0.007	0.16	1.07	2.3	5.3	0.3	115.0	0.01	0.11	0.8
ZZ69114		0.24	4.2	240	2.7	1.8	0.001	0.03	0.61	0.9	0.4	<0.2	76.3	<0.01	0.02	0.4
ZZ69115		0.24	7.0	170	3.2	2.3	0.001	0.03	1.17	1.2	0.4	<0.2	133.0	<0.01	0.03	0.7
ZZ69116		0.21	7.1	150	2.4	2.2	0.001	0.03	0.91	1.5	0.4	<0.2	120.0	<0.01	0.02	0.6
ZZ69117		0.29	18.4	820	5.5	2.8	0.001	0.03	1.80	3.2	0.5	0.2	44.1	<0.01	0.03	0.6
ZZ69118		0.25	8.1	1420	11.8	3.6	0.001	0.08	1.83	0.8	0.6	<0.2	75.1	0.01	0.04	0.3
ZZ69119		0.26	6.1	530	3.7	1.7	<0.001	0.02	1.28	1.1	0.3	<0.2	118.0	<0.01	0.02	0.7
ZZ69120		0.29	16.6	1430	11.1	6.0	0.001	0.10	2.29	1.2	0.7	0.2	68.0	0.01	0.05	0.4
ZZ69121		0.40	26.5	1210	11.2	7.1	0.001	0.11	1.51	2.2	0.9	0.4	46.4	0.01	0.05	0.6
ZZ69122		0.25	868	7010	21.7	11.1	0.021	0.16	17.25	6.3	19.6	1.3	287	0.02	0.61	3.7
ZZ69123		0.34	63.8	2540	11.6	7.5	0.003	0.21	3.40	1.9	5.6	0.4	89.0	0.01	0.11	0.6
ZZ69124		0.37	56.6	3290	10.4	8.7	0.002	0.21	1.82	2.5	6.1	0.5	72.0	0.01	0.09	0.9
ZZ69125		0.32	57.0	3210	10.8	9.2	0.002	0.13	2.05	3.6	5.1	0.4	72.1	0.01	0.09	1.6
ZZ69126		0.09	29.9	2160	10.8	12.7	0.001	0.11	1.18	0.4	2.3	0.4	33.3	<0.01	0.07	<0.2
ZZ69127		0.36	13.2	630	9.9	3.9	<0.001	0.05	0.83	0.5	0.8	0.9	11.0	<0.01	0.05	<0.2
ZZ69128		0.37	49.6	1430	9.8	8.9	0.002	0.11	1.33	3.0	3.8	0.4	60.9	0.01	0.07	0.9
ZZ69129		0.41	36.6	1700	10.3	10.2	0.001	0.08	1.11	1.8	1.9	0.4	42.5	<0.01	0.06	0.6
ZZ69130		0.23	10.9	1340	11.4	4.4	<0.001	0.07	0.64	0.4	0.7	0.8	20.1	<0.01	0.05	<0.2
ZZ69131		0.43	14.2	1630	14.1	10.1	0.001	0.09	0.61	1.0	0.8	0.5	21.6	<0.01	0.04	0.3
ZZ69132		0.46	59.3	2670	11.9	8.9	0.004	0.16	1.73	2.4	8.1	0.5	46.7	<0.01	0.12	1.0
ZZ69133		0.80	20.9	1220	13.9	8.1	0.001	0.06	0.68	2.4	1.2	0.6	40.2	<0.01	0.06	0.9
ZZ69134		0.27	28.9	1270	10.3	6.5	<0.001	0.12	1.24	1.4	2.6	0.3	45.7	<0.01	0.06	0.5
ZZ69135		0.32	48.3	2420	9.9	8.0	0.001	0.12	1.29	2.4	4.6	0.3	104.0	<0.01	0.12	0.9
ZZ69136		0.18	50.7	2400	9.9	6.7	0.015	0.12	1.52	3.0	5.1	0.3	136.5	<0.01	0.10	1.0
ZZ69137		0.28	58.2	1610	9.3	6.4	0.007	0.13	2.11	2.6	7.2	0.3	94.0	<0.01	0.08	0.7
ZZ69138		0.49	119.5	1110	12.9	6.9	0.001	0.07	3.41	2.6	2.2	0.5	67.9	<0.01	0.11	1.0
ZZ69139		0.45	57.7	1140	11.8	9.9	0.001	0.10	3.45	3.0	3.5	0.5	44.7	<0.01	0.12	1.0
ZZ69140		0.80	32.1	720	14.3	11.5	0.001	0.06	2.13	3.3	2.2	0.6	28.4	<0.01	0.10	2.0
ZZ69141		0.35	60.7	1670	16.2	13.6	0.003	0.22	5.57	6.7	6.9	0.7	104.0	<0.01	0.19	2.9
ZZ69142		0.25	55.3	2060	15.3	12.9	0.005	0.21	5.47	4.4	7.9	0.7	114.0	<0.01	0.18	1.6
ZZ69143		0.34	55.6	1790	17.5	14.4	0.001	0.16	4.12	5.9	6.6	0.7	93.5	<0.01	0.19	2.8
ZZ69144		0.23	90.8	3150	16.1	14.0	0.006	0.22	5.52	5.4	11.8	0.7	144.5	<0.01	0.23	3.1
ZZ69145		0.85	48.4	2430	15.7	10.3	0.004	0.12	2.84	4.3	6.1	0.6	75.3	<0.01	0.10	2.6
ZZ69146		0.33	82.0	3180	15.1	14.0	0.003	0.17	3.78	3.3	9.9	0.7	122.0	<0.01	0.20	2.0
ZZ69147		0.10	92.6	4370	12.2	12.5	0.011	0.16	4.59	5.5	14.4	0.6	192.5	<0.01	0.23	2.0
ZZ69148		0.18	42.0	2760	9.9	7.6	0.009	0.10	1.31	2.8	5.6	0.4	109.5	<0.01	0.12	1.0
ZZ69149		0.19	63.0	2760	11.5	10.0	0.003	0.12	1.71	3.3	7.6	0.5	103.0	<0.01	0.16	1.2
ZZ69150		0.62	22.5	1660	16.8	8.2	<0.001	0.06	0.52	1.9	1.1	0.6	34.4	<0.01	0.05	0.6

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69111		<0.005	0.45	7.42	89	0.29	48.6	547	3.3
ZZ69112		<0.005	0.27	5.01	53	0.23	44.5	330	3.5
ZZ69113		0.007	0.19	3.68	39	0.11	46.2	176	2.3
ZZ69114		0.005	0.15	0.42	7	<0.05	5.48	25	1.4
ZZ69115		0.005	0.40	0.68	7	<0.05	4.09	21	1.3
ZZ69116		<0.005	0.64	0.63	6	<0.05	4.86	17	1.1
ZZ69117		0.005	1.03	1.18	22	<0.05	16.95	33	0.8
ZZ69118		0.008	0.43	1.36	13	0.05	18.65	49	1.8
ZZ69119		0.005	0.27	1.27	7	<0.05	7.70	15	1.1
ZZ69120		0.008	0.51	1.13	24	0.09	19.45	68	1.1
ZZ69121		0.012	0.87	0.88	35	0.13	17.35	103	1.4
ZZ69122		<0.005	5.78	20.9	250	0.29	116.5	1370	6.1
ZZ69123		0.008	0.94	2.62	79	0.22	32.4	179	1.6
ZZ69124		0.009	0.36	4.33	58	0.18	37.4	212	2.1
ZZ69125		0.008	0.27	2.38	65	0.12	36.8	216	3.8
ZZ69126		<0.005	0.15	0.98	42	0.11	5.38	161	<0.5
ZZ69127		0.017	0.21	0.68	73	0.24	2.92	59	<0.5
ZZ69128		0.011	0.19	1.76	51	0.14	27.8	149	1.3
ZZ69129		0.013	0.17	1.46	57	0.16	13.10	235	0.8
ZZ69130		0.008	0.21	0.67	64	0.18	2.93	61	<0.5
ZZ69131		0.014	0.18	1.49	54	0.22	12.10	77	<0.5
ZZ69132		0.010	0.35	4.44	72	0.18	27.3	201	0.5
ZZ69133		0.022	0.16	2.31	55	0.27	15.35	59	0.8
ZZ69134		0.008	0.23	1.73	48	0.14	13.90	125	0.9
ZZ69135		0.008	0.26	3.12	42	0.11	34.2	149	2.0
ZZ69136		<0.005	0.18	3.99	51	0.23	37.6	151	1.8
ZZ69137		0.005	0.16	4.68	55	0.11	24.5	203	2.0
ZZ69138		0.010	0.95	2.49	107	0.19	12.45	347	2.0
ZZ69139		0.008	0.96	4.46	122	0.10	16.00	181	2.4
ZZ69140		0.016	0.66	1.98	131	0.24	11.20	122	1.1
ZZ69141		0.005	1.91	4.18	223	0.16	29.7	204	3.9
ZZ69142		0.006	2.33	4.57	219	0.16	27.3	229	2.2
ZZ69143		0.005	1.59	3.84	177	0.16	25.4	193	3.0
ZZ69144		<0.005	2.00	7.10	216	0.19	35.1	325	2.7
ZZ69145		0.021	0.77	4.54	124	0.29	23.5	165	1.9
ZZ69146		0.007	0.90	5.32	140	0.21	27.8	275	1.4
ZZ69147		<0.005	0.80	8.64	150	0.16	43.3	382	2.8
ZZ69148		<0.005	0.34	3.81	50	0.07	39.5	197	2.5
ZZ69149		0.005	0.59	3.41	69	0.08	37.1	199	1.8
ZZ69150		0.018	0.27	2.22	70	0.19	16.20	74	<0.5



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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69151		0.17	0.005	5.78	1.25	18.6	<0.2	<10	450	0.75	0.20	2.60	1.46	22.1	4.4	60
ZZ69152		0.20	0.003	2.06	1.40	13.6	<0.2	<10	610	0.72	0.24	1.05	0.45	23.4	6.6	38
ZZ69153		0.11	0.003	0.61	1.90	11.8	<0.2	<10	460	0.67	0.27	0.66	0.23	26.8	6.5	37
ZZ69154		0.16	0.004	0.50	1.62	13.5	<0.2	<10	880	0.78	0.25	0.96	0.34	29.7	9.6	33
ZZ69155		0.14	0.002	0.57	1.45	8.9	<0.2	<10	400	0.66	0.22	1.51	3.25	17.75	5.2	39
ZZ69156		0.19	0.002	0.62	1.33	12.4	<0.2	<10	350	0.50	0.22	0.44	0.26	23.0	5.1	38
ZZ69157		0.17	0.003	0.60	0.91	6.9	<0.2	<10	280	0.32	0.16	0.60	0.85	9.91	2.9	23
ZZ69158		0.19	0.003	0.52	1.74	15.1	<0.2	<10	240	0.82	0.17	3.46	0.43	30.8	8.4	30
ZZ69159		0.16	0.001	0.28	1.41	12.1	<0.2	<10	210	0.45	0.22	1.21	0.30	24.8	5.6	22
ZZ69160		0.15	0.003	0.09	0.77	11.9	<0.2	<10	120	0.21	0.23	0.25	0.77	24.9	4.0	21
ZZ69161		0.15	0.003	1.12	0.45	4.8	<0.2	<10	990	0.28	0.14	1.67	0.92	10.35	4.5	9
ZZ69162		0.31	0.005	1.45	0.35	7.6	<0.2	10	1640	0.21	0.22	1.70	0.51	13.65	7.8	8
ZZ69163		0.14	0.003	0.79	0.74	9.0	<0.2	<10	350	0.34	0.16	2.40	0.98	22.0	6.3	22
ZZ69164		0.13	0.007	0.83	0.86	7.6	<0.2	10	520	0.38	0.18	3.57	1.40	19.95	5.4	28
ZZ69165		0.12	0.004	0.15	1.02	8.6	<0.2	<10	350	0.28	0.19	1.95	1.29	15.45	5.6	21
ZZ69166		0.12	0.004	0.19	1.10	11.7	<0.2	<10	380	0.43	0.18	2.98	0.89	21.5	7.1	26

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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69151		0.82	44.0	2.20	3.98	0.08	0.02	0.24	0.034	0.07	15.8	9.2	0.16	163	5.54	0.01
ZZ69152		1.34	20.7	2.28	4.55	0.07	0.02	0.14	0.031	0.06	13.3	10.1	0.31	386	2.34	<0.01
ZZ69153		1.66	11.7	2.74	5.87	0.05	0.02	0.06	0.030	0.04	12.2	13.3	0.33	215	1.59	<0.01
ZZ69154		1.14	16.5	2.61	4.86	0.06	0.03	0.08	0.026	0.05	14.9	12.9	0.45	506	1.31	0.01
ZZ69155		0.96	11.4	1.98	4.06	<0.05	<0.02	0.07	0.028	0.05	10.4	8.0	0.15	494	1.86	<0.01
ZZ69156		1.47	16.7	2.59	3.95	0.05	0.02	0.11	0.029	0.05	10.9	8.2	0.13	236	3.15	0.01
ZZ69157		1.35	13.9	1.44	3.12	<0.05	0.02	0.05	0.026	0.06	5.9	4.5	0.10	211	2.79	0.01
ZZ69158		1.46	14.4	2.93	3.66	0.07	0.04	0.08	0.033	0.06	15.1	11.1	1.94	327	2.27	0.02
ZZ69159		1.14	9.5	2.30	5.92	0.05	<0.02	0.05	0.026	0.04	11.9	8.2	0.62	304	1.47	0.01
ZZ69160		0.89	12.1	2.50	5.36	0.05	<0.02	0.03	0.021	0.04	10.9	5.4	0.09	154	2.48	0.01
ZZ69161		0.63	33.9	1.77	1.10	0.05	0.06	0.08	0.030	0.07	6.6	1.5	0.05	135	1.25	0.02
ZZ69162		0.39	41.4	2.68	0.83	0.07	0.11	0.13	0.039	0.09	8.0	2.4	0.14	168	1.72	0.02
ZZ69163		0.36	19.2	1.88	2.13	0.06	0.04	0.08	0.024	0.04	18.6	6.7	0.24	269	2.94	0.01
ZZ69164		0.29	17.5	1.78	2.07	0.06	0.06	0.11	0.022	0.06	20.7	5.9	0.24	414	3.20	0.02
ZZ69165		0.66	15.5	1.93	3.77	<0.05	0.03	0.07	0.024	0.04	11.1	6.4	0.17	444	3.77	0.01
ZZ69166		0.45	14.3	2.12	2.68	0.07	0.06	0.10	0.024	0.04	23.9	7.4	0.20	450	1.15	0.01

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**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69151		0.53	63.8	4120	12.2	7.3	0.004	0.08	1.52	2.8	5.3	0.5	114.5	<0.01	0.10	0.9
ZZ69152		0.55	34.1	2060	12.6	11.2	<0.001	0.08	0.90	2.4	2.7	0.5	46.3	<0.01	0.06	0.9
ZZ69153		0.79	23.1	1160	14.6	8.3	<0.001	0.05	0.64	2.1	1.4	0.6	32.4	<0.01	0.05	0.8
ZZ69154		0.71	27.3	1080	13.4	8.5	0.001	0.06	0.86	2.2	1.0	0.5	33.6	<0.01	0.04	1.0
ZZ69155		0.60	19.1	1660	13.1	7.5	0.002	0.12	0.85	1.0	1.1	0.5	54.7	<0.01	0.05	0.3
ZZ69156		0.31	31.6	1900	13.1	8.4	0.003	0.08	0.75	0.9	2.7	0.5	41.1	<0.01	0.06	0.2
ZZ69157		0.24	19.2	2020	8.9	11.9	0.001	0.11	0.64	0.6	1.7	0.5	39.2	<0.01	0.04	<0.2
ZZ69158		0.67	24.4	1420	33.4	11.2	0.001	0.07	1.04	2.9	1.2	0.4	42.8	0.01	0.04	0.8
ZZ69159		0.46	17.8	990	16.8	6.3	<0.001	0.05	0.64	1.0	0.6	0.6	24.6	<0.01	0.04	<0.2
ZZ69160		1.08	16.9	640	13.7	9.5	0.001	0.04	0.79	1.7	0.8	0.5	13.9	<0.01	0.05	0.7
ZZ69161		0.14	34.5	1020	9.0	6.9	0.001	0.18	0.89	2.2	2.0	0.2	63.8	<0.01	0.11	0.5
ZZ69162		0.13	56.3	720	13.9	5.7	0.001	0.17	1.59	3.2	2.7	0.2	76.3	<0.01	0.17	1.3
ZZ69163		0.35	33.1	900	9.0	6.0	0.001	0.07	0.68	1.3	2.2	0.3	46.2	0.01	0.06	0.4
ZZ69164		0.32	28.5	1710	11.4	7.2	0.001	0.17	0.69	1.0	2.6	0.3	57.0	0.01	0.07	0.4
ZZ69165		0.76	17.5	1130	10.2	4.5	<0.001	0.16	0.82	1.3	1.4	0.5	33.6	0.01	0.06	0.3
ZZ69166		0.40	20.4	2460	12.1	4.6	<0.001	0.16	0.66	1.1	1.4	0.3	38.3	0.01	0.07	0.5

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**CERTIFICATE OF ANALYSIS WH12145882**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69151		0.013	0.21	3.54	75	0.18	33.8	214	0.8
ZZ69152		0.017	0.22	2.46	58	0.17	16.10	98	0.9
ZZ69153		0.024	0.19	1.53	67	0.31	9.98	75	<0.5
ZZ69154		0.025	0.12	1.77	58	0.29	15.35	92	0.9
ZZ69155		0.017	0.14	1.66	67	0.17	14.05	145	0.5
ZZ69156		0.010	0.21	2.06	65	0.21	10.70	94	<0.5
ZZ69157		0.006	0.18	1.63	45	0.13	5.59	84	<0.5
ZZ69158		0.015	0.16	1.71	46	0.27	14.95	71	1.0
ZZ69159		0.018	0.20	1.14	52	0.28	7.93	53	<0.5
ZZ69160		0.034	0.11	0.89	60	0.36	8.19	127	<0.5
ZZ69161		<0.005	0.06	2.65	17	0.05	16.70	127	1.5
ZZ69162		<0.005	0.11	1.05	17	0.06	22.4	180	3.9
ZZ69163		0.012	0.08	0.70	27	0.20	29.3	121	1.0
ZZ69164		0.011	0.09	1.02	27	0.14	34.6	144	1.0
ZZ69165		0.021	0.09	1.07	40	0.15	17.45	113	1.0
ZZ69166		0.011	0.11	1.39	33	0.14	36.7	100	0.8

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**CERTIFICATE OF ANALYSIS WH12145882**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12145883**

Project: ATAC- Regional Area G (Midway)  
 P.O. No.: Soil 8  
 This report is for 256 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

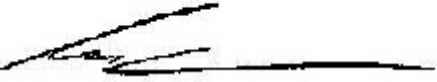
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12145883**

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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020291		0.22	0.005	0.02	0.15	11	<0.2	<10	40	0.19	0.02	19.60	0.12	4.76	4.8	4
DD020292		0.14	0.002	0.03	0.27	7	<0.2	<10	40	0.23	0.04	17.65	0.20	10.50	2.7	4
DD020293		0.13	0.002	0.02	0.26	8	<0.2	<10	110	0.28	0.03	18.35	0.25	12.90	2.8	4
DD020294		0.22	0.002	0.10	0.65	22	<0.2	<10	100	0.71	0.08	14.40	0.59	20.5	6.1	11
DD020295		0.24	0.003	0.78	1.18	22.1	<0.2	<10	740	0.81	0.19	1.36	0.46	17.90	5.9	30
DD020296		0.12	0.003	0.32	1.75	13.4	<0.2	<10	510	0.66	0.27	0.60	0.60	32.4	9.0	28
DD020297		0.14	0.002	0.63	0.89	10.8	<0.2	<10	410	0.57	0.16	1.63	1.36	19.75	5.2	27
DD020298		0.21	0.002	0.24	0.68	34.7	<0.2	<10	270	0.64	0.19	0.72	1.31	22.0	8.2	24
DD020299		0.23	0.005	0.71	1.01	38.1	<0.2	<10	480	0.74	0.30	0.74	1.23	29.3	9.8	39
DD020300		0.35	0.003	0.25	0.51	24.0	<0.2	<10	240	0.50	0.14	2.44	1.25	19.45	5.5	25
DD020384		0.14	0.003	1.20	0.72	12.0	<0.2	10	520	0.52	0.18	2.74	1.79	23.3	6.6	28
DD020385		0.36	0.006	0.65	0.59	29.6	<0.2	<10	510	0.66	0.33	0.48	0.84	29.7	16.3	20
DD020386		0.25	0.011	5.75	0.67	31.6	<0.2	20	1090	0.67	0.25	2.52	2.23	19.45	7.7	55
DD020387		0.24	0.001	0.03	0.15	7	<0.2	<10	60	0.33	0.03	18.45	0.10	9.03	2.1	3
DD020388		0.16	0.002	0.03	0.33	10	<0.2	<10	80	0.50	0.06	18.00	0.19	17.60	4.2	5
DD020389		0.20	0.002	0.06	0.33	5	<0.2	<10	40	0.32	0.05	17.85	0.18	12.45	4.4	7
DD020390		0.20	0.002	0.06	0.52	16	<0.2	<10	80	0.57	0.08	14.80	0.24	18.40	9.3	12
DD020391		0.22	0.001	0.03	0.29	10	<0.2	<10	40	0.24	0.05	18.10	0.18	8.91	3.6	6
DD020392		0.20	0.002	0.03	0.26	8	<0.2	<10	60	0.24	0.04	17.70	0.13	9.47	3.0	5
DD020393		0.15	0.002	0.04	0.39	15	<0.2	<10	100	0.38	0.06	15.45	0.19	13.15	6.1	9
DD020394		0.23	0.002	0.01	0.09	5	<0.2	<10	100	0.18	0.02	19.45	0.07	6.13	1.6	2
DD020395		0.19	0.001	0.02	0.32	16	<0.2	<10	280	0.26	0.06	17.30	0.08	14.80	6.8	7
DD020396		0.19	0.002	0.05	0.53	25	<0.2	<10	210	0.41	0.10	13.35	0.17	19.15	8.9	13
DD020397		0.12	0.002	0.05	0.56	15	<0.2	<10	60	0.43	0.09	14.65	0.33	18.30	7.2	14
DD020398		0.19	0.001	0.06	0.58	16	<0.2	<10	80	0.56	0.09	14.35	0.34	24.8	8.2	15
DD020399		0.17	0.001	0.04	0.44	13	<0.2	<10	80	0.49	0.08	14.50	0.25	22.9	9.1	14
DD020400		0.17	0.002	0.05	0.41	11	<0.2	<10	50	0.25	0.06	14.90	0.22	13.95	4.2	7
DD020401		0.13	0.003	0.06	0.44	15	<0.2	<10	80	0.32	0.07	14.50	0.20	16.65	6.8	11
DD020402		0.20	0.002	0.04	0.49	28	<0.2	<10	70	0.45	0.11	13.75	0.29	25.4	11.0	19
DD020403		0.20	0.003	0.05	0.44	19	<0.2	<10	50	0.35	0.09	16.10	0.27	18.65	6.7	18
DD020404		0.26	0.001	0.03	0.43	19	<0.2	<10	60	0.37	0.11	14.45	0.24	21.4	14.4	35
DD020405		0.17	0.002	0.06	0.49	25	<0.2	<10	80	0.39	0.10	14.00	0.27	18.65	12.0	14
DD020406		0.21	0.002	0.05	0.53	32	<0.2	<10	100	0.48	0.11	12.55	0.27	21.6	28.7	17
DD020407		0.18	0.002	0.05	0.37	32	<0.2	<10	40	0.37	0.10	14.50	0.20	18.80	13.2	17
DD020408		0.45	0.001	0.03	0.31	19	<0.2	<10	50	0.24	0.06	15.45	0.16	12.30	9.7	16
DD020409		0.26	0.001	0.02	0.53	19.4	<0.2	<10	70	0.45	0.05	3.91	0.11	27.6	9.2	7
DD020410		0.23	0.001	0.04	0.31	15	<0.2	<10	50	0.30	0.05	17.05	0.22	13.45	6.6	10
DD020411		0.22	0.001	0.03	0.33	18	<0.2	<10	80	0.25	0.08	16.00	0.12	16.50	8.5	7
DD020412		0.13	0.002	0.12	0.78	15.8	<0.2	<10	120	0.48	0.13	8.17	0.42	21.7	11.5	21
DD020413		0.27	0.002	0.05	0.39	13	<0.2	<10	50	0.30	0.06	15.20	0.25	10.05	5.8	11





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**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020291		1.21	6.2	0.37	0.40	<0.05	0.03	0.06	0.006	0.02	4.0	1.3	11.50	223	0.49	0.01
DD020292		0.25	5.1	0.43	0.65	<0.05	0.04	0.03	0.007	0.02	8.0	2.1	10.80	516	0.42	0.02
DD020293		0.24	4.0	0.45	0.60	<0.05	0.06	0.02	0.007	0.02	8.7	1.7	10.75	651	0.38	0.02
DD020294		0.61	9.6	1.31	1.61	0.05	0.07	0.07	0.015	0.03	14.2	4.4	8.47	1070	1.06	0.01
DD020295		1.73	21.1	2.22	3.10	0.06	0.06	0.07	0.031	0.05	13.2	6.7	0.30	372	1.50	<0.01
DD020296		2.97	17.8	2.91	5.30	0.06	0.03	0.06	0.036	0.06	15.8	12.4	0.35	448	1.77	<0.01
DD020297		0.66	18.2	1.87	2.30	0.07	0.07	0.08	0.029	0.06	24.8	6.4	0.21	286	1.74	0.01
DD020298		0.93	28.4	2.24	2.06	0.08	0.09	0.15	0.034	0.08	19.7	5.2	0.13	249	2.71	<0.01
DD020299		1.70	36.0	3.28	3.09	0.11	0.12	0.20	0.053	0.09	28.9	9.4	0.28	289	3.43	<0.01
DD020300		0.60	19.5	1.69	1.57	0.07	0.09	0.09	0.028	0.05	21.4	4.5	0.13	204	1.35	<0.01
DD020384		0.37	26.5	1.92	1.97	0.08	0.08	0.11	0.036	0.07	26.2	8.7	0.18	309	4.72	0.01
DD020385		3.60	50.1	3.62	1.94	0.10	0.10	0.11	0.060	0.09	18.8	4.2	0.11	398	3.24	<0.01
DD020386		1.22	100.5	3.34	1.94	0.14	0.08	0.29	0.053	0.23	14.9	4.6	0.26	112	13.30	0.02
DD020387		0.20	3.2	0.28	0.40	<0.05	0.04	0.03	0.005	0.02	7.9	1.9	11.00	583	0.41	0.02
DD020388		0.45	5.9	0.71	0.82	<0.05	0.06	0.03	0.011	0.03	12.9	2.6	10.65	966	1.07	0.02
DD020389		0.90	6.6	0.97	0.76	<0.05	0.05	0.02	0.013	0.05	7.4	1.9	10.45	404	1.69	0.02
DD020390		0.76	12.0	1.91	1.27	0.05	0.08	0.03	0.024	0.08	10.5	2.4	8.42	512	2.36	0.01
DD020391		0.39	6.4	0.75	0.67	<0.05	0.04	0.02	0.009	0.03	5.9	1.9	10.90	457	1.09	0.02
DD020392		0.28	4.5	0.51	0.63	<0.05	0.03	0.03	0.007	0.02	7.2	1.8	10.75	558	0.62	0.02
DD020393		0.51	9.6	1.29	0.98	<0.05	0.06	0.03	0.014	0.06	7.9	2.1	9.05	562	1.78	0.01
DD020394		0.14	2.0	0.17	0.26	0.05	0.03	0.10	<0.005	0.01	5.1	1.6	11.65	284	0.37	0.02
DD020395		0.86	6.9	0.69	0.80	<0.05	0.08	0.04	0.009	0.06	10.5	1.7	10.35	607	0.69	0.02
DD020396		0.78	11.9	2.64	1.49	0.07	0.10	0.08	0.018	0.13	12.3	2.5	7.96	586	8.48	0.01
DD020397		0.85	11.9	1.58	1.38	<0.05	0.06	0.03	0.021	0.07	10.4	2.7	8.23	513	1.48	0.01
DD020398		1.34	12.4	1.83	1.41	0.05	0.08	0.03	0.024	0.08	14.2	2.8	7.91	760	1.74	0.01
DD020399		1.52	13.7	1.74	1.16	0.05	0.07	0.03	0.024	0.08	12.2	2.1	8.06	440	1.72	0.01
DD020400		0.38	7.9	0.80	1.00	<0.05	0.04	0.04	0.009	0.03	9.6	3.2	8.91	533	0.80	0.02
DD020401		0.59	10.6	1.45	1.14	<0.05	0.04	0.04	0.012	0.03	9.4	3.2	8.54	354	1.15	0.02
DD020402		2.19	17.6	2.65	1.29	0.07	0.07	0.03	0.036	0.09	12.3	2.4	7.45	271	2.85	0.01
DD020403		1.01	10.2	1.46	1.05	0.05	0.07	0.04	0.024	0.06	9.5	2.6	8.91	235	3.18	0.01
DD020404		5.20	13.2	2.34	1.03	0.06	0.08	0.02	0.034	0.10	9.8	1.6	7.65	183	3.01	0.01
DD020405		1.42	18.2	2.38	1.20	0.06	0.06	0.07	0.024	0.07	9.3	2.7	8.04	376	3.62	0.01
DD020406		1.67	24.8	4.17	1.18	0.11	0.07	0.06	0.042	0.12	8.4	1.2	6.70	165	3.12	0.01
DD020407		0.63	16.2	3.66	0.95	0.08	0.06	0.10	0.028	0.06	8.6	1.5	7.98	243	5.43	0.01
DD020408		1.64	10.0	2.54	0.80	0.07	0.04	0.35	0.023	0.06	5.6	1.7	8.37	183	2.90	0.01
DD020409		1.91	8.7	2.00	1.23	0.07	0.08	0.04	0.034	0.07	11.8	1.4	1.77	131	0.74	0.01
DD020410		0.41	10.9	1.21	0.86	<0.05	0.07	0.04	0.016	0.05	7.6	1.5	9.55	676	0.97	0.01
DD020411		0.40	5.9	0.88	1.01	0.05	0.09	0.02	0.009	0.05	11.5	2.4	9.35	830	0.69	0.02
DD020412		0.49	13.3	1.83	2.18	0.07	0.05	0.13	0.023	0.05	12.3	6.0	4.44	1120	1.60	0.01
DD020413		0.35	8.2	1.15	0.98	<0.05	0.06	0.04	0.014	0.04	5.5	2.7	8.79	614	0.96	0.01

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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020291		0.15	12.8	390	3.4	2.3	<0.001	<0.01	0.29	1.2	0.4	<0.2	119.5	<0.01	0.01	0.4
DD020292		0.25	7.2	820	6.0	2.0	<0.001	0.02	0.26	0.9	0.5	<0.2	72.2	<0.01	0.02	0.5
DD020293		0.20	5.8	1170	5.6	2.2	<0.001	0.02	0.28	1.0	0.4	<0.2	122.5	<0.01	0.02	0.6
DD020294		0.35	20.0	1380	10.8	4.5	<0.001	0.04	1.33	1.7	0.7	0.2	83.6	0.01	0.03	0.8
DD020295		0.42	33.2	1640	10.8	8.1	0.001	0.11	0.93	2.2	2.0	0.4	35.6	0.01	0.06	0.6
DD020296		0.66	29.5	1280	14.7	11.8	<0.001	0.08	0.87	2.2	1.0	0.6	21.1	0.01	0.05	0.7
DD020297		0.33	28.9	1810	10.1	7.7	0.001	0.13	0.73	1.9	2.2	0.3	35.9	0.01	0.05	0.6
DD020298		0.33	54.9	900	13.4	6.8	<0.001	0.02	1.89	4.2	1.7	0.4	37.1	0.01	0.07	2.3
DD020299		0.51	63.2	1170	19.4	9.6	0.001	0.03	1.82	5.1	2.3	0.5	58.2	0.01	0.12	3.0
DD020300		0.25	39.5	840	9.9	4.8	<0.001	0.02	1.17	3.3	1.4	0.3	64.4	0.01	0.07	1.1
DD020384		0.26	55.2	1350	12.4	6.6	0.001	0.13	1.15	1.4	5.0	0.3	60.5	0.01	0.08	0.6
DD020385		0.25	77.2	950	20.3	11.5	<0.001	0.02	2.23	5.9	2.6	0.4	32.7	0.01	0.16	2.4
DD020386		0.11	131.0	4620	14.7	14.2	0.007	0.34	3.01	5.6	13.8	0.5	161.5	0.01	0.15	3.3
DD020387		0.18	4.0	930	5.7	1.6	<0.001	0.01	0.28	0.8	0.5	<0.2	108.0	<0.01	0.02	0.4
DD020388		0.27	9.7	1350	9.4	3.0	<0.001	0.02	0.46	1.5	0.6	<0.2	108.0	<0.01	0.03	0.7
DD020389		0.24	11.9	470	6.8	3.7	<0.001	0.02	0.42	1.8	0.5	<0.2	96.2	<0.01	0.03	0.7
DD020390		0.28	24.6	700	9.3	4.5	<0.001	0.03	1.15	2.9	0.6	0.2	89.7	<0.01	0.04	1.0
DD020391		0.24	8.9	460	6.2	2.8	<0.001	0.02	0.81	1.2	0.4	<0.2	88.5	<0.01	0.03	0.5
DD020392		0.23	7.1	840	7.0	2.3	<0.001	0.03	1.10	0.8	0.5	<0.2	80.1	<0.01	0.02	0.4
DD020393		0.24	16.4	830	8.3	3.7	<0.001	0.04	1.37	1.6	0.5	0.2	80.7	<0.01	0.03	0.6
DD020394		0.14	3.8	660	5.5	0.6	<0.001	0.02	0.54	0.5	0.4	<0.2	169.0	<0.01	0.01	0.4
DD020395		0.23	12.7	1670	12.9	3.4	0.001	0.02	1.91	1.6	0.6	<0.2	153.0	<0.01	0.03	1.0
DD020396		0.27	23.3	1420	17.8	5.9	<0.001	0.10	1.34	2.6	0.6	0.3	93.1	<0.01	0.04	1.4
DD020397		0.27	20.5	810	8.0	5.0	<0.001	0.06	1.15	2.0	0.6	0.2	90.4	<0.01	0.04	0.6
DD020398		0.31	19.6	1070	10.5	5.2	<0.001	0.05	0.67	2.0	0.7	0.3	86.9	0.01	0.04	1.0
DD020399		0.33	24.6	670	9.4	4.4	<0.001	0.03	0.79	2.8	0.6	0.3	90.5	<0.01	0.03	1.1
DD020400		0.27	11.3	810	7.9	3.0	<0.001	0.05	0.81	0.8	0.6	<0.2	73.0	<0.01	0.03	0.5
DD020401		0.35	17.8	500	7.8	3.2	0.001	0.02	1.08	1.6	0.5	0.2	81.1	<0.01	0.03	1.0
DD020402		0.31	43.7	930	10.7	4.8	<0.001	0.02	1.16	4.6	0.6	0.3	95.2	<0.01	0.05	1.8
DD020403		0.31	23.4	600	8.8	4.1	0.001	0.02	0.91	3.0	0.5	0.2	105.0	<0.01	0.05	1.1
DD020404		0.25	71.7	790	11.0	6.9	<0.001	0.05	0.79	5.5	0.7	0.2	105.5	<0.01	0.05	1.5
DD020405		0.33	31.6	600	11.8	4.5	<0.001	0.03	0.78	2.8	0.6	0.3	78.2	<0.01	0.05	1.2
DD020406		0.31	55.4	720	10.8	3.7	<0.001	0.06	0.59	5.4	0.6	0.3	88.7	0.01	0.04	3.4
DD020407		0.31	33.9	390	9.9	2.8	0.001	0.02	0.85	5.0	0.5	0.3	99.2	<0.01	0.04	2.0
DD020408		0.23	28.5	170	4.3	2.7	0.001	0.03	0.67	4.1	0.5	0.2	101.0	<0.01	0.03	0.9
DD020409		0.38	16.4	580	7.5	2.7	<0.001	0.02	1.18	2.1	0.5	0.3	23.7	0.01	0.02	2.0
DD020410		0.23	15.3	540	6.1	2.5	0.001	0.03	1.11	2.0	0.5	0.2	99.2	<0.01	0.04	0.6
DD020411		0.21	12.5	1820	16.4	2.7	<0.001	0.04	2.82	1.3	0.6	<0.2	94.7	0.01	0.05	0.9
DD020412		0.26	21.7	1190	11.9	3.9	<0.001	0.08	1.72	1.5	0.8	0.2	55.1	0.01	0.04	0.4
DD020413		0.20	12.6	490	5.9	2.9	0.001	0.04	1.70	1.7	0.6	<0.2	85.5	<0.01	0.04	0.5

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020291		<0.005	0.56	0.83	6	<0.05	8.65	27	2.1
DD020292		0.007	0.13	1.29	9	<0.05	14.50	25	1.3
DD020293		<0.005	0.29	1.50	7	<0.05	12.10	28	1.9
DD020294		0.010	0.82	2.00	23	0.09	21.6	70	2.2
DD020295		0.010	0.49	2.39	52	0.11	25.9	108	1.5
DD020296		0.022	0.26	1.71	55	0.19	18.30	121	0.5
DD020297		0.011	0.12	2.08	34	0.21	42.8	138	1.7
DD020298		0.009	0.43	1.40	36	0.11	33.4	160	2.9
DD020299		0.018	0.48	1.27	49	0.15	47.6	181	3.7
DD020300		0.009	0.21	1.01	30	0.09	44.4	125	2.3
DD020384		0.008	0.13	1.47	29	0.11	39.8	185	2.0
DD020385		0.008	0.46	1.84	38	0.09	38.4	233	2.8
DD020386		<0.005	0.36	6.09	65	0.14	45.4	433	2.7
DD020387		<0.005	0.20	1.55	6	<0.05	13.55	15	1.2
DD020388		0.007	0.26	2.19	10	<0.05	18.05	41	2.1
DD020389		0.005	0.31	1.11	10	<0.05	11.10	31	1.8
DD020390		<0.005	0.69	1.25	16	<0.05	15.25	50	2.9
DD020391		0.005	0.34	1.15	9	<0.05	9.89	29	1.5
DD020392		0.005	0.21	1.27	9	<0.05	12.25	23	1.3
DD020393		0.005	0.51	1.15	12	0.07	12.40	33	2.1
DD020394		<0.005	0.20	1.91	4	<0.05	8.19	10	1.1
DD020395		<0.005	0.77	2.42	8	<0.05	15.00	12	2.9
DD020396		<0.005	0.97	2.00	16	0.06	18.10	27	3.4
DD020397		0.006	0.56	1.24	18	0.09	13.90	58	2.0
DD020398		0.005	0.57	1.59	22	0.07	16.50	59	2.7
DD020399		<0.005	0.64	1.43	16	0.07	14.75	40	2.5
DD020400		0.009	0.44	1.33	14	0.07	12.40	36	1.2
DD020401		0.012	0.45	1.16	19	0.34	9.94	37	1.4
DD020402		0.005	0.73	1.50	23	0.21	14.40	55	2.2
DD020403		0.006	0.68	1.36	17	0.05	11.95	47	2.3
DD020404		<0.005	0.88	1.39	18	<0.05	13.65	55	2.7
DD020405		0.006	0.88	1.37	19	0.10	12.05	48	2.2
DD020406		<0.005	1.30	1.37	14	0.07	14.70	73	1.9
DD020407		<0.005	1.27	1.32	16	0.08	10.35	40	1.9
DD020408		<0.005	1.77	0.66	11	0.05	6.03	29	1.3
DD020409		<0.005	1.03	0.52	7	0.09	12.50	25	2.1
DD020410		<0.005	0.87	1.14	13	0.06	12.20	31	2.1
DD020411		0.005	0.95	2.36	10	0.06	18.95	20	2.6
DD020412		0.010	0.51	1.05	29	0.13	18.75	57	0.8
DD020413		0.006	0.35	1.03	15	0.06	9.37	42	1.6





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 Account: RCM

Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020414		0.23	0.003	0.06	0.43	7	<0.2	<10	400	0.25	0.06	12.50	0.24	11.85	4.2	7
DD020415		0.14	0.002	0.08	0.44	8	<0.2	<10	210	0.29	0.08	12.95	0.29	16.70	8.0	12
DD020416		0.15	0.004	0.07	0.43	13	<0.2	<10	110	0.37	0.07	13.95	0.43	14.55	3.7	7
DD020417		0.15	0.002	0.12	0.79	12	<0.2	<10	230	0.55	0.12	13.05	0.96	18.00	6.6	17
DD020418		0.18	0.002	0.07	0.40	23	<0.2	<10	200	0.32	0.07	15.90	0.76	8.62	4.9	10
DD020419		0.14	0.006	4.63	0.73	40.7	<0.2	20	1210	0.66	0.21	2.45	1.38	18.65	5.9	78
DD020420		0.16	0.004	1.55	1.06	36.0	<0.2	10	1510	0.67	0.18	1.68	1.42	20.4	8.3	43
DD020421		0.15	0.003	0.24	1.31	8.2	<0.2	<10	4030	0.48	0.21	1.11	1.25	18.75	4.4	33
DD020422		0.15	0.004	1.20	1.31	10.7	<0.2	<10	1300	0.60	0.18	1.69	0.67	18.10	4.5	38
DD020423		0.18	0.002	0.72	1.18	10.3	<0.2	<10	3240	0.44	0.22	1.46	4.83	17.85	5.2	47
DD020424		0.10	0.002	0.12	1.59	10.7	<0.2	<10	730	0.35	0.25	0.90	2.44	20.5	6.1	37
DD020425		0.15	0.001	0.17	1.43	8.0	<0.2	<10	540	0.41	0.27	1.24	2.26	17.90	6.7	26
DD020426		0.12	0.006	1.01	1.18	11.7	<0.2	10	690	0.54	0.19	1.83	2.26	17.10	5.8	38
DD020427		0.15	0.007	4.15	1.16	19.8	<0.2	10	480	0.61	0.20	1.93	2.35	28.9	8.3	47
DD020428		0.13	0.006	1.80	0.99	21.7	<0.2	20	1650	0.72	0.22	3.47	1.65	20.5	4.5	120
DD020429		0.15	0.008	1.78	0.94	10.3	<0.2	10	1220	0.45	0.20	3.14	0.97	18.00	5.3	38
DD020430		0.12	0.004	1.24	1.07	16.1	<0.2	<10	1490	0.60	0.19	2.47	1.60	16.80	6.3	40
DD020431		0.16	0.003	0.31	0.60	15	<0.2	<10	230	0.37	0.11	13.30	1.27	16.55	4.9	18
DD020432		0.18	0.017	3.21	0.43	116.0	<0.2	10	210	0.57	0.41	1.94	3.88	28.1	10.7	27
DD020433		0.19	0.004	0.51	1.24	14.0	<0.2	<10	600	0.60	0.19	3.98	2.19	22.5	8.2	26
DD020434		0.28	0.004	2.37	1.05	22.0	<0.2	10	1440	0.68	0.18	2.32	1.65	17.20	6.8	51
DD020435		0.17	0.009	11.80	0.59	20.0	<0.2	10	1500	0.53	0.36	1.27	8.93	14.75	4.2	94
DD020436		0.24	0.005	0.56	1.16	15.9	<0.2	<10	500	0.46	0.21	0.30	0.56	25.1	7.1	29
DD020437		0.16	0.003	0.66	1.09	14.8	<0.2	10	760	0.75	0.18	0.68	1.05	28.9	4.7	37
DD020438		0.19	0.005	4.01	0.31	76.8	<0.2	10	160	0.19	0.38	0.10	0.52	3.89	1.3	142
DD020439		0.30	0.005	0.14	2.01	13.5	<0.2	<10	210	0.83	0.24	0.73	0.58	39.2	9.5	32
DD020440		0.16	0.002	0.14	2.13	12.8	<0.2	<10	220	0.76	0.24	1.44	1.19	45.6	10.0	36
DD020441		0.17	0.001	0.08	2.04	14.2	<0.2	<10	210	0.72	0.25	0.80	2.13	37.4	10.9	30
DD020442		0.17	0.002	0.12	1.98	14.3	<0.2	<10	270	0.55	0.28	0.38	0.68	29.5	7.3	30
DD020443		0.25	0.003	0.37	1.49	15.6	<0.2	<10	370	0.60	0.20	0.65	0.38	31.4	8.3	31
DD020444		0.31	0.006	0.48	1.88	58.3	<0.2	<10	360	0.67	0.26	1.57	2.16	37.2	14.9	45
DD020445		0.25	0.003	0.31	1.16	77.6	<0.2	<10	180	0.50	0.22	1.97	0.80	24.6	8.4	27
DD020446		0.19	0.003	0.30	0.89	173.0	<0.2	<10	160	0.70	0.25	4.55	0.65	22.6	13.8	30
DD020447		0.21	0.002	0.25	1.15	248	<0.2	10	220	0.86	0.25	2.71	1.01	19.15	14.5	31
DD020448		0.16	0.001	0.30	1.50	52.4	<0.2	<10	250	0.74	0.23	0.97	1.37	23.8	9.6	39
DD020449		0.16	0.002	0.61	1.96	23.6	<0.2	10	210	0.91	0.23	5.09	1.72	20.3	8.4	51
DD020450		0.15	0.003	1.47	1.68	22.3	<0.2	10	2020	0.82	0.20	1.62	1.01	18.10	5.1	71
DD022100		0.33	0.001	0.02	0.18	14	<0.2	<10	60	0.24	0.06	18.90	0.12	9.50	3.6	7
DD022101		0.25	0.002	0.05	0.40	15	<0.2	<10	90	0.29	0.14	15.25	0.22	14.50	6.9	9
DD022102		0.32	0.002	0.02	0.15	13	<0.2	<10	70	0.18	0.10	17.55	0.09	12.15	4.6	5



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD020414		0.25	7.1	0.80	1.17	<0.05	0.04	0.04	0.010	0.04	8.0	3.9	7.19	408	0.86	0.01
DD020415		0.35	8.6	1.11	1.21	0.05	0.06	0.10	0.015	0.03	11.9	2.9	7.68	823	0.73	0.02
DD020416		0.25	6.3	0.82	1.07	0.05	0.04	0.12	0.009	0.03	11.8	2.9	7.74	944	1.21	0.02
DD020417		0.52	9.2	1.33	1.83	0.05	0.04	0.10	0.019	0.04	14.0	5.4	5.68	690	2.05	0.01
DD020418		0.47	8.1	0.82	0.96	<0.05	0.05	6.23	0.011	0.04	5.6	3.0	9.10	217	2.79	0.02
DD020419		1.32	48.8	3.46	2.44	0.20	0.12	0.23	0.048	0.19	22.3	7.8	0.08	97	28.4	0.01
DD020420		0.41	33.2	2.52	2.77	0.12	0.09	0.20	0.030	0.07	18.3	9.2	0.21	223	5.11	0.01
DD020421		0.51	11.5	2.16	4.52	0.06	0.03	0.09	0.027	0.03	11.5	10.9	0.11	193	2.61	0.01
DD020422		0.70	19.7	1.98	3.36	0.08	0.05	0.08	0.029	0.05	15.7	7.5	0.14	288	3.86	0.01
DD020423		0.60	15.7	1.97	4.06	0.07	0.03	0.07	0.025	0.04	11.9	6.6	0.10	415	3.00	0.01
DD020424		0.76	8.1	2.48	5.73	0.07	0.03	0.06	0.030	0.03	13.6	12.0	0.22	313	1.63	<0.01
DD020425		0.82	9.5	2.26	5.04	0.06	0.03	0.08	0.030	0.04	11.2	9.2	0.20	976	1.57	0.01
DD020426		0.56	21.1	2.06	3.15	0.08	0.12	0.10	0.029	0.07	13.0	7.2	0.19	409	2.96	0.01
DD020427		0.59	46.0	2.71	3.27	0.15	0.10	0.38	0.034	0.10	22.7	9.6	0.29	209	6.26	0.01
DD020428		1.31	26.4	3.15	3.89	0.15	0.11	0.31	0.034	0.15	25.4	15.8	0.44	233	4.74	0.01
DD020429		0.39	22.6	1.84	2.68	0.08	0.07	0.15	0.027	0.08	15.1	7.2	0.41	293	2.10	0.01
DD020430		0.33	19.8	2.14	3.08	0.08	0.06	0.28	0.029	0.06	13.3	7.8	0.26	316	5.29	0.01
DD020431		0.59	11.5	1.35	1.61	0.06	0.07	0.45	0.018	0.07	14.4	4.8	6.19	208	4.31	0.02
DD020432		2.40	68.8	4.01	2.48	0.34	0.20	0.53	0.051	0.41	25.4	1.8	0.18	67	317	0.01
DD020433		0.58	20.2	2.27	3.30	0.07	0.06	0.18	0.027	0.06	14.4	9.7	1.57	333	3.01	0.01
DD020434		0.46	35.5	2.35	3.04	0.10	0.08	0.22	0.034	0.05	14.6	6.4	0.18	506	6.10	0.01
DD020435		0.51	100.5	2.04	2.21	0.18	0.09	0.38	0.044	0.12	14.0	5.2	0.06	124	23.3	0.01
DD020436		0.97	37.2	2.56	3.81	0.09	0.03	0.09	0.028	0.06	13.3	13.5	0.38	237	6.26	0.01
DD020437		0.98	24.0	2.32	2.44	0.14	0.10	0.10	0.040	0.08	23.6	8.6	0.09	133	11.00	0.01
DD020438		0.67	32.1	3.72	3.60	0.12	<0.02	0.24	0.066	0.38	2.4	3.3	0.02	16	68.8	0.01
DD020439		1.19	13.3	2.90	5.48	0.11	0.05	0.07	0.029	0.04	27.8	13.6	0.36	289	2.19	0.01
DD020440		1.19	11.8	2.88	5.67	0.13	0.07	0.08	0.028	0.06	32.8	13.8	0.36	418	2.12	0.01
DD020441		1.19	12.3	3.14	5.47	0.08	0.04	0.06	0.035	0.04	16.3	13.7	0.27	363	4.96	0.01
DD020442		1.86	10.0	2.88	7.04	0.06	0.03	0.06	0.035	0.04	14.0	14.5	0.33	200	2.54	0.01
DD020443		0.97	13.6	2.72	4.63	0.07	0.05	0.07	0.028	0.04	17.1	11.6	0.41	286	1.98	0.01
DD020444		1.82	29.7	3.15	6.63	0.12	0.10	0.58	0.047	0.07	29.8	13.8	0.46	445	11.95	0.01
DD020445		0.85	14.7	2.65	3.51	0.07	0.05	0.27	0.026	0.05	15.7	8.7	0.37	308	15.15	0.01
DD020446		1.45	17.0	2.19	3.12	0.07	0.10	0.43	0.033	0.12	14.0	6.2	0.21	288	28.3	0.01
DD020447		2.26	19.4	4.69	4.25	0.09	0.06	0.19	0.038	0.13	10.4	7.2	0.25	280	20.5	0.01
DD020448		0.49	14.9	2.80	4.76	0.07	0.07	0.07	0.033	0.06	13.1	9.1	0.58	370	6.92	<0.01
DD020449		0.73	20.9	2.53	5.44	0.06	0.09	0.07	0.033	0.07	12.3	13.1	3.13	365	3.24	0.01
DD020450		0.44	26.1	2.33	4.97	0.08	0.10	0.20	0.038	0.05	13.2	9.0	0.53	103	8.75	0.02
DD022100		0.56	5.7	0.68	0.49	<0.05	0.03	0.02	0.008	0.05	4.1	2.8	10.75	91	1.69	0.03
DD022101		1.00	12.5	1.38	1.10	<0.05	0.06	0.02	0.016	0.08	6.5	3.5	8.34	138	3.96	0.02
DD022102		1.39	6.5	1.07	0.44	<0.05	0.04	0.04	0.011	0.06	5.3	1.4	9.67	140	2.04	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD020414		0.25	8.6	1030	7.1	2.7	<0.001	0.07	0.94	0.8	0.5	<0.2	63.9	<0.01	0.03	0.4
DD020415		0.18	15.3	1370	9.9	2.8	<0.001	0.05	0.87	1.7	0.7	0.2	68.5	0.01	0.04	0.5
DD020416		0.19	7.8	1810	9.1	3.8	0.001	0.09	1.52	0.8	0.8	<0.2	80.4	0.01	0.04	0.3
DD020417		0.25	23.9	1460	10.5	5.1	0.001	0.08	2.81	1.1	0.9	0.2	70.8	0.01	0.05	0.4
DD020418		0.20	27.2	660	5.9	3.4	0.001	0.04	5.04	1.4	0.7	0.2	86.1	<0.01	0.04	0.5
DD020419		0.09	115.0	6040	13.8	13.4	0.014	0.26	3.06	5.6	12.4	0.4	192.0	0.01	0.20	1.8
DD020420		0.36	79.0	2290	10.8	5.9	0.002	0.13	1.44	3.0	5.4	0.3	59.5	0.01	0.12	0.9
DD020421		0.55	23.5	1430	12.6	3.2	0.001	0.10	0.80	1.1	2.2	0.5	37.1	0.01	0.07	0.2
DD020422		0.30	33.7	3040	8.5	7.0	0.001	0.17	0.94	1.4	3.6	0.4	55.8	0.01	0.08	0.4
DD020423		0.55	24.0	1410	12.0	5.8	<0.001	0.11	0.79	1.6	2.6	0.5	41.9	0.01	0.08	0.3
DD020424		1.02	15.6	960	14.2	4.3	0.001	0.06	0.61	2.4	1.1	0.6	26.6	0.01	0.05	0.7
DD020425		0.61	15.1	1550	15.3	6.9	<0.001	0.10	0.69	1.5	1.0	0.6	31.5	0.01	0.06	0.4
DD020426		0.44	36.9	2380	10.5	6.7	0.001	0.18	1.01	2.5	3.7	0.4	60.6	0.01	0.09	1.2
DD020427		0.46	85.9	3740	11.7	7.0	0.002	0.09	2.01	4.0	8.8	0.4	82.5	0.01	0.16	2.1
DD020428		0.35	41.7	3480	14.1	13.1	0.002	0.25	1.57	2.3	4.7	0.5	121.5	0.01	0.30	0.7
DD020429		0.44	28.9	2740	9.0	5.2	0.001	0.18	0.77	1.8	3.8	0.4	84.4	0.01	0.08	0.6
DD020430		0.46	37.2	2600	9.9	5.0	0.001	0.19	1.64	1.8	3.2	0.3	61.0	0.01	0.08	0.5
DD020431		0.29	26.7	2080	7.7	4.6	0.001	0.06	1.76	1.8	1.4	0.3	87.3	0.01	0.04	0.9
DD020432		0.12	366	3310	29.5	14.9	0.040	0.75	23.4	9.7	40.1	1.3	88.0	0.01	0.93	6.7
DD020433		0.59	31.9	1510	11.1	6.2	0.001	0.09	1.18	2.2	1.5	0.3	42.6	0.01	0.05	0.8
DD020434		0.31	72.4	2740	9.8	5.9	0.004	0.07	2.03	3.7	4.6	0.4	98.9	0.01	0.09	1.1
DD020435		0.10	85.9	2340	13.3	7.4	0.007	0.18	6.53	4.7	22.7	0.6	227	0.01	0.23	4.3
DD020436		0.58	37.6	1070	11.8	7.8	0.002	0.07	2.23	3.8	2.8	0.4	39.5	<0.01	0.06	3.0
DD020437		0.32	51.0	2620	8.4	11.8	0.005	0.16	1.72	3.1	4.9	0.3	81.2	0.01	0.12	1.2
DD020438		0.09	28.4	780	17.8	21.3	0.012	0.86	4.82	1.8	13.7	0.9	60.1	<0.01	0.40	0.5
DD020439		1.08	29.0	810	13.0	7.8	<0.001	0.03	0.87	4.5	1.1	0.5	20.7	0.01	0.05	2.7
DD020440		0.81	34.4	3080	14.0	8.1	0.001	0.06	0.80	3.8	1.3	0.5	34.3	0.01	0.06	1.4
DD020441		1.06	39.2	480	16.0	8.2	0.001	0.05	0.98	3.7	0.9	0.6	14.5	0.01	0.05	1.7
DD020442		1.37	31.5	320	16.8	11.5	<0.001	0.02	0.58	4.0	0.6	0.7	13.7	<0.01	0.04	2.0
DD020443		0.78	31.5	860	12.6	8.2	0.001	0.04	0.78	3.8	1.0	0.4	21.0	0.01	0.04	1.5
DD020444		0.99	105.5	3090	16.6	12.2	0.001	0.06	2.87	4.7	2.2	0.8	38.7	0.01	0.08	1.3
DD020445		0.59	44.7	1240	14.6	7.7	0.001	0.07	3.01	3.0	1.3	0.4	22.1	0.01	0.04	0.6
DD020446		0.44	74.0	2130	12.6	9.3	0.002	0.08	6.49	4.2	1.8	0.5	28.1	0.01	0.09	1.6
DD020447		0.67	223	530	16.5	11.1	<0.001	0.05	8.07	4.9	1.9	0.7	21.8	<0.01	0.05	1.9
DD020448		0.70	53.1	440	22.3	4.9	<0.001	0.04	1.96	5.5	1.7	0.5	14.2	<0.01	0.06	2.1
DD020449		0.74	48.8	800	22.2	8.3	0.001	0.07	1.63	4.3	2.0	0.6	36.8	0.01	0.06	1.3
DD020450		0.56	55.4	830	13.0	4.6	0.001	0.08	1.74	5.5	5.0	0.6	49.4	0.01	0.09	1.6
DD022100		0.17	9.8	160	5.1	2.8	0.001	0.04	0.54	1.4	0.4	<0.2	156.5	<0.01	0.02	1.1
DD022101		0.32	18.6	250	8.9	5.9	0.001	0.04	0.47	2.8	0.5	0.2	144.5	<0.01	0.02	1.2
DD022102		0.19	8.4	80	7.4	3.6	0.001	0.05	0.33	2.3	0.3	<0.2	136.0	<0.01	0.02	1.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020414		0.008	0.22	1.09	14	0.08	10.95	38	1.0
DD020415		0.005	0.35	1.24	19	0.07	20.2	30	1.4
DD020416		0.005	0.24	1.79	14	0.06	17.35	53	0.8
DD020417		0.008	0.20	1.52	34	0.15	20.6	125	0.9
DD020418		0.006	0.25	1.83	28	0.05	8.90	103	1.7
DD020419		<0.005	0.39	9.44	69	0.23	46.7	341	3.0
DD020420		0.010	0.24	2.64	52	0.15	46.9	246	1.4
DD020421		0.013	0.14	2.09	63	0.21	15.55	96	<0.5
DD020422		0.007	0.14	2.18	57	0.14	27.3	130	0.8
DD020423		0.015	0.16	1.74	74	0.16	17.20	193	<0.5
DD020424		0.023	0.19	1.49	80	0.30	15.40	241	<0.5
DD020425		0.018	0.17	1.41	58	0.14	13.45	263	0.5
DD020426		0.010	0.17	1.61	54	0.25	22.2	235	2.6
DD020427		0.016	0.27	4.63	61	0.27	48.5	286	1.9
DD020428		0.009	0.28	3.17	81	0.21	47.7	187	2.3
DD020429		0.010	0.14	3.31	44	0.17	30.5	143	1.4
DD020430		0.011	0.22	2.88	70	0.16	23.5	167	1.5
DD020431		0.010	0.22	3.62	35	0.13	22.3	107	1.6
DD020432		<0.005	9.83	14.60	540	0.41	57.1	469	15.1
DD020433		0.017	0.20	1.66	47	0.28	17.90	167	1.3
DD020434		0.007	0.28	3.10	72	0.24	38.0	212	1.7
DD020435		<0.005	1.46	4.62	122	0.24	40.2	320	3.1
DD020436		0.031	0.39	2.47	83	0.21	11.50	171	0.5
DD020437		0.006	0.77	5.17	64	0.13	46.0	191	1.7
DD020438		<0.005	3.50	2.33	197	0.14	3.65	136	<0.5
DD020439		0.028	0.19	2.93	63	0.28	31.0	79	0.9
DD020440		0.028	0.21	5.01	68	0.36	52.9	116	0.9
DD020441		0.029	0.25	1.42	69	0.26	11.45	134	0.8
DD020442		0.022	0.34	1.08	66	0.29	8.35	105	0.7
DD020443		0.019	0.16	2.13	54	0.30	18.90	88	1.1
DD020444		0.021	1.32	8.36	102	0.31	59.2	254	2.0
DD020445		0.014	0.34	2.45	56	0.20	24.0	117	0.9
DD020446		0.008	0.76	4.91	59	0.16	25.7	163	2.9
DD020447		0.007	0.86	2.20	57	0.13	16.25	701	1.9
DD020448		0.008	0.26	2.09	89	0.17	18.60	172	1.9
DD020449		0.010	0.28	1.69	101	0.16	18.50	216	2.6
DD020450		0.005	0.38	2.40	162	0.21	30.5	164	2.7
DD022100		<0.005	0.17	1.70	9	<0.05	3.58	21	1.1
DD022101		0.005	0.32	1.08	11	0.10	6.66	43	2.0
DD022102		<0.005	0.45	0.91	6	<0.05	6.08	22	1.7



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**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022103		0.24	0.002	0.02	0.23	14	<0.2	<10	100	0.24	0.17	15.60	0.13	12.70	5.7	7
DD022104		0.24	0.002	0.04	0.32	19	<0.2	<10	110	0.29	0.16	14.75	0.17	14.75	6.9	8
DD022105		0.20	0.002	0.07	0.39	20	<0.2	<10	60	0.28	0.15	14.10	0.20	14.00	7.2	9
DD022106		0.24	0.003	0.03	0.23	15	<0.2	<10	60	0.19	0.11	17.10	0.14	10.95	5.2	7
DD022107		0.22	0.002	0.04	0.32	17	<0.2	<10	130	0.24	0.13	14.80	0.17	11.10	6.1	7
DD022108		0.26	0.001	0.02	0.17	24	<0.2	<10	110	0.22	0.13	17.80	0.13	9.34	6.0	6
DD022109		0.22	0.002	0.03	0.30	21	<0.2	<10	70	0.27	0.13	15.95	0.17	11.35	5.7	7
DD022110		0.28	0.002	0.03	0.28	19	<0.2	<10	80	0.22	0.10	17.40	0.13	11.55	5.8	7
DD022111		0.28	0.001	0.02	0.22	12	<0.2	<10	410	0.21	0.10	18.00	0.11	11.05	4.9	6
DD022112		0.35	<0.001	0.06	0.64	11	<0.2	<10	110	0.42	0.16	13.95	0.28	19.85	7.2	12
DD022113		0.26	<0.001	0.04	0.47	14	<0.2	<10	80	0.30	0.13	14.25	0.19	16.00	6.0	9
DD022114		0.25	0.001	0.03	0.39	17	<0.2	<10	90	0.27	0.11	16.20	0.20	13.65	4.9	8
DD022115		0.26	0.001	0.02	0.24	13	<0.2	<10	160	0.20	0.08	18.40	0.13	9.47	3.5	6
DD022116		0.26	0.001	0.04	0.41	14	<0.2	<10	170	0.24	0.10	16.65	0.18	10.45	4.6	8
DD022117		0.27	<0.001	0.04	0.36	12	<0.2	<10	60	0.19	0.08	17.75	0.19	7.20	3.2	7
DD022118		0.25	<0.001	0.06	0.46	10	<0.2	<10	100	0.27	0.07	15.70	0.34	8.36	4.3	8
DD022119		0.25	0.002	0.03	0.30	16	<0.2	<10	90	0.18	0.10	17.60	0.18	9.03	4.3	7
DD022120		0.27	0.001	0.09	0.78	17	<0.2	<10	90	0.30	0.11	13.45	0.37	14.30	5.7	13
DD022121		0.25	0.001	0.07	0.68	20	<0.2	10	90	0.29	0.11	13.65	0.34	11.75	4.9	11
DD022122		0.26	<0.001	0.06	0.63	22	<0.2	<10	120	0.34	0.10	14.60	0.28	11.60	4.7	12
DD022123		0.21	0.005	0.08	0.82	12.4	<0.2	<10	100	0.40	0.11	9.48	0.44	19.30	7.0	15
DD022124		0.19	0.001	0.07	1.03	16	<0.2	<10	100	0.45	0.12	11.65	0.58	16.65	6.0	15
DD022125		0.21	0.001	0.10	1.04	16	<0.2	<10	200	0.46	0.13	10.40	0.48	20.0	7.3	16
DD022126		0.31	0.001	0.09	1.15	24	<0.2	10	130	0.54	0.16	10.15	0.46	17.90	6.8	17
DD022127		0.32	0.001	0.04	0.36	18	<0.2	<10	90	0.31	0.10	16.65	0.20	11.85	4.6	8
DD022128		0.30	0.002	0.03	0.33	14	<0.2	10	90	0.29	0.09	16.25	0.28	10.85	4.3	7
DD022129		0.20	0.002	0.03	0.28	15	<0.2	<10	80	0.25	0.09	17.25	0.13	11.05	3.9	6
DD022130		0.20	0.001	0.06	0.66	27	<0.2	10	160	0.36	0.13	14.70	0.46	12.45	5.6	11
DD022131		0.18	0.001	0.06	1.69	17.9	<0.2	<10	220	0.94	0.21	3.64	0.42	30.5	10.4	25
DD022132		0.20	0.001	0.08	1.38	18.4	<0.2	<10	150	0.63	0.19	6.13	0.64	26.4	9.2	23
DD022133		0.25	0.001	0.03	0.26	20	<0.2	<10	90	0.29	0.13	16.40	0.15	11.50	6.0	6
DD022134		0.28	0.002	0.03	0.21	15	<0.2	<10	60	0.22	0.10	18.50	0.15	11.00	5.2	6
DD022135		0.29	0.003	0.02	0.23	10	<0.2	<10	40	0.20	0.08	18.60	0.12	10.05	4.0	5
DD022136		0.20	0.003	0.04	0.40	15	<0.2	10	100	0.33	0.13	15.15	0.20	13.50	5.9	8
DD022137		0.20	0.002	0.07	0.72	20	<0.2	10	100	0.50	0.19	10.85	0.40	19.95	7.8	12
DD022138		0.16	0.003	0.07	0.68	22	<0.2	10	100	0.55	0.17	12.30	0.37	19.50	7.5	11
DD022139		0.19	0.002	0.10	0.96	17	<0.2	10	80	0.55	0.16	11.40	0.54	24.0	7.2	16
DD022140		0.21	0.001	0.05	0.40	22	<0.2	<10	80	0.38	0.14	15.85	0.23	14.30	6.5	9
DD022141		0.17	0.001	0.06	0.44	24	<0.2	<10	90	0.52	0.15	15.15	0.18	14.50	6.7	10
DD022142		0.21	0.003	0.10	1.29	12.6	<0.2	<10	110	0.76	0.16	9.16	0.50	26.2	9.3	20



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022103		1.04	8.6	1.40	0.68	<0.05	0.03	0.08	0.015	0.07	5.5	1.9	8.69	128	2.54	0.02
DD022104		0.99	12.8	1.73	0.97	<0.05	0.05	0.05	0.015	0.07	6.6	2.9	8.14	148	2.89	0.02
DD022105		1.14	15.9	1.43	1.13	<0.05	0.06	0.03	0.014	0.09	6.3	3.8	7.66	149	4.73	0.02
DD022106		1.21	12.7	1.25	0.66	<0.05	0.03	0.04	0.010	0.06	4.7	2.3	9.45	119	3.43	0.02
DD022107		1.02	12.5	1.25	0.91	<0.05	0.05	0.04	0.014	0.06	4.9	3.0	8.21	136	3.01	0.02
DD022108		0.91	7.6	1.36	0.56	<0.05	0.03	0.07	0.015	0.06	4.1	1.5	9.75	102	2.94	0.03
DD022109		1.05	9.5	1.25	0.90	<0.05	0.04	0.03	0.016	0.07	4.9	2.9	8.60	122	2.18	0.02
DD022110		1.67	8.4	1.14	0.81	<0.05	0.04	0.07	0.014	0.06	5.2	2.4	9.42	138	2.89	0.02
DD022111		0.94	6.8	1.00	0.67	<0.05	0.03	0.03	0.013	0.06	4.8	1.8	9.84	135	1.80	0.03
DD022112		0.86	9.5	1.62	1.69	<0.05	0.06	0.03	0.019	0.07	9.0	5.1	7.73	267	1.63	0.02
DD022113		0.98	10.5	1.31	1.28	<0.05	0.05	0.04	0.016	0.08	7.1	4.0	7.85	215	1.65	0.02
DD022114		0.68	7.9	1.12	1.01	<0.05	0.06	0.03	0.014	0.07	6.1	3.1	9.01	164	1.47	0.02
DD022115		0.52	5.3	0.80	0.65	<0.05	0.04	0.03	0.011	0.05	4.3	2.0	10.30	128	2.18	0.02
DD022116		0.92	8.1	0.98	1.11	<0.05	0.05	0.02	0.015	0.07	5.1	3.1	9.25	144	2.83	0.03
DD022117		0.44	5.3	0.72	0.90	<0.05	0.05	0.02	0.009	0.04	3.8	3.1	10.35	159	2.05	0.02
DD022118		0.45	8.3	0.89	1.28	<0.05	0.05	0.02	0.011	0.05	4.5	5.1	9.31	211	1.87	0.02
DD022119		0.84	7.1	1.03	0.80	<0.05	0.04	0.04	0.012	0.05	4.3	2.3	10.10	130	2.92	0.03
DD022120		0.51	10.2	1.34	1.96	<0.05	0.05	0.04	0.016	0.04	7.0	6.3	8.27	274	4.36	0.02
DD022121		0.40	9.9	1.11	1.59	<0.05	0.05	0.04	0.015	0.05	5.9	4.4	8.17	348	4.21	0.02
DD022122		0.51	8.5	1.18	1.63	<0.05	0.06	0.03	0.015	0.05	5.6	5.1	8.68	240	2.86	0.02
DD022123		0.59	11.7	1.65	2.20	0.05	0.05	0.04	0.020	0.05	9.7	7.6	5.48	358	2.15	0.02
DD022124		0.66	9.7	1.53	2.43	<0.05	0.05	0.03	0.019	0.06	7.9	6.9	7.04	342	1.69	0.02
DD022125		0.60	11.9	1.73	2.57	0.06	0.05	0.05	0.021	0.05	9.7	7.7	6.06	403	1.98	0.02
DD022126		0.68	12.1	1.80	3.02	0.05	0.06	0.03	0.021	0.07	8.7	8.6	6.14	321	1.66	0.02
DD022127		0.93	28.4	0.99	0.90	<0.05	0.06	0.04	0.015	0.06	5.8	2.4	9.19	169	1.91	0.02
DD022128		0.85	10.6	0.95	0.81	<0.05	0.05	0.04	0.015	0.05	5.3	1.8	8.79	172	1.77	0.02
DD022129		0.74	7.3	0.89	0.84	<0.05	0.04	0.04	0.013	0.04	5.2	1.8	9.46	128	1.45	0.02
DD022130		0.89	10.8	1.21	1.50	<0.05	0.05	0.06	0.018	0.06	6.3	3.7	8.17	330	1.79	0.02
DD022131		0.93	14.5	2.93	4.87	0.08	0.10	0.04	0.038	0.09	13.9	14.0	2.20	458	1.49	0.01
DD022132		0.87	12.4	2.44	3.96	0.06	0.06	0.05	0.032	0.07	11.7	11.4	3.61	400	1.39	0.02
DD022133		2.16	9.0	1.40	0.70	<0.05	0.04	0.03	0.015	0.07	5.3	1.6	8.79	137	2.33	0.02
DD022134		2.30	8.1	1.25	0.57	<0.05	0.03	0.03	0.012	0.05	5.1	1.5	9.98	126	1.95	0.02
DD022135		2.01	6.1	0.88	0.59	<0.05	0.03	0.02	0.011	0.06	4.8	1.5	9.99	119	1.34	0.03
DD022136		1.79	10.3	1.30	0.98	<0.05	0.05	0.02	0.016	0.07	6.5	2.5	8.16	174	1.89	0.02
DD022137		1.22	13.7	1.83	1.71	0.05	0.07	0.04	0.028	0.09	9.9	4.0	6.04	364	2.61	0.02
DD022138		1.21	13.4	1.65	1.59	0.06	0.08	0.02	0.021	0.08	9.7	4.1	6.97	350	2.17	0.02
DD022139		0.69	13.1	1.77	2.19	0.05	0.06	0.04	0.025	0.06	11.9	6.5	6.58	435	2.34	0.02
DD022140		1.53	11.0	1.37	1.05	<0.05	0.06	0.02	0.019	0.07	6.7	2.8	8.73	157	2.13	0.02
DD022141		1.59	11.6	1.44	1.21	<0.05	0.05	0.03	0.018	0.07	6.7	2.9	8.33	156	2.06	0.02
DD022142		0.91	13.5	2.22	3.36	0.07	0.06	0.05	0.029	0.05	15.9	8.5	5.48	895	1.72	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD022103		0.23	12.0	140	10.4	4.0	0.001	0.04	0.45	2.7	0.4	0.2	111.5	<0.01	0.02	1.8
DD022104		0.30	15.6	210	10.7	4.4	0.001	0.04	0.68	2.7	0.4	0.2	120.0	<0.01	0.03	1.5
DD022105		0.34	17.6	270	12.1	4.9	0.001	0.05	0.45	2.6	0.5	0.2	125.0	<0.01	0.02	1.3
DD022106		0.26	11.6	130	9.0	3.5	0.001	0.04	0.32	2.1	0.4	<0.2	139.5	<0.01	0.02	1.3
DD022107		0.30	13.7	240	9.3	4.1	<0.001	0.04	0.76	2.1	0.4	0.2	122.0	<0.01	0.02	1.0
DD022108		0.21	13.0	90	8.2	3.4	0.001	0.06	1.11	2.5	0.4	0.2	143.0	<0.01	0.02	1.4
DD022109		0.29	14.8	210	8.7	4.0	<0.001	0.05	1.40	2.8	0.4	0.2	123.0	<0.01	0.02	1.2
DD022110		0.30	13.4	180	6.6	4.2	<0.001	0.04	2.32	2.2	0.4	0.2	145.0	<0.01	0.02	1.2
DD022111		0.25	9.3	120	6.9	3.7	0.001	0.05	1.61	2.4	0.4	<0.2	136.0	<0.01	0.02	1.3
DD022112		0.42	14.1	360	9.6	5.7	<0.001	0.04	0.43	2.9	0.5	0.2	105.5	<0.01	0.02	1.1
DD022113		0.35	12.4	280	9.2	5.2	<0.001	0.05	0.64	2.4	0.4	0.2	106.5	<0.01	0.02	1.0
DD022114		0.30	10.7	240	7.6	4.5	<0.001	0.05	0.91	2.3	0.4	0.2	115.0	<0.01	0.02	1.1
DD022115		0.27	8.2	150	4.8	3.4	<0.001	0.04	1.02	1.9	0.4	<0.2	132.0	<0.01	0.02	0.8
DD022116		0.33	11.8	250	6.4	5.0	<0.001	0.05	0.94	2.1	0.4	0.2	130.5	<0.01	0.02	0.8
DD022117		0.31	9.0	280	5.0	3.3	0.001	0.04	1.61	1.5	0.3	<0.2	111.0	<0.01	0.02	0.6
DD022118		0.36	12.0	370	6.6	3.9	0.001	0.04	0.74	1.8	0.6	<0.2	96.3	<0.01	0.02	0.6
DD022119		0.31	12.4	200	7.0	3.5	<0.001	0.04	1.35	2.0	0.4	0.2	125.5	<0.01	0.02	0.9
DD022120		0.53	15.1	550	8.7	5.3	<0.001	0.05	1.45	1.9	0.5	0.2	81.3	<0.01	0.02	0.7
DD022121		0.44	12.4	680	8.0	5.1	<0.001	0.09	1.29	1.3	0.5	0.2	83.9	<0.01	0.02	0.4
DD022122		0.47	13.1	430	8.1	5.0	<0.001	0.04	1.48	1.8	0.5	0.2	118.5	<0.01	0.02	0.7
DD022123		0.61	16.9	660	11.5	6.0	<0.001	0.06	0.94	2.4	0.6	0.2	74.2	<0.01	0.02	0.9
DD022124		0.48	14.8	770	10.8	7.7	0.001	0.06	0.94	1.9	0.5	0.3	75.5	<0.01	0.02	0.6
DD022125		0.58	16.6	800	11.7	7.8	<0.001	0.06	0.89	2.3	0.6	0.3	76.2	<0.01	0.03	0.7
DD022126		0.61	17.7	750	12.4	8.3	0.001	0.06	0.89	2.3	0.6	0.3	72.6	<0.01	0.03	0.9
DD022127		0.20	9.6	260	7.6	4.1	0.001	0.05	0.66	1.9	0.6	0.2	116.5	<0.01	0.04	0.9
DD022128		0.17	8.0	340	5.8	3.7	0.001	0.07	0.58	1.6	0.6	0.2	110.0	<0.01	0.03	0.6
DD022129		0.17	6.4	210	5.4	3.4	<0.001	0.05	0.61	1.8	0.5	<0.2	120.5	<0.01	0.03	0.9
DD022130		0.23	12.5	610	8.7	5.7	0.001	0.09	0.79	1.4	0.7	0.3	94.0	<0.01	0.05	0.4
DD022131		0.58	20.6	450	20.9	10.4	<0.001	0.04	0.86	5.4	0.7	0.5	27.0	0.01	0.03	3.1
DD022132		0.72	18.7	540	15.6	11.9	<0.001	0.04	0.91	4.1	0.6	0.4	42.6	<0.01	0.04	2.1
DD022133		0.16	12.8	140	8.2	4.3	0.001	0.03	0.28	2.2	0.6	0.2	111.5	<0.01	0.03	1.7
DD022134		0.17	10.6	120	6.8	3.6	0.001	0.03	0.25	2.1	0.5	0.2	133.5	<0.01	0.03	1.8
DD022135		0.17	7.7	110	5.0	3.9	<0.001	0.03	0.19	1.9	0.4	<0.2	137.5	<0.01	0.03	1.5
DD022136		0.21	12.6	250	8.2	5.3	<0.001	0.05	0.32	2.2	0.5	0.2	108.0	<0.01	0.04	1.3
DD022137		0.27	17.4	620	12.2	6.8	<0.001	0.09	0.44	2.2	0.8	0.3	70.2	<0.01	0.05	0.9
DD022138		0.24	16.5	520	10.7	6.8	<0.001	0.06	0.39	2.4	0.8	0.3	78.3	<0.01	0.05	1.1
DD022139		0.37	17.9	780	9.8	6.3	<0.001	0.08	0.61	2.1	0.8	0.3	71.0	0.01	0.05	0.8
DD022140		0.22	14.0	270	10.5	4.9	<0.001	0.04	0.36	2.5	0.8	0.2	117.5	<0.01	0.04	1.4
DD022141		0.22	15.1	250	11.6	5.1	<0.001	0.04	0.36	2.8	0.7	0.2	111.5	<0.01	0.04	1.5
DD022142		0.43	20.7	1020	12.6	7.8	<0.001	0.07	0.79	2.6	0.8	0.4	50.2	0.01	0.04	0.8



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**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
DD022103		<0.005	0.76	0.95	9	<0.05	6.29	33	1.1
DD022104		0.005	0.78	0.94	11	0.06	6.74	39	1.5
DD022105		0.006	0.54	1.04	12	0.06	6.47	39	1.9
DD022106		<0.005	0.39	1.06	9	0.07	5.01	26	1.1
DD022107		0.005	0.73	0.94	11	0.07	5.55	36	1.5
DD022108		<0.005	0.90	0.77	7	<0.05	4.92	29	1.7
DD022109		<0.005	0.46	0.78	11	0.06	5.44	33	1.2
DD022110		0.005	0.57	0.93	10	0.05	5.49	30	1.3
DD022111		<0.005	0.33	0.77	8	<0.05	5.50	24	1.0
DD022112		0.008	0.27	0.72	18	0.08	9.37	50	1.4
DD022113		0.006	0.39	0.73	13	0.05	6.91	41	1.4
DD022114		0.005	0.50	0.67	12	<0.05	6.28	37	1.5
DD022115		<0.005	0.47	0.59	8	<0.05	4.57	23	1.3
DD022116		0.005	0.40	0.75	10	<0.05	5.88	36	1.8
DD022117		0.006	0.46	0.79	10	0.05	3.89	30	1.3
DD022118		0.008	0.23	0.82	14	0.06	6.00	50	1.6
DD022119		0.005	0.68	0.78	9	<0.05	4.77	30	1.2
DD022120		0.014	0.40	0.63	19	0.11	6.28	61	1.5
DD022121		0.010	0.50	0.71	16	0.08	5.45	67	1.4
DD022122		0.011	0.69	1.06	17	0.08	5.02	52	1.9
DD022123		0.015	0.27	0.95	25	0.16	9.27	62	1.6
DD022124		0.011	0.22	1.17	30	0.08	7.57	91	1.4
DD022125		0.012	0.26	1.00	28	0.17	9.60	63	1.6
DD022126		0.015	0.24	0.93	32	0.11	7.71	92	1.7
DD022127		0.006	0.46	0.89	11	0.05	5.55	39	1.6
DD022128		0.005	0.44	0.86	10	0.05	5.08	38	1.4
DD022129		<0.005	0.43	0.81	10	<0.05	5.01	31	1.2
DD022130		0.008	0.42	1.22	22	0.07	6.43	84	1.4
DD022131		0.009	0.38	0.80	43	0.16	10.70	82	2.6
DD022132		0.017	0.21	1.05	40	0.26	7.42	68	1.6
DD022133		<0.005	0.98	0.87	10	0.05	5.14	35	1.3
DD022134		0.005	0.67	0.93	10	0.07	4.68	31	1.4
DD022135		<0.005	0.38	0.70	8	<0.05	4.15	23	1.1
DD022136		0.006	0.60	0.73	12	0.05	5.70	40	1.4
DD022137		0.007	0.67	0.71	20	0.10	8.25	85	2.0
DD022138		0.007	0.59	0.68	19	0.08	8.47	68	2.2
DD022139		0.014	0.31	0.82	27	0.11	9.07	84	1.5
DD022140		0.006	0.76	1.05	14	0.07	6.34	46	1.6
DD022141		0.006	0.79	1.01	15	0.06	6.43	40	1.6
DD022142		0.017	0.28	1.26	38	0.27	17.15	87	1.4



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.02	0.1	1	
DD022143		0.21	0.001	0.04	0.28	7	<0.2	<10	40	0.30	0.04	17.65	0.22	9.87	2.9	5
DD022144		0.33	0.001	0.01	0.09	3	<0.2	<10	20	0.16	0.02	20.1	0.10	5.46	1.7	3
DD022145		0.37	0.001	0.01	0.11	5	<0.2	<10	30	0.20	0.03	17.95	0.33	6.37	2.5	2
DD022146		0.25	0.005	0.08	0.72	9.3	<0.2	10	160	0.62	0.13	6.49	0.45	16.25	5.7	9
DD022147		0.22	0.002	0.09	0.89	18.7	<0.2	10	210	0.64	0.17	3.22	0.71	20.1	9.7	14
DD022148		0.23	0.001	0.05	0.35	12	<0.2	<10	60	0.35	0.05	17.60	0.22	15.85	3.8	6
DD022149		0.20	0.002	0.05	0.49	14	<0.2	<10	90	0.47	0.08	15.15	0.23	16.45	5.4	8
DD022150		0.27	0.001	0.04	0.34	12	<0.2	<10	90	0.31	0.05	17.55	0.12	11.65	4.3	7
DD022151		0.23	0.002	0.03	0.25	40	<0.2	<10	210	0.54	0.09	14.30	0.26	10.10	13.5	15
DD022152		0.16	0.004	0.12	1.30	32.2	<0.2	<10	120	0.97	0.17	8.81	0.63	28.6	10.6	18
DD022153		0.30	0.001	0.04	0.38	10	<0.2	<10	60	0.42	0.05	17.75	0.40	11.95	3.3	5
DD022154		0.22	0.003	0.06	0.53	18	<0.2	<10	90	0.46	0.07	15.45	0.30	14.70	5.1	10
DD022155		0.26	0.001	0.03	0.22	20	<0.2	<10	90	0.27	0.03	17.10	0.29	7.54	5.4	6
DD022156		0.30	0.002	0.06	0.47	34	<0.2	<10	170	0.46	0.08	14.85	0.31	14.80	8.4	14
DD022157		0.20	0.002	0.10	0.71	26	<0.2	<10	260	0.55	0.10	13.45	0.43	23.3	8.2	15
DD022158		0.23	0.001	0.10	0.47	24	<0.2	<10	170	0.43	0.07	15.40	0.25	15.85	4.8	10
DD022159		0.29	0.001	0.03	0.26	10	<0.2	<10	80	0.30	0.04	19.60	0.22	5.44	2.3	6
DD022160		0.26	<0.001	0.03	0.28	9	<0.2	<10	60	0.31	0.05	18.05	0.27	6.32	2.4	6
DD022161		0.27	<0.001	0.04	0.29	12	<0.2	<10	70	0.37	0.05	17.70	0.22	7.44	3.6	8
DD022162		0.22	0.001	0.06	0.21	21	<0.2	<10	70	0.25	0.06	19.00	0.24	5.93	2.7	6
DD022163		0.23	0.006	0.04	0.20	11	<0.2	<10	60	0.27	0.04	17.95	0.26	6.02	1.9	6
DD022164		0.31	0.001	0.04	0.17	18	<0.2	<10	60	0.29	0.05	16.90	0.38	4.61	1.7	6
DD022165		0.34	0.001	0.03	0.24	10	<0.2	<10	60	0.33	0.06	16.30	0.25	5.97	1.9	6
DD022166		0.32	0.005	0.23	0.22	7	<0.2	10	210	0.31	0.05	12.50	3.25	5.32	2.1	5
DD022167		0.24	0.006	0.11	0.25	11	<0.2	10	70	0.28	0.04	13.90	4.14	5.27	1.7	5
DD022168		0.31	0.002	0.05	0.22	5	<0.2	10	50	0.27	0.04	11.90	0.33	4.33	1.3	5
DD022169		0.29	0.003	0.76	0.69	16.7	<0.2	10	160	0.48	0.12	6.62	1.06	13.00	4.9	16
DD022170		0.15	0.005	3.19	0.60	16.7	<0.2	10	820	0.62	0.13	4.05	1.02	11.65	3.4	29
DD022171		0.14	0.003	0.89	0.32	5.3	<0.2	10	390	0.22	0.05	4.39	0.60	4.08	1.6	9
DD022172		0.22	0.005	2.83	0.55	8.4	<0.2	20	640	0.47	0.11	3.44	0.53	9.07	2.5	28
DD022173		0.23	0.006	3.73	0.58	16.7	<0.2	10	870	0.51	0.14	2.99	1.04	10.95	4.4	35
DD022174		0.30	0.004	1.85	0.30	38.9	<0.2	10	270	0.58	0.15	0.56	0.46	6.10	2.9	16
DD022175		0.19	0.004	1.45	0.52	20.0	<0.2	10	400	0.46	0.12	5.67	1.26	12.45	5.0	21
DD022176		0.29	0.004	1.23	0.75	19.0	<0.2	10	350	0.64	0.13	3.04	0.73	13.60	4.5	25
DD022177		0.21	0.002	1.17	0.38	14.8	<0.2	10	360	0.42	0.09	7.02	1.69	8.29	2.6	18
DD025628		0.28	0.001	0.12	0.79	10	<0.2	<10	80	0.39	0.12	12.45	0.31	15.25	4.8	13
DD025629		0.27	0.003	0.11	0.82	8	<0.2	<10	90	0.47	0.13	11.20	0.33	16.45	5.1	13
DD025630		0.32	0.001	0.08	0.52	6	<0.2	<10	60	0.29	0.10	13.90	0.26	11.35	3.5	10
DD025631		0.23	0.002	0.10	0.73	12	<0.2	<10	110	0.40	0.12	11.05	0.35	16.25	5.2	13
DD025632		0.24	0.003	0.13	1.29	13.9	<0.2	<10	100	0.74	0.19	8.18	0.53	27.5	8.0	21





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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022143		0.25	5.4	0.53	0.62	<0.05	0.04	0.03	0.009	0.02	8.5	1.8	10.55	673	0.49	0.02
DD022144		0.22	4.2	0.21	0.30	<0.05	0.02	0.01	<0.005	0.01	5.1	1.1	12.25	421	0.43	0.02
DD022145		0.25	4.7	0.29	0.41	0.05	0.03	0.03	<0.005	0.02	5.6	1.1	10.80	497	0.45	0.02
DD022146		0.42	13.0	1.19	1.93	0.05	0.06	0.10	0.019	0.04	13.5	3.7	2.70	1620	1.47	0.02
DD022147		1.30	14.9	1.93	2.27	0.06	0.07	0.13	0.025	0.08	13.7	4.1	0.65	1360	2.43	0.02
DD022148		0.44	5.6	0.74	0.88	0.05	0.04	0.04	0.013	0.03	11.7	2.1	10.55	732	2.06	0.02
DD022149		0.44	7.6	1.18	1.12	<0.05	0.06	0.03	0.015	0.05	12.3	3.0	9.12	701	2.20	0.02
DD022150		1.26	6.4	0.85	0.83	<0.05	0.05	0.04	0.011	0.04	9.2	2.7	10.70	401	4.49	0.02
DD022151		1.45	11.5	3.58	0.74	0.07	0.09	0.13	0.036	0.08	5.0	1.1	7.89	136	10.05	0.02
DD022152		0.80	20.5	2.87	2.99	0.07	0.06	0.07	0.028	0.05	18.9	8.6	5.30	1950	4.90	0.02
DD022153		0.31	5.8	0.69	0.87	<0.05	0.04	0.03	0.010	0.03	9.3	2.2	10.75	749	1.00	0.02
DD022154		0.42	7.5	1.20	1.26	0.05	0.05	0.03	0.015	0.03	11.4	3.9	9.30	495	1.41	0.02
DD022155		0.28	5.1	1.11	0.61	<0.05	0.04	0.04	0.006	0.02	5.4	2.0	10.20	425	2.12	0.01
DD022156		0.53	11.2	1.96	1.23	0.05	0.06	0.12	0.019	0.05	8.8	3.6	8.59	475	3.52	0.02
DD022157		0.43	12.5	2.22	1.82	0.07	0.08	0.14	0.021	0.06	16.4	4.9	7.74	923	4.81	0.02
DD022158		0.33	8.1	1.60	1.28	0.05	0.05	0.66	0.011	0.03	11.0	4.3	8.97	564	4.21	0.02
DD022159		0.32	4.0	0.44	0.56	<0.05	0.04	0.19	0.006	0.02	3.2	2.8	11.65	161	0.77	0.03
DD022160		0.30	6.6	0.45	0.63	<0.05	0.04	0.03	0.006	0.02	3.0	3.0	10.65	97	0.58	0.02
DD022161		0.32	7.3	1.00	0.70	<0.05	0.04	0.10	0.008	0.02	3.7	3.1	10.35	96	1.09	0.02
DD022162		0.25	7.0	0.50	0.47	<0.05	0.05	0.13	0.005	0.02	2.8	2.3	11.25	81	25.9	0.02
DD022163		0.24	6.7	0.49	0.51	<0.05	0.03	0.17	0.005	0.02	2.7	2.2	10.35	83	1.69	0.02
DD022164		0.24	6.6	0.57	0.40	<0.05	0.04	0.44	<0.005	0.02	2.1	1.9	10.20	65	1.02	0.02
DD022165		0.26	6.1	0.52	0.48	<0.05	0.03	0.06	0.006	0.03	3.3	1.9	9.69	281	1.09	0.02
DD022166		0.37	9.7	0.45	0.58	<0.05	0.03	0.15	0.008	0.03	3.4	1.4	6.20	251	2.60	0.02
DD022167		0.22	7.7	0.45	0.51	<0.05	0.03	4.89	0.006	0.03	2.9	1.6	7.41	247	1.50	0.01
DD022168		0.24	4.6	0.37	0.43	<0.05	0.04	0.35	0.007	0.03	2.3	1.4	6.50	164	1.29	0.04
DD022169		0.52	15.0	1.50	1.81	<0.05	0.04	0.95	0.017	0.09	6.7	6.7	3.84	249	4.06	0.02
DD022170		0.91	50.2	1.47	1.40	0.06	0.06	0.23	0.024	0.07	7.5	3.4	0.82	58	3.35	0.01
DD022171		0.54	16.1	0.57	0.77	<0.05	0.04	0.17	0.008	0.04	2.4	2.1	0.40	98	1.36	0.01
DD022172		0.72	36.2	1.18	1.46	<0.05	0.08	0.24	0.022	0.06	6.2	3.3	0.45	53	1.73	0.01
DD022173		1.00	58.7	2.00	1.53	0.06	0.06	0.25	0.029	0.11	7.8	3.7	0.45	72	4.63	0.01
DD022174		4.24	44.8	1.73	1.09	<0.05	0.03	0.15	0.027	0.12	3.4	1.3	0.08	48	3.27	<0.01
DD022175		0.99	32.1	1.65	1.53	0.06	0.06	2.71	0.019	0.09	7.7	4.6	2.75	184	4.04	0.01
DD022176		0.72	25.4	1.73	2.10	<0.05	0.05	9.08	0.018	0.06	9.2	6.0	0.97	159	2.86	0.01
DD022177		0.59	21.8	1.15	1.06	<0.05	0.06	3.29	0.014	0.06	6.0	2.9	3.47	104	3.21	0.01
DD025628		0.73	11.8	1.31	1.80	<0.05	0.05	0.06	0.016	0.05	7.6	5.4	7.25	279	2.93	0.01
DD025629		0.70	13.0	1.32	1.86	<0.05	0.04	0.06	0.015	0.05	8.1	6.0	6.45	312	2.96	0.01
DD025630		0.66	9.9	0.98	1.19	<0.05	0.03	0.06	0.013	0.04	5.5	4.0	7.78	207	2.38	0.01
DD025631		0.73	12.8	1.37	1.84	<0.05	0.03	0.07	0.014	0.05	8.1	6.4	6.18	254	2.35	0.02
DD025632		0.92	13.4	2.12	2.97	0.05	0.04	0.08	0.024	0.05	13.9	9.0	4.76	509	4.04	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD022143		0.17	5.4	840	6.1	2.2	0.001	0.06	0.38	0.8	0.7	<0.2	73.3	<0.01	0.03	0.2
DD022144		0.12	2.9	450	4.7	0.9	<0.001	0.02	0.19	0.7	0.4	<0.2	87.4	<0.01	0.02	0.3
DD022145		0.11	4.2	820	6.3	1.7	<0.001	0.04	0.23	0.7	0.6	<0.2	79.8	<0.01	0.02	0.3
DD022146		0.31	12.3	1970	12.9	3.5	<0.001	0.26	0.58	0.8	1.5	0.2	35.5	0.01	0.06	0.2
DD022147		0.38	21.3	2430	17.1	6.0	0.001	0.23	0.59	1.3	1.3	0.3	29.8	0.01	0.06	0.3
DD022148		0.17	8.0	1070	7.9	3.2	<0.001	0.07	0.34	1.0	0.8	<0.2	82.9	<0.01	0.03	0.3
DD022149		0.19	13.5	1270	13.3	4.0	<0.001	0.08	0.61	1.2	0.7	0.2	75.4	0.01	0.04	0.4
DD022150		0.19	11.7	660	7.9	3.4	<0.001	0.05	0.37	1.3	0.7	<0.2	84.0	<0.01	0.03	0.4
DD022151		0.15	43.6	520	13.2	3.5	0.001	0.08	0.53	5.0	0.6	0.3	115.0	<0.01	0.05	2.8
DD022152		0.34	25.2	1280	19.1	8.6	0.001	0.13	1.26	1.8	1.3	0.4	52.7	0.01	0.08	0.5
DD022153		0.15	6.7	910	6.3	2.9	0.001	0.06	0.33	0.8	0.7	<0.2	88.3	<0.01	0.03	0.3
DD022154		0.22	10.9	950	9.0	3.4	0.001	0.05	0.47	1.4	0.6	0.2	91.5	0.01	0.04	0.4
DD022155		0.19	9.0	460	7.7	1.8	0.001	0.02	0.69	1.1	0.5	<0.2	104.0	<0.01	0.03	0.5
DD022156		0.23	22.7	720	12.5	3.0	0.001	0.04	1.17	2.4	0.7	0.2	119.0	<0.01	0.04	0.8
DD022157		0.22	21.3	1840	18.5	4.3	<0.001	0.07	0.96	1.9	1.0	0.2	111.0	0.01	0.04	0.7
DD022158		0.22	12.0	1290	13.0	2.9	0.001	0.05	0.73	1.3	1.0	0.2	115.0	0.01	0.04	0.7
DD022159		0.15	5.9	400	4.1	2.1	0.001	0.03	0.32	0.8	0.6	<0.2	124.5	<0.01	0.02	0.4
DD022160		0.19	6.6	360	5.4	2.2	0.001	0.03	0.52	0.9	0.5	<0.2	128.0	<0.01	0.03	0.4
DD022161		0.20	9.5	360	6.6	2.1	0.001	0.03	0.81	1.2	0.6	<0.2	123.5	<0.01	0.03	0.7
DD022162		0.15	14.9	220	12.1	1.9	0.001	0.03	0.96	1.0	0.8	0.2	132.0	<0.01	0.03	0.5
DD022163		0.20	9.3	270	7.9	1.5	0.003	0.03	0.91	0.7	1.0	<0.2	118.5	<0.01	<0.01	0.4
DD022164		0.17	10.3	200	11.9	1.2	0.002	0.02	1.42	0.6	0.5	<0.2	118.0	<0.01	0.03	0.4
DD022165		0.16	6.9	520	7.4	1.9	<0.001	0.05	0.80	0.6	0.5	<0.2	103.0	<0.01	0.01	0.3
DD022166		0.16	15.6	1160	5.1	2.2	0.001	0.12	1.13	0.3	0.5	<0.2	82.9	<0.01	0.03	0.2
DD022167		0.15	9.3	1140	6.7	2.1	0.002	0.13	0.95	0.3	0.7	<0.2	85.4	<0.01	0.03	0.2
DD022168		0.15	5.8	790	5.0	2.4	0.001	0.11	0.80	0.4	0.4	<0.2	69.2	<0.01	0.01	0.3
DD022169		0.40	24.0	1320	10.9	4.8	0.002	0.10	1.54	1.3	1.5	0.3	63.1	<0.01	0.05	0.6
DD022170		0.23	64.4	2200	8.8	5.5	0.010	0.11	1.54	2.3	5.6	0.3	126.5	<0.01	0.10	0.7
DD022171		0.22	16.8	1140	3.8	3.1	0.006	0.22	0.79	0.5	2.3	0.2	93.1	<0.01	0.03	0.2
DD022172		0.21	43.5	1160	7.0	5.5	0.005	0.13	0.98	1.8	4.2	0.3	117.5	<0.01	0.07	0.7
DD022173		0.23	72.3	2270	9.9	7.4	0.006	0.20	1.45	3.1	6.9	0.4	136.0	<0.01	0.11	1.0
DD022174		0.12	35.4	1250	10.3	9.9	0.007	0.09	1.22	3.8	3.8	0.3	84.7	<0.01	0.12	1.8
DD022175		0.35	42.9	1680	8.7	6.7	0.004	0.13	1.42	2.3	3.3	0.3	84.4	<0.01	0.10	0.8
DD022176		0.42	33.5	1480	9.8	6.4	0.001	0.10	1.24	2.0	2.8	0.3	56.1	<0.01	0.07	0.5
DD022177		0.23	28.8	1590	6.6	4.9	0.004	0.13	1.13	1.5	3.0	0.2	86.4	<0.01	0.03	0.6
DD025628		0.37	16.1	580	7.0	5.5	0.001	0.05	0.62	1.6	0.4	0.2	75.3	<0.01	0.03	0.7
DD025629		0.38	16.3	620	7.8	5.4	0.003	0.06	0.69	1.5	0.3	0.3	75.4	<0.01	0.02	0.6
DD025630		0.30	12.4	430	5.6	3.7	<0.001	0.05	0.54	1.3	0.5	0.2	89.0	<0.01	0.02	0.5
DD025631		0.42	17.5	570	7.3	4.8	0.001	0.06	0.69	1.6	0.8	0.3	77.7	<0.01	0.02	0.6
DD025632		0.59	22.9	740	12.6	7.6	0.001	0.07	1.48	2.6	0.7	0.4	53.9	<0.01	0.02	1.0



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022143		0.007	0.20	1.22	9	<0.05	13.15	42	1.2
DD022144		<0.005	0.13	0.93	4	<0.05	7.97	13	0.6
DD022145		<0.005	0.22	1.11	4	<0.05	9.29	50	1.1
DD022146		0.009	0.29	1.40	18	0.07	19.95	74	1.4
DD022147		0.009	0.75	3.65	25	0.08	19.35	204	1.8
DD022148		0.006	0.22	1.53	12	0.06	16.85	37	1.1
DD022149		0.006	0.42	1.46	15	0.06	18.85	50	1.5
DD022150		0.006	0.64	1.17	10	0.07	11.60	25	1.5
DD022151		<0.005	1.05	2.40	9	<0.05	9.27	49	6.3
DD022152		0.016	1.30	1.25	35	0.14	28.8	157	1.4
DD022153		0.006	0.28	0.92	10	0.06	13.60	69	1.2
DD022154		0.009	0.30	1.12	17	0.07	14.90	55	1.3
DD022155		0.006	0.46	0.97	10	0.05	7.62	39	1.3
DD022156		0.007	1.18	1.09	20	0.20	11.35	55	1.7
DD022157		0.009	0.75	1.86	25	0.11	22.5	74	1.9
DD022158		0.009	0.65	1.82	18	0.18	13.85	35	1.4
DD022159		0.006	0.23	1.60	10	<0.05	3.20	33	1.2
DD022160		0.007	0.12	1.54	14	<0.05	2.20	47	1.4
DD022161		0.008	0.26	1.59	14	0.05	2.44	40	1.4
DD022162		0.005	0.68	1.79	13	0.16	2.08	40	1.6
DD022163		0.007	0.15	1.29	12	0.05	1.89	37	0.9
DD022164		0.005	0.14	1.25	11	0.05	1.55	59	1.1
DD022165		0.006	0.19	1.36	10	<0.05	3.95	40	1.1
DD022166		<0.005	0.42	1.65	15	<0.05	5.12	44	0.8
DD022167		<0.005	0.18	1.19	11	<0.05	3.55	87	0.8
DD022168		0.005	0.13	1.04	8	<0.05	2.48	58	1.4
DD022169		0.013	0.31	1.02	36	0.10	7.59	117	1.3
DD022170		<0.005	0.23	3.38	45	0.06	22.7	190	2.0
DD022171		<0.005	0.12	1.49	14	<0.05	5.12	77	1.2
DD022172		<0.005	0.12	1.96	38	0.07	18.20	87	2.2
DD022173		<0.005	0.20	4.58	44	0.10	26.0	205	2.1
DD022174		<0.005	0.63	1.93	31	<0.05	13.20	121	1.8
DD022175		0.009	0.45	2.31	35	0.09	18.25	148	2.0
DD022176		0.009	0.31	2.44	44	0.12	17.35	108	1.6
DD022177		<0.005	0.31	2.03	30	0.06	14.05	146	2.0
DD025628		0.015	0.35	0.65	24	0.08	5.76	62	1.2
DD025629		0.015	0.34	0.72	24	0.11	5.98	69	1.1
DD025630		0.011	0.33	0.68	16	0.09	4.44	42	1.0
DD025631		0.016	0.50	0.76	22	0.13	6.08	55	0.8
DD025632		0.019	0.35	0.82	38	0.16	11.05	94	1.2



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 Account: RCM

Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD025633		0.34	0.002	0.10	0.68	11	<0.2	<10	70	0.39	0.12	13.05	0.29	12.85	4.3	12
DD025634		0.24	0.001	0.15	0.83	12	<0.2	<10	110	0.59	0.15	11.10	0.31	17.00	5.9	14
DD025635		0.30	0.002	0.22	1.55	15.7	<0.2	<10	190	0.74	0.27	1.56	0.38	37.4	11.4	30
DD025636		0.26	0.002	0.13	0.95	11	<0.2	<10	90	0.50	0.15	10.45	0.39	19.70	5.9	16
DD025637		0.26	0.001	0.09	1.52	12.3	<0.2	<10	160	0.69	0.28	2.77	1.14	29.4	8.6	24
DD025638		0.38	0.002	0.23	1.33	14.0	<0.2	<10	160	0.63	0.21	4.63	0.54	25.5	10.0	24
DD025639		0.24	0.002	0.17	1.18	12.0	<0.2	<10	140	0.60	0.18	4.81	0.51	26.0	8.5	21
DD025640		0.36	0.003	0.17	1.04	11.6	<0.2	<10	140	0.50	0.15	5.64	0.34	25.8	8.1	19
DD025641		0.32	0.003	0.12	0.74	16	<0.2	<10	150	0.50	0.13	10.65	0.41	18.60	6.3	14
DD025642		0.36	0.004	0.08	0.59	9	<0.2	<10	140	0.37	0.11	11.90	0.29	15.00	5.7	11
DD025643		0.32	0.002	0.16	1.15	19.9	<0.2	<10	180	0.58	0.18	5.31	0.53	25.9	9.5	20
DD025644		0.28	0.003	0.19	1.06	20.8	<0.2	<10	140	0.60	0.19	5.11	0.61	25.0	9.8	19
DD025645		0.39	0.002	0.15	0.69	26	<0.2	<10	270	0.46	0.12	10.20	0.60	19.35	8.0	14
DD025646		0.25	0.001	0.08	0.63	19	<0.2	10	400	0.51	0.12	12.40	0.46	15.70	5.6	14
DD025647		0.33	0.001	0.07	0.54	17	<0.2	<10	400	0.43	0.10	13.85	0.38	13.75	5.1	12
DD025648		0.28	0.002	0.12	0.72	19	<0.2	<10	240	0.53	0.14	10.85	0.30	18.30	6.7	16
DD025649		0.36	<0.001	0.08	0.20	36	<0.2	<10	70	0.26	0.11	16.05	0.23	14.20	6.6	6
DD025650		0.37	0.002	0.10	0.37	24	<0.2	<10	80	0.28	0.10	13.85	0.28	15.50	6.7	8
DD025651		0.29	0.004	0.10	0.43	28	<0.2	<10	90	0.35	0.11	13.50	0.35	15.90	6.7	9
DD025652		0.27	0.004	0.12	1.05	16.7	<0.2	<10	170	0.60	0.17	4.51	0.47	25.4	9.0	18
DD025653		0.29	0.001	0.14	1.02	15.7	<0.2	<10	140	0.56	0.14	5.12	0.31	26.2	9.1	18
DD025654		0.24	0.003	0.11	0.88	16.5	<0.2	<10	120	0.58	0.15	7.75	0.47	24.6	8.9	15
DD025655		0.26	0.002	0.11	0.71	18.4	<0.2	<10	120	0.49	0.13	9.01	0.41	20.3	7.7	13
DD025656		0.30	<0.001	0.06	0.58	27	<0.2	<10	80	0.40	0.14	11.50	0.24	18.90	6.7	11
DD025657		0.30	0.001	0.10	1.53	27.7	<0.2	<10	210	1.04	0.29	1.03	0.42	32.9	12.6	25
DD025658		0.29	<0.001	0.10	1.77	20.4	<0.2	<10	170	1.03	0.27	0.68	0.72	40.9	11.5	29
DD025659		0.31	0.005	0.13	0.90	13.7	<0.2	<10	120	0.51	0.12	7.62	0.26	24.7	7.5	16
DD025660		0.36	0.001	0.03	0.30	18	<0.2	<10	90	0.24	0.09	16.05	0.15	6.94	2.8	5
DD025661		0.35	0.002	0.03	0.25	19	<0.2	<10	70	0.22	0.09	16.70	0.15	6.74	3.3	5
DD025662		0.31	0.001	0.03	0.20	31	<0.2	<10	130	0.21	0.04	13.45	0.14	11.45	12.3	15
DD025663		0.31	0.003	0.13	0.89	14.6	<0.2	<10	110	0.43	0.13	7.66	0.36	22.0	7.4	16
DD025664		0.29	0.001	0.08	0.59	34.1	<0.2	<10	120	0.47	0.12	9.76	0.21	24.5	14.7	16
DD025665		0.28	0.002	0.21	1.60	19.2	<0.2	<10	170	0.88	0.20	2.48	0.73	30.7	11.2	26
DD025666		0.39	0.002	0.02	0.17	22	<0.2	<10	150	0.33	0.04	13.30	0.10	27.4	7.6	13
DD025667		0.33	0.001	0.08	0.63	13	<0.2	<10	100	0.41	0.10	10.45	0.54	19.35	6.0	12
DD025668		0.28	0.002	0.16	1.02	10.9	<0.2	<10	120	0.51	0.14	6.05	0.38	24.8	8.1	18
DD025669		0.26	0.002	0.12	1.70	16.6	<0.2	<10	170	0.86	0.23	2.63	1.10	33.6	10.6	26
DD025670		0.31	0.001	0.06	0.57	10	<0.2	<10	80	0.33	0.07	13.95	0.44	12.25	3.9	9
DD025671		0.36	0.001	0.05	0.48	17	<0.2	<10	230	0.30	0.07	14.15	0.42	11.35	3.5	9
DD025672		0.33	0.001	0.08	0.92	18	<0.2	<10	180	0.51	0.12	10.75	0.48	19.35	6.2	15





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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025633		0.65	10.4	1.20	1.54	<0.05	0.04	0.06	0.016	0.04	6.6	4.9	7.63	251	2.68	0.01
DD025634		0.70	14.0	1.47	2.09	<0.05	0.04	0.05	0.017	0.06	8.7	6.6	6.47	326	3.33	0.01
DD025635		1.01	15.7	3.03	4.38	0.05	0.05	0.07	0.030	0.07	17.2	14.3	1.19	544	3.04	0.01
DD025636		0.76	10.5	1.64	2.26	<0.05	0.03	0.06	0.015	0.04	9.2	7.2	6.21	354	2.86	0.01
DD025637		1.14	11.8	2.76	4.09	<0.05	0.03	0.06	0.027	0.06	11.6	10.3	1.54	521	2.85	0.01
DD025638		0.99	17.4	2.52	3.62	<0.05	0.04	0.08	0.028	0.07	12.5	12.4	2.77	425	2.26	0.01
DD025639		0.88	14.9	2.29	3.08	<0.05	0.04	0.06	0.022	0.06	11.7	10.3	2.77	430	2.06	0.01
DD025640		0.73	15.5	2.09	2.80	0.05	0.04	0.06	0.020	0.06	12.1	10.0	3.41	363	2.17	0.01
DD025641		0.81	15.2	1.55	1.96	<0.05	0.03	0.05	0.013	0.07	8.3	6.4	5.93	255	2.45	0.02
DD025642		0.82	12.9	1.40	1.52	<0.05	0.04	0.03	0.012	0.06	7.1	5.0	6.38	166	6.21	0.02
DD025643		0.94	18.1	2.28	2.96	<0.05	0.04	0.10	0.021	0.07	11.4	9.9	3.08	390	8.90	0.02
DD025644		0.87	21.0	2.28	2.80	<0.05	0.05	0.06	0.023	0.07	11.3	9.8	2.97	331	10.70	0.02
DD025645		0.77	20.7	1.74	1.89	<0.05	0.05	0.05	0.017	0.06	8.9	6.4	5.51	241	14.80	0.02
DD025646		0.69	14.1	1.43	1.59	<0.05	0.05	0.05	0.016	0.07	7.1	4.4	6.85	197	2.02	0.02
DD025647		0.72	11.2	1.22	1.28	<0.05	0.05	0.04	0.014	0.07	6.1	4.2	7.63	159	1.77	0.02
DD025648		1.24	15.7	1.79	1.87	<0.05	0.04	0.07	0.018	0.07	8.6	5.7	5.24	186	1.93	0.02
DD025649		1.81	20.1	1.32	0.52	<0.05	0.04	0.06	0.014	0.06	6.3	2.1	8.89	129	19.55	0.03
DD025650		1.16	17.4	1.20	1.03	<0.05	0.04	0.05	0.013	0.06	7.2	4.7	7.65	171	11.55	0.03
DD025651		0.80	17.8	1.35	1.11	<0.05	0.06	0.02	0.015	0.07	7.3	4.0	7.43	164	13.70	0.03
DD025652		0.74	15.2	2.17	2.83	<0.05	0.04	0.03	0.023	0.07	12.2	12.3	2.55	382	5.21	0.02
DD025653		0.87	15.4	2.14	2.82	0.05	0.05	0.04	0.022	0.05	12.6	12.4	2.91	356	4.76	0.02
DD025654		0.77	15.5	1.93	2.33	<0.05	0.06	0.03	0.022	0.07	11.4	9.6	4.29	359	5.83	0.02
DD025655		0.92	16.6	1.68	1.88	<0.05	0.07	0.02	0.019	0.06	9.6	7.6	5.03	227	7.73	0.02
DD025656		1.40	9.9	1.51	1.46	<0.05	0.05	0.01	0.019	0.08	8.9	5.3	6.28	209	4.46	0.03
DD025657		1.19	14.4	3.06	4.39	0.06	0.07	0.04	0.041	0.09	15.3	14.1	0.59	707	4.47	0.01
DD025658		1.29	16.2	3.22	4.87	0.06	0.05	0.05	0.036	0.08	18.8	15.7	0.55	581	3.16	0.01
DD025659		0.73	13.3	1.90	2.46	<0.05	0.04	0.04	0.019	0.05	12.4	11.8	2.85	255	2.59	0.02
DD025660		0.37	5.5	0.57	0.63	<0.05	0.05	0.05	0.010	0.03	3.6	3.4	9.29	142	3.96	0.03
DD025661		0.34	6.4	0.58	0.50	<0.05	0.06	0.04	0.008	0.03	3.4	2.3	9.70	145	7.08	0.03
DD025662		0.50	11.2	2.44	0.64	<0.05	0.03	0.39	0.021	0.08	4.8	1.0	7.91	162	2.38	0.02
DD025663		0.75	13.4	1.80	2.53	<0.05	0.05	0.04	0.018	0.06	10.9	9.4	4.42	285	3.13	0.02
DD025664		0.44	17.4	4.10	2.02	0.06	0.06	1.08	0.042	0.08	9.5	4.3	5.11	285	4.84	0.02
DD025665		0.95	15.8	2.72	4.37	0.05	0.09	0.07	0.030	0.08	16.0	16.6	1.57	526	2.65	0.02
DD025666		2.08	10.4	2.87	0.42	0.05	0.06	0.30	0.029	0.06	10.1	0.8	7.45	144	2.52	0.03
DD025667		0.94	10.0	1.46	1.66	<0.05	0.03	0.04	0.016	0.06	8.9	6.6	5.93	260	3.04	0.02
DD025668		0.75	12.3	1.88	2.92	<0.05	0.04	0.04	0.019	0.05	11.8	11.6	3.63	307	1.63	0.02
DD025669		1.31	15.7	2.60	4.44	0.05	0.07	0.05	0.032	0.08	15.2	15.8	1.67	635	2.14	0.02
DD025670		0.62	8.1	0.85	1.25	<0.05	0.05	0.02	0.010	0.05	5.9	5.2	8.28	208	1.39	0.03
DD025671		0.50	7.1	0.79	1.14	<0.05	0.05	0.03	0.010	0.04	5.6	4.6	8.37	207	2.16	0.03
DD025672		0.75	11.9	1.53	2.21	<0.05	0.06	0.02	0.018	0.06	9.0	7.9	6.56	279	2.01	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD025633		0.34	14.6	530	6.6	4.5	0.002	0.05	0.90	1.4	0.5	0.2	63.6	<0.01	0.03	0.5
DD025634		0.47	19.4	610	8.9	5.3	0.001	0.07	1.03	1.6	0.6	0.3	56.2	<0.01	0.03	0.6
DD025635		1.10	29.8	440	16.5	10.3	0.001	0.04	1.11	4.0	0.3	0.5	18.1	<0.01	0.04	2.4
DD025636		0.49	17.1	600	9.8	6.1	0.001	0.05	1.20	1.6	0.5	0.3	47.0	<0.01	0.03	0.7
DD025637		1.03	18.8	520	16.4	11.1	0.002	0.06	1.17	2.6	0.6	0.5	18.2	<0.01	0.07	1.3
DD025638		0.86	26.8	660	13.9	8.0	0.002	0.05	1.08	3.1	0.6	0.4	36.1	<0.01	0.03	1.4
DD025639		0.72	22.7	740	12.2	7.1	<0.001	0.04	0.92	2.6	0.3	0.4	38.3	<0.01	0.04	1.2
DD025640		0.80	22.9	690	11.2	5.7	0.001	0.03	0.86	3.0	0.5	0.3	46.8	<0.01	0.02	2.0
DD025641		0.41	19.4	640	9.7	5.2	0.003	0.07	1.04	1.7	0.5	0.3	81.6	<0.01	0.03	0.6
DD025642		0.44	18.9	370	8.9	4.7	0.001	0.05	0.74	2.2	0.6	0.2	95.0	<0.01	0.03	1.1
DD025643		0.76	27.3	570	14.2	6.9	0.002	0.05	1.03	3.0	0.4	0.4	54.1	<0.01	0.04	1.4
DD025644		0.79	30.8	640	14.5	5.9	0.001	0.05	1.10	3.0	0.7	0.4	50.1	<0.01	0.02	1.8
DD025645		0.53	26.8	530	12.5	4.7	0.001	0.04	1.47	2.5	0.5	0.3	88.5	<0.01	0.04	1.4
DD025646		0.30	16.5	610	9.7	5.0	0.002	0.07	1.79	1.8	0.5	0.3	100.0	<0.01	0.03	0.7
DD025647		0.30	14.8	430	8.1	4.4	0.002	0.05	1.47	1.8	0.6	0.2	115.0	<0.01	0.01	0.9
DD025648		0.43	19.2	480	11.0	5.4	0.001	0.05	1.93	2.4	0.4	0.3	98.2	<0.01	0.03	1.2
DD025649		0.18	20.4	110	12.8	3.6	0.002	0.04	0.55	2.3	0.5	<0.2	146.0	<0.01	0.02	1.9
DD025650		0.34	20.9	230	9.4	4.3	0.002	0.04	0.68	2.4	0.5	0.2	137.5	<0.01	0.02	1.7
DD025651		0.27	20.4	300	11.0	4.9	0.001	0.05	1.08	2.2	0.6	0.2	128.0	<0.01	0.02	1.0
DD025652		0.44	23.2	610	11.0	6.9	<0.001	0.06	1.19	2.2	0.6	0.3	40.0	<0.01	0.03	0.9
DD025653		0.60	22.7	570	11.1	7.1	<0.001	0.03	1.04	2.9	0.6	0.4	47.5	<0.01	0.02	1.4
DD025654		0.45	22.2	530	10.9	6.3	0.001	0.05	1.01	2.8	0.7	0.3	74.3	<0.01	0.02	1.1
DD025655		0.39	21.8	420	9.9	5.5	0.001	0.04	1.44	2.6	0.7	0.3	82.8	<0.01	0.03	1.2
DD025656		0.32	16.6	370	8.9	6.0	0.001	0.05	0.80	2.5	0.6	0.2	108.0	<0.01	0.03	1.0
DD025657		0.64	27.0	640	17.2	12.8	<0.001	0.05	1.44	4.2	0.7	0.6	18.7	<0.01	0.04	1.6
DD025658		0.86	26.6	540	17.8	12.8	<0.001	0.05	1.32	4.2	0.7	0.6	14.3	<0.01	0.03	1.9
DD025659		0.63	20.2	500	8.6	6.1	<0.001	0.04	1.33	2.8	0.6	0.3	69.9	<0.01	0.02	1.4
DD025660		0.23	8.7	380	4.2	2.9	<0.001	0.04	4.33	1.0	0.6	<0.2	115.5	<0.01	0.02	0.5
DD025661		0.21	11.9	320	4.6	2.5	0.001	0.04	2.46	0.9	0.7	<0.2	112.0	<0.01	0.02	0.4
DD025662		0.15	30.1	260	4.2	2.5	0.001	0.06	0.69	6.1	0.5	0.2	87.1	<0.01	0.01	0.8
DD025663		0.61	20.6	480	9.2	5.8	<0.001	0.03	1.89	2.7	0.6	0.3	57.4	<0.01	0.02	1.5
DD025664		0.31	31.3	250	8.8	4.2	<0.001	0.04	2.51	4.4	0.6	0.5	74.6	<0.01	0.02	1.3
DD025665		0.86	27.8	430	15.0	9.7	<0.001	0.04	1.58	4.5	0.6	0.5	25.9	<0.01	0.03	2.5
DD025666		0.16	33.7	110	4.6	2.8	0.001	0.18	1.37	8.2	0.5	0.2	103.5	<0.01	0.01	1.5
DD025667		0.36	17.0	510	9.4	5.2	0.001	0.05	0.80	2.2	0.7	0.2	90.3	<0.01	0.02	0.8
DD025668		0.66	20.8	630	10.4	7.3	<0.001	0.03	0.77	2.8	0.6	0.3	50.9	<0.01	0.02	1.6
DD025669		0.87	26.1	540	16.7	11.1	<0.001	0.04	1.14	3.8	0.7	0.5	28.4	<0.01	0.03	2.1
DD025670		0.29	10.3	580	6.3	4.9	<0.001	0.04	0.63	1.3	0.6	0.2	96.5	<0.01	0.02	0.5
DD025671		0.29	9.6	440	5.4	3.8	0.001	0.04	1.27	1.2	0.6	<0.2	102.5	<0.01	0.02	0.5
DD025672		0.37	16.3	690	10.4	6.3	0.001	0.05	1.04	2.0	0.6	0.3	74.7	<0.01	0.02	0.8

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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025633		0.014	0.33	0.63	20	0.08	5.49	56	1.1
DD025634		0.019	0.45	0.74	24	0.11	7.32	71	1.2
DD025635		0.037	0.24	0.78	48	0.29	9.53	99	1.3
DD025636		0.019	0.27	0.69	29	0.14	6.30	76	0.7
DD025637		0.033	0.25	0.82	51	0.19	5.69	137	0.8
DD025638		0.032	0.32	0.70	42	0.16	8.02	96	1.3
DD025639		0.029	0.24	0.71	38	0.17	7.62	89	1.1
DD025640		0.034	0.21	0.71	36	0.26	7.82	74	1.2
DD025641		0.016	0.42	1.16	26	0.12	6.98	70	0.9
DD025642		0.014	0.54	1.36	19	0.09	6.12	48	1.4
DD025643		0.026	0.54	1.37	36	0.15	8.19	75	1.2
DD025644		0.027	0.64	1.23	36	0.18	8.71	83	1.6
DD025645		0.019	0.60	1.62	27	0.11	7.13	74	1.4
DD025646		0.009	0.64	1.48	23	0.06	6.70	80	1.5
DD025647		0.010	0.66	1.45	19	0.06	5.55	61	1.3
DD025648		0.014	0.73	1.43	25	0.10	6.97	52	1.3
DD025649		<0.005	1.33	2.80	11	0.05	6.17	32	1.9
DD025650		0.011	0.95	2.63	16	0.12	6.55	41	1.4
DD025651		0.007	0.97	2.14	17	0.07	6.89	51	1.7
DD025652		0.017	0.38	0.70	33	0.41	9.22	79	1.0
DD025653		0.022	0.33	0.85	33	0.15	9.64	58	1.2
DD025654		0.015	0.49	0.93	27	0.21	9.66	66	1.5
DD025655		0.012	0.68	1.09	24	0.10	8.35	62	1.8
DD025656		0.009	0.66	1.12	18	0.07	7.59	53	1.3
DD025657		0.017	0.74	1.04	41	0.18	11.70	94	1.7
DD025658		0.027	0.38	1.11	52	0.20	14.15	140	1.1
DD025659		0.023	0.31	0.60	30	0.24	8.75	57	1.0
DD025660		0.006	0.43	0.75	9	<0.05	3.51	31	1.6
DD025661		0.005	0.60	0.86	7	<0.05	2.94	30	1.9
DD025662		<0.005	2.27	0.15	13	<0.05	7.57	34	1.0
DD025663		0.023	0.44	0.71	29	0.20	7.86	65	1.2
DD025664		<0.005	3.06	0.58	20	0.06	7.82	56	1.9
DD025665		0.024	0.49	0.58	48	0.21	12.55	96	2.2
DD025666		<0.005	4.73	0.39	8	<0.05	9.99	30	3.0
DD025667		0.011	0.33	1.07	24	0.12	7.60	61	0.9
DD025668		0.023	0.21	0.87	33	0.23	8.47	63	1.1
DD025669		0.024	0.34	0.83	51	0.18	9.58	138	1.7
DD025670		0.009	0.24	0.89	19	0.06	5.09	73	1.5
DD025671		0.009	0.45	1.03	16	0.09	4.94	63	1.3
DD025672		0.012	0.36	1.11	29	0.10	7.74	73	1.5



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**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025673		0.33	0.002	0.04	0.36	11	<0.2	<10	70	0.23	0.06	15.65	0.21	9.41	3.1	6
DD025674		0.29	0.002	0.07	0.69	16	<0.2	<10	90	0.31	0.10	12.40	0.32	15.65	4.9	11
DD025675		0.29	0.002	0.05	0.60	15	<0.2	<10	100	0.30	0.10	12.90	0.27	15.10	4.7	10
DD025676		0.26	0.001	0.07	0.58	8	<0.2	<10	80	0.29	0.08	11.30	0.26	16.00	4.9	10
DD025677		0.29	0.001	0.08	1.23	23.9	<0.2	<10	120	0.61	0.15	8.41	0.68	25.2	7.7	19
DD025678		0.28	0.001	0.08	1.00	15	<0.2	<10	100	0.44	0.11	11.25	0.64	16.80	4.9	17
DD025679		0.43	0.001	0.05	0.46	10	<0.2	<10	60	0.25	0.07	14.95	0.30	10.40	3.4	8
DD025680		0.36	<0.001	0.07	0.67	10	<0.2	<10	70	0.34	0.08	11.40	0.42	16.50	4.9	11
DD025681		0.35	0.001	0.07	0.60	10	<0.2	<10	80	0.30	0.09	12.35	0.37	14.95	4.6	10
DD025682		0.29	0.002	0.10	0.87	10.1	<0.2	<10	100	0.35	0.12	9.72	0.36	20.2	6.4	14
DD025683		0.21	0.003	0.12	1.13	13.3	<0.2	<10	110	0.52	0.19	6.44	0.55	24.2	8.1	20
DD025684		0.31	0.002	0.02	0.18	7	<0.2	<10	30	0.11	0.03	16.90	0.15	5.62	2.0	4
DD025685		0.37	0.001	0.01	0.21	5	<0.2	<10	40	0.21	0.08	18.00	0.11	5.61	2.5	5
DD025686		0.22	0.001	0.05	0.40	11	<0.2	<10	40	0.30	0.09	15.65	0.22	8.57	3.4	7
DD025687		0.36	0.001	0.03	0.20	2	<0.2	<10	30	0.15	0.05	17.40	0.14	4.27	1.4	4
DD025688		0.27	0.002	0.05	0.50	23	<0.2	<10	50	0.36	0.16	13.60	0.20	13.80	6.7	20
DD025689		0.33	<0.001	0.01	0.33	52	<0.2	<10	30	0.42	0.13	16.75	0.12	10.90	4.9	13
DD025690		0.34	<0.001	0.01	0.14	5	<0.2	<10	30	0.23	0.15	16.15	0.04	6.61	2.7	5
DD025691		0.23	0.001	0.02	0.46	56	<0.2	<10	40	0.44	0.12	15.25	0.15	12.40	5.4	12
DD025692		0.31	0.001	0.03	0.30	5	<0.2	<10	40	0.27	0.10	16.65	0.10	11.10	3.8	5
DD025693		0.27	0.002	0.02	0.21	2	<0.2	<10	40	0.32	0.11	15.30	0.07	13.20	7.5	7
DD025694		0.28	0.003	0.03	0.20	10	<0.2	<10	50	0.30	0.14	16.10	0.15	8.62	7.0	6
DD025695		0.37	0.002	0.01	0.20	5	<0.2	<10	20	0.23	0.10	16.25	0.03	9.70	5.1	6
DD025696		0.27	<0.001	0.02	0.14	6	<0.2	<10	40	0.22	0.10	17.50	0.05	5.43	5.3	5
DD025697		0.31	0.001	0.01	0.22	5	<0.2	<10	30	0.25	0.12	17.50	0.06	9.10	4.5	5
DD025698		0.32	0.001	0.02	0.23	14	<0.2	<10	60	0.33	0.18	14.45	0.11	9.83	9.3	8
DD025699		0.32	0.002	0.04	0.30	9	<0.2	<10	80	0.30	0.20	16.15	0.15	11.00	8.5	7
DD025700		0.31	0.002	0.03	0.22	18	<0.2	<10	50	0.34	0.21	15.05	0.15	12.35	7.4	7
DD025701		0.30	0.001	0.04	0.20	9	<0.2	<10	100	0.38	0.14	13.70	0.14	13.20	9.4	7
DD025702		0.31	0.001	0.06	0.31	10	<0.2	<10	50	0.42	0.23	14.55	0.15	15.30	13.5	9
DD025703		0.29	0.001	0.01	1.63	127.5	<0.2	<10	190	1.87	0.45	4.65	0.41	71.3	22.7	30
DD025704		0.30	<0.001	0.01	0.27	3	<0.2	<10	60	0.41	0.20	16.90	0.07	14.45	5.3	6
DD025705		0.25	<0.001	0.02	0.26	14	<0.2	<10	70	0.37	0.19	15.85	0.16	9.41	6.9	6
DD025706		0.30	0.002	0.02	0.30	21	<0.2	<10	50	0.44	0.15	15.55	0.29	9.93	8.0	11
DD025707		0.28	0.003	0.03	0.35	14	<0.2	<10	40	0.43	0.17	12.90	0.13	12.85	5.7	10
DD025708		0.24	0.001	0.03	0.48	42.1	<0.2	<10	40	0.41	0.35	6.38	0.22	11.05	10.2	15
DD025709		0.30	<0.001	0.01	0.09	10	<0.2	<10	40	0.17	0.03	18.80	0.13	2.08	1.0	7
DD025710		0.32	0.001	0.05	0.38	21	<0.2	<10	150	0.41	0.06	15.80	0.19	9.93	4.7	10
DD025711		0.31	0.002	0.05	0.45	45	<0.2	<10	130	0.46	0.13	11.80	0.19	21.6	15.9	43
DD025712		0.32	0.001	0.05	0.29	25	<0.2	<10	40	0.27	0.06	16.75	0.21	10.70	5.4	10

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025673		0.50	6.1	0.65	0.91	<0.05	0.04	0.01	0.008	0.04	4.6	3.7	9.25	166	2.05	0.03
DD025674		0.60	9.2	1.18	1.64	<0.05	0.06	0.03	0.015	0.05	7.4	5.2	7.59	241	3.09	0.02
DD025675		0.82	8.8	1.08	1.37	<0.05	0.07	0.02	0.014	0.07	7.4	3.9	7.57	247	3.03	0.02
DD025676		0.59	8.8	1.16	1.52	<0.05	0.05	0.04	0.012	0.04	7.5	6.0	6.70	223	1.26	0.02
DD025677		0.90	12.0	1.83	2.88	<0.05	0.05	0.04	0.022	0.05	11.5	9.1	5.06	491	1.79	0.02
DD025678		0.69	12.2	1.32	2.16	<0.05	0.05	0.03	0.016	0.06	8.2	6.8	6.76	291	1.20	0.02
DD025679		0.60	7.5	0.75	1.14	<0.05	0.06	0.02	0.009	0.05	4.9	4.3	8.89	174	1.05	0.03
DD025680		0.66	9.0	1.17	1.64	<0.05	0.04	0.03	0.013	0.05	8.1	6.3	6.64	243	1.66	0.02
DD025681		1.07	9.8	1.12	1.48	<0.05	0.06	0.03	0.013	0.06	6.9	5.4	7.12	200	1.30	0.02
DD025682		0.99	12.9	1.56	2.15	<0.05	0.05	0.03	0.014	0.06	9.6	8.0	4.73	260	1.55	0.02
DD025683		0.62	15.7	2.00	2.79	<0.05	0.03	0.05	0.026	0.06	11.5	8.2	3.77	521	1.80	0.02
DD025684		0.32	2.9	0.31	0.43	0.05	0.03	0.02	0.006	0.02	3.7	1.2	9.93	96	0.37	0.02
DD025685		0.90	5.1	0.60	0.48	<0.05	0.03	0.04	0.008	0.05	2.5	1.7	9.52	79	2.57	0.02
DD025686		0.27	7.0	0.80	0.99	<0.05	0.05	0.08	0.011	0.03	4.0	2.9	9.00	174	0.73	0.01
DD025687		0.15	4.0	0.35	0.42	<0.05	0.03	0.03	0.006	0.02	2.3	1.4	10.55	131	0.50	0.01
DD025688		0.40	12.4	1.72	1.27	<0.05	0.06	0.23	0.016	0.04	7.0	4.1	7.40	215	1.66	0.01
DD025689		0.42	13.2	1.41	0.86	<0.05	0.08	0.93	0.015	0.06	2.7	2.1	8.89	106	0.85	0.02
DD025690		1.05	4.6	0.95	0.47	<0.05	0.03	0.09	0.013	0.06	3.2	1.1	8.35	47	1.83	0.02
DD025691		1.45	6.6	1.22	1.17	<0.05	0.06	0.08	0.017	0.07	5.5	2.3	8.34	182	0.41	0.01
DD025692		1.79	5.1	0.79	0.68	<0.05	0.04	0.03	0.012	0.06	5.0	2.0	8.52	121	0.80	0.02
DD025693		1.26	5.9	1.23	0.52	<0.05	0.04	0.05	0.011	0.05	5.6	1.3	8.58	156	0.76	0.01
DD025694		2.80	11.0	1.41	0.52	<0.05	0.03	0.11	0.016	0.07	3.6	1.5	8.14	99	3.48	0.02
DD025695		3.16	5.7	0.91	0.52	<0.05	0.03	0.04	0.011	0.08	4.2	1.3	8.73	133	0.39	0.02
DD025696		0.75	5.4	0.87	0.33	<0.05	0.04	0.05	0.011	0.06	2.3	1.1	9.16	88	1.52	0.02
DD025697		1.28	4.5	0.88	0.52	<0.05	0.02	0.05	0.013	0.06	3.9	1.4	8.99	140	0.56	0.02
DD025698		1.90	10.2	1.88	0.67	<0.05	0.09	0.24	0.017	0.08	3.8	1.2	7.28	120	2.38	0.01
DD025699		1.97	13.9	1.25	0.70	<0.05	0.03	0.07	0.012	0.07	4.3	2.1	8.33	154	3.19	0.02
DD025700		1.31	11.9	1.56	0.58	<0.05	0.04	0.06	0.015	0.08	5.4	1.6	7.98	124	0.56	0.01
DD025701		1.07	10.2	1.59	0.55	<0.05	0.08	0.10	0.010	0.09	5.5	1.2	7.45	202	3.17	0.01
DD025702		2.12	9.9	1.71	0.78	<0.05	0.04	0.10	0.013	0.08	6.4	1.9	7.69	246	2.03	0.01
DD025703		4.52	32.3	4.63	5.32	0.05	0.56	0.39	0.065	0.09	11.1	11.0	2.51	816	2.12	<0.01
DD025704		1.90	6.3	1.46	0.65	<0.05	0.04	0.03	0.011	0.09	6.0	1.2	6.20	193	1.41	0.02
DD025705		2.81	7.4	1.72	0.73	<0.05	0.04	0.08	0.016	0.07	4.1	1.8	8.04	125	3.63	0.02
DD025706		2.27	10.2	1.61	0.80	<0.05	0.05	0.06	0.015	0.07	4.3	1.7	8.08	156	1.04	0.01
DD025707		2.40	9.7	1.52	1.10	<0.05	0.04	0.05	0.013	0.08	6.1	2.4	6.73	125	1.17	0.01
DD025708		1.17	15.7	2.23	1.96	<0.05	0.05	0.05	0.042	0.09	5.2	3.7	3.50	102	3.62	0.01
DD025709		0.29	4.9	0.34	0.24	<0.05	0.08	0.03	0.005	0.01	1.8	1.3	11.05	71	0.27	0.02
DD025710		0.33	6.8	1.01	0.94	<0.05	0.04	0.03	0.009	0.04	5.7	3.1	9.16	562	1.03	0.01
DD025711		1.18	22.2	5.77	1.40	0.05	0.03	0.17	0.053	0.11	8.3	1.5	6.21	176	3.85	0.01
DD025712		0.54	6.9	1.77	0.73	<0.05	0.03	0.17	0.013	0.05	4.9	1.9	9.16	196	5.54	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD025673		0.27	8.6	330	4.7	3.4	<0.001	0.03	0.63	1.2	0.5	<0.2	106.0	<0.01	0.02	0.6
DD025674		0.33	12.7	540	7.4	5.1	<0.001	0.05	0.90	1.7	0.6	0.2	81.0	<0.01	0.02	0.7
DD025675		0.32	12.4	470	7.0	5.4	<0.001	0.05	0.69	1.6	0.6	0.2	89.1	<0.01	0.02	0.7
DD025676		0.38	11.2	390	8.1	4.2	<0.001	0.03	0.55	2.0	0.5	0.2	79.5	<0.01	0.02	1.0
DD025677		0.55	17.9	700	12.0	7.5	0.001	0.05	1.16	2.2	0.6	0.3	60.2	<0.01	0.03	0.8
DD025678		0.34	13.0	1070	10.2	7.0	0.001	0.07	0.65	1.4	0.6	0.2	72.8	<0.01	0.02	0.5
DD025679		0.27	9.2	490	5.6	3.9	<0.001	0.05	0.58	1.2	0.5	<0.2	100.5	<0.01	0.02	0.6
DD025680		0.35	12.1	540	8.4	4.6	<0.001	0.05	0.62	1.9	0.6	0.2	87.3	<0.01	0.02	0.8
DD025681		0.33	12.6	470	7.8	5.0	0.001	0.04	0.59	1.8	0.6	0.2	87.7	<0.01	0.02	0.8
DD025682		0.46	16.8	570	9.9	5.9	<0.001	0.05	0.71	2.2	0.6	0.2	82.6	<0.01	0.02	1.0
DD025683		0.45	21.5	950	11.8	7.1	<0.001	0.10	1.03	1.6	0.8	0.3	44.4	<0.01	0.03	0.4
DD025684		0.20	5.8	190	2.6	1.8	<0.001	0.03	0.66	0.8	0.4	<0.2	92.3	<0.01	0.01	0.4
DD025685		0.20	8.8	120	3.7	2.7	0.002	0.05	0.24	1.2	0.2	<0.2	130.0	<0.01	0.02	1.1
DD025686		0.32	10.8	370	4.8	2.9	0.002	0.04	0.95	1.1	<0.2	0.2	87.6	<0.01	0.02	0.6
DD025687		0.21	6.0	240	2.8	1.8	0.002	0.03	0.47	0.5	<0.2	<0.2	70.0	<0.01	0.01	0.3
DD025688		0.38	26.3	400	6.1	3.0	0.004	0.04	1.71	3.1	0.3	0.2	96.0	<0.01	<0.01	0.9
DD025689		0.19	24.2	120	4.8	2.8	0.001	0.02	3.04	2.6	0.2	0.2	117.0	<0.01	<0.01	1.3
DD025690		0.14	8.7	50	4.5	2.8	0.002	0.05	0.24	1.9	<0.2	0.3	119.0	<0.01	0.02	1.8
DD025691		0.22	17.1	320	6.8	4.6	0.001	0.04	1.00	2.2	0.3	0.3	85.8	<0.01	0.01	1.1
DD025692		0.20	10.1	200	6.1	4.5	0.001	0.05	0.26	1.7	0.5	0.2	109.5	<0.01	<0.01	1.0
DD025693		0.16	14.3	130	6.7	2.9	<0.001	0.02	0.27	2.4	0.3	0.2	95.5	<0.01	0.02	1.4
DD025694		0.13	23.0	90	8.4	4.0	0.002	0.04	0.51	2.0	0.6	0.3	154.5	<0.01	0.02	1.4
DD025695		0.12	10.6	90	5.6	4.2	0.002	0.04	0.20	1.9	0.2	0.2	122.0	<0.01	0.02	1.5
DD025696		0.13	11.5	70	5.6	3.0	0.002	0.05	0.29	1.3	0.4	0.2	136.5	<0.01	0.01	1.1
DD025697		0.14	8.9	120	5.8	3.5	0.002	0.04	0.21	1.6	0.3	0.2	130.0	<0.01	0.01	1.0
DD025698		0.11	22.0	70	11.3	4.1	0.004	0.04	0.42	2.8	0.5	0.3	111.0	<0.01	0.03	2.2
DD025699		0.19	16.5	170	12.4	4.8	0.002	0.04	0.57	1.6	0.5	0.2	124.0	<0.01	0.06	1.3
DD025700		0.15	20.7	90	14.7	4.4	0.001	0.05	0.38	2.0	0.5	0.2	106.0	<0.01	0.04	1.9
DD025701		0.14	18.2	100	11.4	3.8	0.004	0.04	0.47	2.3	0.4	0.2	58.8	<0.01	0.01	2.4
DD025702		0.22	21.4	180	12.3	4.5	0.001	0.02	0.84	2.4	0.9	0.2	66.1	<0.01	0.04	2.0
DD025703		0.24	92.6	370	32.3	10.6	0.001	0.01	1.86	9.3	0.7	1.1	35.6	<0.01	0.06	10.8
DD025704		0.13	12.6	100	9.2	4.4	0.001	0.04	0.19	2.1	0.4	0.2	148.0	<0.01	0.02	2.6
DD025705		0.18	17.4	200	9.7	4.4	0.002	0.05	0.39	1.5	0.3	0.3	112.0	<0.01	0.01	1.0
DD025706		0.15	18.4	250	9.8	4.4	0.001	0.05	0.47	2.5	0.5	0.3	111.0	<0.01	0.02	1.1
DD025707		0.26	16.2	230	10.7	5.2	0.001	0.03	0.45	2.6	0.6	0.3	71.5	<0.01	0.03	1.7
DD025708		0.30	35.3	360	17.8	5.1	0.001	0.04	0.60	3.0	0.3	0.7	55.2	<0.01	0.05	2.2
DD025709		0.13	7.9	50	2.9	0.6	0.001	0.02	0.73	1.3	0.3	<0.2	129.0	<0.01	<0.01	0.4
DD025710		0.33	13.0	400	7.0	3.1	0.001	0.04	1.38	1.2	0.6	<0.2	83.5	<0.01	0.02	0.5
DD025711		0.21	69.2	1470	16.4	3.8	<0.001	0.03	1.03	9.1	0.9	0.5	106.5	<0.01	0.06	2.5
DD025712		0.29	14.7	220	10.7	2.4	<0.001	0.03	1.37	2.1	<0.2	0.2	115.0	<0.01	0.02	1.0



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**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025673		0.007	0.30	0.82	12	0.06	4.04	35	1.4
DD025674		0.010	0.52	0.57	18	0.09	5.73	61	1.5
DD025675		0.009	0.47	0.58	14	0.06	6.67	54	1.9
DD025676		0.012	0.21	0.82	18	0.08	6.07	41	1.2
DD025677		0.017	0.22	0.95	36	0.14	9.47	98	1.4
DD025678		0.011	0.23	1.16	34	0.09	6.59	99	1.3
DD025679		0.009	0.26	1.15	17	0.05	4.02	54	1.6
DD025680		0.010	0.21	0.95	21	0.14	6.92	48	1.2
DD025681		0.010	0.28	0.90	19	0.08	5.93	57	1.5
DD025682		0.014	0.26	0.93	26	0.11	7.45	64	1.4
DD025683		0.018	0.26	0.74	33	0.18	9.05	103	0.7
DD025684		0.005	0.11	0.46	6	<0.05	3.37	20	1.0
DD025685		<0.005	0.28	0.70	7	<0.05	2.07	20	1.1
DD025686		0.010	0.18	0.45	13	0.05	3.59	38	1.3
DD025687		0.006	0.11	0.49	8	0.05	2.01	24	1.0
DD025688		0.011	0.76	0.55	18	0.08	5.59	40	1.7
DD025689		<0.005	0.55	0.59	10	<0.05	2.79	36	5.7
DD025690		<0.005	0.64	0.34	4	<0.05	3.14	8	1.7
DD025691		<0.005	0.41	0.41	10	<0.05	5.65	41	2.0
DD025692		<0.005	0.38	0.31	7	<0.05	4.39	25	1.3
DD025693		<0.005	0.37	0.48	9	<0.05	6.02	22	1.3
DD025694		<0.005	0.41	0.73	6	<0.05	4.35	26	2.0
DD025695		<0.005	0.31	0.31	5	<0.05	4.05	20	1.6
DD025696		<0.005	0.15	0.56	4	<0.05	2.69	16	1.9
DD025697		<0.005	0.29	0.37	5	<0.05	3.78	19	1.0
DD025698		<0.005	0.40	0.76	8	<0.05	4.77	27	4.9
DD025699		<0.005	0.53	1.61	10	<0.05	4.34	30	1.6
DD025700		<0.005	0.11	0.57	7	<0.05	5.40	32	1.8
DD025701		<0.005	0.26	1.34	9	<0.05	6.53	31	4.3
DD025702		<0.005	0.45	1.08	19	<0.05	7.59	26	1.2
DD025703		0.011	4.13	1.29	49	0.07	12.25	276	27.3
DD025704		<0.005	0.13	0.47	10	<0.05	5.28	31	2.2
DD025705		<0.005	1.12	0.75	9	<0.05	3.82	31	1.4
DD025706		<0.005	0.57	0.84	13	<0.05	5.31	34	1.5
DD025707		<0.005	0.35	0.50	11	<0.05	6.03	21	1.2
DD025708		0.006	1.36	0.76	16	0.05	5.13	68	1.7
DD025709		<0.005	0.34	0.41	5	<0.05	2.72	50	3.2
DD025710		0.010	0.59	0.98	15	0.12	7.64	34	1.2
DD025711		<0.005	2.19	1.56	31	<0.05	19.55	51	1.9
DD025712		0.006	1.13	0.78	11	<0.05	4.51	27	1.1



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**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025713		0.27	0.001	0.07	0.48	10	<0.2	<10	50	0.32	0.07	14.15	0.25	12.20	3.7	8
DD025714		0.33	0.001	0.05	0.38	8	<0.2	<10	120	0.31	0.06	15.90	0.21	9.90	3.8	6
DD025715		0.31	0.002	0.02	0.18	4	<0.2	<10	80	0.25	0.02	17.75	0.07	4.76	1.6	4
DD025716		0.27	0.001	0.07	0.24	9	<0.2	<10	70	0.35	0.04	18.30	0.40	7.14	1.7	4
DD025717		0.25	0.003	0.17	0.50	13	<0.2	<10	90	0.52	0.08	12.65	0.48	16.65	4.8	10
DD025718		0.24	0.001	0.05	0.25	4	<0.2	<10	30	0.22	0.03	17.30	0.18	7.42	2.4	5
DD025719		0.41	0.001	0.01	0.10	4	<0.2	<10	60	0.24	0.01	19.20	0.11	2.98	0.9	2
DD025720		0.24	0.002	0.12	0.58	9	<0.2	<10	240	0.45	0.08	12.05	0.32	14.60	4.2	10
DD025721		0.27	0.003	0.19	0.95	13.5	<0.2	<10	200	0.57	0.13	7.24	0.48	21.9	8.2	17
DD025722		0.20	0.003	0.16	0.76	14.5	<0.2	<10	170	0.47	0.12	6.69	0.54	23.8	8.8	15
DD025723		0.31	0.002	0.09	0.51	16	<0.2	<10	130	0.45	0.09	11.80	0.35	22.8	5.7	9
DD025724		0.29	0.007	3.44	0.88	19.9	<0.2	10	1580	0.66	0.19	1.84	1.41	20.1	5.3	59
DD025725		0.32	0.025	3.22	0.43	34.2	<0.2	10	360	0.36	0.51	3.13	2.77	12.55	2.8	53
DD025726		0.25	0.002	0.53	1.05	13.1	<0.2	<10	370	0.57	0.14	5.36	0.80	23.7	6.9	24
DD025727		0.30	0.008	9.40	0.62	38.3	<0.2	20	1010	0.78	0.25	2.59	27.8	21.2	4.8	152
DD025728		0.33	0.003	0.07	0.39	10	<0.2	<10	60	0.22	0.07	14.90	0.23	15.25	4.0	7

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		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD025713		0.47	7.4	1.01	1.10	<0.05	0.03	0.08	0.007	0.03	7.6	3.7	8.66	358	1.01	0.01
DD025714		0.25	5.6	0.66	0.82	<0.05	0.03	0.04	0.009	0.03	6.8	2.6	9.37	671	0.60	0.01
DD025715		0.17	3.0	0.34	0.37	<0.05	0.02	0.03	<0.005	0.01	3.7	1.6	10.60	424	0.33	0.02
DD025716		0.25	3.1	0.37	0.47	<0.05	0.03	0.06	<0.005	0.02	5.5	2.1	10.70	514	0.32	0.02
DD025717		0.51	9.3	1.21	1.39	0.05	0.03	0.08	0.012	0.03	11.5	4.5	7.19	650	1.27	0.02
DD025718		0.31	4.3	0.53	0.61	<0.05	0.03	0.04	0.005	0.03	5.4	1.9	10.50	390	0.50	0.02
DD025719		0.18	1.7	0.25	0.20	<0.05	0.02	0.08	<0.005	0.01	2.3	1.6	11.50	341	0.27	0.02
DD025720		0.52	9.9	1.19	1.50	<0.05	0.06	0.04	0.014	0.04	9.7	4.8	7.02	523	1.33	0.01
DD025721		0.65	14.7	1.97	2.18	<0.05	0.05	0.07	0.021	0.05	15.1	6.6	4.05	942	1.67	0.02
DD025722		0.59	13.8	1.96	2.01	<0.05	0.04	0.07	0.021	0.05	15.4	6.1	3.70	689	1.61	0.02
DD025723		0.40	8.9	1.33	1.36	<0.05	0.07	0.29	0.017	0.04	16.6	3.3	7.14	1260	3.76	0.02
DD025724		0.80	47.0	2.39	2.72	0.08	0.10	0.34	0.038	0.11	19.3	7.4	0.21	121	6.06	0.03
DD025725		1.83	42.7	3.61	2.34	0.16	0.06	0.29	0.104	0.34	9.6	3.4	1.45	69	24.4	0.03
DD025726		0.63	15.1	2.09	2.72	0.05	0.05	0.09	0.025	0.05	16.5	8.9	2.67	484	2.46	0.02
DD025727		1.37	84.2	3.02	3.01	0.18	0.10	0.31	0.046	0.19	24.4	5.3	0.09	49	78.5	0.03
DD025728		0.36	5.9	0.70	0.99	<0.05	0.04	0.04	0.009	0.03	10.5	3.1	8.95	441	1.14	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 12- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD025713		0.32	12.0	470	13.2	2.7	<0.001	0.03	0.92	1.0	<0.2	0.2	61.2	<0.01	0.03	0.7
DD025714		0.24	9.6	890	9.3	2.6	0.001	0.05	0.99	0.6	0.3	0.2	77.8	<0.01	0.02	0.3
DD025715		0.19	5.5	380	3.9	1.1	0.001	0.03	0.75	0.4	0.2	<0.2	91.9	<0.01	0.01	0.2
DD025716		0.18	5.9	740	23.6	1.7	0.001	0.04	0.89	0.4	0.3	<0.2	105.5	<0.01	0.01	0.3
DD025717		0.34	16.2	1240	19.9	3.4	<0.001	0.05	1.39	1.0	0.6	0.2	87.6	<0.01	0.01	0.5
DD025718		0.24	7.8	550	8.7	1.9	0.001	0.04	0.59	0.8	0.4	<0.2	68.3	<0.01	<0.01	0.3
DD025719		0.13	4.5	370	4.5	0.6	0.001	0.02	0.62	0.3	0.2	<0.2	115.0	<0.01	0.01	0.3
DD025720		0.32	14.4	1100	9.2	4.2	0.001	0.06	1.28	1.0	0.6	0.2	71.5	<0.01	0.02	0.4
DD025721		0.27	22.9	1860	13.6	5.1	<0.001	0.14	1.45	1.2	1.1	0.3	44.9	0.01	0.03	0.3
DD025722		0.33	22.0	1240	11.5	4.2	<0.001	0.10	1.99	1.6	0.8	0.3	44.5	0.01	0.02	0.4
DD025723		0.21	15.4	1510	12.3	3.5	<0.001	0.08	1.05	1.3	0.9	0.2	73.6	0.01	0.02	0.5
DD025724		0.26	74.9	3890	12.1	8.9	0.006	0.12	1.94	3.9	5.4	0.4	120.0	0.01	0.14	1.3
DD025725		0.09	49.6	2330	34.1	15.7	0.011	0.80	5.01	4.2	28.7	0.8	268	<0.01	0.34	2.0
DD025726		0.43	25.1	1710	11.3	5.5	0.001	0.10	1.28	2.0	1.3	0.3	57.6	0.01	0.03	0.5
DD025727		0.11	197.5	6020	14.6	12.4	0.022	0.23	10.45	6.3	18.2	0.6	302	0.01	0.20	2.3
DD025728		0.25	9.9	1260	9.3	2.9	<0.001	0.05	0.94	0.9	0.6	<0.2	82.5	<0.01	0.02	0.4

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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025713		0.011	0.25	1.07	16	0.07	9.14	51	1.1
DD025714		0.007	0.26	1.00	12	0.05	11.25	33	1.0
DD025715		0.005	0.36	1.01	6	<0.05	6.51	15	0.8
DD025716		0.005	0.15	1.24	8	<0.05	8.79	64	1.0
DD025717		0.012	0.57	1.62	19	0.21	14.85	79	0.9
DD025718		0.007	0.20	1.19	9	<0.05	8.37	29	1.1
DD025719		<0.005	0.34	1.26	4	<0.05	4.08	25	0.7
DD025720		0.011	0.30	1.10	20	0.12	14.00	51	1.0
DD025721		0.010	0.32	1.36	31	0.20	23.2	80	0.9
DD025722		0.011	0.36	0.99	27	0.17	18.30	73	0.8
DD025723		0.005	0.35	1.73	18	0.09	21.9	57	1.7
DD025724		0.006	0.26	5.36	60	0.23	49.2	241	2.6
DD025725		<0.005	0.90	3.81	94	0.15	18.60	210	2.7
DD025726		0.013	0.19	1.73	40	0.33	21.4	98	1.0
DD025727		<0.005	1.82	14.45	257	0.39	65.0	834	3.4
DD025728		0.008	0.26	1.27	13	0.16	15.60	35	0.8

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Project: ATAC- Regional Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12145883**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12145885**

Project: ATAC- Regional Area D,F  
 P.O. No.: R7  
 This report is for 76 Rock samples submitted to our lab in Whitehorse, YT, Canada on 23- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATAC- Regional Area D,F

**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.980264		0.31	<0.01	0.66	0.24	<5	5720	0.07	0.05	14.15	1.60	2.47	1.1	31	0.93	6.7
.980265		0.54	<0.01	0.60	1.71	300	2280	1.88	0.10	0.09	1.42	15.35	25.3	103	2.64	69.1
.980266		0.57	<0.01	0.30	0.51	4.8	4480	0.17	0.04	6.24	2.08	4.80	2.3	24	0.91	8.2
.980267		0.63	<0.01	0.95	0.95	9.7	4520	0.45	0.05	0.16	0.50	8.27	4.2	43	2.36	36.2
.980268		0.45	<0.01	0.52	0.40	5	970	0.14	0.05	12.30	1.23	5.28	0.8	35	0.96	9.3
.980269		0.62	<0.01	0.18	0.27	7	200	<0.05	0.04	16.55	0.36	3.89	1.0	10	0.33	2.6
.980270		0.47	<0.01	0.20	0.64	5	200	0.09	0.04	10.95	1.53	8.03	1.1	16	0.29	3.3
.980271		0.41	<0.01	0.10	0.09	10	490	0.05	0.04	22.4	0.25	7.42	2.4	6	0.10	3.7
.980272		0.36	0.03	0.59	0.19	457	1360	0.12	0.05	26.8	0.77	11.45	8.3	10	1.20	13.1
.980273		0.28	<0.01	0.13	0.19	9	1330	0.06	0.05	21.1	0.24	7.81	1.7	7	0.42	3.6
.980274		0.30	<0.01	0.22	0.60	5.8	200	0.49	0.05	2.80	5.81	8.40	3.6	33	1.07	20.9
.980275		0.46	<0.01	0.52	6.81	551	7280	7.54	0.05	2.58	4.98	5.71	90.8	101	0.93	541
.980276		0.43	<0.01	0.11	0.16	7	880	0.14	0.02	34.1	1.06	1.27	1.7	8	0.10	7.3
.980277		0.38	<0.01	0.15	0.15	78	80	0.19	0.02	28.9	2.03	1.67	5.1	3	0.07	14.9
.980278		0.60	<0.01	0.02	0.37	10	80	0.10	0.03	19.35	1.39	5.29	21.6	5	0.13	2.9
.980279		0.32	<0.01	0.08	0.22	18	40	0.07	0.02	23.5	0.54	3.72	0.9	4	0.28	3.7
.980280		0.46	<0.01	0.04	0.06	10	20	<0.05	0.01	23.8	0.74	1.02	0.6	3	0.05	3.1
.980281		0.39	<0.01	0.16	3.16	6.8	1140	0.98	0.12	0.84	2.80	22.3	8.2	95	3.67	95.2
.980282		0.56	<0.01	0.02	0.31	<5	80	0.13	0.02	34.7	0.03	4.31	0.6	5	0.17	1.9
.980283		0.30	<0.01	0.04	0.48	7	40	0.14	0.03	25.7	0.96	5.48	1.2	6	0.57	4.7
.980284		0.54	<0.01	0.05	0.81	18	50	0.23	0.03	34.7	8.37	14.55	3.8	8	0.49	6.9
.980285		0.31	<0.01	0.18	0.61	346	2740	0.32	0.02	13.15	0.29	7.14	1.2	4	0.18	5.1
.980286		0.25	<0.01	0.56	0.17	91	180	0.07	0.02	21.2	2.96	6.89	0.5	2	0.07	4.0
.980287		0.58	<0.01	0.19	0.62	600	1030	0.29	0.04	17.80	0.39	11.80	3.9	6	0.48	6.6
.980288		0.50	<0.01	0.06	0.20	42	210	0.08	0.02	18.70	0.06	7.90	0.6	5	0.11	3.7
.980289		0.33	<0.01	0.27	5.45	37.2	590	1.59	0.30	0.35	0.07	89.6	2.9	62	5.06	53.5
.980290		0.55	<0.01	0.07	0.15	2730	330	<0.05	0.02	18.20	480	7.80	1.7	3	0.05	33.2
.980291		0.43	<0.01	0.05	1.15	167.5	1630	0.13	0.03	5.24	1.55	10.10	1.5	8	0.25	2.7
.980292		0.61	<0.01	0.02	0.18	134	420	0.09	0.02	16.85	0.87	4.44	0.2	3	0.11	2.0
.980293		0.49	<0.01	0.09	1.28	83.8	390	0.12	0.03	0.10	0.21	6.54	1.2	7	0.37	2.1
.980294		0.38	<0.01	0.17	0.24	88	30	0.17	0.02	20.1	6.50	2.11	0.3	3	<0.05	1.5
.980295		0.97	<0.01	0.03	0.35	797	5820	0.05	0.01	2.41	2.13	2.74	3.2	6	0.14	17.7
.980296		0.56	<0.01	0.02	0.21	353	4750	0.07	0.01	0.13	0.39	2.87	0.4	3	0.15	2.3
.980297		0.38	<0.01	0.04	0.83	1290	3020	0.26	0.03	0.41	1.19	5.83	0.6	8	0.32	5.1
.980298		1.18	<0.01	0.06	0.15	2510	960	0.08	0.02	20.4	3.75	6.24	1.1	3	<0.05	3.6
.980299		0.69	<0.01	0.03	0.19	1360	860	0.05	0.02	19.30	3.65	8.17	0.8	4	0.05	3.7
G0557644		0.48	<0.01	0.01	10.45	13.0	1560	2.92	0.54	0.13	0.07	102.5	16.9	78	10.45	6.2
G0557645		0.62	<0.01	0.03	1.04	1090	2490	0.13	0.07	0.28	0.24	24.4	1.4	15	0.64	7.5
L842508		0.96	<0.01	0.36	0.41	8	2220	0.29	0.02	21.3	9.89	2.50	4.3	18	0.49	13.3
L842509		0.29	<0.01	0.32	0.33	11.0	2340	0.16	0.02	0.49	0.44	2.69	1.0	25	0.54	6.8



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Project: ATAC- Regional Area D,F

**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	
.980264		0.33	0.79	<0.05	<0.1	0.03	<0.005	0.04	4.6	2.9	0.14	38	2.19	0.04	0.4	11.8
.980265		13.40	5.10	0.28	0.7	0.13	0.073	0.37	12.9	11.1	0.08	257	155.0	0.02	2.2	228
.980266		0.83	1.10	0.05	0.1	0.03	0.007	0.17	3.9	3.3	0.13	136	1.74	0.03	0.7	20.0
.980267		2.74	3.05	0.08	0.4	0.05	0.038	0.35	5.6	6.1	0.06	86	3.13	0.04	1.5	55.9
.980268		0.44	1.26	0.08	0.3	0.04	0.013	0.14	5.8	4.3	0.10	39	3.32	0.01	0.6	16.4
.980269		0.35	0.87	0.09	0.1	0.01	0.007	0.03	7.3	22.4	10.10	95	0.52	0.01	0.3	5.9
.980270		0.47	2.16	0.13	0.2	0.01	0.005	0.03	8.1	23.6	6.37	146	0.53	0.01	0.6	5.1
.980271		3.70	0.21	0.08	0.1	0.01	<0.005	0.03	8.6	5.2	8.66	977	0.52	0.01	0.2	7.7
.980272		7.91	0.60	0.12	0.1	0.07	0.006	0.06	10.4	3.2	1.69	988	6.08	0.01	0.4	36.4
.980273		3.57	0.40	0.10	0.1	0.02	<0.005	0.06	9.0	4.3	8.85	1020	0.58	0.02	0.3	9.3
.980274		1.23	1.45	0.06	0.3	0.02	0.011	0.18	6.5	5.1	1.49	190	2.37	0.01	0.7	30.6
.980275		21.0	2.57	0.51	0.3	0.07	0.352	0.10	4.1	3.1	0.04	460	148.0	0.05	0.9	1420
.980276		0.36	0.28	0.12	<0.1	0.01	<0.005	0.02	2.5	0.6	0.12	63	1.54	0.01	0.1	20.0
.980277		2.89	0.16	0.06	<0.1	3.13	<0.005	0.01	0.8	0.7	4.25	165	13.85	0.01	0.1	36.2
.980278		4.51	0.90	0.12	0.2	1.74	<0.005	0.05	2.6	2.6	10.85	909	17.90	0.01	0.5	68.3
.980279		0.17	0.55	0.07	0.1	0.10	<0.005	0.04	1.7	2.1	10.40	48	1.66	0.01	0.3	7.5
.980280		0.19	0.22	0.12	<0.1	0.97	<0.005	0.01	0.5	1.0	10.70	26	1.67	0.01	0.1	3.7
.980281		5.72	6.91	0.11	1.1	0.08	0.036	0.65	15.2	145.0	0.20	415	24.1	0.06	3.0	78.0
.980282		0.21	0.65	0.06	0.1	0.01	0.005	0.18	2.1	1.6	1.10	48	0.47	<0.01	0.4	2.1
.980283		0.20	1.03	0.16	0.2	0.32	<0.005	0.14	2.9	3.1	8.07	27	0.33	0.01	0.7	12.3
.980284		0.46	1.92	0.16	0.5	0.61	0.007	0.21	8.4	5.4	1.74	68	0.17	0.01	1.4	34.2
.980285		0.82	1.18	0.13	0.1	8.2	0.007	0.03	4.2	56.9	7.72	629	0.13	0.03	0.4	3.2
.980286		1.31	1.40	0.11	0.1	22.8	0.009	0.04	4.1	3.4	12.00	1430	0.10	0.01	0.2	1.6
.980287		1.79	1.35	0.11	0.2	9.1	<0.005	0.12	7.4	21.0	10.60	1400	0.21	0.04	0.8	8.0
.980288		1.09	0.54	0.10	0.1	1.17	<0.005	0.06	4.9	2.4	11.05	1300	0.10	0.01	0.4	1.5
.980289		2.93	15.95	0.19	4.2	0.07	0.059	2.39	49.8	17.0	0.57	76	3.30	0.20	24.0	9.7
.980290		0.95	47.0	0.13	<0.1	>100	0.215	0.02	5.0	4.7	11.00	1130	0.08	0.01	0.1	2.0
.980291		0.84	2.14	0.09	0.5	15.2	0.008	0.05	5.0	273	2.99	259	0.21	0.02	0.8	4.6
.980292		0.49	0.44	0.14	0.1	21.5	<0.005	0.01	2.0	17.1	10.20	628	0.08	0.01	0.1	0.9
.980293		0.83	2.25	0.08	0.3	1.81	0.007	0.09	3.5	131.0	0.05	173	0.25	0.01	0.8	3.6
.980294		1.68	0.98	0.08	0.1	5.11	0.011	0.01	1.1	12.6	11.15	556	0.09	0.02	0.1	0.8
.980295		1.30	1.05	0.08	0.1	31.7	0.009	0.02	2.1	6.3	1.43	145	0.13	0.03	0.3	6.9
.980296		0.31	0.42	0.06	0.1	6.8	0.005	0.01	2.1	10.5	0.06	17	0.09	0.03	0.3	4.7
.980297		0.76	0.69	0.07	0.1	5.95	0.005	0.04	4.4	29.7	0.14	54	0.17	0.02	0.4	5.7
.980298		1.49	0.41	0.09	0.1	27.4	<0.005	0.01	3.9	2.5	12.25	995	0.11	0.02	0.3	3.8
.980299		1.21	0.51	0.09	0.1	6.31	<0.005	0.01	5.0	3.2	11.85	542	0.09	0.01	0.4	4.9
G0557644		3.95	27.9	0.21	2.8	0.19	0.089	2.93	47.8	54.7	0.32	705	0.43	0.16	17.9	31.0
G0557645		1.44	2.37	0.10	0.8	4.84	0.006	0.26	16.7	24.7	0.12	54	0.26	0.03	2.2	4.2
L842508		0.83	1.02	0.06	0.1	0.17	0.005	0.04	3.3	8.0	1.33	74	3.28	0.01	0.6	40.2
L842509		0.81	0.96	<0.05	0.2	0.08	0.005	0.09	2.3	3.7	0.04	74	1.92	0.01	0.4	10.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
.980264		2000	1.0	2.9	0.005	0.16	1.01	0.6	2	0.2	349	<0.05	<0.05	0.3	0.009	0.08
.980265		5900	3.9	21.8	0.015	0.16	21.0	6.5	8	0.7	201	0.14	0.13	3.6	0.057	0.53
.980266		1540	2.6	8.8	0.005	0.15	0.99	1.7	1	0.3	261	<0.05	<0.05	0.6	0.021	0.12
.980267		1700	2.9	17.2	0.005	0.12	2.19	5.3	5	0.5	83.3	0.09	0.05	2.7	0.040	0.23
.980268		930	1.6	7.5	0.006	0.05	1.56	3.3	2	0.3	664	<0.05	<0.05	0.7	0.019	0.07
.980269		210	3.2	1.5	0.002	0.01	0.84	0.6	<1	0.2	84.9	<0.05	<0.05	0.5	0.007	0.14
.980270		250	37.0	1.4	0.003	0.01	1.03	2.2	<1	0.2	349	<0.05	<0.05	0.9	0.014	0.08
.980271		180	2.7	1.0	0.003	0.16	0.75	0.8	1	0.2	206	<0.05	0.07	0.5	0.005	0.02
.980272		440	9.3	2.7	0.003	0.09	4.23	1.8	11	0.2	115.0	<0.05	0.10	0.8	0.007	0.21
.980273		220	2.9	1.8	0.003	0.03	0.69	1.2	<1	0.2	179.0	<0.05	<0.05	0.8	0.008	0.03
.980274		640	4.1	8.8	0.004	0.02	1.21	3.1	<1	0.3	24.3	<0.05	<0.05	0.9	0.020	0.22
.980275		5400	3.0	2.6	0.004	0.09	17.05	16.5	13	0.3	307	0.06	<0.05	0.6	0.022	0.20
.980276		390	0.5	1.1	0.006	0.01	0.57	0.5	<1	0.2	279	<0.05	<0.05	0.2	<0.005	<0.02
.980277		70	2.8	0.6	0.002	0.01	1.35	0.3	<1	0.2	244	<0.05	<0.05	<0.2	<0.005	0.02
.980278		50	1.1	2.0	0.003	0.01	0.34	0.8	<1	0.3	210	<0.05	<0.05	0.5	0.016	0.12
.980279		810	0.9	2.6	0.005	0.01	0.78	0.5	<1	0.2	107.0	<0.05	<0.05	0.3	0.009	0.33
.980280		30	1.0	0.5	0.003	0.01	0.50	0.3	<1	0.2	121.0	<0.05	<0.05	<0.2	<0.005	0.02
.980281		1010	4.6	41.7	0.015	0.04	18.30	5.0	3	0.9	104.0	0.20	<0.05	3.6	0.130	0.20
.980282		10	0.8	4.9	0.004	0.01	0.15	0.5	<1	0.2	374	<0.05	<0.05	0.4	0.014	0.02
.980283		80	1.8	5.7	0.002	0.01	0.50	0.9	<1	0.3	105.0	0.05	<0.05	0.7	0.022	0.21
.980284		270	5.4	8.0	0.002	<0.01	1.39	3.0	<1	0.3	30.4	0.09	<0.05	1.4	0.044	0.51
.980285		2320	27.2	1.2	0.005	0.01	10.90	1.0	<1	0.3	1310	<0.05	<0.05	0.7	0.010	0.90
.980286		410	14.5	1.2	0.002	0.04	2.86	0.7	<1	0.3	101.5	<0.05	<0.05	0.2	<0.005	0.20
.980287		920	48.8	5.6	0.005	0.01	13.25	1.5	<1	0.3	525	0.05	<0.05	0.9	0.022	1.97
.980288		440	11.4	1.8	0.003	0.02	1.74	0.4	<1	0.2	110.5	<0.05	<0.05	0.4	0.009	0.11
.980289		280	27.2	133.5	0.003	0.02	0.96	8.8	<1	2.3	33.7	1.26	<0.05	13.8	0.415	0.56
.980290		340	14.0	0.7	0.002	0.02	5.84	0.9	2	1.4	184.5	<0.05	<0.05	0.2	<0.005	1.87
.980291		1300	27.8	1.9	0.003	0.02	15.50	0.8	<1	0.4	665	0.05	<0.05	1.4	0.023	0.21
.980292		430	17.8	0.6	0.003	0.01	2.32	0.8	<1	0.2	217	<0.05	<0.05	0.3	<0.005	0.07
.980293		330	11.1	3.2	0.002	0.02	10.60	0.4	<1	0.3	133.5	0.06	<0.05	0.9	0.025	0.11
.980294		140	1460	0.5	0.003	0.03	17.05	2.3	<1	0.2	166.0	<0.05	<0.05	0.2	<0.005	0.03
.980295		180	43.6	1.0	0.002	0.04	15.00	0.4	<1	0.2	60.7	<0.05	<0.05	0.3	0.008	0.26
.980296		370	26.4	0.8	0.002	0.05	13.65	0.1	<1	0.2	116.5	<0.05	<0.05	0.3	0.009	0.05
.980297		590	73.2	1.5	0.003	0.12	23.1	0.3	<1	0.3	167.5	<0.05	<0.05	0.4	0.011	0.14
.980298		580	23.7	0.3	0.003	0.03	16.05	2.7	<1	0.2	224	<0.05	<0.05	0.4	0.005	0.40
.980299		670	22.6	0.5	0.002	0.01	22.5	2.1	<1	0.2	343	<0.05	<0.05	0.4	0.006	0.17
G0557644		410	9.9	145.5	0.003	0.01	0.59	16.0	<1	3.6	168.0	1.29	<0.05	17.5	0.494	0.83
G0557645		1750	146.5	8.6	0.003	0.02	31.9	0.5	<1	0.6	819	0.17	<0.05	2.9	0.071	0.31
L842508		900	1.8	2.5	0.006	0.07	0.97	0.8	2	0.2	324	<0.05	<0.05	0.4	0.012	0.08
L842509		410	2.3	5.5	0.012	0.09	0.83	0.7	1	0.2	32.4	<0.05	<0.05	0.4	0.013	0.17





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**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	Zn	As	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	1	0.1	0.1	2	0.5	0.001	0.001	0.1
.980264		1.9	17	0.1	5.3	88	1.8			
.980265		10.6	369	0.4	34.9	2310	29.1			
.980266		3.1	54	0.1	14.0	138	9.5			
.980267		3.1	96	0.2	9.8	214	18.1			
.980268		4.1	73	0.1	23.1	78	6.3			
.980269		0.4	15	0.1	10.5	58	3.7			
.980270		0.5	41	0.1	13.9	231	7.1			
.980271		0.6	7	<0.1	11.9	17	2.3			
.980272		1.4	14	0.1	20.4	128	4.0			
.980273		0.7	12	0.1	12.6	19	3.4			
.980274		1.4	37	0.1	18.2	230	10.0			
.980275		19.5	634	0.3	72.3	7370	14.3			
.980276		2.0	34	<0.1	6.2	138	2.4			
.980277		1.6	10	<0.1	16.2	890	1.3			
.980278		2.1	8	0.2	9.3	1540	4.1			
.980279		2.5	7	0.1	2.3	27	3.1			
.980280		2.5	4	0.1	0.5	108	1.5			
.980281		8.4	94	0.3	15.2	795	42.7			
.980282		0.7	4	0.1	1.6	10	3.7			
.980283		2.9	14	0.1	2.9	75	7.1			
.980284		4.4	13	0.2	18.2	246	20.9			
.980285		3.2	4	0.2	7.5	193	7.0			
.980286		1.7	2	0.1	4.6	1210	2.0			
.980287		1.9	8	0.2	8.1	364	9.0			
.980288		1.7	2	0.1	3.9	31	3.2			
.980289		3.9	71	1.6	18.2	33	148.0			
.980290		0.7	3	<0.1	3.3	>10000	1.4	6.53		191.5
.980291		2.3	5	0.4	2.7	395	17.4			
.980292		1.7	2	0.1	2.0	162	2.7			
.980293		1.2	4	0.3	1.7	118	12.1			
.980294		1.1	3	<0.1	5.5	2780	2.6			
.980295		1.9	3	0.1	1.8	617	2.6			
.980296		1.4	1	0.2	2.3	158	2.7			
.980297		2.0	2	0.2	8.4	241	4.9			
.980298		2.0	2	0.1	6.6	321	2.8			
.980299		1.7	3	0.1	5.7	368	2.8			
G0557644		2.3	86	1.8	17.6	82	86.8			
G0557645		2.3	6	1.0	4.6	188	26.5			
L842508		2.4	40	0.1	18.3	348	10.1			
L842509		1.5	52	0.1	4.4	53	7.4			



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**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842510		0.46	<0.01	0.26	0.54	13	450	0.18	0.03	11.20	0.90	9.97	1.4	20	1.03	5.3
L842511		0.49	<0.01	0.20	0.25	7	250	0.09	0.02	15.30	1.38	5.71	1.4	11	0.14	2.2
L842512		0.22	<0.01	0.71	0.65	4.6	410	0.23	0.03	2.36	0.14	7.05	2.1	42	1.31	7.2
L842513		0.82	<0.01	0.20	0.37	22.7	170	0.19	0.02	2.36	2.93	3.83	2.3	24	1.27	4.3
L842514		0.21	<0.01	0.13	0.38	<5	410	0.10	0.02	27.6	0.25	4.19	0.9	15	0.41	3.3
L842515		0.35	<0.01	0.12	0.41	<5	100	0.15	0.01	18.20	0.14	6.14	1.0	11	0.35	3.8
L842516		0.68	<0.01	0.03	0.54	2.7	150	0.14	0.01	0.16	0.04	3.31	1.9	26	0.51	3.4
L842517		0.55	<0.01	0.05	0.28	<5	660	0.24	0.01	22.4	5.23	4.95	2.9	11	0.30	8.9
L842518		0.24	<0.01	0.34	0.46	17.1	640	0.16	0.02	0.14	0.10	3.21	1.5	35	1.31	13.0
L842519		0.29	<0.01	0.40	1.97	58.6	1560	5.15	0.02	0.43	6.33	7.50	5.5	331	1.17	246
L842520		0.48	<0.01	0.09	0.30	191	1090	0.09	0.01	20.7	6.14	2.27	5.1	7	0.44	3.7
L842521		0.39	<0.01	0.01	0.06	10	190	0.12	<0.01	36.3	0.18	1.30	0.6	4	0.10	0.7
L842522		0.29	<0.01	0.18	1.17	1150	1180	0.60	0.05	17.10	0.95	19.65	3.4	12	1.36	7.0
L842523		0.61	<0.01	0.10	0.73	645	520	0.38	0.03	17.80	0.54	12.75	2.3	8	0.88	4.8
L842524		2.22	<0.01	0.09	0.40	150	460	0.14	0.02	18.65	0.23	9.26	2.3	6	0.20	3.1
L842525		0.63	<0.01	0.02	0.11	45	130	<0.05	0.01	20.6	0.02	3.65	1.0	2	<0.05	0.8
L842526		0.74	<0.01	0.05	0.12	38	350	0.08	0.01	20.3	1.04	3.40	0.9	3	<0.05	1.3
L842527		0.84	<0.01	0.05	1.32	958	1310	0.12	0.05	1.98	1.05	20.6	1.7	10	0.43	7.3
L842528		0.27	<0.01	0.25	6.96	2500	>10000	0.28	0.44	0.51	0.41	199.0	19.7	55	0.35	40.3
L842529		0.23	<0.01	0.02	0.44	60	160	0.07	0.02	21.1	0.03	14.20	0.8	<1	0.18	2.7
L842530		0.30	<0.01	0.01	0.17	116	350	<0.05	0.01	18.10	0.10	2.23	0.3	<1	0.07	1.0
L842531		0.47	<0.01	0.01	0.10	41.7	3030	0.05	0.01	4.17	0.15	1.14	0.3	<1	0.05	0.7
L842532		1.53	<0.01	0.01	0.44	765	560	0.08	0.01	13.50	0.78	4.49	0.9	4	0.12	0.8
L842533		0.34	<0.01	0.04	2.75	35.4	270	0.21	0.02	4.96	0.09	19.45	1.6	10	0.47	1.1
L842534		0.35	<0.01	0.03	1.23	39.1	100	0.07	0.02	1.16	3.80	5.83	1.4	18	0.12	1.3
L842535		0.36	<0.01	0.01	0.23	218	640	0.10	<0.01	9.30	0.18	2.31	0.9	4	0.21	0.6
L842536		0.12	<0.01	0.48	1.54	>10000	1150	0.12	0.09	0.44	5.40	34.2	26.0	21	0.97	23.8
L842537		0.08	<0.01	0.56	0.34	1760	310	0.05	0.07	0.41	0.56	9.24	20.1	4	0.07	16.3
L842538		0.26	<0.01	<0.01	0.12	301	140	0.05	<0.01	17.70	0.46	2.10	2.9	2	<0.05	1.1
L842539		1.51	<0.01	<0.01	0.09	181	150	<0.05	<0.01	18.50	0.21	1.92	1.7	2	<0.05	0.5
L842540		0.36	<0.01	0.02	0.43	189.5	580	0.08	0.02	0.25	0.36	9.66	0.7	11	0.42	1.4
L842541		0.63	<0.01	0.01	0.21	220	130	0.07	0.01	15.15	0.04	2.93	1.4	4	0.11	1.0
L842542		0.31	<0.01	0.04	0.56	317	240	0.07	0.02	3.67	0.04	8.29	1.3	8	0.31	1.4
L842543		0.54	<0.01	0.04	0.26	2150	1480	0.08	0.01	17.25	5.27	9.71	2.1	5	0.06	3.1
I357912		0.87	<0.01	0.04	5.85	25.2	210	0.90	0.26	0.52	0.09	58.5	14.6	43	1.93	60.9
I357913		0.58	<0.01	0.02	1.24	19.1	110	0.27	0.05	0.26	0.28	19.35	6.3	26	0.53	7.5



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Project: ATAC- Regional Area D,F

**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842510		0.64	1.89	0.13	0.2	0.08	0.005	0.18	10.1	4.8	6.17	143	0.77	0.01	0.8	6.3
L842511		0.39	1.24	0.17	0.1	0.04	0.007	0.02	7.7	3.0	9.18	112	0.44	0.01	0.5	5.4
L842512		3.42	1.94	0.12	0.3	0.08	0.005	0.22	4.6	20.9	0.49	82	0.74	0.01	0.9	17.0
L842513		0.83	1.32	0.09	0.2	0.03	0.006	0.14	3.0	5.6	1.19	97	0.57	0.01	1.0	12.1
L842514		0.42	1.04	0.09	0.1	0.06	<0.005	0.09	7.0	2.5	0.25	70	0.64	0.07	0.7	6.1
L842515		2.52	1.03	0.10	0.1	0.05	<0.005	0.05	14.3	18.5	2.69	284	0.73	0.02	0.4	7.2
L842516		0.58	1.51	0.07	0.2	0.03	<0.005	0.09	3.1	12.1	0.03	69	0.41	0.04	0.3	6.3
L842517		0.71	0.48	0.09	0.1	0.02	<0.005	0.04	11.0	4.3	0.14	134	0.65	0.01	0.4	15.7
L842518		2.38	2.12	0.08	0.3	0.07	0.015	0.17	2.4	2.8	0.04	40	2.11	0.01	0.8	20.3
L842519		14.50	4.33	0.32	0.4	0.07	0.627	0.13	4.0	9.2	0.02	92	5.04	0.01	0.9	107.0
L842520		5.80	0.80	0.13	0.1	0.73	<0.005	0.10	1.3	1.0	7.51	285	47.6	0.02	0.6	246
L842521		0.12	0.21	0.09	<0.1	2.39	<0.005	0.01	1.4	0.2	0.11	70	3.24	<0.01	0.3	6.6
L842522		2.63	3.65	0.11	0.6	5.96	0.020	0.25	11.1	29.0	10.25	1180	0.45	0.04	1.9	10.6
L842523		1.64	2.24	0.09	0.3	3.46	0.009	0.18	7.2	10.0	10.60	982	0.25	0.03	1.3	5.7
L842524		1.15	1.13	0.10	0.2	2.70	<0.005	0.08	5.4	11.3	11.00	1110	0.17	0.04	0.9	4.9
L842525		0.48	0.44	0.25	<0.1	0.61	<0.005	0.01	2.0	14.1	12.05	614	0.08	0.01	0.2	2.0
L842526		0.38	0.97	0.34	<0.1	4.10	0.005	0.02	2.1	7.5	11.70	519	0.09	0.01	0.3	2.0
L842527		1.27	3.97	0.16	0.4	12.5	0.006	0.07	12.9	25.8	1.05	200	0.16	0.01	1.2	8.3
L842528		7.00	16.15	0.29	4.4	46.9	0.015	0.20	136.0	423	0.16	176	0.98	0.03	6.9	33.5
L842529		1.31	1.04	0.11	0.2	1.33	<0.005	0.08	10.7	15.2	11.95	1560	0.09	0.01	0.6	1.7
L842530		0.34	0.28	0.12	<0.1	3.97	<0.005	<0.01	1.2	24.5	10.65	341	0.08	0.01	0.1	0.9
L842531		0.16	0.18	0.10	0.1	7.24	<0.005	<0.01	0.6	10.9	2.35	142	0.08	0.01	0.1	0.7
L842532		0.51	0.68	0.14	0.1	2.55	<0.005	0.03	2.1	31.2	8.04	426	0.22	0.01	0.3	4.8
L842533		1.15	3.69	0.12	1.2	0.55	0.010	0.27	9.3	53.1	2.75	492	0.19	0.02	2.0	5.4
L842534		0.83	3.58	0.08	0.5	5.26	0.015	0.06	2.8	93.3	0.60	679	0.20	0.01	0.8	3.3
L842535		0.43	0.42	0.11	0.1	4.88	<0.005	0.01	1.0	27.4	5.47	348	0.12	0.01	0.2	1.9
L842536		44.7	3.92	0.92	1.9	67.1	0.031	0.20	18.9	117.5	0.19	2020	1.04	0.02	3.6	55.1
L842537		>50	0.92	0.96	0.1	100	0.007	0.03	6.2	62.9	0.26	792	0.83	0.01	1.1	17.1
L842538		0.71	0.26	0.05	<0.1	2.15	<0.005	<0.01	0.9	21.9	10.75	527	0.19	0.01	0.2	3.7
L842539		0.48	0.23	0.13	<0.1	1.31	<0.005	<0.01	0.8	10.5	11.25	366	0.13	0.01	0.2	3.4
L842540		0.66	1.03	0.06	0.2	7.80	<0.005	0.06	5.4	43.0	0.13	82	0.18	0.01	0.5	2.9
L842541		0.48	0.56	0.13	0.1	3.36	<0.005	0.04	1.5	10.8	9.07	345	0.14	0.01	0.3	3.8
L842542		0.61	1.26	0.07	0.4	4.84	<0.005	0.10	4.4	38.2	2.05	184	0.15	0.01	0.7	7.9
L842543		2.23	0.72	0.08	0.1	11.10	0.007	0.01	5.9	2.9	10.35	993	0.10	0.02	0.4	11.2
I357912		3.43	9.86	0.16	1.7	0.13	0.031	0.65	25.8	115.0	0.16	243	0.33	0.02	7.4	32.6
I357913		2.02	2.46	0.08	1.1	0.14	0.010	0.18	9.1	5.3	0.14	963	0.42	0.54	1.9	10.2



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**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842510		4190	13.0	8.7	<0.002	0.03	1.55	1.6	1	0.2	59.9	<0.05	0.05	0.8	0.021	0.29
L842511		180	2.1	1.2	<0.002	0.02	0.59	1.0	1	<0.2	113.0	<0.05	<0.05	0.6	0.008	0.04
L842512		250	3.7	12.5	<0.002	0.02	0.28	4.5	2	0.2	107.5	0.05	<0.05	0.8	0.025	0.08
L842513		240	233	7.8	<0.002	0.04	2.39	1.9	2	0.2	14.0	0.05	<0.05	1.1	0.020	0.19
L842514		310	2.1	5.1	0.003	0.14	0.12	1.3	2	<0.2	226	<0.05	<0.05	0.5	0.015	0.05
L842515		910	1.8	3.4	0.003	0.04	0.15	1.1	1	<0.2	412	<0.05	<0.05	0.4	0.010	0.05
L842516		140	1.4	6.1	<0.002	<0.01	0.15	0.8	<1	0.2	6.4	<0.05	<0.05	0.3	0.007	0.03
L842517		440	3.4	2.4	<0.002	0.01	0.36	1.7	1	<0.2	348	<0.05	<0.05	0.4	0.007	0.03
L842518		900	4.8	8.7	<0.002	0.05	1.35	2.1	1	0.3	24.0	0.05	<0.05	1.5	0.019	0.18
L842519		>10000	33.2	5.2	0.002	0.09	11.35	87.3	4	0.2	93.6	0.05	0.05	21.8	0.015	0.23
L842520		1050	0.9	4.0	<0.002	0.04	11.60	1.7	2	<0.2	49.2	<0.05	<0.05	0.5	0.012	6.77
L842521		150	0.7	0.8	0.002	<0.01	0.95	0.5	2	<0.2	28.1	<0.05	<0.05	<0.2	<0.005	0.09
L842522		1370	48.4	13.4	<0.002	0.01	37.6	2.8	1	0.5	796	0.12	<0.05	2.2	0.040	1.43
L842523		640	24.0	9.4	<0.002	0.01	17.25	1.9	1	0.3	352	0.08	<0.05	1.4	0.027	1.20
L842524		470	20.8	3.9	<0.002	0.01	4.02	1.4	1	<0.2	256	0.05	<0.05	0.8	0.018	0.90
L842525		190	7.8	0.5	<0.002	0.01	0.83	0.8	1	<0.2	136.5	<0.05	<0.05	0.2	<0.005	0.06
L842526		360	8.1	0.6	<0.002	0.01	0.81	0.8	1	<0.2	183.0	<0.05	<0.05	0.2	<0.005	0.07
L842527		1010	75.2	3.1	<0.002	0.01	16.15	0.8	4	0.3	543	0.07	<0.05	2.0	0.024	0.78
L842528		8170	775	7.1	0.007	0.06	52.2	4.3	1	1.7	3290	0.45	0.25	19.9	0.195	1.44
L842529		360	13.8	2.8	0.005	0.02	1.52	1.0	<1	0.5	90.7	<0.05	<0.05	0.7	0.012	0.27
L842530		280	3.8	0.4	0.005	0.01	2.71	0.7	<1	0.3	140.5	<0.05	<0.05	0.2	<0.005	0.10
L842531		100	1.1	0.3	0.004	0.13	2.17	0.3	<1	0.4	53.4	<0.05	<0.05	0.2	<0.005	0.04
L842532		250	12.2	1.1	<0.002	0.02	11.40	1.3	1	<0.2	135.5	<0.05	<0.05	0.5	0.007	0.12
L842533		70	30.4	8.2	<0.002	0.04	1.12	2.2	1	0.4	29.5	0.16	<0.05	3.2	0.053	0.12
L842534		160	79.5	2.3	<0.002	0.02	1.90	1.0	1	0.4	18.3	0.06	<0.05	1.3	0.021	0.08
L842535		560	8.2	0.4	<0.002	0.01	4.15	1.2	1	<0.2	378	<0.05	<0.05	0.2	<0.005	0.49
L842536		980	755	7.0	<0.002	0.08	189.5	3.3	2	1.0	402	0.23	0.08	5.5	0.079	9.74
L842537		260	342	1.0	<0.002	0.07	77.3	0.5	1	0.3	80.6	<0.05	0.16	0.4	0.006	4.13
L842538		300	7.5	0.2	<0.002	0.01	9.70	0.9	1	<0.2	87.4	<0.05	<0.05	0.2	<0.005	0.64
L842539		250	3.2	0.2	<0.002	0.01	4.42	1.2	1	<0.2	101.5	<0.05	<0.05	<0.2	<0.005	0.30
L842540		330	57.9	2.6	<0.002	0.01	74.1	0.4	<1	0.2	142.5	<0.05	<0.05	0.8	0.012	1.30
L842541		170	9.2	1.5	<0.002	0.01	12.40	1.2	1	<0.2	82.9	<0.05	<0.05	0.3	0.007	0.37
L842542		170	51.5	3.4	<0.002	0.01	29.8	0.7	1	0.2	69.3	0.05	<0.05	0.9	0.018	0.57
L842543		1270	34.6	0.3	<0.002	0.01	39.7	3.2	1	<0.2	640	<0.05	<0.05	0.4	<0.005	0.44
I357912		290	12.5	29.4	<0.002	<0.01	0.50	8.5	1	1.0	94.6	0.54	0.05	8.7	0.206	0.16
I357913		130	5.6	10.8	<0.002	<0.01	0.48	3.0	1	0.4	25.7	0.15	<0.05	4.0	0.102	0.06





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**CERTIFICATE OF ANALYSIS WH12145885**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42
	Analyte	U	V	W	Y	Zn	Zn	As	Hg
	Units	ppm	ppm	ppm	ppm	ppm	%	%	ppm
LOR		0.1	1	0.1	0.1	2	0.001	0.001	0.1
L842510		7.2	31	0.2	19.5	102	7.4		
L842511		0.4	13	0.1	12.6	74	4.0		
L842512		0.5	21	0.1	6.7	58	10.4		
L842513		0.9	19	0.1	5.4	322	7.1		
L842514		0.5	10	0.1	7.2	25	5.4		
L842515		1.2	10	0.1	14.8	22	4.7		
L842516		0.2	6	0.1	2.1	24	7.8		
L842517		0.6	5	0.1	13.9	439	5.2		
L842518		1.8	36	0.1	3.2	60	13.3		
L842519		58.7	245	0.2	34.7	749	21.8		
L842520		4.8	42	0.1	5.6	577	4.0		
L842521		5.9	13	<0.1	5.6	11	2.2		
L842522		4.0	15	1.0	11.6	667	31.1		
L842523		2.4	10	0.4	7.2	366	16.4		
L842524		1.6	6	0.2	5.9	178	6.7		
L842525		0.9	2	<0.1	3.5	61	1.1		
L842526		1.1	2	0.1	3.3	229	1.7		
L842527		3.4	5	0.5	3.9	902	14.0		
L842528		19.6	26	5.1	23.3	2770	162.5		
L842529		1.7	4	0.1	5.1	39	7.2		
L842530		1.3	2	0.1	1.4	73	2.2		
L842531		0.6	1	0.1	0.5	43	1.5		
L842532		2.1	2	0.1	2.3	305	5.2		
L842533		0.6	7	0.4	4.7	32	40.5		
L842534		0.7	6	0.2	2.3	1360	17.9		
L842535		0.9	2	0.2	2.2	137	3.1		
L842536		7.0	24	1.4	11.0	5100	64.2	1.420	
L842537		5.1	4	0.1	5.0	1550	3.8		138.0
L842538		1.5	2	0.1	2.3	247	2.2		
L842539		1.2	2	0.1	1.6	147	1.6		
L842540		1.6	3	0.2	1.5	65	7.0		
L842541		1.7	2	0.1	2.2	238	4.3		
L842542		1.6	2	0.3	2.5	232	12.1		
L842543		2.1	4	0.1	6.2	682	3.0		
I357912		1.4	47	1.6	12.1	37	52.4		
I357913		0.6	27	0.3	5.8	47	35.5		



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**CERTIFICATE OF ANALYSIS WH12145885**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12147401**

Project: ATAC- Regional Area  
 P.O. No.: R8  
 This report is for 152 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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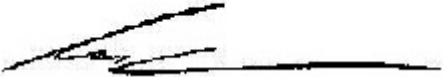
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Pb- VOL70	Pb by Titration	
Zn- VOL50	Zn by titration	
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 20- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area

**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
G0557646		0.60	<0.01	1.23	3.77	42.4	1140	1.31	0.18	0.08	0.51	35.9	3.0	146	7.37	55.4
G0557647		0.78	<0.01	1.90	3.89	40.4	2090	1.33	0.18	0.13	0.92	38.0	5.1	154	7.56	50.7
G0557648		1.00	<0.01	2.28	2.55	>10000	110	9.84	0.05	0.29	227	29.6	123.0	43	2.47	665
G0557649		0.87	<0.01	2.00	2.75	>10000	120	8.86	0.06	0.20	118.5	23.5	176.0	51	1.99	561
G0557650		0.54	0.03	1.09	3.15	9160	500	2.51	0.07	0.35	58.7	25.3	11.5	132	3.64	265
L842544		0.81	<0.01	11.15	0.21	348	30	0.19	0.04	6.71	>1000	1.25	12.0	1	0.15	518
L842545		0.36	<0.01	9.92	0.28	136.5	440	0.14	0.06	2.25	109.5	1.55	2.5	8	0.14	164.5
L842546		0.25	<0.01	0.18	1.37	34	550	0.29	0.03	22.0	17.45	21.4	2.4	12	1.36	9.4
L842547		0.76	<0.01	0.16	0.16	16.4	740	0.12	0.03	3.05	1.19	1.90	1.9	25	0.31	4.2
L842548		0.48	<0.01	0.04	0.80	16.0	80	0.16	0.03	0.15	1.25	13.35	3.3	13	0.23	3.1
L842549		0.09	<0.01	4.65	0.38	20.1	320	0.30	0.03	1.47	62.3	4.38	1.8	6	0.17	40.4
L842550		0.18	<0.01	7.52	0.52	24.1	990	0.24	0.05	0.20	87.1	5.68	2.1	16	0.15	63.3
L842551		0.15	<0.01	15.55	0.46	137.0	340	0.19	0.03	3.45	308	4.05	4.6	7	0.32	506
L842552		0.34	<0.01	27.5	0.53	87.0	3450	0.22	0.05	0.12	94.1	5.43	1.3	12	0.25	226
L842553		1.03	<0.01	57.7	0.23	97.5	20	0.11	0.05	1.07	>1000	1.72	4.6	3	0.13	563
L842554		0.15	<0.01	19.35	0.26	29.4	200	0.14	0.03	0.25	335	1.01	1.6	9	0.11	150.5
L842555		0.49	<0.01	0.87	2.14	20.1	190	0.21	0.04	5.32	49.3	21.3	3.5	14	0.90	15.8
L842556		0.97	<0.01	0.16	0.64	55	1050	0.07	0.02	19.60	1.36	8.88	1.1	3	0.21	3.1
L842557		0.66	<0.01	0.05	0.16	6	40	0.07	0.01	34.4	0.34	7.33	0.8	1	0.07	1.9
L842558		0.59	<0.01	6.46	1.42	73	50	0.28	0.15	11.50	>1000	15.10	6.6	9	0.95	416
L842559		0.47	<0.01	0.11	0.20	13	270	0.13	0.02	10.05	5.05	2.88	3.2	6	0.28	6.0
L842560		0.35	<0.01	0.15	0.38	72	370	0.20	0.03	11.85	3.10	5.97	4.2	5	0.22	795
L842561		0.33	<0.01	0.13	2.67	17.1	350	0.59	0.07	0.28	6.80	43.9	4.8	27	1.05	13.6
L842562		0.55	0.01	61.6	1.15	119.5	40	0.27	0.08	3.37	985	10.40	2.9	13	0.64	580
L842563		0.97	<0.01	47.5	0.13	98.5	40	0.06	0.01	9.40	>1000	1.58	2.0	1	0.13	484
L842564		0.48	<0.01	23.2	0.82	51.2	180	0.23	0.12	3.20	513	8.38	2.1	13	0.56	98.4
L842565		1.88	<0.01	55.9	0.10	101.0	50	0.05	0.03	6.44	>1000	1.17	0.6	2	0.20	355
L842566		0.38	<0.01	0.19	0.33	71	30	0.18	0.02	37.1	7.84	5.36	1.1	3	0.23	4.3
L842567		0.24	<0.01	0.31	0.07	54	50	0.07	0.02	20.5	6.98	2.15	2.6	1	0.05	5.2
L842568		0.31	<0.01	0.05	0.14	22.2	30	0.08	0.01	4.94	0.70	1.49	0.9	5	0.16	1.8
L842569		0.56	<0.01	0.09	0.23	105	420	0.53	0.01	15.45	0.86	2.49	7.9	<1	0.09	2.4
L842570		0.47	<0.01	0.05	0.70	7	410	0.28	0.03	11.20	0.36	28.0	7.8	12	0.63	3.4
L842571		0.71	<0.01	0.05	1.11	14	110	0.29	0.04	31.8	0.22	20.5	4.2	8	1.72	5.6
L842572		1.49	<0.01	0.02	8.67	11.8	690	2.44	0.76	0.17	0.14	96.7	12.7	79	7.15	96.4
L842573		0.41	<0.01	0.11	4.09	8.6	460	0.73	0.06	0.47	1.71	76.1	5.0	21	2.22	4.9
L842574		0.38	<0.01	0.02	2.82	3.9	100	0.56	0.38	0.05	0.12	18.60	6.9	19	0.58	3.0
L842575		0.61	<0.01	0.05	4.40	9.1	330	0.52	0.06	0.77	0.31	59.1	8.9	27	3.64	8.3
L842576		0.94	<0.01	0.01	6.27	19.3	560	1.35	0.21	0.30	0.06	82.2	15.8	52	6.11	16.3
L842577		0.77	<0.01	0.01	0.97	11	130	0.19	0.02	23.4	0.06	24.8	3.3	2	0.17	4.5
L842578		0.33	<0.01	0.54	0.34	180.0	440	0.45	0.05	4.84	12.65	13.35	4.0	5	0.54	22.8





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**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
G0557646		3.72	9.20	0.15	1.6	0.08	0.044	0.98	29.4	15.7	0.22	57	7.15	0.18	7.3	73.8
G0557647		3.15	9.70	0.16	1.7	0.09	0.044	1.02	30.1	15.2	0.21	81	7.32	0.20	7.6	105.5
G0557648		37.6	2.85	0.92	0.5	12.1	0.050	0.22	28.0	5.4	0.06	1600	80.9	0.01	1.5	1590
G0557649		38.6	2.91	1.12	0.5	8.08	0.049	0.25	25.1	4.5	0.06	2170	72.6	0.01	1.5	1560
G0557650		6.18	3.95	0.21	0.7	1.78	0.037	0.45	29.6	7.5	0.10	126	23.7	0.01	2.5	208
L842544		1.15	35.7	0.14	0.1	>100	0.028	0.06	0.5	4.1	0.08	213	1.18	<0.01	0.2	21.1
L842545		0.87	13.50	0.05	0.1	>100	0.036	0.03	0.8	34.9	0.02	176	0.44	0.01	0.2	13.3
L842546		0.87	3.13	0.07	1.3	4.42	0.010	0.55	9.8	5.6	1.49	274	0.32	0.03	2.5	6.4
L842547		0.51	0.45	<0.05	0.2	1.51	<0.005	0.03	2.4	2.1	0.23	174	1.06	0.01	0.4	8.5
L842548		2.88	1.87	0.08	0.6	0.38	0.016	0.10	6.3	59.8	0.10	511	0.36	0.01	0.9	6.4
L842549		0.63	1.15	0.05	0.2	50.8	<0.005	0.07	2.2	63.9	0.12	128	0.23	0.01	0.5	5.7
L842550		1.12	5.19	0.05	0.3	>100	0.007	0.07	2.9	50.9	0.06	122	0.48	0.01	0.7	5.6
L842551		1.26	21.3	0.05	0.1	>100	0.152	0.11	2.0	41.0	0.07	292	0.32	0.02	0.5	17.1
L842552		1.30	6.78	<0.05	0.2	>100	0.008	0.12	2.7	46.4	0.03	138	0.35	0.03	0.6	3.2
L842553		0.85	32.2	<0.05	0.1	>100	0.160	0.05	0.7	28.8	0.02	77	0.32	0.01	0.2	8.3
L842554		0.83	2.92	<0.05	0.1	>100	0.009	0.05	0.5	31.7	0.06	139	0.29	0.01	0.2	5.4
L842555		0.83	7.98	0.06	1.3	84.6	0.145	0.39	10.5	24.5	0.35	394	0.20	0.02	2.4	7.8
L842556		0.35	1.29	0.06	0.1	3.38	0.005	0.07	6.4	70.9	9.47	337	0.10	0.02	0.5	2.5
L842557		0.46	0.42	0.05	0.1	1.11	0.022	0.03	2.7	13.1	0.16	210	0.11	<0.01	0.4	3.1
L842558		2.31	39.0	0.36	0.6	>100	0.106	0.46	7.8	8.3	1.37	417	0.40	0.03	2.0	8.5
L842559		0.45	0.81	<0.05	0.1	6.10	<0.005	0.04	3.1	2.6	0.42	1600	1.68	0.02	0.3	4.1
L842560		4.77	1.05	0.09	0.3	1.20	0.022	0.10	2.5	10.8	2.37	1040	0.20	0.01	0.6	21.7
L842561		1.35	6.28	0.08	2.2	6.80	0.023	0.81	20.1	29.0	0.08	204	0.27	0.05	3.7	12.4
L842562		2.44	88.2	0.13	0.5	>100	0.618	0.45	5.1	4.4	0.98	278	0.16	0.01	1.3	5.5
L842563		1.43	58.3	0.57	0.1	>100	0.492	0.04	0.7	1.6	1.83	457	0.16	<0.01	0.2	2.5
L842564		1.87	14.10	0.26	0.4	>100	0.090	0.29	4.7	9.6	0.75	371	0.87	0.01	1.0	5.8
L842565		1.64	31.6	14.75	<0.1	>100	0.327	0.03	0.5	1.7	2.37	542	0.15	<0.01	0.1	1.6
L842566		0.31	0.89	<0.05	0.1	6.90	0.005	0.06	4.7	2.1	0.62	151	0.28	<0.01	0.9	42.6
L842567		1.20	0.46	<0.05	<0.1	10.30	<0.005	0.01	1.1	2.2	11.95	459	2.66	0.02	0.2	1.3
L842568		0.60	0.50	<0.05	0.1	1.85	<0.005	0.02	0.7	4.4	2.00	215	0.14	0.01	0.2	3.3
L842569		11.55	0.54	0.16	0.1	1.10	<0.005	0.01	1.0	10.1	9.74	1610	0.36	0.01	0.4	12.5
L842570		5.75	1.90	0.11	0.4	0.63	0.006	0.31	11.4	9.6	2.50	2570	0.15	0.01	1.7	12.4
L842571		0.94	2.73	0.05	0.4	0.60	0.011	0.42	9.6	6.6	0.28	101	0.19	0.02	2.4	9.0
L842572		4.21	23.7	0.16	2.6	0.34	0.092	4.22	42.4	58.2	0.59	86	2.07	0.06	17.5	28.9
L842573		1.23	8.47	0.10	5.4	2.84	0.015	1.98	32.0	13.3	0.32	538	0.34	0.02	6.2	6.2
L842574		2.05	4.57	0.07	0.4	0.53	0.012	0.41	9.5	72.3	0.07	68	0.21	0.01	2.5	13.6
L842575		1.96	10.50	0.11	2.9	0.92	0.025	2.10	26.6	27.2	0.23	1040	0.32	0.03	5.8	12.2
L842576		2.92	16.70	0.14	3.1	0.31	0.038	2.92	35.5	39.8	0.40	964	0.81	0.08	9.1	19.7
L842577		1.04	1.06	0.06	0.2	0.23	0.035	0.04	10.2	19.8	1.28	2350	0.14	0.02	0.7	4.2
L842578		1.75	4.63	0.10	0.1	>100	0.041	0.04	6.7	16.2	2.56	481	0.40	0.01	1.0	7.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
G0557646		1230	11.3	74.3	0.002	0.07	2.65	8.0	10	1.1	84.8	0.46	0.18	5.6	0.231	0.55
G0557647		1110	10.8	75.3	0.002	0.08	2.53	9.2	8	1.2	113.0	0.48	0.15	5.9	0.239	0.56
G0557648		950	85.9	11.9	0.008	0.03	43.2	5.2	19	0.3	35.9	0.13	0.15	1.2	0.030	22.1
G0557649		960	58.0	9.8	0.004	0.02	22.6	5.3	14	0.2	29.8	0.14	<0.05	1.5	0.033	15.55
G0557650		2850	10.4	25.7	0.010	0.09	23.1	2.5	4	0.5	478	0.18	0.19	1.9	0.074	13.65
L842544		260	9270	2.6	<0.002	>10.0	299	0.7	22	0.2	40.8	<0.05	<0.05	<0.2	0.009	0.28
L842545		230	>10000	1.5	<0.002	0.64	121.5	0.6	3	0.3	74.4	<0.05	<0.05	0.2	0.007	0.17
L842546		250	137.0	23.7	<0.002	0.21	4.08	2.0	2	0.4	529	0.18	<0.05	3.0	0.064	0.13
L842547		60	86.6	1.9	0.003	0.05	1.24	0.4	1	0.2	36.1	<0.05	<0.05	0.2	0.008	0.03
L842548		70	13.4	5.0	<0.002	0.02	0.46	1.5	1	0.3	10.1	0.07	<0.05	3.2	0.028	0.04
L842549		390	5490	3.3	<0.002	0.18	49.5	1.4	2	0.2	32.8	<0.05	<0.05	0.6	0.019	0.05
L842550		420	9890	3.5	<0.002	0.79	64.5	1.0	2	0.3	60.1	0.05	<0.05	0.8	0.029	0.05
L842551		210	8700	5.1	<0.002	1.04	294	2.4	8	1.0	27.6	<0.05	<0.05	0.4	0.017	0.18
L842552		370	>10000	5.7	<0.002	0.19	250	0.9	3	0.4	91.1	<0.05	<0.05	0.6	0.025	0.11
L842553		160	>10000	2.3	<0.002	>10.0	647	0.5	16	1.3	17.8	<0.05	<0.05	<0.2	0.009	0.12
L842554		200	>10000	2.2	<0.002	0.89	124.5	0.6	5	0.2	183.5	<0.05	<0.05	<0.2	0.008	0.08
L842555		370	1115	14.1	<0.002	0.43	15.45	2.0	2	1.3	66.1	0.21	<0.05	3.7	0.073	0.28
L842556		280	144.5	2.9	<0.002	0.02	2.78	1.0	1	0.2	161.0	<0.05	<0.05	0.7	0.008	0.41
L842557		60	20.1	1.7	<0.002	<0.01	0.55	0.5	1	<0.2	957	<0.05	<0.05	0.3	<0.005	0.02
L842558		400	1260	22.7	<0.002	>10.0	174.5	1.8	16	6.0	119.5	0.14	0.05	2.4	0.055	0.12
L842559		430	21.8	2.5	<0.002	0.05	1.39	0.6	1	0.2	61.3	<0.05	<0.05	0.3	0.009	0.04
L842560		320	41.3	4.5	<0.002	0.12	4.21	2.3	1	0.8	152.5	<0.05	<0.05	0.6	0.022	0.07
L842561		130	50.9	38.6	<0.002	0.05	2.18	3.8	1	0.8	35.2	0.33	<0.05	8.2	0.155	0.17
L842562		200	>10000	18.9	<0.002	>10.0	248	2.8	15	7.7	56.0	0.09	0.05	1.2	0.053	1.71
L842563		260	468	2.1	<0.002	>10.0	184.0	2.2	18	6.0	54.4	<0.05	<0.05	0.3	0.005	0.69
L842564		680	>10000	10.1	0.002	7.20	73.6	2.8	25	1.4	38.4	0.07	<0.05	1.3	0.037	0.70
L842565		170	960	1.5	<0.002	>10.0	122.0	0.7	19	4.0	59.5	<0.05	<0.05	<0.2	<0.005	1.77
L842566		230	89.2	3.4	<0.002	0.04	7.73	1.4	1	<0.2	20.1	<0.05	<0.05	0.5	0.019	0.08
L842567		570	53.7	0.6	<0.002	0.09	5.38	0.7	2	<0.2	83.9	<0.05	0.05	<0.2	<0.005	0.40
L842568		90	23.2	1.5	<0.002	0.01	2.01	0.4	1	<0.2	17.4	<0.05	<0.05	0.2	0.006	0.18
L842569		370	8.1	1.1	<0.002	0.02	5.31	0.9	1	<0.2	140.5	<0.05	<0.05	<0.2	<0.005	2.09
L842570		360	10.6	16.1	<0.002	0.01	0.24	1.3	1	0.3	205	0.09	<0.05	1.5	0.037	0.06
L842571		290	7.6	25.1	<0.002	0.03	0.89	2.0	1	0.4	1595	0.13	<0.05	1.9	0.053	0.18
L842572		420	13.2	228	<0.002	0.01	1.20	16.1	1	3.4	359	1.08	0.07	12.8	0.454	0.67
L842573		360	25.6	83.3	<0.002	0.03	0.61	3.4	1	1.2	167.5	0.56	<0.05	20.0	0.177	0.36
L842574		200	18.7	20.8	<0.002	<0.01	0.28	2.8	1	0.6	242	0.19	<0.05	3.1	0.077	0.08
L842575		190	14.5	79.0	<0.002	0.02	0.39	5.1	1	1.1	61.1	0.43	<0.05	14.4	0.175	0.29
L842576		330	24.2	110.5	<0.002	0.01	0.69	9.7	1	1.8	71.2	0.81	<0.05	17.5	0.305	0.57
L842577		290	7.8	1.7	<0.002	0.01	0.31	1.9	1	<0.2	666	<0.05	<0.05	1.0	0.018	<0.02
L842578		1410	719	3.9	0.002	0.05	14.65	2.8	2	0.5	143.5	0.08	<0.05	1.1	0.009	0.36



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**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42	Pb- VOL70	Zn- VOL50
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1	0.01	0.01
G0557646		4.0	261	0.9	19.9	261	59.1							
G0557647		3.9	241	1.1	30.8	305	64.0							
G0557648		52.5	6570	2.6	402	>10000	14.1			3.22	2.70			
G0557649		63.3	4300	2.2	370	>10000	13.5			3.28				
G0557650		76.0	2230	1.1	105.5	1420	28.4							
L842544		1.6	65	0.1	8.9	>10000	3.3			>30.0		429		38.01
L842545		1.0	20	0.1	3.0	>10000	2.4	1.590	4.05			217		
L842546		3.5	19	0.3	11.0	3620	50.8							
L842547		0.7	15	0.1	2.9	350	5.7							
L842548		0.6	7	0.1	4.6	275	22.8							
L842549		1.6	7	0.1	3.8	>10000	5.9			1.825				
L842550		1.3	11	0.2	2.5	>10000	9.9			2.81		165.5		
L842551		1.1	16	0.1	6.7	>10000	4.8			12.85		750		
L842552		0.9	8	0.2	3.2	>10000	7.2	2.74	4.22			752		
L842553		0.7	3	0.1	2.0	>10000	2.4	5.83	29.8			1360		
L842554		0.5	4	0.1	2.4	>10000	2.0	1.960	8.92			390		
L842555		1.9	11	0.5	7.0	>10000	47.2		1.650					
L842556		1.5	4	0.1	10.3	426	5.3							
L842557		0.7	4	0.1	10.7	128	2.4							
L842558		2.7	15	0.3	16.2	>10000	22.1			25.1		1035		
L842559		0.8	10	0.1	6.8	823	4.7							
L842560		1.0	12	0.2	11.8	713	9.1							
L842561		1.2	23	0.4	9.1	1370	73.4							
L842562		1.3	19	0.3	6.1	>10000	17.2	1.445	23.1			1790		
L842563		2.1	13	0.1	5.9	>10000	1.9		28.1			1860		
L842564		3.3	22	0.3	6.7	>10000	11.8	2.13	14.05			1200		
L842565		1.9	11	<0.1	3.4	>10000	1.2		>30.0			2120		31.66
L842566		20.1	17	0.5	14.4	1110	6.9							
L842567		3.3	5	0.1	3.5	1860	1.2							
L842568		1.3	3	0.1	1.3	253	1.9							
L842569		4.3	5	0.1	19.2	3850	9.9							
L842570		1.3	23	0.2	10.6	184	16.6							
L842571		1.8	13	0.2	9.4	111	20.1							
L842572		3.5	132	2.0	20.9	103	104.5							
L842573		2.4	17	0.6	19.2	416	204							
L842574		0.5	18	0.4	3.6	63	15.7							
L842575		1.7	27	0.4	14.2	123	120.0							
L842576		2.7	62	1.1	14.5	64	102.5							
L842577		0.7	5	0.1	16.3	30	9.0							
L842578		3.6	3	1.0	11.3	>10000	5.6			1.420		119.5		



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Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842579		0.27	<0.01	0.17	0.33	12.5	280	0.22	0.24	1.32	1.31	5.75	3.8	18	0.40	5.0
L842580		0.94	<0.01	0.04	2.18	7.7	160	0.57	0.13	2.65	0.34	30.8	2.9	18	2.21	7.0
L842581		0.26	<0.01	0.01	0.92	12	100	0.39	0.04	30.9	0.08	19.00	2.4	10	0.94	4.5
L842582		0.44	<0.01	0.04	0.10	8	250	<0.05	0.09	17.60	2.51	1.91	1.6	1	0.23	2.2
L842583		0.35	<0.01	0.38	0.07	3.1	3460	<0.05	<0.01	0.49	0.21	0.84	0.2	<1	0.06	1.4
L842584		0.44	<0.01	13.30	0.74	14.9	1050	0.18	0.12	0.17	169.0	13.25	6.6	9	0.76	10.2
L842585		0.26	<0.01	16.35	0.40	7.8	730	0.12	0.02	0.10	182.5	4.73	0.5	6	0.22	30.0
L842586		0.05	<0.01	5.47	0.12	734	3130	0.11	0.12	0.20	29.3	4.89	15.1	1	0.05	63.4
L842587		0.24	<0.01	1.37	0.04	35	440	0.08	0.01	17.90	105.0	1.40	3.0	1	<0.05	14.9
L842588		0.16	<0.01	0.33	1.79	37.6	6430	0.08	0.10	0.09	5.27	21.9	0.5	9	0.21	3.8
L842589		0.43	<0.01	0.18	1.04	127.5	7080	0.12	0.05	0.18	1.89	8.09	0.6	8	0.18	12.9
L842590		0.27	<0.01	0.63	3.05	47.0	9320	0.13	0.09	0.07	0.16	60.1	0.3	8	0.09	4.3
L842591		0.32	<0.01	3.92	0.07	26.1	2050	0.06	0.02	0.21	21.5	1.24	0.2	1	0.05	28.5
L842592		0.24	<0.01	0.25	0.04	4.5	2960	<0.05	0.03	0.61	1.94	0.43	0.2	7	<0.05	2.3
L842593		0.91	<0.01	7.42	0.20	24.3	130	<0.05	0.02	0.15	445	0.62	0.4	2	<0.05	269
L842594		0.28	<0.01	0.02	0.02	307	1690	0.11	<0.01	34.5	0.68	0.10	0.4	1	0.05	1.1
L842595		1.04	<0.01	0.08	0.21	127	590	0.22	0.01	24.4	1.11	3.31	1.0	3	0.16	1.9
L842596		1.12	<0.01	0.01	0.02	>10000	270	2.15	<0.01	30.9	0.07	0.22	1.2	<1	0.08	0.7
L842597		0.39	<0.01	0.14	0.11	3980	210	1.54	0.01	30.3	1.23	3.36	1.5	1	0.33	2.2
L842598		0.30	0.01	24.4	0.09	1100	60	0.17	0.02	22.4	248	1.20	0.9	1	0.28	28.5
L842599		0.35	0.01	>100	0.30	8920	110	0.36	0.10	9.39	>1000	2.22	1.1	3	0.59	343
L842600		0.35	<0.01	62.5	0.15	6340	60	0.25	0.03	27.0	281	2.87	0.6	1	10.10	46.9
L842701		0.77	<0.01	11.60	0.08	2580	50	0.13	0.01	22.4	78.2	0.62	0.8	<1	0.21	18.0
L842702		0.26	<0.01	0.48	0.14	77	80	0.33	0.01	23.4	1.51	1.72	1.1	2	0.13	1.3
L842703		0.19	<0.01	40.3	0.60	2060	80	0.36	0.04	21.8	292	4.78	1.0	4	0.61	27.0
L842704		0.37	<0.01	1.84	0.12	93	30	0.22	<0.01	27.1	16.85	1.63	1.1	<1	0.10	2.1
L842705		0.46	<0.01	0.73	0.10	176	40	0.13	0.02	22.3	11.50	0.67	0.9	<1	0.07	1.3
L842706		1.82	<0.01	0.11	0.16	40	60	0.29	0.01	24.0	0.69	2.23	1.3	1	0.14	1.8
L842707		0.23	<0.01	0.09	0.05	18	50	0.08	0.01	34.9	0.30	1.02	0.8	<1	0.06	1.1
L842708		0.26	0.01	0.43	1.14	22	1060	0.44	0.05	19.85	1.24	15.15	2.5	26	0.67	9.7
L842709		0.28	<0.01	0.08	0.04	13	30	0.09	<0.01	25.8	0.76	1.38	0.9	<1	0.05	1.3
L842710		1.19	<0.01	0.07	0.06	<5	50	0.07	<0.01	26.6	0.62	2.39	0.9	2	0.07	1.5
L842711		0.41	<0.01	0.08	0.09	25	30	0.14	0.01	24.6	0.58	2.05	1.2	<1	0.09	1.9
L842712		0.46	<0.01	0.35	0.03	29	30	0.30	0.01	29.4	5.34	1.85	0.8	<1	<0.05	1.0
L842713		0.38	<0.01	0.04	0.02	29	30	0.06	<0.01	26.7	0.18	1.55	1.9	2	<0.05	1.2
L842714		1.48	<0.01	1.98	0.06	409	30	0.13	0.02	24.1	24.1	0.60	0.7	<1	0.05	4.2
K242201		0.58	<0.01	11.30	0.66	35.9	1490	0.20	0.04	0.48	>1000	4.82	10.5	5	0.58	581
K242202		0.41	<0.01	0.11	0.56	9	630	0.19	0.01	34.7	8.75	10.65	0.9	4	0.59	4.7
K242203		0.63	<0.01	0.15	0.81	10	1200	0.21	0.04	34.5	12.25	18.70	1.3	5	2.98	6.1
K242204		0.56	0.01	6.16	2.28	72	230	0.36	0.09	15.90	431	23.9	3.8	20	2.19	789





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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
L842579		0.46	0.92	0.08	<0.1	0.46	0.203	0.04	4.4	2.4	0.07	329	1.27	0.01	0.6	5.6
L842580		2.91	4.70	0.12	1.3	0.92	0.081	0.58	15.3	74.5	0.13	526	0.28	0.03	2.6	9.5
L842581		0.65	2.03	<0.05	0.5	0.34	0.009	0.36	8.8	5.4	0.33	204	0.14	0.02	1.7	4.9
L842582		0.36	0.55	0.12	<0.1	0.26	0.078	0.01	1.1	4.9	10.75	309	0.21	0.01	0.3	3.8
L842583		0.32	0.27	<0.05	<0.1	0.48	<0.005	0.01	0.6	6.1	0.02	13	0.48	<0.01	0.2	0.8
L842584		0.81	21.1	0.08	0.2	>100	0.063	0.18	6.5	14.2	0.10	105	0.44	0.01	1.4	9.2
L842585		0.32	26.0	<0.05	0.1	>100	0.076	0.04	2.2	16.3	0.02	29	0.20	<0.01	0.6	2.0
L842586		>50	5.92	7.61	<0.1	>100	0.166	0.01	2.9	0.7	0.06	281	0.64	<0.01	1.0	23.4
L842587		1.39	2.94	0.07	<0.1	59.5	0.022	0.01	1.0	0.7	10.85	742	0.12	0.01	0.2	4.0
L842588		1.07	4.31	0.10	0.3	8.6	0.048	0.02	14.8	11.8	0.03	58	0.76	<0.01	1.2	2.4
L842589		1.90	3.26	0.08	0.1	3.03	0.041	0.02	5.3	7.6	0.09	66	0.36	<0.01	0.5	2.1
L842590		0.76	8.15	0.06	0.9	8.4	<0.005	0.02	40.6	28.4	0.02	27	0.38	<0.01	1.8	1.4
L842591		0.12	6.40	0.05	<0.1	>100	0.091	<0.01	0.7	1.3	0.01	9	0.11	<0.01	0.1	0.7
L842592		0.31	0.41	0.06	<0.1	2.48	0.026	<0.01	<0.5	2.3	0.30	48	0.13	<0.01	0.1	1.4
L842593		0.51	21.5	0.05	<0.1	>100	0.076	<0.01	<0.5	5.8	0.06	32	0.21	<0.01	0.2	1.2
L842594		0.04	0.11	0.07	<0.1	2.39	<0.005	<0.01	<0.5	1.0	0.25	73	0.09	0.01	0.2	12.8
L842595		0.28	0.57	0.10	<0.1	5.33	<0.005	0.05	2.1	0.8	7.67	712	0.36	0.02	0.5	6.2
L842596		2.54	0.16	0.06	<0.1	0.30	0.016	0.01	<0.5	1.1	0.25	1000	0.47	0.01	0.1	3.2
L842597		1.08	0.39	0.07	<0.1	0.50	0.005	0.04	1.7	1.0	3.20	2170	0.67	0.01	0.3	46.6
L842598		0.32	0.70	0.07	<0.1	79.8	<0.005	0.03	0.6	0.7	10.80	1270	0.21	0.01	0.2	6.9
L842599		0.34	3.01	0.16	<0.1	>100	0.015	0.10	1.3	1.3	4.97	788	9.74	0.01	0.3	10.0
L842600		0.35	0.98	0.06	<0.1	>100	0.008	0.05	1.4	0.7	6.07	2140	0.39	0.01	0.3	4.4
L842701		0.09	0.46	0.13	<0.1	75.2	<0.005	0.02	<0.5	0.5	11.80	259	0.26	0.01	0.2	4.1
L842702		0.14	0.34	0.14	<0.1	2.84	<0.005	0.04	0.9	0.6	11.05	356	0.33	0.01	0.4	5.1
L842703		0.25	1.60	0.12	0.1	52.9	0.007	0.27	2.5	3.0	10.05	208	0.42	0.02	0.9	4.5
L842704		0.21	0.40	0.11	<0.1	12.3	<0.005	0.04	0.8	0.5	7.85	1480	0.18	0.01	0.3	5.1
L842705		0.08	0.33	0.18	<0.1	4.75	<0.005	0.03	<0.5	0.6	12.20	206	0.16	0.01	0.3	4.6
L842706		0.13	0.39	<0.05	0.1	0.61	<0.005	0.07	1.0	0.9	10.25	117	0.28	0.01	0.2	3.3
L842707		0.03	0.15	<0.05	<0.1	0.22	0.006	0.02	0.5	0.4	0.67	25	0.76	<0.01	0.1	1.3
L842708		0.76	2.01	0.11	0.4	0.53	0.013	0.18	15.6	8.6	0.44	403	1.73	0.03	2.1	18.8
L842709		0.07	0.12	0.06	<0.1	0.81	<0.005	0.01	1.9	0.6	9.13	228	0.15	0.01	0.1	1.8
L842710		0.04	0.24	0.07	<0.1	0.87	0.015	0.02	3.0	0.6	8.60	77	0.13	0.01	0.1	2.8
L842711		0.17	0.24	0.06	<0.1	0.42	<0.005	0.03	0.9	0.7	10.20	69	0.33	0.01	0.1	3.1
L842712		0.08	0.14	0.06	<0.1	5.59	<0.005	<0.01	2.0	0.3	5.55	366	0.12	0.01	0.1	1.4
L842713		0.05	0.13	0.07	<0.1	0.19	0.008	<0.01	1.8	0.3	9.23	145	0.10	0.01	0.1	3.1
L842714		0.12	0.21	0.08	<0.1	13.3	<0.005	0.01	<0.5	0.6	12.25	468	0.19	0.02	0.2	4.4
K242201		1.02	6.79	0.06	0.2	>100	0.015	0.13	2.9	12.0	0.12	603	0.30	0.01	0.8	10.8
K242202		0.31	1.19	0.06	0.1	1.69	<0.005	0.22	5.7	1.4	0.42	139	0.11	0.01	0.8	4.4
K242203		0.65	1.81	0.07	0.2	2.77	0.008	0.30	9.0	2.5	0.38	239	0.09	0.02	1.1	4.3
K242204		2.32	25.8	0.12	1.4	>100	0.309	0.70	10.9	11.6	3.42	550	0.36	0.04	2.9	9.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842579		830	29.9	2.5	0.016	0.01	1.29	1.2	1	0.3	32.3	0.16	<0.05	0.8	0.010	0.26
L842580		130	15.5	22.4	0.005	0.01	0.40	3.9	1	0.5	32.1	0.25	<0.05	6.1	0.110	0.21
L842581		150	7.3	13.2	<0.002	0.01	0.20	1.8	1	0.3	981	0.12	<0.05	2.1	0.046	0.08
L842582		110	105.5	1.0	0.010	0.02	0.37	0.6	1	0.2	106.0	0.10	<0.05	0.3	<0.005	0.09
L842583		160	574	0.5	<0.002	0.08	5.62	0.1	1	<0.2	1135	<0.05	<0.05	<0.2	0.007	0.22
L842584		330	>10000	6.4	0.007	0.23	61.2	0.6	5	1.4	419	0.15	<0.05	1.4	0.046	0.40
L842585		350	2890	1.6	<0.002	0.24	8.49	0.4	4	3.6	272	<0.05	<0.05	0.6	0.019	0.18
L842586		440	6790	0.4	<0.002	0.53	22.9	0.4	3	2.3	24.8	<0.05	0.17	0.3	<0.005	0.67
L842587		430	396	0.3	<0.002	0.14	1.39	0.2	3	0.8	66.7	<0.05	<0.05	<0.2	<0.005	0.24
L842588		810	210	1.1	0.004	0.13	3.62	0.3	1	0.3	38.4	0.11	<0.05	2.0	0.036	0.42
L842589		680	215	1.0	0.003	0.16	2.84	0.3	1	0.2	24.6	0.05	<0.05	1.5	0.011	1.70
L842590		2680	309	0.7	<0.002	0.13	3.61	0.3	1	0.4	89.9	0.12	<0.05	4.2	0.048	0.37
L842591		210	1040	0.2	0.002	0.13	5.25	0.1	1	0.9	346	<0.05	<0.05	0.2	<0.005	0.67
L842592		80	106.0	0.1	0.002	0.09	3.63	0.1	1	<0.2	866	<0.05	<0.05	<0.2	<0.005	0.07
L842593		340	2190	0.1	<0.002	1.87	122.0	<0.1	14	0.9	95.3	<0.05	<0.05	<0.2	0.005	0.14
L842594		60	8.6	0.1	<0.002	0.16	0.52	0.2	1	<0.2	186.0	<0.05	<0.05	<0.2	<0.005	1.15
L842595		160	26.7	2.1	<0.002	0.03	0.91	0.9	1	<0.2	70.7	<0.05	<0.05	0.3	0.010	2.30
L842596		170	2.0	0.2	<0.002	0.13	0.16	0.1	1	<0.2	213	<0.05	<0.05	<0.2	<0.005	1.68
L842597		160	16.7	1.4	<0.002	0.08	2.60	1.0	1	<0.2	177.0	<0.05	<0.05	<0.2	<0.005	2.22
L842598		50	3440	0.9	0.002	1.39	86.3	0.2	4	0.3	110.5	<0.05	<0.05	<0.2	<0.005	1.48
L842599		60	>10000	3.8	0.003	6.00	1160	0.6	44	2.1	65.7	<0.05	0.27	0.3	0.010	9.09
L842600		20	>10000	1.7	<0.002	1.07	129.0	0.4	4	0.3	135.5	<0.05	<0.05	0.3	0.005	4.79
L842701		60	2240	0.8	<0.002	0.08	15.00	0.2	2	0.5	134.5	<0.05	<0.05	<0.2	<0.005	0.76
L842702		60	90.0	1.5	0.002	0.02	1.24	0.5	1	<0.2	155.0	<0.05	<0.05	0.3	0.007	0.11
L842703		110	9300	9.7	<0.002	1.11	104.5	1.0	6	0.2	136.0	0.05	<0.05	0.7	0.024	1.46
L842704		50	130.5	1.5	<0.002	0.07	1.44	0.4	1	<0.2	166.0	<0.05	<0.05	0.2	<0.005	0.12
L842705		50	169.0	1.1	<0.002	0.05	1.42	0.2	1	<0.2	118.5	<0.05	<0.05	<0.2	<0.005	0.10
L842706		70	10.8	2.6	<0.002	0.01	0.26	0.4	1	<0.2	148.0	<0.05	<0.05	0.2	0.006	0.11
L842707		30	21.8	0.7	0.002	0.01	0.28	0.2	1	<0.2	318	<0.05	<0.05	<0.2	<0.005	0.03
L842708		640	20.8	10.9	0.006	0.08	0.83	2.7	3	0.3	602	0.12	<0.05	1.8	0.055	0.16
L842709		70	25.2	0.3	<0.002	0.01	0.24	0.1	1	<0.2	117.5	<0.05	<0.05	<0.2	<0.005	0.23
L842710		80	11.2	0.8	<0.002	0.01	0.15	0.2	1	<0.2	145.5	<0.05	<0.05	<0.2	<0.005	0.11
L842711		60	18.8	1.1	<0.002	0.03	0.53	0.3	1	<0.2	174.0	<0.05	<0.05	<0.2	<0.005	0.05
L842712		140	21.1	0.1	<0.002	0.03	0.80	0.4	1	<0.2	46.1	<0.05	<0.05	<0.2	<0.005	0.15
L842713		40	7.7	0.2	<0.002	0.01	0.13	0.2	1	<0.2	130.0	<0.05	<0.05	<0.2	<0.005	0.08
L842714		50	71.1	0.6	<0.002	0.05	1.79	0.2	1	0.2	135.0	<0.05	<0.05	<0.2	<0.005	0.27
K242201		280	>10000	7.0	<0.002	0.15	204	1.6	20	0.3	259	0.06	<0.05	0.3	0.033	0.42
K242202		60	133.0	8.4	<0.002	0.04	1.94	0.9	1	0.2	1605	<0.05	<0.05	0.9	0.017	0.04
K242203		160	141.5	13.0	<0.002	0.09	3.48	1.3	1	0.2	1210	0.07	<0.05	1.2	0.028	0.13
K242204		310	4880	28.3	<0.002	4.24	526	2.9	12	7.7	246	0.22	<0.05	4.2	0.084	0.20



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42	Pb- VOL70	Zn- VOL50
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1	0.01	0.01
L842579		7.4	17	0.3	6.3	143	3.4							
L842580		1.5	17	0.4	10.2	154	45.4							
L842581		6.9	9	0.2	5.6	25	18.0							
L842582		0.5	2	0.1	1.3	993	2.1							
L842583		0.4	1	0.1	0.3	115	1.6							
L842584		2.7	6	0.3	2.8	>10000	11.0		1.830	7.17		687		
L842585		1.7	2	0.1	1.7	>10000	5.7			5.90		829		
L842586		8.3	9	0.1	3.4	>10000	2.2			3.41		139.0		
L842587		0.8	1	<0.1	1.5	>10000	1.1			3.41				
L842588		1.1	6	0.4	2.7	421	13.1							
L842589		0.7	4	0.2	2.0	690	6.2							
L842590		2.5	3	0.7	4.6	84	32.7							
L842591		0.7	<1	0.1	0.4	9480	0.9					156.0		
L842592		0.3	1	<0.1	0.3	305	0.6							
L842593		1.3	1	0.1	0.7	>10000	2.1			24.9		1515		
L842594		2.0	1	<0.1	0.2	966	<0.5							
L842595		3.3	12	0.2	4.1	492	2.3							
L842596		2.6	1	3.0	0.3	93	1.1				1.350			
L842597		2.7	15	1.8	4.5	1240	2.9							
L842598		1.1	2	0.2	0.8	>10000	1.2			3.12				
L842599		11.7	11	0.7	0.8	>10000	2.8	488	>20.0	16.45		724	22.05	
L842600		2.0	6	0.4	1.8	>10000	1.5		1.090	3.67		428		
L842701		2.1	2	0.2	0.5	9170	0.9							
L842702		1.8	5	0.5	0.9	292	1.8							
L842703		2.5	12	0.6	2.3	>10000	6.2			2.60				
L842704		1.2	4	0.3	0.8	1680	1.1							
L842705		0.5	1	0.1	0.5	1040	1.1							
L842706		1.1	6	0.2	1.1	66	2.2							
L842707		3.8	7	0.1	0.4	31	0.9							
L842708		2.1	53	0.3	17.7	120	21.8							
L842709		1.3	3	0.1	4.1	70	0.6							
L842710		2.4	6	0.1	6.5	45	0.9							
L842711		1.5	7	0.1	1.0	70	1.1							
L842712		3.2	6	0.1	6.4	100	0.8							
L842713		0.8	7	0.1	5.7	21	<0.5							
L842714		4.1	4	0.2	0.4	3640	0.8							
K242201		1.2	15	0.1	8.5	>10000	9.3		1.360	>30.0		277		30.23
K242202		8.4	7	0.1	3.3	2030	7.2							
K242203		3.3	8	0.1	7.8	2360	9.8							
K242204		7.0	24	0.3	9.2	>10000	56.7			8.56		357		



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Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K242205		0.69	<0.01	53.4	0.20	108.0	100	0.09	0.04	0.87	>1000	2.06	3.9	2	0.10	611
K242206		0.24	<0.01	10.45	0.55	39.6	390	0.22	0.03	1.20	215	6.20	2.4	7	0.26	231
K242207		0.70	<0.01	25.3	0.62	52.3	1530	0.18	0.05	0.64	360	5.49	3.7	8	0.17	205
K242208		1.03	<0.01	21.1	0.28	30.9	320	0.12	0.03	3.80	409	1.87	1.6	9	0.10	180.0
K242209		1.00	<0.01	0.37	6.74	12.6	1390	1.55	0.32	0.12	1.81	96.9	8.5	72	5.75	25.5
K242210		1.10	0.01	6.78	2.58	239	160	0.43	0.20	11.80	401	32.5	7.9	22	1.11	356
K242211		0.68	<0.01	4.48	0.50	40.6	170	0.16	0.04	9.09	60.1	5.05	1.8	13	0.32	303
K242212		0.51	<0.01	40.4	0.39	19	120	0.09	0.10	10.40	4.54	3.33	1.0	7	0.26	22.2
K242213		0.46	<0.01	0.18	1.34	475	2340	0.62	0.01	9.82	0.01	5.92	16.7	7	<0.05	10.5
K242214		0.71	<0.01	0.04	<0.01	4.2	2850	<0.05	<0.01	0.03	0.08	0.15	0.1	<1	<0.05	2.0
K242215		0.40	<0.01	0.24	0.32	718	3470	0.18	0.01	6.82	1.01	11.15	13.8	3	0.14	3.5
K242216		0.42	<0.01	0.32	0.98	1450	2850	1.03	0.02	2.34	1.73	15.30	24.0	1	0.38	5.3
K242217		0.40	<0.01	0.04	0.43	7	340	0.22	0.05	10.10	0.25	16.00	1.7	10	0.13	7.0
K242218		0.66	<0.01	0.03	0.34	9	670	0.11	<0.01	17.75	0.19	5.56	0.7	2	0.23	1.2
K242219		0.52	<0.01	0.05	0.44	565	1500	0.14	0.02	0.29	0.89	16.50	1.4	7	0.35	6.2
K242220		0.71	<0.01	0.50	0.27	64	190	0.05	0.01	17.30	67.6	4.85	1.1	1	0.09	5.4
K242221		0.55	0.01	0.75	1.30	1410	200	0.19	0.05	0.29	4.92	24.4	4.1	10	0.72	20.2
K242222		0.77	<0.01	0.06	1.56	26.3	1170	0.25	0.05	0.23	0.72	33.6	0.3	8	1.87	3.7
K242223		0.21	<0.01	0.05	1.49	30.8	1510	0.20	0.05	0.07	0.13	34.0	0.3	8	1.61	2.9
K242224		0.35	<0.01	0.02	0.63	8	100	0.10	0.01	30.0	0.11	12.35	1.9	3	0.09	3.9
K242225		0.99	<0.01	8.98	0.40	11.2	380	0.06	0.03	0.08	111.5	1.46	9.6	3	0.23	7.0
K242226		0.58	<0.01	1.10	1.16	5.7	300	0.17	0.06	0.20	43.2	17.15	1.2	10	1.19	15.7
K242227		0.95	<0.01	0.06	0.02	1.5	1740	<0.05	<0.01	0.03	0.40	0.21	0.1	<1	0.06	1.0
K242228		0.45	<0.01	2.97	0.10	5.5	70	<0.05	<0.01	0.03	58.8	0.04	0.1	3	<0.05	4.1
K242229		0.55	<0.01	1.08	0.62	54.5	1450	0.14	0.02	0.09	3.32	9.21	0.2	25	0.20	6.8
K242230		0.39	<0.01	7.88	0.23	10.3	70	<0.05	0.01	0.01	405	0.03	0.1	<1	0.20	22.8
K242231		0.53	<0.01	2.14	0.13	18.5	120	<0.05	0.02	0.02	15.15	0.36	0.2	6	<0.05	4.9
K242232		0.61	<0.01	1.49	0.27	6.9	780	0.06	0.02	6.35	24.3	2.97	0.6	9	<0.05	22.4
K242233		0.34	<0.01	0.09	0.30	14	1430	0.29	0.01	23.8	0.37	4.11	1.0	2	0.27	2.1
K242234		0.50	<0.01	0.02	0.05	10	180	0.09	<0.01	24.9	0.26	2.72	0.9	1	0.05	1.1
K242235		0.44	<0.01	0.01	0.02	2640	190	1.00	<0.01	26.7	0.12	0.55	0.7	<1	0.07	0.7
K242236		0.59	<0.01	0.49	1.02	201	150	0.80	0.04	22.9	1.93	8.43	1.8	7	1.13	5.8
K242237		0.67	<0.01	6.27	0.10	1400	60	0.16	0.01	23.1	68.2	0.81	1.0	2	0.79	8.6
K242238		0.23	<0.01	5.00	0.17	170	50	0.28	0.01	23.0	89.0	1.11	1.3	3	0.13	10.6
K242239		0.47	0.36	22.3	0.19	5850	90	0.30	0.12	24.4	115.5	2.05	1.2	3	0.16	15.6
K242240		0.48	<0.01	0.29	0.22	50	70	0.55	0.01	23.5	2.93	2.16	1.8	3	0.18	2.2
K242241		0.49	<0.01	0.47	0.08	82	60	0.26	0.01	34.4	2.51	0.93	0.8	1	0.07	1.3
K242242		0.99	<0.01	6.28	0.08	1370	40	0.19	<0.01	23.1	112.5	0.63	1.0	1	0.07	18.1
K242243		0.38	<0.01	0.15	0.40	33	70	0.94	0.02	23.8	0.90	2.91	1.2	4	0.31	1.9
K242244		0.52	<0.01	0.22	0.42	61	70	0.70	0.01	34.3	1.14	6.28	0.8	4	0.42	1.9





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**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K242205		0.87	23.7	0.05	<0.1	>100	0.025	0.05	0.9	18.1	0.04	81	0.26	0.01	0.1	5.9
K242206		1.17	3.52	0.05	0.1	>100	0.017	0.13	3.1	49.3	0.19	289	0.51	0.01	0.6	6.7
K242207		1.02	8.75	<0.05	0.1	>100	0.020	0.09	2.9	75.7	0.03	231	0.21	0.01	0.6	10.9
K242208		0.63	2.93	<0.05	<0.1	>100	<0.005	0.07	0.9	17.9	0.16	172	0.18	0.01	0.3	4.4
K242209		3.87	15.75	0.19	3.8	6.7	0.056	2.29	47.5	30.3	0.28	344	0.57	0.11	12.5	24.6
K242210		3.00	27.5	0.12	1.7	>100	0.091	0.80	17.0	11.2	4.64	603	0.45	0.05	3.3	46.0
K242211		0.76	7.29	0.05	0.1	89.7	0.170	0.13	2.3	19.0	0.26	339	0.18	0.01	0.6	5.3
K242212		0.76	1.21	0.10	0.1	8.0	0.027	0.12	1.6	11.6	0.51	322	0.18	0.01	0.4	3.4
K242213		11.10	0.97	0.17	0.1	3.3	0.010	0.01	2.5	7.2	5.78	1040	0.16	<0.01	0.4	29.4
K242214		0.06	0.07	<0.05	<0.1	0.33	<0.005	<0.01	<0.5	<0.2	0.01	<5	0.08	<0.01	<0.1	0.4
K242215		27.5	0.63	0.42	<0.1	17	0.005	0.04	6.9	12.8	2.69	848	0.18	0.01	0.8	13.7
K242216		48.8	1.64	1.17	0.3	9	0.011	0.04	6.9	7.7	1.32	2570	0.58	0.01	1.5	53.3
K242217		4.31	0.90	0.08	0.2	0.49	0.012	0.05	5.9	101.5	1.49	1170	0.49	0.01	0.4	5.7
K242218		0.37	0.89	<0.05	0.2	0.38	<0.005	0.12	3.1	2.2	10.40	452	0.11	0.02	0.3	1.9
K242219		1.05	0.96	0.06	0.1	0.93	0.005	0.04	8.8	25.8	0.08	186	0.22	<0.01	0.4	2.2
K242220		1.40	20.5	0.11	<0.1	>100	0.046	0.02	2.5	8.4	10.05	1420	0.09	0.01	0.3	2.1
K242221		29.2	7.49	0.50	0.3	48.6	0.053	0.23	15.0	17.2	0.17	355	0.99	0.02	1.8	9.5
K242222		0.40	3.71	0.06	0.4	11.2	<0.005	0.27	22.2	111.5	0.13	52	0.12	0.01	2.0	1.3
K242223		0.58	3.39	0.06	0.5	2.47	<0.005	0.23	22.4	49.8	0.05	67	0.12	0.01	1.9	1.4
K242224		1.19	0.69	0.05	0.2	0.77	<0.005	0.04	6.2	4.2	0.30	606	1.36	0.01	1.2	4.5
K242225		0.56	7.97	<0.05	<0.1	>100	0.024	0.04	1.0	12.8	0.02	158	0.14	<0.01	0.3	9.4
K242226		0.64	7.37	0.06	0.5	34.4	0.079	0.14	6.1	9.9	0.04	24	0.22	0.01	1.9	4.5
K242227		0.04	0.12	<0.05	<0.1	1.09	<0.005	<0.01	<0.5	1.4	<0.01	<5	0.06	<0.01	<0.1	0.4
K242228		0.24	0.79	<0.05	<0.1	>100	0.006	<0.01	<0.5	6.9	0.01	19	0.14	<0.01	<0.1	0.7
K242229		0.64	1.54	0.05	0.1	26.3	0.019	0.02	5.4	22.9	0.01	48	0.55	0.01	0.5	2.4
K242230		0.34	10.05	<0.05	<0.1	>100	0.067	0.01	<0.5	7.5	<0.01	12	0.11	<0.01	0.1	0.7
K242231		0.99	0.64	0.07	<0.1	36.3	0.008	0.01	<0.5	11.3	0.01	27	0.12	<0.01	0.1	1.3
K242232		0.77	1.66	0.05	<0.1	47.8	0.007	0.01	1.5	17.0	3.38	266	0.18	0.01	0.2	3.4
K242233		0.20	0.69	<0.05	0.1	0.6	<0.005	0.14	1.8	3.0	10.80	45	0.59	0.02	0.5	3.2
K242234		0.06	0.16	0.06	<0.1	0.3	<0.005	0.02	2.2	0.4	11.50	134	0.22	0.01	0.1	2.9
K242235		0.55	0.13	0.06	<0.1	0.2	<0.005	0.01	<0.5	0.7	0.24	639	0.30	0.01	0.1	3.9
K242236		0.43	2.50	0.16	0.4	0.85	0.009	0.47	4.1	6.5	10.70	652	0.55	0.03	1.6	2.5
K242237		0.18	0.55	0.49	<0.1	52.9	<0.005	0.03	<0.5	0.8	10.95	690	0.23	0.01	0.2	2.7
K242238		0.17	0.84	0.59	<0.1	27.3	<0.005	0.07	0.6	1.1	11.05	370	0.25	0.01	0.3	3.0
K242239		0.33	0.86	0.28	0.1	51.5	0.008	0.07	1.1	1.2	9.01	1360	0.68	0.01	0.4	1.8
K242240		0.11	0.78	0.65	0.1	0.72	<0.005	0.09	1.0	1.4	11.15	181	0.19	0.01	0.5	3.9
K242241		0.06	0.42	0.53	<0.1	1.5	<0.005	0.03	0.5	0.4	3.31	217	0.22	0.01	0.3	1.1
K242242		0.10	0.85	0.58	<0.1	80.7	<0.005	0.02	<0.5	0.8	10.95	417	0.28	0.01	0.2	1.8
K242243		0.21	1.17	0.49	0.2	1.04	0.005	0.18	1.5	2.8	11.35	38	0.24	0.02	0.8	1.9
K242244		0.18	1.06	0.25	0.1	2.65	<0.005	0.16	3.2	1.6	1.76	485	0.33	0.01	0.7	1.5



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**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K242205		350	>10000	1.8	<0.002	>10.0	544	0.4	22	0.2	11.3	<0.05	<0.05	<0.2	0.005	0.08
K242206		730	9810	5.2	0.002	1.50	174.0	2.8	6	0.5	27.4	<0.05	<0.05	0.5	0.025	0.09
K242207		250	>10000	3.9	<0.002	0.53	222	1.2	8	0.6	63.3	<0.05	<0.05	0.3	0.026	0.11
K242208		500	>10000	2.8	<0.002	4.74	157.0	0.5	8	0.2	108.5	<0.05	<0.05	0.3	0.009	0.05
K242209		270	221	135.0	0.002	0.03	2.23	12.6	2	2.0	112.5	0.93	<0.05	17.4	0.393	0.85
K242210		520	8130	33.4	<0.002	3.67	106.0	3.7	10	5.5	164.0	0.26	<0.05	5.0	0.099	0.16
K242211		470	4460	5.0	<0.002	0.78	216	1.1	2	2.0	83.0	<0.05	<0.05	0.7	0.022	0.09
K242212		300	>10000	4.2	<0.002	2.11	545	1.4	17	0.4	80.6	<0.05	<0.05	0.4	0.015	0.14
K242213		780	239	0.2	<0.002	0.11	16.15	1.6	1	0.2	89.6	<0.05	<0.05	0.6	<0.005	1.04
K242214		10	61.4	0.1	<0.002	0.12	1.40	<0.1	1	<0.2	95.0	<0.05	<0.05	<0.2	<0.005	0.27
K242215		660	371	1.5	<0.002	0.15	150.0	1.6	1	0.2	45.7	<0.05	<0.05	0.5	0.007	5.49
K242216		820	189.5	2.0	<0.002	0.11	25.5	2.6	3	0.2	33.4	0.05	<0.05	0.7	0.011	3.48
K242217		2440	35.2	2.3	<0.002	0.04	0.85	3.0	1	<0.2	164.5	<0.05	<0.05	0.7	0.015	0.05
K242218		140	52.3	3.8	<0.002	0.02	1.38	0.3	1	<0.2	208	<0.05	<0.05	0.4	0.008	0.10
K242219		1330	95.7	2.1	<0.002	0.01	10.05	0.2	1	0.2	618	<0.05	<0.05	0.7	0.012	0.08
K242220		290	59.9	0.8	<0.002	2.87	7.28	1.0	7	2.1	95.3	<0.05	<0.05	0.3	0.005	0.65
K242221		1370	842	9.7	<0.002	0.06	165.0	3.4	3	0.5	67.8	0.11	0.05	2.4	0.039	8.39
K242222		690	69.5	10.1	<0.002	0.04	3.95	0.6	1	0.4	374	0.15	<0.05	3.1	0.057	0.49
K242223		1040	44.7	7.6	<0.002	0.02	5.64	0.5	1	0.4	585	0.18	<0.05	2.7	0.050	0.53
K242224		270	7.6	1.7	<0.002	0.34	0.29	1.5	2	<0.2	1130	0.05	<0.05	0.7	0.024	0.04
K242225		240	>10000	1.8	<0.002	0.65	27.3	0.2	4	0.9	151.5	<0.05	<0.05	<0.2	0.009	0.23
K242226		390	831	6.0	<0.002	0.73	4.98	0.6	2	0.6	484	0.14	<0.05	1.7	0.062	0.17
K242227		60	94.6	0.2	<0.002	0.11	0.49	<0.1	1	<0.2	1280	<0.05	<0.05	<0.2	<0.005	0.02
K242228		60	807	0.1	<0.002	2.57	2.25	0.1	4	0.5	84.1	<0.05	<0.05	<0.2	<0.005	0.20
K242229		1260	3040	0.6	<0.002	0.48	2.43	0.4	1	0.3	44.9	<0.05	<0.05	2.1	0.013	0.12
K242230		60	614	0.4	<0.002	>10.0	14.20	<0.1	23	2.2	31.7	<0.05	<0.05	<0.2	<0.005	0.51
K242231		80	>10000	0.2	<0.002	1.73	73.0	0.1	2	0.2	196.0	<0.05	<0.05	<0.2	<0.005	0.46
K242232		620	2230	0.3	<0.002	0.47	15.20	1.1	2	0.2	158.0	<0.05	<0.05	0.3	0.005	0.03
K242233		90	158.0	5.2	<0.002	0.09	1.16	0.6	1	<0.2	168.5	<0.05	<0.05	0.4	0.013	0.09
K242234		100	11.8	0.7	<0.002	0.01	0.17	0.3	1	<0.2	95.7	<0.05	<0.05	<0.2	<0.005	0.27
K242235		100	10.4	0.2	<0.002	0.12	0.41	0.3	2	<0.2	153.5	<0.05	<0.05	<0.2	<0.005	0.91
K242236		220	54.0	18.1	<0.002	0.09	0.63	2.1	1	0.3	167.0	0.09	<0.05	1.3	0.045	0.31
K242237		60	1150	1.2	<0.002	0.25	14.35	0.3	2	<0.2	112.0	<0.05	<0.05	<0.2	<0.005	1.01
K242238		70	562	2.5	0.002	0.40	15.70	0.4	2	0.2	150.0	<0.05	<0.05	0.2	0.006	0.69
K242239		60	7090	2.7	0.003	0.89	100.5	0.6	4	0.3	169.5	<0.05	<0.05	0.3	0.009	6.48
K242240		70	72.0	3.5	<0.002	0.03	4.02	0.5	1	<0.2	136.5	<0.05	<0.05	0.3	0.011	0.35
K242241		30	102.0	1.1	0.002	0.04	0.99	0.3	1	<0.2	144.5	<0.05	<0.05	<0.2	<0.005	0.13
K242242		70	150.0	0.9	<0.002	0.32	4.41	0.3	3	0.3	126.5	<0.05	<0.05	<0.2	<0.005	0.29
K242243		60	10.1	7.0	<0.002	0.02	0.49	1.0	1	<0.2	179.0	<0.05	<0.05	0.6	0.020	0.12
K242244		50	24.8	5.6	<0.002	0.02	0.83	1.1	1	<0.2	59.3	<0.05	<0.05	0.6	0.017	0.75



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42	Pb- VOL70	Zn- VOL50
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1	0.01	0.01
K242205		1.2	5	0.1	1.9	>10000	1.8		3.92	>30.0		1345		31.69
K242206		3.4	11	0.1	5.3	>10000	7.5			6.88		318		
K242207		0.8	11	0.1	4.0	>10000	7.9		3.15	10.15		713		
K242208		1.0	6	0.1	2.5	>10000	3.5		2.19	11.45		471		
K242209		3.4	89	1.5	20.1	699	136.5							
K242210		6.2	38	0.4	9.4	>10000	64.2			8.28		446		
K242211		1.7	8	0.1	11.0	>10000	8.1			1.060				
K242212		1.2	6	0.1	8.9	925	5.4		12.35					
K242213		7.8	6	0.1	25.9	4930	5.3							
K242214		<0.1	<1	<0.1	0.1	21	<0.5							
K242215		3.9	9	0.1	7.7	1320	2.9							
K242216		23.1	15	0.2	50.0	>10000	15.9			1.780				
K242217		4.0	11	0.1	26.9	84	17.2							
K242218		0.9	2	0.2	2.4	75	6.4							
K242219		1.2	3	0.2	2.4	120	3.4							
K242220		1.6	3	0.1	2.7	>10000	4.1			7.11		1170		
K242221		4.4	16	0.4	5.8	6340	14.5							
K242222		4.0	6	0.5	3.1	699	15.1							
K242223		4.4	5	0.6	3.7	54	13.2							
K242224		0.6	13	0.1	10.8	34	9.6							
K242225		2.2	2	0.1	1.8	>10000	2.9		1.520	4.13		257		
K242226		2.3	9	0.4	3.1	>10000	21.5			1.420				
K242227		0.1	<1	<0.1	0.2	137	<0.5							
K242228		0.3	1	0.1	0.1	>10000	0.5			5.28		149.5		
K242229		4.4	3	0.2	2.4	5120	8.2							
K242230		0.3	1	<0.1	0.1	>10000	1.3			>30.0		640		35.29
K242231		0.3	1	<0.1	0.2	>10000	0.5		1.470	1.785				
K242232		2.3	3	0.1	2.8	>10000	3.4			1.085				
K242233		2.3	8	0.3	1.6	152	3.3							
K242234		1.5	7	0.1	5.4	67	0.9							
K242235		1.7	1	1.1	0.9	77	1.6							
K242236		3.5	16	2.0	3.1	226	12.4							
K242237		1.1	3	0.2	0.7	6740	1.1							
K242238		1.8	7	0.2	0.7	7740	1.7							
K242239		3.8	9	0.7	1.1	>10000	3.0			1.845				
K242240		1.6	8	0.5	1.0	532	3.2							
K242241		3.2	5	0.2	0.5	382	2.3							
K242242		2.1	3	0.1	0.6	>10000	0.9			1.700				
K242243		1.6	14	0.6	1.3	135	5.1							
K242244		7.5	16	0.5	7.1	178	5.4							



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
K242245		0.80	<0.01	0.03	0.10	21	40	0.32	0.01	24.2	0.24	1.43	1.5	1	0.08	1.2
K242246		0.65	<0.01	0.03	0.08	28	40	0.27	0.01	23.6	0.59	1.27	2.6	1	0.06	1.1
K242247		0.23	<0.01	0.03	0.09	8	60	0.15	0.01	31.6	0.14	1.53	0.9	2	0.07	1.3
K242248		0.79	<0.01	0.02	0.41	11	40	0.15	0.01	22.8	0.13	3.78	1.4	4	0.51	1.6
K242249		0.74	<0.01	7.89	0.08	1700	30	0.30	0.02	24.1	119.0	0.99	1.0	1	<0.05	14.2
K242250		0.37	<0.01	0.81	0.14	287	40	0.61	<0.01	23.3	19.10	1.53	1.1	2	0.12	1.7
DD027064		0.52	0.02	0.96	0.33	111	190	0.36	0.22	18.25	3.04	5.75	1.9	4	0.19	22.9
DD027065		0.47	<0.01	0.30	0.80	20	400	0.27	0.24	18.95	1.52	8.83	2.7	10	0.45	6.3
L842601		0.82	<0.01	0.33	0.80	579	90	0.35	0.02	29.1	4.16	9.83	3.0	9	1.41	4.3
L842602		0.76	<0.01	0.06	0.46	8	150	0.19	0.02	31.4	0.24	11.80	1.3	6	0.31	2.0
L842603		0.65	<0.01	0.28	1.53	18	300	0.56	0.04	20.1	1.53	22.1	2.9	24	1.10	9.8
L842604		0.51	<0.01	0.05	1.35	<5	680	0.99	0.04	30.5	0.05	42.6	1.5	4	0.69	2.2
L842605		0.71	<0.01	0.03	0.30	8	200	0.25	0.01	34.2	0.06	6.63	1.0	9	0.39	4.0
I357914		0.61	<0.01	1.63	1.11	52.2	1580	0.51	0.05	0.52	0.46	8.32	0.7	91	1.92	22.6
I357915		0.59	<0.01	3.80	1.63	>10000	150	8.22	0.01	0.61	614	28.0	233	19	0.88	715
I357916		0.13	0.01	1.43	13.05	>10000	2760	10.40	0.02	1.12	73.9	14.75	12.8	168	1.77	119.5
I357917		0.62	<0.01	0.91	2.71	2520	1380	1.65	0.13	0.13	11.45	29.4	2.9	73	5.03	183.5
I357918		0.50	0.01	1.23	0.24	799	90	0.65	0.01	35.9	10.15	3.63	1.4	4	0.45	4.9
I357919		0.63	0.10	0.18	0.08	404	40	0.29	<0.01	35.7	1.63	2.05	0.9	2	0.12	3.1
I357920		0.74	<0.01	0.53	0.46	>10000	290	2.53	0.01	0.48	5.69	9.07	267	5	1.11	16.4
I357921		0.92	0.02	1.16	0.70	422	110	0.59	0.02	36.5	11.25	8.88	2.0	7	1.48	6.7
I357922		0.63	0.01	0.93	5.07	>10000	710	3.91	0.14	8.60	31.1	33.8	65.4	73	11.50	76.4
I357923		0.70	<0.01	0.38	0.16	374	120	0.24	<0.01	37.6	2.18	3.06	1.7	4	0.56	2.1
I357924		0.69	<0.01	0.20	0.08	294	70	0.27	<0.01	38.0	1.11	2.29	1.3	3	0.14	1.4
I357925		0.94	<0.01	0.62	0.73	>10000	1030	2.02	0.02	1.28	81.9	7.02	12.2	87	2.25	10.3
I357926		0.72	<0.01	1.07	1.26	>10000	7310	6.69	0.04	0.93	49.1	9.14	10.9	13	3.48	216
I357927		0.54	<0.01	0.99	2.30	>10000	4890	6.22	0.06	0.75	27.3	13.55	39.6	14	3.65	49.6
I357928		1.03	<0.01	0.86	4.75	3570	1310	1.75	0.24	0.21	6.29	59.0	2.3	130	10.10	123.0
I357929		0.65	<0.01	0.09	1.17	62	1000	0.69	0.02	30.3	0.15	20.7	2.6	8	0.48	2.7
I357930		0.66	<0.01	2.66	0.46	92.3	230	0.40	0.04	0.19	0.49	4.07	0.9	41	0.93	47.0
I357931		0.66	<0.01	0.06	0.65	27	40	0.15	0.02	21.0	0.04	16.70	2.5	8	0.93	2.4
I357932		0.69	<0.01	0.16	3.51	12.9	4060	0.86	0.12	0.27	0.11	59.1	21.5	29	1.02	9.2





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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K242245		0.10	0.25	0.08	<0.1	0.33	<0.005	0.03	0.7	0.6	10.75	181	0.20	0.01	0.2	2.3
K242246		0.12	0.49	0.63	<0.1	0.39	<0.005	0.02	0.6	0.6	11.10	404	0.11	0.01	0.2	4.1
K242247		0.05	0.47	0.58	<0.1	0.13	0.006	0.03	0.9	0.5	4.27	38	0.22	0.01	0.3	1.9
K242248		0.19	1.10	0.54	0.1	0.11	<0.005	0.18	1.8	5.0	11.25	26	1.33	0.04	0.7	3.2
K242249		0.08	0.68	0.68	<0.1	21.9	<0.005	0.01	0.5	0.8	10.40	347	0.13	0.02	0.2	1.9
K242250		0.14	0.67	0.63	<0.1	9.6	<0.005	0.05	0.7	0.9	10.80	591	0.36	0.01	0.3	1.9
DD027064		6.65	0.92	0.17	0.1	0.41	0.028	0.10	3.3	3.2	10.90	596	0.84	0.04	1.1	9.9
DD027065		0.65	1.84	0.15	0.3	0.2	0.041	0.21	4.7	5.6	11.55	449	0.20	0.11	1.9	6.0
L842601		0.65	1.93	0.16	0.3	0.29	0.006	0.38	7.3	3.1	3.85	128	2.19	0.01	1.3	35.8
L842602		0.32	1.19	0.18	0.2	0.1	0.006	0.23	7.5	3.1	1.02	74	0.37	0.02	0.8	2.6
L842603		0.81	3.91	0.19	0.5	0.1	0.014	0.73	17.7	11.8	0.47	88	3.17	0.02	2.6	15.8
L842604		1.35	3.20	0.16	1.4	0.05	0.014	0.27	22.4	6.9	0.29	932	0.14	0.43	15.9	<0.2
L842605		0.55	0.61	0.11	0.1	0.07	0.006	0.10	6.5	1.3	0.21	129	0.75	0.01	1.7	4.2
I357914		1.62	2.50	0.11	0.5	0.33	0.019	0.34	6.7	30.4	0.07	57	6.10	0.03	1.7	24.3
I357915		43.4	1.59	1.05	0.3	8.0	0.033	0.05	23.6	13.2	0.02	3610	99.0	<0.01	0.8	2960
I357916		2.83	2.08	0.24	0.3	11.3	0.070	0.13	10.8	4.4	0.04	427	18.45	0.01	0.8	661
I357917		4.44	7.24	0.18	1.1	0.69	0.040	0.78	18.0	6.5	0.16	53	53.2	0.03	4.8	43.8
I357918		0.59	0.84	0.07	0.1	2.4	<0.005	0.09	2.4	0.8	0.17	713	0.86	<0.01	0.5	4.9
I357919		0.49	0.25	0.05	<0.1	0.20	<0.005	0.03	1.3	0.4	0.47	612	0.63	<0.01	0.3	1.2
I357920		>50	1.17	1.50	0.1	13.5	0.010	0.07	9.3	0.9	0.05	490	32.0	<0.01	0.7	3100
I357921		0.70	1.51	0.06	0.2	1.11	0.006	0.30	5.1	2.5	0.31	301	1.28	0.01	1.0	15.2
I357922		16.90	9.12	0.41	1.5	0.83	0.047	1.15	22.8	34.4	0.32	420	15.95	0.16	5.6	1020
I357923		0.52	0.45	0.07	0.1	0.63	<0.005	0.04	4.7	0.8	0.06	858	1.14	<0.01	0.3	27.0
I357924		0.37	0.33	0.08	<0.1	0.5	<0.005	0.02	3.4	0.4	0.07	667	0.92	<0.01	0.3	21.9
I357925		49.2	22.8	1.43	0.3	4.82	0.055	0.22	6.2	3.8	0.05	288	44.4	0.02	1.0	292
I357926		46.0	4.18	1.12	0.5	2.73	0.026	0.32	5.5	7.1	0.08	171	99.1	0.06	1.6	1090
I357927		43.8	3.17	2.58	0.6	2.74	0.030	0.35	7.3	9.3	0.09	246	82.5	0.05	2.2	1600
I357928		8.34	16.90	0.23	2.6	1.73	0.089	1.89	36.5	16.3	0.30	42	35.2	0.03	15.9	38.6
I357929		3.14	3.00	0.07	1.1	0.06	0.013	0.40	12.2	2.0	1.21	703	0.96	0.29	12.0	2.9
I357930		1.20	1.74	<0.05	0.3	0.22	0.006	0.18	2.8	3.6	0.05	58	14.05	0.02	1.2	16.0
I357931		4.38	1.77	<0.05	0.3	0.04	0.009	0.30	6.3	2.6	8.35	512	0.15	0.01	1.7	7.0
I357932		6.05	9.12	0.15	2.7	0.07	0.030	0.56	21.9	67.3	0.53	2490	2.31	0.26	5.6	22.1



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**CERTIFICATE OF ANALYSIS WH12147401**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K242245		50	3.8	1.3	<0.002	0.01	0.16	0.2	1	<0.2	136.0	<0.05	<0.05	<0.2	<0.005	0.05
K242246		50	4.4	1.0	<0.002	0.01	0.10	0.3	1	<0.2	117.5	<0.05	<0.05	<0.2	<0.005	0.07
K242247		30	6.0	1.3	<0.002	<0.01	0.20	0.3	1	<0.2	195.5	<0.05	<0.05	<0.2	<0.005	0.04
K242248		60	1.9	7.0	<0.002	0.04	0.17	0.8	1	<0.2	216	<0.05	<0.05	0.6	0.019	0.11
K242249		40	2190	0.7	<0.002	0.85	80.0	0.3	3	<0.2	148.5	<0.05	<0.05	<0.2	<0.005	1.97
K242250		80	13.5	1.9	<0.002	0.04	0.55	0.3	1	<0.2	119.0	<0.05	<0.05	0.2	0.005	0.16
DD027064		1300	80.0	4.0	<0.002	0.02	10.80	0.8	1	0.4	48.0	0.05	0.05	0.4	0.021	0.50
DD027065		580	10.9	9.9	<0.002	0.01	0.61	1.7	1	0.4	52.7	0.11	<0.05	1.0	0.052	0.45
L842601		270	8.4	15.9	0.002	0.03	1.73	1.6	2	0.2	218	0.07	<0.05	1.1	0.038	0.57
L842602		270	4.6	9.5	<0.002	0.03	0.17	1.1	1	0.2	567	<0.05	<0.05	0.9	0.019	0.07
L842603		670	6.7	32.7	0.005	0.12	1.54	3.1	2	0.5	356	0.15	<0.05	2.2	0.077	0.30
L842604		640	1.7	9.5	<0.002	0.03	0.07	1.9	2	0.6	1310	0.84	0.05	3.6	0.114	0.07
L842605		110	2.3	3.5	<0.002	0.52	0.50	1.7	2	<0.2	273	0.08	0.06	0.3	0.033	0.12
I357914		2860	7.9	17.5	0.018	0.20	5.07	4.1	12	0.5	155.0	0.12	0.10	1.5	0.050	0.50
I357915		660	325	2.5	0.003	0.01	57.1	7.2	13	<0.2	43.7	0.08	0.13	0.4	0.007	91.5
I357916		7230	285	6.4	0.005	0.05	9.73	5.7	5	0.2	1195	0.07	0.09	0.7	0.018	186.0
I357917		1590	28.0	41.1	0.002	0.15	22.8	7.1	9	1.0	221	0.30	0.21	3.9	0.141	5.51
I357918		160	99.7	3.7	<0.002	0.12	5.08	1.8	2	0.2	132.5	<0.05	<0.05	0.3	0.009	2.16
I357919		40	8.1	1.1	<0.002	<0.01	1.19	0.9	2	<0.2	120.0	<0.05	0.05	<0.2	<0.005	0.13
I357920		840	13.3	3.0	<0.002	0.01	5.89	1.7	78	<0.2	24.5	<0.05	<0.05	0.3	0.006	1.03
I357921		600	46.1	11.5	<0.002	0.01	0.90	2.0	2	0.3	121.5	0.06	<0.05	0.9	0.029	0.15
I357922		1360	75.4	57.1	0.002	0.05	14.05	10.4	15	1.2	150.0	0.38	0.08	5.9	0.159	3.44
I357923		160	16.4	2.0	<0.002	0.02	0.79	3.1	3	<0.2	102.5	<0.05	0.05	0.2	<0.005	0.29
I357924		150	9.2	0.9	<0.002	0.01	0.41	4.7	2	<0.2	72.0	<0.05	<0.05	<0.2	<0.005	0.20
I357925		800	4.0	11.7	<0.002	0.31	7.00	13.9	17	0.2	294	<0.05	<0.05	1.4	0.017	29.7
I357926		730	8.0	15.3	<0.002	0.27	39.7	5.4	11	0.3	87.5	0.08	0.05	1.3	0.037	2.11
I357927		920	77.5	17.3	0.002	0.15	14.95	6.4	55	0.8	63.4	0.13	0.05	1.8	0.054	11.55
I357928		1680	16.4	82.3	<0.002	0.26	28.4	7.7	4	1.7	381	1.02	0.15	9.6	0.298	15.10
I357929		740	4.3	11.7	<0.002	0.28	0.16	2.0	2	0.3	789	0.68	<0.05	2.1	0.124	0.13
I357930		620	10.9	7.6	0.051	0.07	5.63	1.2	3	0.3	20.0	0.08	0.09	0.7	0.029	0.43
I357931		80	1.5	11.9	<0.002	<0.01	0.08	1.2	1	0.2	182.0	0.08	<0.05	1.4	0.029	0.21
I357932		990	78.9	32.2	<0.002	0.13	0.61	5.0	2	1.1	40.8	0.45	<0.05	11.6	0.175	0.23



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		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg	Pb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1	0.01	0.01
K242245		1.2	11	0.1	0.8	38	1.4							
K242246		0.5	10	0.1	0.9	85	1.1							
K242247		1.7	4	0.1	0.8	24	1.6							
K242248		1.4	7	0.1	1.4	19	4.6							
K242249		1.2	4	0.1	0.7	>10000	0.9			1.570				
K242250		3.0	6	0.2	1.0	1490	2.1							
DD027064		1.5	15	0.8	5.9	797	7.5							
DD027065		1.0	17	0.4	4.0	151	10.7							
L842601		3.9	55	0.2	6.8	545	10.6							
L842602		0.9	14	0.1	8.0	30	5.6							
L842603		2.5	142	0.3	16.9	102	19.7							
L842604		0.6	13	0.4	13.3	23	72.5							
L842605		1.0	19	0.1	3.9	14	4.6							
I357914		7.6	184	0.3	12.7	145	17.3							
I357915		67.4	7170	3.2	349	>10000	7.5			3.38	3.72			
I357916		40.6	1520	1.2	154.5	3630	10.7				7.95			
I357917		8.2	1240	1.6	29.2	262	41.6							
I357918		12.4	30	0.7	12.3	192	4.2							
I357919		1.8	14	0.3	6.9	44	1.7							
I357920		3.5	87	0.7	44.7	>10000	4.8			1.690	1.055			
I357921		1.7	18	1.8	17.1	252	9.5							
I357922		5.9	280	3.6	176.0	2450	55.9				1.345			
I357923		5.5	29	0.6	12.1	63	2.9							
I357924		6.4	32	0.3	13.0	54	2.6							
I357925		6.6	412	0.9	41.2	4070	19.3				3.94			
I357926		4.5	646	4.1	48.1	6870	33.4				2.69			
I357927		6.9	200	3.1	56.1	7040	28.2				2.63			
I357928		8.9	701	3.8	18.6	184	95.3							
I357929		0.7	15	0.5	8.0	33	48.1							
I357930		2.9	576	0.3	3.7	68	10.8							
I357931		1.2	7	0.1	6.4	11	10.8							
I357932		3.7	31	0.8	24.7	79	95.4							



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To: ATAC RESOURCES LTD.  
C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 20- JUL- 2012  
Account: RCM

Project: ATAC- Regional Area

**CERTIFICATE OF ANALYSIS WH12147401**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
Hg- CV42	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12147403**

Project: ATAC- Regional- Area F (Crag N)  
 P.O. No.: Silt 7  
 This report is for 129 Silt samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027401		0.13	0.005	1.54	0.70	18.3	<0.2	10	1010	0.56	0.15	2.98	3.02	13.10	5.2	22
DD027411		0.19	0.006	0.39	1.54	25.4	<0.2	<10	250	1.04	0.20	5.15	6.14	27.7	17.3	30
DD027412		0.27	0.004	0.22	0.95	12.2	<0.2	<10	170	0.57	0.15	5.86	0.78	24.2	8.9	18
DD027413		0.23	0.004	0.68	0.76	11.9	<0.2	<10	470	0.58	0.13	6.85	2.53	15.85	8.3	20
DD027414		0.26	0.004	0.92	0.99	15.5	<0.2	<10	540	0.77	0.16	4.61	4.96	16.45	10.2	24
DD027415		0.25	0.003	0.27	0.73	7.7	<0.2	<10	240	0.45	0.11	6.73	0.68	18.45	6.3	15
DD027416		0.31	0.003	0.28	0.54	8.1	<0.2	<10	220	0.41	0.12	9.93	0.72	13.80	6.0	12
DD027417		0.33	0.003	0.29	0.60	7.5	<0.2	<10	270	0.39	0.13	8.16	0.80	16.30	6.0	13
DD027418		0.30	0.003	0.40	0.65	8.6	<0.2	<10	320	0.46	0.14	6.85	1.24	16.70	7.1	15
DD027419		0.24	0.003	0.35	0.70	7.7	<0.2	<10	320	0.46	0.14	6.05	1.04	17.75	6.9	16
DD027420		0.32	0.004	0.58	0.69	11.7	<0.2	<10	380	0.52	0.14	8.91	3.21	15.95	7.9	17
DD027421		0.26	0.004	0.60	0.69	13.7	<0.2	<10	380	0.55	0.15	8.18	2.43	16.85	9.0	17
DD027422		0.21	0.004	0.63	0.69	15.9	<0.2	<10	380	0.53	0.15	8.94	2.63	17.25	8.6	17
DD027423		0.47	0.003	0.45	0.66	10.5	<0.2	<10	300	0.43	0.13	8.58	1.10	17.80	6.4	14
DD027424		0.23	0.004	0.61	0.75	10.9	<0.2	<10	510	0.54	0.19	4.92	2.09	20.8	8.9	26
DD027425		0.23	0.004	1.27	0.88	28.4	<0.2	<10	480	0.78	0.16	8.63	10.25	14.65	14.4	24
DD027426		0.20	0.001	1.25	1.10	38.4	<0.2	<10	540	1.00	0.18	8.59	10.50	18.15	17.8	26
DD027427		0.58	0.004	0.18	1.28	56	<0.2	<10	260	1.08	0.14	14.35	6.99	17.65	24.1	18
DD027428		0.19	0.003	0.22	1.40	60.2	<0.2	<10	240	1.29	0.18	6.49	8.60	24.0	30.7	23
DD027271		0.29	0.004	1.64	0.55	16.6	<0.2	<10	360	0.39	0.16	3.40	2.14	17.35	5.0	34
DD027272		0.14	0.004	2.09	0.43	12.4	<0.2	<10	480	0.28	0.12	1.75	3.70	13.60	4.2	28
DD027273		0.32	0.004	1.23	0.60	15.7	<0.2	<10	380	0.39	0.14	3.12	1.91	17.80	6.6	31
DD027274		0.37	0.004	1.39	0.50	14.3	<0.2	<10	370	0.26	0.13	3.52	1.36	15.90	4.5	25
DD027275		0.25	0.004	1.40	0.47	12.0	<0.2	<10	1570	0.29	0.13	0.85	2.24	18.05	4.3	23
DD027276		0.24	0.004	1.41	0.57	29.8	<0.2	<10	120	0.77	0.33	1.55	4.23	34.2	15.0	12
DD027277		0.21	0.004	0.86	0.62	20.3	<0.2	<10	550	0.72	0.31	1.08	6.41	33.8	14.2	19
DD027278		0.19	0.004	1.12	0.57	23.8	<0.2	<10	1290	0.70	0.24	1.41	7.40	27.3	12.3	22
DD027279		0.27	0.006	0.94	0.79	10.1	<0.2	<10	840	0.49	0.17	0.99	8.66	34.1	9.4	24
DD027280		0.31	0.003	1.22	0.59	20.4	<0.2	<10	1040	0.67	0.28	1.45	13.00	32.7	14.7	23
DD027281		0.25	0.007	0.45	0.86	17.9	<0.2	<10	190	0.84	0.42	1.46	11.70	29.7	17.9	16
DD027282		0.36	0.004	0.77	0.86	19.8	<0.2	<10	1050	0.89	0.34	1.32	8.69	30.5	14.9	22
DD027283		0.34	0.004	0.83	0.85	18.3	<0.2	<10	930	0.83	0.31	1.40	5.64	31.5	14.7	28
DD027284		0.26	0.004	1.10	0.75	20.1	<0.2	<10	1310	0.83	0.29	1.44	7.01	30.1	14.0	24
DD027285		0.28	0.005	0.78	0.78	17.0	<0.2	<10	970	0.77	0.29	1.49	5.67	30.2	13.4	27
DD027286		0.22	0.005	0.77	0.82	16.0	<0.2	<10	880	0.76	0.28	1.37	5.48	27.8	14.0	26
DD027287		0.21	0.002	0.56	0.55	98.6	<0.2	<10	1060	0.32	0.14	1.95	1.29	15.20	5.1	15
DD027288		0.23	0.002	0.64	0.41	12.8	<0.2	<10	790	0.36	0.17	1.36	1.60	19.00	5.8	13
DD027289		0.27	0.001	0.63	0.69	8.9	<0.2	<10	630	0.45	0.19	1.26	1.44	16.75	5.0	22
DD027290		0.16	0.019	11.55	0.96	156.0	<0.2	<10	1440	1.07	0.32	1.27	19.00	44.6	17.4	28
ZZ69226		0.16	0.003	1.05	0.54	11.7	<0.2	<10	370	0.46	0.23	0.62	0.78	29.2	9.1	13



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 Account: RCM

Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD027401		0.74	49.0	1.82	1.86	0.06	0.10	0.29	0.021	0.13	8.1	6.7	0.65	134	8.39	<0.01
DD027411		1.14	44.1	2.96	3.56	0.05	0.04	0.32	0.025	0.07	16.9	12.1	0.93	435	3.52	0.01
DD027412		0.90	20.8	2.53	2.63	0.07	0.06	0.04	0.021	0.08	10.8	13.3	3.25	401	1.42	0.01
DD027413		1.00	35.6	2.03	1.91	0.05	0.07	0.17	0.024	0.08	11.1	7.4	1.37	210	2.38	0.01
DD027414		1.47	50.8	2.41	2.23	0.05	0.06	0.44	0.028	0.10	9.4	8.8	1.51	245	3.15	0.01
DD027415		0.78	21.0	1.87	2.00	<0.05	0.05	0.05	0.017	0.07	9.3	10.3	2.29	283	1.28	0.01
DD027416		0.66	19.2	1.68	1.50	0.05	0.04	0.08	0.016	0.06	7.6	8.3	2.95	252	1.47	0.01
DD027417		0.69	19.7	1.72	1.61	<0.05	0.04	0.08	0.019	0.06	8.9	8.0	2.40	248	1.46	0.01
DD027418		0.75	24.7	1.76	1.81	0.06	0.04	0.10	0.018	0.08	9.3	9.0	2.66	207	1.62	0.01
DD027419		0.82	23.0	1.77	1.93	0.05	0.05	0.12	0.018	0.07	10.0	9.3	1.86	235	1.40	0.01
DD027420		0.95	29.8	1.82	1.81	0.05	0.04	0.17	0.022	0.08	9.2	8.4	2.52	268	2.34	0.01
DD027421		0.87	27.9	1.83	1.92	0.06	0.04	0.15	0.022	0.08	9.8	8.9	2.56	250	2.44	0.01
DD027422		0.88	29.4	1.89	1.82	0.05	0.05	0.14	0.022	0.08	9.4	8.6	2.58	270	2.61	0.01
DD027423		0.93	24.3	1.68	1.88	0.05	0.05	0.07	0.020	0.06	8.4	9.2	2.66	274	2.15	0.01
DD027424		0.84	31.4	2.08	2.10	0.08	0.05	0.15	0.033	0.08	19.7	7.6	0.96	214	2.05	0.01
DD027425		1.55	54.8	2.13	1.75	0.05	0.05	0.51	0.027	0.09	9.3	6.5	1.51	261	4.32	0.01
DD027426		1.28	56.7	2.37	2.16	0.06	0.05	0.62	0.030	0.10	11.3	8.5	1.89	323	4.30	0.01
DD027427		1.24	42.7	1.95	2.09	<0.05	0.06	0.51	0.023	0.06	10.4	7.5	2.27	354	2.40	0.01
DD027428		1.21	47.2	2.45	2.73	0.05	0.06	0.75	0.031	0.07	14.5	9.4	1.99	445	2.62	0.01
DD027271		1.58	23.6	2.03	1.45	0.05	0.05	0.12	0.027	0.07	15.2	4.2	1.56	373	1.80	0.01
DD027272		4.53	35.3	1.71	1.21	0.05	0.07	0.15	0.020	0.10	10.9	3.4	0.33	180	2.27	0.01
DD027273		2.41	22.8	2.08	1.58	0.07	0.04	0.09	0.021	0.08	12.7	5.4	1.31	379	2.25	0.01
DD027274		1.93	18.8	1.59	1.28	0.05	0.05	0.15	0.018	0.06	9.9	4.3	1.72	152	1.57	0.01
DD027275		0.82	27.3	1.67	1.32	0.05	0.05	0.09	0.022	0.08	11.7	4.2	0.12	181	4.23	0.01
DD027276		3.83	43.7	3.25	2.32	0.06	0.06	0.33	0.060	0.11	16.0	8.3	0.71	464	3.20	<0.01
DD027277		2.94	50.5	3.21	2.10	0.05	0.04	0.20	0.036	0.11	17.2	8.4	0.43	426	5.84	<0.01
DD027278		2.38	41.2	2.67	2.08	0.05	0.05	0.27	0.047	0.12	14.3	7.5	0.51	368	4.79	0.01
DD027279		1.16	51.0	2.46	2.22	0.06	0.06	0.24	0.029	0.11	18.0	10.5	0.24	249	4.83	0.01
DD027280		2.85	57.5	3.00	2.19	0.07	0.04	0.20	0.041	0.11	17.1	8.0	0.62	416	8.02	0.01
DD027281		2.80	53.9	3.62	2.82	0.05	0.04	0.28	0.034	0.11	13.3	16.3	0.77	751	2.23	<0.01
DD027282		2.30	52.5	3.42	2.89	0.07	0.04	0.23	0.036	0.10	15.0	14.1	0.66	503	4.73	0.01
DD027283		2.09	56.0	3.27	2.97	0.06	0.02	0.13	0.033	0.10	16.4	14.9	0.60	519	7.35	0.01
DD027284		2.17	54.3	3.13	2.56	0.06	0.05	0.16	0.036	0.11	15.2	12.4	0.63	517	12.85	0.01
DD027285		1.89	51.3	3.11	2.71	0.07	0.02	0.13	0.029	0.09	15.3	13.5	0.60	481	7.31	<0.01
DD027286		1.91	51.2	3.18	2.83	0.07	0.04	0.12	0.033	0.09	14.2	14.2	0.59	515	6.80	<0.01
DD027287		1.46	22.7	4.60	1.53	<0.05	0.05	0.11	0.016	0.06	8.2	6.5	0.58	686	2.37	0.01
DD027288		5.43	21.4	2.12	1.09	<0.05	0.03	0.09	0.025	0.07	10.5	5.5	0.54	125	1.40	0.01
DD027289		7.47	20.9	1.90	1.71	<0.05	0.05	0.15	0.019	0.08	9.0	8.2	0.28	177	0.98	0.01
DD027290		1.38	251	4.20	2.10	0.11	0.06	3.54	0.055	0.17	25.0	6.3	0.21	1330	19.60	0.01
ZZ69226		5.41	27.9	2.70	1.28	0.05	0.05	0.16	0.028	0.11	15.6	6.0	0.16	206	1.39	<0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD027401		0.17	82.4	1630	12.8	8.3	0.035	0.21	3.29	2.4	9.7	0.4	119.5	<0.01	0.07	1.0
DD027411		0.66	163.0	1520	13.0	7.6	0.002	0.08	2.83	3.0	1.9	0.5	58.4	<0.01	0.07	0.9
DD027412		0.54	27.2	950	18.0	5.5	<0.001	0.03	0.88	3.9	0.7	0.3	68.7	<0.01	0.04	2.5
DD027413		0.33	94.8	1380	11.4	7.3	0.001	0.09	1.47	3.1	2.8	0.3	115.5	<0.01	0.07	1.2
DD027414		0.35	159.5	1810	12.5	10.8	0.002	0.13	1.90	3.1	3.6	0.4	105.5	<0.01	0.07	0.9
DD027415		0.47	26.1	860	11.8	4.7	0.001	0.04	0.78	3.1	0.9	0.3	132.0	<0.01	0.04	1.9
DD027416		0.28	26.9	760	11.8	4.1	0.002	0.03	0.79	2.9	1.1	0.3	161.0	<0.01	0.04	2.0
DD027417		0.33	29.7	850	11.7	4.7	0.002	0.04	0.80	3.0	1.3	0.2	129.5	<0.01	0.04	2.0
DD027418		0.36	36.5	1040	12.1	5.9	0.001	0.06	0.90	3.4	2.0	0.3	112.5	<0.01	0.04	1.7
DD027419		0.41	34.7	960	12.0	5.9	0.001	0.05	0.86	3.2	1.8	0.3	113.5	<0.01	0.04	1.8
DD027420		0.32	55.1	1120	12.5	6.8	0.003	0.07	1.31	3.4	3.1	0.3	154.0	<0.01	0.06	1.6
DD027421		0.35	58.1	1110	12.9	6.7	0.003	0.06	1.35	3.6	2.5	0.3	143.0	<0.01	0.05	1.7
DD027422		0.33	62.9	1120	12.7	6.2	0.003	0.06	1.42	3.5	2.6	0.3	150.5	<0.01	0.05	1.8
DD027423		0.40	28.2	780	11.9	4.7	0.002	0.02	1.26	3.5	1.6	0.3	152.5	<0.01	0.06	2.3
DD027424		0.34	54.7	1430	13.2	6.0	0.002	0.06	1.16	3.5	2.5	0.4	152.5	<0.01	0.08	1.5
DD027425		0.24	163.5	1900	11.6	9.0	0.012	0.12	2.60	3.2	6.9	0.4	134.5	<0.01	0.08	1.1
DD027426		0.29	188.5	2080	12.5	8.0	0.012	0.11	3.03	3.4	6.7	0.4	123.0	<0.01	0.09	1.1
DD027427		0.31	194.5	1210	10.5	5.2	0.001	0.05	2.62	2.8	1.9	0.4	97.4	<0.01	0.05	0.9
DD027428		0.43	203	1570	13.7	6.3	0.001	0.08	3.15	2.8	2.0	0.5	68.1	<0.01	0.05	0.9
DD027271		0.17	37.5	1530	21.8	5.9	0.003	0.08	1.86	2.4	3.1	0.3	45.9	<0.01	0.11	1.0
DD027272		0.14	57.0	1820	16.2	10.1	0.002	0.16	1.78	2.1	4.4	0.3	53.2	<0.01	0.08	1.0
DD027273		0.24	47.9	1820	17.2	11.0	0.002	0.11	1.77	2.5	5.0	0.3	50.9	<0.01	0.06	1.1
DD027274		0.22	43.3	1370	16.3	9.5	0.002	0.08	1.24	2.2	4.1	0.3	47.5	<0.01	0.07	1.2
DD027275		0.16	57.5	1560	9.5	7.1	0.003	0.13	1.48	2.0	3.8	0.3	52.7	<0.01	0.07	0.9
DD027276		0.10	35.6	1280	9.20	11.4	0.002	0.05	10.20	3.7	1.7	0.5	38.3	<0.01	0.04	2.1
DD027277		0.10	60.1	1730	292	10.7	0.005	0.06	3.51	3.3	2.7	0.4	46.3	<0.01	0.05	1.9
DD027278		0.13	63.3	1860	353	10.4	0.005	0.10	4.40	3.1	3.1	0.4	55.3	<0.01	0.05	1.6
DD027279		0.23	66.8	2150	15.2	10.2	0.003	0.08	1.82	3.4	2.2	0.4	48.6	<0.01	0.06	1.1
DD027280		0.11	96.3	1780	181.5	9.6	0.005	0.08	4.61	3.6	3.8	0.4	61.6	<0.01	0.06	2.0
DD027281		0.12	47.1	1180	118.5	9.5	0.002	0.05	1.83	4.1	1.4	0.4	37.6	<0.01	0.04	3.4
DD027282		0.12	86.1	1650	134.0	8.4	0.004	0.07	3.03	3.7	3.1	0.4	51.4	<0.01	0.06	2.7
DD027283		0.09	66.2	2040	81.7	7.9	0.008	0.07	3.34	3.9	3.4	0.5	57.2	<0.01	0.06	3.1
DD027284		0.15	75.7	1930	100.5	9.5	0.005	0.09	3.11	3.7	3.9	0.5	64.7	<0.01	0.05	2.3
DD027285		0.10	66.6	2110	74.0	7.5	0.005	0.06	3.30	3.6	3.2	0.4	58.3	<0.01	0.08	2.9
DD027286		0.11	66.6	1870	71.2	7.4	0.006	0.06	2.87	3.5	3.6	0.4	51.1	<0.01	0.06	2.6
DD027287		0.24	28.0	2390	16.0	6.2	0.003	0.08	1.40	2.3	2.4	0.2	50.9	<0.01	0.05	1.4
DD027288		0.09	31.5	540	17.6	13.3	0.002	0.07	1.05	2.7	1.6	0.2	26.1	<0.01	0.08	1.5
DD027289		0.24	28.3	880	15.9	19.1	0.004	0.12	0.82	2.2	2.0	0.3	29.0	<0.01	0.04	0.9
DD027290		0.17	208	3830	1535	11.8	0.011	0.29	45.5	6.1	8.4	0.8	177.5	<0.01	0.17	2.1
ZZ69226		0.09	42.6	690	22.2	12.7	0.002	0.08	1.14	3.8	1.7	0.3	16.8	<0.01	0.11	2.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027401		0.005	0.74	2.75	70	0.11	14.30	258	3.1
DD027411		0.024	0.51	1.96	82	0.21	32.3	743	1.4
DD027412		0.022	0.15	1.04	33	0.14	10.50	137	1.6
DD027413		0.011	0.26	1.99	37	0.11	25.7	356	1.8
DD027414		0.012	0.48	2.20	46	0.11	26.6	654	1.7
DD027415		0.019	0.11	0.99	28	0.26	12.95	112	1.5
DD027416		0.011	0.11	1.20	23	0.07	13.00	113	1.8
DD027417		0.013	0.14	1.17	26	0.18	14.10	131	1.6
DD027418		0.013	0.18	1.27	29	0.09	15.50	150	1.7
DD027419		0.015	0.16	1.12	28	0.09	16.15	152	1.6
DD027420		0.010	0.31	1.71	38	0.09	17.30	259	1.5
DD027421		0.010	0.29	1.88	41	0.11	19.95	258	1.8
DD027422		0.010	0.30	1.88	44	0.09	18.20	292	1.6
DD027423		0.015	0.23	1.25	34	0.10	12.10	119	2.4
DD027424		0.014	0.24	1.59	39	0.13	36.6	258	1.4
DD027425		0.007	0.66	3.48	68	0.10	29.6	798	1.9
DD027426		0.009	0.81	3.79	84	0.15	34.4	955	2.0
DD027427		0.011	0.72	3.35	63	0.12	32.6	894	2.0
DD027428		0.015	0.71	3.40	75	0.22	38.7	917	2.1
DD027271		0.006	0.27	1.91	39	0.08	31.4	329	1.5
DD027272		0.005	0.71	1.75	27	0.11	26.2	316	1.9
DD027273		0.010	0.41	1.57	33	0.12	26.4	325	1.6
DD027274		0.009	1.99	1.13	28	0.10	19.50	328	1.6
DD027275		0.006	0.29	3.21	46	0.10	20.2	270	1.9
DD027276		<0.005	0.34	1.69	21	0.07	13.60	1260	1.4
DD027277		<0.005	0.46	2.41	59	0.07	15.10	982	1.4
DD027278		<0.005	0.45	2.44	62	0.10	16.40	1300	1.7
DD027279		0.008	0.42	1.79	63	0.13	21.3	412	2.0
DD027280		<0.005	0.53	4.77	71	0.13	19.90	1360	1.3
DD027281		<0.005	0.39	1.36	32	<0.05	12.15	1000	1.3
DD027282		<0.005	0.46	2.97	52	0.09	15.80	1200	1.5
DD027283		<0.005	0.48	3.46	93	0.12	18.40	806	1.1
DD027284		0.005	0.55	2.89	69	0.11	18.65	918	1.7
DD027285		<0.005	0.47	3.23	103	0.11	17.10	804	1.1
DD027286		<0.005	0.47	2.76	91	0.10	15.95	794	1.5
DD027287		0.008	0.20	1.13	31	0.11	9.61	190	1.6
DD027288		<0.005	0.33	0.88	16	<0.05	10.45	330	1.7
DD027289		0.007	0.21	1.57	23	0.05	10.40	239	1.5
DD027290		0.009	0.74	16.35	173	0.22	52.7	2090	2.3
ZZ69226		<0.005	0.14	1.08	18	<0.05	14.75	180	1.9



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**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69227		0.30	0.012	3.17	0.65	104.5	<0.2	<10	550	0.84	0.23	1.74	17.30	39.4	23.5	29
ZZ69228		0.32	0.006	1.09	0.72	40.0	<0.2	<10	720	0.57	0.20	1.50	7.22	31.3	12.6	29
ZZ69229		0.32	0.006	0.62	0.71	35.1	<0.2	<10	750	0.54	0.15	1.58	5.37	31.3	11.6	28
ZZ69230		0.32	0.006	0.72	0.72	39.9	<0.2	<10	700	0.54	0.16	1.64	5.08	33.2	11.6	27
ZZ69231		0.26	0.007	0.84	0.68	44.9	<0.2	<10	660	0.48	0.17	2.09	5.54	28.2	11.3	25
ZZ69232		0.24	0.004	1.02	0.67	37.6	<0.2	<10	1010	0.49	0.17	1.62	4.76	27.0	11.2	24
ZZ69233		0.18	0.004	1.10	0.68	44.9	<0.2	<10	960	0.58	0.17	1.53	6.40	31.7	11.0	24
ZZ69234		0.18	0.007	0.72	0.72	49.4	<0.2	<10	990	0.60	0.17	1.35	5.85	32.9	11.7	25
DD027471		0.21	0.006	1.23	0.75	43.8	<0.2	10	450	0.61	0.16	2.28	3.07	12.70	6.2	27
DD027472		0.33	0.003	0.85	0.97	19.2	<0.2	10	550	0.68	0.17	1.40	1.38	15.70	7.6	27
DD027473		0.25	0.005	0.92	0.92	36.6	<0.2	10	650	0.59	0.17	1.39	1.25	14.20	6.1	29
DD027474		0.38	0.003	0.48	0.78	9.1	<0.2	<10	430	0.46	0.13	2.51	0.76	15.75	6.9	18
DD027475		0.33	0.004	0.89	1.02	19.2	<0.2	10	460	0.62	0.17	1.56	1.52	17.20	8.8	26
DD027476		0.25	0.004	0.66	0.90	22.9	<0.2	10	380	0.51	0.15	1.49	1.92	16.25	7.4	23
DD027477		0.21	0.005	1.47	0.34	2	<0.2	20	310	0.37	0.11	10.60	3.96	6.82	3.9	15
DD027478		0.54	0.002	0.66	0.71	14.1	<0.2	10	360	0.49	0.12	7.53	0.56	13.00	9.5	15
DD027479		0.38	0.003	0.91	0.56	16.6	<0.2	10	430	0.42	0.12	6.42	0.94	11.05	6.8	14
DD027480		0.37	0.003	0.98	0.58	16.0	<0.2	10	370	0.44	0.13	7.41	1.18	10.30	6.5	15
DD027481		0.29	0.002	0.77	0.51	16.1	<0.2	10	360	0.41	0.10	6.36	0.76	10.25	7.1	13
DD027482		0.28	0.003	0.76	0.52	13.6	<0.2	10	360	0.38	0.10	6.40	0.73	9.99	6.7	13
DD027483		0.31	0.002	0.79	0.57	14.8	<0.2	10	360	0.42	0.11	8.74	0.88	10.70	7.0	14
DD027484		0.27	0.003	0.85	0.54	14.1	<0.2	10	360	0.44	0.11	8.73	0.90	10.80	6.9	14
DD027485		0.26	0.005	0.90	1.08	13.7	<0.2	10	390	0.62	0.23	2.10	1.80	28.3	9.6	28
DD027486		0.34	0.003	0.85	0.94	12.5	<0.2	<10	370	0.76	0.20	2.94	1.38	20.4	11.1	25
DD027487		0.27	0.004	0.91	0.83	14.0	<0.2	10	370	0.68	0.17	4.64	2.43	22.7	11.0	25
DD027488		0.25	0.003	1.29	0.70	13.8	<0.2	10	550	0.47	0.17	4.87	2.09	17.45	9.2	23
DD027489		0.30	0.004	1.39	0.42	12.2	<0.2	<10	610	0.32	0.14	3.79	1.09	15.70	5.1	17
DD027490		0.32	0.003	0.69	0.61	16.6	<0.2	<10	670	0.44	0.17	3.94	0.49	15.40	7.8	13
DD027491		0.20	0.007	1.48	0.63	18.8	<0.2	10	1340	0.62	0.16	3.64	5.23	12.95	5.6	18
DD027492		0.32	0.007	2.05	0.68	20.2	<0.2	10	820	0.52	0.16	3.11	5.87	15.30	6.6	23
DD027493		0.34	0.007	1.69	0.74	22.3	<0.2	10	950	0.66	0.21	2.28	4.09	17.80	5.8	23
DD027494		0.34	0.004	0.68	0.67	5.2	<0.2	10	410	0.45	0.13	1.46	0.65	13.60	5.5	18
DD027495		0.20	0.005	0.77	0.75	6.3	<0.2	10	470	0.48	0.14	1.48	0.97	13.30	8.3	20
DD027496		0.19	0.004	0.36	0.63	6.9	<0.2	10	390	0.38	0.10	7.36	0.83	10.40	6.0	12
DD027497		0.22	0.003	0.94	0.79	6.0	<0.2	10	430	0.54	0.17	2.59	1.90	14.50	7.2	25
DD027498		0.20	0.006	0.85	0.71	5.2	<0.2	10	490	0.48	0.14	2.37	1.00	8.68	4.3	22
DD027499		0.17	0.003	0.79	0.70	5.2	<0.2	10	470	0.35	0.12	2.33	2.69	9.46	3.4	24
DD027500		0.21	0.002	0.43	1.14	7.4	<0.2	10	580	0.42	0.15	1.96	1.79	14.05	5.0	40
DD027101		0.15	0.002	0.27	1.06	9.0	<0.2	<10	240	0.43	0.24	0.69	0.99	16.05	6.1	24
DD027102		0.14	0.005	0.24	1.15	9.2	<0.2	<10	220	0.46	0.23	0.24	1.08	20.5	7.6	23



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ69227		1.99	175.0	3.97	1.65	0.09	0.03	1.30	0.045	0.14	21.7	4.3	0.46	800	18.90	0.01
ZZ69228		1.22	69.8	2.60	2.26	0.06	0.05	0.48	0.027	0.11	16.7	9.0	0.72	483	8.05	0.01
ZZ69229		1.13	52.4	2.51	2.26	0.07	0.05	0.43	0.026	0.10	17.5	9.7	0.84	437	6.93	0.01
ZZ69230		1.32	51.9	2.48	2.36	0.06	0.05	0.39	0.035	0.11	18.2	9.6	0.86	454	7.40	0.01
ZZ69231		1.23	60.4	2.57	2.05	0.07	0.05	0.58	0.028	0.13	15.1	8.5	0.96	468	7.54	0.01
ZZ69232		1.10	55.8	2.35	2.10	0.07	0.06	0.51	0.029	0.10	15.5	7.7	0.62	536	8.08	0.01
ZZ69233		1.31	66.8	2.45	2.16	0.08	0.06	0.66	0.032	0.12	17.5	7.8	0.58	591	8.77	0.01
ZZ69234		1.29	59.4	2.47	2.39	0.07	0.06	0.47	0.036	0.13	18.1	8.6	0.53	623	8.91	0.01
DD027471		0.61	36.8	2.01	2.25	0.05	0.08	0.40	0.028	0.08	8.8	6.7	0.44	190	3.89	0.01
DD027472		0.61	28.9	2.24	2.86	0.06	0.05	0.27	0.032	0.06	9.9	10.5	0.28	430	2.67	<0.01
DD027473		0.82	26.5	2.10	2.74	0.05	0.06	1.01	0.035	0.07	9.8	7.0	0.21	166	3.27	0.01
DD027474		0.59	23.5	1.86	2.28	0.05	0.04	0.19	0.023	0.07	9.5	9.6	0.97	270	1.54	0.01
DD027475		0.62	31.2	2.44	3.01	0.06	0.05	0.42	0.033	0.08	10.4	12.4	0.40	312	2.57	0.01
DD027476		0.58	24.8	1.95	2.55	0.06	0.05	0.93	0.025	0.08	9.9	9.5	0.34	189	2.63	0.01
DD027477		0.51	32.9	1.17	0.76	0.05	0.08	0.13	0.027	0.07	4.4	2.1	0.08	121	1.02	0.01
DD027478		0.90	30.5	2.66	1.97	0.06	0.07	0.09	0.023	0.08	7.6	12.7	1.21	475	2.28	0.01
DD027479		0.59	27.4	2.38	1.49	<0.05	0.06	0.09	0.025	0.07	6.6	8.0	0.86	369	2.60	0.01
DD027480		0.57	28.5	2.21	1.46	0.06	0.06	0.13	0.022	0.08	6.3	8.1	0.71	334	2.38	0.01
DD027481		0.61	25.4	2.32	1.39	0.05	0.05	0.08	0.023	0.06	6.4	7.7	0.89	391	2.66	0.01
DD027482		0.62	24.4	2.17	1.35	0.05	0.06	0.07	0.021	0.07	6.1	7.5	0.90	366	2.33	0.01
DD027483		0.62	25.5	2.26	1.53	0.06	0.06	0.09	0.023	0.07	6.4	9.3	1.07	358	2.37	0.01
DD027484		0.69	27.1	2.16	1.54	0.05	0.05	0.09	0.018	0.07	6.5	8.3	0.92	352	2.38	0.02
DD027485		2.97	27.0	2.70	2.70	0.06	0.08	0.11	0.041	0.10	22.6	10.2	1.07	318	1.76	0.01
DD027486		3.29	29.4	2.49	2.39	0.07	0.08	0.11	0.036	0.08	18.0	11.9	1.47	236	1.75	0.01
DD027487		3.19	27.8	2.13	2.27	0.08	0.09	0.14	0.041	0.10	19.2	9.7	2.57	251	1.46	0.01
DD027488		3.05	27.9	1.97	1.86	0.05	0.08	0.17	0.030	0.11	15.0	7.7	2.64	294	2.12	0.01
DD027489		1.82	23.4	1.49	1.23	0.05	0.04	0.09	0.023	0.07	11.3	4.9	1.98	171	1.76	0.01
DD027490		2.10	20.2	2.35	1.53	0.05	0.07	0.09	0.029	0.08	9.5	10.4	2.06	99	1.07	0.01
DD027491		0.75	49.3	1.81	1.52	0.07	0.09	0.22	0.027	0.09	8.7	4.9	0.26	179	8.96	0.01
DD027492		0.84	47.6	1.96	1.77	0.07	0.09	0.30	0.031	0.10	10.6	5.7	0.35	268	11.70	0.01
DD027493		0.74	44.2	1.99	1.97	0.07	0.09	0.21	0.033	0.11	11.4	6.2	0.56	145	12.10	0.01
DD027494		0.56	21.0	1.47	1.96	0.05	0.05	0.13	0.024	0.07	10.1	7.6	0.23	143	0.68	0.01
DD027495		0.69	24.5	1.85	2.09	0.05	0.05	0.19	0.027	0.06	10.1	6.3	0.21	494	1.06	0.01
DD027496		0.51	25.6	1.70	1.79	<0.05	0.06	0.16	0.017	0.05	6.4	7.0	2.80	687	1.07	0.02
DD027497		0.87	32.4	1.97	2.21	0.07	0.08	0.33	0.033	0.08	15.7	6.9	0.24	195	1.33	0.01
DD027498		0.63	29.6	1.82	1.66	<0.05	0.05	0.23	0.024	0.08	7.0	5.2	0.17	148	1.03	0.01
DD027499		0.72	29.0	1.31	1.86	<0.05	0.05	0.20	0.017	0.07	6.4	5.4	0.16	105	1.05	0.01
DD027500		0.99	22.7	1.95	2.63	<0.05	0.03	0.18	0.020	0.06	7.0	9.7	0.27	233	0.97	0.01
DD027101		1.44	17.6	2.20	4.25	<0.05	0.02	0.04	0.028	0.06	10.8	7.4	0.17	469	1.55	0.01
DD027102		2.09	17.2	2.23	4.26	<0.05	<0.02	0.04	0.030	0.07	12.5	10.6	0.26	446	1.42	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69227		0.11	234	3310	242	9.9	0.013	0.22	15.00	5.0	8.3	0.6	186.5	<0.01	0.15	2.3
ZZ69228		0.25	104.5	1740	79.8	8.5	0.005	0.11	4.74	3.6	4.4	0.4	102.5	<0.01	0.10	2.4
ZZ69229		0.28	81.0	1730	66.4	7.8	0.005	0.11	4.56	3.1	2.6	0.4	88.0	<0.01	0.09	2.8
ZZ69230		0.32	77.3	1660	95.7	8.5	0.006	0.11	4.95	3.2	3.2	0.4	88.3	<0.01	0.11	3.0
ZZ69231		0.28	71.8	1820	125.0	7.8	0.009	0.23	6.44	3.3	4.2	0.4	95.8	<0.01	0.10	2.7
ZZ69232		0.27	75.3	1470	92.9	7.9	0.011	0.12	5.39	3.0	3.6	0.5	83.8	<0.01	0.09	2.3
ZZ69233		0.26	77.2	1680	123.0	9.2	0.015	0.13	6.09	3.3	4.5	0.5	90.2	<0.01	0.09	2.4
ZZ69234		0.26	67.8	1730	133.0	9.7	0.010	0.13	6.44	3.3	3.5	0.5	93.5	<0.01	0.10	2.6
DD027471		0.32	63.9	1740	11.9	9.6	0.013	0.14	2.25	3.1	6.2	0.5	81.3	<0.01	0.08	1.0
DD027472		0.35	42.3	1470	17.0	7.5	0.004	0.08	1.26	2.9	1.9	0.5	60.9	<0.01	0.06	1.0
DD027473		0.34	45.1	1340	12.5	9.0	0.008	0.10	2.54	3.0	2.8	0.5	59.5	<0.01	0.10	0.9
DD027474		0.37	27.2	980	11.7	6.2	0.004	0.07	1.00	2.7	1.9	0.3	50.5	<0.01	0.02	1.0
DD027475		0.39	42.9	1260	14.2	7.6	0.002	0.08	1.52	3.5	2.6	0.5	50.8	<0.01	0.09	1.5
DD027476		0.41	40.4	1240	11.8	7.0	0.009	0.11	2.19	2.9	4.4	0.4	50.5	<0.01	0.06	1.5
DD027477		0.08	152.0	1080	6.9	7.7	0.004	0.37	0.73	2.3	3.0	0.3	173.0	<0.01	0.09	1.0
DD027478		0.18	59.6	990	13.4	6.6	0.005	0.12	0.68	3.3	2.2	0.3	177.0	<0.01	0.06	2.3
DD027479		0.12	60.6	1160	10.6	5.4	0.006	0.15	0.87	2.7	2.3	0.3	156.0	<0.01	0.10	1.8
DD027480		0.13	64.6	1030	10.6	5.7	0.004	0.19	0.81	2.7	2.5	0.3	161.0	<0.01	0.09	1.6
DD027481		0.11	57.0	1100	9.9	5.2	0.004	0.12	0.81	2.6	2.6	0.3	152.5	<0.01	0.07	1.8
DD027482		0.11	55.4	1060	9.5	5.4	0.005	0.12	0.74	2.5	2.2	0.2	150.0	<0.01	0.07	1.7
DD027483		0.13	57.3	1050	10.4	5.7	0.006	0.17	0.72	2.7	2.7	0.3	174.5	<0.01	0.06	1.8
DD027484		0.13	60.5	1040	10.2	6.0	0.003	0.17	0.79	2.8	2.8	0.3	177.5	<0.01	0.08	1.8
DD027485		0.35	43.1	1330	18.2	10.7	0.002	0.08	1.21	3.2	2.4	0.5	23.4	<0.01	0.13	1.5
DD027486		0.36	52.3	1310	19.6	9.2	0.001	0.10	1.35	3.0	2.0	0.4	29.6	<0.01	0.08	1.2
DD027487		0.34	49.9	1500	23.5	9.4	0.002	0.10	1.64	3.1	1.6	0.4	44.6	<0.01	0.14	1.3
DD027488		0.26	49.3	1560	21.0	9.5	0.002	0.14	1.71	2.8	2.7	0.4	49.2	<0.01	0.10	1.1
DD027489		0.17	33.6	1200	11.4	6.5	0.003	0.10	1.25	2.4	2.3	0.2	42.9	<0.01	0.07	1.6
DD027490		0.13	51.0	780	11.9	12.2	0.004	0.10	0.91	3.1	2.5	0.3	36.4	<0.01	0.06	1.4
DD027491		0.17	110.5	1720	11.8	7.7	0.016	0.26	3.85	2.0	8.4	0.4	160.0	<0.01	0.10	0.8
DD027492		0.17	101.5	1750	12.8	8.5	0.013	0.19	4.32	2.5	9.3	0.5	129.0	<0.01	0.11	1.0
DD027493		0.18	79.5	1900	15.7	8.0	0.012	0.19	4.42	2.7	10.2	0.4	121.0	<0.01	0.15	1.2
DD027494		0.34	29.2	1020	9.3	7.3	0.006	0.12	0.68	2.7	2.9	0.4	65.8	<0.01	0.06	1.3
DD027495		0.31	31.6	1130	9.7	8.4	0.011	0.13	0.78	2.8	3.5	0.4	56.4	<0.01	0.08	1.0
DD027496		0.28	22.8	960	8.3	5.6	0.003	0.20	0.97	1.7	3.5	0.2	98.7	<0.01	0.03	0.5
DD027497		0.34	53.5	1350	13.0	11.5	0.003	0.16	1.03	3.1	3.9	0.4	89.0	<0.01	0.07	0.9
DD027498		0.24	49.4	1390	9.4	13.3	0.005	0.16	0.80	2.0	2.7	0.3	67.0	<0.01	0.05	0.5
DD027499		0.34	52.7	2160	7.4	14.2	0.021	0.28	0.78	1.3	5.5	0.3	62.8	<0.01	0.05	0.4
DD027500		0.46	55.0	2170	9.6	12.6	0.006	0.22	0.78	1.2	3.5	0.4	42.5	<0.01	0.02	0.4
DD027101		0.38	28.2	1460	22.2	14.8	<0.001	0.09	0.65	1.1	0.7	0.5	21.6	<0.01	0.05	0.3
DD027102		0.31	27.1	970	14.1	14.9	0.001	0.05	0.56	0.9	1.0	0.6	16.6	<0.01	0.04	0.2





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69227		0.005	0.84	7.32	152	0.19	37.1	1830	1.6
ZZ69228		0.009	0.45	3.36	90	0.17	17.35	661	1.8
ZZ69229		0.010	0.40	2.50	78	0.29	14.30	531	2.3
ZZ69230		0.010	0.46	2.50	79	0.12	14.50	553	2.5
ZZ69231		0.009	0.43	2.98	78	0.13	15.30	643	2.4
ZZ69232		0.008	0.64	3.12	78	0.16	14.20	529	2.7
ZZ69233		0.007	0.69	3.22	90	0.16	16.50	640	2.7
ZZ69234		0.007	0.55	3.03	106	0.20	16.15	601	2.9
DD027471		0.006	0.63	3.30	75	0.12	22.7	289	2.6
DD027472		0.006	0.30	2.35	55	0.19	19.30	211	2.0
DD027473		0.007	0.87	3.09	67	0.10	22.2	216	2.1
DD027474		0.009	0.17	1.69	32	0.10	15.50	127	1.5
DD027475		0.007	0.32	1.79	51	0.10	20.1	188	2.2
DD027476		0.009	0.67	1.94	52	0.10	17.90	197	2.1
DD027477		<0.005	0.17	1.31	16	0.05	16.55	402	3.1
DD027478		<0.005	0.11	1.82	23	0.08	13.65	377	2.8
DD027479		<0.005	0.12	2.03	25	<0.05	14.70	402	2.3
DD027480		<0.005	0.14	1.99	24	0.06	14.25	440	2.3
DD027481		<0.005	0.12	1.82	23	<0.05	14.45	394	2.3
DD027482		<0.005	0.11	1.67	23	<0.05	13.65	375	2.2
DD027483		<0.005	0.11	1.90	23	0.05	13.70	401	2.3
DD027484		<0.005	0.13	1.99	23	0.05	14.85	403	2.5
DD027485		0.010	0.25	1.97	42	0.11	32.5	234	2.2
DD027486		0.011	0.22	2.00	36	0.08	33.7	265	2.1
DD027487		0.009	0.38	2.07	36	0.12	35.0	299	2.7
DD027488		0.008	0.46	2.11	32	0.15	30.3	270	2.5
DD027489		0.006	0.32	1.32	24	0.07	19.65	149	1.8
DD027490		<0.005	0.19	0.89	17	<0.05	14.15	203	2.4
DD027491		0.005	0.85	3.37	75	0.11	19.25	438	3.7
DD027492		0.005	0.93	3.43	85	0.12	19.30	454	3.4
DD027493		0.005	0.97	3.19	91	0.13	20.2	364	3.5
DD027494		0.006	0.15	1.33	27	0.05	19.00	125	2.0
DD027495		0.007	0.13	1.82	31	0.06	21.3	137	2.0
DD027496		0.006	0.10	2.19	21	0.08	11.35	94	2.3
DD027497		0.007	0.26	1.40	29	0.08	33.4	191	2.4
DD027498		0.006	0.16	1.34	28	0.06	18.80	191	2.0
DD027499		0.007	0.17	3.32	25	0.09	16.20	169	1.7
DD027500		0.012	0.18	4.27	37	0.09	9.92	199	1.3
DD027101		0.013	0.24	1.01	45	0.16	11.40	147	<0.5
DD027102		0.014	0.17	0.92	41	0.20	9.77	112	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027103		0.16	0.002	0.27	1.42	10.0	<0.2	<10	210	0.61	0.22	0.31	1.12	27.2	7.4	26
DD027104		0.09	0.006	0.36	1.07	8.4	<0.2	10	380	0.62	0.18	1.13	0.94	17.15	5.4	25
DD027105		0.18	0.004	0.47	1.17	11.1	<0.2	<10	390	0.64	0.20	1.43	0.91	23.4	8.2	26
DD027106		0.16	0.003	0.38	1.23	10.5	<0.2	<10	400	0.57	0.19	0.92	0.61	22.8	7.6	26
DD027107		0.16	0.005	0.25	1.65	12.7	<0.2	<10	450	0.57	0.25	0.33	0.30	22.3	7.9	32
DD027108		0.17	0.003	0.13	0.62	20	<0.2	<10	80	0.39	0.17	11.05	0.44	16.90	6.7	12
DD027109		0.25	0.002	0.09	0.45	15	<0.2	<10	100	0.47	0.22	12.00	0.50	18.65	6.9	10
DD027110		0.17	0.003	0.17	0.60	12	<0.2	<10	180	0.31	0.12	12.25	0.71	16.50	6.3	11
DD027146		0.24	0.007	0.24	1.43	58.9	<0.2	10	330	0.80	0.28	0.76	0.95	15.50	36.8	148
DD020147		0.22	0.001	0.07	0.42	11	<0.2	10	40	0.26	0.06	16.85	0.65	7.18	1.9	8
DD020148		0.23	0.002	0.09	0.65	12	<0.2	<10	60	0.37	0.11	13.65	0.39	12.95	3.6	11
DD020149		0.22	0.004	0.11	0.95	16.3	<0.2	<10	100	0.63	0.21	9.25	0.67	21.0	7.0	17
DD020150		0.20	0.001	0.08	0.40	21	<0.2	<10	60	0.64	0.30	14.05	0.34	15.75	4.3	14
DD027442		0.25	0.004	2.02	0.38	10.4	<0.2	<10	1070	0.24	0.12	2.92	1.00	10.45	2.1	19
DD027443		0.27	0.004	0.77	0.68	15.5	<0.2	<10	490	0.37	0.14	3.09	0.92	16.30	7.3	17
DD027444		0.33	0.004	0.40	0.87	9.3	<0.2	<10	530	0.43	0.15	2.48	0.87	24.0	10.8	18
DD027445		0.32	0.004	0.40	0.89	8.5	<0.2	<10	500	0.41	0.16	2.40	0.72	25.4	9.4	19
DD027446		0.27	0.004	0.33	0.79	7.2	<0.2	<10	540	0.33	0.14	3.95	0.49	22.1	8.2	17
DD027447		0.26	0.003	0.44	0.92	8.8	<0.2	<10	560	0.39	0.16	2.90	0.82	24.8	9.7	19
DD027448		0.33	0.004	0.40	0.90	7.9	<0.2	<10	650	0.40	0.14	3.03	0.68	26.1	8.9	19
DD027449		0.37	0.002	0.37	0.73	6.9	<0.2	<10	550	0.37	0.12	5.13	0.64	18.75	7.0	15
DD027450		0.38	0.003	0.40	0.76	7.7	<0.2	<10	530	0.34	0.13	4.49	0.71	19.15	7.9	16
DD027451		0.30	0.003	0.35	0.68	6.7	<0.2	<10	550	0.30	0.12	5.92	0.55	16.45	6.7	14
DD027452		0.26	0.005	2.31	0.77	24.1	<0.2	10	1480	0.76	0.19	1.37	15.95	25.1	4.1	69
DD027453		0.30	0.005	1.30	0.78	15.7	<0.2	<10	1580	0.63	0.18	0.94	5.90	30.6	8.5	35
DD027454		0.23	0.005	1.25	0.72	15.6	<0.2	<10	1010	0.60	0.19	1.02	6.84	29.9	8.7	29
DD027455		0.22	0.004	2.00	0.36	12.8	<0.2	<10	500	0.28	0.13	0.74	0.76	18.05	3.9	21
DD027456		0.29	0.004	1.97	0.49	12.1	<0.2	<10	540	0.35	0.15	0.49	1.38	20.9	4.8	27
DD027457		0.31	0.004	0.85	0.75	12.3	<0.2	<10	740	0.60	0.18	1.33	7.01	29.0	10.7	25
DD027458		0.29	0.004	0.74	0.98	10.9	<0.2	<10	960	0.55	0.19	1.15	2.55	26.5	9.1	24
DD027459		0.28	0.005	1.07	0.70	11.9	<0.2	<10	670	0.55	0.17	1.66	5.12	25.2	8.1	24
DD027460		0.28	0.003	0.53	5.56	6.0	<0.2	<10	110	11.55	0.22	0.45	3.36	15.00	356	38
DD027461		0.23	0.004	0.83	1.04	10.3	<0.2	<10	770	1.02	0.18	1.43	5.80	20.8	22.8	28
DD027462		0.26	0.003	0.64	0.91	8.4	<0.2	<10	330	0.57	0.19	1.57	2.99	17.60	10.2	27
DD020558		0.18	0.002	0.53	0.65	12.5	<0.2	<10	480	0.41	0.11	1.60	0.79	11.75	4.2	18
DD022178		0.18	0.003	0.17	1.31	10.7	<0.2	<10	160	0.55	0.23	1.42	1.00	23.3	8.4	23
DD022179		0.16	0.002	0.08	0.46	8	<0.2	<10	70	0.28	0.08	15.60	1.27	6.82	2.3	8
DD022180		0.22	0.002	0.16	0.90	16.2	<0.2	<10	100	0.53	0.15	8.85	3.43	13.80	6.7	16
DD022181		0.23	0.002	0.15	0.92	20.9	<0.2	<10	120	0.53	0.14	9.33	0.97	15.35	6.4	17
DD022182		0.28	0.003	0.17	0.78	21	<0.2	<10	150	0.56	0.11	12.70	2.23	11.00	8.2	15

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD027103		1.58	16.7	2.49	4.36	0.05	0.02	0.05	0.030	0.06	18.6	12.5	0.35	310	1.28	0.01
DD027104		1.15	25.4	2.12	2.81	0.05	0.09	0.14	0.031	0.07	14.6	8.6	0.26	176	1.47	0.01
DD027105		1.30	25.9	2.29	3.41	0.07	0.05	0.12	0.033	0.07	24.1	10.4	0.29	315	1.19	0.01
DD027106		1.17	21.3	2.35	3.51	0.05	0.06	0.08	0.030	0.06	18.9	11.2	0.33	253	0.98	0.01
DD027107		2.14	17.5	2.84	5.21	0.05	0.05	0.05	0.033	0.06	15.1	13.9	0.30	197	1.28	0.01
DD027108		0.84	18.8	1.71	1.51	<0.05	0.04	4.47	0.018	0.07	8.5	5.0	5.98	228	1.29	0.02
DD027109		0.57	14.6	1.81	1.23	<0.05	0.05	0.83	0.018	0.08	9.6	3.4	6.29	163	1.78	0.02
DD027110		0.77	17.8	1.45	1.75	0.05	0.04	0.97	0.015	0.06	8.9	6.6	6.18	212	1.28	0.02
DD027146		2.95	134.5	5.56	3.48	0.06	0.06	0.47	0.045	0.05	8.8	19.5	3.36	526	1.63	0.01
DD020147		0.29	7.0	0.52	0.77	<0.05	0.03	0.05	0.008	0.03	4.4	3.1	9.77	110	0.33	0.03
DD020148		0.55	11.2	1.06	1.50	<0.05	0.05	0.47	0.013	0.05	7.1	5.3	8.05	109	0.76	0.03
DD020149		0.81	18.2	2.02	2.49	<0.05	0.08	1.80	0.026	0.09	11.8	7.0	5.32	175	0.98	0.02
DD020150		1.03	19.2	2.55	1.05	<0.05	0.04	0.10	0.025	0.11	7.2	2.0	7.84	123	1.18	0.02
DD027442		0.84	20.3	1.25	0.96	0.05	0.07	0.13	0.024	0.06	9.0	2.3	0.95	72	1.36	0.02
DD027443		1.48	26.0	2.49	1.92	0.05	0.05	0.09	0.020	0.08	10.3	9.1	1.21	395	1.26	0.02
DD027444		1.13	29.0	2.21	2.73	0.06	0.06	0.08	0.021	0.08	13.8	12.1	1.07	559	1.23	0.02
DD027445		1.15	27.7	2.17	2.67	0.05	0.06	0.07	0.018	0.07	13.8	12.1	1.03	462	1.06	0.02
DD027446		1.11	19.0	1.88	2.30	0.06	0.06	0.09	0.016	0.06	13.2	10.3	1.18	379	0.85	0.02
DD027447		1.65	28.4	2.19	2.99	0.05	0.06	0.09	0.024	0.08	13.6	13.4	0.94	454	1.12	0.02
DD027448		1.70	26.5	2.01	2.87	0.05	0.07	0.08	0.020	0.07	14.7	13.4	0.90	335	0.92	0.03
DD027449		1.39	22.3	1.78	2.21	0.05	0.05	0.12	0.018	0.07	10.9	11.2	1.38	314	1.00	0.02
DD027450		1.32	24.3	1.87	2.24	0.05	0.06	0.08	0.020	0.07	10.9	11.3	1.27	370	1.06	0.02
DD027451		1.42	20.7	1.62	2.05	0.05	0.05	0.08	0.015	0.07	9.7	11.5	1.50	274	0.98	0.02
DD027452		0.69	91.3	1.69	3.17	0.06	0.07	0.23	0.031	0.14	20.2	7.1	0.28	139	21.7	0.02
DD027453		1.02	70.8	2.56	2.67	0.06	0.07	0.17	0.033	0.11	20.1	9.3	0.32	227	9.79	0.01
DD027454		1.29	62.0	2.42	2.49	0.06	0.08	0.14	0.033	0.12	19.7	9.3	0.28	168	9.34	0.01
DD027455		1.03	27.2	1.68	1.08	0.06	0.04	0.11	0.027	0.07	16.3	3.9	0.26	157	2.66	0.01
DD027456		1.37	26.6	1.83	1.41	0.06	0.06	0.11	0.028	0.08	18.5	5.2	0.11	191	2.40	0.01
DD027457		1.21	60.7	2.61	2.30	0.06	0.08	0.13	0.029	0.13	18.4	9.9	0.37	345	7.29	0.01
DD027458		1.04	37.6	2.47	2.84	0.05	0.08	0.10	0.027	0.11	15.6	13.1	0.37	270	3.84	0.02
DD027459		1.14	46.6	2.28	2.15	0.06	0.07	0.12	0.027	0.11	16.0	8.7	0.57	267	5.89	0.01
DD027460		3.35	116.0	2.30	3.11	0.14	0.18	0.17	0.033	0.08	10.1	99.1	0.33	2990	2.50	0.01
DD027461		1.45	52.0	2.30	2.30	0.06	0.09	0.16	0.033	0.11	14.0	14.4	0.42	363	5.56	0.01
DD027462		1.47	37.4	2.34	2.45	<0.05	0.06	0.13	0.028	0.09	11.5	17.1	0.64	267	3.02	0.01
DD020558		0.61	18.0	1.36	1.94	<0.05	0.05	0.35	0.018	0.07	7.3	6.7	0.45	123	1.04	0.02
DD022178		0.89	15.9	2.30	3.70	<0.05	0.03	0.10	0.024	0.05	12.1	10.2	0.44	581	0.91	0.02
DD022179		0.35	10.2	0.54	0.84	<0.05	0.04	0.08	0.010	0.03	3.7	3.1	9.36	169	0.57	0.04
DD022180		0.70	20.3	1.49	2.03	<0.05	0.05	0.18	0.019	0.05	8.0	6.9	4.59	240	1.11	0.03
DD022181		0.63	16.2	1.64	2.16	<0.05	0.05	0.19	0.017	0.06	8.5	8.2	5.58	239	1.04	0.03
DD022182		1.04	26.8	1.28	1.71	<0.05	0.05	0.27	0.013	0.06	6.4	6.8	7.27	218	1.49	0.03

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**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD027103		0.50	27.4	1230	14.8	13.9	<0.001	0.05	0.58	1.9	1.0	0.5	21.6	<0.01	0.04	0.6
DD027104		0.51	88.7	950	12.0	10.3	0.001	0.07	0.70	3.6	1.0	0.4	35.9	<0.01	0.04	1.4
DD027105		0.64	39.1	1200	13.4	10.2	0.002	0.08	0.74	3.2	1.8	0.5	37.0	<0.01	0.09	1.2
DD027106		0.65	29.9	1010	13.0	8.9	0.001	0.05	0.56	3.2	1.0	0.5	31.1	<0.01	0.04	1.3
DD027107		0.75	29.2	1150	16.9	13.3	0.001	0.04	0.51	3.0	1.1	0.6	26.8	<0.01	0.05	1.5
DD027108		0.23	18.4	470	18.4	4.9	0.001	0.05	0.71	2.0	0.7	0.3	92.8	<0.01	0.03	0.9
DD027109		0.21	19.3	340	14.4	4.7	0.001	0.04	0.49	2.7	0.4	0.4	91.4	<0.01	0.03	1.9
DD027110		0.56	21.3	560	7.3	4.3	0.001	0.03	0.57	2.6	0.6	0.3	108.5	<0.01	0.02	2.0
DD027146		0.11	332	750	22.3	5.8	0.003	0.09	1.62	11.0	2.6	0.2	38.4	<0.01	0.11	2.1
DD020147		0.15	9.1	680	4.5	3.2	0.001	0.07	0.34	0.7	0.2	0.2	121.5	<0.01	0.01	0.3
DD020148		0.24	14.0	610	7.3	4.7	0.001	0.06	0.58	1.4	0.6	0.3	86.9	<0.01	0.01	0.8
DD020149		0.36	21.9	580	14.0	7.1	<0.001	0.05	0.81	3.3	0.6	0.4	67.4	<0.01	0.03	1.7
DD020150		0.09	21.4	310	25.0	5.1	0.001	0.07	1.01	3.5	0.6	0.5	79.2	<0.01	0.03	2.1
DD027442		0.10	27.0	1400	9.1	7.8	0.004	0.15	0.96	1.6	3.2	0.3	79.1	<0.01	0.06	0.8
DD027443		0.44	42.6	1360	9.6	9.3	0.004	0.11	0.79	2.6	3.7	0.3	53.0	<0.01	0.05	1.7
DD027444		0.82	35.7	1040	10.4	7.0	0.003	0.04	0.88	3.3	1.7	0.4	52.4	<0.01	0.04	3.4
DD027445		0.76	32.1	1050	10.3	6.9	0.002	0.04	0.79	3.2	1.6	0.4	49.7	<0.01	0.04	3.4
DD027446		0.65	26.7	990	8.7	5.7	0.001	0.05	0.58	2.7	1.0	0.3	59.2	<0.01	0.03	3.4
DD027447		0.82	33.5	1070	9.8	8.8	0.003	0.06	0.84	3.5	1.9	0.4	66.6	<0.01	0.05	3.1
DD027448		0.90	30.1	1000	9.6	8.6	0.002	0.05	0.70	3.4	2.1	0.4	66.4	<0.01	0.05	3.6
DD027449		0.59	26.1	920	8.2	7.1	0.002	0.07	0.66	2.8	1.4	0.3	80.6	<0.01	0.04	2.6
DD027450		0.60	29.7	950	8.8	7.2	0.002	0.06	0.68	2.9	2.0	0.3	70.8	<0.01	0.04	2.5
DD027451		0.53	24.4	810	7.7	6.7	0.003	0.07	0.53	2.7	1.6	0.3	89.6	<0.01	0.04	2.5
DD027452		0.21	171.0	3020	12.7	12.7	0.008	0.16	8.10	2.1	8.1	0.8	118.0	<0.01	0.12	1.0
DD027453		0.20	98.0	2090	12.7	9.6	0.005	0.10	3.60	3.6	3.3	0.5	77.6	<0.01	0.08	1.6
DD027454		0.21	126.0	2060	13.4	10.3	0.012	0.09	3.55	3.2	3.7	0.5	80.9	<0.01	0.08	1.6
DD027455		0.36	42.7	1020	8.5	6.0	0.002	0.07	1.14	2.2	3.0	0.4	32.6	<0.01	0.08	1.2
DD027456		0.21	42.4	1360	10.0	7.5	0.002	0.07	1.19	2.4	2.9	0.4	33.8	<0.01	0.09	1.1
DD027457		0.19	108.5	1990	14.1	10.7	0.004	0.09	2.61	3.3	2.9	0.4	71.6	<0.01	0.07	1.9
DD027458		0.45	56.4	1250	14.5	9.8	0.005	0.09	1.53	3.5	2.3	0.4	64.9	<0.01	0.04	2.1
DD027459		0.22	73.3	1630	13.4	9.3	0.005	0.09	2.24	2.9	2.6	0.4	61.5	<0.01	0.07	1.4
DD027460		<0.05	704	540	12.1	11.9	0.005	0.51	0.50	2.9	13.6	0.3	35.7	0.01	0.03	2.4
DD027461		0.18	184.5	1490	12.9	11.2	0.007	0.12	2.04	3.1	4.1	0.4	70.7	<0.01	0.06	1.7
DD027462		0.24	205	1130	12.9	10.7	0.004	0.08	1.14	2.8	2.3	0.4	54.2	<0.01	0.05	1.7
DD020558		0.22	28.6	1410	7.8	7.2	0.005	0.05	0.87	2.3	2.5	0.3	66.4	<0.01	0.05	1.6
DD022178		0.70	22.7	920	12.3	7.3	0.001	0.10	0.64	1.6	0.7	0.5	20.3	<0.01	0.02	0.7
DD022179		0.16	16.8	540	4.5	3.4	0.001	0.08	0.40	0.5	0.4	0.2	84.5	<0.01	0.03	0.2
DD022180		0.35	65.2	1040	9.6	5.3	0.001	0.11	0.99	1.3	1.1	0.4	50.1	<0.01	0.03	0.4
DD022181		0.33	32.9	900	9.3	5.6	0.002	0.06	0.97	1.8	0.8	0.4	58.0	<0.01	0.04	0.8
DD022182		0.26	125.5	790	6.7	5.7	0.001	0.05	1.25	1.7	1.0	0.4	74.1	<0.01	0.03	0.6





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027103		0.019	0.18	1.18	44	0.37	17.90	150	0.5
DD027104		0.010	0.30	1.75	37	0.20	20.7	291	2.6
DD027105		0.015	0.20	1.68	40	0.17	33.5	176	1.6
DD027106		0.019	0.17	1.13	41	0.15	22.7	145	1.4
DD027107		0.014	0.30	1.34	59	0.22	12.55	150	1.2
DD027108		0.008	0.16	2.02	22	0.08	6.75	71	1.1
DD027109		0.007	0.29	0.77	16	0.05	7.13	83	1.5
DD027110		0.021	0.15	1.01	24	0.09	7.07	86	1.5
DD027146		<0.005	0.10	3.37	37	<0.05	15.05	179	2.1
DD020147		0.008	0.07	1.25	16	<0.05	4.28	85	1.0
DD020148		0.010	0.14	1.12	21	0.07	5.40	76	1.5
DD020149		0.011	0.13	1.07	29	0.11	8.19	109	2.2
DD020150		<0.005	0.29	1.03	20	<0.05	6.61	42	1.5
DD027442		<0.005	0.21	1.43	22	<0.05	15.65	158	2.3
DD027443		0.016	0.23	0.99	26	0.31	10.85	166	1.7
DD027444		0.034	0.15	0.85	33	0.26	10.35	121	2.3
DD027445		0.033	0.15	0.88	33	0.22	9.73	123	2.2
DD027446		0.032	0.14	0.81	30	0.21	8.91	104	1.9
DD027447		0.032	0.16	0.92	33	0.18	10.40	146	2.2
DD027448		0.037	0.14	0.81	33	0.25	9.63	117	2.5
DD027449		0.023	0.13	0.79	27	0.39	8.86	113	1.9
DD027450		0.024	0.15	0.80	28	0.19	9.25	118	1.8
DD027451		0.019	0.12	0.78	24	0.18	8.85	107	1.8
DD027452		0.009	1.18	7.18	664	0.34	27.8	1650	2.9
DD027453		0.006	0.63	3.17	218	0.16	20.7	1040	2.6
DD027454		0.006	0.60	2.87	138	0.12	17.95	1420	2.7
DD027455		0.014	0.20	1.13	28	0.12	18.95	152	1.2
DD027456		0.007	0.22	1.41	31	0.08	23.4	219	1.8
DD027457		0.005	0.41	2.36	99	0.09	15.60	1170	2.5
DD027458		0.013	0.24	1.64	61	0.11	12.50	451	2.3
DD027459		0.006	0.33	2.18	84	0.08	15.90	675	2.3
DD027460		<0.005	0.14	2.41	21	0.05	359	3400	4.6
DD027461		0.005	0.35	2.71	69	0.11	29.4	1170	3.0
DD027462		0.006	0.22	1.38	43	0.25	14.65	755	2.2
DD020558		0.006	0.33	1.68	38	0.08	14.80	131	1.5
DD022178		0.024	0.12	1.38	43	0.16	9.04	102	0.9
DD022179		0.010	0.10	1.26	20	0.05	3.81	118	0.9
DD022180		0.014	0.22	1.52	39	0.08	12.85	473	1.3
DD022181		0.017	0.16	1.07	35	0.23	9.28	165	1.2
DD022182		0.010	0.46	1.36	37	0.08	13.50	685	1.6

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 Account: RCM

Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022183		0.11	0.004	0.17	0.92	24	<0.2	<10	160	0.63	0.12	11.20	2.95	12.80	9.1	18
DD022184		0.25	0.004	0.26	0.97	21.9	<0.2	<10	230	0.63	0.13	8.86	3.28	13.85	8.4	19
DD022185		0.22	0.003	0.21	0.78	22	<0.2	<10	190	0.54	0.12	10.45	1.93	12.30	7.0	15
DD022186		0.24	0.003	0.37	0.71	12.6	<0.2	10	260	0.45	0.10	9.30	4.65	10.70	5.7	16
DD022187		0.13	0.003	0.57	0.77	13.8	<0.2	10	450	0.64	0.13	4.40	5.30	11.55	7.2	20
DD027251		0.23	0.003	0.46	0.99	9.2	<0.2	10	320	0.60	0.17	3.52	7.78	15.30	7.4	22
DD027252		0.15	0.002	0.07	0.42	4	<0.2	<10	160	0.22	0.06	23.3	3.75	5.18	3.1	6
DD027253		0.15	0.001	0.04	0.17	2	<0.2	<10	190	0.10	0.04	>25.0	1.24	1.85	1.2	2
DD027254		0.21	0.002	0.11	0.86	9	<0.2	<10	130	0.60	0.14	10.85	0.88	14.05	7.6	14

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 Account: RCM

Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD022183		1.14	29.2	1.52	2.07	<0.05	0.06	0.28	0.019	0.08	7.8	8.1	6.65	221	1.61	0.04
DD022184		1.08	31.5	1.73	2.21	<0.05	0.07	0.34	0.020	0.11	9.0	9.0	4.14	261	1.87	0.03
DD022185		0.84	22.6	1.45	1.84	<0.05	0.07	0.22	0.018	0.07	7.5	7.6	5.75	207	1.71	0.03
DD022186		0.65	22.4	1.25	1.67	<0.05	0.07	0.27	0.016	0.07	7.0	7.0	4.66	138	1.75	0.03
DD022187		0.71	40.9	1.50	2.00	0.05	0.09	0.45	0.023	0.12	7.5	9.7	1.41	243	3.17	0.03
DD027251		0.53	34.1	2.38	2.50	0.05	0.07	0.15	0.024	0.09	10.2	13.7	1.14	404	2.89	0.02
DD027252		0.38	11.4	0.82	1.06	<0.05	0.04	0.07	0.008	0.06	2.7	6.8	0.95	210	0.74	0.03
DD027253		0.20	6.2	0.29	0.39	<0.05	0.02	0.05	<0.005	0.03	1.0	2.8	0.41	101	0.34	0.03
DD027254		0.61	20.2	2.04	2.25	<0.05	0.06	0.17	0.015	0.09	7.0	14.6	2.69	497	1.56	0.03

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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD022183		0.33	136.0	960	8.3	6.6	0.001	0.07	1.39	2.0	0.9	0.4	67.6	<0.01	0.06	0.7
DD022184		0.35	126.0	1210	10.5	7.6	0.002	0.10	1.45	2.2	1.5	0.4	67.9	<0.01	0.04	0.7
DD022185		0.29	84.2	920	8.8	5.8	0.002	0.07	1.15	1.9	1.3	0.3	69.6	<0.01	0.04	0.7
DD022186		0.28	71.8	1110	7.5	6.4	0.009	0.13	1.34	1.8	2.7	0.3	81.7	<0.01	0.02	0.7
DD022187		0.31	85.3	1820	9.6	9.5	0.025	0.25	1.80	1.9	6.3	0.3	65.8	<0.01	0.03	0.6
DD027251		0.26	79.3	1150	16.2	9.8	0.010	0.12	1.13	2.6	5.7	0.4	76.0	<0.01	0.06	1.1
DD027252		0.12	25.3	440	6.9	4.6	0.003	0.33	0.31	1.3	1.8	0.2	221	<0.01	0.02	0.8
DD027253		0.05	8.0	220	2.6	1.7	0.001	0.37	0.21	0.5	2.6	<0.2	242	<0.01	0.01	0.3
DD027254		0.28	23.6	700	16.2	5.2	0.002	0.07	0.51	2.8	1.4	0.3	154.5	<0.01	0.03	2.0

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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022183		0.011	0.46	1.21	40	0.10	15.65	734	2.0
DD022184		0.010	0.45	1.51	41	0.09	16.60	647	2.1
DD022185		0.010	0.32	1.25	36	0.09	13.35	434	1.5
DD022186		0.008	0.28	1.52	36	0.08	12.25	352	2.1
DD022187		0.008	0.37	3.60	45	0.13	14.35	374	2.9
DD027251		0.006	0.61	2.26	47	0.06	14.90	418	2.0
DD027252		<0.005	0.16	2.84	11	<0.05	4.07	300	1.3
DD027253		<0.005	0.05	2.49	4	<0.05	1.72	97	0.6
DD027254		0.008	0.10	1.94	24	0.07	7.90	136	1.7



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Project: ATAC- Regional- Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12147403**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12147405**

Project: ATAC- Regional- Area G (Midway)  
 P.O. No.: Silt 9  
 This report is for 2 Silt samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional- Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12147405**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027261		0.25	0.008	2.77	0.51	15.4	<0.2	10	530	0.47	0.13	2.40	6.31	12.15	5.0	40
DD027262		0.34	0.006	4.38	0.62	22.9	<0.2	<10	980	0.52	0.12	3.84	12.05	14.95	3.6	82

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Project: ATAC- Regional- Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12147405**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
DD027261		0.49	45.2	1.57	1.60	0.09	0.06	0.19	0.028	0.09	8.6	2.8	0.33	186	3.93	0.02
DD027262		0.80	48.1	1.49	2.82	0.17	0.07	0.25	0.029	0.08	14.1	4.9	1.08	71	17.50	0.05

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Project: ATAC- Regional- Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12147405**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD027261		0.13	139.5	2780	8.4	7.6	0.011	0.09	1.55	3.3	5.6	0.3	131.0	<0.01	0.09	2.0
DD027262		0.20	92.4	4490	8.5	8.2	0.016	0.09	4.70	3.6	7.7	0.5	194.5	0.01	0.11	2.2

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Project: ATAC- Regional- Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12147405**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 TI ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
DD027261		<0.005	0.25	4.33	137	0.11	25.5	495	1.9
DD027262		0.006	0.95	13.90	193	0.21	41.6	462	2.5

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Project: ATAC- Regional- Area G (Midway)

**CERTIFICATE OF ANALYSIS WH12147405**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12147406**

Project: ATAC- Regional- Area GFE (NDR- 4)  
 P.O. No.: Silt 10  
 This report is for 1 Silt sample submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

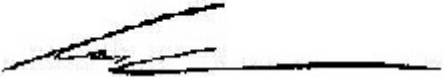
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional- Area GFE (NDR- 4)

**CERTIFICATE OF ANALYSIS WH12147406**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD027263		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.24	0.004	0.85	1.05	5.4	<0.2	10	620	0.57	0.16	1.98	0.93	18.45	6.8	27

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Project: ATAC- Regional- Area GFE (NDR- 4)

**CERTIFICATE OF ANALYSIS WH12147406**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
DD027263		0.87	38.0	2.03	2.75	0.06	0.11	0.23	0.027	0.07	13.5	11.0	0.30	263	0.69	0.01

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 Finalized Date: 15- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area GFE (NDR- 4)

**CERTIFICATE OF ANALYSIS WH12147406**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD027263		0.50	46.0	1660	11.8	15.1	0.002	0.17	0.64	3.2	3.0	0.4	70.1	0.01	0.09	0.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area GFE (NDR- 4)

**CERTIFICATE OF ANALYSIS WH12147406**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
DD027263		0.005	0.02	0.05	1	0.05	0.05	2	0.5
		0.011	0.20	1.92	30	0.12	31.5	155	1.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 15- JUL- 2012  
Account: RCM

Project: ATAC- Regional- Area GFE (NDR- 4)

**CERTIFICATE OF ANALYSIS WH12147406**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1  
 Finalized Date: 13- JUL- 2012  
 Account: RCM

**CERTIFICATE WH12147407**

Project: ATAC- Regional- Area B (Dale S)  
 P.O. No.: Silt 11  
 This report is for 1 Silt sample submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

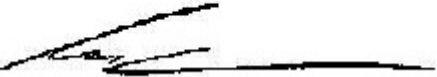
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 13- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area B (Dale S)

**CERTIFICATE OF ANALYSIS WH12147407**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD027239		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.37	0.002	0.52	1.19	119.0	<0.2	<10	300	0.89	0.19	1.53	2.83	26.9	8.6	21

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 Finalized Date: 13- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area B (Dale S)

**CERTIFICATE OF ANALYSIS WH12147407**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
DD027239		1.03	22.4	3.00	3.06	0.08	0.07	0.13	0.035	0.10	16.1	11.8	0.27	410	2.83	0.01

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 Finalized Date: 13- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area B (Dale S)

**CERTIFICATE OF ANALYSIS WH12147407**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD027239		0.55	43.6	1540	16.7	18.3	0.002	0.17	1.75	2.8	2.8	0.4	46.4	<0.01	0.04	1.0

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 Finalized Date: 13- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area B (Dale S)

**CERTIFICATE OF ANALYSIS WH12147407**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
DD027239		0.005	0.02	0.05	1	0.05	0.05	2	0.5
		0.008	0.42	1.48	45	0.11	16.15	322	1.6

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Total # Appendix Pages: 1  
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Account: RCM

Project: ATAC- Regional- Area B (Dale S)

**CERTIFICATE OF ANALYSIS WH12147407**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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Page: 1  
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**CERTIFICATE WH12149080**

Project: ATAC- Regional Area F (Crag N)  
 P.O. No.: Soil 9  
 This report is for 184 Soil samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 14- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027015		0.30	0.003	0.25	1.15	9.8	<0.2	<10	510	0.24	0.23	0.21	0.23	16.90	3.0	24
DD027016		0.35	0.005	5.06	1.12	53.6	<0.2	<10	1780	0.96	0.29	0.55	19.90	30.9	5.1	199
DD027017		0.42	0.006	3.02	0.91	14.1	<0.2	<10	980	0.64	0.18	1.09	2.54	17.05	5.9	45
DD027018		0.27	0.005	2.88	1.16	32.4	<0.2	<10	1460	0.79	0.22	0.29	6.51	21.6	6.9	62
DD027019		0.29	0.005	1.26	0.83	12.9	<0.2	<10	650	0.46	0.18	1.42	0.31	15.35	7.9	30
DD027020		0.33	0.005	2.03	0.78	18.6	<0.2	<10	420	0.33	0.24	0.09	0.33	15.75	3.7	31
DD027021		0.30	0.006	1.79	0.69	12.4	<0.2	10	770	0.40	0.19	1.02	0.54	13.10	5.5	22
DD027022		0.26	0.003	0.18	1.03	7.1	<0.2	<10	220	0.57	0.22	0.67	0.23	23.7	7.2	17
DD027023		0.30	0.004	0.09	1.00	13.3	<0.2	<10	300	0.54	0.20	0.60	0.88	33.7	8.6	24
DD027024		0.31	0.004	0.25	1.06	15.9	<0.2	<10	570	0.67	0.20	0.60	2.77	37.7	9.5	28
DD027025		0.35	0.002	0.21	0.83	7.4	<0.2	<10	90	0.17	0.20	0.04	0.24	18.15	2.4	18
DD027026		0.37	0.004	0.60	1.01	14.6	<0.2	<10	1360	0.52	0.17	0.28	1.13	23.8	6.9	41
DD027027		0.30	0.004	2.72	2.22	96.6	<0.2	<10	4720	2.81	0.10	2.92	33.2	65.0	33.3	139
DD027028		0.30	0.004	1.38	0.74	12.9	<0.2	<10	1710	0.39	0.14	0.73	0.87	22.7	6.3	24
DD027029		0.30	0.003	2.15	0.64	13.7	<0.2	<10	600	0.38	0.12	0.40	0.63	22.2	3.9	23
DD027030		0.21	0.002	0.21	1.11	8.7	<0.2	<10	230	0.35	0.22	0.20	0.62	19.15	5.6	22
DD027031		0.25	0.002	0.82	0.87	10.4	<0.2	<10	270	0.45	0.17	0.10	0.44	19.65	4.7	25
DD027032		0.25	0.002	0.42	1.09	10.3	<0.2	<10	270	0.56	0.17	0.14	0.75	33.1	6.5	26
DD027033		0.32	0.002	0.34	1.21	14.9	<0.2	<10	310	0.51	0.20	0.32	0.37	23.7	7.9	32
DD027034		0.32	0.002	0.44	0.89	11.1	<0.2	<10	220	0.41	0.17	0.45	0.63	25.3	5.4	22
DD027035		0.31	0.002	0.62	1.13	11.0	<0.2	<10	260	0.54	0.18	0.86	0.62	27.2	6.5	27
DD027036		0.32	0.002	0.36	1.20	14.6	<0.2	<10	180	0.50	0.19	0.43	0.85	28.7	10.4	27
DD027037		0.26	0.003	1.06	0.91	13.0	<0.2	<10	360	0.44	0.14	1.46	1.30	23.9	6.1	24
DD027038		0.25	0.004	0.56	0.90	13.5	<0.2	<10	380	0.40	0.14	1.51	0.44	16.65	5.2	23
DD027039		0.32	0.009	0.52	1.23	13.4	<0.2	<10	380	0.43	0.19	0.24	0.41	20.3	6.4	26
DD027040		0.24	0.004	0.54	1.19	15.5	<0.2	<10	530	0.45	0.18	0.37	1.19	23.3	8.0	25
DD027041		0.25	0.003	1.12	0.54	49.9	<0.2	<10	400	0.29	0.16	0.91	3.35	9.70	5.4	32
DD027042		0.26	0.004	2.20	0.79	29.4	<0.2	<10	900	0.61	0.12	1.96	10.55	13.70	6.9	32
DD027043		0.26	0.002	0.27	0.70	17.5	<0.2	<10	170	0.17	0.25	0.05	1.25	19.20	4.1	22
DD027044		0.32	0.003	0.72	1.02	14.5	<0.2	<10	1790	0.43	0.16	0.45	1.03	20.1	6.2	24
DD027045		0.30	0.002	0.75	0.96	18.3	<0.2	<10	1630	0.39	0.18	0.44	1.02	17.70	5.9	28
DD027046		0.27	0.005	1.50	0.62	45.9	<0.2	<10	630	0.27	0.32	0.02	0.81	28.7	2.8	20
DD027047		0.28	0.005	1.15	0.56	27.9	<0.2	<10	1380	0.35	0.19	0.34	1.44	16.70	3.8	33
DD027048		0.30	0.006	2.96	0.61	22.7	<0.2	<10	1390	0.31	0.22	0.49	0.96	17.45	3.5	23
DD027049		0.24	0.003	0.77	0.68	11.5	<0.2	<10	630	0.36	0.13	1.65	6.65	15.10	6.0	17
DD027050		0.22	0.003	0.81	0.69	14.4	<0.2	<10	790	0.38	0.14	1.01	16.35	17.50	6.0	20
ZZ67501		0.28	0.003	0.45	0.42	11.3	<0.2	<10	430	0.24	0.12	0.52	1.28	11.25	4.3	15
ZZ67502		0.25	0.003	1.44	0.55	14.7	<0.2	<10	780	0.32	0.11	1.68	0.75	17.60	4.4	19
ZZ67503		0.36	0.005	1.16	0.30	15.5	<0.2	<10	410	0.27	0.13	0.22	0.25	22.0	2.5	18
ZZ67504		0.31	0.002	0.52	0.26	13.7	<0.2	<10	540	0.24	0.12	0.21	0.32	14.35	3.4	14



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 Finalized Date: 14- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD027015		1.14	11.6	1.73	6.05	<0.05	<0.02	0.02	0.023	0.04	9.1	6.1	0.09	94	2.81	<0.01
DD027016		0.94	90.3	4.65	4.05	0.22	0.14	0.21	0.054	0.08	40.1	6.1	0.06	60	60.4	0.01
DD027017		0.88	36.6	2.13	2.69	0.08	0.07	0.47	0.032	0.07	12.9	6.1	0.13	323	5.86	0.01
DD027018		1.51	51.5	3.38	3.33	0.13	0.06	0.14	0.040	0.09	16.1	9.2	0.14	175	22.6	0.01
DD027019		0.65	19.4	2.37	2.68	0.06	0.06	0.10	0.027	0.05	9.9	6.3	0.08	339	2.63	<0.01
DD027020		0.79	28.0	2.78	3.31	0.07	0.03	0.08	0.031	0.12	9.5	4.1	0.09	99	5.86	0.01
DD027021		1.08	36.0	2.11	2.35	0.07	0.11	0.19	0.029	0.11	7.4	5.4	0.15	105	3.38	0.01
DD027022		1.41	28.3	2.45	3.71	0.05	0.08	0.03	0.026	0.10	12.6	9.3	0.19	250	4.23	0.01
DD027023		1.07	44.4	3.64	3.21	0.07	0.04	0.03	0.030	0.11	18.6	10.0	0.24	189	6.82	0.01
DD027024		0.83	39.8	2.96	3.34	0.08	0.06	0.07	0.030	0.11	19.6	13.6	0.30	304	10.50	<0.01
DD027025		1.30	11.3	1.52	5.32	<0.05	<0.02	0.04	0.016	0.04	10.1	3.4	0.11	64	2.57	<0.01
DD027026		1.69	38.2	3.33	2.24	0.07	0.07	0.09	0.036	0.07	13.8	15.7	0.17	263	6.20	0.01
DD027027		4.76	712	3.85	4.94	0.26	0.21	0.53	0.018	0.07	52.3	21.1	2.40	315	40.8	0.02
DD027028		0.62	30.1	2.11	2.35	0.07	0.05	0.09	0.022	0.08	14.8	7.0	0.29	260	3.90	0.01
DD027029		0.51	21.3	1.74	1.74	0.07	0.07	0.10	0.020	0.06	14.8	4.2	0.12	113	2.81	<0.01
DD027030		1.28	8.9	2.05	5.46	0.05	<0.02	0.03	0.020	0.06	10.0	9.5	0.23	445	2.08	<0.01
DD027031		0.91	17.3	1.71	3.45	0.05	<0.02	0.04	0.022	0.05	12.6	6.3	0.09	257	4.12	<0.01
DD027032		0.84	15.8	2.14	3.21	0.07	0.04	0.04	0.022	0.06	17.9	8.2	0.20	241	2.36	<0.01
DD027033		1.84	15.4	2.71	4.32	0.07	0.03	0.04	0.026	0.08	14.7	10.9	0.26	489	2.15	<0.01
DD027034		1.00	13.5	2.04	3.44	0.06	0.02	0.03	0.022	0.07	12.1	8.0	0.17	288	1.76	<0.01
DD027035		0.96	13.8	2.23	3.59	0.07	0.06	0.06	0.021	0.05	16.4	8.3	0.35	415	1.24	0.01
DD027036		1.19	18.3	2.68	4.17	0.07	0.02	0.04	0.023	0.06	14.0	11.0	0.38	371	2.00	0.01
DD027037		0.72	17.8	2.08	2.68	0.07	0.06	0.12	0.023	0.05	19.1	6.4	0.21	291	1.64	0.01
DD027038		1.00	15.6	1.81	2.79	0.06	0.05	0.08	0.021	0.04	11.4	6.6	0.16	243	1.79	0.01
DD027039		1.14	14.7	2.29	4.78	0.06	<0.02	0.03	0.024	0.04	11.0	11.7	0.25	265	2.35	<0.01
DD027040		0.75	17.0	2.41	4.16	0.06	0.03	0.04	0.024	0.07	11.9	11.5	0.32	365	3.26	0.01
DD027041		0.82	30.9	2.14	2.18	0.07	0.04	0.14	0.030	0.04	8.8	4.1	0.08	80	15.15	<0.01
DD027042		0.90	30.3	2.33	1.64	0.09	0.08	0.25	0.030	0.06	11.4	3.5	0.35	223	4.59	0.01
DD027043		1.27	16.3	2.17	4.83	0.06	<0.02	0.03	0.019	0.04	12.3	5.3	0.10	150	6.42	<0.01
DD027044		0.91	15.7	2.07	3.43	0.06	0.05	0.05	0.023	0.05	11.6	9.1	0.23	248	2.66	0.01
DD027045		0.92	20.9	2.03	3.96	0.06	0.02	0.04	0.024	0.07	9.8	7.7	0.20	295	4.26	0.01
DD027046		2.64	40.8	2.86	2.91	0.10	0.02	0.09	0.052	0.22	15.6	2.8	0.04	56	30.7	<0.01
DD027047		2.43	28.0	2.12	2.78	0.07	0.02	0.10	0.034	0.09	11.2	3.9	0.07	167	11.25	0.01
DD027048		2.18	22.1	1.92	2.59	0.12	0.02	0.06	0.041	0.11	10.5	4.1	0.09	227	12.70	0.01
DD027049		1.03	14.6	1.57	2.13	0.06	0.04	0.09	0.020	0.04	9.4	4.9	0.21	467	2.26	0.01
DD027050		1.16	17.5	1.76	2.15	0.06	0.05	0.08	0.021	0.06	10.5	4.8	0.20	485	2.85	0.01
ZZ67501		1.46	13.6	1.50	1.80	<0.05	0.03	0.04	0.018	0.05	7.0	3.1	0.06	177	3.87	<0.01
ZZ67502		0.94	19.7	1.63	1.59	0.07	0.06	0.13	0.022	0.05	12.8	5.0	0.11	172	2.30	0.01
ZZ67503		0.46	17.7	1.79	0.95	0.07	0.02	0.02	0.024	0.06	16.7	3.5	0.06	41	3.19	<0.01
ZZ67504		1.59	16.2	1.69	0.90	0.05	0.05	0.03	0.021	0.06	9.1	2.0	0.04	130	2.04	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD027015		0.47	22.9	640	11.5	5.6	<0.001	0.04	0.65	0.9	1.4	0.8	36.7	<0.01	0.06	0.2
DD027016		0.16	206	6000	15.3	9.3	0.011	0.15	10.40	2.8	25.3	0.8	158.0	0.02	0.24	0.7
DD027017		0.23	65.8	2330	10.7	8.2	0.003	0.09	1.70	2.4	5.9	0.4	117.0	0.01	0.14	0.6
DD027018		0.19	104.5	2410	13.8	11.3	0.005	0.19	4.21	1.9	11.1	0.6	93.9	0.01	0.14	0.4
DD027019		0.36	54.5	1260	11.1	7.0	0.001	0.09	0.94	2.4	3.4	0.4	88.4	0.01	0.08	0.7
DD027020		0.39	43.3	1430	13.2	11.3	0.001	0.25	1.28	1.9	6.1	0.6	78.0	<0.01	0.13	0.9
DD027021		0.34	51.6	1330	11.0	9.2	0.003	0.17	1.30	3.8	4.1	0.4	92.9	<0.01	0.10	1.9
DD027022		0.21	22.2	2000	32.7	14.7	0.001	0.07	0.98	1.8	0.9	0.4	24.8	<0.01	0.05	0.7
DD027023		0.21	35.4	1670	19.5	9.2	0.001	0.03	2.04	1.8	1.5	0.3	30.2	<0.01	0.06	0.9
DD027024		0.26	60.8	1680	16.3	10.8	0.001	0.03	2.86	2.5	1.7	0.4	29.6	<0.01	0.07	0.8
DD027025		0.14	10.8	860	8.8	7.9	<0.001	0.03	0.62	0.3	0.8	0.6	7.4	<0.01	0.04	<0.2
DD027026		0.15	43.5	1990	12.6	6.7	0.003	0.09	2.21	2.3	3.4	0.3	36.8	<0.01	0.07	1.3
DD027027		0.54	796	>10000	7.1	7.6	0.010	0.06	12.65	5.3	9.1	0.8	358	0.03	0.19	3.1
DD027028		0.35	46.4	1220	9.5	5.8	0.001	0.10	1.59	2.1	2.6	0.3	44.3	<0.01	0.08	0.8
DD027029		0.19	38.5	1040	8.3	5.0	0.001	0.08	1.15	2.1	2.8	0.3	31.6	0.01	0.07	0.9
DD027030		0.28	16.6	1190	12.3	14.7	<0.001	0.06	0.55	0.4	0.7	0.6	14.1	<0.01	0.04	<0.2
DD027031		0.09	26.7	1710	10.2	8.3	0.001	0.06	1.05	0.3	2.0	0.5	20.5	<0.01	0.06	<0.2
DD027032		0.32	30.6	1380	10.5	7.2	0.001	0.06	0.95	1.6	1.8	0.4	19.6	0.01	0.05	0.5
DD027033		0.34	33.8	1400	19.5	12.8	<0.001	0.06	1.29	1.2	1.3	0.4	21.1	0.01	0.08	0.3
DD027034		0.29	26.1	1550	11.0	9.9	0.001	0.05	0.85	0.9	1.4	0.4	19.5	<0.01	0.06	0.2
DD027035		0.57	28.6	1360	12.0	8.3	<0.001	0.05	0.82	2.5	1.2	0.4	23.0	0.01	0.05	1.0
DD027036		0.33	41.5	1140	13.8	7.2	<0.001	0.05	1.25	1.0	1.3	0.4	22.4	<0.01	0.07	0.3
DD027037		0.38	39.6	1600	13.2	6.5	<0.001	0.06	0.97	1.9	1.7	0.3	31.4	0.01	0.05	0.6
DD027038		0.45	35.3	1300	12.6	5.5	<0.001	0.09	1.17	1.9	1.7	0.3	29.2	0.01	0.05	0.5
DD027039		0.36	27.1	830	20.8	7.1	<0.001	0.04	0.92	0.8	1.3	0.5	15.7	<0.01	0.05	0.2
DD027040		0.49	34.3	1340	25.4	8.4	0.001	0.06	1.53	1.6	1.6	0.4	26.3	<0.01	0.05	0.6
DD027041		0.23	109.5	1220	136.5	5.0	0.001	0.07	7.44	1.9	8.0	0.6	25.5	<0.01	0.09	0.4
DD027042		0.20	92.1	1990	74.1	5.6	0.001	0.16	4.34	2.7	4.6	0.4	79.0	0.01	0.07	0.6
DD027043		0.52	44.5	610	18.9	7.5	<0.001	0.03	1.51	1.0	2.4	0.7	14.3	<0.01	0.06	0.2
DD027044		0.43	32.3	1250	15.4	5.8	<0.001	0.07	1.25	2.1	1.6	0.4	29.4	0.01	0.05	0.9
DD027045		0.35	34.5	1360	13.5	7.0	0.001	0.09	1.27	0.9	2.5	0.5	25.7	<0.01	0.05	0.2
DD027046		0.26	26.5	890	26.7	19.4	0.002	0.50	4.95	2.1	11.3	0.6	86.4	<0.01	0.12	2.5
DD027047		0.19	32.6	1620	17.7	10.6	0.003	0.18	3.04	0.8	5.1	0.6	65.8	<0.01	0.10	0.2
DD027048		0.13	23.6	1990	18.6	10.5	0.002	0.22	4.71	0.6	19.7	0.5	105.5	<0.01	0.13	<0.2
DD027049		0.34	27.2	1410	19.9	5.4	<0.001	0.13	1.63	1.4	2.0	0.3	34.0	0.01	0.05	0.4
DD027050		0.32	27.0	1620	23.5	7.1	0.001	0.11	1.80	1.9	2.2	0.3	36.2	0.01	0.05	0.6
ZZ67501		0.23	30.7	1190	19.1	6.5	0.001	0.09	2.00	1.4	2.0	0.3	30.4	<0.01	0.05	0.5
ZZ67502		0.22	38.6	990	10.6	5.2	<0.001	0.09	1.36	1.8	2.3	0.3	41.7	0.01	0.06	0.5
ZZ67503		0.09	45.7	1020	8.1	4.0	0.002	0.06	1.20	1.5	3.1	0.3	73.5	<0.01	0.11	1.9
ZZ67504		0.10	33.3	760	12.7	5.8	0.001	0.05	1.36	1.7	1.5	0.2	31.0	<0.01	0.06	1.2





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027015		0.013	0.28	0.69	76	0.21	3.59	84	<0.5
DD027016		0.005	2.14	18.60	341	0.59	77.5	762	2.2
DD027017		0.006	0.23	3.82	67	0.13	32.9	246	1.4
DD027018		0.005	1.14	6.54	151	0.26	35.2	469	1.0
DD027019		0.007	0.12	1.87	57	0.12	21.5	214	1.5
DD027020		0.008	0.28	1.54	67	0.19	9.66	130	0.5
DD027021		0.008	0.18	2.67	35	0.09	17.40	185	3.3
DD027022		<0.005	0.28	1.17	36	0.06	5.67	87	1.9
DD027023		<0.005	0.30	1.12	50	0.06	6.28	199	0.9
DD027024		0.006	0.38	2.56	95	0.12	17.40	434	1.1
DD027025		0.006	0.15	0.83	49	0.18	2.37	46	<0.5
DD027026		<0.005	0.28	2.59	63	0.09	16.75	181	1.6
DD027027		0.025	0.98	23.1	822	0.51	133.0	4450	4.2
DD027028		0.015	0.23	1.39	49	0.15	20.5	162	0.9
DD027029		0.007	0.26	1.76	36	0.28	24.8	143	1.5
DD027030		0.011	0.15	0.97	52	0.22	3.86	92	<0.5
DD027031		<0.005	0.21	1.97	55	0.14	9.55	121	<0.5
DD027032		0.013	0.15	2.16	44	0.19	24.2	192	0.7
DD027033		0.012	0.25	1.29	55	0.17	17.15	241	<0.5
DD027034		0.012	0.16	1.13	42	0.15	11.40	164	<0.5
DD027035		0.020	0.14	1.38	44	0.18	19.15	148	1.1
DD027036		0.017	0.21	1.00	53	0.32	12.80	178	<0.5
DD027037		0.012	0.21	1.89	37	0.14	28.8	228	1.0
DD027038		0.012	0.27	1.47	44	0.15	17.30	174	1.0
DD027039		0.012	0.26	1.13	58	0.18	6.38	162	<0.5
DD027040		0.016	0.33	1.12	54	0.19	9.41	252	0.7
DD027041		0.005	1.39	1.99	69	0.31	8.43	998	1.3
DD027042		0.005	0.82	2.59	49	0.12	36.9	983	1.6
DD027043		0.019	0.59	0.79	67	0.24	2.97	282	<0.5
DD027044		0.015	0.38	1.53	46	0.23	13.55	206	1.0
DD027045		0.012	0.48	1.55	55	0.23	9.39	192	<0.5
DD027046		0.007	3.47	1.99	132	0.21	7.46	125	0.5
DD027047		0.007	1.26	2.50	65	0.20	10.05	255	<0.5
DD027048		0.005	1.22	2.55	78	0.21	10.05	163	<0.5
DD027049		0.010	0.24	1.40	36	0.10	16.50	260	1.1
DD027050		0.011	0.30	1.67	43	0.14	18.75	549	1.2
ZZ67501		0.008	0.37	0.95	38	0.10	6.51	202	0.9
ZZ67502		0.006	0.19	1.04	33	0.09	21.0	157	1.5
ZZ67503		<0.005	0.19	0.81	21	0.08	12.40	135	<0.5
ZZ67504		<0.005	0.29	0.54	19	<0.05	6.27	148	1.5

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**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67505		0.32	0.002	0.73	0.83	16.4	<0.2	<10	370	0.58	0.18	2.24	1.76	22.5	6.5	26
ZZ67506		0.30	0.003	0.47	0.29	18.0	<0.2	<10	270	0.26	0.18	0.10	0.34	15.55	2.7	13
ZZ67507		0.31	0.002	0.51	0.40	21.9	<0.2	<10	420	0.41	0.23	1.15	0.97	38.5	7.2	11
ZZ67508		0.26	0.004	0.13	0.26	14.0	<0.2	<10	290	0.16	0.15	0.13	0.87	18.90	5.4	10
ZZ67509		0.28	0.002	0.25	0.41	13.6	<0.2	<10	310	0.21	0.20	0.12	3.15	17.05	5.9	16
ZZ67510		0.27	0.004	1.10	1.44	13.9	<0.2	<10	570	0.69	0.22	1.11	1.05	22.2	6.5	34
ZZ67511		0.27	0.004	0.84	1.42	28.3	<0.2	<10	1000	0.82	0.19	1.36	3.91	22.5	10.8	36
ZZ67512		0.31	0.004	0.94	1.13	25.0	<0.2	<10	640	0.68	0.19	1.86	1.82	18.85	7.7	28
ZZ67513		0.29	0.003	0.24	0.91	50	<0.2	<10	910	0.46	0.12	11.05	1.75	16.00	8.9	19
ZZ67514		0.27	0.003	0.26	1.37	25.5	<0.2	<10	960	0.67	0.19	3.62	1.19	24.6	9.6	25
ZZ67515		0.30	0.002	0.19	1.63	17.9	<0.2	<10	680	0.74	0.25	1.68	0.70	26.8	11.4	26
ZZ67516		0.25	0.005	0.19	1.73	151.0	<0.2	<10	790	0.94	0.23	1.41	1.99	25.6	10.7	34
ZZ67517		0.34	0.003	0.27	0.85	26.7	<0.2	<10	790	0.41	0.11	9.57	1.22	14.50	6.2	16
ZZ67518		0.35	0.003	0.35	1.27	42.2	<0.2	<10	790	0.68	0.17	5.22	2.41	21.5	8.9	25
ZZ67519		0.41	0.002	0.27	1.01	35	<0.2	<10	540	0.50	0.11	11.90	1.32	16.05	7.0	18
ZZ67520		0.25	0.004	0.72	0.69	15.6	<0.2	<10	530	0.54	0.15	0.96	1.34	13.00	4.6	20
ZZ67521		0.29	0.003	0.62	1.12	36.8	<0.2	<10	760	0.63	0.15	4.02	1.59	19.45	10.7	25
ZZ67522		0.24	0.006	0.62	0.70	32.0	<0.2	<10	430	0.50	0.11	4.61	1.11	14.50	5.8	18
ZZ67523		0.39	0.005	0.96	0.90	41.5	<0.2	<10	870	0.64	0.16	5.06	7.76	17.65	7.3	29
ZZ67524		0.30	0.004	0.11	1.73	36.9	<0.2	<10	540	0.57	0.27	0.60	1.04	25.4	7.4	26
ZZ67525		0.23	0.006	1.74	0.85	75.6	<0.2	<10	1550	0.63	0.22	1.29	1.77	14.45	5.1	25
DD022188		0.24	0.003	0.18	1.00	9.1	<0.2	<10	110	0.45	0.17	0.17	0.31	22.4	8.5	22
DD022189		0.28	0.002	0.29	0.67	3.6	<0.2	<10	80	0.27	0.19	0.04	0.18	3.05	4.8	18
DD022190		0.25	0.003	1.16	0.68	8.2	<0.2	<10	90	0.53	0.19	0.35	0.16	4.42	7.9	16
DD022191		0.20	0.002	0.35	0.59	10.9	<0.2	<10	80	0.27	0.24	0.03	0.22	8.71	5.1	14
DD022192		0.32	0.002	0.29	0.48	24.6	<0.2	<10	40	0.26	0.17	0.01	0.13	2.88	6.3	13
DD022193		0.21	0.002	0.26	0.46	11.7	<0.2	<10	90	0.41	0.21	0.02	0.12	3.87	7.0	13
DD022194		0.22	0.003	0.59	0.42	26.2	<0.2	<10	100	0.39	0.20	0.03	0.25	5.00	7.0	13
DD022195		0.24	0.002	0.68	0.64	9.7	<0.2	<10	90	0.35	0.20	0.04	0.18	6.00	4.5	18
DD022196		0.25	0.003	0.78	0.69	8.0	<0.2	<10	60	0.27	0.21	0.05	0.21	6.14	5.2	19
DD022197		0.26	0.002	0.19	0.16	7	<0.2	<10	140	0.17	0.04	18.75	1.35	6.56	1.5	8
DD022198		0.25	0.002	0.16	0.13	6	<0.2	<10	110	0.12	0.03	19.75	1.34	5.86	1.7	7
DD022199		0.20	0.002	0.25	0.34	12	<0.2	<10	150	0.31	0.08	14.95	1.90	12.55	3.1	15
DD022200		0.29	0.003	0.89	0.76	28.6	<0.2	<10	450	0.85	0.24	0.18	0.64	22.1	8.9	129
DD022201		0.25	0.014	0.91	0.35	15.9	<0.2	<10	230	0.44	0.17	0.06	0.22	6.16	6.6	13
DD022202		0.29	0.003	0.78	0.69	11.1	<0.2	<10	130	0.71	0.21	0.14	0.55	8.60	17.7	17
DD022203		0.27	0.005	0.30	1.19	19.8	<0.2	<10	100	0.64	0.26	0.05	0.20	14.00	6.4	32
DD022204		0.28	0.008	0.56	0.67	12.6	<0.2	<10	70	0.46	0.19	0.04	0.25	8.62	9.8	18
DD022205		0.25	0.003	0.65	0.50	16.9	<0.2	<10	150	0.24	0.19	0.04	0.18	13.05	4.3	31
DD022206		0.29	0.002	1.13	0.50	17.9	<0.2	<10	200	0.54	0.15	6.94	4.64	23.5	13.2	33

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67505		2.26	20.8	2.63	2.47	0.08	0.08	0.08	0.031	0.06	16.8	7.0	1.09	326	3.42	0.01
ZZ67506		3.79	16.8	2.10	1.12	0.06	0.02	0.04	0.022	0.10	8.6	2.3	0.03	38	4.43	<0.01
ZZ67507		3.55	18.2	2.39	1.31	0.09	0.09	0.11	0.027	0.14	22.8	2.3	0.21	383	2.87	0.01
ZZ67508		3.24	17.8	1.78	1.81	<0.05	<0.02	0.01	0.017	0.07	10.3	1.6	0.04	247	2.14	<0.01
ZZ67509		3.85	15.8	1.89	2.86	0.05	<0.02	0.03	0.018	0.07	9.1	1.9	0.05	410	2.51	<0.01
ZZ67510		0.94	43.9	2.41	4.51	0.07	0.10	0.33	0.033	0.06	11.8	14.4	0.31	231	1.74	0.01
ZZ67511		0.59	44.9	2.91	4.25	0.09	0.10	0.46	0.029	0.07	12.5	14.0	0.38	1080	4.39	0.01
ZZ67512		0.82	38.3	2.22	3.52	0.08	0.08	0.51	0.029	0.07	11.1	12.3	0.53	288	3.76	0.01
ZZ67513		0.64	19.2	2.07	2.51	0.06	0.04	2.02	0.019	0.06	8.8	11.0	4.31	422	3.73	0.02
ZZ67514		0.64	23.9	2.70	4.15	0.06	0.05	0.86	0.026	0.06	13.7	18.2	1.80	365	2.01	0.02
ZZ67515		0.94	19.9	3.10	4.90	0.06	0.06	0.34	0.028	0.05	12.4	20.2	0.96	540	1.66	0.01
ZZ67516		0.99	17.4	3.16	5.78	0.07	0.05	2.78	0.033	0.05	13.1	14.1	0.37	412	4.68	0.01
ZZ67517		0.51	12.8	1.70	2.33	0.05	0.04	0.87	0.018	0.05	7.8	11.4	3.95	266	2.33	0.02
ZZ67518		0.75	19.9	2.37	4.02	0.06	0.05	1.70	0.024	0.06	11.9	16.0	2.14	395	3.73	0.01
ZZ67519		0.59	19.9	1.95	2.69	0.06	0.06	0.70	0.019	0.07	8.8	14.4	3.54	388	3.39	0.02
ZZ67520		0.53	30.8	1.38	2.11	0.07	0.06	0.40	0.025	0.07	8.1	8.7	0.17	68	1.95	<0.01
ZZ67521		0.57	32.1	3.25	3.58	0.07	0.07	0.55	0.026	0.08	10.3	19.1	1.55	263	3.60	0.01
ZZ67522		0.57	19.3	1.78	2.24	0.06	0.05	0.70	0.020	0.06	7.9	10.3	1.97	309	4.64	0.01
ZZ67523		0.72	35.2	2.04	2.89	0.07	0.08	1.50	0.026	0.08	10.1	14.6	2.37	173	7.23	0.01
ZZ67524		1.15	13.0	3.23	6.88	0.06	0.03	0.58	0.033	0.04	12.5	14.8	0.19	192	4.37	<0.01
ZZ67525		0.69	38.2	2.16	2.95	0.06	0.05	1.64	0.032	0.06	7.9	7.1	0.18	213	11.50	0.01
DD022188		2.13	25.4	2.56	3.07	0.06	<0.02	0.09	0.022	0.05	11.5	17.8	0.33	236	1.42	<0.01
DD022189		3.02	23.4	2.52	2.33	<0.05	0.02	0.15	0.022	0.04	1.7	11.9	0.08	153	0.96	<0.01
DD022190		2.66	37.8	6.38	1.59	0.05	0.05	0.20	0.033	0.05	2.3	24.4	0.22	246	0.86	<0.01
DD022191		3.59	26.7	2.39	3.13	<0.05	<0.02	0.14	0.028	0.04	4.8	2.0	0.04	74	1.85	<0.01
DD022192		3.64	33.6	2.54	1.46	<0.05	<0.02	0.08	0.022	0.03	1.5	9.2	0.08	140	0.86	<0.01
DD022193		5.02	34.7	2.93	1.73	<0.05	0.02	0.12	0.026	0.06	2.2	2.5	0.04	74	1.38	<0.01
DD022194		5.34	35.6	2.75	1.72	<0.05	<0.02	0.16	0.029	0.05	2.8	2.4	0.03	227	2.01	<0.01
DD022195		4.58	31.5	2.47	2.25	<0.05	<0.02	0.13	0.030	0.05	3.5	5.1	0.06	46	2.61	0.01
DD022196		3.55	31.9	2.53	2.54	<0.05	0.02	0.17	0.032	0.05	3.3	4.1	0.07	60	2.12	0.01
DD022197		0.19	3.9	0.46	0.47	<0.05	0.03	0.06	0.012	0.01	10.6	1.3	10.80	400	0.30	0.02
DD022198		0.16	3.2	0.39	0.44	0.08	0.02	0.07	0.007	0.01	8.4	1.7	11.10	309	0.17	0.02
DD022199		0.96	12.2	0.97	1.06	0.07	0.05	0.09	0.030	0.03	17.0	3.3	8.46	369	0.50	0.02
DD022200		10.90	35.1	4.17	2.12	0.11	0.02	0.11	0.050	0.16	21.6	9.4	0.11	223	3.64	0.01
DD022201		7.03	43.2	3.06	0.99	0.05	0.02	0.08	0.033	0.08	3.3	5.3	0.05	87	4.16	0.01
DD022202		6.26	50.3	3.67	1.57	0.06	0.02	0.12	0.042	0.06	6.7	18.6	0.15	265	2.77	<0.01
DD022203		3.05	41.9	3.91	3.47	0.06	0.02	0.09	0.046	0.05	7.1	14.4	0.23	174	6.21	<0.01
DD022204		3.26	41.4	2.99	2.24	<0.05	<0.02	0.08	0.037	0.04	4.6	12.3	0.14	161	2.01	<0.01
DD022205		3.57	24.8	3.30	2.80	<0.05	<0.02	0.11	0.030	0.07	8.6	2.7	0.07	66	3.96	<0.01
DD022206		3.68	26.7	2.86	1.54	0.07	0.05	0.17	0.029	0.08	21.4	4.9	3.79	540	1.57	0.01



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**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67505		0.36	36.2	1020	22.1	7.1	0.001	0.08	2.13	2.9	1.9	0.3	24.9	0.01	0.08	1.4
ZZ67506		0.13	17.5	450	17.5	9.9	0.003	0.19	0.93	1.3	2.0	0.2	32.0	<0.01	0.04	1.8
ZZ67507		0.13	27.0	960	18.1	11.2	0.002	0.18	1.23	3.0	1.9	0.3	27.2	<0.01	0.12	2.1
ZZ67508		0.31	29.1	400	12.7	11.3	<0.001	0.03	1.25	1.3	0.9	0.3	5.3	<0.01	0.05	0.4
ZZ67509		0.19	20.5	930	18.3	15.1	<0.001	0.07	1.57	0.4	0.9	0.4	10.3	<0.01	0.06	<0.2
ZZ67510		0.63	38.3	1490	14.0	10.2	0.003	0.09	0.95	4.6	3.4	0.5	60.3	0.01	0.07	1.8
ZZ67511		0.50	58.6	1860	14.3	7.9	0.004	0.10	1.78	4.2	5.4	0.4	63.1	0.01	0.08	1.3
ZZ67512		0.47	62.8	1280	13.5	8.4	0.005	0.07	2.03	4.5	3.7	0.4	54.7	<0.01	0.08	2.0
ZZ67513		0.47	62.4	850	9.8	5.5	0.001	0.06	5.51	2.6	1.5	0.3	69.9	<0.01	0.04	0.8
ZZ67514		0.77	41.1	700	13.2	6.5	0.001	0.05	1.82	3.9	1.0	0.4	31.1	<0.01	0.05	1.5
ZZ67515		0.72	30.5	430	15.7	7.5	<0.001	0.03	1.16	4.6	0.8	0.5	20.4	<0.01	0.05	2.5
ZZ67516		0.96	62.9	540	16.1	9.7	0.001	0.04	8.05	5.2	1.4	0.6	17.9	0.01	0.05	1.6
ZZ67517		0.45	34.7	900	7.9	4.9	0.001	0.05	2.56	2.4	1.1	0.2	70.7	<0.01	0.03	0.9
ZZ67518		0.66	42.9	900	12.5	7.4	0.001	0.05	4.24	3.7	1.5	0.4	45.6	<0.01	0.05	1.2
ZZ67519		0.50	35.1	830	11.1	6.2	0.001	0.04	2.21	3.2	1.3	0.3	115.5	<0.01	0.03	1.4
ZZ67520		0.33	37.7	1270	10.8	6.6	0.011	0.08	2.00	3.3	7.9	0.3	60.2	<0.01	0.06	1.9
ZZ67521		0.42	48.3	1280	11.8	6.2	0.005	0.06	1.69	4.5	2.2	0.3	65.1	<0.01	0.07	2.1
ZZ67522		0.33	39.7	1140	10.3	6.0	0.007	0.05	2.37	3.0	2.3	0.3	70.2	<0.01	0.05	1.5
ZZ67523		0.40	78.7	1280	12.3	6.6	0.004	0.05	5.63	4.5	2.7	0.4	80.6	<0.01	0.06	2.0
ZZ67524		1.32	33.0	570	17.6	6.6	0.001	0.02	2.82	3.4	0.9	0.8	14.5	0.01	0.11	2.3
ZZ67525		0.41	43.5	1170	15.9	6.9	0.007	0.09	4.30	3.3	4.8	0.6	68.9	<0.01	0.17	1.3
DD022188		0.63	28.6	760	11.7	5.7	0.001	0.01	0.80	2.8	1.1	0.3	19.5	<0.01	0.05	1.8
DD022189		0.25	23.6	1300	12.3	7.9	0.001	0.10	0.57	0.6	0.8	0.2	7.7	<0.01	0.08	0.2
DD022190		0.19	32.2	460	13.7	5.0	0.002	0.02	0.68	6.1	0.9	0.2	34.4	<0.01	0.07	1.4
DD022191		0.37	21.3	940	13.4	7.1	0.001	0.07	0.92	0.5	1.3	0.5	9.2	<0.01	0.08	<0.2
DD022192		0.24	29.4	510	15.7	4.3	0.001	0.02	0.88	1.7	1.0	0.2	4.6	<0.01	0.06	0.3
DD022193		0.25	42.5	680	16.7	9.8	0.001	0.05	0.79	1.9	1.3	0.3	6.7	<0.01	0.10	0.4
DD022194		0.26	33.8	830	16.1	9.6	0.003	0.07	0.98	1.4	2.7	0.3	15.8	<0.01	0.07	0.2
DD022195		0.36	27.6	880	13.7	8.4	0.002	0.10	0.80	1.7	2.7	0.3	17.8	<0.01	0.07	0.4
DD022196		0.36	25.1	1170	14.5	8.2	0.002	0.12	0.74	1.0	2.0	0.3	14.2	<0.01	0.07	0.2
DD022197		0.14	7.9	760	7.8	1.2	0.001	0.02	0.42	0.8	1.0	<0.2	153.5	<0.01	0.04	0.3
DD022198		0.16	9.8	310	3.5	0.8	0.001	0.02	0.33	0.8	0.8	<0.2	213	<0.01	0.05	0.4
DD022199		0.24	29.7	950	8.5	3.1	0.003	0.04	1.41	1.7	0.9	0.2	157.5	0.02	0.13	0.8
DD022200		0.32	47.8	1640	18.7	18.6	0.002	0.18	1.78	3.7	3.8	0.3	105.0	<0.01	0.16	1.7
DD022201		0.17	39.8	520	15.8	8.7	0.005	0.11	1.02	3.7	4.6	0.2	59.1	<0.01	0.07	2.3
DD022202		0.21	80.1	740	16.9	7.1	0.003	0.04	0.79	3.8	2.9	0.2	25.6	<0.01	0.07	1.7
DD022203		0.47	24.2	1010	19.2	7.9	0.002	0.04	1.12	3.9	3.0	0.4	21.0	<0.01	0.09	2.6
DD022204		0.40	41.1	650	15.8	5.9	0.002	0.05	0.89	1.9	2.0	0.3	18.7	<0.01	0.07	0.7
DD022205		0.30	22.2	1240	16.3	9.6	0.002	0.15	1.14	0.6	3.1	0.4	38.6	<0.01	0.07	<0.2
DD022206		0.23	89.3	1640	18.9	6.7	0.001	0.03	3.08	4.0	1.9	0.3	47.4	<0.01	0.17	3.2

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67505		0.010	0.27	1.06	40	0.14	24.4	337	2.0
ZZ67506		<0.005	0.35	0.66	14	<0.05	4.51	132	0.5
ZZ67507		<0.005	0.17	1.16	20	<0.05	15.75	122	2.3
ZZ67508		0.011	0.25	0.30	22	0.10	2.42	141	<0.5
ZZ67509		0.008	0.22	0.51	40	0.14	2.62	233	<0.5
ZZ67510		0.008	0.32	6.32	71	0.13	21.1	208	3.1
ZZ67511		0.007	0.29	5.39	82	0.11	23.4	220	2.7
ZZ67512		0.006	0.59	2.70	74	0.10	20.5	226	2.4
ZZ67513		0.011	1.05	2.97	51	0.13	16.35	267	1.2
ZZ67514		0.018	0.39	1.52	53	0.21	15.70	171	1.4
ZZ67515		0.013	0.23	2.29	51	0.14	10.20	105	1.5
ZZ67516		0.018	1.75	6.10	95	0.17	17.25	207	1.4
ZZ67517		0.010	0.59	2.64	42	0.08	12.60	189	1.1
ZZ67518		0.016	0.80	2.40	60	0.14	17.75	165	1.3
ZZ67519		0.010	0.55	2.32	43	0.08	14.35	152	1.7
ZZ67520		0.005	0.36	4.46	49	0.08	18.75	165	2.1
ZZ67521		0.006	0.46	3.12	60	0.08	18.25	188	2.2
ZZ67522		0.005	0.51	2.28	46	0.06	14.30	166	1.9
ZZ67523		0.006	1.27	3.09	115	0.10	20.1	505	3.0
ZZ67524		0.022	0.63	1.79	97	0.25	8.16	122	1.1
ZZ67525		0.005	1.66	6.52	200	0.18	13.90	167	2.0
DD022188		0.034	0.09	0.84	36	0.14	7.89	107	0.5
DD022189		<0.005	0.07	0.42	21	<0.05	3.11	109	0.7
DD022190		<0.005	0.09	0.35	21	<0.05	12.55	133	2.0
DD022191		0.008	0.13	0.49	42	0.14	3.62	104	<0.5
DD022192		0.006	0.06	0.36	15	<0.05	3.17	124	<0.5
DD022193		0.005	0.11	0.49	27	<0.05	4.22	135	0.6
DD022194		0.006	0.13	0.57	24	0.05	5.06	154	<0.5
DD022195		0.009	0.13	0.74	28	0.05	5.71	115	0.5
DD022196		0.009	0.10	0.76	30	0.05	5.09	103	0.5
DD022197		<0.005	0.05	1.25	26	<0.05	20.4	83	1.0
DD022198		<0.005	0.03	0.39	21	<0.05	15.50	60	0.7
DD022199		0.005	0.19	0.89	31	0.09	28.4	194	1.5
DD022200		0.009	0.26	1.69	55	0.06	27.7	263	0.5
DD022201		<0.005	0.28	0.90	15	<0.05	10.45	159	1.7
DD022202		<0.005	0.14	0.86	19	<0.05	18.70	282	0.9
DD022203		0.012	0.18	1.25	36	0.11	8.45	100	0.8
DD022204		0.012	0.11	0.72	25	0.09	6.59	178	<0.5
DD022205		0.011	0.21	1.00	42	0.13	5.38	116	<0.5
DD022206		<0.005	0.51	1.77	45	0.05	38.2	422	2.1



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD022207		0.25	0.001	0.25	0.27	5	<0.2	<10	80	0.30	0.05	17.45	2.05	7.08	2.6	9
DD022208		0.38	0.001	0.29	0.25	9	<0.2	<10	290	0.19	0.05	17.15	2.11	8.27	3.5	12
DD022209		0.36	0.002	2.19	0.33	43.8	<0.2	<10	940	0.42	0.17	2.17	1.26	21.8	8.3	34
DD022210		0.22	0.003	1.23	0.61	5.3	<0.2	<10	970	0.21	0.13	0.96	0.15	11.45	1.8	19
DD022211		0.18	0.003	1.25	0.28	12.5	<0.2	<10	570	0.21	0.13	1.27	0.62	13.25	2.0	10
DD022212		0.17	0.003	0.74	0.55	19.7	<0.2	<10	210	0.29	0.19	0.05	0.30	17.45	4.5	15
DD022213		0.22	0.003	1.24	0.37	18.2	<0.2	<10	700	0.25	0.14	1.22	0.56	11.20	3.5	13
DD022214		0.14	0.002	0.56	0.20	17.2	<0.2	<10	110	0.13	0.13	0.03	0.17	15.60	5.3	19
DD022215		0.25	0.002	0.47	0.46	9.8	<0.2	<10	60	0.09	0.22	0.02	0.23	20.9	2.7	11
DD022216		0.17	0.003	0.53	0.45	18.3	<0.2	<10	1290	0.41	0.08	2.17	2.75	17.75	10.3	19
DD022217		0.20	0.007	1.76	0.49	29.7	<0.2	<10	260	0.36	0.14	0.15	1.77	22.0	5.2	21
DD022218		0.15	0.003	0.69	1.63	52.6	<0.2	<10	190	1.03	0.19	0.86	6.89	28.8	7.1	31
DD022219		0.21	0.002	0.77	0.56	91	<0.2	<10	140	0.87	0.05	15.25	11.80	8.52	12.7	16
DD022220		0.12	0.003	0.64	0.45	8.8	<0.2	<10	920	0.34	0.07	3.14	0.87	13.75	3.4	18
DD022221		0.25	0.005	8.06	1.62	28.8	<0.2	<10	190	1.61	0.51	0.17	0.56	65.6	8.4	543
DD022222		0.24	0.003	2.40	1.13	14.8	<0.2	<10	680	0.82	0.24	0.48	0.30	14.65	8.4	39
DD022223		0.19	0.003	0.29	0.78	5.4	<0.2	<10	510	0.31	0.16	2.82	1.14	10.00	4.3	14
DD022224		0.25	0.002	0.22	0.99	8.7	<0.2	<10	90	0.27	0.23	0.06	0.22	18.25	5.8	22
DD022225		0.21	0.011	1.14	0.67	17.0	<0.2	<10	250	0.28	0.23	0.09	0.11	3.82	12.2	14
DD022226		0.23	0.004	0.90	0.46	45.7	<0.2	<10	1120	0.34	0.22	0.22	0.36	32.9	7.9	14
DD022227		0.22	0.009	1.04	0.39	57.0	<0.2	<10	650	0.52	0.19	0.15	2.67	24.3	6.7	18
DD022228		0.26	0.002	0.48	0.74	12.0	<0.2	<10	130	0.13	0.22	0.02	0.10	25.6	2.6	14
DD022229		0.23	0.003	0.44	0.35	18.1	<0.2	<10	260	0.12	0.18	0.03	0.14	28.9	2.5	15
DD022230		0.19	0.008	3.74	0.23	19.5	<0.2	<10	580	0.18	0.21	0.32	1.09	20.5	3.2	16
DD022231		0.10	0.005	4.43	0.33	25.9	<0.2	<10	650	0.24	0.17	1.61	2.30	12.50	3.3	23
DD022232		0.18	0.010	4.42	0.34	27.8	<0.2	<10	790	0.27	0.17	0.65	1.79	20.4	3.5	24
DD022233		0.28	0.007	0.55	0.20	9.8	<0.2	<10	110	0.08	0.15	<0.01	0.01	34.0	0.2	6
DD022234		0.20	0.003	0.39	0.53	17.7	<0.2	<10	190	0.13	0.22	0.01	0.12	22.1	1.8	13
DD022235		0.26	0.002	0.81	1.23	15.5	<0.2	<10	360	0.96	0.19	5.03	2.85	22.7	8.4	31
DD022236		0.21	0.002	0.45	1.20	19.9	<0.2	<10	380	0.52	0.20	0.14	1.11	22.7	6.8	36
DD022237		0.12	0.003	0.40	1.08	10.4	<0.2	<10	530	0.54	0.19	2.45	3.05	18.05	6.5	23
DD022238		0.20	0.004	0.87	0.42	15.8	<0.2	<10	110	0.54	0.18	0.14	2.39	15.45	6.1	22
DD022239		0.23	0.004	2.10	0.50	11.1	<0.2	<10	530	0.30	0.11	0.91	1.88	18.45	3.9	17
DD022240		0.18	0.001	0.16	0.68	10.6	<0.2	<10	250	0.25	0.21	0.57	3.77	17.10	3.7	13
DD022241		0.18	0.003	1.15	0.75	16.5	<0.2	<10	790	0.44	0.12	0.91	5.33	15.40	4.7	22
DD022242		0.21	0.008	3.47	0.39	27.2	<0.2	10	490	0.30	0.28	0.39	4.08	25.9	1.9	19
DD022243		0.24	0.004	1.94	0.70	18.6	<0.2	<10	400	0.53	0.17	1.66	3.29	19.55	6.1	35
DD022244		0.20	0.004	2.74	0.35	14.1	<0.2	<10	640	0.27	0.13	1.82	2.28	15.20	4.6	18
DD022245		0.14	0.002	0.54	0.74	9.9	<0.2	<10	320	0.26	0.18	1.32	1.35	13.50	4.8	17
DD022246		0.17	0.002	0.38	0.93	13.1	<0.2	<10	270	0.40	0.18	1.34	1.15	15.15	4.6	21



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022207		0.35	6.6	0.63	0.71	0.06	0.04	0.06	0.013	0.02	13.7	2.1	10.55	345	0.32	0.02
DD022208		0.65	8.1	0.69	0.74	0.06	0.06	0.09	0.013	0.03	9.7	2.0	10.35	325	0.70	0.02
DD022209		3.84	29.7	2.98	1.10	0.08	0.07	0.19	0.030	0.13	17.3	2.3	0.96	645	3.25	0.01
DD022210		1.39	15.7	1.18	1.81	<0.05	0.07	0.11	0.023	0.07	7.3	2.9	0.14	55	1.23	0.01
DD022211		1.72	15.1	1.43	0.84	0.05	0.05	0.10	0.020	0.11	7.9	1.6	0.05	136	2.25	0.01
DD022212		1.14	22.0	2.39	2.19	<0.05	<0.02	0.05	0.036	0.05	11.3	6.7	0.06	66	2.92	<0.01
DD022213		2.43	21.7	1.88	1.07	<0.05	0.06	0.13	0.025	0.09	7.6	1.8	0.06	140	2.37	<0.01
DD022214		4.87	34.7	2.33	1.14	<0.05	<0.02	0.05	0.020	0.05	13.5	0.9	0.02	41	3.52	<0.01
DD022215		2.45	11.5	1.56	5.35	<0.05	<0.02	0.05	0.013	0.04	11.2	1.0	0.03	63	2.12	<0.01
DD022216		0.93	17.6	2.41	1.03	0.05	0.05	0.12	0.022	0.04	14.3	2.2	0.15	759	1.03	0.01
DD022217		2.50	31.3	2.58	1.79	0.06	<0.02	0.15	0.027	0.06	14.0	3.8	0.08	110	2.93	<0.01
DD022218		1.60	20.5	3.16	3.39	0.05	0.04	0.14	0.035	0.05	13.4	8.9	0.46	423	1.93	0.01
DD022219		0.58	20.7	3.06	3.45	0.06	0.06	1.03	0.039	0.02	14.0	2.6	9.27	1180	1.27	0.02
DD022220		1.85	13.9	2.03	1.21	0.06	0.04	0.14	0.019	0.04	17.3	3.9	0.29	340	1.62	0.01
DD022221		12.75	133.0	12.20	4.43	0.37	0.12	0.27	0.140	0.11	66.1	9.5	0.10	176	1.68	0.01
DD022222		4.82	38.0	4.33	2.12	0.05	0.06	0.12	0.034	0.10	9.7	7.9	0.13	319	1.36	0.01
DD022223		0.67	15.5	1.51	1.93	<0.05	0.03	0.18	0.018	0.03	11.0	2.2	0.06	568	0.92	0.01
DD022224		3.70	25.7	2.63	4.27	<0.05	<0.02	0.04	0.023	0.05	12.1	18.0	0.14	87	1.53	<0.01
DD022225		7.49	30.9	1.75	1.28	<0.05	0.02	0.04	0.016	0.06	1.7	17.9	0.19	67	0.55	<0.01
DD022226		6.18	29.0	2.54	1.25	0.06	0.02	0.08	0.026	0.08	16.7	4.5	0.06	74	2.40	0.01
DD022227		5.76	22.5	2.76	1.20	0.05	0.04	0.08	0.029	0.08	14.7	2.4	0.09	226	10.10	0.01
DD022228		2.50	14.4	1.54	4.21	<0.05	<0.02	0.02	0.013	0.04	14.7	2.0	0.04	48	2.70	<0.01
DD022229		2.52	23.3	1.85	2.70	0.05	<0.02	<0.01	0.014	0.04	21.3	2.2	0.03	48	10.85	<0.01
DD022230		3.28	41.1	2.24	0.73	0.07	0.03	0.20	0.026	0.07	14.5	1.6	0.02	50	7.22	<0.01
DD022231		3.98	41.5	1.95	1.10	0.06	0.08	0.22	0.024	0.08	9.8	1.8	0.04	50	8.23	0.01
DD022232		2.63	44.5	2.25	1.07	0.07	0.07	0.19	0.032	0.06	15.1	2.0	0.03	47	7.64	0.01
DD022233		0.61	5.9	0.43	1.89	0.06	<0.02	0.01	<0.005	0.04	21.0	0.9	0.01	<5	9.68	<0.01
DD022234		1.29	8.1	1.91	3.19	<0.05	<0.02	<0.01	0.014	0.06	12.0	2.1	0.04	70	5.86	<0.01
DD022235		3.12	27.7	2.50	2.58	0.07	0.04	0.12	0.032	0.08	18.1	8.1	3.17	339	2.11	0.01
DD022236		2.85	18.0	3.30	3.93	<0.05	0.02	0.03	0.032	0.12	11.6	11.3	0.24	193	3.15	0.01
DD022237		1.32	12.2	2.08	2.75	<0.05	0.04	0.05	0.025	0.05	12.1	6.4	0.92	1080	1.17	0.01
DD022238		3.23	28.4	2.63	1.50	<0.05	<0.02	0.04	0.026	0.05	9.3	2.1	0.04	280	2.49	<0.01
DD022239		2.06	16.9	1.50	1.12	<0.05	0.04	0.09	0.021	0.05	9.7	3.7	0.13	203	1.96	0.01
DD022240		1.33	9.7	1.83	3.41	<0.05	<0.02	0.01	0.014	0.03	8.4	5.6	0.08	126	1.65	0.01
DD022241		1.04	17.4	1.75	1.88	0.05	0.04	0.06	0.017	0.04	10.2	6.0	0.23	223	2.53	0.01
DD022242		3.54	36.4	1.87	1.80	0.10	0.16	0.15	0.036	0.23	16.8	4.6	0.14	47	29.5	0.01
DD022243		1.44	33.8	2.00	1.66	0.06	0.10	0.13	0.026	0.11	16.3	4.6	0.21	211	4.60	0.01
DD022244		2.49	28.6	1.69	0.95	0.06	0.06	0.20	0.022	0.08	12.2	2.7	0.06	118	2.96	0.01
DD022245		0.99	11.5	1.51	2.96	<0.05	0.02	0.05	0.014	0.03	9.8	3.6	0.09	721	1.55	0.01
DD022246		0.97	15.6	1.86	3.15	<0.05	0.02	0.03	0.022	0.05	9.4	6.8	0.18	317	1.30	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD022207		0.21	12.0	950	29.3	1.7	0.001	0.04	0.79	1.0	1.0	<0.2	119.5	<0.01	0.06	0.4
DD022208		0.18	16.4	1250	31.3	2.4	0.001	0.04	1.71	1.5	1.0	<0.2	103.0	<0.01	0.09	0.5
DD022209		0.17	52.7	1410	19.1	9.7	0.002	0.21	3.28	3.3	3.6	0.3	41.5	<0.01	0.11	0.9
DD022210		0.41	14.5	1910	9.0	4.5	0.001	0.18	0.61	1.1	2.6	0.3	38.4	<0.01	0.04	0.4
DD022211		0.17	17.5	1470	10.1	7.1	0.003	0.21	1.04	0.8	2.8	0.2	60.6	<0.01	0.13	0.7
DD022212		0.54	57.5	540	12.0	7.2	0.002	0.03	1.34	1.2	3.6	0.4	11.8	<0.01	0.18	0.8
DD022213		0.21	40.8	1240	10.7	6.9	0.001	0.22	1.32	2.2	3.4	0.2	39.9	<0.01	0.13	0.8
DD022214		0.18	94.6	520	6.1	5.1	0.002	0.03	1.63	0.7	2.2	0.3	3.3	<0.01	0.08	0.3
DD022215		0.73	11.1	390	8.2	5.9	<0.001	0.04	0.90	0.7	0.8	0.9	4.7	<0.01	0.06	0.3
DD022216		0.25	46.7	1410	53.0	4.5	0.001	0.15	2.76	1.5	1.8	0.2	25.0	<0.01	0.06	0.4
DD022217		0.34	46.4	1180	76.3	6.2	0.002	0.07	4.49	1.3	2.9	0.3	29.1	<0.01	0.07	0.4
DD022218		0.86	37.6	800	80.8	8.3	0.001	0.05	9.34	2.9	1.1	0.4	21.3	0.01	0.10	1.3
DD022219		0.23	67.3	520	409	2.1	0.001	0.01	11.65	2.5	1.4	1.4	90.7	<0.01	0.09	0.9
DD022220		0.26	19.3	2150	7.4	4.9	0.001	0.18	1.28	0.9	2.1	0.2	22.8	<0.01	0.04	0.5
DD022221		0.33	65.0	>10000	26.3	14.0	0.002	0.51	2.37	17.4	9.1	0.4	146.5	0.01	0.54	9.8
DD022222		0.29	49.8	2010	15.0	9.2	0.004	0.17	0.86	4.0	3.3	0.3	44.5	<0.01	0.10	2.2
DD022223		0.35	15.4	1540	8.9	3.4	0.001	0.23	0.37	1.2	0.9	0.2	32.6	<0.01	0.06	0.2
DD022224		0.56	25.7	510	10.9	6.8	0.002	0.04	0.72	1.1	0.6	0.4	5.0	<0.01	0.07	0.9
DD022225		0.08	28.8	370	15.9	6.6	0.004	0.01	0.64	1.7	1.0	<0.2	10.3	<0.01	0.07	2.3
DD022226		0.16	72.1	330	14.6	8.4	0.002	0.04	1.57	2.1	2.0	0.3	11.3	<0.01	0.09	2.1
DD022227		0.17	51.2	600	113.0	8.1	0.002	0.07	5.39	4.0	2.6	0.3	10.4	<0.01	0.09	2.2
DD022228		0.39	20.4	280	7.7	7.6	0.001	0.01	0.86	0.6	1.0	0.6	6.3	<0.01	0.05	0.2
DD022229		0.45	43.3	380	9.6	7.5	0.002	0.02	2.21	1.0	2.7	0.6	29.5	<0.01	0.09	1.4
DD022230		0.09	52.6	1360	11.7	6.2	0.002	0.14	2.88	3.5	4.9	0.4	178.0	<0.01	0.15	2.7
DD022231		0.10	68.0	1450	9.7	6.8	0.008	0.14	3.24	2.7	7.2	0.5	143.0	<0.01	0.12	1.4
DD022232		0.10	69.5	1330	9.8	6.1	0.004	0.09	3.19	3.9	5.4	0.5	111.5	<0.01	0.14	1.7
DD022233		0.17	2.7	170	7.8	4.7	0.010	0.02	3.45	0.4	1.8	0.4	11.7	<0.01	0.12	1.7
DD022234		0.37	10.8	600	18.1	8.7	0.002	0.08	1.43	0.9	1.7	0.5	14.5	<0.01	0.10	1.3
DD022235		0.37	42.9	1310	19.1	7.3	0.002	0.12	2.02	2.8	1.7	0.3	43.7	<0.01	0.06	1.1
DD022236		0.74	24.8	570	15.9	10.2	0.001	0.18	1.76	2.7	1.1	0.4	32.2	<0.01	0.11	3.4
DD022237		0.44	18.2	1440	19.3	5.7	0.002	0.13	1.29	1.9	0.8	0.3	20.6	<0.01	0.11	0.7
DD022238		0.12	47.5	1310	47.7	6.9	0.002	0.06	4.37	0.5	2.2	0.3	10.2	<0.01	0.09	<0.2
DD022239		0.22	29.6	880	18.2	5.3	0.001	0.10	1.89	1.9	2.2	0.2	28.1	<0.01	0.08	0.7
DD022240		0.67	17.2	460	18.4	6.8	0.002	0.04	1.01	1.1	0.7	0.4	14.9	<0.01	0.07	0.7
DD022241		0.34	33.9	1040	32.0	4.6	<0.001	0.08	3.58	2.1	2.1	0.3	37.7	<0.01	0.04	0.7
DD022242		0.08	32.3	1590	17.6	17.2	0.020	0.42	15.50	2.5	10.6	0.7	123.0	<0.01	0.14	4.8
DD022243		0.24	68.1	2440	21.5	6.7	0.002	0.17	3.01	2.9	4.1	0.4	43.0	<0.01	0.10	1.1
DD022244		0.14	58.7	1240	14.6	5.4	0.002	0.14	1.94	2.0	3.9	0.3	48.0	<0.01	0.07	0.8
DD022245		0.42	19.8	1200	17.4	4.5	0.002	0.12	1.10	1.1	1.1	0.4	32.8	<0.01	0.06	0.2
DD022246		0.42	25.8	1610	15.4	6.8	0.001	0.12	1.04	1.1	1.3	0.4	26.7	<0.01	0.09	0.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022207		0.006	0.06	1.00	23	<0.05	23.8	191	1.4
DD022208		<0.005	0.18	3.48	24	0.05	19.75	175	2.0
DD022209		<0.005	1.48	0.96	34	<0.05	29.8	298	2.4
DD022210		0.011	0.18	1.29	20	<0.05	8.77	54	1.9
DD022211		<0.005	0.22	0.82	20	<0.05	13.65	89	1.5
DD022212		0.010	0.19	0.67	34	0.08	5.77	163	<0.5
DD022213		<0.005	0.33	1.00	25	<0.05	12.85	169	2.2
DD022214		<0.005	0.12	0.53	33	<0.05	3.70	301	<0.5
DD022215		0.027	0.18	0.43	68	0.24	1.74	52	<0.5
DD022216		0.007	0.72	0.72	27	<0.05	25.7	486	2.0
DD022217		0.013	1.54	0.93	32	0.10	13.05	479	<0.5
DD022218		0.026	0.26	0.96	61	0.16	17.35	797	1.0
DD022219		<0.005	4.09	1.32	47	0.12	29.5	3680	1.8
DD022220		0.005	0.29	1.22	18	0.05	27.5	149	1.4
DD022221		0.007	1.16	6.81	147	0.08	109.0	232	3.8
DD022222		0.005	0.28	2.05	31	0.06	27.3	160	1.7
DD022223		0.011	0.07	0.55	21	<0.05	11.95	106	1.0
DD022224		0.013	0.15	0.46	48	0.13	3.93	120	<0.5
DD022225		<0.005	0.11	0.77	11	<0.05	9.24	115	1.1
DD022226		<0.005	0.94	0.59	21	<0.05	11.95	205	1.0
DD022227		<0.005	3.18	1.35	28	0.05	16.90	624	1.2
DD022228		0.014	0.65	0.55	57	0.18	2.27	82	<0.5
DD022229		0.014	0.24	0.49	62	0.28	1.56	155	<0.5
DD022230		<0.005	0.43	2.55	32	0.15	19.60	191	1.5
DD022231		<0.005	1.25	5.92	49	0.19	20.0	232	3.1
DD022232		<0.005	1.13	2.97	52	0.16	24.6	249	2.4
DD022233		0.005	0.45	0.64	53	0.13	2.08	9	<0.5
DD022234		0.008	0.66	0.47	61	0.17	1.90	60	<0.5
DD022235		0.012	0.43	1.82	42	0.10	35.2	424	1.2
DD022236		0.017	0.52	0.80	68	0.20	5.80	177	0.9
DD022237		0.014	0.31	0.89	42	0.09	19.95	301	0.9
DD022238		<0.005	0.51	1.42	42	0.07	11.30	1080	<0.5
DD022239		0.007	0.48	0.98	25	0.07	16.20	321	1.1
DD022240		0.022	0.21	0.66	43	0.21	4.15	192	<0.5
DD022241		0.013	0.55	1.64	48	0.20	17.65	630	1.0
DD022242		<0.005	2.12	4.48	124	0.34	9.76	228	9.1
DD022243		0.008	0.92	3.68	60	0.10	31.6	486	3.5
DD022244		<0.005	0.58	1.89	29	0.06	27.7	294	2.1
DD022245		0.014	0.28	1.16	44	0.14	13.65	180	<0.5
DD022246		0.012	0.23	1.17	40	0.14	12.45	187	0.5



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**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022247		0.26	0.002	1.01	1.03	22.0	<0.2	<10	330	0.52	0.17	0.84	1.35	23.6	7.3	28
DD022248		0.24	0.003	1.38	0.80	12.7	<0.2	<10	310	0.41	0.16	1.11	0.77	14.30	3.7	22
DD022249		0.18	0.003	0.58	1.05	12.2	<0.2	<10	210	0.46	0.19	0.62	1.30	19.90	4.8	26
DD022250		0.15	0.002	0.68	0.77	9.7	<0.2	<10	250	0.31	0.15	0.98	1.72	12.35	2.7	22
DD022251		0.20	0.002	0.24	1.20	13.7	<0.2	<10	230	0.43	0.22	0.31	0.50	16.25	4.8	27
DD022252		0.16	0.004	1.94	0.40	22.8	<0.2	<10	340	0.37	0.15	0.96	1.05	13.45	3.0	22
DD022253		0.17	0.002	1.16	0.80	15.5	<0.2	<10	330	0.39	0.20	0.51	1.92	15.75	5.4	25
DD022254		0.13	0.005	0.51	0.51	9.8	<0.2	<10	250	0.28	0.10	4.33	1.86	7.38	3.7	17
DD022255		0.20	0.001	0.15	0.15	9	<0.2	<10	120	0.14	0.04	16.75	1.65	3.66	2.5	8
DD022256		0.22	0.002	0.22	0.35	31	<0.2	<10	90	0.21	0.06	14.80	1.50	6.05	3.8	16
DD022257		0.21	0.002	0.27	0.41	16	<0.2	<10	180	0.33	0.09	11.95	1.82	9.03	4.5	16
DD022258		0.19	0.003	0.68	1.13	17.4	<0.2	<10	1000	0.56	0.20	0.30	1.19	24.4	7.7	39
DD022259		0.19	0.001	0.76	0.89	17.7	<0.2	<10	230	0.42	0.19	1.75	2.45	18.00	8.5	34
DD022260		0.19	0.002	0.38	0.33	12	<0.2	10	240	0.24	0.09	13.70	1.61	10.70	5.0	16
DD022261		0.26	0.005	2.87	0.75	22.9	<0.2	10	530	0.39	0.17	2.09	1.82	19.10	8.2	33
DD022262		0.23	0.002	0.94	0.60	14.3	<0.2	10	600	0.38	0.13	5.75	2.02	19.60	6.3	25
DD022263		0.19	0.002	1.17	0.79	11.9	<0.2	<10	320	0.38	0.14	1.32	0.92	18.45	5.5	24
DD022264		0.20	0.004	1.19	0.55	10.2	<0.2	<10	400	0.23	0.13	0.37	0.72	16.25	4.3	22
DD022265		0.26	0.003	0.64	0.66	10.3	<0.2	<10	330	0.28	0.15	0.71	0.30	14.10	4.2	19
DD022266		0.26	0.003	0.82	1.09	11.7	<0.2	<10	550	0.42	0.18	1.81	0.79	18.25	6.2	27
DD022267		0.22	0.002	0.85	0.36	7.4	<0.2	10	600	0.19	0.08	3.51	1.13	6.76	2.1	13
DD022268		0.18	0.003	0.99	0.51	8.5	<0.2	<10	690	0.31	0.11	2.94	0.42	8.68	3.0	17
DD022269		0.21	0.003	1.30	0.68	19.0	<0.2	<10	280	0.43	0.15	0.45	0.71	21.6	7.6	25
DD022270		0.22	0.001	0.49	0.46	9.5	<0.2	10	140	0.31	0.13	7.35	1.24	12.50	5.4	13
DD022271		0.17	0.002	0.80	0.63	16.2	<0.2	<10	330	0.38	0.18	0.85	1.35	14.05	4.1	19
DD022272		0.16	0.001	0.45	0.54	4.4	<0.2	<10	430	0.28	0.09	3.98	1.97	8.52	3.6	26
DD022273		0.19	0.003	0.17	0.65	10.9	<0.2	<10	120	0.16	0.23	0.08	0.24	11.95	4.7	18
DD022274		0.21	0.017	1.10	0.48	30.3	<0.2	10	1490	0.32	0.15	5.71	2.11	15.85	11.8	24
DD022275		0.21	0.002	0.35	0.66	14.5	<0.2	<10	1340	0.43	0.13	0.79	0.48	17.65	5.8	18
DD022276		0.15	0.003	1.29	0.58	14.6	<0.2	<10	660	0.34	0.14	1.40	1.13	14.80	6.2	18
DD022277		0.16	0.005	7.79	0.35	29.4	<0.2	10	770	0.29	0.18	0.75	1.89	23.8	4.8	25
DD022278		0.21	0.006	2.56	0.43	13.1	<0.2	<10	920	0.20	0.25	0.44	0.93	16.40	1.6	22
DD022279		0.09	0.004	0.48	0.35	3.3	<0.2	10	500	0.14	0.07	2.37	0.69	4.80	1.8	8
DD022280		0.18	0.005	5.17	0.43	33.8	<0.2	10	940	0.33	0.15	1.45	2.76	17.60	4.8	37
DD022281		0.13	0.005	5.77	0.38	19.1	<0.2	10	970	0.28	0.16	1.03	2.03	21.7	4.8	25
DD022282		0.14	0.009	0.74	0.71	5.7	<0.2	<10	820	0.25	0.13	2.13	0.59	9.37	4.3	17
DD022283		0.20	0.003	1.91	0.55	11.5	<0.2	<10	830	0.29	0.14	1.24	1.13	17.00	3.7	19
DD022284		0.16	0.004	1.59	0.63	14.2	<0.2	<10	970	0.26	0.13	1.09	1.10	15.60	4.0	21
DD022285		0.20	0.003	0.91	0.37	10.8	<0.2	<10	620	0.20	0.11	0.82	0.38	14.35	3.5	11
DD022286		0.22	0.001	1.30	0.92	28.9	<0.2	10	530	0.52	0.15	5.10	2.23	20.0	7.1	32

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022247		1.43	22.0	2.58	2.47	<0.05	0.05	0.04	0.021	0.05	12.8	8.2	0.26	345	3.54	0.01
DD022248		1.33	18.1	1.56	2.02	<0.05	0.07	0.04	0.019	0.05	12.3	5.1	0.13	130	1.41	0.01
DD022249		1.17	12.5	2.01	2.79	<0.05	0.03	0.02	0.020	0.06	14.0	6.5	0.20	394	1.37	0.01
DD022250		0.66	10.3	1.40	2.21	<0.05	0.05	0.03	0.018	0.05	9.4	3.9	0.14	155	1.38	0.01
DD022251		1.35	11.4	2.47	4.53	<0.05	<0.02	0.01	0.022	0.05	8.4	9.1	0.21	341	1.56	0.01
DD022252		0.78	28.5	1.63	1.14	0.05	0.07	0.09	0.023	0.08	12.3	2.6	0.06	108	3.77	0.01
DD022253		0.97	14.1	2.32	2.92	<0.05	<0.02	0.02	0.020	0.07	9.4	6.4	0.15	505	2.29	0.01
DD022254		0.70	12.6	1.20	1.43	<0.05	0.03	0.13	0.015	0.04	8.6	2.5	1.49	441	0.81	0.01
DD022255		0.45	4.7	0.45	0.40	<0.05	0.02	0.01	0.007	0.02	4.5	1.3	10.45	337	0.28	0.02
DD022256		0.88	10.6	1.05	0.66	<0.05	0.03	0.02	0.007	0.03	6.8	2.5	9.32	410	0.61	0.02
DD022257		0.86	13.2	1.21	1.11	<0.05	0.04	0.04	0.011	0.05	9.9	3.8	7.37	424	0.58	0.02
DD022258		2.90	27.9	2.52	3.82	0.08	0.03	0.06	0.035	0.12	14.9	6.6	0.16	556	2.24	0.02
DD022259		1.19	16.6	2.23	2.91	0.07	0.07	0.13	0.027	0.05	14.1	6.4	0.51	626	5.02	0.02
DD022260		0.54	9.2	1.10	1.02	0.06	0.06	0.07	0.014	0.03	15.7	3.6	7.40	517	0.54	0.03
DD022261		1.63	34.7	2.48	2.27	0.09	0.10	0.18	0.030	0.09	16.4	7.1	0.92	358	2.03	0.02
DD022262		2.61	20.2	1.75	2.01	0.07	0.08	0.07	0.021	0.08	14.7	6.0	3.48	404	5.61	0.03
DD022263		0.66	19.1	1.80	2.24	0.07	0.04	0.08	0.022	0.05	14.5	6.2	0.18	294	2.17	0.01
DD022264		1.03	20.6	1.75	1.73	0.06	0.05	0.05	0.022	0.07	10.3	4.7	0.12	158	2.41	0.01
DD022265		0.64	19.4	1.87	2.27	0.05	0.04	0.03	0.023	0.06	8.6	5.6	0.12	181	2.13	0.01
DD022266		0.74	21.0	2.21	3.06	0.07	0.04	0.08	0.024	0.06	13.7	9.4	0.29	248	2.03	0.02
DD022267		0.85	19.7	1.12	0.98	0.06	0.05	0.09	0.017	0.07	5.7	3.2	0.11	50	2.09	0.02
DD022268		0.56	19.2	1.44	1.33	0.05	0.05	0.10	0.019	0.06	7.3	3.7	0.06	146	2.43	0.02
DD022269		2.00	18.9	2.39	2.03	0.07	0.06	0.06	0.026	0.06	13.4	5.9	0.18	313	2.73	0.01
DD022270		1.88	13.6	1.45	1.20	0.06	0.06	0.09	0.027	0.05	16.0	2.8	4.52	419	0.83	0.02
DD022271		2.87	17.8	2.10	1.82	0.06	0.07	0.08	0.028	0.06	10.4	4.3	0.20	97	2.08	0.01
DD022272		0.75	12.1	1.42	1.60	0.06	0.03	0.13	0.018	0.02	15.7	2.1	0.06	499	0.96	0.02
DD022273		2.03	21.4	2.31	4.28	<0.05	<0.02	0.04	0.020	0.05	6.5	2.9	0.05	197	2.70	0.01
DD022274		2.09	16.4	2.61	1.43	0.08	0.07	0.11	0.026	0.05	16.7	3.5	3.10	362	1.86	0.04
DD022275		1.88	19.9	1.91	1.88	0.05	0.05	0.04	0.022	0.05	9.2	5.1	0.13	244	1.41	0.03
DD022276		2.32	18.3	1.76	1.56	0.07	0.09	0.09	0.027	0.06	13.2	3.0	0.31	421	1.86	0.02
DD022277		3.78	57.8	2.56	1.13	0.12	0.06	0.21	0.036	0.09	20.8	3.4	0.05	89	14.55	0.02
DD022278		1.12	18.0	1.63	1.65	0.08	0.04	0.12	0.038	0.13	12.9	4.2	0.06	36	7.98	0.03
DD022279		1.24	9.4	0.54	1.03	<0.05	0.05	0.11	0.009	0.04	3.7	1.1	0.05	69	1.59	0.03
DD022280		4.32	51.7	2.31	1.30	0.11	0.07	0.21	0.032	0.10	15.0	2.9	0.25	100	9.44	0.02
DD022281		2.44	52.0	2.07	1.12	0.10	0.09	0.20	0.031	0.08	17.8	3.1	0.06	82	7.28	0.02
DD022282		1.30	13.7	1.16	2.61	0.05	0.04	0.08	0.018	0.04	6.6	3.1	0.08	256	1.89	0.03
DD022283		1.24	26.3	1.63	1.57	0.06	0.05	0.10	0.024	0.05	13.2	4.4	0.09	108	2.84	0.02
DD022284		1.35	22.1	1.65	1.82	0.07	0.05	0.11	0.025	0.05	11.2	5.4	0.11	110	3.40	0.02
DD022285		1.30	24.4	1.40	1.11	0.05	0.06	0.07	0.021	0.05	10.0	4.0	0.10	73	3.37	0.01
DD022286		7.23	23.8	2.63	1.94	0.09	0.09	0.13	0.045	0.08	18.5	4.4	2.70	305	3.06	0.02

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD022247	0.05	0.43	64.2	1050	13.5	5.6	0.002	0.08	1.74	2.7	2.0	0.3	26.5	<0.01	0.06	1.0
DD022248		0.29	37.6	1450	10.2	5.8	0.001	0.09	0.77	1.7	1.9	0.4	46.1	<0.01	0.06	0.8
DD022249		0.35	22.8	1690	15.7	6.6	<0.001	0.09	1.02	1.4	1.3	0.3	18.4	<0.01	0.06	0.5
DD022250		0.35	17.3	2070	13.7	4.7	0.001	0.16	0.91	1.7	1.1	0.3	23.6	0.01	0.04	0.7
DD022251		0.29	20.5	900	14.8	8.0	0.001	0.06	0.88	0.4	0.7	0.5	13.4	<0.01	0.06	<0.2
DD022252		0.13	54.5	1350	13.5	4.9	0.001	0.14	1.21	2.0	4.4	0.3	69.0	<0.01	0.11	1.0
DD022253		0.27	23.5	1620	20.5	7.0	0.001	0.10	1.41	0.6	1.5	0.4	18.4	<0.01	0.08	0.2
DD022254		0.23	17.9	1660	16.7	3.2	<0.001	0.20	1.59	0.9	0.9	0.2	28.9	<0.01	0.10	0.3
DD022255		0.10	12.3	660	12.1	1.7	0.001	0.04	0.87	1.0	0.6	<0.2	70.5	<0.01	0.04	0.4
DD022256		0.15	28.0	910	13.9	2.3	0.001	0.04	2.17	1.4	1.0	<0.2	76.0	<0.01	0.07	0.7
DD022257		0.21	25.9	1180	20.4	3.4	0.002	0.06	1.40	1.7	0.9	<0.2	68.0	<0.01	0.09	0.9
DD022258		0.21	37.0	2220	34.5	13.4	0.001	0.23	1.65	1.0	2.9	0.4	58.3	0.01	0.08	0.2
DD022259		0.42	31.9	1750	22.1	6.4	0.001	0.15	2.46	2.6	1.8	0.3	19.6	0.01	0.11	0.6
DD022260		0.18	20.8	1060	8.0	4.0	<0.001	0.10	1.26	1.1	1.4	<0.2	58.1	0.01	0.07	0.5
DD022261		0.24	55.7	1580	27.2	7.3	0.001	0.15	2.23	3.3	3.7	0.3	39.1	0.01	0.12	1.2
DD022262		0.26	32.3	1090	21.4	8.9	0.001	0.12	2.08	2.7	2.0	0.3	50.5	0.01	0.07	1.1
DD022263		0.30	36.5	1620	9.4	5.5	<0.001	0.13	1.04	2.0	2.5	0.3	40.0	0.01	0.06	0.5
DD022264		0.18	36.1	1250	8.1	7.9	0.001	0.12	0.90	1.5	2.3	0.2	33.5	<0.01	0.07	0.6
DD022265		0.22	32.2	1220	9.2	6.8	0.001	0.12	0.97	1.7	1.9	0.3	31.5	<0.01	0.06	0.7
DD022266		0.45	33.1	1760	10.9	7.4	0.001	0.15	1.30	1.7	2.1	0.3	39.8	0.01	0.05	0.5
DD022267		0.15	26.1	1720	5.7	5.1	0.002	0.28	1.62	1.2	6.0	0.2	74.2	<0.01	0.06	0.5
DD022268		0.16	27.9	1830	7.6	5.1	0.001	0.29	1.84	1.4	3.2	0.2	72.4	0.01	0.07	0.4
DD022269		0.28	35.7	1280	22.2	7.0	0.001	0.06	1.79	2.7	1.9	0.3	21.2	<0.01	0.09	1.3
DD022270		0.18	22.3	990	20.4	6.8	0.001	0.09	1.20	2.0	1.5	0.2	28.5	0.01	0.08	0.5
DD022271		0.23	24.8	1050	18.4	9.0	0.001	0.12	1.22	2.4	1.5	0.3	15.6	<0.01	0.06	1.0
DD022272		0.19	15.0	1490	7.9	3.2	<0.001	0.23	0.33	0.9	2.0	0.2	34.8	<0.01	0.04	<0.2
DD022273		0.25	21.0	800	13.4	9.6	0.001	0.05	0.87	0.5	0.9	0.5	8.4	<0.01	0.06	<0.2
DD022274		0.18	33.1	1550	34.5	4.7	<0.001	0.14	3.36	2.5	1.8	0.2	80.1	0.01	0.17	0.7
DD022275		0.28	28.0	1120	14.3	7.6	0.001	0.13	1.09	1.9	1.3	0.2	28.5	<0.01	0.06	0.9
DD022276		0.17	31.5	1470	18.7	8.7	0.001	0.17	1.53	2.0	2.4	0.3	42.7	0.01	0.10	0.8
DD022277		<0.05	112.5	2410	11.1	9.7	0.006	0.13	2.97	4.9	7.7	0.6	139.5	0.01	0.11	3.2
DD022278		0.16	29.7	870	16.7	10.5	0.005	0.32	1.76	1.3	8.8	0.5	59.0	<0.01	0.12	1.1
DD022279		0.18	11.2	1250	4.6	4.2	0.001	0.25	0.84	1.1	3.1	0.2	69.8	<0.01	0.03	0.3
DD022280		0.07	89.9	2770	12.2	9.8	0.004	0.13	3.43	5.0	7.8	0.5	161.0	0.01	0.11	1.8
DD022281		0.07	87.5	1560	10.0	7.5	0.003	0.09	2.68	4.8	6.4	0.4	110.5	0.01	0.10	2.0
DD022282		0.40	21.1	2840	8.8	3.4	0.001	0.20	0.70	1.4	2.5	0.4	63.6	0.01	0.05	0.4
DD022283		0.21	45.7	1200	9.1	6.6	0.002	0.08	1.28	2.3	3.2	0.3	63.9	<0.01	0.07	0.9
DD022284		0.32	42.2	1480	8.7	6.7	0.001	0.10	1.64	2.1	3.5	0.4	84.2	<0.01	0.06	0.7
DD022285		0.14	43.8	880	7.7	6.0	0.002	0.08	1.31	1.9	2.7	0.2	48.3	<0.01	0.06	0.9
DD022286		0.18	46.6	1250	78.5	8.4	<0.001	0.18	3.98	2.9	2.8	0.3	42.5	0.01	0.11	0.9

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**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022247		0.016	0.24	1.64	46	0.23	22.7	351	1.4
DD022248		0.008	0.22	1.15	35	0.10	20.6	181	1.5
DD022249		0.013	0.27	1.44	43	0.23	24.2	212	0.6
DD022250		0.010	0.17	1.50	34	0.10	21.8	175	1.6
DD022251		0.011	0.23	0.78	57	0.18	5.05	163	<0.5
DD022252		<0.005	0.28	1.47	42	0.12	23.5	184	1.9
DD022253		0.008	0.25	1.10	48	0.15	12.05	275	<0.5
DD022254		0.006	0.19	0.96	29	0.05	19.35	214	1.0
DD022255		<0.005	0.14	0.65	18	<0.05	11.40	198	0.8
DD022256		<0.005	0.18	0.75	26	<0.05	18.40	293	1.1
DD022257		0.007	0.16	0.67	30	0.06	22.3	284	1.3
DD022258		0.008	0.43	1.70	59	0.16	22.7	235	<0.5
DD022259		0.013	0.26	2.08	61	0.12	26.4	261	1.6
DD022260		<0.005	0.11	0.92	27	0.05	29.7	147	1.5
DD022261		0.008	0.32	1.13	46	0.11	31.9	340	2.7
DD022262		0.009	0.33	1.02	40	0.10	23.3	242	2.2
DD022263		0.012	0.12	2.14	38	0.10	23.6	146	1.0
DD022264		0.007	0.18	1.06	28	0.06	13.05	132	1.2
DD022265		0.009	0.14	1.04	35	0.09	7.96	117	1.0
DD022266		0.014	0.13	2.59	47	0.14	22.1	132	1.0
DD022267		<0.005	0.15	5.08	25	0.07	15.30	156	1.9
DD022268		<0.005	0.14	4.46	30	0.09	16.35	107	1.7
DD022269		0.010	0.38	1.55	42	0.12	18.25	218	1.4
DD022270		0.005	0.16	1.78	23	0.07	29.5	198	1.5
DD022271		0.006	0.29	1.45	26	0.06	14.50	223	2.2
DD022272		0.005	0.07	0.80	21	0.07	17.45	76	0.6
DD022273		0.008	0.11	0.47	52	0.19	2.45	101	<0.5
DD022274		0.005	0.53	0.81	36	0.10	31.8	320	1.9
DD022275		0.008	0.21	0.76	32	0.17	10.60	126	1.6
DD022276		<0.005	0.33	1.41	35	0.07	24.7	210	2.6
DD022277		<0.005	0.50	4.00	44	0.27	34.5	318	2.7
DD022278		<0.005	0.27	2.00	48	0.12	9.19	123	1.2
DD022279		0.007	0.15	0.98	14	<0.05	6.59	42	2.0
DD022280		<0.005	0.91	4.16	64	0.16	41.8	323	2.8
DD022281		<0.005	0.34	3.07	45	0.16	31.2	299	3.7
DD022282		0.015	0.14	2.19	49	0.13	12.55	83	1.5
DD022283		0.005	0.16	2.47	39	0.09	17.20	163	1.8
DD022284		0.009	0.21	2.59	48	0.17	18.65	185	1.8
DD022285		0.005	0.12	1.68	24	0.05	10.80	143	2.4
DD022286		0.005	0.90	2.10	50	0.07	35.7	399	2.3



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022287		0.23	0.002	1.53	0.37	17.7	<0.2	<10	1610	0.24	0.12	1.27	0.43	15.45	5.1	17
DD022288		0.21	0.001	0.91	0.32	16.5	<0.2	<10	240	0.27	0.10	6.71	1.61	19.25	5.1	21
DD022289		0.19	0.001	0.84	0.56	21.4	<0.2	<10	1290	0.37	0.14	0.74	0.96	27.3	5.1	16
DD022290		0.23	0.009	0.18	0.36	15.3	<0.2	<10	110	0.17	0.18	0.03	0.50	13.30	4.4	13
DD022291		0.18	0.004	1.95	0.73	14.0	<0.2	<10	360	0.30	0.33	0.12	0.35	11.85	17.3	19
DD022292		0.20	0.003	1.38	0.34	29.6	<0.2	<10	510	0.29	0.18	0.23	0.85	9.56	9.4	17
DD022293		0.19	0.005	2.11	0.51	10.5	<0.2	<10	390	0.34	0.21	0.02	0.34	6.08	11.3	12
DD022294		0.23	0.003	2.07	0.69	14.1	<0.2	<10	1260	0.77	0.23	2.21	0.81	11.20	14.0	17
DD022295		0.22	0.003	0.98	0.44	19.5	<0.2	10	430	0.41	0.23	4.80	0.64	23.2	11.1	15
DD022296		0.20	0.017	3.92	0.48	16.4	<0.2	<10	250	0.18	0.18	0.07	0.19	5.21	2.6	15
DD022297		0.23	0.004	0.46	0.53	15.6	<0.2	<10	530	0.29	0.19	0.64	0.38	9.75	5.4	16
DD022298		0.17	0.001	0.14	0.49	20.6	<0.2	<10	320	0.20	0.17	0.45	1.68	19.25	4.9	14
DD022299		0.14	0.003	0.25	1.06	8.6	<0.2	<10	410	0.40	0.19	1.31	0.34	12.30	6.8	25
DD022300		0.11	0.020	0.36	0.99	4.5	<0.2	<10	510	0.40	0.14	2.07	0.65	13.00	5.5	20
DD022301		0.13	0.002	0.30	1.37	8.8	<0.2	<10	680	0.66	0.17	2.06	0.66	19.85	8.6	27
DD022302		0.19	0.005	0.09	0.96	7.5	<0.2	<10	720	0.53	0.17	0.29	0.68	20.8	6.4	23
DD022303		0.22	0.003	0.10	1.23	8.9	<0.2	<10	390	0.39	0.20	0.64	0.23	16.85	5.2	26
DD022304		0.20	0.011	0.45	1.12	5.0	<0.2	<10	700	0.52	0.16	2.10	0.20	18.40	7.5	17
DD022305		0.17	0.006	0.18	1.19	6.4	<0.2	<10	620	0.55	0.21	0.85	0.33	21.0	7.8	22
DD022306		0.22	0.002	0.16	1.10	8.3	<0.2	<10	630	0.44	0.18	0.66	0.42	17.60	6.4	23
DD022307		0.17	0.004	0.85	1.12	8.6	<0.2	<10	1000	0.65	0.15	1.83	0.27	15.45	6.8	28
DD022308		0.22	0.004	0.70	1.23	9.8	<0.2	<10	410	0.63	0.17	0.95	1.11	21.3	7.9	31
DD022309		0.23	0.004	0.90	0.83	13.7	<0.2	<10	490	0.31	0.16	0.17	0.25	10.85	2.7	23
DD022310		0.19	0.005	1.22	1.24	14.7	<0.2	<10	620	0.72	0.17	0.96	1.38	23.2	7.9	28

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD022287		1.94	19.9	1.82	0.95	0.06	0.06	0.08	0.024	0.06	11.1	3.1	0.22	103	1.52	0.03
DD022288		5.08	13.6	1.97	0.94	0.08	0.05	0.06	0.031	0.07	18.6	2.4	4.09	240	2.94	0.02
DD022289		7.11	16.4	2.61	1.89	0.07	0.03	0.07	0.030	0.07	14.7	4.6	0.17	242	2.14	0.02
DD022290		5.16	20.5	2.23	2.44	<0.05	<0.02	0.05	0.018	0.06	7.6	1.6	0.03	179	2.61	0.01
DD022291		5.02	36.5	3.93	1.77	0.08	0.04	0.14	0.031	0.09	5.4	19.2	0.26	198	0.98	0.01
DD022292		9.79	40.0	3.30	0.99	0.07	0.07	0.11	0.038	0.09	6.3	3.2	0.06	112	6.97	0.01
DD022293		16.00	78.0	3.71	0.98	0.08	0.04	0.17	0.034	0.06	2.4	12.4	0.08	115	3.99	0.01
DD022294		3.89	53.7	3.14	1.25	0.06	0.07	0.30	0.027	0.07	8.7	10.7	0.14	258	3.70	0.01
DD022295		7.39	37.3	3.35	1.08	0.06	0.04	0.15	0.024	0.15	14.1	4.1	2.27	264	2.41	0.01
DD022296		9.98	28.1	3.01	2.10	<0.05	<0.02	0.20	0.019	0.07	2.7	1.2	0.02	35	4.99	<0.01
DD022297		2.90	22.5	2.30	2.33	<0.05	0.02	0.07	0.016	0.07	5.3	3.7	0.06	128	2.78	<0.01
DD022298		3.54	15.0	1.94	2.58	<0.05	<0.02	0.04	0.013	0.06	9.6	3.6	0.11	280	2.10	0.01
DD022299		0.82	18.1	2.29	3.13	<0.05	0.06	0.10	0.023	0.07	6.2	10.1	0.25	264	1.95	0.01
DD022300		0.77	18.9	1.55	2.65	<0.05	0.05	0.15	0.011	0.05	8.5	8.1	0.22	279	0.94	0.01
DD022301		0.87	29.3	2.27	3.49	0.06	0.07	0.16	0.023	0.06	21.0	10.1	0.24	434	1.28	0.01
DD022302		1.18	26.5	2.36	3.02	0.06	0.07	0.10	0.023	0.06	16.9	7.1	0.16	309	1.58	0.01
DD022303		1.12	12.2	2.22	4.38	<0.05	0.04	0.04	0.019	0.06	7.4	11.7	0.24	190	1.53	0.01
DD022304		0.76	13.6	1.70	3.22	<0.05	0.04	0.13	0.017	0.04	13.2	5.1	0.17	437	0.93	0.01
DD022305		1.21	12.0	2.14	4.04	0.05	0.05	0.07	0.020	0.07	13.1	7.7	0.18	655	1.44	0.01
DD022306		1.09	13.7	2.31	3.32	<0.05	0.03	0.07	0.020	0.06	9.6	10.2	0.22	362	1.27	0.01
DD022307		0.74	30.4	1.95	2.74	0.05	0.05	0.18	0.014	0.05	10.2	9.5	0.20	513	1.25	0.01
DD022308		0.74	21.0	2.56	3.69	0.08	0.09	0.08	0.028	0.07	12.3	14.1	0.35	303	2.08	0.02
DD022309		0.68	14.7	1.75	2.75	<0.05	0.03	0.07	0.013	0.06	6.2	4.5	0.09	101	3.26	<0.01
DD022310		0.80	25.0	2.85	3.01	0.06	0.05	0.11	0.024	0.07	12.7	13.1	0.47	296	3.17	0.01



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD022287		0.10	31.7	1010	11.7	5.5	0.001	0.13	1.54	2.5	1.8	0.2	43.8	<0.01	0.09	0.9
DD022288		0.12	28.2	960	30.0	8.2	0.001	0.14	1.99	2.6	2.4	0.2	34.6	0.01	0.08	0.9
DD022289		0.34	27.5	670	20.5	9.6	<0.001	0.14	2.22	2.9	1.8	0.3	17.2	0.01	0.07	1.0
DD022290		0.23	21.7	830	13.4	11.0	0.001	0.06	1.18	0.6	1.1	0.4	9.3	<0.01	0.07	<0.2
DD022291		0.06	54.4	560	30.8	7.9	0.002	0.03	1.67	5.5	2.3	<0.2	13.3	<0.01	0.15	3.5
DD022292		0.06	50.8	940	29.8	13.9	0.003	0.17	3.07	2.7	3.9	0.3	27.4	<0.01	0.09	1.2
DD022293		<0.05	65.4	540	17.3	10.6	0.006	0.12	0.90	5.9	4.3	0.2	27.2	<0.01	0.07	1.9
DD022294		0.16	76.1	1130	19.6	8.2	0.004	0.17	0.92	2.5	4.1	0.3	35.7	<0.01	0.09	0.8
DD022295		0.13	52.0	820	23.5	14.4	0.004	0.15	1.13	4.4	2.8	0.3	39.2	<0.01	0.13	3.8
DD022296		0.38	19.5	1150	12.6	16.9	0.003	0.12	0.94	1.5	3.0	0.3	23.2	<0.01	0.04	0.5
DD022297		0.48	22.8	980	19.2	10.3	0.003	0.09	1.49	1.4	1.7	0.4	21.7	<0.01	0.05	0.5
DD022298		0.58	20.5	640	14.3	11.2	0.001	0.06	1.82	1.2	0.7	0.5	10.7	<0.01	0.04	0.5
DD022299		0.51	31.2	910	12.6	9.6	0.002	0.10	0.69	2.7	1.1	0.5	39.2	<0.01	0.04	0.8
DD022300		0.53	22.2	1120	8.8	8.6	0.001	0.12	0.50	2.1	1.7	0.3	54.5	<0.01	0.01	0.6
DD022301		0.54	39.7	1520	12.7	8.9	0.001	0.15	0.68	2.3	2.2	0.5	44.8	<0.01	0.05	0.6
DD022302		0.41	44.4	1250	11.6	7.8	0.001	0.07	1.26	3.5	1.5	0.4	19.1	<0.01	0.09	1.1
DD022303		0.63	19.8	910	12.7	9.2	0.001	0.07	0.57	2.6	0.7	0.6	26.8	<0.01	0.05	1.2
DD022304		0.63	12.9	1320	12.8	6.0	0.001	0.14	0.46	1.9	1.1	0.4	49.2	<0.01	0.04	0.6
DD022305		0.71	17.0	940	13.3	10.5	0.001	0.09	0.53	3.0	0.9	0.5	28.0	<0.01	0.02	1.1
DD022306		0.62	27.4	770	11.4	9.7	0.001	0.06	0.64	2.9	0.7	0.4	32.8	<0.01	0.03	1.0
DD022307		0.42	39.1	1370	11.4	7.5	0.003	0.12	0.79	2.2	3.2	0.4	75.4	<0.01	0.05	0.5
DD022308		0.44	38.8	1580	12.4	9.0	0.001	0.06	0.80	3.2	2.0	0.4	52.7	<0.01	0.06	1.4
DD022309		0.35	23.9	1210	8.9	10.0	0.001	0.06	0.55	1.2	2.0	0.4	28.6	<0.01	0.08	0.5
DD022310		0.44	42.3	1330	13.8	8.1	0.001	0.07	1.09	4.0	2.9	0.4	48.1	<0.01	0.07	1.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022287		<0.005	0.32	1.08	22	<0.05	17.85	171	1.8
DD022288		<0.005	0.44	0.99	32	0.05	35.3	285	1.2
DD022289		0.015	0.67	0.67	37	0.10	12.50	203	0.9
DD022290		0.006	0.21	0.48	34	0.08	2.31	125	<0.5
DD022291		<0.005	0.12	1.36	18	<0.05	13.65	205	2.0
DD022292		<0.005	0.67	2.13	28	0.06	13.65	343	2.4
DD022293		<0.005	0.41	2.36	14	<0.05	15.40	226	1.3
DD022294		<0.005	0.20	1.05	16	<0.05	19.80	235	1.9
DD022295		<0.005	0.24	1.76	25	<0.05	16.65	167	1.3
DD022296		0.006	0.16	0.83	23	0.06	3.19	88	<0.5
DD022297		0.012	0.14	0.71	29	0.13	4.62	139	0.6
DD022298		0.015	0.27	0.56	39	0.18	3.51	152	<0.5
DD022299		0.009	0.11	1.20	36	0.08	7.37	136	1.7
DD022300		0.010	0.11	2.20	29	0.09	12.65	89	1.7
DD022301		0.008	0.15	1.91	44	0.12	35.9	119	2.1
DD022302		0.007	0.17	1.11	43	0.12	38.8	135	2.3
DD022303		0.011	0.14	0.79	50	0.21	4.63	78	1.1
DD022304		0.010	0.10	2.05	32	0.13	16.00	48	1.3
DD022305		0.014	0.14	1.65	44	0.17	14.45	81	1.3
DD022306		0.012	0.14	1.14	44	0.13	12.55	100	1.0
DD022307		0.006	0.13	4.65	45	0.11	19.90	93	1.5
DD022308		0.016	0.12	2.58	41	0.17	17.00	236	2.3
DD022309		<0.005	0.14	1.25	51	0.12	7.02	88	0.7
DD022310		0.009	0.17	3.02	51	0.11	20.9	157	1.6



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149080**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12149081**

Project: ATAC- Regional Area F (Crag N)  
 P.O. No.: Soil 9  
 This report is for 182 Soil samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD025729		0.21	0.003	0.26	1.87	13.8	<0.2	<10	190	0.84	0.26	1.42	1.09	32.5	10.8	33
DD025730		0.18	0.004	0.22	1.68	16.1	<0.2	<10	190	0.70	0.24	1.53	0.88	28.3	8.9	31
DD025731		0.23	0.004	0.17	1.09	571	<0.2	<10	140	1.64	0.18	14.45	2.21	20.4	13.9	25
DD025732		0.20	0.003	0.21	1.35	74.2	<0.2	<10	150	0.71	0.23	3.15	2.53	29.3	8.5	29
DD025733		0.34	0.004	0.26	1.50	29.6	<0.2	<10	180	0.77	0.21	2.52	1.94	31.3	9.4	29
DD025734		0.33	0.005	0.39	1.82	29.6	<0.2	<10	220	0.96	0.25	1.17	0.96	33.5	12.8	34
DD025735		0.21	0.002	0.10	2.43	17.6	<0.2	<10	250	0.64	0.31	0.37	0.28	28.3	9.5	37
DD025736		0.26	0.002	0.26	1.26	30.9	<0.2	<10	160	0.67	0.19	6.49	1.67	24.3	6.9	22
DD025737		0.24	0.003	0.32	1.65	149.5	<0.2	<10	230	1.03	0.27	1.24	1.64	27.5	9.6	32
DD025738		0.31	0.001	0.07	0.11	10	<0.2	<10	20	0.08	0.02	17.95	0.22	1.78	0.7	3
DD025739		0.37	0.002	0.09	0.46	74	<0.2	<10	50	0.37	0.08	15.20	1.29	13.00	3.4	12
DD025740		0.24	0.002	0.12	0.98	17.0	<0.2	<10	80	0.61	0.17	9.38	0.85	19.30	5.5	19
DD025741		0.23	0.002	0.18	1.08	17.5	<0.2	20	130	0.46	0.18	6.67	1.47	21.6	7.2	19
DD025742		0.27	0.002	0.09	0.50	20	<0.2	<10	50	0.30	0.09	15.15	0.72	8.75	3.0	9
DD025743		0.26	0.003	0.21	1.57	23.5	<0.2	<10	240	0.76	0.24	1.30	0.70	31.8	9.0	29
DD025744		0.25	0.003	0.22	1.08	23.7	<0.2	<10	250	0.61	0.19	5.97	1.30	25.9	7.7	21
DD025745		0.25	0.004	0.29	1.30	21.7	<0.2	<10	170	0.65	0.19	3.60	2.30	30.1	8.7	24
DD025746		0.27	0.002	0.14	1.10	70.8	<0.2	<10	170	0.62	0.22	7.80	2.12	25.3	7.4	20
DD025747		0.21	0.002	0.31	1.42	26.2	<0.2	<10	190	0.77	0.25	2.87	4.71	28.0	10.6	29
DD025748		0.24	0.004	0.27	1.29	23.5	<0.2	<10	190	0.75	0.19	1.71	4.84	27.8	10.7	25
DD025749		0.32	0.005	0.58	1.80	28.6	<0.2	<10	410	1.16	0.24	0.75	3.76	33.7	13.9	31
DD025750		0.23	0.003	0.27	1.29	17.8	<0.2	<10	190	0.73	0.22	2.96	1.81	26.3	9.3	23
DD025801		0.19	0.003	0.28	1.39	61.6	<0.2	<10	230	0.79	0.23	2.45	1.89	29.1	10.6	28
DD025802		0.52	0.001	0.10	0.74	290	<0.2	<10	170	1.06	0.24	5.54	1.83	32.4	26.9	32
DD025803		0.28	0.004	0.40	2.25	101	<0.2	<10	420	5.83	0.20	11.30	22.6	27.4	99.3	24
DD025804		0.31	0.005	0.25	4.87	130.5	<0.2	<10	560	4.93	0.28	1.77	10.65	14.50	41.3	27
DD025805		0.27	0.003	1.32	1.42	22.4	<0.2	<10	910	0.51	0.29	0.39	1.43	22.0	6.1	27
DD025806		0.35	0.009	14.15	0.86	60.1	<0.2	20	570	0.94	0.25	3.17	38.6	30.8	5.7	344
DD025807		0.26	0.003	2.16	0.54	19.5	<0.2	10	990	0.43	0.19	0.57	0.44	11.40	2.2	21
DD025808		0.34	0.003	2.56	0.42	24.8	<0.2	<10	460	0.15	0.34	0.02	0.20	9.13	2.2	22
DD025809		0.21	0.002	0.68	1.10	20.5	<0.2	<10	650	0.53	0.27	0.48	0.14	12.10	4.1	33
DD025810		0.28	0.003	1.14	1.42	13.4	<0.2	<10	610	0.75	0.28	0.49	0.54	23.4	8.4	32
DD025811		0.24	0.003	0.96	1.23	17.4	<0.2	<10	350	0.68	0.22	0.28	0.75	20.8	7.4	28
DD025812		0.30	0.002	0.32	1.30	9.7	<0.2	<10	480	0.65	0.21	0.60	0.41	17.60	7.2	26
DD025813		0.31	0.006	0.30	1.36	11.2	<0.2	<10	290	0.85	0.20	0.29	0.78	28.7	10.9	24
DD025814		0.27	0.001	0.16	0.75	6.6	<0.2	<10	620	0.32	0.23	0.41	0.30	15.40	6.9	15
DD025815		0.30	0.003	0.27	0.94	8.2	<0.2	<10	560	0.43	0.25	0.92	0.55	22.5	6.1	19
DD025816		0.30	0.001	0.15	0.91	8.9	<0.2	<10	180	0.29	0.34	0.06	0.47	21.7	4.9	20
DD025817		0.26	0.002	0.17	0.93	6.8	<0.2	<10	410	0.27	0.21	0.78	0.45	19.20	4.8	19
DD025818		0.25	0.001	0.18	1.57	9.3	<0.2	<10	270	0.60	0.21	0.32	0.64	28.4	8.7	25





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025729		1.19	23.3	3.07	4.83	0.06	0.03	0.09	0.033	0.07	20.0	13.7	0.46	673	1.15	0.03
DD025730		1.27	23.4	2.77	4.28	0.05	0.03	0.09	0.027	0.06	18.3	11.8	0.44	500	0.91	0.03
DD025731		2.01	37.1	4.67	2.96	<0.05	0.05	0.37	0.025	0.09	11.4	5.5	0.21	373	1.46	0.03
DD025732		1.72	27.0	2.43	3.26	<0.05	0.03	0.15	0.030	0.08	16.2	10.7	0.36	430	1.17	0.03
DD025733		0.99	24.6	2.83	3.76	0.05	0.03	0.11	0.027	0.06	18.2	12.0	0.43	481	1.61	0.03
DD025734		1.32	34.9	3.30	4.91	0.06	0.08	0.12	0.031	0.08	19.3	16.2	0.83	612	1.78	0.02
DD025735		2.25	16.1	3.64	7.13	0.05	0.02	0.04	0.036	0.07	12.6	22.5	0.55	391	1.41	0.02
DD025736		1.12	15.7	2.18	3.14	<0.05	0.02	0.09	0.023	0.05	12.0	10.1	3.42	364	1.47	0.02
DD025737		1.62	34.8	2.72	5.31	<0.05	0.05	0.18	0.032	0.07	15.1	12.0	0.46	496	1.30	0.01
DD025738		0.29	2.6	0.16	0.22	<0.05	<0.02	0.02	<0.005	0.01	1.0	1.1	11.40	50	0.18	0.02
DD025739		0.42	11.5	1.07	1.12	<0.05	0.02	0.05	0.011	0.03	6.3	4.1	8.67	173	0.59	0.03
DD025740		0.59	13.7	1.55	2.35	<0.05	0.03	0.06	0.018	0.05	10.3	8.1	5.76	326	0.83	0.03
DD025741		0.76	13.6	1.83	2.84	<0.05	0.02	0.09	0.019	0.04	9.5	22.8	4.06	398	1.07	0.02
DD025742		0.43	9.5	0.75	1.09	<0.05	0.03	0.08	0.008	0.03	4.4	4.0	9.00	222	0.59	0.03
DD025743		1.77	24.1	2.58	4.56	<0.05	0.03	0.08	0.027	0.05	17.5	13.0	0.49	370	1.17	0.02
DD025744		1.62	26.0	1.89	3.19	0.06	0.04	0.09	0.026	0.05	18.2	9.1	0.33	369	1.21	0.02
DD025745		0.93	19.5	2.35	3.46	0.05	0.04	0.09	0.025	0.06	21.3	11.6	0.37	342	1.65	0.02
DD025746		1.27	25.9	1.86	3.09	<0.05	0.04	0.07	0.028	0.06	15.8	7.8	0.24	327	1.09	0.02
DD025747		1.55	23.7	2.24	3.86	0.10	0.06	0.15	0.031	0.07	17.7	10.3	0.33	511	1.53	0.02
DD025748		1.00	26.8	2.39	3.85	0.10	0.06	0.06	0.027	0.06	16.8	11.7	0.38	443	1.81	0.02
DD025749		1.65	35.1	3.15	4.69	0.14	0.12	0.11	0.039	0.09	19.1	17.3	0.43	525	5.78	0.01
DD025750		0.80	21.2	2.27	3.51	0.09	0.04	0.10	0.025	0.05	17.1	9.9	0.30	543	2.26	0.02
DD025801		2.07	28.1	2.27	4.19	0.11	0.08	0.08	0.036	0.07	20.0	9.8	0.25	411	2.57	0.01
DD025802		4.18	34.9	3.70	2.51	0.13	0.06	0.10	0.044	0.18	13.4	5.5	0.15	275	8.87	0.01
DD025803		3.24	99.9	3.29	2.83	0.18	0.29	0.50	0.031	0.10	22.0	13.9	0.13	1150	20.5	0.01
DD025804		2.28	178.5	8.47	1.90	0.20	0.24	0.24	0.043	0.06	10.3	11.8	0.07	378	18.50	0.01
DD025805		1.15	23.0	2.95	5.69	0.14	0.02	0.08	0.035	0.07	12.2	16.8	0.15	214	8.77	0.01
DD025806		1.21	138.5	5.27	6.89	0.49	0.16	0.64	0.064	0.19	60.7	7.6	0.13	89	77.9	0.02
DD025807		0.42	47.3	2.47	1.52	0.12	0.04	0.11	0.035	0.09	8.0	4.2	0.04	27	12.75	0.01
DD025808		1.63	22.3	3.05	2.79	0.12	<0.02	0.05	0.046	0.25	5.8	1.1	0.03	66	13.35	0.01
DD025809		1.33	19.7	2.53	3.85	0.08	0.02	0.06	0.037	0.07	6.9	6.3	0.09	163	7.30	0.01
DD025810		1.09	24.0	2.80	4.38	0.10	0.04	0.07	0.037	0.07	11.6	12.1	0.23	467	2.81	0.01
DD025811		1.00	41.2	2.91	3.21	0.11	0.03	0.08	0.037	0.05	9.4	9.7	0.16	257	4.36	<0.01
DD025812		1.17	16.3	2.42	3.79	0.07	0.05	0.04	0.031	0.05	9.2	11.2	0.25	392	1.99	0.01
DD025813		0.98	21.3	2.89	3.20	0.12	0.09	0.06	0.033	0.06	15.6	14.0	0.32	565	1.71	<0.01
DD025814		1.46	14.5	2.21	3.57	0.07	0.02	0.04	0.026	0.05	7.8	4.4	0.09	373	1.60	<0.01
DD025815		0.89	14.7	2.37	3.64	0.08	0.04	0.06	0.028	0.04	12.9	7.1	0.13	278	1.43	<0.01
DD025816		0.99	24.7	2.71	4.98	0.08	0.02	0.03	0.044	0.05	10.7	8.0	0.10	97	2.42	<0.01
DD025817		0.73	11.0	2.00	3.81	0.07	0.03	0.07	0.024	0.03	10.1	7.4	0.11	158	1.57	<0.01
DD025818		1.03	12.8	2.82	4.35	0.09	0.05	0.04	0.034	0.05	13.7	14.7	0.27	322	1.83	<0.01

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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD025729		0.67	31.8	1050	15.2	11.5	0.001	0.11	0.87	1.8	1.4	0.6	20.8	<0.01	0.05	0.5
DD025730		0.68	31.8	970	13.5	9.5	0.001	0.10	0.83	2.0	1.0	0.5	22.2	<0.01	0.03	0.6
DD025731		0.63	143.5	1110	11.7	6.6	0.001	0.11	5.03	1.6	0.9	0.5	40.3	<0.01	0.07	0.8
DD025732		0.50	52.7	1140	14.2	8.7	0.001	0.12	2.07	1.3	0.9	0.5	25.0	<0.01	0.05	0.4
DD025733		0.58	41.4	1110	12.7	7.1	0.001	0.08	1.33	2.0	1.4	0.5	26.6	<0.01	0.03	0.7
DD025734		0.67	50.8	1070	16.5	11.6	0.002	0.05	1.28	4.3	1.2	0.6	26.8	<0.01	0.04	1.8
DD025735		0.70	30.2	1050	14.6	11.6	0.001	0.04	0.78	1.7	0.6	0.8	15.8	<0.01	0.06	0.6
DD025736		0.41	40.9	740	12.3	7.5	0.001	0.05	1.06	1.9	0.8	0.4	35.7	<0.01	0.05	0.6
DD025737		0.51	82.4	1130	16.2	9.7	0.002	0.10	2.43	2.0	1.1	0.6	20.8	<0.01	0.06	0.7
DD025738		0.06	7.2	130	1.0	1.0	0.001	0.01	0.28	0.3	<0.2	0.2	76.4	<0.01	0.01	0.2
DD025739		0.24	32.4	520	5.0	3.4	0.002	0.04	1.41	1.2	0.4	0.2	76.1	<0.01	0.02	0.5
DD025740		0.37	21.4	790	9.3	5.9	0.001	0.07	0.76	1.5	0.7	0.4	49.0	<0.01	0.02	0.6
DD025741		0.44	23.5	720	9.8	6.4	<0.001	0.06	0.81	1.3	0.7	0.4	32.5	<0.01	0.04	0.4
DD025742		0.19	17.2	490	4.6	3.4	0.001	0.05	0.74	0.8	0.4	0.2	68.8	<0.01	0.02	0.3
DD025743		0.69	41.0	850	13.0	9.6	0.001	0.06	1.02	2.5	1.1	0.6	20.5	<0.01	0.04	1.0
DD025744		0.51	57.8	1180	11.6	7.0	0.001	0.07	1.27	1.9	1.5	0.6	54.1	<0.01	0.06	0.8
DD025745		0.64	41.0	710	12.1	6.9	0.001	0.07	1.09	2.3	1.3	0.5	32.4	<0.01	0.05	0.9
DD025746		0.52	73.0	1650	12.6	7.6	0.001	0.10	1.71	1.4	1.3	0.6	55.0	<0.01	0.06	0.5
DD025747		0.75	51.0	2060	14.5	10.7	0.001	0.12	1.31	2.2	1.7	0.6	38.9	0.01	0.07	0.5
DD025748		0.88	56.0	1060	11.7	7.6	<0.001	0.06	1.34	3.1	1.4	0.5	33.9	0.01	0.06	1.2
DD025749		0.79	76.0	760	18.0	13.7	0.001	0.06	1.76	6.4	2.5	0.6	38.2	0.01	0.10	3.5
DD025750		0.66	33.2	1240	13.1	8.5	<0.001	0.14	1.58	1.4	1.6	0.4	36.0	0.01	0.06	0.3
DD025801		0.71	103.0	2020	14.6	10.2	0.001	0.11	3.19	2.7	2.6	0.7	45.1	0.01	0.08	0.7
DD025802		0.45	219	1130	15.4	15.4	0.002	0.03	4.48	3.3	4.1	0.6	68.4	0.01	0.06	3.6
DD025803		0.29	639	1940	13.6	10.7	0.002	0.06	4.87	7.5	7.6	0.7	93.9	0.04	0.40	3.0
DD025804		0.33	633	1610	8.7	6.3	0.001	0.09	4.85	5.7	5.7	0.4	33.5	0.02	0.18	2.3
DD025805		0.77	32.4	2040	21.5	11.6	0.002	0.07	3.43	2.7	19.1	0.8	79.4	<0.01	0.11	1.2
DD025806		0.18	269	7290	14.8	17.0	0.023	0.42	16.10	9.3	53.5	0.8	624	0.03	0.87	3.2
DD025807		0.09	48.5	1640	10.7	7.3	0.005	0.23	1.29	4.0	7.5	0.4	238	0.01	0.10	1.4
DD025808		0.06	25.5	1790	22.1	19.5	0.001	0.64	1.22	0.4	15.6	0.8	130.0	<0.01	0.32	<0.2
DD025809		0.14	29.2	1500	14.7	13.8	0.001	0.09	0.64	0.6	4.0	0.6	45.3	<0.01	0.20	<0.2
DD025810		0.32	42.2	1770	15.7	11.6	0.001	0.06	0.78	1.3	2.3	0.5	35.3	0.01	0.08	0.3
DD025811		0.22	53.3	1540	14.8	9.1	0.002	0.06	1.15	0.6	6.6	0.4	29.4	0.01	0.09	<0.2
DD025812		0.38	30.4	1220	13.1	11.3	<0.001	0.06	0.71	2.0	1.3	0.5	39.4	0.01	0.06	0.6
DD025813		0.42	39.4	620	18.7	11.9	0.001	0.02	0.79	4.6	1.2	0.4	22.5	0.01	0.07	2.5
DD025814		0.59	21.7	570	12.3	10.2	<0.001	0.03	0.74	1.9	0.7	0.6	26.9	<0.01	0.08	0.5
DD025815		0.74	24.8	730	13.4	8.6	<0.001	0.05	0.82	2.4	1.1	0.5	30.0	0.01	0.08	0.8
DD025816		0.91	29.1	360	17.6	8.8	0.001	0.02	1.12	2.8	3.6	0.7	8.7	<0.01	0.16	1.9
DD025817		0.84	16.1	770	11.8	5.9	<0.001	0.08	0.66	2.1	0.9	0.5	25.2	0.01	0.06	0.8
DD025818		0.82	27.5	650	15.5	8.5	<0.001	0.02	0.66	3.1	0.8	0.5	19.5	0.01	0.06	1.9

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025729		0.028	0.17	2.38	66	0.22	21.0	121	0.6
DD025730		0.027	0.15	2.73	61	0.20	16.70	111	0.7
DD025731		0.016	0.17	1.19	91	0.90	15.45	502	1.3
DD025732		0.017	0.19	1.15	59	0.40	16.10	276	0.7
DD025733		0.029	0.16	1.06	61	0.36	15.70	176	0.7
DD025734		0.027	0.24	1.52	68	0.24	19.30	183	2.0
DD025735		0.025	0.28	0.95	74	0.27	4.88	148	<0.5
DD025736		0.015	0.18	1.53	43	0.25	12.25	175	0.5
DD025737		0.011	0.28	3.43	75	0.34	17.20	282	1.5
DD025738		<0.005	0.03	0.36	7	<0.05	0.92	28	<0.5
DD025739		0.009	0.16	1.34	27	0.22	6.09	164	0.7
DD025740		0.017	0.09	1.17	39	0.25	7.89	107	0.9
DD025741		0.018	0.10	0.77	39	0.15	6.51	119	<0.5
DD025742		0.010	0.06	1.09	24	0.15	4.57	92	0.6
DD025743		0.024	0.15	1.10	53	0.32	13.20	125	0.9
DD025744		0.016	0.17	2.65	45	0.17	21.1	193	1.2
DD025745		0.024	0.14	1.21	51	0.32	21.1	146	1.0
DD025746		0.015	0.16	3.88	54	0.24	21.2	305	1.1
DD025747		0.019	0.22	4.15	59	0.30	23.2	204	1.1
DD025748		0.030	0.19	1.33	56	0.32	17.70	184	1.4
DD025749		0.016	0.36	1.87	73	0.24	25.3	227	2.8
DD025750		0.017	0.14	2.32	53	0.30	19.55	138	0.6
DD025801		0.015	0.27	5.57	69	0.28	24.7	288	1.3
DD025802		0.010	1.42	3.12	78	0.32	14.90	1170	1.8
DD025803		<0.005	3.68	5.49	123	0.38	156.5	2650	8.2
DD025804		0.005	2.11	8.61	128	0.23	53.2	2230	7.5
DD025805		0.014	0.56	2.61	220	0.23	8.97	93	<0.5
DD025806		0.007	2.34	17.55	508	0.90	95.7	1140	4.7
DD025807		<0.005	0.23	3.35	42	0.10	23.6	127	0.8
DD025808		<0.005	0.49	1.32	66	0.10	4.80	94	<0.5
DD025809		<0.005	0.26	1.83	59	0.08	8.83	79	<0.5
DD025810		0.008	0.15	1.66	63	0.18	17.70	151	<0.5
DD025811		0.006	0.15	2.14	47	0.13	14.95	141	<0.5
DD025812		0.008	0.15	1.10	52	0.11	12.25	116	0.9
DD025813		0.007	0.14	1.08	38	0.12	18.50	127	2.2
DD025814		0.016	0.16	0.67	46	0.15	5.72	85	<0.5
DD025815		0.020	0.11	1.00	46	0.20	14.60	113	0.9
DD025816		0.016	0.19	0.84	59	0.15	5.05	91	0.6
DD025817		0.022	0.12	0.74	44	0.19	9.81	66	0.9
DD025818		0.017	0.15	0.77	46	0.21	12.00	87	1.1



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD025819		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025820		0.31	0.001	0.08	1.02	8.5	<0.2	<10	300	0.12	0.35	0.51	0.11	19.05	3.9	20
DD025821		0.29	0.002	0.18	1.40	8.3	<0.2	<10	480	0.59	0.20	0.57	1.20	31.1	8.2	31
DD025822		0.31	0.003	0.31	1.27	10.9	<0.2	<10	300	0.65	0.19	0.76	1.42	30.7	10.2	27
DD025823		0.40	0.002	0.16	0.92	8.9	<0.2	<10	220	0.89	0.28	0.49	1.28	18.15	15.2	21
DD025824		0.35	0.003	0.15	0.79	8.5	<0.2	<10	100	0.19	0.26	0.13	0.36	16.35	4.0	17
DD025825		0.38	0.003	0.24	1.59	10.5	<0.2	<10	380	0.70	0.26	0.78	1.19	32.7	11.6	32
DD025826		0.31	0.002	0.48	0.91	8.4	<0.2	<10	340	0.62	0.21	0.97	1.04	21.6	8.9	18
DD025827		0.32	0.002	0.27	1.04	8.8	<0.2	<10	270	0.53	0.20	1.20	1.38	25.4	8.2	23
DD025828		0.40	0.003	0.70	1.53	11.3	<0.2	<10	390	0.64	0.27	0.52	0.76	24.2	9.0	29
DD025829		0.33	0.003	0.57	1.15	9.4	<0.2	<10	380	0.65	0.22	1.02	1.00	22.2	6.9	30
DD025830		0.29	0.003	0.12	1.73	13.6	<0.2	<10	150	0.53	0.28	0.11	0.35	29.3	8.9	28
DD025831		0.38	0.003	0.21	0.87	9.8	<0.2	<10	120	0.28	0.20	0.07	0.38	18.55	5.8	21
DD025832		0.31	0.002	0.07	0.30	11.2	<0.2	<10	100	0.58	0.23	9.08	0.26	23.5	11.1	10
DD025833		0.28	0.001	0.16	1.56	13.3	<0.2	<10	250	0.97	0.27	0.58	0.55	37.5	10.8	27
DD025834		0.29	0.002	0.29	1.28	20.7	<0.2	10	170	0.85	0.28	4.66	0.62	31.2	10.2	23
DD025835		0.26	0.002	0.23	1.28	19.3	<0.2	10	190	0.94	0.30	4.57	0.55	30.0	7.9	25
DD025836		0.33	0.002	0.32	0.98	15.9	<0.2	10	150	0.55	0.16	8.28	0.42	18.55	6.3	17
DD025837		0.31	0.002	0.46	0.63	24.3	<0.2	<10	90	0.57	0.17	9.33	0.37	14.25	6.9	14
DD025838		0.33	0.002	0.14	0.71	31	<0.2	10	100	0.59	0.22	13.15	1.24	18.75	7.4	14
DD025839		0.31	0.001	0.14	0.68	24.0	<0.2	<10	150	0.60	0.28	9.84	0.57	21.9	5.8	16
DD025840		0.31	0.002	0.16	0.69	22	<0.2	<10	180	0.50	0.22	10.80	0.40	17.90	8.0	14
DD025841		0.32	0.002	0.24	0.99	19	<0.2	10	580	0.60	0.20	10.10	0.52	21.2	8.3	18
DD025842		0.34	0.002	0.09	0.49	22	<0.2	<10	100	0.53	0.24	10.70	0.26	15.10	9.6	14
DD025843		0.37	0.003	0.18	0.80	21	<0.2	10	180	0.59	0.21	11.15	0.45	19.65	7.7	17
DD025844		0.32	0.002	0.31	1.17	19.5	<0.2	<10	270	0.71	0.21	7.17	0.65	23.1	8.8	22
DD025845		0.34	0.002	0.46	1.16	18.1	<0.2	10	290	0.78	0.21	5.95	0.34	20.4	8.7	24
DD025846		0.32	0.002	0.47	1.47	16.8	<0.2	10	250	0.88	0.22	3.61	0.53	25.5	9.0	29
DD025847		0.30	0.001	0.31	1.10	17.8	<0.2	10	160	0.64	0.16	8.00	0.68	15.30	6.1	21
DD025848		0.33	0.001	0.27	1.25	14.2	<0.2	10	170	0.69	0.18	7.29	1.05	18.65	6.2	22
DD025849		0.29	0.002	0.29	0.82	18	<0.2	10	120	0.51	0.13	11.50	0.48	13.65	4.8	16
DD025850		0.29	0.002	0.29	2.03	12.7	<0.2	10	410	1.01	0.25	1.38	0.82	25.6	8.3	38
DD025851		0.33	0.003	0.46	1.18	11.7	<0.2	10	160	0.61	0.17	5.88	1.12	18.60	7.3	21
DD025852		0.32	0.003	0.95	0.39	6.0	<0.2	<10	150	1.15	0.17	0.46	1.19	10.20	31.1	13
DD025853		0.26	0.003	0.76	0.31	4.3	<0.2	<10	120	0.62	0.18	0.46	0.71	8.64	13.2	7
DD025854		0.29	0.004	1.66	0.65	8.1	<0.2	<10	230	0.58	0.20	0.52	0.43	10.40	9.9	20
DD025855		0.32	0.003	0.45	0.82	8.5	<0.2	<10	110	0.38	0.18	0.12	0.20	14.50	9.2	24
DD025856		0.32	0.003	0.57	0.65	5.5	<0.2	<10	150	0.38	0.15	0.39	0.37	11.35	6.2	19
DD025857		0.39	0.006	1.55	0.93	8.5	<0.2	<10	280	1.34	0.17	1.20	0.79	11.60	35.1	22
DD025858		0.35	0.007	1.24	1.52	12.2	<0.2	<10	90	0.71	0.21	0.04	0.32	12.05	14.3	47
DD025859		0.28	0.003	0.42	0.86	7.2	<0.2	<10	140	0.37	0.23	0.10	0.25	8.62	7.3	21

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025819		0.81	8.2	1.86	7.60	0.05	<0.02	0.04	0.018	0.04	9.6	5.7	0.14	134	1.75	<0.01
DD025820		0.95	15.3	2.69	3.71	0.12	0.06	0.06	0.032	0.04	19.2	11.4	0.26	311	1.49	0.01
DD025821		0.80	19.0	2.57	3.58	0.16	0.09	0.07	0.029	0.05	31.4	11.5	0.31	516	1.71	0.01
DD025822		1.54	30.5	2.72	2.38	0.13	0.14	0.08	0.043	0.08	18.3	6.1	0.15	383	1.64	<0.01
DD025823		0.77	9.7	2.48	4.73	0.06	<0.02	0.03	0.019	0.04	7.6	5.5	0.10	157	2.25	<0.01
DD025824		0.80	14.3	2.93	4.76	0.18	0.09	0.06	0.042	0.04	40.0	12.9	0.31	360	1.46	0.01
DD025825		0.75	18.6	2.23	2.37	0.12	0.09	0.10	0.034	0.06	18.7	7.9	0.18	365	1.56	0.01
DD025826		0.59	16.3	2.29	2.77	0.15	0.09	0.07	0.031	0.04	29.1	7.5	0.24	377	1.90	0.01
DD025827		1.74	20.0	3.03	4.58	0.10	0.05	0.14	0.037	0.07	12.0	13.7	0.34	490	2.60	0.01
DD025828		0.73	21.2	2.37	3.23	0.12	0.08	0.13	0.032	0.05	26.2	8.8	0.20	345	5.83	0.01
DD025829		1.32	15.4	2.96	5.96	0.10	0.02	0.04	0.029	0.05	13.9	16.0	0.40	312	2.55	<0.01
DD025830		1.52	19.1	2.15	4.06	0.08	0.03	0.06	0.021	0.06	9.6	6.5	0.16	127	5.23	<0.01
DD025831		0.53	13.4	2.24	0.81	0.08	0.06	0.07	0.024	0.10	10.7	1.8	4.94	188	3.33	0.01
DD025832		0.46	10.9	3.27	4.32	0.11	0.11	0.14	0.038	0.12	16.3	11.6	0.51	777	1.80	0.01
DD025833		0.65	22.5	2.95	3.30	0.06	0.09	2.19	0.033	0.13	14.3	10.5	2.46	435	1.78	0.01
DD025834		0.56	13.9	2.92	2.97	0.05	0.09	0.36	0.032	0.12	14.5	7.6	2.51	551	1.12	0.01
DD025835		0.56	15.1	1.72	2.38	<0.05	0.06	6.45	0.020	0.08	11.6	7.2	4.87	433	1.89	0.02
DD025836		0.90	14.2	1.83	1.53	<0.05	0.09	0.35	0.022	0.07	6.7	5.1	4.98	200	1.75	0.02
DD025837		0.92	14.8	1.85	1.61	<0.05	0.06	0.54	0.019	0.07	8.5	3.8	6.57	269	1.41	0.02
DD025838		0.77	16.2	2.24	1.62	0.05	0.10	0.27	0.025	0.10	9.6	3.5	5.53	254	1.27	0.02
DD025839		0.81	15.7	1.90	1.55	<0.05	0.09	0.08	0.022	0.09	8.4	4.7	5.98	221	1.84	0.02
DD025840		0.86	15.8	2.10	2.22	<0.05	0.08	0.22	0.023	0.08	9.7	7.2	5.56	342	1.75	0.02
DD025841		1.96	20.4	2.46	1.27	<0.05	0.06	0.19	0.023	0.13	6.7	3.0	5.13	127	1.97	0.02
DD025842		1.32	17.8	1.90	1.83	<0.05	0.12	0.03	0.023	0.11	9.2	4.7	6.13	197	3.03	0.02
DD025843		1.17	19.0	2.26	2.66	0.05	0.10	0.06	0.024	0.10	11.0	7.8	4.30	352	2.60	0.02
DD025844		1.02	22.9	2.29	2.80	<0.05	0.12	0.05	0.030	0.11	9.8	8.0	3.39	292	2.80	0.01
DD025845		0.83	20.2	2.61	3.49	0.05	0.10	0.03	0.035	0.12	12.9	11.4	2.13	431	2.79	0.01
DD025846		0.68	17.1	1.95	2.49	<0.05	0.07	0.08	0.027	0.06	8.3	8.1	4.54	275	1.60	0.02
DD025847		0.69	14.0	1.95	2.74	<0.05	0.06	0.07	0.025	0.06	9.6	7.4	4.11	389	1.24	0.02
DD025848		0.58	13.5	1.38	1.78	<0.05	0.07	0.04	0.016	0.06	6.5	5.4	6.63	224	1.19	0.02
DD025849		0.95	15.1	3.02	4.86	<0.05	0.10	0.03	0.039	0.09	12.3	11.4	0.92	500	1.94	0.01
DD025850		0.60	20.2	2.06	2.58	<0.05	0.07	0.05	0.023	0.07	9.5	9.0	3.37	335	2.43	0.02
DD025851		1.02	37.1	4.36	0.80	0.06	0.07	0.27	0.026	0.03	8.1	3.0	0.08	636	1.19	0.01
DD025852		0.94	31.4	2.15	0.67	0.05	0.07	0.21	0.037	0.04	6.8	2.9	0.05	312	0.76	0.01
DD025853		1.82	34.3	3.96	1.57	0.05	0.05	0.31	0.034	0.05	7.0	8.2	0.16	201	1.36	0.01
DD025854		1.78	28.8	2.63	2.38	<0.05	<0.02	0.05	0.025	0.04	6.8	17.4	0.25	204	1.24	0.01
DD025855		1.01	29.1	2.16	1.71	0.05	0.04	0.12	0.022	0.04	6.9	10.5	0.17	167	1.07	0.01
DD025856		1.43	58.5	3.41	1.62	0.06	0.07	0.31	0.032	0.04	6.1	15.3	0.19	423	2.26	0.01
DD025857		4.30	73.8	6.64	3.79	0.07	0.04	0.10	0.048	0.04	5.9	33.1	0.35	368	4.37	0.01
DD025858		2.33	32.3	2.91	2.87	<0.05	0.02	0.09	0.037	0.04	3.8	10.1	0.14	167	2.59	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD025819		1.49	11.2	400	14.1	4.4	<0.001	0.03	0.70	2.1	0.3	1.0	16.8	<0.01	0.04	0.8
DD025820		0.67	33.3	1060	11.7	7.9	<0.001	0.03	0.69	3.1	1.2	0.4	29.6	0.01	0.06	1.3
DD025821		0.70	32.9	990	13.5	8.7	<0.001	0.04	0.88	4.1	1.8	0.4	28.7	0.01	0.07	1.6
DD025822		0.34	55.6	920	20.5	10.8	<0.001	0.01	1.12	5.8	2.2	0.4	24.4	0.01	0.18	3.3
DD025823		0.92	16.1	480	12.6	9.1	<0.001	0.02	0.60	1.4	0.5	0.6	9.4	<0.01	0.06	0.4
DD025824		0.77	29.4	750	17.1	7.9	<0.001	0.05	0.70	3.9	1.9	0.6	28.5	0.02	0.10	1.3
DD025825		0.35	33.7	840	13.6	7.7	0.001	0.07	0.75	2.8	1.7	0.4	24.2	0.01	0.08	0.7
DD025826		0.46	28.0	920	13.3	7.2	0.001	0.08	0.77	2.4	2.0	0.4	26.7	0.02	0.10	0.5
DD025827		0.72	34.7	1040	19.7	12.1	0.001	0.05	0.74	3.1	1.8	0.6	25.5	0.01	0.06	0.9
DD025828		0.48	48.9	1050	13.7	8.5	0.002	0.06	0.76	2.8	2.9	0.5	45.3	0.01	0.06	0.6
DD025829		1.44	26.6	450	15.6	10.0	<0.001	0.02	0.95	3.0	0.8	0.7	12.6	0.01	0.06	1.8
DD025830		0.90	35.3	400	9.2	12.4	0.002	0.03	0.88	2.7	1.8	0.6	21.2	<0.01	0.05	2.0
DD025831		0.11	23.2	330	14.8	5.5	0.001	0.03	0.46	3.5	0.7	0.3	63.3	0.01	0.05	1.9
DD025832		0.87	27.0	190	25.0	13.9	<0.001	0.01	0.59	5.6	0.8	0.6	13.9	0.01	0.05	4.9
DD025833		0.60	30.4	520	19.0	8.7	0.001	0.05	1.03	4.1	0.9	0.5	42.2	<0.01	0.05	2.3
DD025834		0.35	20.3	700	20.3	8.5	0.001	0.06	0.71	4.2	0.9	0.4	32.7	<0.01	0.04	2.2
DD025835		0.33	20.6	790	11.5	7.0	0.001	0.06	0.80	2.2	0.8	0.3	64.6	<0.01	0.04	1.0
DD025836		0.19	25.1	490	12.7	4.5	0.001	0.05	0.91	2.9	0.7	0.3	79.1	<0.01	0.03	1.4
DD025837		0.15	21.3	660	13.4	5.2	0.001	0.06	0.88	1.9	0.7	0.3	83.5	<0.01	0.03	1.0
DD025838		0.17	18.4	680	14.1	6.1	0.001	0.06	0.83	3.0	0.7	0.3	61.5	<0.01	0.05	1.5
DD025839		0.21	23.8	510	12.8	5.2	0.001	0.05	0.70	2.7	0.8	0.3	93.0	<0.01	0.04	1.4
DD025840		0.31	23.3	620	13.2	6.5	0.001	0.06	0.65	2.8	0.8	0.3	89.1	<0.01	0.04	1.3
DD025841		0.11	41.3	220	18.6	6.3	0.001	0.04	0.64	3.8	0.8	0.5	73.3	<0.01	0.03	3.3
DD025842		0.18	27.6	580	14.6	6.7	0.001	0.05	0.99	2.9	0.8	0.4	88.5	<0.01	0.03	1.6
DD025843		0.29	28.9	830	15.7	7.4	0.001	0.07	0.93	2.9	0.9	0.5	61.0	<0.01	0.03	1.4
DD025844		0.26	34.6	530	13.8	7.5	0.001	0.04	0.79	3.7	1.0	0.5	62.0	<0.01	0.04	1.8
DD025845		0.34	36.3	460	16.4	9.1	0.001	0.04	0.97	4.5	1.2	0.5	36.7	<0.01	0.06	2.4
DD025846		0.28	28.8	950	11.9	6.6	0.001	0.08	0.91	2.4	1.2	0.4	52.1	<0.01	0.04	0.9
DD025847		0.30	21.5	950	14.1	6.8	0.001	0.08	0.71	1.9	1.0	0.4	52.0	<0.01	0.04	0.7
DD025848		0.21	21.3	820	8.5	5.2	0.001	0.06	0.81	1.7	0.8	0.3	69.2	<0.01	0.05	0.8
DD025849		0.53	31.3	350	16.3	11.1	<0.001	0.03	0.76	5.1	1.1	0.6	20.1	<0.01	0.07	3.2
DD025850		0.32	27.8	1010	11.4	6.4	0.001	0.07	1.02	2.2	0.9	0.4	53.2	<0.01	0.05	1.0
DD025851		0.08	166.0	1100	11.9	2.9	0.001	0.02	0.64	4.7	1.7	0.2	18.2	<0.01	0.07	1.3
DD025852		0.07	91.2	730	10.9	3.3	0.002	0.03	0.58	4.2	1.2	0.2	11.0	0.01	0.06	1.3
DD025853		0.21	65.9	690	15.4	5.1	0.002	0.04	1.00	5.0	1.1	0.3	18.8	<0.01	0.06	1.3
DD025854		0.30	33.3	570	13.3	4.4	0.001	0.03	0.80	1.7	0.8	0.2	12.9	<0.01	0.04	0.7
DD025855		0.23	34.4	620	8.9	4.3	0.001	0.03	0.62	3.1	1.2	0.2	15.8	<0.01	0.04	1.4
DD025856		0.15	124.5	820	10.9	4.2	0.002	0.06	0.80	3.9	2.4	0.2	26.5	<0.01	0.04	0.9
DD025857		0.39	51.9	1030	17.8	7.6	0.002	0.08	1.04	3.6	3.7	0.3	22.3	<0.01	0.04	2.2
DD025858		0.26	29.6	920	13.2	8.6	0.002	0.08	0.82	1.7	1.4	0.4	16.7	<0.01	0.07	0.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025819		0.045	0.13	0.65	85	0.32	2.24	39	0.5
DD025820		0.019	0.13	1.10	46	0.20	24.7	138	1.0
DD025821		0.024	0.11	1.24	45	0.22	40.0	116	1.3
DD025822		0.007	0.15	1.54	30	0.12	39.8	188	4.2
DD025823		0.027	0.12	0.53	54	0.20	3.16	59	<0.5
DD025824		0.019	0.12	0.78	52	0.23	46.2	125	1.0
DD025825		0.010	0.11	1.26	30	0.13	32.1	120	1.4
DD025826		0.015	0.09	1.04	37	0.20	45.4	107	0.9
DD025827		0.018	0.15	1.80	50	0.18	16.55	142	0.9
DD025828		0.011	0.11	3.46	44	0.20	36.1	165	1.2
DD025829		0.039	0.14	0.93	58	0.34	5.63	80	0.5
DD025830		0.023	0.15	0.73	46	0.22	5.88	115	0.9
DD025831		<0.005	0.39	0.83	11	0.05	9.66	50	1.2
DD025832		0.015	0.18	0.62	53	0.18	13.70	100	3.3
DD025833		0.016	0.21	0.67	40	0.13	14.15	106	2.5
DD025834		0.008	0.16	0.52	44	0.09	16.55	70	2.5
DD025835		0.012	0.13	0.52	31	0.18	11.50	91	1.8
DD025836		0.006	0.21	0.45	19	0.09	7.67	54	2.6
DD025837		0.006	0.18	1.27	22	0.08	8.41	96	1.8
DD025838		0.005	0.17	0.63	24	0.05	11.95	42	2.6
DD025839		0.007	0.15	0.66	22	0.07	8.99	68	2.5
DD025840		0.011	0.14	0.79	31	0.10	10.25	80	2.2
DD025841		<0.005	0.18	0.84	11	<0.05	9.34	51	1.7
DD025842		0.006	0.23	1.38	25	0.06	9.53	71	3.3
DD025843		0.010	0.22	0.97	33	0.10	11.30	97	2.7
DD025844		0.006	0.20	0.67	38	0.09	13.75	84	3.5
DD025845		0.007	0.21	0.69	48	0.11	15.45	127	3.0
DD025846		0.008	0.15	1.12	37	0.10	10.50	114	2.2
DD025847		0.008	0.14	1.10	43	0.08	11.10	151	1.8
DD025848		0.009	0.14	1.46	29	0.09	8.11	95	2.0
DD025849		0.010	0.20	0.67	76	0.13	11.65	149	2.9
DD025850		0.011	0.19	0.80	43	0.17	11.00	126	1.9
DD025851		<0.005	0.08	0.60	16	<0.05	32.3	449	2.0
DD025852		<0.005	0.07	0.38	10	<0.05	24.4	278	2.0
DD025853		0.009	0.09	0.72	22	0.06	22.5	239	1.4
DD025854		0.022	0.06	0.83	32	0.13	5.50	112	<0.5
DD025855		0.012	0.05	0.52	22	0.10	13.20	113	1.2
DD025856		0.007	0.09	0.66	21	0.12	28.7	407	1.9
DD025857		0.018	0.15	1.10	44	0.09	11.25	238	1.3
DD025858		0.010	0.09	0.57	33	0.18	5.91	131	0.6



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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025859		0.29	0.003	0.72	0.68	5.3	<0.2	<10	390	0.30	0.20	0.63	0.35	8.12	8.8	14
DD025860		0.28	0.004	1.14	0.46	8.5	<0.2	<10	360	0.33	0.23	0.40	0.28	8.59	10.8	12
DD025861		0.29	0.004	0.57	2.10	15.5	<0.2	<10	130	0.57	0.32	0.11	0.32	22.5	12.3	41
DD025862		0.27	0.004	0.52	1.39	9.9	<0.2	<10	100	0.36	0.31	0.03	0.14	8.68	5.9	33
DD025863		0.25	0.004	0.57	2.15	10.4	<0.2	<10	170	0.53	0.33	0.11	0.31	18.45	8.5	42
DD025864		0.29	0.003	0.30	1.05	10.0	<0.2	<10	120	0.26	0.36	0.04	0.16	18.70	5.9	25
DD025865		0.26	0.004	0.38	1.80	13.4	<0.2	<10	130	0.38	0.33	0.07	0.28	20.1	7.7	36
DD025866		0.30	0.002	0.86	1.40	10.8	<0.2	<10	150	0.34	0.29	0.05	0.21	17.30	5.8	31
DD025867		0.31	0.004	0.67	1.38	9.2	<0.2	<10	210	0.43	0.24	0.10	0.20	13.85	5.1	66
DD025868		0.36	0.004	0.71	1.32	8.9	<0.2	<10	210	0.48	0.25	0.09	0.18	6.26	5.0	77
DD025869		0.33	0.003	1.75	1.63	8.9	<0.2	<10	140	0.87	0.22	0.11	0.49	8.84	21.8	36
DD025870		0.27	0.004	1.19	0.74	9.1	<0.2	<10	220	0.56	0.25	1.67	0.61	28.7	18.6	20
DD025871		0.32	0.004	3.78	0.94	10.8	<0.2	<10	100	0.73	0.24	0.04	0.53	6.78	12.3	27
DD025872		0.29	0.003	0.90	0.95	13.0	<0.2	<10	110	0.71	0.27	0.03	0.43	5.77	13.7	22
DD025873		0.31	0.002	0.87	0.80	69.3	<0.2	<10	1570	0.79	0.16	0.55	1.58	27.5	8.5	24
DD025874		0.31	0.002	1.07	1.04	87.1	<0.2	<10	1400	0.74	0.11	0.22	3.33	22.5	11.9	20
DD025875		0.33	0.002	0.57	0.21	39.4	<0.2	<10	890	0.29	0.17	0.09	0.17	26.4	3.7	11
DD025876		0.27	0.004	0.57	0.74	7.3	<0.2	<10	170	0.60	0.22	0.04	0.21	14.75	13.0	14
DD025877		0.32	0.004	1.51	0.66	13.4	<0.2	<10	550	0.76	0.27	0.28	0.40	23.3	14.7	11
DD025878		0.31	0.002	0.34	0.55	51.8	<0.2	<10	1760	0.54	0.16	5.19	2.23	20.8	9.8	22
DD025879		0.31	0.002	0.27	0.41	12.1	<0.2	<10	380	0.16	0.16	0.05	0.09	32.9	1.3	20
DD025880		0.29	0.002	0.51	1.09	119.5	<0.2	<10	960	2.16	0.09	9.34	3.59	20.0	17.2	20
DD025881		0.35	0.001	0.12	0.10	9	<0.2	<10	110	0.14	0.04	19.55	2.34	6.06	1.3	8
DD025882		0.37	0.002	0.55	0.51	61.3	<0.2	<10	430	0.43	0.18	5.08	1.56	27.4	13.0	25
DD025883		0.38	0.002	2.04	0.12	12.4	<0.2	<10	70	0.17	0.10	1.34	0.26	10.35	3.3	16
DD025884		0.28	0.005	3.32	0.29	13.9	<0.2	<10	580	0.20	0.12	1.60	0.49	12.70	3.0	22
DD025885		0.28	0.005	2.44	0.25	27.6	<0.2	<10	710	0.17	0.20	0.08	0.17	22.6	1.2	41
DD025886		0.28	0.004	1.19	0.92	17.8	<0.2	<10	790	0.42	0.17	0.86	0.87	19.05	10.9	18
DD025887		0.26	0.004	2.70	0.31	13.3	<0.2	<10	600	0.26	0.15	0.55	0.56	13.90	2.1	22
DD025888		0.28	0.005	3.00	0.18	17.1	<0.2	<10	470	0.17	0.17	0.35	0.40	10.55	1.5	12
DD025889		0.27	0.004	1.84	0.26	5.0	<0.2	<10	300	0.20	0.10	0.03	0.28	21.5	2.0	8
DD025890		0.26	0.006	4.85	0.34	29.7	<0.2	<10	710	0.22	0.16	0.56	1.17	24.5	5.2	38
DD025891		0.35	0.003	1.39	0.38	18.0	<0.2	<10	760	0.31	0.15	1.62	3.79	19.75	12.9	42
DD025892		0.31	0.001	0.16	0.32	6	<0.2	<10	80	0.18	0.06	16.25	1.46	7.77	3.2	12
DD025893		0.29	0.002	0.29	0.89	18.5	<0.2	<10	230	0.31	0.21	0.12	0.15	26.1	4.3	32
DD025894		0.31	0.002	0.66	0.83	25.0	<0.2	<10	890	0.43	0.19	0.14	0.37	31.9	8.0	23
DD025895		0.33	0.003	0.31	0.57	12.8	<0.2	<10	190	0.24	0.23	0.07	0.07	12.50	2.6	20
DD025896		0.28	0.004	0.36	0.61	8.6	<0.2	<10	110	0.34	0.25	0.03	0.14	5.92	5.3	19
DD025897		0.25	0.004	0.80	0.74	6.4	<0.2	<10	1260	0.58	0.18	0.88	0.90	16.25	10.0	14
DD025898		0.32	0.002	0.13	0.56	16	<0.2	<10	140	0.55	0.08	>25.0	1.90	8.51	9.4	13

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD025859		1.56	27.5	2.73	1.52	<0.05	0.03	0.21	0.031	0.03	4.9	6.9	0.07	302	1.54	0.01
DD025860		1.12	37.3	3.66	1.05	0.05	0.05	0.26	0.033	0.03	5.6	3.4	0.11	226	1.65	0.01
DD025861		2.45	26.4	4.14	6.77	0.05	<0.02	0.07	0.038	0.06	11.9	28.6	0.49	490	2.32	0.01
DD025862		3.37	39.1	3.46	4.47	<0.05	<0.02	0.09	0.041	0.04	4.3	10.9	0.15	147	2.36	0.01
DD025863		2.76	25.9	4.31	6.42	<0.05	<0.02	0.07	0.046	0.05	8.4	25.6	0.29	480	2.12	0.01
DD025864		3.08	23.8	3.47	6.66	<0.05	<0.02	0.05	0.026	0.05	9.0	8.4	0.12	287	2.30	0.01
DD025865		2.55	21.9	4.02	6.55	<0.05	<0.02	0.05	0.037	0.05	9.7	27.6	0.36	340	2.22	0.01
DD025866		3.06	24.6	3.30	5.23	<0.05	<0.02	0.09	0.035	0.05	8.0	19.4	0.21	275	2.10	0.01
DD025867		2.73	38.3	3.43	3.76	0.06	0.02	0.14	0.043	0.05	6.7	26.1	0.44	168	1.62	0.01
DD025868		2.95	48.8	3.96	3.45	0.09	0.03	0.16	0.052	0.05	3.2	30.2	0.46	93	1.56	0.02
DD025869		7.10	62.5	3.62	3.21	0.06	0.05	0.20	0.047	0.05	4.5	46.1	0.35	424	1.74	0.02
DD025870		0.85	39.0	3.28	1.91	0.07	0.04	0.26	0.041	0.04	21.1	4.7	0.13	287	3.95	0.01
DD025871		8.29	51.2	4.37	3.05	<0.05	0.03	0.15	0.041	0.06	3.3	22.5	0.14	249	3.69	0.01
DD025872		5.90	68.0	3.84	2.50	<0.05	0.02	0.07	0.042	0.05	3.0	21.2	0.10	202	2.22	0.01
DD025873		5.64	20.1	3.05	1.96	<0.05	0.05	0.10	0.031	0.10	14.6	5.0	0.20	316	2.35	0.02
DD025874		5.00	22.2	2.53	1.53	0.05	0.05	0.14	0.029	0.08	10.5	4.7	0.10	210	1.23	0.01
DD025875		3.15	16.4	1.18	0.96	0.05	0.03	0.06	0.029	0.11	14.5	1.2	0.02	26	0.59	0.01
DD025876		2.20	34.2	2.90	1.65	<0.05	0.04	0.08	0.031	0.08	6.7	10.6	0.17	176	1.05	0.01
DD025877		6.49	41.2	3.35	1.60	0.05	0.04	0.14	0.040	0.14	10.3	6.8	0.15	332	1.63	0.01
DD025878		2.88	46.7	2.56	1.45	0.07	0.13	0.28	0.042	0.06	19.2	3.8	0.08	261	0.99	0.02
DD025879		4.18	12.2	1.14	2.96	0.05	<0.02	0.03	0.020	0.09	19.1	1.7	0.03	32	3.75	0.01
DD025880		3.51	20.9	3.57	1.23	0.08	0.05	0.14	0.040	0.03	25.5	2.8	5.00	630	3.35	0.02
DD025881		0.15	3.7	0.37	0.36	0.08	0.03	0.04	0.022	0.01	15.4	0.9	12.25	241	0.24	0.03
DD025882		5.95	26.3	2.85	1.52	0.07	0.05	0.09	0.040	0.08	22.9	2.7	1.46	463	3.83	0.02
DD025883		2.29	27.3	2.27	0.43	<0.05	0.08	0.09	0.024	0.04	7.0	2.1	0.28	86	0.59	0.01
DD025884		1.71	35.4	1.83	0.76	0.05	0.04	0.12	0.025	0.10	7.5	4.8	0.06	97	2.74	0.02
DD025885		1.86	19.2	2.58	2.46	0.06	<0.02	0.06	0.038	0.22	15.6	2.8	0.02	25	2.42	0.01
DD025886		4.42	44.8	2.96	1.83	0.07	0.06	0.13	0.036	0.12	10.1	6.9	0.15	243	4.22	0.02
DD025887		1.31	31.5	1.80	1.03	0.05	0.04	0.11	0.026	0.15	9.9	4.3	0.06	60	4.33	0.01
DD025888		1.49	22.2	1.85	0.59	0.05	0.03	0.11	0.029	0.14	7.3	2.1	0.03	56	6.67	0.01
DD025889		3.26	23.0	0.83	0.67	<0.05	<0.02	0.05	0.012	0.07	12.9	1.9	0.03	22	1.87	0.01
DD025890		2.44	52.2	3.00	1.20	0.07	0.02	0.21	0.033	0.10	16.1	2.9	0.05	154	4.60	0.01
DD025891		3.05	25.1	2.08	1.87	0.05	0.05	0.18	0.027	0.16	13.7	1.6	0.85	572	2.85	0.01
DD025892		0.42	5.7	0.76	0.81	0.05	0.04	0.02	0.018	0.02	12.7	1.9	9.99	528	0.29	0.03
DD025893		5.67	13.4	2.37	4.77	<0.05	<0.02	0.02	0.029	0.12	15.6	6.5	0.17	206	4.56	0.01
DD025894		3.61	23.3	2.70	2.38	0.06	0.02	0.06	0.035	0.07	13.7	6.9	0.16	277	3.07	0.01
DD025895		3.04	18.8	2.89	2.73	<0.05	<0.02	0.04	0.029	0.06	6.5	1.4	0.03	58	5.20	0.01
DD025896		2.92	33.0	3.10	2.72	<0.05	<0.02	0.05	0.031	0.05	3.2	1.7	0.04	115	2.79	0.01
DD025897		1.06	27.6	2.42	1.66	0.05	0.03	0.18	0.033	0.03	11.5	4.4	0.09	375	1.23	0.02
DD025898		0.63	20.6	0.97	1.25	<0.05	0.04	0.23	0.016	0.05	5.5	3.6	0.17	152	3.21	0.02

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD025859		0.15	35.8	970	12.9	5.6	0.001	0.09	0.80	2.5	1.1	0.3	21.4	<0.01	0.05	0.5
DD025860		0.13	50.1	510	14.4	3.6	0.002	0.04	1.11	4.8	1.7	0.2	20.3	<0.01	0.07	1.0
DD025861		0.86	28.8	700	20.2	10.1	0.001	0.04	1.18	2.3	1.1	0.7	16.5	<0.01	0.05	0.6
DD025862		0.26	25.4	1000	16.9	8.9	0.001	0.07	1.02	0.8	1.4	0.5	19.1	<0.01	0.07	0.2
DD025863		0.73	23.3	880	19.1	11.8	0.002	0.06	0.99	1.7	1.3	0.7	34.1	<0.01	0.07	0.4
DD025864		1.03	18.3	410	15.8	12.2	0.002	0.02	1.09	1.8	0.8	0.8	16.7	<0.01	0.07	1.4
DD025865		1.27	22.7	490	15.6	12.7	0.001	0.04	1.08	2.3	1.0	0.7	22.1	<0.01	0.06	1.4
DD025866		0.83	19.1	500	14.8	12.2	0.001	0.04	0.99	1.7	1.1	0.6	14.9	<0.01	0.06	0.7
DD025867		0.37	30.4	570	13.2	7.7	0.004	0.07	0.82	2.5	2.8	0.3	46.2	<0.01	0.02	2.7
DD025868		0.18	39.2	520	15.3	6.9	0.003	0.12	0.91	2.5	4.3	0.3	80.6	<0.01	0.05	3.1
DD025869		0.25	91.2	1040	15.2	7.4	0.001	0.10	1.09	2.9	1.8	0.3	41.2	<0.01	0.07	1.1
DD025870		0.20	115.5	520	15.6	4.4	<0.001	0.05	0.92	3.7	1.4	0.3	22.3	<0.01	0.06	1.6
DD025871		0.25	56.8	660	17.9	11.8	0.001	0.07	1.08	5.4	2.3	0.4	28.9	<0.01	0.08	1.1
DD025872		0.30	85.3	620	25.4	8.3	0.001	0.05	1.16	2.5	1.4	0.3	23.6	<0.01	0.08	1.0
DD025873		0.24	49.3	880	35.9	9.2	0.001	0.17	3.67	2.8	1.2	0.4	22.1	<0.01	0.06	0.9
DD025874		0.21	86.8	540	235	6.6	0.001	0.13	4.38	3.4	0.6	0.4	46.0	<0.01	0.07	1.3
DD025875		<0.05	19.8	370	12.7	10.6	0.003	0.14	0.96	2.1	0.6	0.4	71.0	<0.01	0.09	2.8
DD025876		<0.05	59.2	550	14.8	7.4	0.002	0.05	1.05	3.4	1.1	0.2	7.8	<0.01	0.12	1.3
DD025877		0.08	59.3	600	24.8	12.5	0.002	0.04	1.45	4.9	1.7	0.4	19.9	<0.01	0.12	2.2
DD025878		0.10	81.5	1240	34.8	5.6	<0.001	0.06	4.33	2.9	1.1	0.3	45.0	<0.01	0.13	1.4
DD025879		0.23	9.0	560	10.0	11.3	<0.001	0.08	0.95	1.0	1.0	0.5	16.2	<0.01	0.09	0.7
DD025880		0.08	125.5	2380	211	4.0	<0.001	0.08	13.30	4.2	1.6	0.5	125.5	<0.01	0.13	1.0
DD025881		<0.05	6.5	730	3.2	0.7	<0.001	0.04	1.48	1.4	0.6	0.2	118.0	<0.01	0.03	0.5
DD025882		0.10	52.0	1180	14.7	8.5	0.001	0.07	5.10	3.5	1.0	0.4	26.8	<0.01	0.21	2.6
DD025883		<0.05	26.5	810	7.0	3.0	0.001	0.17	1.34	3.1	0.6	<0.2	18.6	<0.01	0.08	1.5
DD025884		<0.05	43.5	1160	7.1	6.5	0.003	0.30	1.48	2.4	3.8	0.2	63.2	<0.01	0.06	1.8
DD025885		0.09	10.5	1520	11.8	13.7	0.001	0.56	1.19	0.6	2.7	0.4	44.3	<0.01	0.10	0.2
DD025886		0.20	73.7	1530	12.5	10.5	0.002	0.29	2.30	3.5	3.1	0.3	131.5	<0.01	0.20	1.4
DD025887		<0.05	32.6	1110	9.3	9.7	0.005	0.48	1.16	2.0	4.6	0.3	98.8	<0.01	0.15	1.5
DD025888		<0.05	24.8	770	11.6	9.2	0.007	0.39	1.26	1.5	8.3	0.3	101.5	<0.01	0.14	1.9
DD025889		<0.05	16.9	340	4.5	6.6	0.004	0.05	1.17	1.2	2.6	0.2	39.6	<0.01	0.07	0.9
DD025890		<0.05	69.1	1580	11.1	8.1	0.005	0.25	2.24	3.2	8.1	4.6	42.2	<0.01	0.11	1.3
DD025891		0.08	37.2	910	38.4	8.8	0.001	0.24	2.14	4.7	1.8	0.4	22.8	<0.01	0.12	2.3
DD025892		0.09	13.9	840	5.6	2.2	0.001	0.07	0.84	1.3	0.7	0.2	67.6	<0.01	0.04	0.4
DD025893		0.34	19.6	540	11.4	11.4	0.002	0.16	1.05	1.2	0.9	0.6	12.8	<0.01	0.09	0.3
DD025894		0.27	47.0	710	13.8	8.7	0.001	0.07	1.61	2.6	1.0	0.4	13.5	<0.01	0.08	1.3
DD025895		0.19	16.1	950	14.4	8.3	0.002	0.11	0.96	0.8	2.0	0.5	14.3	<0.01	0.07	0.3
DD025896		0.14	38.2	1070	14.4	7.6	0.001	0.08	0.94	0.7	1.2	0.4	10.3	<0.01	0.07	<0.2
DD025897		0.19	54.0	1120	11.4	5.4	<0.001	0.10	0.73	2.9	1.2	0.3	18.4	<0.01	0.05	0.4
DD025898		0.22	79.4	740	5.9	3.6	0.002	0.05	1.77	2.0	0.7	0.3	163.5	<0.01	0.05	0.8



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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025859		0.006	0.10	0.54	19	0.07	10.80	142	0.9
DD025860		0.006	0.12	0.52	17	0.06	18.45	150	1.3
DD025861		0.040	0.17	0.86	62	0.29	6.44	141	<0.5
DD025862		0.011	0.15	0.81	50	0.09	3.70	117	<0.5
DD025863		0.029	0.15	0.97	63	0.17	4.83	134	<0.5
DD025864		0.035	0.18	0.55	74	0.19	2.82	102	<0.5
DD025865		0.041	0.16	0.62	66	0.27	3.17	99	<0.5
DD025866		0.026	0.17	0.65	59	0.18	3.05	102	<0.5
DD025867		0.019	0.09	0.77	43	0.10	5.80	104	0.6
DD025868		0.011	0.09	0.70	38	<0.05	6.52	166	1.8
DD025869		0.011	0.19	0.98	31	0.07	20.9	297	1.4
DD025870		0.007	0.14	0.38	24	0.10	21.6	345	1.2
DD025871		0.008	0.19	0.76	36	0.05	10.60	227	0.9
DD025872		0.008	0.10	0.69	26	0.06	9.98	317	0.8
DD025873		0.010	2.41	1.24	42	0.17	16.85	382	1.6
DD025874		0.008	1.81	1.10	30	0.08	16.30	822	1.6
DD025875		<0.005	1.63	0.45	16	<0.05	5.35	74	1.8
DD025876		<0.005	0.08	1.11	15	<0.05	9.10	185	1.1
DD025877		<0.005	0.30	1.17	18	<0.05	15.20	186	1.2
DD025878		<0.005	1.48	0.90	30	0.06	48.0	663	3.5
DD025879		0.007	0.42	0.33	49	0.06	2.29	48	<0.5
DD025880		<0.005	6.44	1.24	61	0.06	55.9	1330	1.7
DD025881		<0.005	0.23	0.97	14	<0.05	33.2	112	0.8
DD025882		<0.005	1.82	0.83	39	0.05	27.4	291	1.6
DD025883		<0.005	0.53	0.49	13	<0.05	12.30	127	4.7
DD025884		<0.005	0.27	0.97	24	<0.05	18.70	157	2.1
DD025885		0.005	0.72	0.79	47	0.05	3.77	53	<0.5
DD025886		0.007	0.29	1.59	34	0.08	22.8	236	2.2
DD025887		<0.005	0.26	0.94	28	0.05	14.05	115	1.7
DD025888		<0.005	0.30	1.34	31	<0.05	10.00	92	1.6
DD025889		<0.005	0.15	0.64	14	<0.05	14.95	59	<0.5
DD025890		<0.005	0.55	1.39	34	0.07	23.6	207	1.0
DD025891		0.005	2.86	0.64	46	<0.05	16.15	468	1.5
DD025892		0.006	0.19	1.59	46	<0.05	22.1	156	1.2
DD025893		0.020	0.35	0.70	61	0.15	3.91	92	<0.5
DD025894		0.011	0.21	0.69	36	0.09	13.15	175	0.6
DD025895		0.008	0.14	0.57	33	0.07	3.24	81	<0.5
DD025896		0.007	0.13	0.63	33	0.06	4.23	163	<0.5
DD025897		0.007	0.06	0.54	20	0.06	26.4	216	0.7
DD025898		0.007	0.36	3.56	38	0.06	16.30	320	1.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD025899		0.38	0.004	0.21	1.22	38	<0.2	<10	400	1.78	0.22	14.00	5.56	28.7	39.3	37
DD025900		0.18	0.003	0.09	1.68	12.0	<0.2	<10	170	0.45	0.26	0.30	0.21	22.4	4.6	26
ZZ69171		0.21	0.002	0.51	0.85	18.8	<0.2	<10	190	0.43	0.23	0.06	0.35	25.6	6.2	28
ZZ69172		0.16	0.003	1.50	1.31	16.5	<0.2	<10	680	0.62	0.29	0.71	0.69	24.5	7.7	33
ZZ69173		0.22	0.007	1.21	1.48	18.8	<0.2	<10	610	0.68	0.29	0.45	0.68	23.3	8.0	39
ZZ69174		0.24	0.004	0.57	1.29	15.8	<0.2	<10	400	0.51	0.27	0.47	0.42	15.70	5.4	38
ZZ69175		0.29	0.003	0.87	0.53	19.6	<0.2	<10	630	0.29	0.20	0.08	0.28	20.4	3.5	18
ZZ69176		0.25	0.004	0.87	0.66	12.2	<0.2	<10	510	0.48	0.25	0.17	0.35	18.65	7.2	17
ZZ69177		0.20	0.003	0.81	0.83	18.2	<0.2	<10	660	0.52	0.19	2.11	1.42	16.90	7.5	23
ZZ69178		0.21	0.005	0.40	0.95	15.0	<0.2	10	380	0.53	0.16	2.77	1.80	18.45	8.6	23
ZZ69179		0.14	0.002	0.20	1.25	13.8	<0.2	<10	260	0.70	0.17	2.59	0.70	25.1	8.3	20
ZZ69180		0.17	0.003	0.37	2.07	14.3	<0.2	<10	120	0.89	0.19	0.13	0.53	58.0	14.0	30
ZZ69181		0.23	0.003	0.29	0.62	13.0	<0.2	<10	140	0.26	0.28	0.14	0.38	19.80	3.9	18
ZZ69182		0.20	0.004	0.38	1.25	15.6	<0.2	<10	330	0.71	0.20	0.99	0.52	27.8	8.2	25
ZZ69183		0.23	0.003	0.10	1.49	11.4	<0.2	<10	140	0.38	0.28	0.08	0.18	25.1	5.8	23
ZZ69184		0.18	0.003	0.13	1.13	12.2	<0.2	<10	150	0.32	0.22	0.08	0.40	20.3	5.0	21
ZZ69185		0.17	0.003	0.25	0.68	10.3	<0.2	<10	110	0.20	0.35	0.07	0.44	22.7	5.0	15
ZZ69186		0.14	0.002	0.18	0.78	7.5	<0.2	<10	200	0.26	0.24	0.29	0.95	13.45	4.0	19
ZZ69187		0.17	0.002	0.19	0.90	8.7	<0.2	<10	380	0.30	0.25	1.72	0.88	19.60	4.3	17
ZZ69188		0.23	0.002	0.56	0.36	29	<0.2	<10	170	0.80	0.05	11.20	4.66	7.48	5.0	17
ZZ69189		0.18	0.004	0.40	0.48	12.5	<0.2	<10	750	0.30	0.15	1.10	3.96	23.0	3.5	11
ZZ69190		0.17	0.003	0.29	1.05	13.1	<0.2	<10	450	0.67	0.20	1.51	1.40	23.1	6.8	22
ZZ69191		0.20	0.002	0.86	0.94	12.9	<0.2	<10	100	0.71	0.23	0.04	0.45	7.67	12.3	31
ZZ69192		0.15	0.008	0.34	0.58	10.5	<0.2	<10	50	0.17	0.26	0.03	0.09	22.5	3.9	13
ZZ69193		0.14	0.001	1.30	1.36	4.8	<0.2	<10	5350	0.51	0.07	1.50	0.40	15.05	5.1	17
ZZ69194		0.22	0.002	0.51	1.18	14.1	<0.2	<10	890	0.65	0.20	1.19	0.91	27.5	8.2	32
ZZ69195		0.22	0.004	0.63	0.50	42.2	<0.2	<10	310	0.35	0.21	0.47	0.69	8.32	3.8	21
ZZ69196		0.18	0.003	1.26	0.49	9.2	<0.2	<10	890	0.33	0.22	0.74	0.41	13.20	8.8	17
ZZ69197		0.26	0.004	0.41	1.03	10.2	<0.2	<10	90	0.33	0.25	0.04	0.16	13.65	4.0	23
ZZ69198		0.18	0.005	0.15	1.72	13.9	<0.2	<10	160	0.67	0.22	0.21	0.26	31.1	11.7	30
ZZ69199		0.20	0.005	0.33	1.35	13.3	<0.2	<10	90	0.39	0.24	0.07	0.25	17.60	7.8	26
ZZ69200		0.18	0.003	0.12	1.27	12.6	<0.2	<10	110	0.35	0.33	0.07	0.20	25.4	6.6	26
ZZ69201		0.32	0.003	0.23	0.27	13.4	<0.2	<10	180	0.20	0.24	0.02	0.02	17.15	3.7	8
ZZ69202		0.20	0.002	0.35	0.47	10.7	<0.2	<10	180	0.19	0.26	0.05	0.58	20.2	3.5	13
ZZ69203		0.17	0.001	0.14	0.85	10.3	<0.2	<10	250	0.32	0.25	0.56	1.25	17.15	5.9	19
ZZ69204		0.19	0.003	1.40	1.08	36.9	<0.2	<10	190	0.84	0.15	2.32	11.40	27.6	8.8	35
ZZ69205		0.22	0.003	0.58	0.54	13.0	<0.2	<10	120	0.31	0.20	0.04	0.32	20.7	5.3	18
ZZ69206		0.21	0.001	0.35	0.47	9.6	<0.2	<10	200	0.17	0.19	0.03	0.13	23.0	2.3	13
ZZ69207		0.19	0.003	0.77	1.05	13.5	<0.2	<10	440	0.48	0.22	0.62	0.55	21.2	7.0	25
ZZ69208		0.25	0.006	5.07	0.61	58.1	<0.2	10	1350	0.58	0.24	1.53	8.56	33.1	10.1	42





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD025899		1.22	103.5	2.85	2.93	0.07	0.14	0.40	0.039	0.10	18.4	6.5	0.19	594	18.70	0.02
DD025900		1.33	10.9	2.93	6.23	<0.05	<0.02	0.05	0.027	0.04	10.0	10.9	0.24	182	2.30	0.01
ZZ69171		17.75	24.1	3.05	2.67	0.05	<0.02	0.06	0.030	0.08	15.3	5.7	0.15	218	3.15	0.01
ZZ69172		22.3	23.7	3.08	3.63	0.06	0.03	0.21	0.035	0.11	16.5	9.4	0.24	342	2.19	0.02
ZZ69173		15.25	27.9	3.28	4.23	0.06	0.04	0.20	0.036	0.10	13.5	14.9	0.33	323	2.39	0.01
ZZ69174		7.94	24.4	2.95	3.88	<0.05	0.05	0.16	0.034	0.07	7.9	15.8	0.30	194	3.83	0.01
ZZ69175		7.60	22.2	2.31	2.01	0.06	0.02	0.09	0.019	0.10	12.9	7.0	0.08	63	1.65	0.02
ZZ69176		16.25	32.0	2.75	2.24	0.06	0.04	0.10	0.023	0.08	10.8	8.6	0.11	120	1.67	0.02
ZZ69177		3.08	24.7	2.68	2.72	0.07	0.04	0.12	0.020	0.08	14.5	7.9	0.27	349	1.96	0.03
ZZ69178		0.90	19.6	2.51	2.80	0.06	0.03	0.12	0.017	0.07	17.8	9.4	0.48	562	2.25	0.03
ZZ69179		1.20	15.5	2.44	3.76	0.06	0.04	0.14	0.019	0.05	12.5	11.9	0.98	567	1.95	0.03
ZZ69180		2.21	19.9	3.41	4.39	0.08	0.05	0.08	0.031	0.04	15.4	25.1	0.33	364	2.40	0.02
ZZ69181		3.08	15.3	2.19	5.95	0.05	<0.02	0.07	0.010	0.07	10.7	3.5	0.08	118	1.71	0.02
ZZ69182		5.00	19.2	2.88	4.08	0.07	0.05	0.15	0.023	0.06	15.1	15.7	0.49	377	1.98	0.02
ZZ69183		7.04	15.7	2.54	7.49	0.05	<0.02	0.03	0.014	0.04	13.1	8.9	0.24	214	2.13	0.02
ZZ69184		4.00	13.2	2.74	6.21	0.05	<0.02	0.03	0.013	0.03	8.4	9.2	0.13	197	2.58	0.02
ZZ69185		11.60	16.6	2.06	6.38	0.05	<0.02	0.03	0.010	0.05	11.9	2.5	0.06	256	2.71	0.02
ZZ69186		7.45	11.2	1.76	5.01	<0.05	<0.02	0.05	0.017	0.05	8.6	5.4	0.11	645	1.55	0.02
ZZ69187		8.13	11.1	1.85	5.90	0.05	<0.02	0.03	0.011	0.05	11.8	4.8	0.84	347	1.44	0.02
ZZ69188		2.18	8.7	1.22	1.84	<0.05	0.05	0.07	0.010	0.02	7.8	2.4	6.74	373	1.37	0.04
ZZ69189		5.23	16.0	1.38	2.26	<0.05	0.03	0.06	0.010	0.07	13.3	2.4	0.06	175	1.47	0.02
ZZ69190		2.62	13.4	2.52	3.82	0.05	0.03	0.08	0.019	0.05	10.8	9.7	0.50	645	2.03	0.02
ZZ69191		4.73	52.0	3.30	2.92	0.06	0.04	0.10	0.035	0.05	4.0	24.2	0.21	186	2.29	0.02
ZZ69192		3.74	20.2	1.94	6.11	<0.05	<0.02	0.04	0.009	0.03	11.7	4.4	0.05	74	2.33	0.01
ZZ69193		0.91	8.8	2.65	2.06	0.05	0.03	0.28	0.012	0.02	9.2	6.2	0.04	227	0.67	0.03
ZZ69194		1.28	21.9	2.89	3.63	0.06	0.03	0.09	0.022	0.05	16.4	9.7	0.28	483	4.09	0.02
ZZ69195		6.38	25.6	2.38	2.61	<0.05	0.03	0.06	0.018	0.06	4.4	4.4	0.06	91	2.55	0.02
ZZ69196		3.80	39.3	5.73	1.32	0.09	0.08	0.31	0.028	0.07	9.1	2.7	0.15	317	2.67	0.02
ZZ69197		3.96	28.5	2.90	5.78	0.05	<0.02	0.11	0.023	0.04	7.3	9.3	0.11	106	2.76	0.02
ZZ69198		1.92	18.3	2.96	5.49	0.07	0.04	0.05	0.021	0.05	15.7	19.7	0.51	375	1.96	0.02
ZZ69199		3.75	23.9	2.89	5.45	0.05	<0.02	0.08	0.021	0.05	9.1	15.7	0.27	265	2.21	0.02
ZZ69200		11.95	18.5	3.29	7.23	0.06	<0.02	0.02	0.017	0.07	13.2	10.0	0.23	330	2.25	0.02
ZZ69201		10.80	13.2	1.73	1.32	0.05	<0.02	0.04	0.020	0.12	8.8	1.1	0.03	16	0.82	0.02
ZZ69202		6.85	14.7	1.87	4.81	0.05	<0.02	0.06	0.009	0.06	10.9	1.4	0.03	71	2.95	0.02
ZZ69203		3.38	13.3	2.08	5.19	<0.05	<0.02	0.02	0.015	0.04	9.6	6.1	0.21	446	2.03	0.02
ZZ69204		1.22	14.9	2.58	4.58	0.09	0.08	0.13	0.027	0.03	23.8	5.9	1.20	857	1.76	0.02
ZZ69205		4.79	16.7	2.55	3.19	0.06	0.02	0.03	0.018	0.07	11.9	5.5	0.08	102	2.23	0.01
ZZ69206		5.26	10.1	1.25	4.11	<0.05	<0.02	0.03	<0.005	0.05	12.9	2.4	0.04	47	2.35	0.02
ZZ69207		2.89	16.5	2.40	4.57	0.06	0.03	0.06	0.019	0.05	12.0	9.9	0.29	195	1.67	0.02
ZZ69208		10.95	78.3	2.89	2.53	0.15	0.11	0.27	0.040	0.09	32.0	7.3	0.53	349	24.8	0.03

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD025899		0.45	263	1510	15.8	6.9	0.002	0.07	8.37	7.8	4.4	0.7	136.5	<0.01	0.22	3.9
DD025900		0.85	16.8	610	14.6	7.0	0.001	0.05	0.93	1.3	1.2	0.7	15.1	<0.01	0.05	0.3
ZZ69171		0.28	26.0	950	22.9	12.0	0.002	0.09	1.73	2.1	1.9	0.4	26.3	<0.01	0.09	1.0
ZZ69172		0.44	27.9	1350	32.6	20.6	0.001	0.12	1.75	2.4	1.9	0.5	32.6	<0.01	0.08	0.8
ZZ69173		0.50	35.9	1020	23.2	18.2	0.001	0.08	1.41	3.6	1.2	0.5	25.5	<0.01	0.08	1.4
ZZ69174		0.41	24.5	780	18.6	12.3	0.002	0.07	1.01	2.5	0.9	0.4	23.1	<0.01	0.06	1.3
ZZ69175		0.17	18.0	620	20.4	12.2	0.003	0.16	1.27	1.8	2.0	0.3	20.6	<0.01	0.06	1.2
ZZ69176		0.14	36.0	610	24.0	15.9	0.002	0.07	1.06	3.6	2.0	0.3	18.5	<0.01	0.09	1.7
ZZ69177		0.37	31.4	1200	21.1	8.6	0.001	0.14	1.31	1.8	2.4	0.3	24.9	<0.01	0.06	0.4
ZZ69178		0.34	29.6	1630	23.2	7.6	<0.001	0.18	1.00	1.3	1.7	0.3	25.2	<0.01	0.04	0.3
ZZ69179		0.57	21.2	1060	16.3	8.2	<0.001	0.11	1.03	2.6	1.1	0.4	40.1	<0.01	0.04	0.7
ZZ69180		0.63	34.5	1110	18.3	9.7	0.001	0.07	1.00	2.9	1.5	0.3	11.7	<0.01	0.05	1.1
ZZ69181		0.73	15.5	610	14.0	13.1	<0.001	0.07	0.97	1.2	0.8	0.7	15.0	<0.01	0.06	0.3
ZZ69182		0.53	26.1	880	19.7	9.9	0.001	0.08	1.00	3.7	1.3	0.4	26.3	<0.01	0.05	1.6
ZZ69183		0.80	17.2	330	13.6	8.7	<0.001	0.04	0.95	1.3	0.9	0.8	10.1	<0.01	0.05	0.2
ZZ69184		0.82	18.6	420	14.8	6.3	<0.001	0.04	0.94	1.5	0.9	0.6	7.2	<0.01	0.05	0.3
ZZ69185		0.99	15.7	370	17.8	9.0	<0.001	0.04	1.10	1.4	0.6	0.9	8.0	<0.01	0.06	0.5
ZZ69186		0.23	14.6	1250	9.7	9.5	<0.001	0.11	0.88	0.6	0.6	0.6	9.3	<0.01	0.06	<0.2
ZZ69187		0.57	13.7	710	13.7	13.3	<0.001	0.08	0.80	1.2	0.7	0.8	14.8	<0.01	0.04	0.2
ZZ69188		0.13	20.4	790	140.0	3.4	<0.001	0.05	5.42	2.5	1.2	0.3	71.6	<0.01	0.04	0.6
ZZ69189		0.30	17.9	630	14.7	11.5	0.001	0.10	1.36	1.5	1.3	0.4	19.4	<0.01	0.05	0.4
ZZ69190		0.49	18.9	1030	24.3	7.8	<0.001	0.11	0.95	2.0	1.0	0.4	23.4	<0.01	0.05	0.5
ZZ69191		0.25	36.7	720	18.4	8.7	0.003	0.08	1.02	2.5	3.0	0.3	27.4	<0.01	0.06	0.8
ZZ69192		0.84	17.1	280	10.8	7.2	<0.001	0.03	0.96	1.4	0.8	0.8	6.0	<0.01	0.05	0.9
ZZ69193		0.42	15.7	1510	7.6	2.9	<0.001	0.09	0.25	2.9	2.0	0.2	26.6	<0.01	0.02	0.6
ZZ69194		0.45	35.4	730	14.0	8.3	<0.001	0.08	0.90	2.3	1.7	0.4	18.0	<0.01	0.04	0.5
ZZ69195		0.42	23.8	720	48.2	10.4	0.002	0.08	2.67	2.2	1.9	0.3	22.2	<0.01	0.06	0.8
ZZ69196		0.14	54.7	1020	16.1	7.4	<0.001	0.09	0.96	5.3	2.4	0.2	25.8	<0.01	0.08	1.4
ZZ69197		0.38	17.6	900	12.6	9.1	0.001	0.09	1.01	0.6	1.7	0.6	8.8	<0.01	0.07	<0.2
ZZ69198		1.13	25.5	880	12.1	8.8	0.001	0.04	1.05	3.4	1.3	0.5	17.5	<0.01	0.04	2.7
ZZ69199		0.88	23.9	600	14.2	9.2	0.001	0.06	1.11	2.0	1.3	0.5	10.5	<0.01	0.06	0.6
ZZ69200		0.88	19.2	350	17.2	17.3	<0.001	0.04	1.12	1.6	0.9	0.8	10.6	<0.01	0.05	0.4
ZZ69201		0.06	14.9	280	14.6	12.9	0.003	0.09	1.05	1.9	2.3	0.3	13.4	<0.01	0.13	2.6
ZZ69202		0.52	18.0	490	13.7	8.3	0.001	0.08	1.89	1.2	1.2	0.7	7.6	<0.01	0.07	0.2
ZZ69203		0.55	17.4	710	18.1	7.0	<0.001	0.07	1.36	1.6	0.8	0.6	11.8	<0.01	0.07	0.4
ZZ69204		0.38	31.8	900	62.1	5.7	0.001	0.08	7.09	4.7	3.1	0.3	33.0	<0.01	0.13	1.1
ZZ69205		0.62	33.6	450	18.4	11.0	0.001	0.08	1.92	1.8	2.1	0.3	14.1	<0.01	0.09	2.4
ZZ69206		0.41	13.1	330	12.3	9.3	0.001	0.05	1.09	1.0	1.1	0.6	8.4	<0.01	0.05	0.3
ZZ69207		0.68	33.0	760	24.4	7.2	0.001	0.06	1.74	3.1	1.5	0.5	17.1	<0.01	0.06	1.3
ZZ69208		0.18	182.5	1900	91.7	11.2	0.004	0.11	14.40	5.3	12.7	0.9	63.4	<0.01	0.12	1.5

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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD025899		0.013	1.81	4.34	138	0.17	51.5	873	9.7
DD025900		0.028	0.25	0.84	71	0.30	3.56	67	<0.5
ZZ69171		0.014	0.40	0.98	34	0.10	7.37	188	<0.5
ZZ69172		0.014	0.43	1.41	42	0.15	20.5	217	0.7
ZZ69173		0.015	0.33	1.31	44	0.14	13.00	195	1.2
ZZ69174		0.011	0.26	1.17	37	0.12	7.46	130	1.4
ZZ69175		0.005	0.35	0.75	20	<0.05	5.25	106	<0.5
ZZ69176		<0.005	0.30	1.07	21	<0.05	9.94	164	1.0
ZZ69177		0.010	0.19	0.70	30	0.10	14.35	238	0.7
ZZ69178		0.009	0.17	0.57	34	0.09	16.25	267	0.6
ZZ69179		0.014	0.16	1.14	41	0.22	12.95	94	0.9
ZZ69180		0.013	0.16	1.29	47	0.21	11.50	113	0.9
ZZ69181		0.033	0.15	0.51	62	0.19	3.96	90	<0.5
ZZ69182		0.012	0.17	1.43	45	0.25	14.60	152	1.1
ZZ69183		0.035	0.19	0.69	59	0.25	3.04	64	<0.5
ZZ69184		0.028	0.22	0.62	51	0.18	3.17	102	<0.5
ZZ69185		0.038	0.29	0.55	69	0.24	2.48	76	<0.5
ZZ69186		0.009	0.28	0.52	51	0.10	4.83	147	<0.5
ZZ69187		0.024	0.38	0.56	53	0.19	8.24	122	<0.5
ZZ69188		<0.005	0.21	0.57	35	<0.05	22.1	721	0.7
ZZ69189		0.009	0.15	0.87	25	0.09	7.55	120	0.6
ZZ69190		0.014	0.19	1.45	50	0.16	9.95	183	0.6
ZZ69191		0.007	0.13	1.37	26	0.06	8.04	194	0.8
ZZ69192		0.032	0.13	0.48	63	0.20	2.70	87	<0.5
ZZ69193		0.013	0.09	1.02	25	0.08	10.15	39	0.7
ZZ69194		0.014	0.22	0.50	45	0.12	12.80	163	0.5
ZZ69195		0.014	0.31	0.70	29	0.09	4.36	190	1.0
ZZ69196		<0.005	0.41	0.58	19	<0.05	19.70	182	2.3
ZZ69197		0.011	0.13	0.76	55	0.15	3.62	82	<0.5
ZZ69198		0.039	0.14	0.99	47	0.34	5.89	96	1.0
ZZ69199		0.028	0.17	0.69	49	0.24	3.62	101	<0.5
ZZ69200		0.043	0.20	0.62	62	0.25	3.28	93	<0.5
ZZ69201		<0.005	0.16	0.33	16	<0.05	1.74	78	<0.5
ZZ69202		0.028	0.42	0.64	52	0.18	2.75	169	<0.5
ZZ69203		0.022	0.25	0.57	56	0.16	4.87	257	<0.5
ZZ69204		0.011	0.43	1.40	63	0.14	36.4	1350	1.3
ZZ69205		0.015	0.58	0.55	42	0.09	4.54	208	0.6
ZZ69206		0.021	0.32	0.49	45	0.14	2.17	74	<0.5
ZZ69207		0.019	0.32	0.87	52	0.17	8.13	226	0.8
ZZ69208		0.007	5.45	5.88	78	0.37	44.1	1290	2.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69209		0.26	0.008	1.48	0.58	15.7	<0.2	<10	300	0.17	0.42	0.03	0.26	27.4	2.2	17
ZZ69210		0.20	0.006	4.71	0.41	27.1	<0.2	10	1140	0.34	0.26	1.00	3.15	20.3	2.6	49
ZZ69211		0.22	0.005	3.46	0.56	32.5	<0.2	<10	970	0.49	0.18	1.44	5.36	17.65	6.2	34
ZZ69212		0.18	0.006	2.88	0.79	62.2	<0.2	<10	370	0.61	0.21	0.97	5.09	18.80	9.0	43
ZZ69213		0.23	0.003	0.34	0.59	14.1	<0.2	<10	60	0.16	0.25	0.03	0.21	19.30	3.2	16
ZZ69214		0.28	0.004	0.71	1.08	18.1	<0.2	<10	160	0.40	0.19	0.13	0.53	23.7	5.5	22
ZZ69215		0.17	0.003	0.40	0.53	17.8	<0.2	<10	100	0.13	0.21	0.06	0.22	20.2	3.5	17
ZZ69216		0.15	0.003	1.02	0.52	19.8	<0.2	<10	790	0.39	0.15	0.60	0.89	22.1	5.9	20
ZZ69217		0.22	0.004	0.54	0.95	9.8	<0.2	<10	260	0.33	0.21	0.08	0.30	19.75	3.3	21
ZZ69218		0.13	0.007	1.31	0.47	16.1	<0.2	<10	220	0.33	0.15	0.64	0.82	19.85	5.5	19
ZZ69219		0.21	0.003	0.40	0.43	15.2	<0.2	<10	120	0.15	0.22	0.04	0.24	17.35	5.6	13
ZZ69220		0.23	0.003	0.24	1.37	14.8	<0.2	<10	250	0.23	0.43	0.08	0.25	19.15	3.8	27
ZZ69221		0.23	0.007	0.97	1.01	15.9	<0.2	<10	720	0.51	0.19	0.86	0.99	21.4	7.3	25
ZZ69222		0.17	0.006	0.83	1.34	14.1	<0.2	<10	330	0.54	0.17	0.85	0.75	31.0	7.1	29
ZZ69223		0.25	0.004	1.66	0.19	7.7	<0.2	10	600	0.13	0.20	0.21	0.53	14.60	1.5	9
ZZ69224		0.18	0.003	2.16	0.69	13.2	<0.2	<10	580	0.52	0.14	2.15	0.88	15.05	4.5	20
ZZ69225		0.23	0.004	1.37	0.29	29.6	<0.2	<10	330	0.24	0.16	0.75	2.22	18.00	3.9	13
ZZ69241		0.28	0.010	1.05	1.13	13.9	<0.2	<10	700	0.55	0.17	0.57	2.02	44.9	14.8	23
ZZ69242		0.23	0.013	0.58	1.10	11.7	<0.2	<10	140	0.93	0.38	0.60	1.16	29.4	21.3	20
ZZ69243		0.22	0.007	1.74	0.59	22.6	<0.2	<10	1700	0.47	0.20	0.83	5.73	22.6	9.0	27
ZZ69244		0.28	0.004	0.80	0.67	11.2	<0.2	<10	1040	0.33	0.13	2.24	0.98	14.80	5.8	23
ZZ69245		0.12	0.004	1.20	0.92	16.6	<0.2	<10	1320	0.60	0.14	1.67	6.75	20.4	9.1	32

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69209		5.16	12.9	2.29	7.11	0.06	<0.02	0.07	0.030	0.13	17.1	1.8	0.04	46	4.90	0.02
ZZ69210		5.31	43.9	1.80	2.64	0.12	0.07	0.43	0.047	0.15	18.4	3.2	0.06	75	14.80	0.02
ZZ69211		2.25	42.0	2.18	1.93	0.07	0.05	0.27	0.029	0.06	13.2	5.1	0.23	205	13.55	0.03
ZZ69212		1.78	38.9	3.82	2.57	0.06	0.03	0.17	0.038	0.05	15.1	7.2	0.19	323	11.35	0.02
ZZ69213		2.82	13.1	2.35	4.62	<0.05	<0.02	0.03	0.017	0.04	10.1	3.2	0.08	111	2.35	<0.01
ZZ69214		4.90	17.0	2.55	3.44	<0.05	<0.02	0.06	0.025	0.06	11.7	10.8	0.24	196	2.50	0.01
ZZ69215		3.63	13.5	2.36	4.31	<0.05	<0.02	0.03	0.017	0.06	10.8	4.0	0.12	105	2.67	0.01
ZZ69216		2.14	33.2	1.98	1.51	<0.05	0.04	0.08	0.030	0.05	16.5	4.6	0.09	171	4.26	0.02
ZZ69217		2.54	13.1	1.87	4.12	<0.05	0.02	0.05	0.024	0.05	10.7	5.0	0.09	67	2.21	0.01
ZZ69218		2.67	29.0	2.00	1.18	0.05	0.03	0.09	0.028	0.06	13.7	3.7	0.09	146	3.70	0.01
ZZ69219		2.88	22.6	1.79	3.72	<0.05	<0.02	0.03	0.017	0.04	9.9	1.0	0.02	72	2.89	<0.01
ZZ69220		5.07	14.8	2.34	6.89	<0.05	<0.02	0.02	0.024	0.06	10.5	5.0	0.14	157	2.83	0.01
ZZ69221		1.79	24.2	2.41	2.93	0.05	0.02	0.12	0.025	0.06	12.7	8.0	0.25	308	2.48	0.02
ZZ69222		1.31	18.8	2.44	3.33	<0.05	0.02	0.09	0.024	0.06	16.5	10.7	0.29	281	2.70	0.02
ZZ69223		4.02	15.9	1.73	0.70	<0.05	0.02	0.12	0.024	0.19	9.2	2.3	0.03	30	2.51	0.03
ZZ69224		1.31	19.8	1.79	1.81	<0.05	0.03	0.09	0.023	0.04	10.3	4.2	0.37	225	3.72	0.02
ZZ69225		1.26	33.5	1.81	0.86	0.05	0.06	0.30	0.026	0.05	14.6	2.7	0.06	88	5.21	0.01
ZZ69241		1.45	64.8	3.64	3.02	0.07	0.03	0.22	0.030	0.09	22.3	18.3	0.32	731	5.50	0.02
ZZ69242		3.66	88.4	4.09	3.53	0.06	0.07	0.16	0.037	0.12	15.6	26.1	0.41	835	5.19	0.01
ZZ69243		1.41	47.9	2.65	2.02	0.07	0.06	0.20	0.032	0.10	14.6	7.4	0.22	336	8.54	0.04
ZZ69244		0.51	17.9	1.65	2.02	<0.05	0.03	0.10	0.019	0.04	9.0	6.2	0.20	599	2.44	0.03
ZZ69245		0.69	50.3	1.90	3.10	0.05	0.04	0.18	0.021	0.05	13.6	9.0	0.24	293	5.43	0.04



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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69209		0.59	12.0	630	24.9	13.6	0.002	0.22	2.41	1.3	3.4	1.1	31.3	<0.01	0.14	0.6
ZZ69210		0.10	72.2	1810	39.3	13.9	0.009	0.27	4.38	3.4	12.2	0.8	96.0	<0.01	0.18	1.4
ZZ69211		0.22	104.0	1490	77.8	5.6	0.003	0.09	6.99	2.4	5.6	0.5	42.6	<0.01	0.06	0.6
ZZ69212		0.25	94.8	1000	130.5	8.1	0.002	0.07	9.32	2.0	7.6	0.6	36.6	<0.01	0.14	0.4
ZZ69213		0.88	18.0	360	14.5	6.4	0.002	0.03	1.76	1.1	0.8	0.6	12.1	<0.01	0.05	0.6
ZZ69214		0.67	24.4	760	24.1	7.9	0.001	0.08	2.81	1.7	1.3	0.4	31.2	<0.01	0.05	0.9
ZZ69215		0.80	17.4	550	15.1	7.9	0.002	0.09	1.81	1.2	1.1	0.6	29.8	<0.01	0.06	0.8
ZZ69216		0.20	71.1	880	16.9	6.6	0.004	0.06	2.14	2.3	2.8	0.5	22.7	<0.01	0.05	0.9
ZZ69217		0.48	16.0	980	9.8	6.7	0.002	0.09	0.97	1.4	1.4	0.6	47.4	<0.01	0.07	0.5
ZZ69218		0.14	63.2	890	11.2	7.6	0.002	0.11	1.83	2.0	2.8	0.3	50.9	<0.01	0.06	0.7
ZZ69219		0.39	44.7	590	13.9	6.3	0.002	0.05	1.44	0.6	0.8	0.6	23.4	<0.01	0.05	<0.2
ZZ69220		0.69	15.6	1120	29.4	10.6	0.001	0.07	1.61	0.9	0.9	0.9	28.7	<0.01	0.09	0.3
ZZ69221		0.42	32.5	1420	11.7	7.3	0.001	0.13	1.37	2.3	2.0	0.5	49.5	<0.01	0.07	0.5
ZZ69222		0.47	29.8	1360	11.7	7.2	0.001	0.10	1.15	1.6	1.4	0.5	29.2	<0.01	0.06	0.5
ZZ69223		0.05	19.2	530	12.0	12.4	0.004	0.44	1.52	1.5	1.9	0.4	58.3	<0.01	0.05	1.7
ZZ69224		0.28	35.9	1400	13.1	5.2	0.001	0.14	1.65	1.0	2.2	0.4	92.0	<0.01	0.05	0.3
ZZ69225		0.08	62.3	820	54.6	4.5	0.006	0.07	3.26	1.9	4.2	0.3	43.5	<0.01	0.04	0.8
ZZ69241		0.16	65.2	2140	17.6	8.2	0.002	0.03	2.04	4.1	1.9	0.4	41.3	<0.01	0.07	2.5
ZZ69242		0.13	52.5	1640	31.7	8.0	0.002	0.05	1.56	5.2	1.5	0.4	36.7	<0.01	0.05	5.0
ZZ69243		0.14	71.7	2190	70.7	8.8	0.006	0.10	3.73	2.7	4.4	0.5	70.0	<0.01	0.07	1.8
ZZ69244		0.31	30.3	1080	17.4	5.7	0.002	0.10	1.67	1.2	3.1	0.4	51.9	<0.01	0.06	0.4
ZZ69245		0.43	76.6	1410	20.2	7.5	0.009	0.07	3.81	2.4	4.7	0.5	70.8	<0.01	0.08	0.9



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**CERTIFICATE OF ANALYSIS WH12149081**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69209		0.036	0.83	0.70	83	0.22	3.48	63	<0.5
ZZ69210		0.005	1.29	4.17	104	0.31	23.0	420	2.3
ZZ69211		0.009	2.42	3.01	61	0.29	24.4	870	1.6
ZZ69212		0.009	0.61	3.11	53	0.15	17.90	1790	1.0
ZZ69213		0.037	0.46	0.49	56	0.23	2.38	107	<0.5
ZZ69214		0.024	0.50	0.88	51	0.27	6.36	146	<0.5
ZZ69215		0.033	0.41	0.51	50	0.20	2.91	86	<0.5
ZZ69216		0.007	0.46	1.23	36	0.08	14.65	273	1.3
ZZ69217		0.012	0.19	1.30	45	0.17	5.83	60	<0.5
ZZ69218		0.005	0.33	1.63	27	0.07	19.40	223	1.0
ZZ69219		0.013	0.37	0.60	55	0.20	6.88	172	<0.5
ZZ69220		0.018	0.54	0.63	76	0.25	2.90	79	<0.5
ZZ69221		0.014	0.26	2.99	49	0.20	27.4	164	0.8
ZZ69222		0.018	0.20	2.14	46	0.16	18.10	109	0.6
ZZ69223		<0.005	0.23	0.81	32	0.07	9.74	80	1.0
ZZ69224		0.009	0.21	1.54	41	0.16	14.50	145	0.9
ZZ69225		<0.005	0.80	1.79	20	0.17	19.00	569	1.7
ZZ69241		0.005	0.26	2.00	54	0.07	18.30	240	1.4
ZZ69242		<0.005	0.21	1.61	28	<0.05	14.90	191	4.2
ZZ69243		0.005	0.54	4.04	73	0.16	21.7	770	2.0
ZZ69244		0.008	0.16	2.92	45	0.10	11.95	175	1.0
ZZ69245		0.010	0.46	4.19	300	0.21	21.6	502	1.5



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**CERTIFICATE OF ANALYSIS WH12149081**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12149082**

Project: ATAC- Regional Area F (Crag N)  
 P.O. No.: Soil 9  
 This report is for 192 Soil samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69247		0.17	0.005	2.88	0.62	15.1	<0.2	10	1410	0.67	0.11	5.63	10.70	12.20	6.0	39
ZZ69248		0.30	0.005	1.75	1.17	24.1	<0.2	<10	3300	0.72	0.18	1.69	4.86	23.4	7.7	38
ZZ69249		0.31	0.003	0.78	1.25	20.8	<0.2	<10	1040	0.56	0.22	0.39	2.77	32.6	8.0	35
ZZ69250		0.26	0.004	1.35	1.06	16.5	<0.2	<10	3500	0.44	0.17	0.47	3.47	21.0	6.2	33
ZZ69251		0.18	0.003	0.51	0.44	14.1	<0.2	<10	2080	0.17	0.12	0.15	0.67	18.95	1.9	19
ZZ69252		0.21	0.006	2.94	0.69	18.6	<0.2	<10	4070	0.32	0.22	1.44	4.72	19.70	4.8	17
ZZ69253		0.19	0.008	2.40	1.74	87.9	<0.2	10	1870	1.31	0.16	1.18	47.0	23.6	25.1	58
ZZ69254		0.22	0.008	1.45	0.57	24.0	<0.2	<10	2410	0.27	0.22	0.82	5.30	24.6	4.0	28
ZZ69255		0.17	0.004	1.10	0.85	26.5	<0.2	10	7220	0.41	0.20	0.85	1.66	23.5	5.7	28
ZZ69256		0.14	0.005	1.26	0.61	12.6	<0.2	<10	940	0.28	0.10	3.69	2.25	12.00	4.7	18
ZZ69257		0.20	0.003	4.50	1.02	20.2	<0.2	<10	770	0.40	0.21	1.52	1.01	21.9	3.9	46
ZZ69258		0.11	0.008	1.22	0.35	10.1	<0.2	<10	980	0.27	0.11	2.01	0.61	13.95	2.2	15
ZZ69259		0.22	0.003	1.86	0.24	10.6	<0.2	<10	660	0.14	0.13	0.89	0.48	21.0	2.1	11
ZZ69260		0.20	0.006	0.59	1.03	18.3	<0.2	<10	1060	0.68	0.16	1.94	2.56	20.1	9.7	25
ZZ69261		0.18	0.001	0.63	0.19	12.2	<0.2	<10	490	0.19	0.09	0.74	0.50	18.90	3.5	7
ZZ69262		0.22	0.003	0.91	0.57	12.9	<0.2	<10	690	0.50	0.12	3.21	2.66	13.75	5.1	17
ZZ69263		0.18	0.002	1.32	0.96	16.0	<0.2	<10	540	0.69	0.14	0.57	1.17	23.7	6.8	27
ZZ69264		0.12	0.002	0.76	0.51	21.5	<0.2	<10	580	0.67	0.11	5.30	4.07	12.30	3.7	18
ZZ69265		0.16	0.002	0.26	1.31	22.1	<0.2	<10	440	0.74	0.21	0.71	3.92	30.5	11.2	31
ZZ69266		0.23	0.003	0.20	1.53	17.1	<0.2	<10	470	0.84	0.22	0.16	1.91	34.4	10.2	28
ZZ69267		0.21	0.001	0.32	0.21	9.8	<0.2	<10	220	0.13	0.12	0.01	0.32	24.9	3.9	7
ZZ69268		0.23	0.001	0.18	0.28	23.9	<0.2	<10	730	0.24	0.12	0.13	1.04	19.60	5.6	11
ZZ69269		0.15	0.002	0.48	0.80	18.4	<0.2	<10	210	0.50	0.13	3.83	1.97	18.65	4.5	23
ZZ69270		0.18	0.007	0.20	0.98	16.5	<0.2	<10	180	0.21	0.27	0.05	0.17	31.0	3.3	21
ZZ69271		0.23	0.003	0.48	1.57	25.1	<0.2	<10	290	0.66	0.27	0.03	0.44	34.0	13.6	26
ZZ69272		0.20	0.006	0.34	1.62	28.7	<0.2	<10	380	0.78	0.24	0.08	0.41	34.9	7.7	30
ZZ69273		0.27	0.005	0.34	1.57	38.1	<0.2	<10	590	0.88	0.26	0.05	0.50	39.8	8.0	28
ZZ69274		0.24	0.003	0.33	1.04	31.6	<0.2	<10	300	0.35	0.29	0.01	0.28	40.9	6.3	16
ZZ69275		0.18	0.005	0.78	1.32	42.9	<0.2	<10	310	0.35	0.31	0.03	0.31	32.0	5.1	26
ZZ69276		0.21	0.002	0.15	2.50	21.0	<0.2	<10	1240	0.75	0.08	0.07	0.80	35.7	34.7	64
ZZ69277		0.19	0.017	1.91	0.93	89.2	<0.2	<10	340	2.00	0.34	0.01	0.77	67.0	23.2	13
ZZ69278		0.20	0.004	0.42	0.72	12.9	<0.2	<10	550	0.59	0.56	0.01	0.29	32.0	0.8	11
ZZ69279		0.16	0.013	0.99	2.51	44.5	<0.2	<10	550	0.95	0.30	0.04	0.73	33.3	9.8	36
ZZ69280		0.16	0.007	1.06	0.70	15.4	<0.2	<10	610	0.45	0.41	0.04	0.12	28.6	2.8	15
ZZ69281		0.21	0.010	0.97	2.14	70.5	<0.2	<10	260	0.57	0.26	0.03	0.45	30.5	6.9	37
ZZ69282		0.22	0.007	0.35	1.35	28.4	<0.2	<10	220	0.34	0.31	0.04	0.60	36.6	5.6	22
ZZ69283		0.16	0.009	1.07	0.78	20.1	<0.2	<10	130	0.18	0.25	0.11	0.22	28.4	2.8	16
ZZ69284		0.16	0.004	0.31	1.66	23.9	<0.2	<10	560	0.48	0.35	0.01	0.24	40.7	3.8	32
ZZ69285		0.11	0.009	0.26	0.81	6.0	<0.2	<10	620	0.31	0.35	0.03	0.18	39.0	1.1	20
ZZ69286		0.19	0.008	0.57	1.64	27.8	<0.2	<10	290	0.45	0.28	0.09	0.23	29.3	5.7	33



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ69247		0.48	93.1	1.36	2.27	0.06	0.07	0.56	0.026	0.05	9.1	4.5	0.21	264	2.01	0.05
ZZ69248		1.05	47.2	2.46	3.18	0.05	0.05	0.24	0.030	0.07	14.7	8.9	0.30	294	6.20	0.08
ZZ69249		1.28	36.9	2.87	3.82	0.05	0.03	0.12	0.030	0.08	17.7	9.3	0.26	313	7.41	0.03
ZZ69250		1.07	30.9	2.25	2.90	0.05	0.04	0.14	0.026	0.06	12.2	8.2	0.23	230	3.71	0.08
ZZ69251		0.91	16.5	1.38	1.40	<0.05	0.02	0.06	0.018	0.06	10.7	1.8	0.04	29	11.45	0.05
ZZ69252		1.72	58.1	1.79	1.57	<0.05	0.09	0.22	0.025	0.07	9.6	2.7	0.11	144	5.69	0.09
ZZ69253		14.15	223	11.65	2.23	0.08	0.09	0.21	0.027	0.13	13.1	4.4	0.13	506	44.2	0.05
ZZ69254		2.91	30.4	1.76	2.68	0.06	0.04	0.24	0.043	0.08	13.3	5.0	0.09	128	12.60	0.06
ZZ69255		1.64	27.0	2.09	2.51	<0.05	0.04	0.16	0.031	0.07	12.8	6.0	0.18	180	4.58	0.15
ZZ69256		0.90	20.2	1.31	1.56	<0.05	0.04	0.13	0.017	0.04	7.8	4.9	0.16	286	0.93	0.03
ZZ69257		1.73	21.8	2.59	2.76	0.05	0.04	0.14	0.039	0.10	18.4	5.3	0.09	79	6.37	0.03
ZZ69258		1.02	17.2	1.31	0.90	<0.05	0.06	0.11	0.018	0.05	8.6	2.1	0.20	81	0.81	0.03
ZZ69259		1.37	11.5	1.47	0.74	<0.05	0.04	0.08	0.019	0.05	12.8	1.7	0.12	58	1.90	0.02
ZZ69260		1.66	22.4	2.05	3.05	0.05	0.04	0.12	0.029	0.04	14.3	9.6	0.51	463	0.96	0.02
ZZ69261		1.60	14.9	1.44	0.54	<0.05	0.03	0.08	0.021	0.04	10.6	2.1	0.08	125	1.99	0.01
ZZ69262		2.14	31.7	1.88	1.47	<0.05	0.06	0.12	0.017	0.04	10.2	6.9	0.85	172	0.91	0.01
ZZ69263		2.59	18.2	2.13	1.82	<0.05	0.05	0.11	0.033	0.05	14.3	6.8	0.18	175	2.62	0.01
ZZ69264		2.61	17.9	1.32	1.17	<0.05	0.05	0.11	0.023	0.06	8.3	3.2	2.55	180	1.41	0.02
ZZ69265		2.38	16.1	3.00	3.39	<0.05	0.03	0.07	0.035	0.04	12.8	8.7	0.33	1020	3.86	0.01
ZZ69266		3.05	11.7	3.15	4.47	0.05	0.03	0.07	0.034	0.06	13.5	15.8	0.36	457	1.79	0.01
ZZ69267		1.84	19.9	1.80	0.67	0.05	0.02	0.04	0.021	0.04	14.6	2.3	0.03	55	1.56	<0.01
ZZ69268		1.64	18.2	2.36	1.19	<0.05	0.03	0.03	0.026	0.05	11.8	1.9	0.05	78	4.41	0.01
ZZ69269		3.49	13.1	2.10	2.27	0.05	0.04	0.06	0.028	0.06	13.7	6.5	2.03	168	1.55	0.01
ZZ69270		0.94	26.0	2.28	7.16	0.05	<0.02	0.04	0.019	0.10	18.2	3.5	0.12	123	3.65	0.01
ZZ69271		1.09	31.7	7.76	5.85	0.06	0.03	0.10	0.030	0.07	18.8	7.0	0.15	1840	12.50	0.01
ZZ69272		1.07	34.2	3.30	4.53	0.06	0.04	0.10	0.033	0.08	19.9	12.1	0.29	355	6.01	0.01
ZZ69273		1.23	40.0	3.53	4.82	0.07	0.03	0.10	0.035	0.10	23.3	11.9	0.25	333	7.27	0.01
ZZ69274		1.14	34.1	3.08	3.93	0.05	<0.02	0.04	0.029	0.11	21.2	4.1	0.11	170	5.83	0.01
ZZ69275		1.09	25.5	3.91	6.51	0.06	<0.02	0.08	0.034	0.10	18.6	5.8	0.17	146	5.76	0.01
ZZ69276		1.13	100.5	7.54	6.31	0.05	0.03	0.05	0.053	0.11	19.8	6.3	0.24	1560	2.74	0.01
ZZ69277		0.42	53.0	6.96	2.53	0.11	0.04	1.33	0.046	0.06	36.5	2.4	0.07	2160	102.0	0.01
ZZ69278		0.96	10.0	2.25	3.04	0.05	<0.02	0.14	0.042	0.17	19.2	1.8	0.04	47	24.9	0.01
ZZ69279		2.33	47.4	4.16	5.58	0.05	0.14	0.31	0.049	0.14	18.2	23.2	0.45	426	5.43	0.01
ZZ69280		1.83	26.9	2.46	3.61	<0.05	<0.02	0.08	0.030	0.19	22.3	4.1	0.07	102	21.7	0.01
ZZ69281		2.06	33.2	4.21	6.69	<0.05	0.06	0.05	0.040	0.10	17.7	18.3	0.35	244	3.89	0.01
ZZ69282		2.59	84.7	2.95	8.50	0.05	<0.02	0.04	0.026	0.12	21.6	6.9	0.22	160	2.84	0.01
ZZ69283		0.97	47.0	1.87	6.84	<0.05	<0.02	0.04	0.015	0.05	15.6	2.0	0.07	55	3.53	0.01
ZZ69284		2.79	45.1	4.75	8.15	0.06	0.02	0.03	0.043	0.21	22.5	5.3	0.32	99	3.71	0.03
ZZ69285		1.71	22.2	1.50	4.76	0.06	<0.02	0.11	0.034	0.14	25.7	1.9	0.05	16	2.56	0.02
ZZ69286		1.44	19.1	4.83	7.01	0.05	0.02	0.07	0.037	0.07	16.4	14.1	0.28	332	3.71	0.01



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**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ69247		0.11	128.0	2540	8.6	5.0	0.008	0.22	5.72	0.9	8.1	0.6	141.0	<0.01	0.06	0.3
ZZ69248		0.31	72.1	1690	17.8	7.0	0.002	0.12	3.84	3.1	3.1	0.5	78.1	<0.01	0.08	1.4
ZZ69249		0.36	64.8	1360	23.2	8.5	0.002	0.10	3.36	3.0	2.9	0.6	78.4	<0.01	0.09	2.6
ZZ69250		0.21	66.8	1420	16.9	7.3	0.002	0.12	2.00	2.2	2.4	0.5	52.0	<0.01	0.07	0.7
ZZ69251		<0.05	23.2	580	16.1	5.2	0.005	0.13	3.37	1.1	3.0	0.5	53.9	<0.01	0.08	1.4
ZZ69252		<0.05	113.0	1190	13.6	6.7	0.007	0.18	4.55	1.2	5.2	0.6	88.5	<0.01	0.09	0.9
ZZ69253		0.07	562	1700	34.1	14.0	0.013	0.24	14.35	5.7	7.2	0.4	117.0	<0.01	0.14	2.9
ZZ69254		0.23	65.2	700	14.9	11.4	0.005	0.18	7.66	2.0	4.8	0.9	130.0	<0.01	0.11	1.9
ZZ69255		0.26	32.8	800	14.7	6.4	0.004	0.09	2.74	2.9	2.1	0.5	93.1	<0.01	0.10	1.9
ZZ69256		0.16	25.2	1010	11.6	4.3	0.001	0.17	1.69	1.2	2.2	0.3	69.1	<0.01	0.05	0.3
ZZ69257		0.17	47.9	790	13.7	7.7	0.001	0.19	2.64	2.8	4.3	0.7	88.0	<0.01	0.15	1.3
ZZ69258		<0.05	19.0	730	11.7	4.8	0.001	0.12	1.12	1.3	1.6	0.2	39.2	<0.01	0.05	0.7
ZZ69259		<0.05	17.3	430	10.4	4.4	0.001	0.06	1.48	1.1	1.2	0.2	22.4	<0.01	0.08	1.4
ZZ69260		0.70	34.0	1060	26.3	8.2	0.001	0.10	1.80	2.4	1.8	0.4	22.5	<0.01	0.07	0.8
ZZ69261		0.07	28.5	330	16.1	5.9	0.001	0.06	1.50	1.8	1.4	0.2	10.8	<0.01	0.05	0.8
ZZ69262		0.26	30.2	700	28.2	6.5	0.005	0.10	1.68	1.7	2.8	0.3	31.6	<0.01	0.03	0.5
ZZ69263		0.32	44.4	700	35.0	9.1	0.001	0.04	2.11	3.1	1.9	0.4	17.5	<0.01	0.05	1.7
ZZ69264		0.12	27.3	800	27.0	7.8	0.002	0.13	3.05	1.7	2.2	0.3	24.4	<0.01	0.08	0.5
ZZ69265		0.44	30.8	1100	66.6	8.9	0.001	0.07	3.29	2.8	1.3	0.5	11.4	<0.01	0.22	0.7
ZZ69266		0.95	26.4	580	36.6	13.9	0.001	0.03	1.50	2.9	0.9	0.6	9.9	<0.01	0.06	2.2
ZZ69267		0.09	32.7	200	11.5	5.3	0.002	0.01	1.01	1.9	0.6	0.2	1.5	<0.01	0.07	2.2
ZZ69268		0.15	40.0	530	36.2	7.1	0.002	0.04	3.66	1.6	1.3	0.4	5.1	<0.01	0.04	0.8
ZZ69269		0.38	24.7	830	25.6	7.8	0.001	0.12	2.25	1.9	1.5	0.4	18.8	<0.01	0.07	0.8
ZZ69270		0.77	18.5	560	27.1	8.0	0.001	0.05	1.48	1.1	1.1	0.9	19.0	<0.01	0.07	0.4
ZZ69271		0.75	57.7	1030	30.9	14.7	0.001	0.04	2.66	3.0	1.8	0.8	15.3	<0.01	0.13	2.5
ZZ69272		0.61	39.6	1140	61.7	11.7	0.002	0.07	2.30	2.8	2.4	0.6	34.2	<0.01	0.09	2.8
ZZ69273		0.66	44.6	920	87.4	16.0	0.001	0.10	3.25	3.5	2.5	0.6	43.4	<0.01	0.12	4.9
ZZ69274		0.42	30.7	740	62.9	19.4	0.001	0.09	2.41	2.3	1.8	0.5	29.3	<0.01	0.10	3.0
ZZ69275		1.14	29.7	950	107.0	15.5	0.002	0.09	3.28	2.5	2.3	0.8	40.3	<0.01	0.12	2.6
ZZ69276		0.15	109.5	930	8.3	14.8	0.001	0.03	2.21	13.1	0.7	0.4	13.6	<0.01	0.02	2.2
ZZ69277		0.07	98.4	410	54.9	9.1	0.002	0.03	14.45	7.9	4.1	0.4	5.5	<0.01	0.33	2.8
ZZ69278		0.36	3.0	500	27.4	14.2	0.001	0.49	4.06	1.2	1.7	0.7	77.2	<0.01	0.14	1.5
ZZ69279		0.80	40.6	970	105.5	19.1	0.002	0.05	3.05	4.4	3.1	0.7	29.1	<0.01	0.09	5.8
ZZ69280		0.38	33.7	1540	38.4	17.1	0.003	0.34	2.04	1.6	4.6	0.6	103.0	<0.01	0.17	2.3
ZZ69281		0.96	29.4	800	127.0	16.2	0.001	0.07	3.22	3.4	1.9	0.8	29.9	<0.01	0.15	4.2
ZZ69282		0.83	28.6	1290	42.1	19.3	0.001	0.07	1.85	2.5	1.5	0.9	37.2	<0.01	0.09	1.8
ZZ69283		0.41	15.9	1180	21.4	6.2	<0.001	0.05	1.91	0.7	1.3	0.9	31.0	<0.01	0.07	0.2
ZZ69284		0.67	19.8	1020	37.2	24.8	0.001	0.45	2.15	4.5	1.6	0.9	57.3	<0.01	0.25	4.4
ZZ69285		0.05	10.0	1240	25.3	10.3	0.002	0.29	0.87	0.1	1.6	0.7	58.4	<0.01	0.15	<0.2
ZZ69286		1.66	15.4	3970	20.5	12.8	0.001	0.05	1.49	2.4	1.3	0.8	21.9	<0.01	0.11	2.7

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69247		0.007	0.27	6.35	264	0.16	22.1	601	2.3
ZZ69248		0.015	0.55	3.05	156	0.27	21.0	431	1.6
ZZ69249		0.018	0.69	2.41	133	0.40	13.45	376	0.9
ZZ69250		0.015	0.55	2.00	87	0.40	18.30	441	1.0
ZZ69251		0.005	0.85	1.40	86	0.18	5.20	228	0.5
ZZ69252		<0.005	0.94	5.33	39	0.14	8.14	431	2.2
ZZ69253		0.007	5.60	15.05	271	0.25	55.4	3770	3.2
ZZ69254		0.013	3.57	2.45	99	0.29	8.49	281	1.3
ZZ69255		0.012	0.86	2.49	92	0.12	12.80	201	1.5
ZZ69256		0.009	0.26	2.49	39	0.08	13.75	189	1.1
ZZ69257		0.008	0.55	2.34	88	0.15	18.45	233	1.2
ZZ69258		<0.005	0.35	0.67	22	<0.05	10.10	163	1.5
ZZ69259		<0.005	0.19	0.36	20	<0.05	5.73	150	1.4
ZZ69260		0.015	0.28	1.69	39	0.15	21.2	464	1.5
ZZ69261		<0.005	0.30	0.55	9	<0.05	9.88	259	1.2
ZZ69262		0.005	0.19	2.09	26	0.07	16.90	244	1.7
ZZ69263		0.006	0.64	0.92	41	0.08	16.20	320	1.5
ZZ69264		<0.005	0.45	1.02	25	<0.05	14.60	463	1.3
ZZ69265		0.013	0.28	1.00	58	0.15	19.65	911	0.8
ZZ69266		0.019	0.26	0.93	48	0.17	7.72	421	0.7
ZZ69267		<0.005	0.24	0.38	10	<0.05	6.75	141	0.9
ZZ69268		<0.005	0.39	0.44	21	<0.05	4.78	374	0.6
ZZ69269		0.012	0.34	0.86	40	0.07	17.70	285	1.1
ZZ69270		0.029	0.15	0.72	89	0.19	2.46	89	<0.5
ZZ69271		0.018	0.24	1.59	86	0.19	6.56	202	0.7
ZZ69272		0.015	0.22	2.07	80	0.15	7.03	204	0.9
ZZ69273		0.015	0.28	2.05	79	0.15	7.46	220	1.5
ZZ69274		0.009	0.24	0.97	61	0.08	3.48	161	0.6
ZZ69275		0.020	0.25	1.08	95	0.20	3.44	215	0.6
ZZ69276		0.005	0.12	1.14	76	<0.05	7.28	424	0.7
ZZ69277		<0.005	1.10	14.55	40	0.08	38.8	253	1.1
ZZ69278		0.015	0.86	2.77	39	0.08	5.13	17	<0.5
ZZ69279		0.011	0.31	3.86	75	0.18	6.23	274	4.2
ZZ69280		0.013	0.52	2.53	81	0.10	4.22	200	0.6
ZZ69281		0.016	0.24	1.01	98	0.16	3.07	256	2.6
ZZ69282		0.027	0.26	1.14	84	0.15	3.88	258	<0.5
ZZ69283		0.020	0.16	1.06	81	0.17	3.59	86	<0.5
ZZ69284		0.053	0.26	0.93	102	0.10	3.16	145	1.0
ZZ69285		<0.005	0.12	1.97	36	0.06	6.46	43	<0.5
ZZ69286		0.031	0.17	0.92	101	0.34	3.46	95	0.7



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69287		0.20	0.007	0.26	1.76	33.0	<0.2	<10	260	0.57	0.22	0.10	0.45	30.6	7.6	31
ZZ69288		0.22	0.015	1.13	0.73	49.4	<0.2	<10	960	0.86	0.33	0.16	3.40	45.4	10.3	14
ZZ69289		0.23	0.010	1.90	0.82	28.4	<0.2	<10	130	0.43	0.22	0.16	0.28	75.1	1.1	19
ZZ69290		0.18	0.007	0.19	0.75	7.6	<0.2	<10	420	0.31	0.22	0.94	0.37	25.8	4.4	7
ZZ69291		0.15	0.018	1.23	1.28	14.7	<0.2	<10	600	0.65	0.24	1.06	1.44	37.4	16.5	18
ZZ69292		0.23	0.014	4.91	0.48	117.5	<0.2	<10	360	0.70	0.20	0.73	3.13	31.7	21.2	8
ZZ69293		0.18	0.014	1.45	0.67	12.7	<0.2	<10	1640	0.41	0.23	0.39	2.02	40.5	1.5	16
ZZ69294		0.26	0.016	1.64	0.77	50.7	<0.2	<10	590	0.62	0.22	1.06	4.14	38.9	12.9	14
ZZ69295		0.18	0.010	0.43	0.87	40.8	<0.2	<10	300	0.43	0.20	0.13	1.28	32.8	7.4	15
ZZ69296		0.24	0.012	0.33	1.13	12.0	<0.2	<10	690	0.58	0.27	0.38	1.07	21.1	17.9	19
ZZ69297		0.27	0.006	0.90	0.56	55.0	<0.2	<10	660	0.56	0.19	0.61	1.53	31.0	10.3	19
ZZ69298		0.21	0.012	8.85	0.90	118.0	<0.2	10	840	1.74	0.26	1.94	31.2	50.5	38.5	84
ZZ69299		0.23	0.008	1.07	0.60	67.0	<0.2	<10	860	0.68	0.17	0.90	2.56	34.6	10.8	18
ZZ69300		0.22	0.008	1.89	1.32	67.8	<0.2	<10	720	0.91	0.22	0.34	2.62	44.0	9.8	35
ZZ69301		0.08	NSS	2.96	0.57	10.8	<0.2	<10	790	0.27	0.18	0.23	1.45	14.05	1.1	19
ZZ69302		0.20	0.003	0.19	1.68	16.6	<0.2	<10	890	1.01	0.23	3.20	2.65	22.5	10.3	26
ZZ69303		0.20	0.003	0.26	0.97	13.9	<0.2	<10	470	0.89	0.13	8.18	2.10	14.35	6.5	15
ZZ69304		0.12	0.005	0.32	1.39	32.2	<0.2	<10	500	0.91	0.16	1.29	1.31	24.3	6.4	23
ZZ69305		0.20	0.002	0.23	1.95	23.3	<0.2	<10	240	1.45	0.13	7.78	4.61	32.5	13.1	24
ZZ69306		0.20	0.004	0.57	1.14	86.4	<0.2	10	1200	1.61	0.15	2.87	15.80	16.00	17.3	23
ZZ69307		0.26	0.002	0.11	0.32	13	<0.2	<10	1610	0.66	0.04	15.50	0.69	7.33	3.6	7
ZZ69308		0.24	0.002	0.13	1.38	11.6	<0.2	<10	250	0.52	0.23	1.34	1.67	21.8	6.5	21
ZZ69309		0.19	0.003	0.17	1.25	10.0	<0.2	<10	360	0.41	0.20	1.78	4.26	16.50	5.8	18
ZZ69310		0.19	0.002	0.14	1.80	52.1	<0.2	<10	230	0.57	0.25	0.09	1.48	27.1	9.1	31
ZZ69311		0.28	0.005	0.82	1.26	38.2	<0.2	<10	430	0.61	0.21	0.10	0.76	29.4	5.7	32
ZZ69312		0.19	0.003	6.04	1.23	33.1	<0.2	<10	190	0.28	0.29	0.07	0.47	25.3	3.9	35
ZZ69313		0.19	0.004	1.12	0.63	15.8	<0.2	<10	130	0.09	0.31	0.02	0.16	25.2	1.3	14
ZZ69314		0.23	0.004	12.75	2.27	34.0	<0.2	<10	130	0.37	0.25	0.08	0.44	22.4	5.9	54
ZZ69315		0.22	0.005	3.61	1.51	60.5	<0.2	<10	310	0.59	0.24	0.16	1.05	27.5	6.3	70
ZZ69316		0.19	0.007	1.47	0.69	191.0	<0.2	<10	1110	1.39	0.24	0.52	13.65	51.3	10.8	25
ZZ69317		0.19	0.008	0.16	0.52	103.0	<0.2	<10	920	0.57	0.25	0.18	0.60	26.1	8.1	6
ZZ69318		0.21	0.007	2.29	0.84	70.5	<0.2	<10	610	0.96	0.19	1.18	5.06	55.8	16.5	20
ZZ69319		0.27	0.010	1.56	1.02	41.5	<0.2	<10	1440	1.16	0.21	0.72	3.46	41.5	12.5	22
ZZ69320		0.21	0.005	0.96	1.15	40.1	<0.2	<10	1650	0.77	0.29	0.06	2.49	44.9	14.3	22
ZZ66091		0.18	0.014	1.17	0.42	23.1	<0.2	10	520	0.31	0.08	5.10	15.05	8.19	42.1	17
ZZ66092		0.24	0.004	1.62	0.60	83.3	<0.2	10	430	0.46	0.12	4.41	19.25	13.05	15.8	24
ZZ66093		0.09	0.004	0.58	1.05	4.4	<0.2	10	220	0.40	0.18	1.75	0.47	2.96	5.1	44
ZZ66094		0.05	0.004	0.53	0.96	4.1	<0.2	10	240	0.39	0.17	1.80	0.41	2.66	4.7	40
ZZ66095		0.10	0.003	0.59	1.10	8.2	<0.2	<10	230	0.41	0.19	1.04	0.49	4.77	3.8	42
ZZ66096		0.12	0.011	0.80	0.45	5.9	<0.2	10	340	0.27	0.09	3.05	1.13	8.06	3.3	16

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ69287		1.45	38.2	3.71	4.89	0.05	0.06	0.06	0.041	0.09	17.7	21.2	0.33	272	5.05	0.01
ZZ69288		0.92	95.4	4.04	2.02	0.08	0.02	0.29	0.055	0.15	27.5	4.9	0.10	408	6.58	0.01
ZZ69289		1.14	38.3	3.12	3.94	0.09	0.03	0.42	0.065	0.36	45.9	5.0	0.11	33	8.75	0.03
ZZ69290		0.73	25.9	2.51	2.47	0.05	0.03	0.07	0.018	0.15	15.5	11.9	0.24	162	0.91	0.01
ZZ69291		4.72	102.0	2.66	3.68	0.07	0.08	0.23	0.035	0.22	20.8	18.7	0.56	542	4.06	0.01
ZZ69292		4.37	72.3	3.51	1.67	0.05	0.05	1.12	0.034	0.10	16.6	4.5	0.18	1840	4.43	0.01
ZZ69293		0.87	35.6	1.19	2.96	0.06	0.02	0.46	0.030	0.10	28.3	3.9	0.13	57	3.67	0.01
ZZ69294		2.35	86.9	2.74	2.09	0.07	0.08	0.66	0.037	0.13	21.8	7.2	0.26	974	4.03	0.01
ZZ69295		1.59	39.3	2.42	4.02	<0.05	0.04	0.27	0.026	0.13	19.5	5.4	0.13	1400	6.62	0.01
ZZ69296		2.49	50.6	6.25	2.71	0.11	0.06	0.12	0.045	0.10	7.7	21.2	0.13	979	1.54	0.09
ZZ69297		0.86	29.5	2.46	2.27	0.09	0.07	0.50	0.039	0.08	19.4	3.9	0.11	544	9.15	0.01
ZZ69298		2.79	303	4.39	3.24	0.36	0.28	1.23	0.039	0.23	36.8	6.4	0.25	747	64.5	0.01
ZZ69299		0.77	63.8	2.94	1.96	0.11	0.10	0.73	0.037	0.10	20.3	5.0	0.16	375	10.35	0.01
ZZ69300		1.20	71.2	3.05	3.77	0.16	0.11	0.56	0.034	0.11	26.1	11.5	0.25	590	28.0	0.01
ZZ69301		0.78	23.0	1.02	2.60	0.10	0.02	0.53	0.021	0.07	10.2	1.6	0.05	36	20.3	0.01
ZZ69302		1.09	8.3	2.70	5.28	0.06	0.05	0.06	0.028	0.05	10.8	13.0	1.57	299	1.98	0.01
ZZ69303		0.52	13.6	1.55	2.69	<0.05	0.04	0.10	0.019	0.04	7.0	10.6	3.99	405	1.29	0.02
ZZ69304		0.91	15.6	2.72	3.91	0.07	0.07	0.13	0.030	0.06	13.5	10.7	0.44	468	3.91	0.01
ZZ69305		0.94	13.0	2.39	3.08	0.06	0.08	0.19	0.032	0.04	10.8	12.7	3.68	550	3.16	0.02
ZZ69306		0.97	43.4	3.23	3.32	0.08	0.10	0.45	0.024	0.07	9.9	10.0	0.62	604	9.67	0.01
ZZ69307		0.42	7.1	0.67	0.93	0.05	0.03	0.06	0.008	0.03	3.4	3.6	8.76	191	1.51	0.02
ZZ69308		1.07	8.8	2.20	5.31	0.05	0.03	0.06	0.023	0.04	10.0	11.3	0.62	259	1.81	0.01
ZZ69309		1.03	9.3	1.74	4.95	0.05	0.04	0.09	0.020	0.03	8.0	11.1	0.43	255	1.75	0.02
ZZ69310		1.61	18.3	4.26	6.32	0.10	0.05	0.05	0.036	0.07	12.5	19.1	0.26	358	13.60	0.01
ZZ69311		0.92	20.0	2.31	3.39	0.09	0.06	0.14	0.031	0.09	16.7	11.6	0.16	212	18.15	<0.01
ZZ69312		1.34	17.3	3.28	7.59	0.09	0.02	0.14	0.024	0.06	14.1	7.0	0.17	138	10.50	0.01
ZZ69313		0.68	8.0	1.40	7.16	0.07	<0.02	0.04	0.012	0.04	13.2	1.4	0.05	58	12.25	<0.01
ZZ69314		1.56	15.0	3.64	7.41	0.09	0.07	0.42	0.035	0.05	11.6	17.9	0.36	243	5.87	0.01
ZZ69315		1.27	37.0	3.60	6.19	0.12	0.04	0.94	0.029	0.08	17.2	10.7	0.24	227	15.30	0.01
ZZ69316		0.46	137.0	3.00	2.62	0.19	0.08	11.40	0.047	0.10	31.7	5.3	0.07	223	55.0	<0.01
ZZ69317		1.56	79.8	3.59	2.22	0.09	0.02	0.15	0.024	0.11	14.6	4.4	0.09	227	1.47	<0.01
ZZ69318		0.94	118.0	3.77	2.25	0.17	0.12	0.41	0.046	0.10	29.4	6.6	0.10	707	43.2	0.01
ZZ69319		0.47	79.9	2.99	3.62	0.12	0.11	0.68	0.037	0.13	25.4	10.5	0.23	1560	18.30	<0.01
ZZ69320		1.10	121.5	4.14	3.63	0.17	0.08	0.26	0.044	0.17	26.5	9.0	0.29	294	50.3	<0.01
ZZ66091		0.58	40.2	11.50	1.70	0.24	0.08	0.17	0.015	0.06	5.9	5.6	0.56	3050	16.15	0.01
ZZ66092		0.65	53.9	4.96	2.03	0.15	0.10	0.24	0.020	0.07	9.4	8.1	0.80	604	19.00	0.01
ZZ66093		1.21	34.1	2.33	2.73	0.05	0.11	0.27	0.030	0.06	1.8	34.0	0.42	95	1.94	0.01
ZZ66094		1.10	33.0	2.15	2.45	<0.05	0.11	0.23	0.028	0.06	1.6	31.8	0.40	91	1.76	0.01
ZZ66095		1.03	33.5	2.61	3.05	0.06	0.10	0.16	0.033	0.05	2.7	31.7	0.40	81	3.07	0.01
ZZ66096		0.60	23.0	1.08	1.31	<0.05	0.08	0.13	0.016	0.04	5.2	6.0	0.27	95	1.79	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ69287		0.67	36.7	1250	75.0	13.1	0.001	0.06	2.25	2.9	1.8	0.6	34.8	<0.01	0.08	3.4
ZZ69288		0.12	53.1	2080	112.0	10.3	0.004	0.26	4.99	3.8	2.2	0.3	150.0	<0.01	0.30	3.1
ZZ69289		3.48	11.6	3460	76.4	14.1	0.003	0.86	4.55	2.2	6.0	0.5	202	<0.01	0.10	2.5
ZZ69290		0.29	12.6	390	11.6	12.4	0.008	0.05	0.68	2.5	2.2	0.4	71.0	<0.01	0.08	2.7
ZZ69291		0.40	42.8	1830	23.9	17.3	0.003	0.12	1.79	4.3	2.5	0.5	108.0	<0.01	0.12	2.2
ZZ69292		0.17	43.1	1620	537	10.7	0.002	0.09	51.3	5.0	1.8	0.4	49.8	<0.01	0.12	1.9
ZZ69293		0.19	14.5	1890	73.3	8.7	0.003	0.14	2.52	1.3	3.6	0.4	116.5	<0.01	0.09	0.6
ZZ69294		0.31	42.5	2110	199.0	9.8	0.004	0.07	7.47	5.4	2.9	0.4	77.9	<0.01	0.11	3.3
ZZ69295		0.23	25.0	1200	256	14.9	0.001	0.11	5.66	2.6	1.3	0.6	45.0	<0.01	0.09	1.8
ZZ69296		0.28	46.1	860	29.9	10.2	0.001	0.43	0.91	7.3	1.2	0.4	149.0	0.01	0.13	2.1
ZZ69297		0.20	25.5	1630	98.5	6.7	0.001	0.06	4.27	3.6	1.6	0.4	101.5	0.01	0.09	2.7
ZZ69298		0.45	519	6200	20.7	15.8	0.096	0.06	38.0	7.1	28.8	1.4	137.5	0.03	0.44	5.4
ZZ69299		0.18	61.3	2880	79.4	8.0	0.005	0.09	5.10	4.4	3.4	0.4	135.0	0.01	0.11	2.0
ZZ69300		0.35	54.3	1870	133.0	10.5	0.004	0.12	13.45	5.2	9.4	0.7	94.1	0.01	0.31	4.2
ZZ69301		0.17	9.2	1700	28.6	6.9	0.010	0.17	8.68	0.5	13.3	0.9	74.0	<0.01	0.17	<0.2
ZZ69302		0.99	38.6	480	42.7	9.4	<0.001	0.05	1.05	3.5	0.6	0.6	28.0	0.01	0.04	1.5
ZZ69303		0.50	15.7	840	24.6	7.0	<0.001	0.08	0.96	1.9	0.8	0.3	64.5	0.01	0.04	0.4
ZZ69304		0.46	25.5	720	61.9	12.7	<0.001	0.05	1.77	3.4	1.0	0.5	24.9	0.01	0.06	1.5
ZZ69305		0.76	38.4	1000	68.4	11.0	<0.001	0.09	1.42	3.5	1.1	0.3	65.5	0.01	0.06	1.1
ZZ69306		0.53	180.0	1230	59.9	9.2	0.001	0.12	4.41	3.4	3.2	0.4	41.4	0.01	0.08	0.9
ZZ69307		0.26	19.4	460	16.1	3.6	0.001	0.08	0.87	1.6	0.4	<0.2	113.0	<0.01	0.02	0.5
ZZ69308		1.03	15.4	320	19.3	9.2	<0.001	0.04	0.67	3.2	0.3	0.7	19.5	0.01	0.05	1.8
ZZ69309		0.84	13.2	790	18.2	5.6	<0.001	0.08	0.48	2.7	0.6	0.6	26.9	<0.01	0.05	1.0
ZZ69310		1.14	56.1	1090	67.4	14.9	0.001	0.04	2.83	3.6	1.9	0.7	22.5	0.01	0.09	3.7
ZZ69311		0.23	28.4	1160	62.5	11.7	0.003	0.12	5.69	3.2	6.1	0.9	62.0	<0.01	0.14	3.5
ZZ69312		1.12	20.5	1690	109.5	12.1	0.001	0.05	3.30	2.6	3.9	0.9	24.4	<0.01	0.10	2.0
ZZ69313		1.04	6.2	370	26.8	5.3	0.001	0.06	4.01	1.4	5.1	1.0	12.9	<0.01	0.12	1.2
ZZ69314		1.93	16.4	690	27.5	12.6	0.001	0.05	3.99	3.9	4.0	0.7	12.0	0.01	0.12	4.3
ZZ69315		0.86	64.2	2440	66.1	16.1	0.002	0.07	6.96	3.7	8.7	0.9	67.9	<0.01	0.16	2.1
ZZ69316		0.21	207	2750	18.9	8.1	0.002	0.07	18.75	4.3	6.8	1.2	105.5	0.02	0.20	1.5
ZZ69317		0.15	24.3	850	12.3	12.1	<0.001	0.04	1.22	4.2	1.0	0.5	27.5	<0.01	0.09	1.8
ZZ69318		0.16	130.0	4600	19.9	7.3	0.004	0.08	4.69	5.5	4.3	0.3	104.5	0.01	0.09	2.7
ZZ69319		0.26	78.3	1650	108.5	12.0	0.001	0.06	6.56	6.4	3.4	0.7	54.1	0.01	0.10	2.8
ZZ69320		0.18	111.5	1530	19.0	16.2	0.001	0.17	14.30	3.3	6.9	0.7	61.5	0.01	0.18	1.2
ZZ66091		0.29	203	1360	5.7	6.8	0.007	0.19	3.01	3.9	9.8	0.3	171.5	0.01	0.08	1.3
ZZ66092		0.26	210	2870	8.4	7.7	0.006	0.14	4.31	3.9	11.3	0.4	111.0	0.01	0.08	1.8
ZZ66093		0.07	46.8	650	10.0	9.1	0.009	0.17	0.49	2.3	3.4	0.2	58.6	<0.01	0.04	1.5
ZZ66094		0.07	43.7	610	9.1	8.1	0.009	0.17	0.44	2.1	3.1	0.2	59.2	<0.01	0.04	1.3
ZZ66095		0.09	34.1	490	11.2	7.3	0.005	0.09	0.60	2.3	2.3	0.2	45.6	<0.01	0.06	1.7
ZZ66096		0.26	29.8	960	5.6	5.2	0.003	0.16	0.86	2.0	2.7	0.2	92.7	0.01	0.06	0.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69287		0.009	0.26	1.62	73	0.11	4.91	218	1.7
ZZ69288		0.005	0.24	4.30	37	0.05	15.55	405	0.7
ZZ69289		0.038	0.55	3.76	70	0.25	9.41	52	1.7
ZZ69290		0.007	0.09	1.02	17	<0.05	2.64	65	0.8
ZZ69291		0.015	0.22	4.11	55	0.06	23.8	225	2.8
ZZ69292		<0.005	0.47	1.43	23	0.05	9.76	842	1.9
ZZ69293		0.007	0.22	3.07	41	0.06	10.60	102	<0.5
ZZ69294		0.010	0.33	4.66	37	0.07	23.3	1790	2.9
ZZ69295		0.006	0.37	1.47	67	0.05	4.55	354	0.8
ZZ69296		0.005	0.18	1.32	34	0.07	11.35	199	1.0
ZZ69297		0.005	0.30	2.27	58	0.08	11.20	190	1.8
ZZ69298		0.008	0.89	16.75	1000	0.96	88.7	2580	16.1
ZZ69299		<0.005	0.37	3.75	82	0.17	19.95	373	2.3
ZZ69300		0.008	1.60	5.69	329	0.53	24.8	390	3.0
ZZ69301		<0.005	1.94	5.74	143	0.32	6.75	45	<0.5
ZZ69302		0.018	0.16	1.28	68	0.22	6.35	430	1.1
ZZ69303		0.012	0.08	2.96	38	0.09	5.89	195	0.8
ZZ69304		0.007	0.20	1.50	81	0.11	9.51	217	1.6
ZZ69305		0.013	0.16	3.59	47	0.14	10.35	398	1.9
ZZ69306		0.008	0.37	4.67	77	0.13	18.20	1570	2.5
ZZ69307		0.005	0.08	1.46	20	0.05	3.84	149	0.9
ZZ69308		0.027	0.12	1.15	60	0.21	3.89	216	0.7
ZZ69309		0.017	0.13	3.40	52	0.29	3.85	124	0.8
ZZ69310		0.015	0.36	1.22	143	0.24	6.13	432	1.8
ZZ69311		<0.005	2.34	1.96	213	0.40	8.54	226	2.3
ZZ69312		0.027	0.57	1.43	321	0.35	4.80	146	<0.5
ZZ69313		0.028	0.56	0.52	218	0.37	1.99	39	<0.5
ZZ69314		0.041	0.68	1.28	573	0.45	3.23	102	2.4
ZZ69315		0.019	0.84	2.54	441	0.40	8.51	302	0.7
ZZ69316		0.005	0.79	4.96	388	0.36	39.3	1120	0.5
ZZ69317		<0.005	0.18	0.84	20	<0.05	6.06	132	<0.5
ZZ69318		<0.005	0.99	7.72	92	0.09	35.2	494	2.8
ZZ69319		0.005	0.58	4.54	150	0.16	28.9	590	2.5
ZZ69320		0.008	0.69	8.48	236	0.16	27.4	550	1.1
ZZ66091		<0.005	1.34	6.09	78	0.15	12.85	2330	2.3
ZZ66092		0.005	1.60	3.59	117	0.24	19.55	2250	3.0
ZZ66093		<0.005	0.09	1.56	20	<0.05	6.37	173	3.6
ZZ66094		<0.005	0.07	1.58	18	<0.05	5.83	161	3.3
ZZ66095		<0.005	0.08	1.42	24	<0.05	5.82	134	3.4
ZZ66096		0.007	0.12	3.11	18	0.09	9.48	84	2.3



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**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66097		0.14	0.003	1.19	0.83	10.2	<0.2	10	520	0.50	0.14	1.99	1.09	12.00	5.1	25
ZZ66098		0.14	0.005	1.02	0.58	158.5	<0.2	10	270	0.40	0.10	3.35	13.60	9.56	10.5	19
ZZ66099		0.20	0.005	1.47	0.58	13.3	<0.2	10	300	0.41	0.11	3.17	2.35	11.90	5.1	25
ZZ66100		0.20	0.003	1.65	0.45	12.1	<0.2	<10	520	0.31	0.13	1.95	1.39	15.30	3.8	27
ZZ66101		0.07	0.006	0.54	0.33	3.5	<0.2	10	520	0.30	0.07	3.89	1.69	7.29	3.7	11
ZZ66102		0.28	0.004	1.84	0.70	16.9	<0.2	<10	430	0.48	0.15	2.70	3.93	18.35	6.1	31
ZZ66103		0.13	0.004	1.04	0.49	131.5	<0.2	10	470	0.36	0.09	3.49	13.20	10.50	11.7	19
ZZ66104		0.17	0.003	1.21	0.38	10.7	<0.2	<10	560	0.23	0.10	1.83	1.13	11.30	3.0	22
ZZ66105		0.15	0.002	1.28	0.98	13.5	<0.2	<10	720	0.44	0.15	1.83	0.43	14.80	6.1	30
ZZ66106		0.15	0.003	1.15	0.66	6.9	<0.2	<10	1020	0.36	0.11	2.74	1.12	11.35	4.5	24
ZZ66107		0.16	0.007	0.26	0.88	9.9	<0.2	<10	210	0.45	0.20	0.21	0.30	12.70	6.1	19
ZZ66108		0.19	0.001	0.27	1.75	9.5	<0.2	<10	290	0.54	0.27	0.12	0.24	26.8	7.7	25
ZZ66109		0.21	0.002	0.37	1.16	14.6	<0.2	<10	240	0.86	0.24	0.15	0.96	17.75	13.6	27
ZZ66110		0.27	0.020	0.38	0.62	4.6	<0.2	<10	390	0.63	0.22	0.83	0.43	25.8	11.5	15
ZZ66111		0.22	0.020	0.86	0.77	4.3	<0.2	<10	560	0.69	0.22	1.08	0.47	30.7	11.0	17
ZZ66112		0.13	0.001	0.18	1.37	5.2	<0.2	<10	260	0.32	0.30	0.44	0.21	8.55	7.1	28
ZZ66113		0.25	0.001	0.08	1.69	9.9	<0.2	<10	320	0.85	0.36	0.21	0.46	12.35	10.2	23
ZZ66114		0.21	0.003	0.51	1.66	13.8	<0.2	<10	590	1.05	0.21	0.36	0.27	24.2	8.9	30
ZZ66115		0.15	0.003	0.16	0.88	6.9	<0.2	<10	250	0.44	0.21	0.50	0.29	18.25	7.4	31
ZZ66116		0.14	0.001	0.11	1.37	8.5	<0.2	<10	220	0.51	0.28	0.50	0.95	13.40	9.6	22
ZZ66117		0.12	0.004	0.10	0.62	5.5	<0.2	<10	160	0.19	0.18	0.14	0.59	15.20	5.8	13
ZZ66118		0.24	0.005	0.56	0.84	11.9	<0.2	<10	410	0.64	0.18	3.92	0.52	16.80	8.3	18
ZZ66119		0.18	0.007	0.51	1.24	9.1	<0.2	<10	230	0.89	0.24	0.55	0.92	28.5	11.4	22
ZZ66120		0.24	0.002	0.12	1.14	134.5	<0.2	<10	190	0.37	0.30	0.05	0.27	34.6	10.6	31
ZZ66121		0.21	0.003	2.13	1.41	67.4	<0.2	<10	170	0.33	0.27	0.02	0.32	35.2	6.6	32
ZZ66122		0.15	0.002	2.27	1.33	48.3	<0.2	<10	100	0.29	0.31	0.03	0.11	29.9	6.0	35
ZZ66123		0.18	0.003	0.16	0.68	6.6	<0.2	<10	80	0.09	0.18	0.01	0.10	29.0	4.5	7
ZZ66124		0.23	0.005	0.19	1.06	18.9	<0.2	<10	80	0.19	0.31	0.03	0.07	29.5	4.5	16
ZZ66125		0.21	0.002	0.09	1.05	10.7	<0.2	<10	70	0.13	0.27	0.05	0.06	25.0	1.9	20
ZZ66126		0.18	0.005	0.12	1.11	20.9	<0.2	<10	440	0.45	0.27	0.03	0.17	32.0	17.2	18
ZZ66127		0.31	0.004	0.09	1.95	32.4	<0.2	<10	380	0.74	0.26	0.07	0.39	33.5	10.8	33
ZZ66128		0.20	0.002	0.03	1.13	10.3	<0.2	<10	100	0.21	0.28	0.03	0.08	30.8	3.5	16
ZZ66129		0.14	0.001	0.02	1.00	8.0	<0.2	<10	130	0.19	0.24	0.03	0.05	31.5	3.8	15
ZZ66130		0.15	0.003	0.16	1.45	15.2	<0.2	<10	170	0.28	0.33	0.02	0.12	28.7	7.6	24
ZZ66131		0.10	0.006	0.27	1.15	58.1	<0.2	<10	190	0.43	0.36	0.02	0.15	30.7	15.7	22
ZZ66132		0.20	0.024	0.30	1.50	14.5	<0.2	<10	110	0.28	0.33	0.04	0.13	23.5	5.2	32
ZZ66133		0.15	0.002	0.02	0.81	8.8	<0.2	<10	60	0.09	0.29	0.03	0.06	27.6	2.9	14
ZZ66134		0.24	0.002	0.31	2.20	14.5	<0.2	<10	180	0.84	0.27	0.08	0.26	28.5	11.8	31
ZZ66135		0.21	0.006	1.97	1.46	25.9	<0.2	<10	570	0.56	0.26	0.16	0.31	33.4	10.9	26
ZZ66136		0.23	0.009	0.75	0.89	31.0	<0.2	<10	1570	0.54	0.23	1.04	1.40	31.9	9.2	19



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66097		1.04	28.7	1.70	2.25	0.05	0.10	0.17	0.024	0.06	9.5	11.0	0.23	192	2.04	0.01
ZZ66098		0.75	39.2	2.45	1.74	0.08	0.09	0.15	0.016	0.06	6.4	7.9	0.62	155	21.4	0.01
ZZ66099		0.47	40.8	1.50	1.78	0.07	0.09	0.22	0.019	0.08	8.7	7.4	0.73	408	4.51	0.01
ZZ66100		0.44	36.6	1.53	1.65	0.07	0.07	0.20	0.021	0.06	11.4	5.8	0.72	95	7.12	0.01
ZZ66101		0.43	25.7	0.80	0.91	<0.05	0.06	0.12	0.011	0.02	4.9	2.6	0.15	299	1.48	0.01
ZZ66102		0.50	61.8	1.81	2.26	0.07	0.07	0.20	0.028	0.07	13.2	9.2	0.89	145	3.87	0.02
ZZ66103		0.54	36.8	4.04	1.55	0.06	0.07	0.25	0.018	0.07	7.1	6.5	0.82	541	8.72	0.03
ZZ66104		0.40	34.5	1.36	1.26	<0.05	0.04	0.15	0.018	0.05	8.8	4.2	0.52	76	6.07	0.02
ZZ66105		0.52	17.8	2.05	2.87	0.05	0.05	0.12	0.029	0.05	10.5	10.4	0.27	192	2.44	0.03
ZZ66106		0.47	27.6	1.43	1.85	0.05	0.06	0.16	0.018	0.05	8.5	7.1	0.21	172	1.10	0.04
ZZ66107		0.67	117.5	2.52	3.65	<0.05	<0.02	0.04	0.024	0.07	7.2	10.9	0.18	178	3.35	0.01
ZZ66108		1.22	8.8	3.09	5.97	0.05	0.05	0.02	0.028	0.05	12.8	18.8	0.35	184	1.16	0.01
ZZ66109		0.86	37.2	3.46	3.13	0.05	0.05	0.11	0.041	0.10	9.7	16.4	0.26	691	6.29	0.01
ZZ66110		1.23	169.5	2.65	2.70	0.06	0.09	0.15	0.037	0.23	14.3	7.2	0.14	418	1.79	0.02
ZZ66111		1.15	280	2.58	2.87	0.09	0.07	0.25	0.037	0.22	22.4	9.5	0.16	394	1.64	0.02
ZZ66112		1.59	18.9	2.85	5.75	<0.05	0.02	0.03	0.027	0.07	4.6	16.2	0.24	279	1.15	0.02
ZZ66113		1.23	9.0	4.31	5.11	<0.05	0.04	0.01	0.035	0.07	5.3	24.4	0.31	597	1.00	0.01
ZZ66114		1.18	22.0	3.11	3.90	0.06	0.07	0.17	0.034	0.07	14.9	18.1	0.38	328	1.86	0.02
ZZ66115		0.78	20.1	2.59	3.68	<0.05	0.04	0.05	0.027	0.09	10.0	12.2	0.23	414	1.41	0.01
ZZ66116		0.64	16.6	3.11	5.02	<0.05	0.03	0.02	0.027	0.07	6.4	20.9	0.39	436	1.54	0.02
ZZ66117		0.85	22.8	2.10	4.16	<0.05	<0.02	0.02	0.016	0.09	8.6	6.8	0.13	115	1.79	0.01
ZZ66118		0.78	39.9	2.38	2.31	0.06	0.08	0.13	0.020	0.10	10.5	11.4	1.78	373	1.99	0.02
ZZ66119		0.93	39.5	3.21	3.76	0.07	0.08	0.10	0.035	0.12	13.4	21.8	0.49	482	1.36	0.01
ZZ66120		1.38	36.1	4.47	4.77	0.05	0.04	0.04	0.031	0.07	18.7	9.1	0.23	279	3.73	0.01
ZZ66121		1.47	36.9	4.15	6.80	0.06	0.04	0.20	0.038	0.06	20.4	10.4	0.19	169	4.24	0.01
ZZ66122		1.43	18.6	5.04	9.15	0.05	0.02	0.13	0.033	0.05	15.4	8.6	0.21	251	2.56	0.01
ZZ66123		1.50	27.0	1.63	4.14	<0.05	<0.02	0.01	0.012	0.04	15.6	1.1	0.04	57	1.60	0.01
ZZ66124		1.07	18.5	2.86	5.94	<0.05	0.04	0.02	0.020	0.06	15.1	6.3	0.10	127	2.68	0.01
ZZ66125		1.31	5.2	1.96	6.42	<0.05	0.02	0.04	0.018	0.03	12.6	6.4	0.14	62	2.14	0.01
ZZ66126		4.80	43.6	3.79	4.22	0.06	<0.02	0.03	0.026	0.08	15.6	8.3	0.17	1050	1.70	0.02
ZZ66127		1.49	32.5	3.90	5.60	0.06	0.08	0.05	0.040	0.08	17.9	22.4	0.37	272	3.82	0.02
ZZ66128		1.22	7.8	2.57	7.21	<0.05	0.03	0.02	0.019	0.04	15.4	8.6	0.16	162	1.84	0.01
ZZ66129		0.53	13.1	2.28	6.55	<0.05	<0.02	0.01	0.020	0.03	16.0	5.5	0.10	422	1.76	0.01
ZZ66130		1.18	28.8	4.34	7.19	0.05	0.02	0.02	0.029	0.09	16.7	7.9	0.27	333	3.71	0.01
ZZ66131		1.19	51.6	7.97	5.67	0.07	0.03	0.09	0.041	0.09	17.5	3.6	0.11	1560	18.40	0.01
ZZ66132		1.54	47.3	4.06	7.08	0.05	0.04	0.07	0.024	0.07	12.7	16.5	0.28	220	2.40	0.01
ZZ66133		0.61	10.0	2.20	7.68	<0.05	<0.02	0.03	0.012	0.02	14.5	2.9	0.07	116	2.00	0.01
ZZ66134		1.48	20.4	3.81	6.11	0.05	0.11	0.09	0.036	0.05	13.0	29.7	0.40	323	1.49	0.01
ZZ66135		1.37	37.3	3.50	4.30	0.06	0.04	0.57	0.041	0.11	18.8	16.9	0.28	393	5.19	0.02
ZZ66136		1.34	57.8	2.48	2.50	0.05	0.06	0.36	0.033	0.14	17.7	11.0	0.35	386	3.67	0.04

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66097		0.29	40.0	1410	9.3	8.6	0.006	0.15	0.93	2.5	3.8	0.3	70.9	0.01	0.07	0.8
ZZ66098		0.21	211	2230	7.0	6.5	0.011	0.41	8.41	3.0	5.7	0.3	98.2	0.01	0.06	1.0
ZZ66099		0.20	272	1150	8.0	6.7	0.005	0.12	1.77	3.2	4.3	0.4	90.6	0.01	0.08	1.2
ZZ66100		0.16	48.5	1150	8.0	4.8	0.005	0.07	2.04	3.2	3.1	0.4	72.8	0.01	0.09	2.0
ZZ66101		0.20	24.7	910	4.9	3.8	0.007	0.19	0.97	1.2	4.3	0.2	96.0	0.01	0.05	0.2
ZZ66102		0.28	76.6	1150	10.3	5.2	0.005	0.06	2.59	3.3	3.2	0.5	86.9	<0.01	0.05	1.6
ZZ66103		0.20	87.0	3820	6.6	4.7	0.010	0.18	4.54	2.4	4.1	0.4	100.5	<0.01	0.03	1.0
ZZ66104		0.15	45.1	1150	6.6	4.1	0.004	0.08	1.85	1.7	3.7	0.4	66.7	<0.01	0.05	0.9
ZZ66105		0.47	36.0	890	9.2	5.5	0.003	0.06	0.96	2.5	3.4	0.4	58.6	<0.01	0.03	0.7
ZZ66106		0.33	33.5	1180	6.8	5.3	0.004	0.10	0.84	2.1	3.1	0.3	86.1	<0.01	0.06	0.6
ZZ66107		0.47	32.3	1360	15.3	12.2	0.001	0.01	0.91	2.0	4.2	0.5	19.7	<0.01	0.04	1.3
ZZ66108		1.34	16.1	250	19.2	9.5	<0.001	<0.01	0.25	2.8	0.5	0.7	9.9	<0.01	0.03	3.3
ZZ66109		0.35	56.8	670	24.4	10.6	0.002	0.02	1.73	4.0	2.0	0.5	21.5	<0.01	0.09	3.1
ZZ66110		0.24	41.6	1720	10.2	14.2	0.002	0.02	0.76	5.9	2.2	0.5	39.4	<0.01	0.03	3.5
ZZ66111		0.25	49.3	1830	14.1	13.0	0.003	0.02	0.59	7.7	3.2	0.5	56.7	<0.01	0.06	3.0
ZZ66112		0.66	15.1	490	20.9	10.4	<0.001	0.03	0.26	3.1	0.6	0.9	21.5	<0.01	0.04	1.8
ZZ66113		0.51	20.4	220	53.4	13.7	0.001	<0.01	0.17	3.8	0.3	0.8	12.8	<0.01	0.02	3.7
ZZ66114		0.39	35.4	610	17.7	10.3	<0.001	0.01	0.60	5.2	1.3	0.5	17.8	<0.01	0.05	3.8
ZZ66115		0.47	27.8	730	16.2	10.1	0.001	0.02	0.36	3.3	0.7	0.6	28.5	<0.01	0.04	1.7
ZZ66116		0.68	17.9	410	23.7	8.8	0.001	0.01	0.27	2.8	1.0	0.7	27.2	<0.01	0.03	1.9
ZZ66117		0.48	12.9	510	10.5	13.1	<0.001	0.02	0.52	1.3	<0.2	0.5	9.7	<0.01	0.04	0.5
ZZ66118		0.32	33.1	810	19.0	6.2	0.001	0.03	0.91	4.0	1.5	0.4	54.5	<0.01	0.04	1.8
ZZ66119		0.46	26.9	810	21.5	10.5	0.001	0.01	0.52	6.1	1.6	0.5	26.8	<0.01	0.04	3.6
ZZ66120		0.80	54.1	630	45.8	14.1	<0.001	0.01	1.66	2.6	1.2	0.5	11.3	<0.01	0.11	3.2
ZZ66121		1.09	28.1	490	17.4	13.7	0.001	0.02	1.99	2.6	1.7	0.9	12.5	<0.01	0.11	3.5
ZZ66122		2.36	19.1	460	16.7	12.0	<0.001	0.01	1.30	2.3	0.9	1.0	6.6	<0.01	0.06	2.9
ZZ66123		0.29	13.8	300	6.6	8.4	<0.001	0.01	0.49	1.1	<0.2	0.6	8.2	<0.01	0.06	2.2
ZZ66124		1.45	14.0	260	14.9	14.3	<0.001	<0.01	0.86	1.9	0.7	0.8	7.7	<0.01	0.03	3.7
ZZ66125		1.39	5.7	280	12.9	8.6	0.001	0.01	0.45	1.6	1.2	0.7	8.0	<0.01	0.04	2.1
ZZ66126		0.63	36.5	420	16.3	9.0	<0.001	0.02	0.99	3.3	0.9	0.5	12.9	<0.01	0.05	2.6
ZZ66127		0.85	45.5	570	23.8	16.2	<0.001	0.02	1.18	3.3	1.3	0.6	21.6	<0.01	0.04	4.2
ZZ66128		1.55	8.7	170	12.0	11.0	<0.001	<0.01	0.58	1.7	0.7	0.9	5.9	<0.01	0.03	3.3
ZZ66129		0.81	10.2	260	9.4	5.1	<0.001	0.01	0.54	1.8	0.5	0.8	7.1	<0.01	0.03	2.2
ZZ66130		1.48	23.9	640	21.4	11.6	<0.001	0.04	1.31	2.9	0.8	0.8	15.1	<0.01	0.11	3.1
ZZ66131		0.49	62.2	1150	30.9	9.9	0.001	0.09	4.42	3.3	1.5	0.7	36.1	<0.01	0.23	1.7
ZZ66132		1.66	17.4	740	17.6	13.5	0.001	0.02	0.92	2.3	1.2	0.7	8.4	<0.01	0.04	3.0
ZZ66133		1.73	7.7	190	8.8	3.2	<0.001	<0.01	0.77	1.2	0.6	1.0	5.3	<0.01	0.03	1.6
ZZ66134		1.35	26.9	550	20.4	11.1	<0.001	0.01	0.60	3.7	0.7	0.7	12.9	<0.01	0.05	4.7
ZZ66135		0.51	35.8	2690	23.7	12.6	0.001	0.07	1.74	2.3	2.2	0.5	39.0	<0.01	0.09	1.3
ZZ66136		0.40	63.5	1580	21.3	10.4	0.005	0.17	1.85	3.0	2.0	0.4	166.0	<0.01	0.06	1.6

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**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66097		0.006	0.18	3.60	33	0.08	17.05	143	2.2
ZZ66098		0.005	2.34	90.5	55	0.18	12.80	5060	2.9
ZZ66099		0.005	0.61	3.25	63	0.13	15.90	1230	2.8
ZZ66100		0.005	0.25	2.53	55	0.18	16.85	199	2.0
ZZ66101		0.005	0.08	3.89	15	0.05	11.00	94	1.6
ZZ66102		0.006	0.34	2.56	120	0.16	24.9	378	2.8
ZZ66103		0.005	0.62	5.41	70	0.11	13.65	1180	2.4
ZZ66104		<0.005	0.20	2.35	46	0.14	13.45	173	1.8
ZZ66105		0.009	0.12	1.97	59	0.20	15.85	108	1.2
ZZ66106		0.007	0.12	2.37	42	0.07	16.30	111	2.1
ZZ66107		0.008	0.15	0.70	44	0.10	4.02	182	<0.5
ZZ66108		0.023	0.16	0.64	57	0.26	5.09	82	1.7
ZZ66109		0.005	0.25	1.08	51	0.07	9.23	171	1.9
ZZ66110		0.006	0.19	1.05	27	<0.05	13.35	192	3.8
ZZ66111		0.006	0.24	2.20	28	<0.05	29.2	176	2.5
ZZ66112		0.007	0.15	0.55	44	0.18	3.32	69	0.6
ZZ66113		<0.005	0.19	0.79	28	0.13	5.19	280	1.6
ZZ66114		<0.005	0.18	0.98	44	0.09	16.50	137	2.2
ZZ66115		0.009	0.11	0.70	33	0.14	9.15	77	1.0
ZZ66116		0.008	0.09	0.81	36	0.15	2.78	131	0.8
ZZ66117		0.014	0.07	0.32	37	0.14	2.04	84	<0.5
ZZ66118		0.007	0.14	1.10	27	0.07	15.40	158	2.6
ZZ66119		0.009	0.12	1.06	32	0.09	15.85	163	3.0
ZZ66120		0.014	0.22	0.65	57	0.14	3.77	173	1.3
ZZ66121		0.016	0.29	0.60	71	0.17	2.70	134	1.7
ZZ66122		0.052	0.21	0.53	83	0.32	2.20	64	1.0
ZZ66123		0.006	0.11	0.39	31	0.09	1.71	87	<0.5
ZZ66124		0.031	0.13	0.61	58	0.25	2.28	59	2.2
ZZ66125		0.031	0.15	0.58	51	0.29	1.94	21	0.5
ZZ66126		0.015	0.13	1.15	31	0.17	5.01	101	0.5
ZZ66127		0.013	0.19	0.93	60	0.16	4.64	102	3.1
ZZ66128		0.039	0.12	0.46	63	0.25	1.99	36	1.1
ZZ66129		0.017	0.12	0.36	53	0.18	2.05	38	<0.5
ZZ66130		0.039	0.13	0.80	80	0.18	3.08	83	1.2
ZZ66131		0.014	0.25	1.87	77	0.11	6.79	148	0.9
ZZ66132		0.034	0.15	0.65	73	0.27	2.85	81	1.5
ZZ66133		0.043	0.09	0.40	90	0.31	1.77	33	<0.5
ZZ66134		0.022	0.16	0.95	57	0.25	4.85	97	3.7
ZZ66135		0.010	0.26	2.20	60	0.15	10.30	111	1.3
ZZ66136		0.009	0.25	2.73	36	0.07	13.70	189	1.8



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66137		0.16	0.007	0.23	0.51	20.8	<0.2	<10	450	0.29	0.16	0.31	0.50	26.8	4.6	14
ZZ66138		0.17	0.009	0.70	0.71	21.5	<0.2	<10	470	0.31	0.20	0.19	0.49	33.7	12.0	21
ZZ66139		0.18	0.005	0.54	0.63	3.8	<0.2	<10	850	0.30	0.15	0.22	0.49	25.6	2.6	14
ZZ66140		0.12	0.004	0.47	0.58	4.0	<0.2	<10	290	0.09	0.14	0.06	0.15	16.75	1.2	14
ZZ66141		0.17	0.005	0.88	0.72	7.8	<0.2	<10	490	0.19	0.17	0.15	0.18	19.25	2.4	18
ZZ66142		0.16	0.003	0.81	1.75	15.3	<0.2	<10	430	0.43	0.22	0.19	0.21	28.0	7.0	30
ZZ66143		0.23	0.003	0.40	0.93	11.8	<0.2	<10	1060	0.26	0.21	0.09	0.14	44.5	1.4	16
ZZ66144		0.20	0.006	1.79	0.92	10.1	<0.2	<10	270	0.25	0.15	0.09	0.21	105.0	1.9	15
ZZ66145		0.23	0.007	0.74	1.24	15.6	<0.2	<10	610	0.39	0.23	0.09	0.15	31.6	5.4	23
ZZ66146		0.20	0.004	0.79	1.09	18.1	<0.2	<10	390	0.19	0.28	0.05	0.11	26.8	2.9	20
ZZ66147		0.16	0.016	0.41	1.57	17.8	<0.2	<10	190	0.27	0.24	0.02	0.23	28.9	5.5	26
ZZ66148		0.14	0.018	0.21	1.21	29.2	<0.2	<10	230	0.23	0.33	0.02	0.12	36.8	4.9	23
ZZ66149		0.18	0.002	0.44	0.67	3.5	<0.2	<10	250	0.17	0.25	0.01	0.10	29.4	1.6	19
ZZ66150		0.20	0.002	0.37	1.25	12.9	<0.2	<10	570	0.39	0.27	0.01	0.15	52.1	9.7	15
ZZ66151		0.29	0.003	0.12	1.48	15.3	<0.2	<10	140	0.35	0.35	0.05	0.12	33.4	5.3	22
ZZ66152		0.18	0.002	0.28	1.50	14.1	<0.2	<10	160	0.32	0.27	0.18	0.24	35.9	4.4	16
ZZ66153		0.21	0.003	0.19	1.08	42.7	<0.2	<10	170	0.32	0.30	0.04	0.23	35.3	8.5	19
ZZ66154		0.16	0.005	1.53	0.49	7.7	<0.2	<10	1920	0.19	0.14	1.51	0.78	30.4	1.3	10
ZZ66155		0.22	0.011	0.25	0.72	5.3	<0.2	<10	280	0.20	0.09	0.24	0.44	42.4	7.3	12
ZZ66156		0.18	0.004	0.29	0.89	10.1	<0.2	<10	160	0.25	0.17	0.12	0.46	24.8	13.1	19
ZZ66157		0.16	0.006	1.29	0.86	9.7	<0.2	<10	1020	0.43	0.15	0.60	0.43	22.4	3.2	43
ZZ66158		0.34	0.003	0.17	2.10	19.1	<0.2	<10	330	0.74	0.21	0.13	0.80	58.2	18.0	24
DD020451		0.23	0.004	0.20	1.75	15.8	<0.2	<10	160	0.78	0.26	1.55	0.81	34.0	12.9	32
DD020452		0.19	0.002	0.10	0.80	7	<0.2	<10	90	0.43	0.11	12.85	0.65	17.15	5.0	15
DD020453		0.17	0.001	0.08	0.51	7	<0.2	<10	60	0.29	0.07	15.10	0.65	10.65	3.3	10
DD020454		0.24	0.001	0.08	0.39	7	<0.2	10	60	0.28	0.06	17.45	1.30	9.30	2.3	8
DD020455		0.14	0.002	0.21	1.03	15	<0.2	<10	170	0.90	0.13	12.40	2.04	15.15	9.4	20
DD020456		0.17	0.002	0.06	0.38	5	<0.2	<10	40	0.22	0.06	15.10	0.50	8.27	3.1	8
DD020457		0.17	0.001	0.07	0.51	7	<0.2	10	60	0.28	0.08	14.35	0.84	10.20	3.6	9
DD020458		0.21	0.001	0.07	0.47	22	<0.2	<10	60	0.65	0.07	16.65	1.85	11.10	10.5	11
DD020459		0.12	0.002	0.04	0.30	4	<0.2	<10	30	0.17	0.04	17.20	0.51	5.34	2.2	6
DD020460		0.15	0.002	0.11	0.97	11.0	<0.2	<10	90	0.45	0.12	8.87	0.89	17.65	6.9	18
DD020461		0.20	0.002	0.11	0.99	12	<0.2	<10	100	0.53	0.12	10.20	0.70	19.50	6.7	17
DD020462		0.19	0.001	0.07	0.91	11	<0.2	10	90	0.65	0.13	12.50	1.15	20.5	6.2	16
DD020463		0.19	0.003	0.19	1.65	14.1	<0.2	<10	160	0.75	0.25	2.55	1.60	29.8	11.1	28
DD020464		0.17	0.002	0.15	1.44	12.0	<0.2	<10	180	0.60	0.22	1.91	1.79	25.1	9.9	24
DD020465		0.14	0.003	0.20	1.46	23.9	<0.2	<10	170	0.75	0.22	1.34	1.78	31.3	11.2	26
DD020466		0.21	0.004	0.18	1.35	33.4	<0.2	<10	150	0.68	0.19	2.19	1.29	35.3	10.3	27
DD020467		0.21	0.008	0.17	1.23	37.0	<0.2	<10	150	0.76	0.18	5.63	1.89	29.5	8.5	25
DD020468		0.14	0.002	0.19	1.31	18	<0.2	10	140	1.29	0.18	13.35	2.83	20.3	7.4	23



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ66137		1.29	29.3	1.96	2.32	0.05	0.02	0.10	0.024	0.11	15.8	4.8	0.13	163	3.71	0.02
ZZ66138		1.48	31.5	2.13	3.04	0.05	0.02	0.20	0.024	0.12	19.0	6.7	0.16	457	2.93	<0.01
ZZ66139		1.09	31.2	1.62	2.38	0.05	0.03	0.21	0.018	0.11	14.0	3.6	0.09	41	0.83	0.01
ZZ66140		1.09	23.1	1.42	2.98	<0.05	<0.02	0.24	0.017	0.04	8.8	2.8	0.07	23	0.98	<0.01
ZZ66141		1.19	31.7	2.36	3.38	<0.05	<0.02	0.35	0.028	0.06	10.8	3.4	0.09	54	2.29	0.01
ZZ66142		1.39	32.6	3.86	5.79	<0.05	0.03	0.24	0.035	0.07	15.0	15.5	0.37	273	3.22	0.01
ZZ66143		0.98	10.7	1.52	5.69	<0.05	<0.02	0.09	0.021	0.10	28.4	2.4	0.07	39	3.30	0.01
ZZ66144		4.35	28.6	3.22	3.98	0.09	0.03	0.62	0.063	0.27	64.2	2.6	0.12	46	5.55	0.02
ZZ66145		1.58	32.4	2.42	4.76	0.05	<0.02	0.33	0.034	0.09	18.7	10.8	0.22	188	2.85	<0.01
ZZ66146		2.10	11.1	2.50	7.49	<0.05	<0.02	0.11	0.018	0.09	14.9	4.8	0.16	114	2.53	0.01
ZZ66147		1.35	31.6	3.92	6.41	<0.05	0.02	0.06	0.032	0.08	15.8	9.9	0.21	219	3.01	<0.01
ZZ66148		1.41	38.8	3.20	8.41	<0.05	<0.02	0.02	0.026	0.07	19.7	5.8	0.13	128	2.72	<0.01
ZZ66149		1.43	8.7	0.59	5.08	<0.05	<0.02	0.02	0.009	0.09	21.1	1.9	0.06	22	1.72	<0.01
ZZ66150		1.84	37.7	4.02	5.02	0.06	0.02	0.05	0.027	0.11	28.2	6.4	0.12	184	8.05	<0.01
ZZ66151		1.33	14.6	3.52	7.19	0.05	0.07	0.03	0.030	0.07	18.1	10.1	0.22	181	2.80	<0.01
ZZ66152		1.10	46.1	2.72	5.67	0.05	0.02	0.06	0.021	0.07	18.9	7.4	0.16	99	2.00	<0.01
ZZ66153		0.91	41.6	4.30	5.71	0.05	<0.02	0.04	0.027	0.10	18.2	6.5	0.16	256	2.66	<0.01
ZZ66154		0.93	32.9	1.25	1.58	0.05	0.05	0.22	0.022	0.07	18.5	2.1	0.27	23	5.86	0.02
ZZ66155		1.40	33.8	1.68	2.87	0.05	0.02	0.10	0.018	0.08	22.2	3.1	0.12	283	2.46	<0.01
ZZ66156		1.68	34.0	2.84	3.31	<0.05	<0.02	0.13	0.025	0.07	13.2	13.6	0.33	366	4.00	<0.01
ZZ66157		0.95	32.2	2.13	3.12	0.05	<0.02	0.44	0.021	0.07	13.6	5.7	0.27	72	5.21	0.01
ZZ66158		1.38	53.2	4.09	6.62	0.08	0.03	0.14	0.037	0.08	34.4	22.4	0.49	506	3.92	0.01
DD020451		1.12	17.4	3.03	5.35	0.05	0.03	0.09	0.033	0.06	17.0	14.2	0.96	558	1.08	0.01
DD020452		0.40	10.2	1.23	1.89	<0.05	0.03	0.08	0.015	0.04	8.1	6.7	7.83	238	0.62	0.02
DD020453		0.33	7.4	0.78	1.19	<0.05	0.03	0.04	0.011	0.03	5.1	4.1	9.44	176	0.47	0.02
DD020454		0.21	7.2	0.57	0.82	<0.05	0.04	0.08	0.007	0.04	4.7	3.9	10.10	208	0.42	0.03
DD020455		0.79	29.5	1.63	2.55	<0.05	0.08	2.01	0.024	0.09	9.7	9.9	6.85	275	1.83	0.02
DD020456		0.26	7.2	0.58	0.80	<0.05	0.03	0.06	0.006	0.03	4.2	2.8	9.25	172	0.45	0.02
DD020457		0.31	8.8	0.72	1.06	<0.05	0.03	0.05	0.011	0.04	5.4	4.0	8.61	251	0.53	0.02
DD020458		0.62	22.5	0.89	1.16	<0.05	0.04	0.86	0.013	0.04	6.1	4.7	8.75	202	1.93	0.02
DD020459		0.25	5.5	0.43	0.63	<0.05	0.03	0.02	0.005	0.02	2.6	2.2	10.80	131	0.33	0.02
DD020460		0.47	14.2	1.68	2.32	<0.05	0.03	0.04	0.015	0.05	8.3	8.5	5.09	281	1.08	0.02
DD020461		0.42	13.3	1.68	2.39	<0.05	0.05	0.16	0.017	0.05	9.3	9.3	5.78	270	0.88	0.02
DD020462		0.39	12.4	1.44	2.15	<0.05	0.04	0.04	0.020	0.07	9.9	7.5	7.44	399	0.85	0.03
DD020463		0.90	18.5	2.76	4.71	<0.05	0.04	0.05	0.036	0.08	14.2	12.9	1.40	626	1.11	0.02
DD020464		0.76	19.5	2.46	3.92	<0.05	0.02	0.06	0.025	0.06	12.2	10.6	0.41	755	1.11	0.01
DD020465		0.90	24.6	2.68	4.15	0.05	0.05	0.06	0.029	0.07	15.1	12.1	0.39	710	1.44	0.02
DD020466		0.97	25.7	2.71	3.77	0.10	0.05	0.07	0.027	0.07	18.9	12.0	0.45	451	1.52	0.02
DD020467		1.06	27.2	2.42	3.07	0.08	0.04	0.09	0.028	0.07	16.9	9.6	0.34	485	1.28	0.02
DD020468		1.32	26.4	1.76	2.93	0.07	0.11	0.09	0.031	0.08	13.3	9.9	0.40	587	1.35	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66137		0.46	22.6	1240	23.1	10.0	0.001	0.08	1.34	1.6	0.9	0.3	75.9	<0.01	0.10	1.3
ZZ66138		0.35	23.4	1490	29.8	11.7	0.001	0.07	1.05	2.4	1.1	0.4	57.4	<0.01	0.07	1.3
ZZ66139		0.26	15.1	700	13.7	12.4	0.001	0.11	0.60	2.2	2.1	0.3	51.0	<0.01	0.03	1.7
ZZ66140		0.34	8.0	1100	9.7	6.7	0.001	0.09	0.36	0.1	2.8	0.4	17.1	<0.01	0.04	<0.2
ZZ66141		0.31	11.6	2670	13.0	7.4	0.003	0.10	0.85	0.2	4.4	0.4	31.5	<0.01	0.08	<0.2
ZZ66142		1.30	21.0	3550	12.3	10.1	0.002	0.08	1.21	2.6	2.8	0.6	30.7	<0.01	0.06	2.3
ZZ66143		0.60	5.6	1570	18.1	8.6	0.001	0.15	0.84	0.6	1.4	0.7	52.0	<0.01	0.05	0.3
ZZ66144		1.38	11.0	2280	18.0	19.6	0.004	0.76	3.08	1.3	2.6	0.5	167.0	<0.01	0.04	1.3
ZZ66145		0.68	16.1	1480	15.9	9.9	0.002	0.11	1.04	1.7	2.5	0.6	75.2	<0.01	0.07	0.7
ZZ66146		0.96	8.0	1040	23.5	11.2	<0.001	0.12	0.78	1.4	2.6	0.9	67.6	<0.01	0.05	0.9
ZZ66147		0.82	18.9	720	21.9	14.3	<0.001	0.03	1.12	2.6	0.6	0.7	10.4	<0.01	0.09	2.7
ZZ66148		0.96	18.3	720	18.7	12.3	<0.001	0.03	1.12	2.2	0.9	1.0	50.5	<0.01	0.10	2.9
ZZ66149		0.11	8.6	330	18.2	8.1	0.001	0.05	0.67	0.6	<0.2	0.9	15.0	<0.01	0.06	0.4
ZZ66150		0.33	32.6	370	12.1	18.6	0.001	0.02	0.98	2.6	0.6	0.6	7.0	<0.01	0.05	5.0
ZZ66151		1.35	14.0	410	20.8	15.9	<0.001	0.04	1.03	2.6	1.2	0.8	20.9	<0.01	0.08	4.9
ZZ66152		0.66	27.2	1350	12.6	11.3	<0.001	0.05	0.79	2.4	1.2	0.6	50.4	<0.01	0.04	3.8
ZZ66153		0.97	23.9	890	18.0	14.3	<0.001	0.03	1.10	2.6	0.7	0.7	11.1	<0.01	0.09	3.4
ZZ66154		0.66	17.9	960	10.3	4.9	0.010	0.21	2.44	1.5	4.9	0.4	135.0	<0.01	0.05	1.1
ZZ66155		0.14	17.8	1070	8.2	6.7	0.001	0.08	0.64	1.6	0.8	0.2	13.2	<0.01	0.04	0.7
ZZ66156		0.28	24.2	1080	11.6	9.3	0.001	0.04	0.86	1.3	1.8	0.3	11.0	<0.01	0.03	0.9
ZZ66157		1.00	36.7	3570	9.2	8.5	0.006	0.14	1.56	1.5	4.8	0.5	66.3	<0.01	0.09	0.3
ZZ66158		0.64	46.0	720	15.4	14.6	<0.001	0.02	1.04	4.8	1.3	0.7	10.7	<0.01	0.03	3.7
DD020451		0.74	29.0	940	14.8	10.9	0.001	0.08	0.81	2.7	0.9	0.6	20.7	<0.01	0.04	1.0
DD020452		0.33	15.3	710	6.5	4.3	0.001	0.06	0.60	1.5	0.7	0.3	107.5	<0.01	0.03	0.7
DD020453		0.20	12.0	580	4.3	3.3	0.002	0.06	0.48	1.0	0.2	0.2	105.0	<0.01	<0.01	0.5
DD020454		0.11	13.6	660	3.7	3.8	0.001	0.08	0.56	0.9	0.2	0.2	139.0	<0.01	<0.01	0.4
DD020455		0.27	62.2	770	9.9	7.0	0.002	0.06	1.20	2.8	1.3	0.4	97.6	<0.01	0.05	0.9
DD020456		0.17	9.4	530	3.6	2.8	0.001	0.07	0.37	0.7	<0.2	0.2	105.5	<0.01	0.01	0.3
DD020457		0.16	12.4	780	4.7	4.5	0.002	0.09	0.50	0.7	0.3	0.2	118.5	<0.01	0.02	0.3
DD020458		0.22	83.3	430	5.6	3.2	0.002	0.05	1.42	1.7	0.8	0.3	127.5	<0.01	0.02	0.6
DD020459		0.15	8.0	420	2.9	2.3	0.001	0.05	0.31	0.6	<0.2	0.2	97.6	<0.01	<0.01	0.3
DD020460		0.39	19.7	800	7.9	5.1	0.001	0.08	1.04	1.5	0.8	0.3	64.6	<0.01	0.02	0.7
DD020461		0.42	22.7	730	7.8	4.7	0.001	0.06	0.88	1.9	<0.2	0.3	73.8	<0.01	0.02	0.9
DD020462		0.26	20.4	1010	8.3	6.0	0.001	0.09	0.91	1.4	0.8	0.3	92.8	<0.01	0.03	0.5
DD020463		0.57	27.1	1290	15.2	9.8	<0.001	0.11	0.89	2.1	0.6	0.5	27.8	<0.01	0.04	0.7
DD020464		0.54	24.0	1320	13.2	8.6	0.001	0.14	0.76	1.4	0.7	0.4	20.9	<0.01	0.03	0.4
DD020465		0.61	41.7	1050	13.9	9.1	0.001	0.12	1.14	2.2	1.0	0.5	19.4	<0.01	0.06	0.8
DD020466		0.76	45.7	1090	13.3	7.0	<0.001	0.05	1.82	3.2	1.2	0.5	31.5	<0.01	0.06	1.9
DD020467		0.46	44.1	1150	12.6	6.8	0.001	0.11	1.91	1.6	1.2	0.5	36.0	0.01	0.08	0.6
DD020468		0.57	68.2	1230	12.9	7.7	<0.001	0.13	1.23	2.0	1.3	0.6	44.8	0.01	0.12	0.6





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66137		0.012	0.13	1.27	33	0.09	5.94	98	0.7
ZZ66138		0.010	0.19	1.49	39	0.09	7.14	95	0.7
ZZ66139		0.011	0.15	1.50	17	0.08	6.40	37	0.9
ZZ66140		0.006	0.17	2.02	14	0.14	4.02	16	<0.5
ZZ66141		0.007	0.16	2.57	27	0.14	5.79	75	<0.5
ZZ66142		0.036	0.19	1.99	61	0.36	5.74	81	0.8
ZZ66143		0.016	0.15	1.00	60	0.16	3.04	26	<0.5
ZZ66144		0.024	0.63	1.50	54	0.19	7.81	60	1.2
ZZ66145		0.020	0.24	2.06	54	0.25	6.90	52	<0.5
ZZ66146		0.039	0.18	0.71	72	0.27	2.27	33	<0.5
ZZ66147		0.019	0.19	0.61	71	0.13	2.61	81	1.1
ZZ66148		0.026	0.20	0.68	78	0.18	3.09	71	<0.5
ZZ66149		0.012	0.11	0.53	32	0.06	1.56	53	<0.5
ZZ66150		0.009	0.19	0.79	43	0.07	4.82	119	1.4
ZZ66151		0.035	0.19	0.70	58	0.24	2.70	54	3.1
ZZ66152		0.017	0.14	1.48	50	0.16	8.85	64	0.8
ZZ66153		0.023	0.17	0.55	51	0.18	3.08	111	0.5
ZZ66154		0.009	0.19	1.84	24	0.18	8.46	39	2.4
ZZ66155		0.005	0.12	0.88	24	<0.05	9.37	62	0.5
ZZ66156		0.008	0.23	1.04	31	0.10	4.31	113	0.5
ZZ66157		0.014	0.21	2.89	80	0.12	14.65	128	<0.5
ZZ66158		0.011	0.36	1.50	70	0.16	22.2	182	1.4
DD020451		0.030	0.17	1.41	59	0.22	9.80	120	0.7
DD020452		0.016	0.09	1.04	29	0.11	5.57	94	1.0
DD020453		0.011	0.07	0.71	21	0.07	3.73	82	0.9
DD020454		0.006	0.11	1.00	16	<0.05	4.53	130	1.3
DD020455		0.006	0.34	1.27	44	0.08	14.30	236	2.9
DD020456		0.010	0.07	0.76	17	0.05	3.93	57	0.9
DD020457		0.009	0.07	0.93	21	0.07	5.19	96	1.0
DD020458		0.006	0.48	2.14	31	0.12	10.10	274	2.1
DD020459		0.009	0.06	0.80	14	<0.05	2.06	50	0.9
DD020460		0.022	0.09	1.04	36	0.14	5.80	115	1.2
DD020461		0.024	0.09	0.96	36	0.12	6.37	107	1.3
DD020462		0.013	0.11	1.14	35	0.16	7.19	132	0.9
DD020463		0.025	0.15	1.27	55	0.22	9.23	152	0.9
DD020464		0.023	0.13	1.90	51	0.19	8.89	140	0.7
DD020465		0.028	0.18	1.44	55	0.42	12.75	182	1.5
DD020466		0.040	0.13	1.36	59	0.29	13.40	164	1.2
DD020467		0.022	0.17	1.34	61	0.47	14.15	216	0.9
DD020468		0.019	0.36	1.49	49	0.16	19.50	330	3.8



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 Finalized Date: 15- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020469		0.22	0.004	0.22	1.54	16.9	<0.2	<10	180	0.74	0.20	1.26	1.46	31.7	10.7	28
DD020470		0.15	0.003	0.20	1.27	28.4	<0.2	<10	150	0.66	0.19	3.92	2.04	27.0	9.4	25
DD020471		0.14	0.005	0.26	1.25	24.3	<0.2	10	140	0.88	0.20	4.03	5.69	24.5	14.4	25
DD020472		0.13	0.007	0.25	1.30	30.5	<0.2	<10	130	0.88	0.20	6.19	6.44	30.2	12.0	28
DD020473		0.18	0.003	0.14	0.94	16	<0.2	<10	130	0.98	0.12	13.50	3.07	21.1	21.7	16
DD020474		0.16	0.011	0.37	0.75	43.0	<0.2	<10	630	0.47	0.21	1.85	1.51	28.2	4.7	14
DD020475		0.23	0.009	0.64	1.01	39.7	<0.2	<10	730	0.63	0.21	0.54	2.05	34.9	5.2	13
DD020476		0.24	0.003	0.19	1.49	15.0	<0.2	<10	200	0.64	0.20	2.21	3.98	23.8	9.4	23
DD020477		0.10	0.006	0.19	1.36	12.5	<0.2	<10	190	0.71	0.18	1.43	6.50	27.8	16.4	26
DD020478		0.23	0.003	0.11	0.79	21	<0.2	10	140	0.83	0.09	22.8	2.95	12.70	5.6	14
DD020479		0.20	0.002	0.15	1.80	76.7	<0.2	<10	340	2.59	0.27	0.69	12.30	34.6	37.6	32
DD020480		0.14	0.003	0.17	1.16	12.5	<0.2	<10	100	0.54	0.16	6.76	2.84	20.6	9.6	19
DD020481		0.15	0.006	0.40	2.11	43.7	<0.2	<10	2050	1.22	0.27	0.70	6.50	60.0	20.3	41
DD020482		0.21	0.003	0.26	1.60	60.2	<0.2	<10	370	1.07	0.21	4.18	3.46	40.1	21.9	31
DD020483		0.13	0.005	0.21	6.27	24	<0.2	10	290	2.24	0.09	11.70	60.0	16.45	44.4	17
DD020484		0.10	0.006	3.30	0.66	17.5	<0.2	10	950	0.43	0.19	1.90	1.08	11.45	4.8	34
DD020485		0.16	0.015	3.30	0.66	17.8	<0.2	10	960	0.44	0.19	1.83	1.12	11.75	4.8	35
DD020486		0.24	0.005	1.14	0.52	10.7	<0.2	10	840	0.47	0.18	1.02	0.92	13.35	13.5	14
DD020487		0.16	0.004	0.16	0.84	7.7	<0.2	<10	380	0.24	0.20	0.23	0.54	18.85	4.6	17
DD020488		0.12	0.004	0.47	0.45	4.6	<0.2	<10	570	0.19	0.14	0.85	1.76	13.40	5.4	10
DD020489		0.12	0.005	0.13	1.05	10.5	<0.2	<10	150	0.19	0.25	0.06	0.23	24.5	5.2	23
DD020490		0.21	0.006	0.21	1.79	13.2	<0.2	<10	500	0.56	0.25	0.27	0.43	41.3	9.0	30
DD020491		0.22	0.003	0.29	1.62	12.4	<0.2	<10	410	0.71	0.21	0.45	0.89	39.4	10.1	35
DD020492		0.28	0.002	0.12	2.09	12.6	<0.2	<10	610	0.68	0.25	0.61	0.54	37.7	11.2	32
DD020493		0.08	0.010	0.14	1.99	11.1	<0.2	<10	330	0.65	0.23	0.80	0.58	33.8	7.4	31
DD020494		0.15	0.002	0.17	1.70	10.2	<0.2	<10	520	0.68	0.23	0.98	1.16	34.0	9.9	39
DD020495		0.15	0.004	0.32	1.17	11.8	<0.2	<10	260	0.62	0.21	0.58	0.71	28.7	10.2	23
DD020496		0.25	0.002	0.08	1.63	11.1	<0.2	<10	140	0.37	0.29	0.10	0.18	25.3	6.2	26
DD020497		0.14	0.002	0.15	1.81	10.8	<0.2	<10	240	0.60	0.24	0.40	0.32	25.9	7.0	26
DD020498		0.15	0.004	0.12	1.34	12.0	<0.2	<10	160	0.42	0.17	0.15	0.47	24.5	8.1	25
DD020499		0.12	0.004	0.18	1.07	11.5	<0.2	<10	100	0.23	0.28	0.05	0.25	21.2	4.4	21
DD020500		0.23	0.003	0.41	1.99	14.2	<0.2	<10	160	0.58	0.21	0.08	0.31	24.2	10.2	30



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD020469		0.79	26.6	2.74	4.23	0.10	0.07	0.08	0.029	0.06	18.0	14.6	0.46	488	1.10	0.02
DD020470		0.86	25.9	2.45	3.47	0.08	0.05	0.10	0.029	0.07	15.4	11.1	0.41	458	1.29	0.02
DD020471		0.99	26.2	2.22	3.06	0.08	0.05	0.16	0.031	0.08	16.7	9.6	0.31	804	1.33	0.02
DD020472		0.89	23.2	2.39	3.25	0.10	0.04	0.12	0.032	0.07	24.0	10.4	0.37	621	1.29	0.02
DD020473		1.20	26.7	1.53	2.12	0.07	0.05	0.19	0.020	0.05	13.9	7.6	0.29	385	1.67	0.02
DD020474		1.21	27.8	2.04	1.60	0.12	0.17	0.24	0.041	0.19	21.3	2.0	0.09	64	84.7	0.01
DD020475		1.33	34.1	1.90	1.46	0.13	0.10	0.32	0.031	0.12	26.0	2.3	0.04	85	52.6	0.01
DD020476		0.91	15.8	2.38	3.95	0.06	0.03	0.07	0.024	0.05	11.2	9.7	0.34	631	1.17	0.02
DD020477		1.10	21.8	2.45	3.29	0.09	0.04	0.07	0.024	0.06	16.0	10.4	0.37	412	1.51	0.02
DD020478		1.86	16.2	0.88	1.82	0.06	0.15	0.07	0.019	0.07	11.5	6.3	0.18	256	0.88	0.02
DD020479		2.24	64.0	3.90	4.82	0.17	0.18	1.10	0.049	0.09	20.4	18.1	0.29	974	5.03	0.01
DD020480		0.73	13.6	1.86	2.71	0.06	0.03	0.08	0.022	0.05	10.0	9.6	4.30	470	1.18	0.02
DD020481		1.45	31.2	3.77	5.66	0.15	0.08	0.37	0.038	0.07	26.1	15.5	0.64	731	1.43	0.02
DD020482		1.59	24.5	3.13	3.69	0.13	0.07	0.07	0.033	0.11	34.9	11.2	0.41	591	4.01	0.02
DD020483		1.06	51.2	4.39	1.71	0.18	0.29	0.09	0.017	0.08	9.4	8.7	1.01	580	43.2	0.01
DD020484		1.63	42.5	1.91	1.69	0.09	0.10	0.34	0.034	0.11	8.4	2.3	0.06	118	4.31	0.01
DD020485		1.65	41.7	1.94	1.72	0.09	0.09	0.34	0.036	0.11	8.8	2.3	0.05	123	4.56	0.01
DD020486		1.23	35.1	2.45	1.44	0.09	0.09	0.17	0.035	0.10	6.8	3.3	0.08	316	4.55	0.01
DD020487		1.17	15.1	2.02	3.25	0.06	0.02	0.04	0.024	0.07	8.6	7.1	0.16	111	1.50	0.01
DD020488		1.03	13.7	1.34	1.88	0.05	<0.02	0.10	0.017	0.08	6.5	1.8	0.06	521	1.13	0.01
DD020489		1.22	12.5	2.74	5.65	0.08	<0.02	0.04	0.029	0.05	12.7	7.9	0.18	114	1.99	0.01
DD020490		1.70	21.4	3.02	5.00	0.12	0.03	0.05	0.036	0.06	18.8	14.2	0.39	392	1.83	0.01
DD020491		1.02	16.4	3.11	4.21	0.16	0.06	0.07	0.041	0.05	28.1	11.6	0.31	340	1.73	0.01
DD020492		1.63	14.2	3.10	5.60	0.10	0.04	0.04	0.035	0.05	16.5	15.3	0.41	476	1.53	0.01
DD020493		1.01	12.8	3.08	5.40	0.10	0.04	0.05	0.037	0.04	15.8	14.1	0.20	213	1.60	0.01
DD020494		1.20	14.0	3.18	4.99	0.15	0.05	0.04	0.040	0.04	29.0	13.8	0.25	538	1.34	0.01
DD020495		1.15	24.7	2.62	3.26	0.12	0.06	0.07	0.032	0.07	23.1	10.3	0.34	309	1.59	0.02
DD020496		2.00	13.2	2.72	6.80	0.07	<0.02	0.03	0.026	0.05	12.6	9.0	0.26	326	1.83	0.01
DD020497		1.67	12.7	2.85	5.58	0.08	0.02	0.04	0.035	0.06	10.8	15.3	0.28	444	2.09	0.01
DD020498		1.09	19.9	2.74	4.10	0.08	<0.02	0.03	0.028	0.05	11.8	12.1	0.35	190	2.98	0.01
DD020499		1.20	18.6	2.31	6.55	0.07	<0.02	0.05	0.023	0.04	10.6	3.6	0.12	128	4.22	0.01
DD020500		1.34	17.5	3.27	5.13	0.09	0.05	0.03	0.038	0.05	11.7	23.3	0.30	168	2.83	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12149082**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD020469		0.85	43.6	1030	12.7	8.2	<0.001	0.06	1.10	3.7	1.0	0.5	25.3	<0.01	0.07	1.9
DD020470		0.70	45.6	1200	12.3	7.8	0.001	0.10	1.39	2.2	1.4	0.5	34.2	<0.01	0.06	0.9
DD020471		0.49	96.5	2130	13.6	7.8	0.001	0.20	1.60	1.3	1.5	0.5	30.4	0.01	0.08	0.4
DD020472		0.57	67.2	1910	14.3	7.6	0.001	0.13	1.59	1.6	1.8	0.6	49.4	0.01	0.07	0.4
DD020473		0.44	95.2	1330	9.1	5.2	0.001	0.06	1.39	2.0	1.3	0.4	100.5	0.01	0.05	0.7
DD020474		0.16	61.2	680	16.7	8.0	0.001	0.29	12.85	4.1	9.6	0.8	40.4	<0.01	0.49	3.9
DD020475		0.16	54.3	960	14.8	7.1	0.001	0.18	9.73	2.4	8.1	0.7	42.6	<0.01	0.34	2.4
DD020476		0.72	36.3	1540	12.3	7.0	<0.001	0.15	0.87	1.2	0.9	0.4	22.3	0.01	0.04	0.3
DD020477		0.60	71.8	870	11.8	8.0	<0.001	0.11	1.02	2.0	1.1	0.4	21.2	0.01	0.05	0.7
DD020478		0.37	145.5	1010	6.1	5.9	<0.001	0.15	1.04	1.6	1.2	0.3	91.1	<0.01	0.10	0.7
DD020479		0.53	745	1110	19.8	11.3	0.001	0.08	4.35	6.4	3.3	0.8	30.1	0.01	0.12	2.2
DD020480		0.39	35.7	960	10.1	7.4	<0.001	0.10	0.86	1.2	0.8	0.3	34.9	<0.01	0.05	0.4
DD020481		1.51	125.5	440	17.8	10.5	<0.001	0.08	2.37	7.4	1.3	0.7	27.2	0.01	0.07	5.2
DD020482		0.54	186.5	2410	15.0	9.6	<0.001	0.09	2.75	2.5	1.8	0.6	83.9	0.01	0.08	1.1
DD020483		0.27	1215	1870	6.7	6.5	0.002	0.08	4.66	3.7	6.6	0.2	134.0	0.03	0.07	2.0
DD020484		0.19	80.0	1750	10.5	9.4	0.001	0.17	1.65	3.2	6.8	0.4	148.5	0.01	0.13	0.9
DD020485		0.19	79.3	1740	10.7	9.8	0.002	0.17	1.69	3.2	6.6	0.4	153.5	0.01	0.14	0.9
DD020486		0.16	70.5	850	13.3	9.4	0.002	0.10	1.66	3.3	3.7	0.3	54.9	0.01	0.12	0.9
DD020487		0.65	22.3	360	11.8	11.9	<0.001	0.04	0.83	2.4	0.9	0.5	26.7	<0.01	0.08	2.1
DD020488		0.37	16.0	660	8.4	16.0	<0.001	0.10	0.64	1.8	0.6	0.4	32.7	<0.01	0.06	0.4
DD020489		1.03	26.0	330	12.7	7.2	<0.001	0.03	1.08	2.4	0.6	0.8	10.0	<0.01	0.09	1.2
DD020490		0.63	35.2	880	14.2	11.5	<0.001	0.06	0.91	3.0	1.3	0.6	19.0	<0.01	0.08	1.0
DD020491		0.70	39.3	1020	15.3	9.2	<0.001	0.04	0.99	4.2	1.7	0.5	30.0	0.01	0.09	2.6
DD020492		1.02	25.4	670	16.2	9.1	<0.001	0.06	0.89	3.1	0.9	0.7	26.5	0.01	0.05	1.4
DD020493		1.38	21.5	620	17.0	6.5	<0.001	0.06	0.86	3.2	1.2	0.7	28.1	0.01	0.07	2.0
DD020494		0.73	28.2	890	16.6	8.4	0.001	0.07	0.80	3.1	1.8	0.7	28.9	0.01	0.12	0.9
DD020495		0.60	39.2	580	13.8	8.5	0.001	0.04	0.97	4.6	1.7	0.5	22.6	0.01	0.09	2.5
DD020496		0.57	16.3	580	13.6	10.2	<0.001	0.06	0.85	0.9	0.4	0.9	11.1	<0.01	0.06	<0.2
DD020497		0.49	18.3	1150	15.9	9.6	0.001	0.08	0.66	1.4	0.6	0.9	19.6	<0.01	0.05	0.3
DD020498		0.59	39.7	720	11.6	7.1	0.001	0.05	0.91	2.0	1.4	0.5	16.5	<0.01	0.04	0.6
DD020499		0.89	17.2	600	11.2	5.6	<0.001	0.05	1.09	1.6	1.0	0.9	13.6	<0.01	0.07	0.3
DD020500		1.59	28.2	440	14.8	10.2	<0.001	0.05	1.07	4.8	1.5	0.6	29.2	0.01	0.07	3.9





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020469		0.034	0.14	1.10	60	0.24	16.90	163	1.9
DD020470		0.030	0.15	1.57	55	0.54	13.75	202	1.4
DD020471		0.016	0.34	3.02	63	0.26	23.8	429	1.5
DD020472		0.021	0.25	3.41	65	0.28	31.3	318	1.0
DD020473		0.019	0.46	2.92	42	0.14	29.0	366	1.4
DD020474		0.006	3.91	2.88	196	0.26	13.35	143	10.3
DD020475		0.005	4.07	3.45	178	0.21	19.50	131	4.7
DD020476		0.017	0.15	2.87	48	0.28	11.25	164	0.6
DD020477		0.025	0.31	1.41	52	0.24	26.1	280	0.9
DD020478		0.007	0.37	1.89	33	0.10	19.40	771	4.8
DD020479		0.010	1.64	2.47	112	0.23	63.7	3720	5.2
DD020480		0.016	0.15	0.88	37	0.14	10.30	310	0.6
DD020481		0.073	0.37	1.75	85	0.30	19.35	410	2.4
DD020482		0.025	1.09	4.44	83	0.39	32.4	1130	1.5
DD020483		0.006	1.55	13.25	87	0.22	181.0	4520	6.1
DD020484		0.005	0.23	4.41	44	0.07	27.7	295	3.7
DD020485		0.005	0.23	4.11	46	0.08	29.6	291	3.4
DD020486		0.005	0.24	1.96	30	0.11	30.0	222	2.1
DD020487		0.016	0.14	0.64	44	0.24	4.58	81	0.7
DD020488		0.014	0.12	0.59	30	0.10	4.90	77	<0.5
DD020489		0.039	0.17	0.60	71	0.20	4.94	87	<0.5
DD020490		0.026	0.19	1.57	58	0.28	13.60	116	<0.5
DD020491		0.022	0.15	1.14	51	0.24	29.5	136	1.1
DD020492		0.030	0.17	1.03	60	0.30	10.05	85	0.8
DD020493		0.034	0.16	0.81	58	0.23	14.45	83	1.0
DD020494		0.024	0.16	0.92	59	0.19	33.9	110	0.6
DD020495		0.024	0.13	0.84	42	0.20	28.4	114	1.3
DD020496		0.026	0.21	0.79	63	0.25	3.56	59	<0.5
DD020497		0.015	0.21	1.04	54	0.23	5.58	80	<0.5
DD020498		0.030	0.13	0.99	47	0.27	7.44	126	<0.5
DD020499		0.043	0.16	0.95	76	0.29	3.54	72	<0.5
DD020500		0.044	0.16	1.02	59	0.26	5.33	69	2.3



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Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149082**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12149083**

Project: ATAC- Regional Area F (Crag N)  
 P.O. No.: Soil 9  
 This report is for 234 Soil samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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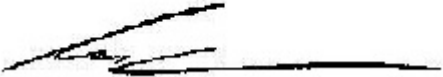
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66001		0.16	0.003	0.31	0.84	12.6	<0.2	<10	180	0.41	0.21	0.07	0.32	15.75	8.0	23
ZZ66002		0.20	0.002	0.16	0.55	6.9	<0.2	<10	70	0.13	0.25	0.02	0.16	19.00	2.7	14
ZZ66003		0.09	0.005	0.23	1.20	7.4	<0.2	<10	370	0.35	0.20	0.82	1.21	14.40	6.1	25
ZZ66004		0.17	0.002	0.07	0.45	19	<0.2	<10	60	0.42	0.07	16.50	0.75	8.94	3.6	9
ZZ66005		0.19	0.004	0.03	0.18	16	<0.2	<10	30	0.17	0.04	19.10	0.44	6.30	1.6	6
ZZ66006		0.20	0.014	0.04	0.24	15	<0.2	<10	40	0.26	0.05	18.85	0.43	5.53	1.7	6
ZZ66007		0.21	0.002	0.06	0.41	15	<0.2	<10	70	0.40	0.07	17.30	0.50	7.08	3.1	10
ZZ66008		0.16	0.002	0.05	0.38	19	<0.2	<10	50	0.40	0.06	16.20	0.61	7.49	2.9	10
ZZ66009		0.21	0.003	0.03	0.21	13	<0.2	<10	30	0.25	0.04	18.50	0.73	5.95	2.5	6
ZZ66010		0.26	0.002	0.16	0.47	19	<0.2	<10	90	0.43	0.07	16.45	0.51	6.44	3.1	10
ZZ66011		0.19	0.003	0.09	0.40	57	<0.2	<10	70	0.41	0.07	16.70	0.76	8.18	3.7	9
ZZ66012		0.18	0.003	0.12	0.57	50	<0.2	<10	90	0.55	0.08	18.05	2.17	8.53	4.6	13
ZZ66013		0.12	0.002	0.10	0.62	44	<0.2	10	90	0.47	0.10	14.15	0.85	10.70	4.6	12
ZZ66014		0.19	0.007	0.36	1.12	153	<0.2	10	220	1.04	0.17	13.80	2.09	14.80	9.1	22
ZZ66015		0.25	0.002	0.06	1.18	2150	<0.2	<10	140	1.84	0.21	13.80	1.29	19.55	14.0	38
ZZ66016		0.14	0.003	0.11	0.61	16	<0.2	10	90	0.45	0.09	13.65	0.51	10.70	4.0	11
ZZ66017		0.15	0.002	0.04	0.23	9	<0.2	<10	30	0.20	0.04	18.15	0.56	5.73	1.7	6
ZZ66018		0.14	0.002	0.04	0.38	10	<0.2	<10	40	0.31	0.05	17.60	1.06	6.76	3.4	8
ZZ66019		0.19	0.002	0.04	0.28	17	<0.2	<10	40	0.28	0.04	17.70	0.55	6.16	1.9	6
ZZ66020		0.18	0.003	0.05	0.30	9	<0.2	<10	40	0.29	0.06	17.15	0.69	6.00	2.1	7
ZZ66021		0.18	0.004	0.74	0.84	10.2	<0.2	<10	130	0.54	0.22	0.48	0.23	6.44	6.4	20
ZZ66022		0.16	0.003	0.44	0.99	35.7	<0.2	<10	270	1.19	0.17	0.10	1.43	22.6	11.8	132
ZZ66023		0.19	0.002	0.46	0.80	25.3	<0.2	<10	250	0.87	0.17	0.50	2.92	28.1	31.6	26
ZZ66024		0.14	0.003	0.79	0.39	18.2	<0.2	<10	180	0.37	0.14	0.70	0.65	23.8	4.0	18
ZZ66025		0.20	0.004	0.35	0.51	26	<0.2	<10	210	0.62	0.12	14.35	5.56	12.65	11.9	18
ZZ66026		0.14	0.004	0.44	0.67	20.4	<0.2	10	290	0.50	0.28	5.42	4.02	16.45	7.4	28
ZZ66027		0.20	0.002	0.32	0.39	24	<0.2	<10	340	0.42	0.14	11.15	2.61	11.60	6.6	18
ZZ66028		0.18	0.005	1.31	0.33	8.9	<0.2	<10	480	0.24	0.12	1.05	0.58	21.4	4.4	20
ZZ66029		0.22	0.005	0.78	0.58	15.2	<0.2	<10	130	0.23	0.24	0.04	0.36	15.15	3.6	20
ZZ66030		0.13	0.005	2.90	1.04	25.3	<0.2	<10	430	0.77	0.22	0.93	1.64	22.8	7.6	44
ZZ66031		0.15	0.006	3.74	0.61	19.1	<0.2	<10	480	0.53	0.16	1.09	1.37	21.6	5.3	30
ZZ66032		0.17	0.003	0.21	0.48	8	<0.2	<10	170	0.34	0.10	14.70	1.90	12.10	3.8	15
ZZ66033		0.18	0.002	0.22	0.66	8	<0.2	<10	150	0.36	0.11	12.70	1.82	14.45	4.0	18
ZZ66034		0.17	0.003	0.26	0.89	11.1	<0.2	<10	230	0.47	0.17	9.62	2.71	19.65	5.6	23
ZZ66035		0.16	0.002	0.12	0.22	4	<0.2	<10	130	0.14	0.06	16.35	1.29	5.97	1.7	8
ZZ66036		0.18	0.003	0.23	1.31	14.4	<0.2	<10	250	0.65	0.26	0.97	1.54	32.0	9.2	38
ZZ66037		0.14	0.003	0.20	0.44	19	<0.2	<10	170	0.24	0.10	15.35	1.54	9.04	2.9	12
ZZ66038		0.10	0.002	0.24	0.25	17	<0.2	<10	110	0.19	0.07	16.05	1.33	6.64	1.9	15
ZZ66039		0.17	0.004	0.82	0.62	32	<0.2	<10	260	0.58	0.10	11.30	2.35	13.35	5.8	26
ZZ66040		0.18	0.005	0.54	2.25	59.3	<0.2	<10	410	2.30	0.18	0.45	5.54	32.0	38.9	59

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 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66001		1.03	29.2	3.00	5.15	0.05	<0.02	0.06	0.019	0.04	9.3	1.9	0.06	72	10.55	<0.01
ZZ66002		1.62	13.2	1.31	4.63	<0.05	<0.02	0.04	0.007	0.05	10.0	0.9	0.03	48	3.13	<0.01
ZZ66003		1.04	13.5	2.27	3.95	<0.05	0.03	0.09	0.016	0.06	7.9	7.7	0.18	595	4.26	<0.01
ZZ66004		0.41	12.8	0.73	1.11	<0.05	0.05	0.13	0.006	0.05	5.1	4.3	9.06	141	0.71	0.02
ZZ66005		0.26	6.2	0.41	0.41	<0.05	0.02	0.07	<0.005	0.03	2.9	1.8	10.20	104	0.46	0.02
ZZ66006		0.28	5.9	0.43	0.52	<0.05	0.04	0.04	<0.005	0.03	2.5	2.3	10.70	107	0.44	0.03
ZZ66007		0.67	13.1	0.74	0.95	<0.05	0.06	0.08	<0.005	0.05	3.5	3.7	9.44	129	0.79	0.02
ZZ66008		0.49	11.4	0.71	0.86	<0.05	0.06	0.07	<0.005	0.04	3.7	3.5	9.24	116	0.69	0.02
ZZ66009		0.24	7.6	0.43	0.46	<0.05	0.04	0.09	<0.005	0.03	4.0	1.3	10.45	108	0.39	0.02
ZZ66010		0.41	11.9	0.77	1.06	<0.05	0.07	0.04	<0.005	0.06	3.3	3.8	9.22	171	1.10	0.02
ZZ66011		0.49	12.2	0.87	0.98	<0.05	0.04	0.03	<0.005	0.05	4.1	3.7	8.09	172	0.99	0.02
ZZ66012		0.72	21.7	0.92	1.24	<0.05	0.08	0.06	0.006	0.06	5.8	4.5	7.34	213	1.28	0.02
ZZ66013		0.48	13.8	1.19	1.50	<0.05	0.05	0.05	0.005	0.07	5.3	5.9	6.18	298	1.36	0.02
ZZ66014		2.64	48.5	2.07	2.88	0.05	0.05	0.09	0.022	0.11	9.4	10.5	3.29	155	3.01	0.01
ZZ66015		1.99	90.9	5.73	6.04	<0.05	0.11	0.25	0.033	0.11	13.6	5.4	0.30	131	2.13	0.01
ZZ66016		0.34	9.8	1.01	1.39	<0.05	0.04	0.05	0.006	0.05	4.8	5.6	7.24	208	0.84	0.02
ZZ66017		0.20	6.3	0.37	0.48	<0.05	0.04	0.04	<0.005	0.03	3.0	2.1	10.75	94	0.35	0.02
ZZ66018		0.38	10.5	0.55	0.85	<0.05	0.04	0.11	<0.005	0.03	3.3	3.0	10.05	150	0.52	0.02
ZZ66019		0.28	5.7	0.45	0.59	<0.05	0.03	0.04	<0.005	0.03	3.0	2.4	10.30	100	0.38	0.02
ZZ66020		0.28	7.0	0.53	0.64	<0.05	0.05	0.04	0.007	0.03	3.0	2.3	9.67	133	0.42	0.03
ZZ66021		12.00	57.3	3.75	1.83	<0.05	0.04	0.10	0.029	0.07	2.9	16.8	0.31	78	3.48	0.01
ZZ66022		4.04	27.6	11.65	1.82	0.11	0.02	0.06	0.026	0.05	22.4	5.2	0.13	211	2.44	<0.01
ZZ66023		6.93	33.7	3.28	1.97	0.11	0.08	0.12	0.029	0.13	29.1	9.9	0.11	777	1.18	<0.01
ZZ66024		1.35	15.0	2.06	1.14	0.06	0.06	0.08	0.021	0.05	13.7	3.0	0.11	393	5.79	<0.01
ZZ66025		0.88	12.9	1.45	1.51	0.05	0.07	0.06	0.018	0.04	17.7	4.4	7.52	900	0.86	0.02
ZZ66026		0.38	16.9	1.85	1.93	0.05	0.05	0.09	0.025	0.05	16.0	5.2	2.91	658	1.78	0.01
ZZ66027		2.42	20.5	1.61	1.25	0.05	0.03	0.10	0.017	0.05	13.0	3.8	6.24	492	2.04	0.01
ZZ66028		0.99	19.2	1.50	0.93	0.05	0.04	0.05	0.016	0.07	13.8	3.9	0.51	152	1.79	0.01
ZZ66029		1.41	22.9	2.16	3.65	<0.05	<0.02	0.09	0.015	0.07	9.0	2.4	0.05	276	3.59	<0.01
ZZ66030		1.32	66.1	3.55	1.89	0.08	0.15	0.19	0.042	0.18	12.9	8.3	0.21	496	5.67	0.01
ZZ66031		0.66	39.3	2.20	1.31	0.07	0.09	0.17	0.024	0.12	14.9	4.7	0.15	162	4.37	0.01
ZZ66032		0.57	8.7	1.04	1.30	0.06	0.04	0.05	0.011	0.03	12.1	4.5	8.23	412	0.53	0.02
ZZ66033		0.47	9.7	1.22	1.69	0.05	0.04	0.04	0.012	0.04	17.7	5.1	7.27	414	0.63	0.02
ZZ66034		0.71	13.8	1.74	2.16	0.05	0.04	0.05	0.018	0.04	21.9	6.0	5.44	823	0.84	0.02
ZZ66035		0.24	4.8	0.50	0.57	<0.05	0.03	0.03	0.007	0.02	9.2	1.4	9.52	384	0.15	0.02
ZZ66036		1.16	16.0	2.86	3.94	<0.05	0.03	0.06	0.027	0.06	15.6	11.1	0.47	802	1.34	0.01
ZZ66037		0.35	6.7	1.25	1.08	<0.05	0.03	0.02	0.012	0.03	11.8	2.7	8.60	732	0.58	0.02
ZZ66038		0.31	4.6	1.06	0.68	<0.05	0.04	0.02	0.008	0.02	10.6	2.0	9.33	515	0.35	0.02
ZZ66039		2.24	10.8	1.98	1.36	0.05	0.05	0.13	0.013	0.04	16.8	4.3	6.21	750	1.28	0.02
ZZ66040		7.21	59.7	8.25	2.15	0.15	0.10	0.17	0.027	0.06	36.9	21.2	0.10	769	2.37	<0.01

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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66001		0.85	93.8	680	12.8	6.6	0.001	0.04	1.04	2.6	3.5	0.8	48.6	<0.01	0.05	0.8
ZZ66002		0.56	21.4	400	7.7	10.0	0.001	0.03	0.70	0.8	1.2	0.9	8.1	<0.01	0.03	0.2
ZZ66003		0.69	30.4	1110	11.2	7.6	0.002	0.10	0.55	1.6	1.2	0.5	41.3	<0.01	0.04	0.4
ZZ66004		0.23	25.4	460	6.2	3.3	0.001	0.05	0.68	1.3	0.4	0.2	127.0	<0.01	0.02	0.5
ZZ66005		0.14	11.3	290	3.7	1.6	0.002	0.03	0.52	0.9	0.5	<0.2	129.5	<0.01	0.01	0.6
ZZ66006		0.17	10.3	380	3.6	2.2	0.001	0.05	0.49	0.7	0.2	0.2	130.5	<0.01	0.01	0.5
ZZ66007		0.24	23.8	470	5.9	3.6	0.001	0.05	0.81	1.0	0.4	0.2	119.5	<0.01	0.02	0.7
ZZ66008		0.21	23.1	490	5.1	3.1	0.002	0.05	0.88	1.1	0.6	0.2	112.0	<0.01	0.02	0.6
ZZ66009		0.16	16.6	330	3.6	1.7	0.001	0.04	0.68	0.6	0.2	0.2	101.5	<0.01	<0.01	0.4
ZZ66010		0.22	21.5	590	6.4	3.5	0.002	0.06	0.75	1.1	0.9	0.3	122.5	<0.01	0.03	0.6
ZZ66011		0.28	34.3	470	6.2	2.9	0.001	0.03	1.37	1.4	0.6	0.2	109.5	<0.01	0.04	1.0
ZZ66012		0.24	58.0	620	7.8	3.9	0.001	0.05	1.50	1.5	0.8	0.3	106.5	<0.01	0.04	0.5
ZZ66013		0.29	31.3	690	9.8	4.1	0.002	0.07	1.18	1.2	0.9	0.3	95.9	<0.01	0.01	0.6
ZZ66014		0.26	145.0	870	12.7	7.6	0.002	0.04	3.19	3.8	1.8	0.6	93.4	<0.01	0.08	2.7
ZZ66015		0.72	493	1640	20.7	6.4	0.002	0.07	48.9	3.1	0.7	0.8	80.1	<0.01	0.11	1.6
ZZ66016		0.35	16.6	650	6.2	4.2	0.001	0.06	0.71	1.2	0.4	0.2	109.0	<0.01	0.01	0.7
ZZ66017		0.16	8.8	340	2.9	2.0	0.003	0.04	0.37	0.7	0.5	<0.2	111.0	<0.01	0.01	0.4
ZZ66018		0.23	27.3	450	4.0	2.8	0.001	0.05	0.52	0.8	0.2	0.2	109.0	<0.01	0.03	0.2
ZZ66019		0.19	12.4	420	3.5	2.3	0.001	0.04	0.52	0.7	0.3	0.2	132.5	<0.01	0.01	0.3
ZZ66020		0.13	13.3	540	3.5	2.3	0.001	0.07	0.59	0.7	0.6	<0.2	124.5	<0.01	<0.01	0.4
ZZ66021		0.11	54.5	1050	14.6	10.3	0.002	0.10	0.92	4.2	2.6	0.2	45.3	<0.01	0.07	1.4
ZZ66022		0.20	125.0	2860	49.3	6.7	0.001	0.07	4.03	5.9	5.0	0.3	212	<0.01	0.06	0.9
ZZ66023		0.13	181.0	1920	19.2	12.9	<0.001	0.02	1.62	4.3	3.9	0.3	22.3	<0.01	0.11	3.0
ZZ66024		0.17	24.1	680	9.8	5.1	0.001	0.06	0.77	2.6	1.5	0.2	11.3	<0.01	0.04	1.0
ZZ66025		0.14	70.2	1100	24.9	4.1	0.001	0.06	2.27	2.0	1.6	0.2	130.0	<0.01	0.10	0.8
ZZ66026		0.15	27.1	1690	33.8	3.5	0.001	0.12	2.49	1.2	2.6	0.3	47.5	<0.01	0.17	0.4
ZZ66027		0.08	52.6	1220	73.8	5.0	0.001	0.03	3.61	3.1	1.3	0.2	109.5	<0.01	0.12	1.4
ZZ66028		0.18	36.2	930	6.7	4.6	0.002	0.05	1.18	2.1	1.9	0.2	31.8	<0.01	0.04	2.5
ZZ66029		0.25	28.1	1130	11.1	6.2	0.001	0.12	1.42	0.4	2.5	0.5	22.7	<0.01	0.08	<0.2
ZZ66030		0.19	109.0	2310	14.6	8.6	0.001	0.37	2.32	5.9	6.3	0.4	98.7	<0.01	0.21	3.0
ZZ66031		0.17	79.5	2210	10.0	6.4	0.001	0.19	1.97	2.5	5.8	0.4	112.5	<0.01	0.10	1.1
ZZ66032		0.22	22.6	810	7.1	2.9	<0.001	0.04	0.97	1.4	0.4	0.2	74.4	<0.01	0.06	0.8
ZZ66033		0.21	16.8	830	8.6	3.8	<0.001	0.07	0.73	1.3	1.3	0.2	67.1	<0.01	0.07	0.5
ZZ66034		0.22	21.7	1350	16.0	4.7	<0.001	0.10	1.18	1.2	1.5	0.3	47.8	<0.01	0.09	0.5
ZZ66035		0.06	9.2	840	4.2	1.7	<0.001	0.06	0.44	0.6	0.6	<0.2	59.2	<0.01	0.05	0.3
ZZ66036		0.58	25.7	1110	16.3	9.1	<0.001	0.10	1.46	2.0	0.9	0.4	14.5	<0.01	0.09	0.8
ZZ66037		0.12	10.5	1000	6.7	2.9	0.001	0.07	0.87	0.9	0.9	<0.2	90.7	<0.01	0.08	0.3
ZZ66038		0.11	8.7	520	4.7	2.1	<0.001	0.06	0.83	1.1	1.2	<0.2	205	<0.01	0.04	0.5
ZZ66039		0.15	38.4	1020	10.4	5.0	0.001	0.08	2.20	1.5	2.1	0.2	60.3	<0.01	0.07	0.6
ZZ66040		0.13	364	2280	29.2	9.7	0.001	0.05	3.44	4.9	6.6	0.3	32.2	0.01	0.12	2.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66001		0.020	0.19	2.14	70	0.18	14.10	338	<0.5
ZZ66002		0.022	0.18	0.74	51	0.19	3.01	78	<0.5
ZZ66003		0.016	0.14	1.52	49	0.16	7.59	116	0.6
ZZ66004		0.005	0.16	1.30	19	0.06	6.42	107	1.5
ZZ66005		<0.005	0.07	1.37	13	0.06	2.65	57	0.8
ZZ66006		<0.005	0.07	1.32	13	<0.05	2.36	53	1.3
ZZ66007		0.006	0.15	1.65	21	0.05	3.60	101	1.7
ZZ66008		0.005	0.13	1.44	19	0.05	3.88	121	1.7
ZZ66009		<0.005	0.08	0.99	15	<0.05	5.64	96	1.3
ZZ66010		0.006	0.12	1.11	22	0.07	4.56	125	2.2
ZZ66011		0.007	0.12	1.52	23	0.14	5.13	161	1.3
ZZ66012		0.006	0.22	1.54	31	0.13	13.25	288	2.2
ZZ66013		0.008	0.14	1.00	29	0.14	6.05	179	1.3
ZZ66014		<0.005	0.53	2.36	59	0.27	16.10	511	3.1
ZZ66015		0.011	0.30	2.97	243	3.82	22.8	1350	4.7
ZZ66016		0.011	0.08	1.91	27	0.09	4.43	77	1.3
ZZ66017		0.005	0.04	1.41	16	0.05	2.99	52	1.2
ZZ66018		0.006	0.11	1.15	18	0.05	5.12	122	1.2
ZZ66019		0.006	0.08	1.09	14	0.10	3.11	74	1.2
ZZ66020		0.007	0.10	1.27	15	0.05	3.13	88	1.5
ZZ66021		<0.005	0.19	1.27	22	<0.05	10.15	193	1.1
ZZ66022		0.011	0.34	2.95	100	0.07	61.9	1420	0.7
ZZ66023		<0.005	0.73	1.41	42	0.07	98.6	797	2.6
ZZ66024		0.008	0.24	4.35	23	0.05	22.4	101	1.7
ZZ66025		0.007	0.43	0.86	39	0.17	37.5	483	1.8
ZZ66026		0.006	0.18	1.35	52	0.10	30.3	335	1.3
ZZ66027		<0.005	0.61	0.95	32	0.08	27.3	639	1.5
ZZ66028		0.008	0.15	0.95	22	0.07	14.10	132	2.0
ZZ66029		0.011	0.23	1.81	49	0.16	5.84	108	<0.5
ZZ66030		0.007	0.41	6.04	64	0.09	43.3	308	4.2
ZZ66031		0.006	0.27	2.42	38	0.15	45.3	305	2.5
ZZ66032		0.010	0.10	0.72	32	0.07	18.75	135	1.1
ZZ66033		0.011	0.06	0.76	37	0.10	26.3	108	0.9
ZZ66034		0.012	0.12	0.70	45	0.10	32.4	256	0.9
ZZ66035		<0.005	0.06	0.56	17	<0.05	16.40	85	0.8
ZZ66036		0.022	0.18	0.82	61	0.15	15.65	169	0.6
ZZ66037		0.008	0.05	1.50	38	0.05	20.8	101	0.9
ZZ66038		0.006	0.04	0.70	37	0.05	17.70	57	1.0
ZZ66039		0.008	0.31	1.33	46	0.07	38.6	271	1.5
ZZ66040		<0.005	1.31	5.86	86	0.09	160.0	2150	2.5



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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66041		0.17	0.004	0.69	1.22	30.6	<0.2	<10	310	0.52	0.29	0.22	0.25	34.7	5.9	205
ZZ66042		0.17	0.004	0.52	1.16	21.0	<0.2	<10	330	0.50	0.26	0.09	0.22	21.9	4.6	151
ZZ66043		0.20	0.003	0.54	0.38	21.4	<0.2	<10	210	0.18	0.19	0.02	0.07	11.90	3.5	25
ZZ66044		0.16	0.010	0.82	0.40	11.7	<0.2	<10	100	0.25	0.18	0.04	0.11	4.69	1.8	14
ZZ66045		0.18	0.004	0.30	0.53	20.8	<0.2	<10	60	0.23	0.30	0.03	0.12	15.30	3.2	21
ZZ66046		0.20	0.003	1.13	0.38	25.1	<0.2	<10	250	0.45	0.16	0.14	0.44	20.4	2.6	90
ZZ66047		0.11	0.003	1.31	1.22	45.9	<0.2	<10	230	1.33	0.17	4.33	11.45	23.9	35.2	40
ZZ66048		0.18	0.002	0.15	0.16	11	<0.2	<10	90	0.16	0.06	16.75	2.68	5.85	2.0	12
ZZ66049		0.20	0.001	0.11	0.12	8	<0.2	<10	50	0.13	0.05	16.05	3.47	3.74	1.6	10
ZZ66050		0.15	0.003	0.67	0.45	33.0	<0.2	<10	260	0.21	0.11	2.21	1.80	11.35	6.0	17
ZZ66051		0.19	0.004	1.43	0.97	9.8	<0.2	<10	390	0.47	0.20	1.18	1.01	11.80	4.6	40
ZZ66052		0.29	0.004	2.15	0.56	17.6	<0.2	<10	380	0.28	0.16	0.23	0.83	15.55	5.3	26
ZZ66053		0.15	0.002	0.73	1.15	10.6	<0.2	<10	620	0.42	0.26	0.23	1.13	17.85	6.9	29
ZZ66054		0.17	0.004	1.14	1.09	11.0	<0.2	<10	730	0.55	0.17	2.00	0.52	18.15	5.8	31
ZZ66055		0.13	0.004	1.17	1.14	11.7	<0.2	<10	540	0.63	0.20	1.76	1.00	18.80	6.3	30
ZZ66056		0.15	0.003	0.87	1.07	14.4	<0.2	<10	470	0.61	0.16	1.25	0.66	19.85	7.4	28
ZZ66057		0.21	0.010	0.92	1.01	13.0	<0.2	<10	410	0.59	0.15	2.29	0.63	18.70	6.2	26
ZZ66058		0.26	0.003	0.74	0.50	11.9	<0.2	<10	420	0.29	0.14	1.61	0.41	13.50	1.9	23
ZZ66059		0.23	0.003	2.91	1.26	11.4	<0.2	<10	610	0.49	0.17	0.68	0.87	16.90	6.1	26
ZZ66060		0.17	0.006	0.85	1.00	19.9	<0.2	10	1090	0.59	0.13	3.11	0.59	14.40	7.3	21
ZZ66061		0.20	0.004	1.12	0.93	13.9	<0.2	<10	710	0.53	0.14	1.92	0.48	20.1	6.6	26
ZZ66062		0.21	0.002	0.66	1.20	9.9	<0.2	<10	820	0.60	0.15	2.05	0.80	16.20	7.4	21
ZZ66063		0.17	0.003	0.76	0.80	9.2	<0.2	10	470	0.47	0.11	2.52	0.62	12.60	5.3	17
ZZ66064		0.15	0.005	1.00	0.69	10.8	<0.2	10	520	0.43	0.10	2.48	0.88	11.50	4.7	17
ZZ66065		0.13	0.003	0.77	0.79	8.2	<0.2	10	430	0.45	0.13	1.92	0.60	14.60	5.2	17
ZZ66066		0.16	0.004	0.95	0.72	8.9	<0.2	<10	490	0.44	0.11	2.12	0.53	15.50	5.3	17
ZZ66067		0.11	0.012	0.90	0.65	6.4	<0.2	10	290	0.35	0.09	2.72	1.66	10.55	3.2	14
ZZ66068		0.15	0.015	0.58	1.11	8.8	<0.2	<10	620	0.83	0.19	1.19	0.86	14.30	8.5	22
ZZ66069		0.08	0.004	0.26	1.15	10.3	<0.2	10	500	0.96	0.21	1.96	0.48	19.85	13.0	27
ZZ66070		0.08	0.014	0.33	0.78	5.8	<0.2	10	500	0.60	0.16	1.74	0.34	11.55	7.7	12
ZZ66071		0.11	0.008	0.23	0.62	1.2	<0.2	10	500	0.33	0.04	4.55	0.51	9.08	7.7	29
ZZ66072		0.21	0.016	0.91	1.01	8.2	<0.2	10	520	0.72	0.18	1.52	0.53	22.3	7.4	20
ZZ66073		0.13	0.015	0.97	1.07	15.8	<0.2	10	680	0.68	0.16	1.66	0.69	18.75	6.5	21
ZZ66074		0.30	0.009	0.37	1.00	6.6	<0.2	10	590	0.65	0.18	1.30	0.37	17.95	9.8	19
ZZ66075		0.17	0.007	0.36	1.14	6.7	<0.2	10	730	0.71	0.15	1.46	0.73	17.50	16.3	34
ZZ66076		0.22	0.002	0.33	1.33	7.9	<0.2	10	700	0.64	0.13	1.96	0.82	16.95	13.1	49
ZZ66077		0.13	0.005	0.30	0.80	6.9	<0.2	10	760	0.42	0.11	2.77	0.76	9.90	5.5	14
ZZ66078		0.12	0.004	0.36	0.91	8.9	<0.2	10	840	0.47	0.12	2.95	2.27	12.25	6.9	15
ZZ66079		0.14	0.004	0.64	0.87	11.8	<0.2	<10	530	0.59	0.13	3.10	7.61	14.65	7.4	16
ZZ66080		0.19	0.003	2.31	0.77	49.1	<0.2	<10	790	1.03	0.17	3.76	26.3	26.1	6.2	40





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66041		3.81	16.7	3.96	4.97	0.09	<0.02	0.07	0.040	0.17	31.3	13.9	0.31	225	1.64	0.01
ZZ66042		2.88	18.5	3.48	6.23	0.07	<0.02	0.09	0.030	0.13	19.9	9.4	0.17	211	1.89	<0.01
ZZ66043		3.08	14.7	2.85	2.04	<0.05	<0.02	0.04	0.020	0.09	6.6	1.5	0.04	54	4.63	<0.01
ZZ66044		3.65	17.9	1.84	1.43	<0.05	0.02	0.08	0.018	0.08	2.0	2.8	0.04	194	2.04	<0.01
ZZ66045		3.87	21.2	2.62	4.82	<0.05	<0.02	0.04	0.023	0.04	7.6	1.9	0.06	104	2.42	<0.01
ZZ66046		3.19	17.9	1.47	1.52	0.09	0.02	0.03	0.025	0.10	21.1	1.7	0.04	87	1.22	<0.01
ZZ66047		2.86	42.7	4.87	1.60	0.10	0.12	0.23	0.024	0.06	24.9	6.7	2.16	1380	2.44	0.01
ZZ66048		0.79	7.4	0.74	0.60	<0.05	0.02	0.03	0.007	0.03	8.4	1.7	10.05	351	0.35	0.02
ZZ66049		0.51	5.9	0.56	0.37	<0.05	0.03	0.04	0.006	0.02	5.5	1.1	10.10	411	0.19	0.02
ZZ66050		0.82	25.6	3.37	0.90	0.05	0.11	0.09	0.018	0.08	5.8	2.5	0.07	227	2.92	0.01
ZZ66051		1.23	31.0	2.30	2.38	0.06	0.09	0.18	0.025	0.07	9.1	16.7	0.26	165	1.49	0.01
ZZ66052		0.51	26.4	1.84	1.78	0.05	0.02	0.07	0.021	0.05	13.5	7.8	0.14	109	11.25	<0.01
ZZ66053		0.84	18.5	2.82	4.49	<0.05	<0.02	0.04	0.027	0.10	9.9	9.6	0.16	431	3.52	0.01
ZZ66054		0.89	24.8	2.07	3.04	0.05	0.04	0.10	0.025	0.05	13.1	10.6	0.26	213	1.55	0.01
ZZ66055		1.29	28.6	2.22	2.84	0.06	0.06	0.13	0.024	0.06	12.8	8.5	0.32	280	1.98	0.01
ZZ66056		1.47	25.9	2.50	2.66	0.06	0.08	0.12	0.031	0.07	13.5	9.6	0.25	221	2.24	0.02
ZZ66057		1.11	19.1	2.03	2.58	0.05	0.06	0.10	0.025	0.06	15.1	8.7	0.25	224	1.28	0.02
ZZ66058		0.67	10.2	1.48	1.49	<0.05	0.04	0.06	0.015	0.06	13.3	4.5	0.09	109	1.12	0.02
ZZ66059		0.82	22.1	2.00	4.07	<0.05	0.04	0.11	0.026	0.04	11.1	10.0	0.30	151	3.97	0.02
ZZ66060		0.68	38.0	1.76	2.45	<0.05	0.06	0.17	0.020	0.04	9.1	7.4	0.26	1020	0.75	0.03
ZZ66061		0.67	23.8	2.05	2.39	<0.05	0.06	0.11	0.027	0.05	13.7	9.2	0.46	295	1.64	0.02
ZZ66062		0.62	19.0	2.20	2.92	<0.05	0.06	0.12	0.024	0.05	9.4	12.2	0.32	424	1.09	0.02
ZZ66063		0.74	22.2	1.59	2.01	<0.05	0.06	0.12	0.021	0.05	9.5	8.3	0.27	227	1.21	0.02
ZZ66064		0.74	23.6	1.43	1.81	<0.05	0.06	0.10	0.021	0.04	9.0	7.1	0.28	189	1.13	0.02
ZZ66065		0.58	20.6	1.57	2.12	<0.05	0.06	0.11	0.023	0.06	9.4	8.9	0.27	215	1.16	0.02
ZZ66066		0.79	30.4	1.59	1.93	<0.05	0.06	0.14	0.023	0.06	10.9	8.9	0.25	151	1.32	0.02
ZZ66067		0.76	21.9	1.18	1.67	<0.05	0.06	0.15	0.019	0.05	8.7	5.7	0.21	91	2.30	0.02
ZZ66068		0.55	102.5	2.36	3.40	<0.05	0.07	0.12	0.031	0.13	8.2	15.8	0.31	345	2.26	0.02
ZZ66069		0.63	22.7	3.20	3.32	<0.05	0.06	0.11	0.031	0.06	9.8	14.7	0.72	946	1.15	0.02
ZZ66070		0.73	91.9	2.11	2.54	<0.05	0.08	0.08	0.024	0.12	6.6	12.0	0.38	283	1.46	0.02
ZZ66071		0.52	47.4	1.12	2.06	<0.05	0.04	0.13	0.015	0.04	5.8	10.1	0.74	520	0.45	0.03
ZZ66072		0.91	144.0	2.15	3.55	0.05	0.10	0.20	0.033	0.20	12.9	12.0	0.25	374	4.41	0.01
ZZ66073		0.72	82.7	2.03	3.15	<0.05	0.09	0.23	0.026	0.11	11.6	14.1	0.30	235	3.32	0.02
ZZ66074		0.82	65.9	2.60	3.09	0.05	0.09	0.12	0.032	0.13	9.4	12.5	0.34	699	2.35	0.02
ZZ66075		0.72	45.7	2.60	3.37	0.05	0.08	0.19	0.029	0.08	10.4	13.2	0.44	1420	2.12	0.02
ZZ66076		0.80	30.1	2.65	3.48	<0.05	0.07	0.17	0.026	0.09	10.4	21.7	0.95	442	1.32	0.02
ZZ66077		0.71	23.1	1.55	2.02	<0.05	0.06	0.14	0.018	0.05	6.6	9.0	0.37	401	1.02	0.02
ZZ66078		0.62	18.3	1.63	2.49	<0.05	0.05	0.09	0.019	0.05	6.6	10.5	0.30	624	2.14	0.03
ZZ66079		0.46	26.5	1.62	2.31	<0.05	0.06	0.19	0.021	0.04	8.3	9.4	0.26	696	6.67	0.02
ZZ66080		0.26	128.0	1.73	2.85	0.10	0.08	0.43	0.032	0.09	17.3	6.8	0.43	202	49.9	0.02

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66041		0.39	20.0	3010	15.2	16.5	0.002	0.31	1.90	1.8	3.3	0.5	63.7	<0.01	0.19	0.5
ZZ66042		0.43	18.2	1470	16.3	11.4	0.001	0.24	1.55	0.7	1.4	0.6	58.8	<0.01	0.11	<0.2
ZZ66043		0.20	18.8	790	12.0	9.8	0.002	0.14	0.83	1.1	2.1	0.3	24.3	<0.01	0.07	0.8
ZZ66044		0.10	8.8	650	12.5	11.4	0.003	0.14	0.84	1.3	1.7	0.2	9.0	<0.01	0.06	0.9
ZZ66045		0.52	13.8	750	14.5	7.9	0.001	0.06	1.40	0.7	1.8	0.6	7.3	<0.01	0.06	0.2
ZZ66046		0.05	13.2	1180	10.5	8.2	0.003	0.15	1.34	1.8	2.0	0.3	65.8	<0.01	0.13	2.3
ZZ66047		0.11	200	1980	110.5	5.9	<0.001	0.07	6.73	3.8	4.3	0.3	31.1	<0.01	0.19	2.0
ZZ66048		0.05	16.3	820	12.3	2.5	<0.001	0.03	2.18	1.3	0.4	<0.2	87.6	<0.01	0.08	0.9
ZZ66049		<0.05	11.1	570	9.8	1.6	0.001	0.04	1.74	1.2	0.4	<0.2	53.2	<0.01	0.04	0.5
ZZ66050		0.06	65.9	1050	10.7	4.1	<0.001	0.15	2.84	3.3	3.0	0.2	38.8	<0.01	0.09	0.9
ZZ66051		0.23	40.6	1190	11.4	7.1	0.001	0.08	0.87	2.0	2.4	0.3	47.0	<0.01	0.06	1.0
ZZ66052		0.23	80.7	970	10.1	5.8	0.002	0.02	2.00	2.1	5.0	0.4	34.1	<0.01	0.03	1.6
ZZ66053		0.57	33.4	970	14.1	10.1	0.001	0.06	1.04	1.5	1.0	0.6	36.9	<0.01	0.04	0.5
ZZ66054		0.48	38.1	1050	11.2	5.8	<0.001	0.09	1.03	2.3	1.8	0.4	52.8	<0.01	0.04	0.7
ZZ66055		0.44	45.5	1270	11.3	7.5	0.002	0.10	1.22	2.5	3.1	0.4	77.3	<0.01	0.06	0.7
ZZ66056		0.44	50.3	1170	11.2	8.8	0.001	0.11	1.35	3.5	2.7	0.4	65.4	0.01	0.07	1.0
ZZ66057		0.41	39.5	1070	9.8	6.7	<0.001	0.11	0.82	2.8	1.7	0.3	44.6	0.01	0.06	0.6
ZZ66058		0.15	15.0	850	9.1	6.1	0.001	0.07	0.78	1.7	1.6	0.3	33.9	<0.01	0.06	0.6
ZZ66059		0.74	35.8	900	10.6	5.1	0.001	0.06	0.78	2.5	2.9	0.5	32.9	0.01	0.05	0.7
ZZ66060		0.38	32.3	1440	8.9	5.5	0.004	0.16	1.28	1.5	3.7	0.3	65.0	0.01	0.07	0.3
ZZ66061		0.38	34.5	950	10.9	5.5	0.002	0.06	1.09	3.0	2.2	0.3	42.2	0.01	0.07	0.9
ZZ66062		0.42	23.9	850	13.0	5.9	0.001	0.08	0.61	2.5	1.6	0.3	44.1	0.01	0.05	0.7
ZZ66063		0.34	28.4	790	8.5	5.8	0.001	0.11	0.77	2.1	2.6	0.3	50.4	<0.01	0.06	0.5
ZZ66064		0.31	30.3	650	8.5	5.2	0.001	0.10	0.78	2.0	2.6	0.3	48.4	0.01	0.06	0.5
ZZ66065		0.34	27.8	590	8.7	5.8	0.002	0.09	0.66	2.4	2.2	0.3	40.6	0.01	0.05	0.6
ZZ66066		0.27	37.8	690	8.2	5.9	0.002	0.07	0.78	2.3	2.9	0.2	45.2	0.01	0.05	0.6
ZZ66067		0.34	24.6	630	6.6	5.2	0.003	0.12	0.61	2.2	2.8	0.3	57.9	0.01	0.05	0.5
ZZ66068		0.37	34.1	1830	14.5	10.1	0.001	0.02	1.10	4.7	1.5	0.5	61.4	<0.01	0.05	2.2
ZZ66069		0.47	40.6	430	32.8	6.6	0.001	0.04	0.69	4.3	1.1	0.5	46.3	<0.01	0.03	1.8
ZZ66070		0.33	22.6	710	17.7	11.0	0.001	0.06	0.56	3.0	1.6	0.4	68.6	<0.01	0.04	1.2
ZZ66071		0.18	22.5	820	4.2	3.2	0.003	0.17	0.39	2.8	3.2	0.2	215	0.01	0.02	0.2
ZZ66072		0.26	40.0	3860	9.3	14.6	0.003	0.03	1.55	4.5	2.5	0.5	92.9	0.01	0.07	2.5
ZZ66073		0.39	27.3	2590	13.1	10.8	0.002	0.05	3.12	3.6	2.9	0.4	75.3	0.01	0.08	2.1
ZZ66074		0.44	30.5	1270	20.6	12.2	0.001	0.03	0.57	3.8	1.5	0.5	47.3	<0.01	0.05	1.8
ZZ66075		0.36	55.0	1030	14.1	8.6	0.002	0.07	0.65	3.9	2.6	0.4	64.4	<0.01	0.05	1.3
ZZ66076		0.31	68.8	870	16.7	7.3	0.003	0.07	0.58	3.9	1.6	0.3	50.7	<0.01	0.04	1.3
ZZ66077		0.28	25.4	950	13.2	7.6	0.003	0.15	0.66	1.9	1.5	0.2	84.7	<0.01	0.04	0.6
ZZ66078		0.38	22.9	900	9.7	6.3	0.002	0.13	0.94	1.6	1.6	0.3	80.4	<0.01	0.05	0.4
ZZ66079		0.33	45.6	1420	11.2	5.8	0.005	0.14	2.64	1.5	4.1	0.3	112.5	0.01	0.07	0.5
ZZ66080		0.27	216	1100	12.5	7.1	0.006	0.07	17.65	3.3	12.0	0.8	147.0	0.01	0.14	0.8

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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66041		0.024	0.29	1.31	103	0.35	8.85	91	<0.5
ZZ66042		0.021	0.35	1.47	86	0.25	6.51	99	<0.5
ZZ66043		0.007	0.15	0.72	23	0.07	4.33	90	<0.5
ZZ66044		<0.005	0.22	0.59	17	<0.05	2.82	58	0.7
ZZ66045		0.031	0.16	0.63	52	0.21	2.15	68	<0.5
ZZ66046		<0.005	0.22	2.40	32	<0.05	9.91	79	0.5
ZZ66047		<0.005	0.85	1.89	56	0.06	121.0	2090	3.3
ZZ66048		<0.005	0.24	0.63	22	<0.05	19.20	343	0.9
ZZ66049		<0.005	0.25	0.57	18	<0.05	14.55	356	0.6
ZZ66050		<0.005	0.51	0.90	30	<0.05	19.85	211	3.0
ZZ66051		0.006	0.16	1.70	32	0.06	17.80	205	2.2
ZZ66052		0.006	0.29	2.83	42	0.19	8.92	259	0.7
ZZ66053		0.014	0.20	1.11	62	0.19	4.87	210	<0.5
ZZ66054		0.010	0.12	4.27	44	0.15	20.3	111	1.3
ZZ66055		0.012	0.17	2.28	43	0.12	28.7	144	1.5
ZZ66056		0.013	0.17	1.61	41	0.15	24.4	165	1.7
ZZ66057		0.011	0.15	1.29	38	0.14	21.0	138	1.3
ZZ66058		<0.005	0.10	1.27	37	0.06	16.40	53	1.1
ZZ66059		0.015	0.18	3.55	60	0.32	16.00	147	0.8
ZZ66060		0.008	0.17	5.76	52	0.14	19.65	74	1.3
ZZ66061		0.010	0.12	1.63	43	0.14	17.55	112	1.3
ZZ66062		0.010	0.07	1.39	38	0.11	10.70	116	1.3
ZZ66063		0.008	0.12	1.87	28	0.07	14.90	84	1.6
ZZ66064		0.007	0.14	1.88	29	0.08	15.20	78	1.6
ZZ66065		0.008	0.13	1.26	31	0.10	11.95	90	1.4
ZZ66066		0.007	0.14	1.79	26	0.11	16.20	94	1.5
ZZ66067		0.008	0.11	1.20	24	0.10	14.15	104	1.9
ZZ66068		0.007	0.13	1.35	48	0.13	9.79	242	1.7
ZZ66069		0.007	0.10	1.15	32	0.12	10.30	204	1.6
ZZ66070		0.007	0.09	0.64	23	0.08	7.56	122	2.2
ZZ66071		0.006	0.06	3.84	18	<0.05	9.90	46	1.1
ZZ66072		0.008	0.18	1.89	47	0.06	15.90	181	2.4
ZZ66073		0.007	0.16	2.97	80	0.14	15.25	160	2.7
ZZ66074		0.008	0.14	0.85	32	0.10	10.35	187	2.8
ZZ66075		0.006	0.12	1.52	38	0.08	11.90	117	2.1
ZZ66076		0.006	0.11	1.24	38	0.07	11.25	143	1.6
ZZ66077		0.006	0.09	2.01	22	0.10	8.88	115	1.8
ZZ66078		0.008	0.10	2.57	34	0.12	7.04	141	1.4
ZZ66079		0.008	0.30	3.83	95	0.12	10.70	264	1.7
ZZ66080		0.008	1.22	7.27	515	0.42	33.6	1200	2.7



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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66081		0.11	0.003	0.76	1.42	59.0	<0.2	<10	1900	1.17	0.17	1.73	11.30	39.1	16.4	38
ZZ66082		0.34	0.007	3.43	0.83	106.5	<0.2	10	1410	1.24	0.22	4.78	51.9	43.8	8.3	50
ZZ66083		0.29	0.011	2.68	0.92	59.8	<0.2	10	1730	1.04	0.22	1.33	19.35	38.8	7.6	42
ZZ66084		0.12	0.005	1.87	0.85	32.6	<0.2	10	840	0.93	0.15	2.38	13.55	30.5	6.8	38
ZZ66085		0.10	0.001	0.04	2.39	4.0	<0.2	<10	310	0.41	0.09	0.10	0.25	12.60	19.3	121
ZZ66086		0.17	0.007	0.90	0.96	13.1	<0.2	10	740	0.95	0.17	1.43	0.88	24.1	12.6	26
ZZ66087		0.23	0.004	0.75	1.42	18.2	<0.2	10	1580	1.10	0.17	1.96	0.86	25.4	9.7	30
ZZ66088		0.18	0.008	0.53	0.70	13.8	<0.2	10	680	0.65	0.11	3.30	2.30	19.95	8.9	17
ZZ66089		0.18	0.005	0.64	0.61	25.8	<0.2	10	620	0.75	0.17	3.72	5.37	32.8	9.5	20
ZZ66090		0.12	0.005	1.26	0.70	14.4	<0.2	10	760	0.56	0.13	2.68	3.85	17.90	6.1	24
DD027111		0.13	0.004	2.18	0.31	13.8	<0.2	<10	420	0.27	0.14	1.40	0.64	17.10	2.4	15
DD027112		0.20	0.005	1.51	0.49	11.8	<0.2	<10	330	0.28	0.13	2.29	1.10	18.15	3.7	17
DD027113		0.19	0.031	0.45	0.78	11.6	<0.2	<10	420	0.35	0.15	1.70	0.89	19.95	5.4	19
DD027134		0.13	0.004	0.61	0.66	10.8	<0.2	<10	250	0.28	0.13	0.86	0.52	20.9	5.4	17
DD027135		0.17	0.003	1.11	0.46	15.6	<0.2	<10	120	0.25	0.14	0.53	0.58	25.7	5.2	15
DD027136		0.20	0.004	0.74	0.83	30.4	<0.2	<10	240	0.43	0.18	0.60	2.74	23.5	7.6	23
DD027137		0.17	0.003	0.31	0.78	15.8	<0.2	<10	230	0.38	0.14	1.05	1.47	19.55	5.8	18
DD027138		0.13	0.003	0.46	0.52	16.8	<0.2	10	140	0.28	0.10	1.73	1.86	16.10	4.0	17
DD027139		0.13	0.004	0.95	0.75	24.6	<0.2	<10	1290	0.42	0.22	0.52	1.26	22.4	6.5	37
DD027140		0.17	0.003	0.79	0.39	20.3	<0.2	<10	640	0.50	0.10	0.22	2.90	8.16	13.9	17
DD027141		0.17	0.003	0.55	1.51	14.8	<0.2	<10	1320	0.57	0.25	0.23	1.55	25.7	6.7	27
DD027142		0.15	0.002	0.63	0.66	17.9	<0.2	<10	190	0.69	0.19	0.04	1.10	20.5	7.6	30
DD027143		0.12	0.003	2.05	1.14	36.1	<0.2	<10	400	1.70	0.19	0.50	25.8	26.7	10.7	132
DD027144		0.33	0.004	0.22	1.17	17.6	<0.2	<10	140	0.42	0.24	0.08	0.35	17.40	6.7	24
DD027145		0.16	0.001	0.18	0.62	18.7	<0.2	<10	50	0.18	0.24	0.04	0.17	8.54	4.4	17
DD026671		0.25	0.006	0.13	1.43	18.4	<0.2	<10	140	0.69	0.21	1.84	1.00	25.3	8.7	26
DD026672		0.29	0.006	0.19	1.60	26.7	<0.2	<10	170	0.74	0.22	1.44	1.51	35.0	10.2	31
DD026673		0.31	0.004	0.19	1.58	23.6	<0.2	<10	180	0.61	0.24	2.38	1.44	27.3	10.7	27
DD026674		0.24	0.005	0.12	1.16	13.2	<0.2	<10	120	0.54	0.17	4.49	0.95	17.30	6.4	19
DD026675		0.28	0.003	0.17	1.67	65.5	<0.2	<10	300	1.30	0.26	1.64	5.46	25.2	26.2	30
DD026676		0.32	0.003	0.12	0.84	96	<0.2	<10	90	0.61	0.12	15.00	0.88	13.90	5.9	16
DD026677		0.23	0.003	0.20	1.81	66.2	<0.2	<10	200	1.03	0.25	2.98	3.71	24.5	11.9	28
DD026678		0.28	0.003	0.14	1.02	30.3	<0.2	<10	100	0.52	0.16	8.25	1.01	18.65	7.4	18
DD026679		0.35	0.003	0.13	0.87	31	<0.2	<10	90	0.56	0.13	18.35	1.46	12.60	6.2	15
DD026680		0.23	0.004	0.11	0.66	15	<0.2	<10	110	0.36	0.11	13.40	1.06	11.05	4.6	13
DD026682		0.20	0.004	0.16	1.17	21.7	<0.2	<10	110	0.66	0.21	2.55	2.00	22.1	8.5	24
DD026683		0.23	0.006	0.18	1.19	32.8	<0.2	<10	120	0.79	0.21	3.40	2.29	21.9	8.9	26
DD026684		0.21	0.010	0.20	1.34	24.4	<0.2	<10	150	0.82	0.22	4.28	8.25	24.7	8.5	25
DD026685		0.29	0.006	0.22	1.29	20.8	<0.2	10	140	0.76	0.21	3.81	4.75	20.6	8.0	24
DD026686		0.26	0.002	0.12	0.44	17	<0.2	<10	60	0.47	0.08	16.95	2.29	8.78	3.9	10

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ZZ66081	0.15	86.2	3.70	3.91	0.13	0.10	0.17	0.048	0.09	26.4	10.3	0.26	321	81.2	0.03	
ZZ66082	0.37	232	2.28	3.64	0.16	0.26	1.10	0.046	0.14	31.1	8.1	0.38	170	103.5	0.03	
ZZ66083	0.38	129.0	2.50	3.05	0.11	0.15	0.74	0.042	0.12	26.1	9.6	0.27	205	56.5	0.03	
ZZ66084	0.48	90.4	1.76	3.09	0.09	0.10	0.35	0.029	0.09	20.8	9.6	0.45	220	12.35	0.02	
ZZ66085	1.04	43.1	4.37	10.25	<0.05	0.04	0.02	0.040	0.03	6.8	45.2	1.71	262	1.38	0.01	
ZZ66086	0.73	76.1	3.07	2.77	0.07	0.11	0.24	0.040	0.13	17.0	11.4	0.31	344	5.33	0.02	
ZZ66087	0.83	51.1	2.95	3.58	0.08	0.12	0.25	0.036	0.09	19.4	14.2	0.57	232	15.85	0.03	
ZZ66088	0.61	60.2	2.11	2.03	<0.05	0.08	0.19	0.028	0.10	12.6	8.4	0.91	349	9.60	0.02	
ZZ66089	0.49	64.6	2.14	2.13	0.07	0.13	0.29	0.034	0.10	22.0	7.9	1.29	232	36.0	0.02	
ZZ66090	0.58	54.7	4.61	2.04	0.08	0.09	0.25	0.022	0.07	12.0	8.2	0.49	117	6.11	0.02	
DD027111	0.62	28.3	1.57	1.04	<0.05	0.05	0.16	0.026	0.08	14.6	3.7	0.08	61	4.10	0.02	
DD027112	0.73	21.4	1.53	1.36	0.06	0.03	0.12	0.020	0.06	16.0	4.4	0.13	157	2.51	<0.01	
DD027113	0.53	15.8	1.81	1.97	<0.05	0.04	0.06	0.015	0.04	13.4	6.4	0.21	309	1.40	0.01	
DD027134	0.73	18.9	1.79	1.68	<0.05	0.04	0.08	0.015	0.04	12.5	5.2	0.17	214	1.83	0.01	
DD027135	1.38	21.3	1.86	1.27	0.05	0.05	0.11	0.022	0.05	14.6	4.0	0.12	138	1.30	<0.01	
DD027136	0.74	23.6	3.03	2.28	0.05	0.06	0.69	0.028	0.06	14.1	7.8	0.26	277	2.10	0.01	
DD027137	0.66	13.5	1.83	2.20	<0.05	0.03	0.10	0.015	0.05	10.0	6.2	0.18	398	1.20	0.01	
DD027138	1.14	13.0	1.64	1.33	<0.05	0.06	0.11	0.019	0.05	9.4	3.8	0.11	289	1.19	0.01	
DD027139	4.28	35.2	3.44	2.56	0.05	0.03	0.13	0.031	0.07	14.7	5.8	0.14	222	4.07	0.01	
DD027140	3.10	34.5	1.48	0.71	<0.05	0.04	0.79	0.018	0.03	7.2	1.7	0.04	240	4.54	<0.01	
DD027141	2.60	19.1	2.58	4.33	<0.05	<0.02	0.09	0.023	0.06	13.5	10.4	0.26	239	2.38	0.01	
DD027142	10.00	33.3	3.08	2.53	<0.05	<0.02	0.10	0.035	0.08	11.6	3.0	0.07	223	3.37	<0.01	
DD027143	10.45	39.4	5.62	2.38	0.09	0.05	0.19	0.048	0.09	20.8	5.1	0.16	739	1.30	0.01	
DD027144	3.46	22.6	2.97	2.99	<0.05	<0.02	0.08	0.027	0.05	8.6	9.9	0.26	199	1.92	<0.01	
DD027145	3.10	23.2	2.20	3.11	<0.05	<0.02	0.08	0.026	0.04	4.7	9.8	0.14	141	2.00	<0.01	
DD026671	1.01	22.9	2.36	3.76	<0.05	0.03	0.13	0.023	0.05	17.0	9.8	0.34	561	0.94	0.01	
DD026672	0.94	24.3	2.96	4.12	0.06	0.04	0.16	0.022	0.05	21.8	12.2	0.46	438	1.31	0.02	
DD026673	0.79	23.1	2.80	3.69	<0.05	0.03	0.08	0.025	0.06	14.9	10.9	0.42	700	1.55	0.02	
DD026674	0.61	16.6	1.83	2.69	<0.05	0.03	0.06	0.022	0.05	13.2	7.0	0.28	473	0.79	0.02	
DD026675	0.77	42.5	4.05	4.74	0.07	0.17	0.09	0.045	0.11	16.1	14.1	0.47	1420	1.35	0.01	
DD026676	0.98	16.9	1.49	1.90	<0.05	0.04	0.09	0.016	0.05	7.9	5.6	3.84	298	0.81	0.02	
DD026677	1.32	27.2	2.74	4.26	0.05	0.03	0.14	0.029	0.06	14.5	9.1	0.33	1490	1.15	0.01	
DD026678	0.51	16.3	1.84	2.51	<0.05	0.03	0.09	0.017	0.05	10.2	8.0	4.82	371	0.92	0.01	
DD026679	0.74	15.9	1.39	1.87	<0.05	0.03	0.08	0.017	0.05	7.0	5.9	0.49	475	0.90	0.01	
DD026680	0.50	12.2	1.15	1.55	<0.05	<0.02	0.12	0.014	0.04	8.0	5.1	0.18	520	0.76	0.01	
DD026682	0.62	19.8	2.35	2.86	0.05	0.03	0.11	0.023	0.05	17.0	8.0	0.30	595	1.42	0.01	
DD026683	0.60	21.0	2.19	2.69	0.05	0.02	0.09	0.025	0.05	18.6	7.3	0.31	650	1.20	0.01	
DD026684	0.72	23.0	1.99	2.61	<0.05	0.03	0.18	0.025	0.04	28.1	5.3	0.23	1230	1.00	0.01	
DD026685	0.69	21.8	2.08	2.80	0.05	0.02	0.18	0.021	0.04	16.4	6.8	0.29	830	0.75	0.01	
DD026686	0.64	13.6	0.76	1.02	<0.05	0.04	0.26	0.009	0.03	6.3	3.4	7.08	187	0.71	0.02	



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ66081		0.21	284	470	13.4	6.9	0.001	0.04	9.45	6.7	8.5	0.7	73.2	0.01	0.10	1.9
ZZ66082		0.31	318	920	19.5	10.3	0.004	0.04	49.5	6.3	15.9	1.4	233	0.01	0.24	4.0
ZZ66083		0.34	197.5	1020	16.8	8.5	0.002	0.04	27.3	5.4	9.9	1.1	67.3	0.01	0.19	2.6
ZZ66084		0.26	131.5	960	13.5	8.9	0.003	0.06	9.34	3.5	4.8	0.7	95.8	0.01	0.11	1.1
ZZ66085		0.34	46.2	250	8.1	3.1	<0.001	<0.01	0.31	7.3	0.2	0.6	6.4	<0.01	0.03	1.3
ZZ66086		0.21	83.4	1610	11.4	8.8	0.002	0.03	1.94	5.3	2.7	0.5	60.0	0.01	0.09	2.4
ZZ66087		0.29	80.7	760	14.9	8.0	0.001	0.04	2.19	5.3	2.1	0.5	42.6	0.01	0.07	1.8
ZZ66088		0.24	67.2	1130	10.1	7.2	0.005	0.08	2.17	3.2	2.5	0.3	88.9	<0.01	0.06	1.1
ZZ66089		0.19	152.0	1340	13.9	7.0	0.007	0.05	7.12	4.6	3.9	0.6	115.0	0.01	0.07	2.1
ZZ66090		0.26	111.0	1230	11.7	6.9	0.013	0.15	3.13	3.4	4.8	0.4	82.2	0.01	0.07	1.6
DD027111		0.31	41.9	1120	8.8	4.9	0.002	0.17	1.51	1.8	4.8	0.4	84.5	<0.01	0.09	0.8
DD027112		0.25	35.9	1120	9.8	4.6	0.002	0.09	1.03	1.1	2.6	0.3	48.6	<0.01	0.08	0.4
DD027113		0.30	26.7	1030	13.5	4.4	0.001	0.08	0.90	1.3	1.2	0.3	33.0	<0.01	0.04	0.5
DD027134		0.30	37.1	710	9.4	3.7	<0.001	0.07	0.98	1.5	1.2	0.3	27.7	<0.01	0.04	0.6
DD027135		0.26	40.1	470	11.3	4.0	0.001	0.04	1.42	2.6	1.4	0.3	17.9	<0.01	0.07	1.4
DD027136		0.45	40.6	530	106.0	4.7	<0.001	0.05	2.56	2.8	1.6	0.4	26.4	<0.01	0.04	1.5
DD027137		0.43	20.0	890	43.4	6.6	0.001	0.09	1.58	1.6	0.6	0.3	30.3	<0.01	0.03	0.6
DD027138		0.30	22.7	1010	25.5	5.2	<0.001	0.07	1.53	2.1	0.7	0.3	30.2	<0.01	0.02	0.9
DD027139		0.36	42.3	1460	42.4	7.1	0.003	0.14	3.43	1.7	3.7	0.5	29.5	<0.01	0.09	0.6
DD027140		0.10	103.5	570	106.5	3.3	0.001	0.02	5.60	3.0	1.9	0.3	41.8	<0.01	0.07	1.1
DD027141		0.52	26.5	870	30.9	7.5	0.001	0.10	1.68	1.3	1.9	0.6	27.6	<0.01	0.08	0.3
DD027142		0.34	40.8	830	36.0	12.0	0.002	0.10	4.30	1.8	1.9	0.4	17.4	<0.01	0.08	0.3
DD027143		0.28	54.6	2500	59.3	12.1	0.002	0.19	4.89	4.8	3.7	0.3	88.3	<0.01	0.08	1.1
DD027144		0.52	25.5	550	17.6	8.2	0.001	0.03	1.05	2.0	1.1	0.4	13.3	<0.01	0.04	1.1
DD027145		0.19	18.9	1040	13.6	6.8	<0.001	0.07	0.87	0.3	0.6	0.4	6.1	<0.01	0.04	<0.2
DD026671		0.67	30.8	1030	12.3	7.4	<0.001	0.12	0.94	1.7	0.7	0.4	25.1	<0.01	0.05	0.4
DD026672		0.74	39.0	980	13.7	7.1	<0.001	0.07	1.05	2.9	0.8	0.5	29.5	<0.01	0.03	1.3
DD026673		0.59	38.6	1230	13.7	7.8	<0.001	0.13	1.08	1.4	1.0	0.5	25.1	<0.01	0.04	0.5
DD026674		0.65	26.7	1310	9.6	5.4	0.001	0.19	0.69	1.1	0.4	0.4	36.2	<0.01	0.03	0.4
DD026675		0.70	185.0	1270	17.7	6.3	0.001	0.06	2.02	5.2	1.5	0.7	28.6	<0.01	0.08	1.4
DD026676		0.32	55.3	920	7.1	4.6	0.001	0.06	1.40	1.2	0.3	0.4	89.5	<0.01	0.03	0.5
DD026677		0.50	68.4	1900	15.3	8.0	0.001	0.18	1.58	1.1	0.6	0.6	23.4	<0.01	0.04	0.3
DD026678		0.47	34.1	760	10.1	5.7	0.002	0.06	0.94	1.7	0.2	0.3	47.1	<0.01	0.04	0.7
DD026679		0.36	42.7	990	7.7	5.5	0.001	0.10	0.86	1.0	0.4	0.3	61.4	<0.01	0.04	0.3
DD026680		0.39	21.4	930	7.0	4.6	0.001	0.14	0.57	0.6	0.3	0.3	47.0	<0.01	0.02	0.2
DD026682		0.48	44.7	1510	12.4	6.2	<0.001	0.17	1.25	0.9	0.7	0.4	25.8	<0.01	0.03	0.3
DD026683		0.42	52.3	2200	12.4	5.8	<0.001	0.18	1.47	0.7	1.0	0.4	30.2	<0.01	0.04	0.2
DD026684		0.50	38.3	2450	13.7	5.5	0.001	0.26	1.07	0.7	1.2	0.4	39.3	<0.01	0.05	0.2
DD026685		0.50	33.4	1830	12.6	5.9	0.001	0.21	0.86	0.6	1.0	0.5	31.9	<0.01	0.05	<0.2
DD026686		0.26	52.4	560	4.9	2.9	<0.001	0.04	0.75	1.0	0.5	0.2	104.0	<0.01	0.03	0.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66081		<0.005	1.06	3.98	438	0.38	36.8	1360	3.1
ZZ66082		0.008	2.65	8.08	1160	0.52	56.2	1790	12.0
ZZ66083		0.010	1.16	5.23	670	0.38	42.7	1100	4.8
ZZ66084		0.007	0.77	4.94	472	0.28	32.9	956	3.9
ZZ66085		0.008	0.10	0.33	101	0.05	2.90	88	1.1
ZZ66086		0.005	0.17	1.87	62	0.07	18.45	213	3.0
ZZ66087		<0.005	0.38	2.44	84	0.12	27.6	195	3.2
ZZ66088		0.005	0.37	2.35	60	0.14	15.80	255	2.8
ZZ66089		0.006	1.54	6.52	175	0.29	29.3	632	4.3
ZZ66090		0.007	0.37	3.58	145	0.14	19.50	962	2.9
DD027111		0.015	0.20	1.25	26	0.12	16.75	130	1.2
DD027112		0.007	0.21	1.25	27	0.26	20.1	136	1.0
DD027113		0.011	0.14	0.85	34	0.19	18.50	128	1.0
DD027134		0.012	0.16	0.91	28	0.12	15.25	129	1.1
DD027135		0.007	0.15	0.97	23	0.05	12.05	160	1.6
DD027136		0.020	0.69	0.79	36	0.19	14.15	576	1.7
DD027137		0.016	0.18	0.77	31	0.24	14.30	233	0.8
DD027138		0.010	0.58	0.73	23	0.07	18.10	384	2.0
DD027139		0.012	2.18	1.31	58	0.25	6.44	335	0.8
DD027140		<0.005	0.71	1.07	30	0.09	22.9	1050	1.9
DD027141		0.022	0.42	1.35	52	0.25	9.47	161	<0.5
DD027142		0.013	0.97	1.72	39	0.11	6.11	482	<0.5
DD027143		0.007	1.03	2.58	79	0.09	82.8	2170	1.4
DD027144		0.016	0.25	0.85	37	0.17	5.16	155	<0.5
DD027145		0.007	0.09	0.46	32	0.11	4.14	91	<0.5
DD026671		0.021	0.15	3.02	55	0.19	19.90	128	1.0
DD026672		0.037	0.18	1.45	69	0.40	21.7	173	1.3
DD026673		0.020	0.16	1.35	59	0.29	13.05	171	0.7
DD026674		0.019	0.14	2.01	41	0.12	17.20	150	1.3
DD026675		0.017	0.54	1.68	80	0.16	37.5	816	5.7
DD026676		0.012	0.19	1.36	40	0.40	9.08	248	1.2
DD026677		0.012	0.38	1.75	73	0.31	17.80	381	0.9
DD026678		0.018	0.12	0.97	45	0.20	10.50	154	1.0
DD026679		0.016	0.25	1.18	35	0.15	9.94	262	1.1
DD026680		0.012	0.11	0.96	25	0.12	12.10	147	0.5
DD026682		0.015	0.20	1.90	62	0.23	23.6	277	0.8
DD026683		0.010	0.27	1.96	66	0.21	29.6	349	0.7
DD026684		0.012	0.23	2.56	53	0.12	44.2	427	0.8
DD026685		0.012	0.20	1.93	52	0.14	24.7	280	0.5
DD026686		0.010	0.22	1.41	22	0.08	10.70	247	1.1



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026687		0.23	0.005	0.18	0.99	9.3	<0.2	<10	130	0.47	0.17	3.63	4.81	14.95	6.9	18
DD026688		0.22	0.007	0.51	1.44	20.6	<0.2	<10	150	0.78	0.24	1.43	3.94	24.7	10.3	28
DD026689		0.20	0.003	0.30	1.26	11.7	<0.2	<10	150	0.57	0.23	2.84	2.63	26.5	8.9	26
DD026690		0.18	0.003	0.33	1.57	20.9	<0.2	<10	210	0.98	0.24	2.22	2.68	22.4	12.9	30
DD026691		0.18	0.003	0.29	1.60	13.0	<0.2	<10	190	0.68	0.29	1.37	1.85	29.8	10.7	31
DD026692		0.20	0.004	0.16	1.10	30.9	<0.2	<10	130	0.77	0.20	4.73	2.19	19.35	8.4	23
DD026693		0.42	0.001	0.15	0.75	16	<0.2	10	210	0.40	0.12	11.30	0.46	14.10	5.1	14
DD026694		0.43	0.002	0.13	0.81	12	<0.2	10	110	0.36	0.12	12.30	0.38	16.95	5.5	14
DD026695		0.29	0.004	0.28	1.52	17.0	<0.2	10	230	0.74	0.21	3.89	0.56	28.7	9.1	26
DD026696		0.34	0.004	0.17	0.92	11.3	<0.2	10	130	0.42	0.14	9.37	0.48	18.75	6.5	16
DD026697		0.28	0.003	0.15	1.33	15.4	<0.2	10	190	0.70	0.24	6.37	0.42	25.8	10.0	23
DD026698		0.35	0.001	0.06	0.52	9	<0.2	10	80	0.36	0.14	15.35	0.21	13.55	4.0	12
DD026699		0.51	0.002	0.03	0.20	14	<0.2	<10	30	0.18	0.10	18.35	0.11	8.14	3.6	7
DD026700		0.29	0.003	0.11	1.82	15.2	<0.2	<10	260	0.85	0.23	0.79	0.30	35.5	9.9	32
DD026701		0.41	0.002	0.06	0.45	25	<0.2	10	250	0.31	0.15	15.30	0.17	13.90	6.3	12
DD026702		0.38	0.002	0.11	0.63	12	<0.2	10	90	0.30	0.08	14.95	0.53	13.95	3.6	12
DD026703		0.38	0.003	0.33	0.96	16.4	<0.2	10	160	0.46	0.14	7.89	0.82	17.40	5.4	17
DD026704		0.47	0.002	0.09	0.43	13	<0.2	<10	70	0.23	0.05	15.65	0.33	7.13	2.9	8
DD026705		0.43	0.003	0.21	0.99	14	<0.2	10	140	0.52	0.14	10.20	0.91	15.45	5.2	16
DD026706		0.39	0.002	0.06	0.44	9	<0.2	10	60	0.23	0.06	16.25	0.54	8.83	2.1	8
DD026707		0.35	0.002	0.09	0.52	10	<0.2	10	70	0.24	0.07	15.40	0.69	10.30	3.2	10
DD026708		0.35	0.003	0.14	0.63	7	<0.2	10	80	0.28	0.09	13.05	0.75	10.70	3.8	11
DD026709		0.38	0.001	0.10	0.59	6	<0.2	10	80	0.25	0.07	15.55	0.58	8.91	3.1	10
DD026710		0.39	0.004	0.27	0.96	10.3	<0.2	<10	70	0.32	0.21	0.11	0.18	14.65	6.4	23
DD026711		0.31	0.005	0.11	1.00	11.0	<0.2	<10	80	0.26	0.23	0.07	0.18	17.40	4.3	23
DD026712		0.32	0.004	0.20	1.25	10.5	<0.2	<10	130	0.40	0.23	0.12	0.17	18.70	10.3	26
DD026713		0.40	0.004	0.24	1.38	12.5	<0.2	<10	90	0.36	0.22	0.09	0.28	21.2	9.6	25
DD026714		0.37	0.005	0.21	0.96	14.1	<0.2	<10	100	0.44	0.18	0.15	0.38	18.95	25.5	21
DD026715		0.34	0.004	0.22	0.68	9.1	<0.2	<10	90	0.28	0.19	0.06	0.22	13.20	10.6	15
DD026716		0.36	0.004	0.27	1.14	10.5	<0.2	<10	100	0.43	0.17	0.09	0.30	15.40	14.0	23
DD026717		0.37	0.005	0.22	0.86	12.7	<0.2	<10	80	0.40	0.19	0.09	0.19	13.45	6.9	26
DD026718		0.31	0.003	0.33	1.16	10.1	<0.2	<10	150	0.43	0.26	0.08	0.26	11.70	6.9	36
DD026719		0.43	0.005	0.64	1.34	11.5	<0.2	<10	130	0.36	0.34	0.01	0.15	7.08	2.1	55
DD026720		0.47	0.005	0.87	1.58	7.6	<0.2	<10	100	0.48	0.29	0.01	0.19	4.72	3.3	76
DD026721		0.30	0.006	0.56	1.20	8.3	<0.2	<10	110	0.38	0.26	0.03	0.19	5.38	4.8	41
DD026722		0.33	0.007	0.44	1.26	10.8	<0.2	<10	100	0.37	0.26	0.05	0.20	9.72	7.2	31
DD026723		0.38	0.004	1.02	0.52	8.7	<0.2	<10	440	0.33	0.21	0.77	0.34	5.15	14.4	13
DD026724		0.26	0.004	0.53	0.68	5.8	<0.2	<10	440	0.29	0.17	1.29	0.34	7.62	8.0	13
DD026725		0.28	0.006	0.98	0.59	9.8	<0.2	10	310	0.33	0.13	1.69	0.37	18.55	3.7	19
DD026726		0.34	0.005	1.71	0.79	12.4	<0.2	<10	560	0.38	0.16	1.04	0.92	15.45	6.0	29





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD026687		0.60	17.4	1.82	2.35	<0.05	0.02	0.16	0.019	0.04	9.0	6.2	0.26	763	0.93	0.01
DD026688		0.82	25.6	2.70	3.86	0.05	0.03	0.18	0.025	0.06	15.5	11.0	0.42	565	1.30	0.01
DD026689		0.76	18.0	2.40	3.19	<0.05	0.02	0.14	0.022	0.05	17.8	9.5	0.34	593	1.54	0.01
DD026690		1.05	37.4	2.67	4.02	0.05	0.05	0.27	0.033	0.07	19.6	10.5	0.32	546	2.18	0.01
DD026691		0.90	21.8	2.98	4.14	0.05	0.03	0.10	0.028	0.07	20.6	12.2	0.48	595	1.56	0.01
DD026692		0.65	23.1	2.30	2.59	<0.05	0.04	0.15	0.023	0.06	13.4	7.6	0.28	536	1.66	0.01
DD026693		0.52	11.9	1.37	1.73	<0.05	0.05	0.07	0.014	0.07	6.8	5.9	6.44	271	0.93	0.01
DD026694		0.75	12.2	1.54	1.75	<0.05	0.08	3.12	0.019	0.09	8.2	6.2	7.19	275	1.29	0.02
DD026695		0.64	16.7	2.85	3.65	0.06	0.10	0.54	0.032	0.11	13.7	11.8	2.27	545	1.91	0.01
DD026696		0.70	16.9	1.90	2.13	0.05	0.07	48.1	0.020	0.09	9.3	8.2	4.45	309	1.70	0.01
DD026697		0.63	16.2	2.75	3.06	0.07	0.10	0.35	0.031	0.12	12.4	8.9	3.74	400	1.34	0.01
DD026698		0.73	9.0	1.54	1.11	<0.05	0.08	0.12	0.016	0.09	6.4	2.8	8.56	176	1.11	0.02
DD026699		0.51	5.5	1.09	0.51	0.05	0.03	4.48	0.013	0.06	3.6	1.1	10.20	88	1.02	0.02
DD026700		0.86	14.9	3.41	4.73	0.08	0.07	11.25	0.033	0.07	16.6	13.4	0.52	602	2.20	<0.01
DD026701		1.34	14.9	1.24	0.98	<0.05	0.09	1.56	0.014	0.08	6.1	2.9	8.87	122	2.54	0.02
DD026702		0.69	9.1	1.10	1.28	<0.05	0.07	0.04	0.013	0.06	6.8	4.7	8.74	256	0.99	0.02
DD026703		0.60	18.5	1.79	2.37	0.05	0.07	0.05	0.022	0.07	9.5	8.3	4.37	234	2.65	0.01
DD026704		0.61	9.4	0.67	0.98	0.05	0.07	0.03	0.011	0.04	3.4	4.1	9.36	113	0.75	0.01
DD026705		0.67	14.6	1.64	2.34	0.05	0.08	0.03	0.021	0.08	8.3	7.9	5.77	387	2.16	0.01
DD026706		0.59	7.9	0.61	0.83	0.05	0.07	0.03	0.010	0.04	4.1	2.9	9.47	160	0.63	0.01
DD026707		0.52	9.7	0.84	1.08	0.05	0.07	0.03	0.011	0.05	5.4	4.3	8.92	232	0.93	0.02
DD026708		0.40	12.3	1.06	1.28	<0.05	0.06	0.05	0.013	0.05	6.1	4.8	7.28	250	0.91	0.01
DD026709		0.46	9.0	0.92	1.21	<0.05	0.07	0.03	0.011	0.05	4.5	4.6	8.41	204	0.72	0.01
DD026710		5.05	25.8	2.88	3.74	0.06	<0.02	0.08	0.026	0.04	7.3	11.8	0.23	187	1.74	<0.01
DD026711		1.87	19.0	2.74	4.79	0.05	<0.02	0.07	0.022	0.04	9.1	7.6	0.17	174	1.90	<0.01
DD026712		2.80	28.1	3.18	4.25	0.07	<0.02	0.07	0.032	0.06	9.4	16.3	0.33	310	2.20	<0.01
DD026713		2.64	28.5	3.12	4.65	0.07	<0.02	0.10	0.030	0.04	11.0	13.7	0.29	283	1.85	<0.01
DD026714		4.30	32.9	3.11	2.88	0.08	0.03	0.04	0.029	0.04	10.1	13.1	0.25	376	2.39	<0.01
DD026715		3.22	25.4	2.57	3.30	0.05	<0.02	0.06	0.022	0.04	7.6	5.4	0.09	195	2.53	<0.01
DD026716		4.85	29.8	2.91	3.30	0.06	<0.02	0.05	0.028	0.04	8.3	19.0	0.26	248	1.84	<0.01
DD026717		3.49	31.3	2.97	3.25	0.06	<0.02	0.05	0.030	0.04	7.2	10.5	0.20	157	2.03	<0.01
DD026718		6.07	35.9	3.31	3.89	0.06	0.02	0.06	0.041	0.06	6.1	13.6	0.21	240	2.74	<0.01
DD026719		4.68	50.3	4.07	4.23	0.08	0.09	0.18	0.051	0.08	3.1	18.3	0.32	78	5.49	<0.01
DD026720		4.34	61.5	4.10	4.16	0.08	0.07	0.11	0.060	0.06	2.4	22.3	0.35	136	2.41	<0.01
DD026721		3.70	47.5	3.82	3.69	0.06	0.04	0.11	0.043	0.04	2.7	12.4	0.15	152	2.18	<0.01
DD026722		4.32	39.7	3.68	4.03	0.06	0.02	0.09	0.040	0.05	5.1	13.8	0.19	223	2.17	<0.01
DD026723		1.19	52.9	3.25	1.17	0.06	0.07	0.14	0.040	0.06	3.0	5.0	0.08	183	2.50	<0.01
DD026724		0.92	32.1	2.52	1.70	0.05	0.05	0.11	0.030	0.04	5.8	5.3	0.11	384	1.68	<0.01
DD026725		0.66	22.9	1.68	1.35	0.06	0.07	0.14	0.026	0.06	15.1	5.3	0.12	89	1.68	<0.01
DD026726		1.66	29.0	1.92	1.90	0.07	0.10	0.16	0.029	0.06	12.7	7.4	0.22	165	1.65	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD026687		0.55	21.7	1280	9.6	5.6	<0.001	0.19	0.78	0.7	0.6	0.3	27.8	<0.01	0.05	0.2
DD026688		0.73	57.1	1060	13.5	7.6	<0.001	0.09	1.10	2.4	1.0	0.5	26.3	<0.01	0.05	0.9
DD026689		0.68	31.1	1050	12.7	7.7	<0.001	0.14	1.01	1.3	0.8	0.5	33.6	<0.01	0.04	0.4
DD026690		0.64	120.5	1380	15.8	8.0	<0.001	0.15	1.71	1.9	1.5	0.6	39.2	<0.01	0.08	0.4
DD026691		0.78	43.6	860	16.1	9.3	0.001	0.09	1.07	2.4	0.7	0.5	27.0	<0.01	0.04	0.9
DD026692		0.46	68.1	2410	12.1	5.7	0.001	0.14	1.75	0.9	0.8	0.4	37.2	<0.01	0.04	0.3
DD026693		0.28	15.4	670	8.8	5.0	0.001	0.05	0.60	1.6	0.4	0.3	79.7	<0.01	0.02	0.7
DD026694		0.28	15.3	630	10.3	6.4	<0.001	0.07	0.66	1.9	0.7	0.3	99.6	<0.01	0.02	1.1
DD026695		0.50	26.6	640	18.0	8.8	<0.001	0.07	0.80	3.8	0.9	0.5	32.9	<0.01	0.04	2.0
DD026696		0.39	20.7	740	11.7	6.0	<0.001	0.09	0.78	2.0	0.8	0.3	80.4	<0.01	0.03	1.1
DD026697		0.47	24.2	570	15.7	9.1	<0.001	0.07	0.68	3.8	0.8	0.4	40.8	<0.01	0.04	2.4
DD026698		0.23	11.4	390	9.4	5.0	<0.001	0.07	0.50	2.0	0.7	0.2	102.0	<0.01	0.02	1.3
DD026699		0.17	11.5	90	7.3	2.8	0.001	0.12	0.30	1.8	0.5	0.2	132.5	<0.01	0.02	1.6
DD026700		0.81	27.5	220	19.5	8.5	<0.001	0.03	0.79	4.7	0.8	0.6	15.4	<0.01	0.04	4.7
DD026701		0.21	18.0	380	13.8	4.9	0.001	0.07	0.92	1.6	0.6	0.4	131.0	<0.01	0.02	1.4
DD026702		0.27	10.3	740	7.9	4.9	0.001	0.08	0.65	1.3	0.7	0.2	103.5	<0.01	0.03	0.8
DD026703		0.37	23.3	910	12.1	5.9	<0.001	0.09	1.20	1.9	1.3	0.3	68.5	0.01	0.04	0.9
DD026704		0.29	17.4	360	4.4	3.7	<0.001	0.03	0.61	1.2	0.6	0.2	99.9	<0.01	0.02	0.7
DD026705		0.34	23.1	960	17.2	7.0	<0.001	0.09	1.02	1.7	1.1	0.3	78.0	0.01	0.04	0.8
DD026706		0.23	9.5	660	5.4	3.8	0.001	0.07	0.51	0.9	0.7	<0.2	107.0	<0.01	0.02	0.6
DD026707		0.26	12.0	720	7.7	4.4	<0.001	0.06	0.60	1.0	0.7	0.2	105.5	<0.01	0.03	0.7
DD026708		0.29	14.3	820	8.8	3.7	0.001	0.09	0.64	1.0	0.8	0.2	90.3	<0.01	0.04	0.6
DD026709		0.29	11.7	660	7.9	4.4	<0.001	0.07	0.59	1.0	0.7	0.2	109.0	<0.01	0.03	0.7
DD026710		0.38	22.2	830	12.9	7.6	<0.001	0.08	0.95	1.1	1.1	0.4	13.7	<0.01	0.06	0.2
DD026711		0.42	15.0	570	12.3	8.5	<0.001	0.06	0.92	0.8	0.8	0.5	11.6	<0.01	0.05	<0.2
DD026712		0.51	37.2	590	13.0	9.2	0.001	0.06	1.01	1.9	1.0	0.4	22.2	<0.01	0.06	0.6
DD026713		0.48	34.6	660	13.3	8.1	0.001	0.05	1.08	1.3	1.1	0.5	16.7	<0.01	0.05	0.3
DD026714		0.60	61.2	770	12.6	6.0	0.001	0.05	1.08	2.2	1.3	0.3	39.4	<0.01	0.04	2.1
DD026715		0.32	41.1	640	10.4	8.8	<0.001	0.05	0.76	1.1	1.0	0.4	23.9	<0.01	0.04	0.2
DD026716		0.54	44.6	570	13.1	6.9	0.001	0.05	0.88	1.6	1.1	0.3	27.5	<0.01	0.05	0.8
DD026717		0.39	31.0	880	11.0	6.6	0.001	0.09	0.94	1.5	1.5	0.4	19.7	<0.01	0.06	0.3
DD026718		0.34	29.8	1300	15.9	12.5	0.001	0.12	0.92	1.3	1.6	0.4	27.5	<0.01	0.06	0.3
DD026719		0.10	15.7	580	21.5	13.5	0.004	0.06	0.82	3.5	2.7	0.4	16.2	<0.01	0.06	4.9
DD026720		0.13	23.8	860	18.2	15.6	0.005	0.09	0.87	2.3	4.4	0.4	23.7	<0.01	0.06	2.0
DD026721		0.31	24.3	1190	16.8	12.0	0.001	0.10	0.88	1.4	2.7	0.3	14.3	<0.01	0.07	0.7
DD026722		0.35	31.1	1010	15.7	10.4	0.001	0.10	1.03	0.9	1.8	0.4	14.4	<0.01	0.09	0.2
DD026723		0.09	67.6	550	13.3	4.9	0.001	0.06	0.77	3.7	1.9	0.2	22.5	<0.01	0.06	1.4
DD026724		0.19	35.3	1010	10.6	4.5	0.001	0.13	0.67	2.0	1.5	0.2	24.6	<0.01	0.07	0.4
DD026725		0.15	43.5	710	8.4	5.4	0.001	0.08	0.82	2.2	2.3	0.3	44.8	<0.01	0.07	1.0
DD026726		0.22	42.4	1460	11.4	8.1	0.002	0.11	1.13	2.2	3.7	0.3	43.0	0.01	0.10	1.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026687		0.015	0.15	0.97	35	0.19	10.20	191	0.6
DD026688		0.027	0.23	1.98	58	0.25	17.75	291	1.2
DD026689		0.023	0.14	1.61	55	0.25	19.90	150	0.6
DD026690		0.014	0.49	4.90	73	0.21	33.5	471	1.5
DD026691		0.029	0.16	1.58	64	0.27	21.7	158	0.8
DD026692		0.014	0.30	3.04	62	0.35	22.1	365	1.0
DD026693		0.009	0.09	0.80	24	0.07	6.95	67	1.3
DD026694		0.009	0.11	0.99	24	0.08	7.93	76	2.1
DD026695		0.011	0.14	0.74	52	0.15	13.30	94	2.5
DD026696		0.011	0.13	0.97	29	0.11	9.57	89	1.9
DD026697		0.010	0.15	0.58	43	0.12	13.90	84	2.5
DD026698		0.005	0.15	0.63	16	<0.05	6.58	39	2.2
DD026699		<0.005	0.14	0.44	7	<0.05	3.89	22	1.5
DD026700		0.017	0.18	0.69	59	0.20	11.85	113	2.2
DD026701		<0.005	0.23	1.40	13	0.06	4.60	36	2.4
DD026702		0.008	0.10	1.20	21	0.07	6.83	82	1.9
DD026703		0.011	0.16	1.21	38	0.19	11.70	115	2.0
DD026704		0.005	0.11	1.33	17	0.05	4.43	81	2.0
DD026705		0.010	0.17	1.01	35	0.14	9.91	187	2.2
DD026706		0.007	0.08	1.31	16	0.05	4.15	78	1.9
DD026707		0.008	0.09	1.52	20	0.06	6.64	100	2.0
DD026708		0.008	0.09	1.28	23	0.11	7.46	118	1.5
DD026709		0.007	0.09	1.15	22	0.07	4.68	93	1.9
DD026710		0.023	0.11	0.72	41	0.19	3.78	97	<0.5
DD026711		0.030	0.11	0.60	55	0.34	2.88	77	<0.5
DD026712		0.031	0.11	0.65	44	0.21	5.68	127	<0.5
DD026713		0.028	0.15	0.79	47	0.31	6.23	155	<0.5
DD026714		0.030	0.17	0.95	33	0.19	9.53	221	0.6
DD026715		0.023	0.13	0.54	42	0.17	6.34	193	<0.5
DD026716		0.027	0.11	0.64	36	0.17	6.30	174	<0.5
DD026717		0.024	0.10	0.88	38	0.17	5.51	129	<0.5
DD026718		0.013	0.13	0.91	40	0.15	5.93	125	<0.5
DD026719		<0.005	0.21	0.95	34	<0.05	4.58	70	4.7
DD026720		<0.005	0.12	0.97	42	0.05	5.49	108	2.0
DD026721		0.008	0.12	0.78	39	0.06	4.31	124	1.2
DD026722		0.014	0.12	0.79	42	0.13	5.13	141	<0.5
DD026723		<0.005	0.12	0.45	18	<0.05	13.90	248	2.0
DD026724		0.006	0.06	0.54	20	<0.05	13.45	148	1.5
DD026725		<0.005	0.14	1.11	26	0.06	20.2	121	2.0
DD026726		0.005	0.22	1.82	34	0.09	24.8	195	2.6



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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD026727		0.30	0.001	0.63	1.74	17.5	<0.2	<10	950	0.66	0.21	0.41	0.99	24.7	9.5	49
DD026728		0.33	0.002	0.99	1.16	13.2	<0.2	<10	380	0.49	0.17	1.54	0.85	21.6	7.2	31
DD026729		0.29	0.001	0.68	1.14	24.8	<0.2	<10	600	0.49	0.17	1.19	1.06	22.7	7.5	38
DD026730		0.30	0.001	0.17	1.21	5.7	<0.2	<10	520	0.39	0.19	0.34	1.03	20.5	7.5	26
DD026731		0.35	0.001	0.31	1.03	8.3	<0.2	<10	340	0.44	0.17	0.53	0.78	18.85	5.1	22
DD026732		0.30	0.001	0.22	1.73	12.0	<0.2	<10	250	0.49	0.23	0.14	0.95	26.8	8.3	33
DD026733		0.25	0.008	0.66	1.18	24.4	<0.2	<10	800	0.43	0.15	1.91	0.49	17.80	7.1	26
DD026734		0.37	0.001	0.31	1.31	13.8	<0.2	<10	650	0.48	0.16	0.30	0.64	22.0	6.6	30
DD026735		0.26	0.001	0.39	1.41	11.6	<0.2	<10	550	0.50	0.18	0.87	0.81	19.45	7.0	33
DD026736		0.32	0.005	1.07	0.83	14.2	<0.2	<10	630	0.38	0.14	1.90	0.36	18.60	6.0	24
DD026737		0.35	0.002	0.28	1.43	10.4	<0.2	<10	790	0.54	0.15	0.80	0.69	19.50	5.5	31
DD026738		0.15	0.002	1.16	0.54	7.1	<0.2	10	500	0.26	0.10	2.28	0.67	10.50	4.0	16
DD026739		0.22	0.003	0.89	0.59	8.9	<0.2	<10	390	0.28	0.11	1.87	0.60	12.10	4.2	16
DD026740		0.24	0.003	0.46	0.73	5.9	<0.2	10	330	0.29	0.11	3.21	1.76	11.45	5.5	16
DD026741		0.29	0.002	0.45	0.77	9.7	<0.2	<10	660	0.35	0.12	2.48	0.51	15.30	5.8	17
DD026742		0.12	0.007	0.46	0.71	7.4	<0.2	10	680	0.31	0.10	2.46	1.54	9.76	4.7	16
DD026743		0.24	0.004	0.79	0.87	9.5	<0.2	<10	620	0.36	0.13	1.73	0.86	16.60	6.3	21
DD026744		0.25	0.003	1.05	0.81	10.5	<0.2	<10	580	0.35	0.13	2.03	0.95	16.25	5.8	23
DD026745		0.16	0.003	0.43	0.88	7.8	<0.2	<10	590	0.38	0.13	1.89	0.53	15.25	6.0	18
DD026746		0.24	0.003	0.50	0.89	8.3	<0.2	10	810	0.37	0.13	1.81	0.83	13.80	7.0	18
DD026747		0.27	0.003	0.47	0.86	9.2	<0.2	10	660	0.39	0.13	3.40	0.58	13.30	5.6	18
DD026748		0.20	0.003	0.39	0.94	7.7	<0.2	<10	580	0.37	0.12	2.26	0.56	12.35	5.9	18
DD026749		0.16	0.009	0.33	0.78	6.3	<0.2	10	780	0.28	0.09	3.75	0.94	9.80	4.7	14
DD026750		0.17	0.002	0.40	1.01	9.8	<0.2	<10	840	0.35	0.13	3.20	1.63	13.55	6.6	19
DD026751		0.25	0.005	2.08	0.78	59.9	<0.2	10	940	0.72	0.18	1.69	22.9	38.8	6.5	36
DD026752		0.36	0.002	0.76	1.31	26.3	<0.2	<10	840	0.75	0.19	1.11	3.85	38.4	8.3	30
DD026753		0.36	0.002	0.61	1.28	53.8	<0.2	<10	660	0.57	0.18	0.47	7.84	33.4	6.2	42
DD026754		0.39	0.008	3.24	1.11	68.0	<0.2	10	730	1.07	0.23	2.54	44.4	52.9	5.0	85
DD026755		0.24	0.002	0.78	1.07	13.2	<0.2	<10	830	0.40	0.15	1.93	0.71	17.10	6.7	25
DD026756		0.25	0.002	0.98	0.64	10.4	<0.2	<10	200	0.27	0.10	0.77	1.33	21.7	4.3	19
DD026757		0.31	0.003	0.41	0.81	13.1	<0.2	<10	340	0.30	0.16	0.15	0.35	18.10	3.9	22
DD026758		0.32	0.002	0.95	0.79	21.0	<0.2	<10	260	0.33	0.13	4.57	2.13	19.40	6.6	24
DD026759		0.28	0.003	1.30	0.80	32.0	<0.2	<10	420	0.61	0.19	1.10	2.67	27.5	9.7	38
DD026760		0.31	0.002	0.44	0.58	11.5	<0.2	<10	150	0.20	0.19	0.12	0.43	14.95	3.9	19
DD026761		0.31	0.003	0.85	1.00	10.3	<0.2	<10	740	0.35	0.19	0.92	0.49	19.40	6.9	21
DD026762		0.30	0.004	1.01	0.63	8.1	<0.2	<10	100	0.15	0.25	0.04	0.09	7.24	3.8	17
DD026763		0.38	0.001	0.63	0.76	11.7	<0.2	<10	300	0.24	0.23	0.25	0.21	8.55	4.2	18
DD026764		0.38	0.002	1.44	0.76	27.5	<0.2	<10	570	0.38	0.19	1.48	1.31	30.9	8.0	27
DD026765		0.41	0.002	1.42	0.58	15.7	<0.2	<10	180	0.26	0.21	0.02	0.24	6.17	6.0	15
DD026766		0.34	0.003	2.35	0.51	56.7	<0.2	<10	490	0.53	0.30	0.31	0.74	32.8	13.7	14





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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026727		1.49	23.2	3.31	4.84	0.08	0.06	0.05	0.035	0.06	17.9	10.8	0.27	334	2.81	0.01
DD026728		0.64	20.5	2.45	2.92	0.07	0.07	0.09	0.029	0.11	16.1	8.2	0.32	219	2.24	<0.01
DD026729		0.77	23.2	3.29	2.91	0.09	0.08	0.08	0.034	0.08	23.5	8.0	0.25	393	3.27	<0.01
DD026730		1.04	9.8	2.41	3.95	<0.05	0.03	0.02	0.029	0.06	10.5	9.2	0.19	731	1.11	0.01
DD026731		0.97	13.9	2.09	2.82	0.05	0.05	0.05	0.027	0.10	10.7	7.5	0.17	332	1.22	0.01
DD026732		1.36	11.1	2.86	5.53	0.06	0.03	0.03	0.031	0.06	12.5	13.2	0.40	312	1.26	0.01
DD026733		0.89	17.6	2.00	3.28	0.05	0.05	0.10	0.025	0.04	10.6	8.6	0.27	351	0.91	0.01
DD026734		0.92	14.3	2.45	3.73	0.06	0.03	0.03	0.026	0.05	12.7	9.4	0.23	166	1.77	0.01
DD026735		1.37	13.8	2.43	4.02	0.06	0.06	0.04	0.029	0.06	11.3	8.2	0.24	646	1.67	0.01
DD026736		0.81	21.3	2.14	2.05	0.06	0.08	0.13	0.024	0.07	12.3	8.6	0.58	178	2.04	0.01
DD026737		0.94	14.5	2.18	3.89	0.06	0.06	0.04	0.029	0.04	11.7	9.0	0.21	241	1.44	0.01
DD026738		0.52	20.6	1.07	1.40	<0.05	0.05	0.10	0.017	0.04	7.3	5.1	0.22	272	0.71	0.01
DD026739		0.53	18.1	1.22	1.62	0.05	0.05	0.09	0.019	0.05	8.5	6.2	0.26	209	0.96	0.01
DD026740		0.59	18.9	1.53	1.79	0.05	0.06	0.12	0.017	0.06	7.1	9.5	0.35	317	0.69	0.01
DD026741		0.66	19.5	1.89	2.05	0.05	0.06	0.11	0.020	0.06	9.5	10.6	0.90	267	1.51	0.01
DD026742		0.72	19.1	1.43	1.84	0.05	0.07	0.11	0.017	0.06	6.3	8.5	0.31	262	0.83	0.02
DD026743		0.85	22.3	1.95	2.29	0.06	0.08	0.12	0.023	0.07	11.0	11.0	0.56	273	0.76	0.02
DD026744		1.09	23.9	1.82	2.15	0.06	0.08	0.13	0.024	0.06	12.7	9.0	0.76	207	1.43	0.01
DD026745		0.67	20.3	1.90	2.33	0.05	0.07	0.18	0.021	0.06	9.1	11.7	0.49	337	1.01	0.01
DD026746		0.55	21.2	1.92	2.33	0.05	0.06	0.13	0.021	0.07	8.2	10.3	0.29	2530	2.13	0.01
DD026747		0.73	27.2	2.01	2.22	0.06	0.09	0.11	0.022	0.07	9.4	10.4	1.09	224	1.63	0.01
DD026748		0.66	17.8	1.77	2.50	0.05	0.06	0.09	0.019	0.06	7.1	9.8	0.30	350	1.24	0.02
DD026749		0.58	22.4	1.30	2.01	<0.05	0.05	0.09	0.015	0.03	5.7	7.1	0.30	355	1.09	0.02
DD026750		0.53	17.9	1.87	2.80	0.06	0.04	0.10	0.018	0.04	7.2	8.8	0.29	774	2.29	0.02
DD026751		0.28	126.5	2.05	3.51	0.12	0.11	0.38	0.037	0.09	25.0	7.2	0.22	242	48.0	0.01
DD026752		0.40	40.4	2.60	4.05	0.09	0.07	0.10	0.032	0.09	23.1	10.8	0.34	287	22.2	0.01
DD026753		0.71	48.6	2.16	4.49	0.09	0.05	0.11	0.031	0.10	24.7	11.5	0.23	115	46.3	0.01
DD026754		0.67	259	1.69	5.33	0.16	0.16	0.89	0.041	0.17	37.9	9.7	0.87	83	93.2	0.01
DD026755		0.58	22.1	2.14	2.82	0.06	0.06	0.48	0.024	0.05	10.5	10.9	0.33	287	2.68	0.01
DD026756		0.53	13.9	1.48	1.55	0.07	0.05	0.06	0.018	0.04	16.2	4.0	0.14	299	1.60	0.01
DD026757		1.55	15.6	1.98	2.64	0.05	0.02	0.03	0.023	0.04	11.0	5.7	0.15	174	2.50	<0.01
DD026758		0.70	15.7	1.86	2.01	0.06	0.06	0.09	0.027	0.05	15.9	5.7	2.57	334	2.42	0.02
DD026759		4.42	26.9	3.36	1.95	0.10	0.10	0.16	0.051	0.13	23.4	3.3	0.29	616	6.09	0.01
DD026760		2.81	19.8	2.44	2.77	0.05	<0.02	0.06	0.021	0.06	8.1	4.7	0.11	161	1.78	0.01
DD026761		3.16	31.1	2.96	2.53	0.07	0.05	0.11	0.031	0.06	13.2	12.9	0.24	191	3.28	0.02
DD026762		3.78	29.3	2.23	3.37	<0.05	<0.02	0.06	0.022	0.08	3.9	1.3	0.03	42	1.98	0.01
DD026763		8.60	27.4	2.86	2.79	0.06	<0.02	0.08	0.030	0.08	4.5	9.9	0.12	196	5.25	0.01
DD026764		11.85	27.5	3.00	1.74	0.10	0.13	0.12	0.042	0.13	21.2	4.5	0.76	326	5.80	0.01
DD026765		12.05	41.9	3.25	1.45	0.07	0.03	0.07	0.031	0.07	2.8	7.8	0.08	127	4.73	0.01
DD026766		17.55	36.6	3.64	1.36	0.06	0.02	0.17	0.038	0.14	18.4	7.6	0.09	448	2.68	0.01



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD026727		0.60	55.0	900	13.9	8.1	<0.001	0.05	1.32	3.4	1.6	0.6	28.8	0.01	0.06	1.4
DD026728		0.45	52.5	850	11.4	6.1	<0.001	0.06	1.07	3.2	1.7	0.4	33.4	0.01	0.06	1.2
DD026729		0.43	69.3	1160	12.2	6.9	<0.001	0.08	1.83	3.2	2.4	0.4	32.0	0.01	0.09	1.2
DD026730		0.68	19.2	420	14.6	9.0	<0.001	0.01	0.54	3.0	0.4	0.5	12.4	<0.01	0.04	1.7
DD026731		0.45	29.0	690	12.9	9.8	<0.001	0.08	0.81	2.9	1.0	0.4	27.8	<0.01	0.05	1.3
DD026732		1.17	28.2	450	14.5	11.7	<0.001	0.01	0.67	3.2	0.6	0.6	12.2	<0.01	0.04	2.5
DD026733		0.64	39.2	730	10.9	5.1	0.001	0.06	0.81	2.6	1.4	0.4	50.5	0.01	0.04	0.7
DD026734		0.47	30.5	450	12.4	6.1	<0.001	0.02	0.81	2.9	0.9	0.4	16.6	<0.01	0.06	1.6
DD026735		0.54	29.1	510	13.7	7.6	<0.001	0.03	0.81	3.7	1.0	0.5	19.0	<0.01	0.06	1.4
DD026736		0.33	37.3	730	11.5	6.3	0.001	0.05	1.08	2.8	1.9	0.3	47.7	<0.01	0.06	1.2
DD026737		0.49	28.6	570	12.1	4.8	<0.001	0.03	0.72	3.0	1.1	0.5	27.8	<0.01	0.05	1.0
DD026738		0.25	25.4	720	7.9	5.3	0.002	0.10	0.65	1.5	2.8	0.2	52.2	<0.01	0.06	0.6
DD026739		0.35	24.3	690	8.0	5.7	0.002	0.09	0.65	1.5	2.2	0.2	42.8	<0.01	0.06	0.5
DD026740		0.28	60.6	890	9.5	6.9	0.005	0.16	0.60	1.9	4.5	0.2	94.3	<0.01	0.04	0.6
DD026741		0.26	25.4	770	11.8	6.3	0.002	0.06	0.71	2.4	1.6	0.2	38.7	<0.01	0.05	1.3
DD026742		0.24	26.2	950	9.2	7.0	0.004	0.13	0.61	1.7	2.3	0.2	39.4	<0.01	0.04	0.6
DD026743		0.34	29.0	970	13.0	6.5	0.003	0.07	0.70	2.7	2.1	0.3	36.2	<0.01	0.05	1.5
DD026744		0.32	33.2	1120	11.7	6.9	0.004	0.07	0.91	2.5	2.4	0.3	41.3	<0.01	0.07	1.1
DD026745		0.33	23.8	770	12.0	6.5	0.002	0.05	0.63	2.6	1.2	0.3	38.4	<0.01	0.05	1.2
DD026746		0.30	27.3	780	11.2	5.7	0.002	0.07	0.75	2.2	1.3	0.3	38.9	<0.01	0.06	1.0
DD026747		0.32	27.4	710	12.0	6.8	0.001	0.06	0.88	2.9	1.6	0.3	51.0	<0.01	0.05	1.2
DD026748		0.40	19.9	760	10.1	8.3	0.001	0.10	0.59	2.0	1.6	0.3	48.5	<0.01	0.04	0.6
DD026749		0.40	18.7	750	7.9	4.6	0.002	0.13	0.73	1.2	2.4	0.2	75.3	<0.01	0.03	0.3
DD026750		0.59	20.9	1010	9.7	5.6	0.006	0.13	1.18	1.4	5.7	0.3	83.1	<0.01	0.05	0.4
DD026751		0.38	178.0	1240	18.2	7.1	0.003	0.05	19.90	4.1	8.6	0.9	101.0	0.01	0.14	1.9
DD026752		0.53	85.8	660	15.6	10.2	0.001	0.02	6.36	3.8	2.5	0.7	49.2	<0.01	0.08	2.6
DD026753		0.27	105.0	370	17.6	11.8	0.001	0.01	10.35	2.9	5.5	0.7	38.6	<0.01	0.13	2.6
DD026754		0.24	339	950	25.4	15.0	0.002	0.07	26.2	5.4	11.9	1.3	111.5	0.01	0.25	3.3
DD026755		0.42	32.9	840	11.9	5.4	0.002	0.07	1.38	2.3	2.6	0.3	45.3	<0.01	0.06	0.8
DD026756		0.23	24.2	1300	8.4	5.5	<0.001	0.06	0.82	2.5	1.7	0.2	26.8	0.01	0.04	0.6
DD026757		0.19	27.1	1100	11.5	7.0	0.001	0.04	0.92	0.7	1.5	0.4	13.2	<0.01	0.05	0.2
DD026758		0.31	31.6	1040	19.8	5.2	0.001	0.10	2.88	1.6	2.0	0.3	32.4	0.01	0.08	0.7
DD026759		0.22	56.1	1680	44.3	10.6	0.002	0.31	4.27	2.8	3.8	0.4	29.6	0.01	0.15	1.0
DD026760		0.21	21.7	890	13.3	9.7	0.001	0.07	0.94	0.4	1.1	0.4	12.3	<0.01	0.05	<0.2
DD026761		0.34	40.3	940	13.8	7.6	0.001	0.09	0.78	2.8	1.7	0.3	21.6	<0.01	0.05	0.7
DD026762		0.33	15.1	430	14.1	12.9	0.002	0.03	0.98	1.3	1.4	0.4	9.0	<0.01	0.09	0.9
DD026763		0.31	20.3	780	16.0	11.8	0.003	0.09	0.84	1.5	2.7	0.3	24.8	<0.01	0.05	0.4
DD026764		0.22	56.4	1090	28.5	13.7	0.001	0.18	2.67	4.0	2.6	0.3	31.6	0.01	0.10	2.2
DD026765		0.14	31.3	660	18.9	12.4	0.005	0.10	1.09	2.6	4.0	0.2	33.9	<0.01	0.06	1.3
DD026766		0.07	64.3	780	34.7	16.7	0.004	0.13	3.69	4.5	2.6	0.2	42.1	<0.01	0.15	3.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026727		0.015	0.21	2.62	84	0.17	23.3	251	1.1
DD026728		0.012	0.16	0.90	49	0.12	21.0	177	1.5
DD026729		0.012	0.24	1.15	57	0.13	27.7	279	1.9
DD026730		0.021	0.14	0.61	55	0.14	8.07	129	0.8
DD026731		0.012	0.18	1.15	47	0.16	13.80	138	1.2
DD026732		0.031	0.18	0.67	61	0.20	5.79	155	0.7
DD026733		0.014	0.24	1.94	49	0.23	18.00	118	1.1
DD026734		0.009	0.18	0.67	54	0.12	8.27	116	0.7
DD026735		0.012	0.22	0.82	63	0.12	10.35	144	1.6
DD026736		0.009	0.19	0.76	32	0.10	18.30	123	1.9
DD026737		0.010	0.15	1.26	58	0.12	13.60	97	1.2
DD026738		0.006	0.12	0.74	22	0.06	10.90	110	1.4
DD026739		0.008	0.12	1.49	25	0.07	11.60	93	1.2
DD026740		0.006	0.13	1.93	23	0.05	10.30	270	1.7
DD026741		0.006	0.09	0.97	28	0.08	12.85	123	1.6
DD026742		0.006	0.09	1.91	24	0.05	9.50	168	1.9
DD026743		0.008	0.10	1.09	33	0.14	15.95	143	2.1
DD026744		0.008	0.14	1.12	33	0.11	20.7	144	2.0
DD026745		0.008	0.08	0.79	28	0.10	11.35	118	1.8
DD026746		0.007	0.08	1.20	29	0.06	10.15	121	1.6
DD026747		0.007	0.09	1.39	27	0.08	14.70	129	2.6
DD026748		0.009	0.09	1.17	31	0.10	8.45	104	1.5
DD026749		0.009	0.07	1.82	25	0.13	7.93	71	1.5
DD026750		0.012	0.07	3.70	31	0.11	7.75	85	1.0
DD026751		0.011	1.07	8.00	616	0.46	40.0	1400	4.3
DD026752		0.011	0.54	4.14	292	0.30	19.35	458	2.2
DD026753		0.006	1.11	3.31	719	0.41	16.45	770	2.1
DD026754		0.016	2.65	10.20	1760	0.74	61.0	2340	8.5
DD026755		0.009	0.14	1.88	72	0.13	15.30	149	1.5
DD026756		0.011	0.10	1.49	31	0.14	31.8	141	1.1
DD026757		0.009	0.25	1.01	38	0.14	10.05	119	<0.5
DD026758		0.011	0.23	1.59	42	0.14	24.4	300	1.1
DD026759		0.008	0.97	3.81	53	0.15	40.7	458	1.8
DD026760		0.012	0.12	0.66	35	0.14	3.62	122	<0.5
DD026761		0.013	0.09	0.99	32	0.09	15.40	162	1.1
DD026762		0.008	0.11	0.48	42	0.09	3.03	105	<0.5
DD026763		0.011	0.12	0.83	27	0.10	4.40	92	<0.5
DD026764		0.007	1.10	1.57	38	0.08	33.7	314	3.1
DD026765		<0.005	0.30	1.31	17	<0.05	8.24	153	0.6
DD026766		<0.005	0.72	1.19	19	<0.05	27.4	221	1.0



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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD026767		0.43	0.002	2.03	0.46	37.2	<0.2	<10	390	0.69	0.31	0.42	0.49	28.4	11.5	17
DD026768		0.32	0.004	0.80	0.34	41.1	<0.2	<10	530	0.49	0.15	5.16	2.82	16.50	7.5	18
DD026769		0.24	0.002	0.95	0.43	13.1	<0.2	<10	950	0.28	0.16	1.79	1.14	19.80	5.9	11
DD026770		0.31	0.003	0.97	0.27	18.7	<0.2	<10	1050	0.30	0.25	0.77	0.42	15.00	7.4	10
DD026771		0.38	0.002	1.17	0.33	22.8	<0.2	<10	220	0.19	0.24	0.09	0.20	4.40	5.1	11
DD026772		0.37	0.002	0.42	0.58	15.9	<0.2	<10	100	0.28	0.23	0.06	0.21	8.48	6.0	14
DD026773		0.30	0.002	0.28	0.73	12.5	<0.2	<10	140	0.35	0.26	0.22	0.29	12.15	5.9	19
DD026774		0.19	0.007	1.35	0.61	15.7	<0.2	<10	400	0.54	0.18	1.41	3.38	15.40	4.7	24
DD026775		0.33	0.005	1.72	0.36	24.1	<0.2	<10	890	0.41	0.19	1.59	8.66	24.6	6.5	19
DD026776		0.32	0.004	2.89	0.35	20.8	<0.2	<10	420	0.39	0.13	1.77	3.60	16.05	5.4	23
DD026777		0.33	0.006	3.69	0.33	24.3	<0.2	<10	480	0.34	0.17	0.57	3.03	23.0	7.5	38
DD026778		0.35	0.006	4.33	0.35	26.1	<0.2	<10	810	0.34	0.17	1.13	2.44	23.2	6.2	24
DD026779		0.38	0.007	3.55	0.44	37.3	<0.2	<10	940	0.46	0.22	0.80	5.75	23.0	6.1	28
DD026780		0.36	0.001	1.20	0.34	21	<0.2	<10	320	0.40	0.13	11.05	3.39	11.25	5.9	19
DD026781		0.28	0.001	1.47	0.49	27.3	<0.2	<10	390	0.89	0.17	6.60	6.64	14.10	6.8	26
DD026782		0.46	0.001	0.34	0.24	11	<0.2	<10	100	0.27	0.08	15.40	4.48	9.03	3.4	14
DD026783		0.30	0.003	0.84	0.51	10.9	<0.2	<10	270	0.50	0.26	0.46	0.33	27.3	5.2	13
DD026784		0.31	0.004	1.41	1.20	18.2	<0.2	<10	1590	0.50	0.23	3.44	0.93	19.20	22.3	19
DD026785		0.43	0.004	1.68	0.60	16.1	<0.2	<10	1520	0.49	0.26	0.78	0.71	12.20	9.8	19
DD026786		0.23	0.002	0.50	1.30	12.2	<0.2	<10	330	0.71	0.27	1.22	1.19	26.9	9.0	30
DD026787		0.17	0.002	0.55	1.32	8.9	<0.2	<10	420	0.78	0.32	1.79	1.63	34.6	11.6	41
DD026788		0.22	0.003	0.67	1.10	8.9	<0.2	<10	670	0.55	0.21	1.84	1.18	30.2	7.6	29
DD026789		0.28	0.001	0.21	1.61	8.8	<0.2	<10	330	0.49	0.30	0.76	0.66	22.4	5.2	29
DD026790		0.26	0.001	0.10	1.23	8.2	<0.2	<10	370	0.45	0.25	0.65	0.69	22.2	5.4	22
DD026791		0.24	0.003	0.27	1.21	12.7	<0.2	<10	240	0.68	0.22	1.78	2.72	32.2	9.8	24
DD026792		0.27	0.001	0.16	1.41	10.7	<0.2	<10	460	0.66	0.24	0.84	0.47	28.0	8.0	25
DD026793		0.30	0.003	0.24	1.01	9.3	<0.2	<10	280	0.51	0.18	0.58	0.58	19.90	5.9	21
DD026794		0.27	0.002	0.14	1.03	8.8	<0.2	<10	300	0.41	0.20	0.27	0.39	15.30	5.2	20
DD026795		0.33	0.003	0.38	1.38	12.9	<0.2	<10	420	0.66	0.22	0.35	0.27	28.6	7.3	28
DD026796		0.41	0.005	3.59	0.81	28.6	<0.2	10	1590	0.65	0.20	0.83	1.28	13.80	4.6	36
DD026797		0.31	0.004	2.89	1.06	33.0	<0.2	<10	1030	0.94	0.34	0.69	6.43	32.0	5.7	125
DD026798		0.30	0.004	0.22	1.17	32.0	<0.2	<10	180	0.74	0.19	3.28	11.10	14.25	11.5	17
DD026799		0.20	0.003	0.20	1.29	42.7	<0.2	<10	240	0.83	0.22	2.84	3.83	21.0	10.6	21
DD026800		0.42	0.003	0.27	2.01	63.4	<0.2	<10	380	2.67	0.18	8.76	16.85	24.9	77.3	22





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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026767		15.55	30.9	3.57	1.13	<0.05	0.04	0.20	0.029	0.13	15.7	3.4	0.06	240	2.29	0.01
DD026768		6.57	25.0	2.33	0.95	<0.05	0.06	0.11	0.031	0.09	11.6	1.6	3.04	109	2.23	0.01
DD026769		9.86	23.6	1.90	1.09	0.05	0.08	0.12	0.026	0.09	11.3	3.7	0.10	177	3.15	0.01
DD026770		1.61	31.5	2.37	0.66	<0.05	0.03	0.29	0.033	0.05	13.3	1.8	0.05	90	1.71	0.01
DD026771		6.83	26.2	2.52	1.26	<0.05	<0.02	0.08	0.022	0.06	3.0	1.2	0.02	43	1.74	0.01
DD026772		6.68	29.0	2.61	2.24	<0.05	<0.02	0.04	0.022	0.05	4.3	5.8	0.08	161	2.33	0.01
DD026773		8.83	27.3	2.81	3.63	<0.05	<0.02	0.06	0.031	0.06	6.6	7.7	0.11	276	2.05	0.01
DD026774		6.31	20.8	1.97	1.87	0.05	0.05	0.60	0.028	0.07	9.4	7.3	0.37	201	2.33	0.01
DD026775		10.15	32.9	2.48	1.00	<0.05	0.04	0.25	0.028	0.11	13.9	2.9	0.78	138	5.27	0.01
DD026776		4.20	24.5	2.08	1.04	<0.05	0.05	0.19	0.022	0.06	12.7	3.3	0.74	218	3.43	0.01
DD026777		5.32	60.1	2.58	0.80	0.06	0.11	0.20	0.032	0.10	16.4	4.2	0.11	160	3.75	0.01
DD026778		5.99	50.4	2.61	0.91	0.06	0.04	0.21	0.035	0.10	17.5	4.3	0.10	116	4.61	0.01
DD026779		7.73	52.3	2.53	1.24	0.06	0.05	0.24	0.039	0.11	16.9	3.4	0.15	180	9.25	0.01
DD026780		3.20	15.9	1.84	1.02	<0.05	0.05	0.09	0.023	0.06	10.9	2.5	6.81	288	2.95	0.02
DD026781		4.92	22.8	2.42	1.49	0.05	0.06	0.20	0.032	0.07	14.8	2.8	3.80	346	3.81	0.02
DD026782		0.71	8.0	0.87	0.66	<0.05	0.02	0.04	0.019	0.02	13.3	1.6	9.50	382	1.45	0.02
DD026783		11.90	24.5	2.35	1.59	<0.05	0.03	0.13	0.030	0.10	14.0	3.4	0.09	88	1.60	0.01
DD026784		3.01	29.8	3.08	2.35	<0.05	0.03	0.38	0.028	0.06	10.6	10.9	0.18	521	3.97	0.02
DD026785		5.52	43.2	3.74	1.31	<0.05	0.07	0.27	0.038	0.08	11.1	6.4	0.15	277	3.42	0.01
DD026786		0.79	22.0	2.66	3.54	0.05	0.03	0.13	0.037	0.07	20.4	11.1	0.27	457	4.92	0.01
DD026787		0.96	20.3	2.71	3.39	0.13	0.05	0.21	0.040	0.06	48.5	10.9	0.21	780	1.38	0.02
DD026788		0.89	19.1	2.61	2.82	0.09	0.04	0.14	0.039	0.06	34.2	9.9	0.24	342	1.61	0.02
DD026789		1.37	11.9	2.58	5.30	0.05	<0.02	0.04	0.027	0.05	14.2	13.7	0.24	431	1.53	0.01
DD026790		1.04	11.9	2.48	4.56	<0.05	0.03	0.03	0.022	0.07	13.4	9.8	0.15	231	1.36	0.01
DD026791		0.61	17.6	2.78	3.30	0.06	0.03	0.09	0.029	0.08	21.6	13.7	0.49	508	1.79	0.01
DD026792		0.86	14.2	2.79	4.07	0.05	0.03	0.04	0.029	0.08	15.9	10.5	0.27	666	1.67	0.01
DD026793		0.93	16.5	2.28	2.71	<0.05	0.03	0.05	0.025	0.06	11.3	9.7	0.29	196	1.42	0.01
DD026794		1.07	13.8	2.09	3.87	<0.05	<0.02	0.02	0.019	0.06	7.5	7.3	0.18	389	1.70	0.01
DD026795		1.05	20.0	2.82	3.78	<0.05	0.02	0.07	0.028	0.06	11.1	12.5	0.29	333	1.68	0.01
DD026796		0.83	41.6	2.79	1.69	0.07	0.03	0.15	0.040	0.12	10.4	3.9	0.04	118	7.36	0.01
DD026797		0.87	51.0	3.65	3.88	0.10	0.02	0.11	0.043	0.13	30.4	10.9	0.14	186	28.6	0.01
DD026798		1.12	26.0	1.62	2.88	<0.05	0.05	0.14	0.021	0.05	10.3	5.5	0.16	424	4.11	0.02
DD026799		0.93	21.2	2.13	3.20	<0.05	0.02	0.10	0.023	0.05	9.7	7.3	0.25	711	1.76	0.01
DD026800		1.69	89.8	2.64	2.48	0.05	0.10	0.30	0.025	0.08	14.4	11.9	0.45	1210	5.51	0.02

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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD026767		0.07	55.6	840	25.8	14.7	0.003	0.10	1.51	4.2	2.0	0.2	32.4	<0.01	0.15	1.8
DD026768		<0.05	47.0	840	128.5	8.0	0.003	0.07	3.02	3.4	2.3	0.3	77.9	<0.01	0.10	2.8
DD026769		0.12	44.0	900	15.7	11.2	0.001	0.15	1.98	1.5	2.0	0.2	27.3	<0.01	0.06	0.8
DD026770		0.06	47.4	460	20.8	5.1	0.001	0.05	2.69	3.4	2.0	<0.2	18.1	<0.01	0.04	1.4
DD026771		0.12	29.1	530	16.7	7.8	0.002	0.03	1.56	1.3	0.9	0.2	7.9	<0.01	0.07	0.6
DD026772		0.19	29.6	580	16.2	9.8	0.003	0.04	1.26	0.6	1.4	0.3	12.4	<0.01	0.03	<0.2
DD026773		0.18	26.5	830	15.1	16.1	0.001	0.05	1.09	0.3	1.1	0.4	15.8	<0.01	0.07	<0.2
DD026774		0.22	28.7	1040	35.4	10.6	0.002	0.12	2.98	1.7	2.1	0.3	33.4	<0.01	0.09	0.5
DD026775		0.10	60.4	740	58.8	9.5	0.003	0.19	4.12	3.4	3.0	0.3	26.2	<0.01	0.09	2.1
DD026776		0.12	44.0	1100	30.3	6.1	0.002	0.07	4.17	2.6	2.8	0.2	23.7	<0.01	0.20	0.9
DD026777		<0.05	108.5	1500	17.6	8.1	0.002	0.06	2.87	4.0	5.4	0.2	19.9	<0.01	0.10	3.4
DD026778		0.05	92.7	1430	26.7	8.7	0.004	0.11	4.06	3.3	4.8	0.4	42.0	<0.01	0.10	1.6
DD026779		0.07	98.5	1510	53.0	10.6	0.004	0.14	7.56	3.8	6.3	0.5	64.1	<0.01	0.16	2.1
DD026780		0.08	32.7	1180	25.3	5.7	0.003	0.12	4.46	2.1	2.7	0.2	60.8	<0.01	0.16	0.7
DD026781		0.10	43.8	1570	35.4	7.0	0.001	0.14	5.86	2.1	4.3	0.3	54.2	<0.01	0.13	0.7
DD026782		0.06	14.8	850	13.4	2.4	0.003	0.05	1.58	1.1	1.4	<0.2	75.6	<0.01	0.08	0.4
DD026783		0.14	27.3	690	14.6	12.2	0.004	0.06	0.98	2.7	1.3	0.3	16.7	<0.01	0.11	1.5
DD026784		0.36	80.9	950	12.8	7.7	0.002	0.10	1.07	1.9	2.2	0.4	44.0	<0.01	0.04	0.6
DD026785		0.10	58.2	1090	16.9	8.0	0.003	0.09	1.52	4.6	2.7	0.3	29.8	<0.01	0.08	1.2
DD026786		0.52	42.6	1120	15.5	8.2	0.002	0.09	0.89	2.1	2.4	0.5	46.3	<0.01	0.03	0.5
DD026787		0.47	31.6	1720	20.2	8.2	0.002	0.11	0.80	3.3	3.5	0.4	50.3	0.01	0.24	0.8
DD026788		0.41	30.0	1240	13.0	6.6	0.001	0.11	0.77	2.6	2.3	0.4	56.1	<0.01	0.05	0.7
DD026789		0.41	16.5	1230	15.8	8.5	0.001	0.07	0.52	1.6	0.6	0.6	24.9	<0.01	0.07	0.3
DD026790		0.54	16.6	600	14.1	10.4	0.001	0.04	0.59	2.5	0.9	0.6	22.7	<0.01	0.03	1.3
DD026791		0.45	24.7	980	19.9	7.7	0.002	0.08	0.88	2.6	1.0	0.4	31.4	<0.01	0.07	0.7
DD026792		0.40	19.7	1770	17.2	8.9	0.001	0.10	0.68	1.9	0.9	0.4	28.1	<0.01	0.06	0.7
DD026793		0.44	25.5	870	11.3	7.1	0.001	0.04	0.81	2.7	0.9	0.3	28.0	<0.01	0.05	1.4
DD026794		0.17	18.0	1050	10.8	9.9	<0.001	0.05	0.64	0.5	0.6	0.5	19.3	<0.01	0.03	<0.2
DD026795		0.25	30.0	1230	13.1	11.0	0.001	0.04	0.76	1.4	1.4	0.4	28.3	<0.01	0.07	0.5
DD026796		0.06	79.6	3700	11.7	8.4	0.004	0.24	1.71	4.4	4.8	0.4	306	<0.01	0.10	1.7
DD026797		0.15	121.0	2990	19.5	13.8	0.003	0.32	5.81	2.3	15.1	0.5	248	<0.01	0.25	0.7
DD026798		0.56	82.8	1360	9.2	5.3	0.002	0.20	2.29	1.2	2.3	0.4	35.8	<0.01	0.11	0.3
DD026799		0.52	51.3	1490	11.5	6.2	<0.001	0.18	1.64	1.1	0.8	0.4	29.8	<0.01	0.07	0.3
DD026800		0.34	396	1540	11.8	6.4	0.001	0.05	2.99	4.8	3.0	0.4	89.1	<0.01	0.08	2.4

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**CERTIFICATE OF ANALYSIS WH12149083**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026767		<0.005	0.41	1.29	20	<0.05	18.30	211	1.3
DD026768		<0.005	0.65	0.92	29	<0.05	16.35	526	3.1
DD026769		<0.005	0.32	1.06	17	<0.05	17.50	208	2.7
DD026770		<0.005	0.26	0.41	11	<0.05	16.25	228	1.2
DD026771		<0.005	0.18	0.41	19	<0.05	3.13	152	<0.5
DD026772		0.012	0.17	0.68	28	0.10	3.55	144	<0.5
DD026773		0.009	0.21	0.53	41	0.11	3.44	126	<0.5
DD026774		0.007	0.37	1.59	33	0.08	12.20	559	1.3
DD026775		<0.005	1.25	1.70	32	0.07	18.30	1450	1.7
DD026776		0.005	0.67	1.32	32	0.10	22.2	687	1.4
DD026777		<0.005	0.79	2.03	27	0.05	25.9	564	5.7
DD026778		<0.005	0.82	2.28	30	0.09	26.4	464	1.6
DD026779		<0.005	1.59	2.73	51	0.12	26.3	882	2.0
DD026780		<0.005	0.92	1.80	27	0.10	24.2	519	1.8
DD026781		<0.005	0.82	2.52	39	0.10	32.7	1180	2.0
DD026782		<0.005	0.19	0.84	23	0.06	27.3	522	1.0
DD026783		0.005	0.19	0.94	19	<0.05	6.81	137	1.0
DD026784		0.010	0.18	0.66	33	0.11	14.45	291	0.9
DD026785		0.005	0.22	0.75	22	0.07	19.75	221	1.8
DD026786		0.015	0.10	3.11	49	0.11	23.3	192	0.7
DD026787		0.016	0.13	1.79	47	0.11	74.7	175	1.4
DD026788		0.015	0.14	1.67	41	0.16	46.3	143	1.1
DD026789		0.012	0.20	0.99	60	0.22	13.50	132	<0.5
DD026790		0.014	0.15	0.82	53	0.20	11.95	87	0.9
DD026791		0.015	0.09	0.80	41	0.30	27.4	175	0.8
DD026792		0.014	0.11	1.62	48	0.14	20.4	100	0.9
DD026793		0.020	0.10	1.01	38	0.30	11.45	126	1.1
DD026794		0.010	0.12	0.72	47	0.21	4.51	83	<0.5
DD026795		0.010	0.12	1.33	50	0.19	10.80	138	0.5
DD026796		<0.005	0.27	3.88	77	0.09	35.9	275	1.0
DD026797		0.005	1.09	6.18	181	0.32	36.8	500	0.8
DD026798		0.017	0.43	3.00	51	0.23	24.2	316	1.6
DD026799		0.015	0.18	1.88	47	0.19	10.00	245	0.8
DD026800		0.012	2.01	3.46	80	0.21	90.1	1780	3.5



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Project: ATAC- Regional Area F (Crag N)

**CERTIFICATE OF ANALYSIS WH12149083**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12150334**

Project: ATAC- Regional Area D (San)  
 P.O. No.: Soil 10  
 This report is for 142 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------


<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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 Finalized Date: 16- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66159		0.18	0.005	0.35	0.93	14.8	<0.2	<10	100	0.44	0.21	0.07	0.45	14.45	8.4	16
ZZ66160		0.18	0.004	0.24	0.68	11.2	<0.2	<10	170	0.91	0.30	0.27	0.29	8.61	14.4	12
ZZ66161		0.19	0.002	0.13	0.76	9.8	<0.2	<10	160	0.78	0.32	0.06	0.45	12.00	14.2	11
ZZ66162		0.16	0.003	0.65	0.67	35.4	<0.2	<10	110	0.53	0.22	0.04	2.57	8.26	9.9	12
ZZ66163		0.24	0.003	0.15	1.37	18.7	<0.2	<10	120	0.78	0.30	0.06	0.89	17.20	15.1	24
ZZ66164		0.13	0.002	0.24	1.34	22.5	<0.2	<10	80	0.63	0.29	0.03	0.79	15.20	13.1	24
ZZ66165		0.18	0.002	0.11	1.34	18.1	<0.2	<10	80	0.51	0.31	0.03	0.50	15.85	10.1	26
ZZ66166		0.28	0.003	0.75	1.51	12.2	<0.2	<10	560	0.79	0.27	0.62	0.97	12.70	9.1	23
ZZ66167		0.23	0.003	0.08	1.26	10.2	<0.2	<10	90	0.35	0.29	0.05	0.28	21.7	6.6	22
ZZ66168		0.25	0.003	0.05	1.75	11.5	<0.2	<10	90	0.33	0.29	0.06	0.16	25.8	7.5	30
ZZ66169		0.18	0.003	0.05	1.69	21.1	<0.2	<10	130	0.63	0.29	0.03	0.43	21.0	13.4	29
ZZ66170		0.18	0.003	0.04	1.05	15.5	<0.2	<10	110	0.29	0.29	0.03	0.16	19.20	7.7	22
ZZ66171		0.21	0.003	0.07	1.93	16.5	<0.2	<10	210	0.87	0.32	0.06	0.31	27.4	11.5	30
ZZ66172		0.21	0.002	0.07	1.85	31.1	<0.2	<10	150	0.80	0.27	0.28	0.25	22.3	13.2	33
ZZ66173		0.16	0.003	0.07	1.32	18.4	<0.2	<10	110	0.28	0.31	0.04	0.16	29.8	12.3	26
ZZ66174		0.15	0.004	0.04	2.22	13.7	<0.2	<10	180	0.77	0.27	0.14	0.28	32.6	9.6	34
ZZ66175		0.14	0.003	0.04	1.93	18.5	<0.2	<10	110	0.52	0.32	0.05	0.25	24.5	11.1	32
ZZ66176		0.17	0.003	0.08	2.20	52.8	<0.2	<10	130	1.42	0.55	0.05	0.28	18.35	24.7	34
ZZ66177		0.33	0.002	0.08	2.58	14.9	<0.2	<10	310	1.43	0.45	0.16	0.14	20.9	22.5	37
ZZ66178		0.24	0.004	0.25	2.08	12.7	<0.2	<10	260	1.73	0.52	0.36	0.11	19.05	12.9	35
ZZ66179		0.19	0.003	0.05	1.49	18.7	<0.2	<10	120	0.44	0.30	0.04	0.27	20.3	11.5	26
ZZ66180		0.25	0.003	0.04	1.68	14.5	<0.2	<10	360	0.58	0.26	0.12	0.13	27.4	8.1	28
ZZ66181		0.31	0.004	0.07	1.96	23.2	<0.2	<10	900	1.16	0.29	0.11	0.28	32.8	16.4	29
ZZ66182		0.17	0.006	0.19	1.10	37.8	<0.2	<10	350	0.78	0.24	1.12	0.23	14.75	7.8	20
ZZ66183		0.30	0.004	0.12	0.64	63.8	<0.2	<10	210	1.01	0.38	1.33	0.17	16.85	17.0	16
ZZ66184		0.14	0.004	0.05	1.65	66.2	<0.2	<10	260	0.51	0.24	0.21	0.15	28.3	8.0	27
ZZ66185		0.24	0.005	0.17	1.12	455	<0.2	<10	270	0.58	0.16	6.89	0.58	21.7	7.9	17
ZZ66186		0.21	0.004	0.18	1.32	386	<0.2	<10	230	0.68	0.24	1.59	1.06	21.8	10.2	21
ZZ66187		0.23	0.006	0.19	0.50	104.0	<0.2	<10	150	0.54	0.20	8.46	0.27	15.55	9.0	10
ZZ66188		0.18	0.006	0.19	0.69	126	<0.2	<10	130	0.65	0.14	10.50	0.57	14.05	7.5	11
ZZ66189		0.22	0.004	0.15	0.79	142.0	<0.2	<10	160	0.59	0.19	8.19	0.68	17.80	13.9	13
ZZ66190		0.29	0.005	0.23	1.80	91.3	<0.2	<10	220	1.04	0.29	0.42	0.58	30.2	11.3	27
ZZ66191		0.18	0.009	0.15	1.82	125.0	<0.2	<10	240	0.86	0.29	0.62	0.38	20.7	9.3	28
ZZ66192		0.23	0.004	0.08	1.63	24.1	<0.2	<10	190	0.92	0.30	0.07	0.36	32.6	14.1	26
ZZ66193		0.26	0.003	0.08	1.53	12.1	<0.2	<10	150	0.52	0.29	0.07	0.18	21.6	7.3	27
ZZ66194		0.29	0.003	0.04	0.64	131.5	<0.2	<10	180	0.36	0.51	0.14	0.21	14.20	9.7	10
ZZ66195		0.24	0.003	0.07	0.85	49.0	<0.2	<10	160	0.57	0.30	0.57	0.08	10.85	9.2	18
ZZ66196		0.27	0.002	0.10	1.62	20.8	<0.2	<10	160	0.44	0.27	0.10	0.19	24.5	5.4	26
ZZ66197		0.10	0.004	0.13	0.80	34	<0.2	<10	400	0.43	0.13	10.60	0.53	33.5	7.5	13
ZZ66198		0.14	0.004	0.19	1.44	24.4	<0.2	<10	1860	0.70	0.22	3.22	0.42	33.5	10.2	24

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ66159		1.90	41.8	2.83	3.54	<0.05	0.02	0.07	0.032	0.08	7.0	5.1	0.12	128	7.33	0.01
ZZ66160		2.61	54.5	2.77	2.28	<0.05	0.03	0.05	0.029	0.09	5.3	6.9	0.14	1110	2.88	0.01
ZZ66161		1.91	22.8	2.61	2.92	<0.05	<0.02	0.07	0.031	0.10	5.1	4.9	0.09	2010	1.50	0.01
ZZ66162		2.41	53.2	2.72	3.38	<0.05	<0.02	0.06	0.037	0.08	3.8	2.1	0.04	408	12.45	0.01
ZZ66163		2.78	25.8	4.00	4.76	<0.05	<0.02	0.04	0.038	0.07	8.0	16.6	0.27	1040	5.22	0.01
ZZ66164		1.67	39.6	4.28	4.39	<0.05	0.02	0.78	0.042	0.06	6.8	18.1	0.27	597	6.91	0.01
ZZ66165		1.82	25.5	3.71	5.26	<0.05	<0.02	0.11	0.039	0.05	7.6	14.7	0.30	345	3.25	0.01
ZZ66166		2.98	29.2	3.02	4.93	0.05	0.10	0.07	0.030	0.08	6.1	21.9	0.37	341	5.54	0.02
ZZ66167		1.99	16.3	2.52	6.38	0.05	<0.02	0.04	0.021	0.05	10.4	10.2	0.21	424	1.90	0.01
ZZ66168		1.91	13.1	3.01	7.92	0.06	<0.02	0.03	0.027	0.05	12.3	15.0	0.33	381	1.58	0.01
ZZ66169		1.71	29.9	4.42	5.53	0.06	0.02	0.11	0.038	0.06	9.1	25.5	0.42	589	2.22	0.01
ZZ66170		1.70	17.8	3.22	6.14	0.06	<0.02	0.03	0.025	0.06	8.8	7.4	0.17	562	2.30	<0.01
ZZ66171		2.53	18.9	3.68	6.87	0.07	0.02	0.04	0.037	0.07	11.7	25.1	0.36	716	2.16	0.01
ZZ66172		2.36	28.7	4.09	6.14	0.08	0.02	1.53	0.038	0.06	9.4	26.1	0.44	800	2.91	0.01
ZZ66173		2.29	23.0	4.05	7.35	0.09	<0.02	0.04	0.028	0.06	13.1	9.9	0.27	740	4.04	0.01
ZZ66174		2.18	14.5	3.44	7.37	0.08	<0.02	0.04	0.032	0.07	14.4	23.2	0.49	450	1.73	0.01
ZZ66175		2.04	21.9	4.16	7.02	0.08	<0.02	0.04	0.037	0.07	10.7	25.3	0.46	495	2.02	0.01
ZZ66176		4.67	82.0	3.97	6.98	0.07	0.07	0.06	0.051	0.08	8.0	38.2	0.49	1540	8.71	0.01
ZZ66177		4.36	21.9	4.62	9.80	0.09	0.07	0.01	0.038	0.06	8.3	49.3	0.71	403	0.52	0.01
ZZ66178		8.17	42.3	3.98	8.46	0.09	0.14	0.13	0.037	0.08	9.9	29.8	0.59	454	0.60	0.02
ZZ66179		2.13	21.3	3.83	6.18	0.07	<0.02	0.04	0.030	0.06	8.7	14.0	0.30	615	2.11	0.01
ZZ66180		1.84	19.8	2.93	6.10	0.08	<0.02	0.04	0.026	0.05	12.1	19.6	0.40	366	1.72	0.01
ZZ66181		1.67	27.9	4.20	5.78	0.10	0.06	0.08	0.040	0.06	11.4	28.9	0.46	789	2.20	0.02
ZZ66182		1.64	16.0	2.68	3.49	0.07	0.08	0.89	0.028	0.06	7.2	11.5	0.31	378	0.65	0.02
ZZ66183		0.76	36.9	4.43	2.07	0.09	0.05	0.89	0.047	0.06	8.3	6.7	0.75	864	0.68	0.01
ZZ66184		1.43	13.0	2.81	6.30	0.07	<0.02	0.34	0.022	0.05	11.9	13.4	0.37	480	1.33	0.01
ZZ66185		0.69	14.4	4.06	3.52	0.09	0.06	3.97	0.024	0.04	14.5	8.9	4.29	2590	0.88	0.02
ZZ66186		0.95	17.3	3.50	4.17	0.06	0.08	13.15	0.030	0.05	11.7	9.9	0.78	1270	0.90	0.02
ZZ66187		1.01	15.8	2.53	1.53	0.06	0.07	4.08	0.018	0.04	8.4	3.4	5.18	886	0.50	0.02
ZZ66188		0.58	10.9	3.07	2.05	0.06	0.04	2.98	0.015	0.04	7.8	4.5	6.40	2240	0.64	0.02
ZZ66189		1.26	14.6	3.51	2.57	0.07	0.04	4.96	0.025	0.08	8.9	6.8	4.94	1940	0.93	0.02
ZZ66190		2.39	17.9	4.20	6.12	0.08	0.03	20.6	0.033	0.06	13.5	17.8	0.40	1140	1.36	0.01
ZZ66191		2.49	15.4	3.75	6.83	0.06	0.05	4.65	0.035	0.09	10.5	15.3	0.42	639	1.17	0.02
ZZ66192		1.84	27.4	3.70	5.76	0.08	0.03	0.75	0.034	0.06	12.6	21.4	0.38	738	2.13	0.01
ZZ66193		1.68	17.2	2.99	6.29	0.06	<0.02	0.04	0.028	0.05	10.2	19.5	0.33	257	1.58	0.01
ZZ66194		1.70	29.0	2.30	2.58	0.05	<0.02	2.25	0.026	0.06	6.5	6.0	0.11	279	1.67	0.01
ZZ66195		1.12	21.8	3.14	2.94	0.05	0.05	0.42	0.035	0.04	4.7	4.7	0.11	268	0.80	0.01
ZZ66196		1.70	10.2	2.55	6.48	0.05	<0.02	0.37	0.028	0.05	10.6	16.8	0.31	246	1.29	0.01
ZZ66197		0.60	15.9	3.57	2.44	0.09	0.07	0.54	0.019	0.04	17.6	5.8	6.37	3030	0.69	0.03
ZZ66198		0.99	16.4	3.35	4.46	0.08	0.06	0.73	0.029	0.05	16.1	12.2	1.72	1320	1.18	0.06

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ66159	0.23	27.8	1280	14.4	9.8	0.001	0.09	3.02	0.6	1.8	0.5	10.3	<0.01	0.09	0.2	
ZZ66160	0.23	27.3	710	20.7	9.4	0.001	0.06	1.46	4.2	1.4	0.3	15.7	<0.01	0.04	0.8	
ZZ66161	0.26	21.6	630	27.2	12.6	0.001	0.05	0.73	3.5	0.6	0.6	9.8	<0.01	0.03	0.7	
ZZ66162	0.15	34.9	660	13.8	12.5	0.003	0.02	5.06	2.4	3.2	0.6	6.0	<0.01	0.06	0.4	
ZZ66163	0.71	25.0	570	21.6	13.6	0.001	0.02	2.13	2.6	0.9	0.6	9.1	<0.01	0.09	1.2	
ZZ66164	0.53	30.7	790	23.2	12.7	0.003	0.03	2.44	2.7	1.7	0.5	7.9	<0.01	0.08	1.2	
ZZ66165	0.55	22.9	600	22.1	10.1	0.001	0.04	1.30	1.3	0.9	0.6	8.4	<0.01	0.07	0.3	
ZZ66166	0.40	29.2	1470	13.8	20.5	0.003	0.07	1.85	3.0	2.1	0.5	32.3	<0.01	0.05	1.1	
ZZ66167	0.33	14.7	680	12.5	16.9	<0.001	0.04	0.67	0.7	0.6	0.8	8.9	<0.01	0.04	<0.2	
ZZ66168	0.34	16.1	710	15.2	15.6	<0.001	0.02	0.58	0.8	0.8	0.8	10.0	<0.01	0.05	<0.2	
ZZ66169	0.58	29.0	560	21.8	13.6	0.001	0.02	0.86	2.7	1.0	0.5	8.8	<0.01	0.06	0.9	
ZZ66170	0.23	16.3	820	15.7	17.8	<0.001	0.03	0.78	0.6	0.7	0.7	7.9	<0.01	0.06	<0.2	
ZZ66171	0.56	21.7	810	18.4	19.2	0.001	0.03	0.73	1.7	0.8	0.7	10.4	<0.01	0.07	0.4	
ZZ66172	0.39	27.1	1240	19.4	15.8	0.001	0.03	1.46	1.5	1.8	0.6	19.8	<0.01	0.05	0.5	
ZZ66173	0.25	21.0	1050	14.8	14.8	0.001	0.05	0.93	0.6	0.8	0.8	8.4	<0.01	0.06	<0.2	
ZZ66174	0.61	22.4	780	14.7	18.3	<0.001	0.03	0.67	1.8	0.9	0.7	12.9	<0.01	0.07	0.4	
ZZ66175	0.57	24.2	480	20.5	15.3	<0.001	0.03	0.83	1.6	0.8	0.7	9.8	<0.01	0.08	0.3	
ZZ66176	0.53	30.8	770	137.0	14.1	<0.001	0.03	0.68	3.6	0.9	0.6	9.5	<0.01	0.07	1.7	
ZZ66177	0.21	37.1	240	24.9	14.7	<0.001	<0.01	0.14	5.6	0.4	0.7	20.5	<0.01	0.03	5.1	
ZZ66178	0.28	34.1	430	29.6	19.1	0.001	0.03	0.37	6.7	0.9	0.6	26.1	<0.01	0.05	4.3	
ZZ66179	0.42	20.3	740	18.6	14.6	<0.001	0.02	0.70	1.2	0.7	0.6	8.6	<0.01	0.07	0.3	
ZZ66180	0.44	20.8	720	13.1	12.5	<0.001	0.03	0.68	1.5	0.7	0.6	12.1	<0.01	0.06	0.3	
ZZ66181	0.49	36.3	660	21.9	14.6	<0.001	0.01	0.73	4.8	1.0	0.5	14.1	<0.01	0.06	3.0	
ZZ66182	0.41	18.9	1180	32.5	12.4	<0.001	0.10	0.96	3.0	1.2	0.5	34.4	<0.01	0.04	1.1	
ZZ66183	0.18	32.7	280	26.8	6.5	<0.001	0.01	2.08	7.5	0.7	0.5	37.0	<0.01	0.03	2.9	
ZZ66184	0.43	20.8	590	19.3	12.0	<0.001	0.02	1.36	1.3	0.5	0.7	13.3	<0.01	0.04	0.3	
ZZ66185	0.35	20.5	800	128.0	7.5	0.001	0.05	9.22	3.5	0.9	0.4	44.2	0.01	0.05	1.2	
ZZ66186	0.45	23.1	1340	125.5	8.0	0.001	0.08	6.89	3.3	1.0	0.5	29.8	0.01	0.05	1.1	
ZZ66187	0.16	20.8	840	75.2	4.3	0.001	0.05	8.33	4.1	0.9	0.4	109.0	<0.01	0.05	1.1	
ZZ66188	0.22	13.7	1280	125.5	4.6	<0.001	0.08	15.05	2.7	0.9	0.3	63.1	<0.01	0.06	0.4	
ZZ66189	0.23	22.6	1470	100.0	5.8	<0.001	0.08	9.23	3.1	0.9	0.4	62.1	<0.01	0.05	0.7	
ZZ66190	0.43	27.2	1080	102.0	17.6	<0.001	0.03	6.00	3.1	0.7	0.7	20.7	0.01	0.06	0.8	
ZZ66191	0.53	22.9	1510	151.0	19.3	<0.001	0.05	5.98	2.8	0.6	0.7	27.1	0.01	0.05	0.9	
ZZ66192	0.39	29.4	870	33.9	16.1	<0.001	0.02	1.10	2.2	0.8	0.6	10.6	<0.01	0.04	0.7	
ZZ66193	0.47	19.5	610	14.4	15.4	<0.001	0.02	0.58	1.2	0.5	0.6	9.3	<0.01	0.04	0.4	
ZZ66194	0.21	20.5	240	42.9	11.7	<0.001	0.01	7.65	2.9	0.3	0.4	47.6	<0.01	0.07	2.1	
ZZ66195	0.28	21.9	820	17.6	9.6	<0.001	0.03	0.93	3.6	0.5	0.5	25.5	<0.01	0.03	1.3	
ZZ66196	0.35	15.5	960	21.1	17.1	<0.001	0.05	0.88	1.0	0.5	0.6	11.2	<0.01	0.03	0.2	
ZZ66197	0.33	15.5	1200	252	6.3	<0.001	0.06	2.32	2.6	0.9	0.3	50.3	0.01	0.06	1.0	
ZZ66198	0.58	22.2	1300	129.5	8.2	<0.001	0.10	1.72	2.9	0.9	0.5	25.3	0.01	0.06	1.0	



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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66159		0.005	0.17	1.28	44	0.09	5.68	143	0.5
ZZ66160		0.007	0.10	1.03	21	0.07	11.25	110	0.8
ZZ66161		0.007	0.09	0.68	23	0.08	5.44	94	<0.5
ZZ66162		<0.005	0.35	1.08	56	0.06	5.37	389	<0.5
ZZ66163		0.014	0.22	0.92	47	0.14	4.04	142	<0.5
ZZ66164		0.009	0.22	1.18	49	0.13	4.32	198	0.5
ZZ66165		0.014	0.19	0.73	45	0.15	3.28	99	<0.5
ZZ66166		0.008	0.24	1.37	45	0.11	4.36	188	2.6
ZZ66167		0.017	0.18	0.66	51	0.23	2.47	60	<0.5
ZZ66168		0.016	0.22	0.74	59	0.19	2.59	57	<0.5
ZZ66169		0.011	0.17	0.75	47	0.14	3.99	100	<0.5
ZZ66170		0.010	0.20	0.67	54	0.14	2.77	77	<0.5
ZZ66171		0.015	0.20	0.95	60	0.22	4.96	106	<0.5
ZZ66172		0.011	0.23	0.81	54	0.16	5.28	118	0.5
ZZ66173		0.010	0.23	0.69	64	0.15	2.66	77	<0.5
ZZ66174		0.027	0.18	0.88	61	0.26	5.70	100	<0.5
ZZ66175		0.022	0.16	0.74	57	0.20	3.66	87	<0.5
ZZ66176		0.010	0.11	2.05	38	0.15	5.40	101	1.7
ZZ66177		0.005	0.07	0.87	32	<0.05	6.86	142	2.5
ZZ66178		<0.005	0.07	1.98	27	<0.05	15.30	115	3.6
ZZ66179		0.012	0.16	0.67	55	0.18	2.93	89	<0.5
ZZ66180		0.018	0.17	0.82	54	0.23	4.34	75	<0.5
ZZ66181		0.008	0.18	1.03	54	0.14	8.01	97	1.4
ZZ66182		0.008	0.16	1.67	26	0.22	8.25	136	1.9
ZZ66183		<0.005	0.20	1.21	22	0.07	10.65	129	1.0
ZZ66184		0.019	0.27	0.77	54	0.27	4.15	111	<0.5
ZZ66185		0.012	0.49	1.58	32	0.17	14.95	491	1.5
ZZ66186		0.012	0.42	1.16	36	0.14	10.60	677	1.8
ZZ66187		<0.005	0.71	1.57	15	0.12	12.90	566	1.5
ZZ66188		0.008	0.38	1.62	19	0.08	10.05	569	0.7
ZZ66189		0.007	0.51	1.42	22	0.08	13.70	641	0.8
ZZ66190		0.012	0.66	1.39	49	0.23	9.83	532	0.5
ZZ66191		0.013	0.71	1.25	51	0.17	5.86	558	1.0
ZZ66192		0.011	0.21	0.98	47	0.15	5.90	140	<0.5
ZZ66193		0.013	0.18	0.69	46	0.18	2.92	67	<0.5
ZZ66194		<0.005	1.07	0.44	18	0.09	2.74	231	<0.5
ZZ66195		<0.005	0.15	1.56	27	0.13	3.87	54	1.2
ZZ66196		0.012	0.40	1.84	50	0.17	3.40	269	<0.5
ZZ66197		0.015	0.15	1.52	24	0.22	14.90	108	1.5
ZZ66198		0.020	0.15	1.54	44	0.21	13.45	168	1.4



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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66199		0.11	0.004	0.15	0.78	55.4	<0.2	<10	620	0.50	0.16	8.66	0.52	26.6	9.4	14
ZZ66200		0.14	0.004	0.19	0.48	63.5	<0.2	<10	430	0.39	0.18	8.35	0.60	31.0	11.0	12
ZZ66201		0.14	0.005	0.20	1.56	33.1	<0.2	<10	180	0.83	0.23	2.83	0.68	30.7	11.1	25
ZZ66202		0.17	0.004	0.07	0.50	41	<0.2	<10	60	0.31	0.07	12.70	0.48	11.85	4.3	7
ZZ66203		0.16	0.004	0.20	1.09	56.8	<0.2	<10	200	0.71	0.21	1.34	0.47	29.1	9.0	19
ZZ66204		0.21	0.001	0.07	0.51	14.9	<0.2	<10	110	0.71	0.26	0.36	0.08	16.25	5.0	7
ZZ66205		0.20	0.001	0.07	1.64	17.3	<0.2	<10	230	0.72	0.28	0.61	0.15	27.6	8.6	26
ZZ66206		0.26	0.002	0.08	1.32	31.7	<0.2	<10	210	1.12	0.33	1.41	0.38	23.2	9.2	16
ZZ66207		0.16	0.002	0.12	1.42	109.5	<0.2	<10	250	1.05	0.21	6.17	1.13	39.4	8.8	17
ZZ66208		0.21	0.002	0.06	0.36	58	<0.2	<10	120	0.45	0.14	12.85	0.23	18.45	6.8	7
ZZ66209		0.13	0.003	0.11	0.84	237	<0.2	<10	330	0.64	0.22	8.59	0.53	35.3	11.0	15
ZZ66210		0.17	0.001	0.12	2.72	2000	<0.2	<10	300	1.11	0.13	0.48	3.53	16.15	9.5	43
ZZ66211		0.24	0.002	0.32	0.54	21.0	<0.2	<10	70	0.37	0.25	0.06	0.48	7.85	10.6	9
ZZ66212		0.34	0.001	0.03	0.43	3.4	<0.2	<10	170	0.88	0.49	0.03	0.09	8.96	14.6	6
ZZ66213		0.25	0.001	0.09	0.73	18.5	<0.2	<10	200	0.62	0.34	0.07	0.10	12.60	7.6	11
ZZ66214		0.18	0.001	0.11	3.25	404	<0.2	<10	220	3.29	0.12	4.37	5.25	18.10	19.8	18
ZZ66215		0.13	0.003	0.22	1.27	238	<0.2	<10	870	0.75	0.18	1.59	3.75	21.5	15.3	15
ZZ66216		0.15	0.003	0.10	0.81	166.0	<0.2	<10	270	0.50	0.12	9.26	1.78	16.00	8.3	9
ZZ66217		0.18	0.002	0.13	0.65	137.5	<0.2	<10	250	0.50	0.15	8.59	1.15	12.60	10.0	10
ZZ66218		0.15	0.002	0.10	1.13	62.3	<0.2	<10	410	1.26	0.34	0.98	0.36	15.45	10.4	15
ZZ66219		0.19	0.002	0.17	0.93	41.4	<0.2	<10	300	0.86	0.30	1.34	0.38	15.55	9.2	15
ZZ66220		0.23	0.012	0.40	0.37	41.4	<0.2	<10	170	1.06	0.29	0.43	0.58	25.6	24.7	7
ZZ66221		0.25	0.002	0.16	0.82	11.3	<0.2	<10	160	0.47	0.30	0.08	0.44	31.2	8.6	13
ZZ66222		0.24	0.001	0.06	1.47	16.0	<0.2	<10	180	0.73	0.32	0.02	0.25	14.40	10.5	21
ZZ66223		0.25	0.002	0.07	0.86	13.7	<0.2	<10	90	0.28	0.37	0.04	0.11	19.70	5.9	13
ZZ66224		0.24	0.002	0.12	1.85	14.3	<0.2	<10	1140	2.32	0.44	0.40	0.21	15.40	12.1	26
ZZ66225		0.26	0.001	0.15	1.35	15.7	<0.2	<10	360	1.14	0.42	0.36	0.19	13.50	9.0	19
ZZ66226		0.12	0.002	0.09	1.14	13.7	<0.2	<10	130	0.42	0.40	0.03	0.28	11.95	8.3	21
ZZ66227		0.29	0.002	0.06	1.61	17.1	<0.2	<10	270	0.79	0.49	0.06	0.20	22.3	11.3	24
ZZ66228		0.22	0.004	0.15	1.05	14.7	<0.2	<10	250	1.16	0.40	0.29	0.17	12.20	8.2	13
ZZ66229		0.21	0.001	0.07	0.28	21.4	<0.2	<10	70	0.89	0.42	0.10	0.05	8.85	11.0	6
ZZ66230		0.27	0.001	0.08	0.19	16.4	<0.2	<10	50	0.92	0.44	0.05	0.04	7.64	14.4	5
ZZ66231		0.14	0.001	0.03	0.31	32.6	<0.2	<10	40	0.54	0.46	0.02	0.05	7.46	17.9	6
ZZ66232		0.19	0.001	0.04	0.31	7.4	<0.2	<10	40	0.63	0.44	0.03	0.06	9.60	10.5	5
ZZ66233		0.16	0.001	0.03	0.29	43.8	<0.2	<10	30	0.41	0.43	0.02	0.06	7.46	12.4	6
ZZ66234		0.24	0.001	0.04	0.37	14.8	<0.2	<10	50	0.25	0.41	0.03	0.11	11.30	6.3	7
ZZ66235		0.18	0.003	0.05	1.42	19.2	<0.2	<10	160	0.71	0.33	0.04	0.25	23.0	11.2	22
ZZ66236		0.22	0.002	0.05	1.00	17.6	<0.2	<10	100	0.71	0.41	0.03	0.31	16.30	16.5	17
ZZ66237		0.20	0.002	0.06	1.00	35.2	<0.2	<10	460	0.44	0.36	0.14	0.15	17.35	9.6	17
ZZ66238		0.32	0.001	0.11	0.95	10.6	<0.2	<10	360	1.33	0.37	0.42	0.17	26.1	16.9	18





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66199		0.60	19.4	3.45	2.35	0.08	0.06	1.01	0.019	0.05	14.7	7.0	5.20	2270	0.81	0.04
ZZ66200		1.74	26.2	3.10	1.62	0.10	0.08	2.77	0.018	0.06	15.3	3.1	4.73	1560	0.61	0.03
ZZ66201		0.79	18.6	3.66	4.51	0.08	0.06	0.73	0.030	0.05	15.2	13.6	1.64	1820	1.00	0.02
ZZ66202		0.35	9.1	1.90	1.36	0.05	0.04	0.81	0.012	0.02	6.1	3.8	7.57	1040	0.50	0.02
ZZ66203		1.00	18.4	4.14	3.40	0.10	0.07	1.12	0.031	0.05	15.6	9.2	0.54	1960	1.03	0.01
ZZ66204		1.40	10.0	2.42	1.50	0.06	0.07	0.28	0.027	0.05	6.3	3.1	0.06	228	0.48	0.01
ZZ66205		1.96	13.3	3.00	5.51	0.07	0.04	0.09	0.030	0.05	11.7	19.0	0.47	417	1.18	0.01
ZZ66206		2.01	21.5	3.09	3.73	0.07	0.04	0.42	0.032	0.07	10.9	8.6	0.80	761	1.37	0.01
ZZ66207		1.04	17.5	3.72	3.10	0.12	0.06	2.75	0.032	0.05	22.0	8.4	3.91	3100	0.93	0.02
ZZ66208		0.66	12.9	1.83	1.13	0.06	0.07	1.24	0.019	0.05	11.9	2.3	7.38	955	0.36	0.03
ZZ66209		0.48	19.0	3.73	2.39	0.13	0.09	1.90	0.032	0.05	21.9	4.0	4.93	2990	0.58	0.02
ZZ66210		2.11	79.4	8.63	8.38	0.16	0.16	3.01	0.077	0.03	6.3	6.6	0.18	693	0.68	<0.01
ZZ66211		3.79	56.0	3.52	2.87	0.06	0.02	0.11	0.041	0.05	4.3	2.0	0.05	166	8.24	<0.01
ZZ66212		8.73	23.8	2.83	1.64	0.05	<0.02	0.09	0.038	0.10	3.9	1.8	0.05	413	0.56	<0.01
ZZ66213		5.47	21.3	2.78	3.22	0.05	<0.02	0.22	0.035	0.07	6.0	3.5	0.07	240	1.13	0.01
ZZ66214		0.89	50.2	7.31	3.79	0.16	0.12	3.19	0.039	0.05	6.1	7.8	2.43	1810	0.92	0.01
ZZ66215		0.77	17.2	7.09	4.02	0.12	0.06	3.38	0.032	0.04	13.1	4.9	0.59	6050	0.83	0.01
ZZ66216		0.68	16.1	4.02	2.25	0.09	0.07	1.24	0.023	0.03	9.5	4.0	5.28	2560	0.66	0.03
ZZ66217		2.59	21.8	3.13	1.99	0.08	0.06	2.52	0.022	0.07	7.3	6.0	4.90	1200	0.69	0.02
ZZ66218		1.50	24.7	3.48	3.21	0.07	0.10	0.92	0.029	0.08	8.1	9.7	0.32	1070	0.55	0.01
ZZ66219		3.75	24.9	2.61	2.81	0.06	0.08	0.84	0.026	0.09	7.6	9.9	0.43	473	0.71	0.01
ZZ66220		2.70	134.0	5.70	1.17	0.15	0.05	1.50	0.065	0.07	12.7	3.6	0.04	404	3.65	<0.01
ZZ66221		4.49	46.0	3.48	4.85	0.10	0.02	0.11	0.040	0.06	15.5	3.7	0.11	174	2.28	<0.01
ZZ66222		3.57	27.0	3.81	4.91	0.07	0.03	0.06	0.040	0.07	6.8	11.0	0.19	407	2.34	<0.01
ZZ66223		5.25	16.5	2.96	5.04	0.06	<0.02	0.04	0.022	0.06	9.9	3.8	0.08	316	1.92	<0.01
ZZ66224		13.65	32.0	3.85	5.58	0.08	0.06	0.05	0.046	0.10	7.5	41.7	0.39	904	1.85	<0.01
ZZ66225		6.92	27.2	3.37	4.20	0.07	0.11	0.04	0.040	0.09	6.6	17.3	0.35	434	1.77	0.01
ZZ66226		1.79	25.4	3.57	5.61	0.07	<0.02	0.03	0.027	0.08	5.7	7.8	0.19	691	1.47	0.01
ZZ66227		5.27	25.2	3.68	5.87	0.08	0.02	0.43	0.039	0.08	9.8	21.5	0.34	361	1.64	0.01
ZZ66228		18.25	20.4	2.93	3.23	0.06	0.06	0.16	0.039	0.10	6.1	7.4	0.09	765	0.81	0.01
ZZ66229		5.39	25.3	2.91	0.90	0.06	0.02	0.11	0.035	0.06	4.5	2.1	0.03	596	0.45	0.01
ZZ66230		2.93	36.5	3.28	0.64	0.05	0.06	0.13	0.038	0.04	3.6	1.4	0.03	715	0.46	<0.01
ZZ66231		4.87	21.4	3.02	1.11	0.06	0.02	0.05	0.037	0.05	3.3	1.5	0.04	995	0.60	<0.01
ZZ66232		3.58	23.4	2.73	0.90	0.05	0.02	0.07	0.034	0.05	4.7	2.0	0.03	457	0.35	<0.01
ZZ66233		1.70	28.3	2.73	0.89	0.05	<0.02	0.05	0.038	0.05	3.5	1.3	0.03	317	0.48	<0.01
ZZ66234		4.34	21.9	2.31	2.21	0.05	<0.02	0.07	0.025	0.05	5.7	1.0	0.02	258	0.92	0.01
ZZ66235		2.38	21.7	3.66	3.62	0.09	0.02	0.48	0.044	0.06	8.7	16.5	0.28	513	1.80	<0.01
ZZ66236		3.78	23.9	3.64	3.18	0.08	0.02	0.08	0.039	0.07	6.9	9.3	0.19	855	1.39	<0.01
ZZ66237		2.61	17.9	3.30	4.42	0.08	<0.02	0.77	0.032	0.06	8.1	9.2	0.22	360	1.40	<0.01
ZZ66238		1.08	42.6	4.31	2.62	0.05	0.04	0.34	0.054	0.07	11.8	8.5	0.23	769	0.75	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66199		0.31	20.5	1180	112.5	4.8	<0.001	0.08	4.47	2.5	0.9	0.3	56.3	0.01	0.07	0.9
ZZ66200		0.16	24.4	2590	190.5	5.3	0.001	0.06	6.90	3.6	1.1	0.3	90.9	0.01	0.11	1.6
ZZ66201		0.51	25.8	1230	36.2	8.7	<0.001	0.10	1.48	2.6	1.0	0.4	25.4	0.01	0.05	0.9
ZZ66202		0.29	10.7	540	37.4	3.0	0.001	0.02	2.46	2.1	0.7	0.2	64.7	<0.01	0.04	0.6
ZZ66203		0.37	21.5	1230	74.3	6.6	0.001	0.06	2.98	3.3	1.1	0.4	24.3	0.01	0.05	1.1
ZZ66204		0.17	12.7	470	26.6	7.7	<0.001	0.01	0.19	3.4	0.6	0.3	17.0	<0.01	0.03	2.1
ZZ66205		0.80	21.0	1010	18.8	12.9	0.001	0.04	0.59	2.5	0.7	0.6	28.4	0.01	0.04	1.0
ZZ66206		0.45	20.7	580	33.7	16.8	<0.001	0.01	0.78	3.3	0.6	0.6	23.6	<0.01	0.03	1.2
ZZ66207		0.34	21.6	1390	64.4	11.5	0.001	0.04	1.35	3.7	1.2	0.3	56.9	0.01	0.06	1.0
ZZ66208		0.16	11.0	600	21.5	6.1	0.001	0.02	0.68	3.6	0.7	0.2	81.7	<0.01	0.04	1.1
ZZ66209		0.24	19.2	1170	38.9	4.9	0.001	0.04	1.41	4.6	1.2	0.4	102.5	0.01	0.07	0.9
ZZ66210		0.21	30.3	1160	331	3.4	0.001	0.04	44.0	10.4	1.8	0.3	63.4	0.01	0.03	6.8
ZZ66211		0.20	32.1	1100	18.7	9.9	0.001	0.01	2.87	2.2	2.5	0.5	18.7	<0.01	0.08	0.5
ZZ66212		0.13	17.4	250	8.6	13.3	0.001	<0.01	0.17	3.8	0.3	0.4	24.7	<0.01	0.05	2.1
ZZ66213		0.36	15.0	580	17.3	12.4	<0.001	0.02	0.69	2.9	0.5	0.6	18.4	<0.01	0.04	1.1
ZZ66214		0.46	38.9	1080	55.0	7.6	0.001	0.06	15.65	11.8	2.0	0.4	34.0	0.02	0.05	1.5
ZZ66215		0.22	24.1	1550	95.8	7.7	0.001	0.09	16.00	4.5	1.5	0.4	17.4	0.01	0.09	0.4
ZZ66216		0.26	14.6	1180	47.1	4.8	0.001	0.08	9.80	3.9	1.2	0.3	42.0	0.01	0.07	0.3
ZZ66217		0.27	19.4	1050	74.7	6.6	0.001	0.04	10.40	3.5	0.9	0.3	49.4	0.01	0.06	0.7
ZZ66218		0.39	26.8	960	80.6	11.5	<0.001	0.04	4.34	3.9	0.8	0.5	16.0	0.01	0.06	1.9
ZZ66219		0.49	19.6	790	28.1	10.8	<0.001	0.04	2.69	3.7	0.9	0.4	21.2	<0.01	0.05	1.8
ZZ66220		0.07	56.1	2630	28.3	6.5	0.003	<0.01	1.66	7.4	3.7	0.3	52.9	0.01	0.09	2.0
ZZ66221		0.30	18.5	1260	16.1	15.5	0.001	<0.01	1.03	1.3	1.2	0.6	13.3	<0.01	0.07	0.2
ZZ66222		0.61	23.2	560	17.1	15.9	0.001	<0.01	0.89	3.4	1.0	0.7	8.5	<0.01	0.10	1.5
ZZ66223		1.18	12.7	430	15.0	17.9	<0.001	<0.01	0.83	2.2	0.7	0.8	8.6	<0.01	0.06	2.3
ZZ66224		0.50	27.2	870	32.4	20.7	0.001	0.02	0.66	5.6	0.9	0.6	20.3	0.01	0.06	2.0
ZZ66225		0.46	21.6	760	21.1	24.4	0.001	0.03	0.70	5.0	0.7	0.5	24.9	0.01	0.05	2.4
ZZ66226		0.27	14.0	1110	20.5	24.5	<0.001	0.02	0.47	0.9	0.5	0.6	8.1	<0.01	0.05	0.2
ZZ66227		0.79	21.6	530	30.8	16.4	<0.001	0.01	1.39	3.2	0.7	0.8	13.3	<0.01	0.06	1.3
ZZ66228		0.38	16.2	1070	21.0	28.6	<0.001	0.03	0.35	4.9	0.7	0.4	18.7	0.01	0.06	1.1
ZZ66229		0.11	18.5	280	25.1	6.3	<0.001	<0.01	0.26	5.1	0.4	0.2	15.9	<0.01	0.06	1.1
ZZ66230		0.06	24.1	170	28.3	4.1	<0.001	<0.01	0.28	6.1	0.2	0.2	17.1	<0.01	0.08	2.8
ZZ66231		0.09	21.8	210	24.8	6.8	<0.001	<0.01	0.34	4.3	0.3	0.3	10.6	<0.01	0.10	2.2
ZZ66232		0.07	13.6	160	23.9	5.8	<0.001	<0.01	0.25	5.1	0.3	0.2	21.0	<0.01	0.06	2.6
ZZ66233		0.07	20.5	290	18.5	4.1	<0.001	<0.01	0.54	4.0	0.2	0.2	9.3	<0.01	0.06	1.8
ZZ66234		0.25	17.0	500	10.0	10.4	<0.001	0.01	0.50	1.2	0.3	0.5	12.2	<0.01	0.05	<0.2
ZZ66235		0.81	22.4	480	25.1	12.5	<0.001	<0.01	0.67	2.9	0.9	0.5	8.5	<0.01	0.07	1.7
ZZ66236		0.46	22.6	630	24.3	13.4	0.001	0.02	0.88	2.2	0.7	0.4	7.8	<0.01	0.08	0.4
ZZ66237		0.39	18.5	710	27.3	10.0	<0.001	0.02	1.87	1.3	0.7	0.6	15.7	<0.01	0.09	0.2
ZZ66238		0.13	32.7	570	26.0	6.1	<0.001	0.02	0.68	9.8	0.7	0.4	25.2	0.01	0.03	5.0



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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66199		0.014	0.27	1.98	25	0.39	13.65	179	1.5
ZZ66200		0.005	0.52	4.78	16	0.13	23.8	235	1.6
ZZ66201		0.023	0.15	1.36	44	0.19	11.55	242	1.2
ZZ66202		0.011	0.14	1.15	14	0.10	6.94	218	1.2
ZZ66203		0.010	0.23	1.38	32	0.18	15.10	210	1.4
ZZ66204		<0.005	0.14	0.86	10	0.06	7.99	69	1.3
ZZ66205		0.020	0.15	2.09	48	0.25	5.53	95	0.7
ZZ66206		0.007	0.22	0.81	32	0.11	8.01	86	0.5
ZZ66207		0.009	0.28	2.03	24	0.10	22.4	538	0.9
ZZ66208		<0.005	0.27	0.80	11	0.05	8.74	81	1.5
ZZ66209		0.008	0.43	1.43	24	0.10	23.4	81	1.5
ZZ66210		<0.005	7.28	6.94	40	0.10	12.95	2220	4.4
ZZ66211		<0.005	0.20	0.95	82	0.05	3.69	237	<0.5
ZZ66212		<0.005	0.09	0.42	11	<0.05	2.56	89	<0.5
ZZ66213		0.005	0.18	0.61	24	0.08	3.50	86	<0.5
ZZ66214		0.009	0.50	6.54	34	0.11	27.5	2570	1.7
ZZ66215		0.010	0.74	3.05	40	0.11	17.55	1690	0.9
ZZ66216		0.011	0.91	1.96	22	0.08	14.10	928	1.3
ZZ66217		0.006	1.32	1.93	17	0.08	9.91	766	1.4
ZZ66218		<0.005	0.39	2.22	20	0.07	10.55	368	2.4
ZZ66219		0.007	0.40	1.11	22	0.11	7.78	263	1.8
ZZ66220		<0.005	0.13	1.55	27	<0.05	21.2	211	<0.5
ZZ66221		0.010	0.18	0.89	44	0.15	8.15	100	<0.5
ZZ66222		0.006	0.22	0.73	46	0.11	4.35	105	0.6
ZZ66223		0.017	0.15	0.53	53	0.15	2.94	66	<0.5
ZZ66224		0.005	0.15	1.04	43	0.11	11.80	90	1.0
ZZ66225		0.006	0.12	3.16	26	0.07	10.00	76	2.5
ZZ66226		0.006	0.12	0.54	41	0.12	2.41	72	<0.5
ZZ66227		0.010	0.21	0.87	44	0.17	5.27	116	<0.5
ZZ66228		<0.005	0.22	0.86	27	0.10	9.08	59	1.1
ZZ66229		<0.005	0.07	0.46	11	<0.05	7.10	51	<0.5
ZZ66230		<0.005	0.06	0.44	10	<0.05	4.93	78	2.8
ZZ66231		<0.005	0.08	0.31	12	<0.05	2.56	43	0.8
ZZ66232		<0.005	0.04	0.32	10	<0.05	4.36	43	0.8
ZZ66233		<0.005	0.03	0.25	10	<0.05	2.49	31	<0.5
ZZ66234		0.006	0.06	0.30	26	0.07	2.24	46	<0.5
ZZ66235		0.013	0.12	0.80	37	0.14	3.67	75	0.5
ZZ66236		0.011	0.09	0.69	34	0.12	3.88	99	<0.5
ZZ66237		0.010	0.37	0.57	40	0.16	3.05	71	<0.5
ZZ66238		<0.005	0.09	0.84	23	0.07	17.60	119	0.8



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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66239		0.14	0.010	0.52	0.92	45.5	<0.2	<10	300	1.10	0.26	1.25	5.50	31.0	12.7	19
ZZ66240		0.20	0.002	0.14	0.87	27.9	<0.2	<10	200	1.41	0.45	0.43	0.35	16.25	17.9	13
ZZ66241		0.21	0.002	0.04	1.39	79.7	<0.2	<10	270	0.85	0.30	0.13	0.28	26.4	11.4	25
ZZ66242		0.27	0.002	0.12	1.44	76.5	<0.2	<10	210	1.10	0.40	0.15	0.26	14.65	11.3	22
ZZ66243		0.23	0.006	0.11	0.89	15.3	<0.2	<10	290	0.83	0.43	0.25	0.08	12.55	9.7	13
ZZ66244		0.23	0.002	0.05	0.48	5.4	<0.2	<10	110	0.85	0.45	0.08	0.08	14.20	9.5	7
ZZ66245		0.17	0.003	0.03	0.73	5.3	<0.2	<10	100	0.82	0.44	0.04	0.06	12.40	11.5	9
ZZ66246		0.22	0.002	0.02	0.43	9.1	<0.2	<10	90	0.98	0.56	0.03	0.03	17.85	13.8	11
ZZ66247		0.34	0.002	0.03	0.83	14.4	<0.2	<10	70	0.44	0.31	0.03	0.07	15.75	11.3	12
ZZ66248		0.28	0.003	0.03	0.90	51.7	<0.2	<10	180	0.94	0.39	0.09	0.09	21.8	14.2	14
ZZ66249		0.19	0.001	0.03	0.28	23.7	<0.2	<10	470	0.31	0.34	0.10	0.06	5.76	3.7	6
ZZ66250		0.17	0.003	0.07	0.21	26	<0.2	<10	80	0.27	0.06	16.30	0.13	9.77	3.9	5
ZZ66251		0.30	0.004	0.13	0.93	42.6	<0.2	<10	160	0.67	0.17	8.90	0.48	21.4	7.5	15
ZZ66252		0.14	0.002	0.19	1.02	60.1	<0.2	<10	150	0.78	0.18	5.35	0.34	37.7	8.9	19
ZZ66253		0.15	0.011	0.11	0.68	51.2	<0.2	<10	160	0.70	0.13	8.68	0.27	20.5	5.6	11
ZZ66254		0.15	0.001	0.05	1.71	20.0	<0.2	<10	290	0.68	0.30	0.51	0.16	20.8	8.8	27
ZZ66255		0.18	0.001	0.17	1.11	30.4	<0.2	<10	170	0.73	0.22	0.73	0.70	25.9	6.0	18
ZZ66256		0.18	0.003	0.13	0.72	41.6	<0.2	<10	200	0.54	0.25	0.23	0.40	15.85	6.9	12
ZZ66257		0.18	0.001	0.07	0.63	17.2	<0.2	<10	80	0.59	0.17	0.20	0.15	28.2	7.5	8
ZZ66258		0.23	0.001	0.10	0.47	64.3	<0.2	<10	130	0.41	0.30	0.14	1.37	14.60	7.7	14
ZZ66259		0.25	0.002	0.08	0.38	27.5	<0.2	<10	200	0.84	0.42	0.29	0.08	13.25	8.3	7
ZZ66260		0.15	0.003	0.16	0.77	18.9	<0.2	<10	160	0.74	0.30	0.05	0.21	14.30	7.8	15
ZZ66261		0.23	0.002	0.06	1.26	48.6	<0.2	<10	290	0.65	0.29	0.30	0.35	15.25	10.2	22
ZZ66262		0.20	0.002	0.11	1.30	63.1	<0.2	<10	190	0.61	0.25	0.84	0.87	17.75	8.8	20
ZZ66263		0.14	0.003	0.13	0.81	72	<0.2	<10	80	0.60	0.13	11.65	0.43	16.20	6.2	11
ZZ66264		0.14	0.014	0.26	1.93	137.0	<0.2	<10	250	1.57	0.21	5.40	0.85	37.4	9.6	25
ZZ66265		0.23	0.003	0.18	1.91	142.0	<0.2	<10	300	1.31	0.29	2.03	0.43	36.5	15.8	31
ZZ66266		0.19	0.002	0.03	0.84	14.8	<0.2	<10	240	0.48	0.31	0.10	0.36	15.85	11.6	15
ZZ66267		0.15	0.002	0.14	0.67	17.0	<0.2	<10	310	1.05	0.29	0.76	0.34	15.25	10.0	10
ZZ66268		0.23	0.001	0.03	0.76	11.0	<0.2	<10	100	0.53	0.35	0.06	0.12	17.40	6.2	15
ZZ66269		0.13	0.002	0.09	0.99	13.0	<0.2	<10	100	0.45	0.37	0.03	0.27	11.40	9.8	17
ZZ66270		0.18	0.002	0.04	0.95	11.2	<0.2	<10	100	0.30	0.33	0.02	0.10	18.35	5.0	15
ZZ66271		0.14	0.010	0.35	0.66	289	<0.2	<10	300	0.80	0.37	0.57	0.22	16.05	6.7	11
ZZ66272		0.27	0.003	0.32	0.90	18.2	<0.2	<10	240	1.35	0.33	0.89	0.14	14.20	7.9	17
ZZ66273		0.16	0.002	0.13	0.87	15.1	<0.2	<10	200	1.05	0.34	0.48	0.54	17.55	10.9	14
ZZ66274		0.21	0.004	0.23	0.92	20.4	<0.2	<10	180	0.99	0.29	0.57	0.45	15.65	12.2	16
ZZ66275		0.15	0.004	0.17	0.91	19.3	<0.2	<10	200	1.14	0.30	1.22	0.18	17.30	10.6	17
ZZ66276		0.22	0.003	0.16	0.60	26.0	<0.2	<10	360	1.32	0.35	1.18	0.35	11.60	8.9	10
ZZ66277		0.26	0.004	0.12	0.72	25.1	<0.2	<10	240	1.29	0.37	0.75	0.12	19.10	12.0	14
ZZ66278		0.30	0.004	0.17	0.71	25.0	<0.2	<10	190	1.10	0.65	0.63	0.11	17.80	8.5	12

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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66239		0.86	33.8	3.30	3.05	<0.05	0.10	23.9	0.049	0.06	11.7	7.3	0.27	621	1.24	0.01
ZZ66240		3.64	34.3	3.37	2.63	0.10	0.09	0.37	0.042	0.08	7.3	15.1	0.23	957	0.62	0.01
ZZ66241		1.60	19.4	3.27	4.73	0.08	0.06	0.61	0.028	0.06	9.7	23.3	0.45	667	1.27	0.01
ZZ66242		2.88	27.1	3.66	4.77	0.08	0.07	1.44	0.036	0.07	5.9	30.2	0.36	498	2.20	<0.01
ZZ66243		5.65	24.6	2.55	3.12	0.06	0.04	0.17	0.026	0.14	5.9	7.9	0.13	456	0.97	0.01
ZZ66244		8.81	35.4	2.40	1.82	0.06	<0.02	0.05	0.022	0.19	6.0	4.5	0.07	402	0.44	<0.01
ZZ66245		9.74	31.3	2.52	2.89	0.07	<0.02	0.01	0.023	0.22	4.8	6.8	0.08	262	0.78	0.01
ZZ66246		4.25	58.3	4.61	2.18	0.10	0.04	0.03	0.040	0.12	7.8	5.7	0.11	693	0.56	<0.01
ZZ66247		3.24	25.3	3.12	3.24	0.07	0.03	0.11	0.026	0.08	7.2	5.7	0.12	287	1.20	<0.01
ZZ66248		3.61	31.8	3.67	3.22	0.09	0.03	0.41	0.034	0.06	9.8	7.3	0.16	511	0.90	<0.01
ZZ66249		2.26	10.5	2.37	1.29	0.05	0.02	0.27	0.023	0.09	2.5	1.5	0.05	68	0.32	<0.01
ZZ66250		0.50	9.5	1.12	0.73	0.06	0.05	1.10	0.006	0.03	6.0	2.0	10.30	1330	0.22	0.03
ZZ66251		0.83	15.2	2.95	2.74	0.09	0.08	1.68	0.023	0.04	11.9	7.2	5.62	2100	0.61	0.02
ZZ66252		0.97	14.9	2.74	3.26	0.09	0.07	2.07	0.033	0.05	12.3	8.0	3.31	1280	0.78	0.02
ZZ66253		0.72	10.8	2.73	2.08	0.07	0.09	1.04	0.017	0.05	9.5	5.7	5.34	1760	0.89	0.02
ZZ66254		1.90	14.4	3.15	6.03	0.06	0.06	0.07	0.031	0.06	9.1	17.1	0.48	527	1.67	0.01
ZZ66255		1.30	10.6	2.48	3.37	0.08	0.06	0.55	0.027	0.04	11.0	6.8	0.20	448	0.86	0.01
ZZ66256		1.78	14.4	2.70	2.86	0.05	0.03	0.43	0.026	0.05	5.3	5.5	0.09	479	1.66	<0.01
ZZ66257		3.00	10.2	2.24	1.33	0.06	0.03	0.41	0.029	0.03	6.3	4.2	0.05	287	0.49	<0.01
ZZ66258		2.07	12.4	3.55	2.83	0.07	<0.02	7.69	0.041	0.03	5.4	2.5	0.07	479	0.70	<0.01
ZZ66259		6.84	25.5	2.04	1.73	0.06	0.05	0.18	0.022	0.13	6.5	3.1	0.07	316	0.42	<0.01
ZZ66260		5.60	26.7	3.01	3.85	0.07	<0.02	0.22	0.022	0.09	5.8	5.1	0.10	763	1.28	<0.01
ZZ66261		1.51	22.7	3.61	4.69	0.07	0.04	0.36	0.033	0.07	6.9	14.4	0.32	691	1.58	0.01
ZZ66262		1.23	14.5	3.08	4.73	0.06	0.04	0.24	0.029	0.06	7.5	13.9	0.40	1180	1.13	0.01
ZZ66263		0.59	15.4	2.67	2.35	0.09	0.08	1.48	0.018	0.04	9.8	8.6	7.36	1880	0.64	0.03
ZZ66264		1.22	22.8	4.88	5.14	0.16	0.12	2.73	0.037	0.06	28.8	15.6	3.27	4170	1.10	0.02
ZZ66265		1.49	28.9	7.26	4.93	0.20	0.14	2.27	0.046	0.06	23.9	14.1	1.15	4830	1.19	0.01
ZZ66266		6.73	17.4	2.95	4.64	0.06	<0.02	0.05	0.032	0.09	7.1	4.0	0.10	1820	1.39	0.01
ZZ66267		6.72	23.5	3.31	2.39	0.08	0.08	0.12	0.037	0.11	7.0	4.8	0.16	1620	1.13	<0.01
ZZ66268		3.34	17.8	2.94	4.73	0.06	<0.02	0.02	0.024	0.08	8.6	5.4	0.13	338	1.21	<0.01
ZZ66269		1.46	19.6	3.40	5.33	0.06	<0.02	0.04	0.027	0.10	5.4	5.1	0.11	1140	1.40	0.01
ZZ66270		1.88	15.5	2.73	5.49	0.06	<0.02	0.02	0.020	0.06	8.8	3.5	0.07	657	1.62	<0.01
ZZ66271		6.79	20.5	3.33	2.66	0.08	0.07	11.05	0.043	0.08	7.1	6.9	0.11	453	1.00	0.01
ZZ66272		17.20	38.3	2.84	2.40	0.07	0.11	0.47	0.038	0.09	7.7	11.6	0.25	327	0.83	0.01
ZZ66273		4.44	27.8	3.63	3.39	0.06	0.02	0.07	0.040	0.06	6.8	10.4	0.11	640	1.33	0.01
ZZ66274		2.33	44.3	3.42	2.82	0.09	0.08	0.12	0.034	0.07	6.8	14.7	0.33	645	2.27	0.01
ZZ66275		17.45	31.2	2.66	2.56	0.06	0.07	0.27	0.031	0.07	8.0	12.2	0.29	457	0.89	0.01
ZZ66276		19.30	31.2	2.72	1.65	0.06	0.08	1.24	0.038	0.06	6.1	7.0	0.16	380	0.81	0.01
ZZ66277		3.27	33.6	3.44	1.99	0.07	0.07	0.51	0.050	0.05	9.3	7.7	0.16	416	0.79	0.01
ZZ66278		33.8	36.4	2.82	2.02	0.07	0.07	0.27	0.040	0.07	9.3	10.4	0.23	369	0.78	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66239		0.22	27.5	720	169.0	6.2	<0.001	0.05	6.05	5.3	1.6	0.5	61.0	<0.01	0.03	3.0
ZZ66240		0.19	35.9	640	31.0	9.9	<0.001	0.05	1.12	7.8	1.1	0.4	21.4	<0.01	0.07	2.7
ZZ66241		0.70	27.5	550	32.4	12.3	<0.001	0.03	2.42	3.1	0.6	0.5	17.2	<0.01	0.05	2.0
ZZ66242		0.24	28.1	440	33.7	14.6	0.001	0.03	1.92	3.8	0.7	0.5	19.0	<0.01	0.05	2.6
ZZ66243		0.21	17.9	540	16.1	17.6	<0.001	0.03	0.57	2.9	0.5	0.6	23.1	<0.01	0.04	1.4
ZZ66244		0.14	18.1	320	14.5	16.5	<0.001	0.03	0.30	2.6	0.3	0.5	11.3	<0.01	0.02	2.5
ZZ66245		0.23	18.1	220	16.3	24.9	<0.001	0.02	0.51	2.9	0.3	0.5	15.5	<0.01	0.06	2.5
ZZ66246		0.15	31.2	260	15.3	11.0	<0.001	0.01	0.33	5.2	0.4	0.6	15.4	<0.01	0.03	5.8
ZZ66247		0.40	20.6	360	15.5	13.0	<0.001	0.04	0.66	2.5	0.3	0.5	12.2	<0.01	0.04	1.7
ZZ66248		0.33	26.5	230	35.3	9.2	<0.001	0.02	1.18	4.1	0.7	0.5	13.4	<0.01	0.04	2.6
ZZ66249		0.08	7.6	140	54.5	5.5	<0.001	0.09	0.50	2.2	<0.2	0.6	14.4	<0.01	0.04	2.6
ZZ66250		0.09	8.3	600	61.4	2.1	<0.001	0.04	3.19	2.3	0.6	<0.2	61.4	<0.01	0.04	1.7
ZZ66251		0.26	17.2	930	34.7	5.4	<0.001	0.06	3.12	3.1	1.1	0.3	56.6	<0.01	0.07	1.0
ZZ66252		0.28	21.6	730	59.3	6.8	<0.001	0.05	5.17	3.0	1.1	0.4	32.3	<0.01	0.05	1.2
ZZ66253		0.17	13.7	570	65.5	4.9	<0.001	0.05	2.73	3.1	0.9	0.3	38.6	<0.01	0.03	2.4
ZZ66254		0.59	20.7	1250	23.5	12.2	<0.001	0.06	1.00	2.3	0.5	0.6	14.1	0.01	0.04	1.2
ZZ66255		0.33	16.9	990	26.2	9.1	<0.001	0.05	0.81	2.1	0.8	0.4	25.1	<0.01	0.04	1.0
ZZ66256		0.24	16.5	970	27.0	10.6	<0.001	0.05	0.58	1.6	0.4	0.5	13.5	<0.01	0.04	0.9
ZZ66257		0.16	18.3	400	51.4	6.6	<0.001	0.02	0.26	2.2	0.4	0.3	11.9	<0.01	0.02	2.0
ZZ66258		0.21	24.5	590	147.5	6.9	<0.001	0.06	4.01	2.1	0.5	0.5	9.9	<0.01	0.03	1.0
ZZ66259		0.18	15.0	240	15.1	19.2	<0.001	0.03	0.36	3.1	0.4	0.5	33.1	<0.01	0.03	2.2
ZZ66260		0.25	15.7	870	28.5	26.6	<0.001	0.07	1.01	0.8	0.4	0.5	9.4	<0.01	0.05	<0.2
ZZ66261		0.51	23.0	480	61.9	12.4	<0.001	0.03	2.35	3.4	0.5	0.5	11.0	<0.01	0.05	2.3
ZZ66262		0.56	18.4	660	43.4	9.6	<0.001	0.05	2.72	2.7	0.5	0.5	14.1	<0.01	0.05	1.0
ZZ66263		0.20	14.6	1320	64.0	5.7	<0.001	0.07	5.13	2.8	1.0	0.3	51.0	<0.01	0.08	1.1
ZZ66264		0.31	25.9	1610	57.4	11.0	<0.001	0.08	6.06	5.9	2.2	0.5	37.0	0.01	0.10	1.4
ZZ66265		0.30	34.1	890	94.2	11.7	<0.001	0.05	5.10	9.4	2.1	0.6	21.8	0.01	0.12	2.8
ZZ66266		0.42	13.3	480	15.5	16.4	<0.001	0.04	0.64	1.8	0.4	0.7	10.2	<0.01	0.06	0.2
ZZ66267		0.44	19.6	610	22.9	12.1	<0.001	0.12	0.43	3.9	0.8	0.4	21.9	<0.01	0.03	2.2
ZZ66268		0.72	12.4	330	10.9	19.5	<0.001	0.37	0.43	1.9	0.3	0.7	9.7	<0.01	0.05	0.7
ZZ66269		0.50	11.1	650	16.8	22.4	<0.001	0.45	0.44	1.7	0.4	0.7	5.5	<0.01	0.06	0.4
ZZ66270		0.62	8.2	390	17.4	17.4	<0.001	0.29	0.45	2.2	0.4	0.8	6.0	<0.01	0.05	1.5
ZZ66271		0.25	18.1	1050	116.0	13.9	<0.001	0.28	10.60	3.9	1.2	0.6	66.6	<0.01	0.04	2.0
ZZ66272		0.41	28.2	630	19.3	13.8	<0.001	0.20	0.58	8.1	1.1	0.3	52.7	0.01	0.07	1.7
ZZ66273		0.49	24.1	610	24.3	15.7	<0.001	0.14	0.49	3.3	0.7	0.4	33.4	<0.01	0.12	1.0
ZZ66274		0.30	30.1	580	23.4	9.6	<0.001	0.07	0.99	5.2	1.1	0.3	34.5	<0.01	0.06	2.1
ZZ66275		0.50	25.5	690	18.8	15.6	<0.001	0.11	0.76	4.2	1.0	0.4	44.4	<0.01	0.06	1.2
ZZ66276		0.25	21.3	800	66.6	16.0	<0.001	0.12	1.25	5.0	1.1	0.3	51.3	<0.01	0.06	1.2
ZZ66277		0.30	28.0	420	21.4	5.9	<0.001	0.08	0.45	7.2	0.8	0.4	43.9	<0.01	0.07	2.1
ZZ66278		0.25	19.2	570	13.7	18.6	<0.001	0.10	0.39	4.8	0.9	0.3	48.4	<0.01	0.08	1.6

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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ66239		<0.005	0.10	5.69	30	0.10	12.60	3660	3.0
ZZ66240		<0.005	0.10	1.07	18	0.06	16.50	183	2.0
ZZ66241		0.017	0.16	1.14	39	0.24	5.89	150	1.5
ZZ66242		<0.005	0.18	1.34	25	0.07	6.97	145	1.7
ZZ66243		<0.005	0.15	0.73	19	0.07	6.28	63	0.7
ZZ66244		<0.005	0.12	0.71	10	<0.05	5.90	54	<0.5
ZZ66245		0.008	0.15	0.54	17	0.05	5.09	48	<0.5
ZZ66246		<0.005	0.09	0.80	15	<0.05	8.66	74	1.3
ZZ66247		0.010	0.13	0.57	23	0.12	3.40	58	0.7
ZZ66248		0.009	0.52	1.02	25	0.11	7.09	119	<0.5
ZZ66249		<0.005	0.46	0.74	9	<0.05	2.19	110	0.7
ZZ66250		<0.005	0.31	1.31	6	0.05	8.48	49	1.9
ZZ66251		0.008	0.38	1.80	23	0.10	14.50	162	1.8
ZZ66252		0.008	0.49	1.12	31	0.18	15.30	97	1.9
ZZ66253		<0.005	0.30	1.43	17	0.09	10.35	84	2.6
ZZ66254		0.016	0.22	0.88	51	0.19	4.11	130	1.3
ZZ66255		0.010	0.16	1.42	30	0.12	12.95	139	1.5
ZZ66256		0.005	0.16	0.63	24	0.10	4.49	93	0.6
ZZ66257		<0.005	0.09	0.54	9	0.05	5.04	47	0.7
ZZ66258		0.006	0.17	0.52	19	0.10	3.84	872	<0.5
ZZ66259		<0.005	0.08	0.60	10	<0.05	7.37	64	1.3
ZZ66260		0.012	0.17	0.83	32	0.12	4.29	91	<0.5
ZZ66261		0.009	0.26	0.91	43	0.13	5.11	158	1.0
ZZ66262		0.014	0.46	1.03	43	0.15	6.25	261	0.9
ZZ66263		0.005	0.29	3.03	19	0.07	16.45	239	2.0
ZZ66264		0.005	0.44	2.49	42	0.14	40.2	311	2.5
ZZ66265		<0.005	0.47	1.48	49	0.21	27.8	374	2.6
ZZ66266		0.013	0.12	0.49	46	0.13	2.66	87	<0.5
ZZ66267		0.007	0.22	0.62	19	0.07	10.20	73	1.5
ZZ66268		0.018	0.12	0.48	38	0.14	2.73	55	<0.5
ZZ66269		0.011	0.13	0.39	47	0.10	2.00	63	<0.5
ZZ66270		0.011	0.13	0.46	51	0.10	2.29	46	<0.5
ZZ66271		<0.005	3.27	1.81	17	0.09	9.86	176	1.6
ZZ66272		<0.005	0.12	1.70	22	0.06	16.30	67	2.4
ZZ66273		0.008	0.09	0.95	31	0.09	6.03	92	<0.5
ZZ66274		0.005	0.14	0.99	36	0.07	10.05	127	2.0
ZZ66275		0.008	0.18	2.27	24	0.12	10.25	66	1.4
ZZ66276		<0.005	0.10	1.19	16	0.05	13.35	143	1.6
ZZ66277		<0.005	0.20	1.42	20	0.07	13.90	87	1.4
ZZ66278		<0.005	0.08	1.13	20	0.05	9.25	64	1.7



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66279		0.11	0.010	0.20	0.65	17.7	<0.2	<10	140	1.02	0.28	1.92	1.11	15.45	6.9	12
ZZ66280		0.18	0.010	0.31	0.78	98	<0.2	<10	150	0.68	0.08	12.85	0.14	20.7	4.0	12
ZZ66281		0.14	0.003	0.10	2.62	75.9	<0.2	<10	290	2.37	0.23	2.64	0.62	32.3	10.2	28
ZZ66282		0.17	0.004	0.12	0.47	62	<0.2	<10	100	0.53	0.07	14.10	0.27	9.07	3.9	6
ZZ66283		0.24	0.005	0.07	1.20	16.4	<0.2	<10	190	1.41	0.37	0.24	0.19	16.35	9.0	20
ZZ66284		0.17	0.007	0.12	0.91	14.6	<0.2	<10	310	1.46	0.29	1.38	0.57	13.15	10.3	15
ZZ66285		0.21	0.003	0.06	1.04	22.8	<0.2	<10	320	1.14	0.32	0.36	0.32	21.1	10.7	14
ZZ66286		0.18	0.004	0.19	1.45	8.9	<0.2	<10	200	2.28	0.39	0.21	0.21	36.6	11.5	21
ZZ66287		0.19	0.005	0.05	1.72	5.4	<0.2	<10	60	2.53	0.77	0.13	0.03	21.7	27.5	22
ZZ66288		0.18	0.004	0.05	1.65	9.1	<0.2	<10	350	1.94	0.52	0.06	0.08	19.05	23.2	29
ZZ66289		0.15	0.003	0.08	1.15	8.0	<0.2	<10	510	1.46	0.48	0.30	0.09	26.6	19.2	18
ZZ66290		0.18	0.004	0.06	0.32	22.8	<0.2	<10	80	0.71	0.42	0.15	0.10	13.95	12.2	6
ZZ66291		0.16	0.003	0.09	0.41	6.1	<0.2	<10	80	0.82	0.40	0.07	0.13	13.10	12.3	7
ZZ66292		0.15	0.004	0.03	0.35	10.4	<0.2	<10	70	1.33	0.52	0.14	0.04	21.2	17.6	8
ZZ66293		0.23	0.013	0.05	0.35	10.8	<0.2	10	160	1.12	0.29	1.55	0.08	16.55	11.9	6
ZZ66294		0.20	0.005	0.11	0.49	19.2	<0.2	<10	140	1.32	0.36	1.26	0.13	24.1	14.7	9
ZZ66295		0.15	0.002	0.05	0.65	5.7	<0.2	<10	230	1.23	0.24	0.38	0.12	35.1	10.4	12
ZZ66296		0.15	0.002	0.08	0.44	170.5	<0.2	<10	140	0.90	0.45	0.24	0.07	11.35	69.2	5
ZZ66297		0.11	0.002	0.06	0.46	22	<0.2	<10	80	0.47	0.07	13.85	0.77	16.70	3.8	7
ZZ66298		0.28	0.003	0.11	0.85	28.7	<0.2	<10	100	0.82	0.18	9.22	0.20	28.3	7.7	14
ZZ66299		0.15	0.003	0.14	1.17	84.7	<0.2	<10	180	1.06	0.20	3.65	1.01	28.7	9.2	16
ZZ66300		0.24	0.002	0.21	1.12	53.7	<0.2	<10	150	1.23	0.23	0.98	0.22	26.9	7.9	18



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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66279		30.4	23.3	2.80	1.72	0.07	0.05	0.88	0.032	0.05	7.5	7.2	0.25	323	0.58	0.01
ZZ66280		0.66	10.2	2.91	1.80	0.08	0.07	1.09	0.013	0.02	14.2	4.4	7.98	1920	0.66	0.02
ZZ66281		1.79	18.2	7.35	6.00	0.13	0.11	0.31	0.044	0.06	17.9	15.0	1.61	5460	1.45	0.01
ZZ66282		0.66	8.2	2.66	1.25	0.06	0.04	0.20	0.015	0.03	4.5	4.4	8.88	1760	0.53	0.02
ZZ66283		5.65	21.6	3.62	3.88	0.05	<0.02	0.04	0.037	0.09	7.1	25.6	0.29	627	0.98	0.01
ZZ66284		7.74	29.5	2.77	2.68	0.05	0.05	0.25	0.030	0.07	5.7	16.2	0.30	606	0.70	0.01
ZZ66285		1.37	21.7	3.63	3.53	0.07	0.07	0.11	0.047	0.06	7.5	12.6	0.17	701	0.98	0.01
ZZ66286		3.46	34.3	4.88	3.41	0.12	0.10	0.08	0.058	0.08	14.5	26.3	0.15	1260	0.71	0.01
ZZ66287		4.73	58.3	4.61	5.39	0.11	0.07	0.06	0.042	0.11	5.8	57.3	0.46	767	0.58	0.01
ZZ66288		5.89	50.8	4.81	6.13	0.08	0.05	0.07	0.046	0.11	7.5	48.9	0.41	1260	0.89	<0.01
ZZ66289		3.01	37.1	3.63	4.06	0.08	0.07	0.12	0.030	0.16	10.1	32.9	0.26	1120	0.47	<0.01
ZZ66290		9.66	30.4	2.57	1.43	0.05	0.02	0.10	0.024	0.13	6.7	2.2	0.05	187	0.48	<0.01
ZZ66291		4.35	36.5	2.80	1.58	0.05	0.02	0.03	0.029	0.13	6.3	2.2	0.04	555	0.43	0.01
ZZ66292		4.78	44.5	4.28	1.27	0.08	0.03	0.05	0.038	0.13	8.6	3.2	0.05	857	0.73	<0.01
ZZ66293		5.01	27.5	2.68	1.13	0.08	0.07	0.13	0.036	0.15	7.6	3.4	0.12	1090	0.62	0.01
ZZ66294		3.73	43.0	3.21	1.60	0.10	0.07	1.05	0.038	0.12	11.8	5.0	0.23	1160	0.76	0.01
ZZ66295		8.62	12.4	2.74	2.25	0.12	0.06	0.17	0.046	0.10	16.9	7.8	0.14	1080	0.60	0.01
ZZ66296		3.55	192.5	4.10	1.29	0.07	0.02	0.37	0.039	0.08	4.1	3.1	0.08	346	2.41	<0.01
ZZ66297		0.67	7.1	1.55	1.19	0.05	0.05	0.41	0.013	0.03	10.4	3.9	8.64	1100	0.32	0.03
ZZ66298		0.90	14.9	2.31	2.49	0.06	0.07	1.08	0.022	0.05	18.8	9.3	5.37	875	0.67	0.02
ZZ66299		0.80	18.0	4.53	3.37	0.10	0.07	0.97	0.031	0.06	14.4	9.1	1.75	2950	0.88	0.01
ZZ66300		1.67	16.5	2.89	3.29	0.06	0.15	1.54	0.032	0.08	13.8	9.7	0.27	420	0.78	0.01



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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66279		0.34	22.9	920	60.6	12.6	<0.001	0.16	0.95	3.2	1.5	0.3	74.2	<0.01	0.07	0.8
ZZ66280		0.23	13.0	1660	38.5	4.0	<0.001	0.10	6.42	3.1	1.0	0.2	49.5	0.01	0.06	0.7
ZZ66281		0.61	23.3	1670	38.3	13.8	<0.001	0.13	3.33	7.7	1.4	0.6	17.4	0.01	0.10	1.4
ZZ66282		0.21	9.2	890	22.1	4.5	<0.001	0.10	2.06	6.4	0.7	<0.2	79.7	<0.01	0.04	0.5
ZZ66283		0.54	19.6	580	23.3	17.7	<0.001	0.09	0.54	2.1	0.5	0.5	14.6	<0.01	0.05	0.5
ZZ66284		0.41	19.4	930	20.3	16.9	<0.001	0.13	0.55	3.4	0.7	0.3	44.2	<0.01	0.08	0.8
ZZ66285		0.46	18.4	1060	21.2	11.4	<0.001	0.08	0.52	4.0	0.6	0.4	22.9	<0.01	0.07	1.4
ZZ66286		0.31	30.2	740	57.3	11.7	<0.001	0.07	0.28	9.6	1.2	0.5	15.5	0.01	0.09	3.4
ZZ66287		0.19	37.5	380	44.5	11.9	<0.001	0.05	0.38	6.7	0.7	0.6	16.2	0.01	0.06	4.4
ZZ66288		0.31	35.3	490	36.8	13.6	<0.001	0.05	0.31	5.1	0.6	0.7	13.8	<0.01	0.04	3.7
ZZ66289		0.19	27.8	820	50.1	11.3	<0.001	0.09	0.27	3.8	0.7	0.5	37.9	<0.01	0.04	4.4
ZZ66290		0.15	21.6	360	19.2	14.4	<0.001	0.06	0.36	2.3	0.3	0.4	23.6	<0.01	0.03	1.6
ZZ66291		0.10	21.6	520	20.7	14.0	<0.001	0.06	0.16	2.4	0.3	0.5	14.2	<0.01	0.04	1.5
ZZ66292		0.10	30.2	330	27.2	9.3	<0.001	0.04	0.19	4.5	0.3	0.5	19.1	<0.01	0.03	5.5
ZZ66293		0.14	21.0	580	13.9	10.3	<0.001	0.11	0.43	5.1	0.8	0.2	27.2	0.01	0.06	1.2
ZZ66294		0.24	28.1	570	28.5	10.0	<0.001	0.10	0.78	6.0	1.0	0.4	23.2	0.01	0.08	1.8
ZZ66295		0.48	17.2	570	14.8	10.4	0.001	0.05	0.38	8.8	0.9	0.3	16.0	0.01	0.10	2.7
ZZ66296		0.20	59.3	390	82.6	6.3	<0.001	0.04	1.46	4.5	0.3	0.4	8.8	<0.01	0.09	1.8
ZZ66297		0.21	6.7	1040	57.0	5.0	<0.001	0.11	1.36	1.7	0.6	0.2	87.2	<0.01	0.04	0.6
ZZ66298		0.33	15.9	820	47.3	7.0	<0.001	0.13	4.29	2.8	0.8	0.3	75.4	0.01	0.06	0.8
ZZ66299		0.26	19.4	1510	53.4	7.2	<0.001	0.16	5.31	2.2	1.2	0.4	29.9	0.01	0.07	0.5
ZZ66300		0.43	21.5	950	28.5	8.2	<0.001	0.11	1.86	4.6	0.9	0.5	31.0	0.01	0.04	2.1





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**CERTIFICATE OF ANALYSIS WH12150334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66279		0.006	0.21	1.46	16	0.09	9.70	722	1.3
ZZ66280		0.005	0.19	3.11	16	0.16	24.6	96	1.3
ZZ66281		0.013	0.43	3.41	51	0.16	33.9	242	2.0
ZZ66282		0.006	0.16	1.63	14	0.07	9.42	83	0.7
ZZ66283		0.013	0.10	0.61	33	0.12	3.23	98	<0.5
ZZ66284		0.008	0.07	0.87	22	0.08	7.81	117	1.1
ZZ66285		0.007	0.12	1.05	26	0.11	8.58	76	1.5
ZZ66286		<0.005	0.08	1.69	24	0.08	31.8	107	1.2
ZZ66287		0.006	0.09	0.63	15	<0.05	18.35	86	1.8
ZZ66288		0.006	0.14	1.07	24	<0.05	7.85	82	0.9
ZZ66289		<0.005	0.10	0.94	14	<0.05	9.19	68	1.2
ZZ66290		<0.005	0.20	0.59	10	<0.05	4.04	82	<0.5
ZZ66291		<0.005	0.08	0.57	10	<0.05	4.21	59	<0.5
ZZ66292		<0.005	0.12	0.88	10	<0.05	6.65	70	1.1
ZZ66293		<0.005	0.12	0.84	11	<0.05	14.85	41	1.5
ZZ66294		0.006	0.16	0.72	14	0.06	19.00	66	1.3
ZZ66295		0.017	0.08	0.57	20	0.14	22.5	38	0.6
ZZ66296		<0.005	0.23	0.27	9	<0.05	4.99	206	<0.5
ZZ66297		0.005	0.23	1.85	10	0.06	10.20	237	1.0
ZZ66298		0.008	0.30	1.51	20	0.12	15.45	82	1.3
ZZ66299		0.007	0.37	1.72	26	0.11	23.0	342	1.0
ZZ66300		0.006	0.38	1.64	25	0.08	15.05	206	3.6



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**CERTIFICATE OF ANALYSIS WH12150334**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12150335**

Project: ATAC- Regional Area D (San)  
 P.O. No.: Soil 10  
 This report is for 130 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022311		0.25	0.007	0.13	1.16	22.1	<0.2	<10	90	0.45	0.30	0.07	0.22	14.20	7.2	25
DD022312		0.22	0.002	0.07	1.28	14.7	<0.2	<10	150	0.59	0.32	0.05	0.36	19.45	10.1	21
DD022313		0.25	0.001	0.18	1.25	4.7	<0.2	<10	270	1.27	0.41	0.16	0.10	21.0	24.4	16
DD022314		0.24	0.001	0.77	0.89	17.2	<0.2	<10	120	0.33	0.28	0.06	1.01	24.2	5.7	17
DD022315		0.21	0.001	0.30	1.08	40.9	<0.2	<10	110	0.37	0.27	0.04	0.45	12.50	7.8	21
DD022316		0.22	0.002	0.22	1.02	47.8	<0.2	<10	130	0.81	0.24	0.05	0.77	19.50	13.3	15
DD022317		0.24	<0.001	0.17	1.08	7.4	<0.2	<10	340	0.49	0.27	0.80	0.61	12.80	6.6	18
DD022318		0.27	0.002	0.14	1.48	20.8	<0.2	<10	260	2.15	0.27	0.31	0.18	29.4	12.6	29
DD022319		0.26	0.001	0.06	1.18	10.6	<0.2	<10	150	0.45	0.33	0.06	0.15	21.2	6.2	21
DD022320		0.18	0.001	0.13	1.54	9.6	<0.2	<10	120	0.54	0.18	0.33	0.65	17.00	5.1	46
DD022321		0.22	NSS	0.59	2.48	22.7	<0.2	<10	930	1.89	0.38	0.52	0.36	20.8	12.4	39
DD022322		0.26	0.001	0.18	1.20	10.6	<0.2	<10	130	0.40	0.26	0.08	0.22	18.30	4.9	22
DD022323		0.28	0.002	0.03	1.65	19.1	<0.2	<10	110	0.51	0.31	0.05	0.23	20.1	10.2	28
DD022324		0.25	0.006	0.12	1.69	18.1	<0.2	<10	100	0.63	0.40	0.05	0.57	11.35	9.8	29
DD022325		0.27	0.002	0.27	1.64	13.3	<0.2	<10	510	0.71	0.27	0.67	0.16	15.45	7.8	25
DD022326		0.31	0.002	0.15	1.59	27.2	<0.2	<10	590	0.89	0.27	0.20	0.43	25.9	15.2	27
DD022327		0.23	0.002	0.04	1.53	11.5	<0.2	<10	100	0.60	0.39	0.03	0.21	14.70	8.7	29
DD022328		0.17	0.002	0.08	1.68	8.8	<0.2	<10	290	1.13	0.48	0.07	0.11	16.30	9.0	26
DD022329		0.29	0.008	0.09	1.00	6.1	<0.2	<10	80	0.28	0.30	0.04	0.09	7.59	7.5	21
DD022330		0.27	0.002	0.05	1.67	21.0	<0.2	<10	340	0.50	0.29	0.05	0.22	18.90	9.9	28
DD022331		0.20	0.002	0.07	1.30	15.2	<0.2	<10	170	0.48	0.32	0.05	0.21	15.15	12.7	31
DD022332		0.27	0.001	0.07	1.22	12.9	<0.2	<10	300	0.30	0.24	0.26	0.07	15.85	4.7	21
DD022333		0.24	0.002	0.04	1.24	44.7	<0.2	<10	220	0.38	0.26	0.71	0.48	14.80	6.4	20
DD022334		0.25	0.002	0.10	0.63	521	<0.2	<10	140	0.31	0.07	10.40	3.22	15.05	4.3	11
DD022335		0.26	0.003	0.19	1.70	255	<0.2	<10	360	0.72	0.24	0.63	0.29	24.3	8.8	28
DD022336		0.31	0.002	0.07	0.51	431	<0.2	<10	120	0.28	0.12	10.85	0.41	13.55	5.4	9
DD022337		0.27	0.003	0.21	0.98	743	<0.2	<10	140	0.41	0.16	7.75	0.96	16.30	6.6	15
DD022338		0.32	0.001	0.09	0.74	490	<0.2	<10	190	0.40	0.17	5.85	0.86	14.05	8.3	12
DD022339		0.20	0.002	0.11	0.58	72.4	<0.2	<10	90	0.30	0.15	2.06	0.37	19.90	7.2	16
DD022340		0.15	0.001	0.08	1.33	113.0	<0.2	<10	150	0.40	0.24	0.28	0.20	19.45	5.4	21
DD022341		0.24	0.001	0.12	1.10	135.5	<0.2	<10	180	0.39	0.26	0.21	0.30	17.40	5.6	22
DD022342		0.21	0.003	0.22	1.25	166.0	<0.2	<10	170	0.91	0.23	4.53	0.64	21.1	7.8	19
DD022343		0.26	0.011	0.24	0.69	284	<0.2	<10	1130	0.40	0.10	10.30	2.04	11.85	4.8	10
DD022344		0.23	0.002	0.03	2.03	20.6	<0.2	<10	210	0.78	0.34	0.17	0.35	28.5	12.0	34
DD022345		0.21	0.001	0.05	1.49	17.1	<0.2	<10	190	0.64	0.35	0.21	0.20	18.40	9.0	28
DD022346		0.23	0.002	0.04	1.60	15.2	<0.2	<10	130	0.56	0.33	0.05	0.23	20.6	8.3	26
DD022347		0.27	0.003	0.10	1.64	12.6	<0.2	<10	260	0.78	0.27	0.13	0.11	22.5	7.6	26
DD022348		0.26	0.001	0.05	1.19	9.9	<0.2	<10	370	0.81	0.38	0.34	0.08	19.35	6.3	16
DD022349		0.27	0.002	0.09	0.79	33.4	<0.2	<10	370	0.46	0.18	8.59	0.41	20.2	8.2	13
DD022350		0.21	0.003	0.11	0.63	52.3	<0.2	<10	180	0.44	0.21	9.15	0.32	19.90	9.9	12



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022311		1.97	27.6	3.10	4.25	0.05	0.02	0.06	0.032	0.09	6.6	13.1	0.22	294	1.66	0.01
DD022312		2.21	25.0	3.25	5.01	<0.05	<0.02	0.04	0.031	0.09	8.7	8.4	0.17	620	2.60	0.01
DD022313		9.34	96.1	3.76	3.65	0.08	0.09	0.06	0.030	0.15	8.6	21.5	0.42	1670	0.72	<0.01
DD022314		1.85	37.6	3.47	4.16	0.06	<0.02	0.06	0.035	0.08	12.9	3.6	0.10	117	5.95	0.03
DD022315		2.19	50.7	4.30	4.81	0.05	0.02	0.04	0.034	0.08	6.4	6.8	0.20	251	13.50	0.01
DD022316		2.04	63.5	4.85	3.06	0.06	0.04	0.07	0.042	0.08	9.0	6.5	0.13	563	9.69	0.02
DD022317		2.25	15.6	2.40	4.00	<0.05	0.06	0.04	0.026	0.09	6.4	17.3	0.26	496	2.46	0.01
DD022318		3.45	47.1	3.32	4.09	0.08	0.10	0.06	0.032	0.06	14.3	33.0	0.46	710	2.06	0.01
DD022319		4.55	15.1	2.56	6.88	<0.05	<0.02	0.03	0.023	0.06	10.7	4.7	0.13	558	2.23	0.01
DD022320		1.40	12.1	2.97	4.11	<0.05	0.02	0.08	0.037	0.04	8.8	9.4	0.15	642	1.03	0.01
DD022321		9.86	45.1	3.92	6.52	0.08	0.13	0.22	0.050	0.15	11.6	29.6	0.44	953	2.63	0.01
DD022322		2.31	13.3	2.50	5.33	<0.05	<0.02	0.04	0.022	0.07	9.1	10.0	0.19	410	1.83	0.01
DD022323		1.86	22.8	3.61	5.42	0.05	<0.02	0.05	0.034	0.07	9.5	17.2	0.36	600	1.96	0.01
DD022324		2.45	23.5	5.01	5.65	0.06	0.04	0.07	0.042	0.06	5.0	13.0	0.27	637	1.46	0.01
DD022325		1.44	19.5	3.19	5.55	0.05	0.08	0.04	0.031	0.07	7.6	17.1	0.42	285	1.73	0.01
DD022326		1.73	46.1	3.71	4.63	0.07	0.04	0.11	0.033	0.07	12.2	23.8	0.52	665	2.08	0.01
DD022327		3.01	19.0	3.81	6.41	0.05	0.03	0.03	0.030	0.06	6.8	14.4	0.30	421	1.17	<0.01
DD022328		4.09	36.8	2.67	5.93	<0.05	0.02	0.03	0.032	0.06	7.7	14.6	0.33	567	1.46	0.01
DD022329		2.84	17.1	2.71	3.85	<0.05	<0.02	0.06	0.024	0.07	3.7	9.9	0.24	320	1.33	0.01
DD022330		2.15	23.5	3.95	5.47	0.05	0.02	0.04	0.034	0.06	8.2	23.2	0.38	460	2.11	0.01
DD022331		6.02	19.6	4.30	6.36	0.05	<0.02	0.05	0.030	0.08	7.2	8.1	0.17	1750	2.08	0.01
DD022332		1.91	12.6	2.24	5.75	<0.05	<0.02	0.04	0.023	0.06	7.9	9.1	0.21	341	1.69	0.01
DD022333		2.20	12.5	2.45	5.08	<0.05	0.02	0.14	0.024	0.05	7.2	12.1	0.36	386	1.00	0.01
DD022334		0.61	7.0	2.67	1.79	<0.05	0.04	5.60	0.014	0.02	7.0	3.9	6.14	2120	0.50	0.02
DD022335		1.49	17.8	3.25	5.16	<0.05	0.06	4.95	0.030	0.06	12.8	14.5	0.51	679	1.05	0.01
DD022336		0.43	9.8	1.91	1.41	<0.05	0.04	8.46	0.013	0.03	8.2	3.4	6.83	1040	0.44	0.02
DD022337		0.67	13.4	2.40	2.24	<0.05	0.06	6.94	0.025	0.03	10.0	4.4	4.43	937	1.48	0.02
DD022338		0.72	13.1	2.86	2.22	<0.05	0.05	7.54	0.023	0.04	7.5	4.8	3.66	864	0.51	0.02
DD022339		1.34	9.1	2.68	2.23	<0.05	0.04	1.74	0.022	0.05	8.1	3.0	1.06	648	0.58	0.01
DD022340		2.15	7.1	3.46	5.13	<0.05	0.02	2.69	0.028	0.05	8.5	8.9	0.21	985	0.87	0.01
DD022341		1.72	10.0	3.60	4.90	0.05	<0.02	4.84	0.026	0.05	8.2	7.4	0.15	735	0.99	0.01
DD022342		1.19	18.8	3.58	3.26	0.06	0.07	5.72	0.026	0.06	11.7	8.4	2.62	1160	0.87	0.01
DD022343		0.40	9.3	2.78	1.97	<0.05	0.04	16.50	0.015	0.04	6.0	4.6	6.46	1720	0.54	0.02
DD022344		1.84	24.5	3.93	6.40	0.05	<0.02	0.16	0.040	0.08	11.1	23.1	0.51	561	1.97	0.01
DD022345		1.48	22.6	3.52	5.54	<0.05	<0.02	0.10	0.033	0.07	7.8	14.2	0.28	464	1.98	0.01
DD022346		1.72	19.2	3.23	5.88	0.05	<0.02	0.16	0.029	0.06	9.8	15.2	0.28	501	2.09	0.01
DD022347		1.23	18.6	2.94	4.73	<0.05	0.04	0.14	0.029	0.05	11.2	17.2	0.42	247	1.14	0.01
DD022348		3.01	20.7	2.64	4.07	<0.05	0.02	0.12	0.032	0.08	8.3	11.2	0.18	296	0.85	0.01
DD022349		0.50	16.3	2.66	1.91	0.05	0.04	0.74	0.021	0.05	11.2	5.8	5.25	1740	0.51	0.02
DD022350		1.74	21.7	2.95	1.60	0.05	0.04	1.13	0.023	0.06	11.5	4.7	5.53	1580	0.58	0.02

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Project: ATAC- Regional Area D (Sian)  
**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD022311	0.62	21.6	700	24.6	12.8	0.001	0.07	0.85	1.7	0.7	0.4	8.2	<0.01	0.06	0.7
DD022312	0.63	21.8	870	21.4	16.4	<0.001	0.03	0.77	1.8	0.5	0.6	7.8	<0.01	0.04	0.6
DD022313	0.15	32.6	460	52.3	13.0	<0.001	0.02	0.37	5.2	0.4	0.4	12.7	0.01	0.03	3.5
DD022314	0.30	24.2	2110	21.1	12.9	0.001	0.16	2.33	1.0	2.3	0.5	39.2	<0.01	0.06	0.2
DD022315	0.56	33.3	1670	21.8	15.1	0.001	0.04	3.72	2.1	2.2	0.5	21.0	<0.01	0.07	0.9
DD022316	0.23	39.7	2230	23.2	10.9	0.002	0.12	2.15	1.8	2.1	0.5	27.6	<0.01	0.06	0.5
DD022317	0.51	15.4	1240	12.0	21.2	0.002	0.10	0.47	2.4	1.3	0.4	36.4	0.01	0.03	1.0
DD022318	0.48	31.7	660	19.8	11.3	0.001	0.04	0.77	6.4	1.6	0.4	24.0	0.01	0.04	2.5
DD022319	0.71	12.2	600	13.7	18.5	<0.001	0.06	0.62	1.3	0.5	0.9	9.2	<0.01	0.04	0.2
DD022320	0.36	15.0	1720	13.3	9.7	0.001	0.13	0.58	1.0	0.7	0.4	9.5	0.01	0.04	0.2
DD022321	0.64	31.7	1870	27.6	26.5	0.001	0.10	0.66	6.1	1.7	0.7	38.2	0.01	0.05	1.7
DD022322	0.44	13.2	840	10.5	24.0	<0.001	0.07	0.48	0.8	0.5	0.6	9.7	<0.01	0.03	<0.2
DD022323	0.60	22.5	560	18.8	13.0	<0.001	0.03	0.73	1.7	0.7	0.5	8.9	<0.01	0.05	0.4
DD022324	0.62	20.7	1470	23.0	11.6	<0.001	0.11	0.50	1.7	0.7	0.4	8.4	0.01	0.04	1.0
DD022325	0.58	22.3	1470	14.0	15.3	0.001	0.08	0.46	3.2	1.0	0.5	30.6	0.01	0.03	1.5
DD022326	0.35	36.6	360	20.9	10.0	<0.001	0.01	0.66	4.8	0.8	0.4	17.7	<0.01	0.06	2.4
DD022327	0.67	19.4	670	25.1	13.5	<0.001	0.04	0.37	2.6	0.4	0.6	8.2	<0.01	0.04	1.6
DD022328	0.66	18.1	870	23.2	15.4	<0.001	0.06	0.39	2.0	0.5	0.6	10.0	<0.01	0.04	0.8
DD022329	0.41	17.1	950	16.4	10.6	<0.001	0.10	0.57	0.9	0.6	0.5	7.7	<0.01	0.04	<0.2
DD022330	0.67	24.7	670	17.0	13.9	<0.001	0.03	0.56	2.6	0.6	0.5	9.2	<0.01	0.06	1.4
DD022331	0.40	16.1	1060	22.2	15.7	<0.001	0.08	0.75	0.9	0.6	0.6	7.8	<0.01	0.06	<0.2
DD022332	0.35	12.2	980	11.4	15.1	<0.001	0.05	0.56	0.7	0.4	0.6	11.6	<0.01	0.04	<0.2
DD022333	0.90	15.8	770	15.8	13.8	<0.001	0.08	0.70	1.5	0.6	0.5	12.3	<0.01	0.03	0.5
DD022334	0.32	13.1	630	96.7	4.4	<0.001	0.04	9.10	2.2	0.5	0.2	70.4	<0.01	0.03	0.6
DD022335	0.77	26.2	1170	41.1	12.5	<0.001	0.07	4.75	3.4	0.6	0.5	21.7	0.01	0.04	1.5
DD022336	0.31	13.2	640	62.6	3.0	<0.001	0.04	7.44	2.0	0.6	0.2	88.3	<0.01	0.04	0.8
DD022337	0.32	17.1	1440	291	4.3	<0.001	0.08	17.25	2.9	0.7	0.3	82.7	0.01	0.04	0.6
DD022338	0.30	17.0	1050	167.0	4.7	<0.001	0.04	8.25	3.5	0.7	0.4	70.5	<0.01	0.03	1.0
DD022339	0.26	19.3	770	68.3	5.3	<0.001	0.04	4.06	2.8	0.7	0.4	17.1	<0.01	0.02	1.9
DD022340	0.39	13.2	1370	60.3	10.6	<0.001	0.07	5.96	1.4	0.4	0.6	17.2	<0.01	0.04	0.4
DD022341	0.44	17.1	870	132.5	9.6	<0.001	0.05	8.24	1.2	0.4	0.6	23.9	<0.01	0.04	0.4
DD022342	0.47	22.7	1240	126.0	9.0	0.001	0.08	17.35	3.5	1.0	0.5	47.5	<0.01	0.04	1.2
DD022343	0.31	8.0	1360	317	5.0	<0.001	0.07	7.21	1.8	1.1	0.3	49.0	<0.01	0.04	0.6
DD022344	0.81	28.6	630	21.7	12.7	<0.001	0.04	0.99	2.0	0.6	0.7	12.9	<0.01	0.04	0.5
DD022345	0.62	20.6	870	19.2	14.8	<0.001	0.05	0.80	1.8	0.6	0.6	17.3	<0.01	0.04	0.5
DD022346	0.61	19.1	650	16.1	14.4	0.001	0.04	0.72	1.4	0.7	0.7	9.7	<0.01	0.04	0.3
DD022347	0.86	23.0	350	16.9	10.4	0.001	0.02	0.52	3.0	0.4	0.5	10.0	<0.01	0.03	2.4
DD022348	0.52	15.7	680	14.3	16.0	0.001	0.04	0.34	2.6	0.4	0.7	19.1	<0.01	0.02	1.0
DD022349	0.32	14.4	850	69.8	3.3	0.001	0.06	2.34	2.8	0.9	0.3	42.1	<0.01	0.04	1.1
DD022350	0.29	16.2	870	78.9	3.6	0.001	0.06	4.16	3.8	0.9	0.4	57.9	<0.01	0.05	1.2

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**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
DD022311		0.012	0.11	0.76	37	0.12	2.60	74	<0.5	
DD022312		0.012	0.14	0.64	39	0.12	3.38	74	<0.5	
DD022313		0.005	0.11	1.07	16	<0.05	15.75	118	2.9	
DD022314		0.010	0.33	0.98	47	0.12	3.35	133	<0.5	
DD022315		0.010	0.36	1.03	64	0.10	2.49	194	0.5	
DD022316		0.005	0.39	1.55	42	0.07	6.56	227	1.1	
DD022317		0.010	0.15	1.86	33	0.12	3.41	107	1.4	
DD022318		0.010	0.13	7.17	38	0.16	25.9	92	1.8	
DD022319		0.022	0.17	0.93	62	0.22	3.30	53	<0.5	
DD022320		0.010	0.08	2.30	56	0.13	11.55	187	<0.5	
DD022321		0.005	0.35	2.78	60	0.16	22.1	145	3.0	
DD022322		0.015	0.18	0.74	48	0.17	2.77	71	<0.5	
DD022323		0.018	0.15	0.73	51	0.19	3.86	99	<0.5	
DD022324		0.008	0.10	0.81	33	0.09	3.87	76	0.9	
DD022325		0.009	0.13	1.37	42	0.16	5.68	91	2.0	
DD022326		0.007	0.14	0.85	45	0.09	9.90	119	0.8	
DD022327		0.010	0.12	0.78	45	0.13	3.59	64	0.6	
DD022328		0.010	0.15	1.32	39	0.16	5.46	51	<0.5	
DD022329		0.016	0.08	0.68	27	0.14	2.54	52	<0.5	
DD022330		0.009	0.17	0.66	57	0.14	3.34	89	0.5	
DD022331		0.016	0.12	0.81	59	0.16	2.79	77	<0.5	
DD022332		0.009	0.26	0.59	51	0.14	1.92	42	<0.5	
DD022333		0.019	0.16	0.58	40	0.17	2.97	121	0.6	
DD022334		0.009	0.47	1.44	17	0.10	9.50	680	0.9	
DD022335		0.018	0.43	1.28	49	0.23	9.81	206	1.7	
DD022336		0.008	0.47	1.50	15	0.12	7.47	499	1.0	
DD022337		0.007	0.48	1.27	25	0.09	10.85	1020	1.3	
DD022338		0.007	0.48	0.84	20	0.11	8.93	1160	1.1	
DD022339		<0.005	0.39	0.74	26	0.11	6.42	157	1.1	
DD022340		0.011	0.73	1.15	46	0.15	5.12	273	<0.5	
DD022341		0.013	0.80	1.15	46	0.17	4.36	325	<0.5	
DD022342		0.015	0.37	1.67	32	0.19	14.55	699	1.6	
DD022343		0.012	0.34	2.41	18	0.09	8.41	931	0.8	
DD022344		0.026	0.20	0.80	64	0.22	4.70	134	<0.5	
DD022345		0.016	0.16	1.15	52	0.19	3.55	95	<0.5	
DD022346		0.019	0.20	0.67	54	0.19	3.30	77	<0.5	
DD022347		0.016	0.13	0.75	41	0.28	4.18	86	0.9	
DD022348		0.008	0.16	0.86	33	0.11	4.92	52	0.5	
DD022349		0.012	0.27	1.21	23	0.10	10.25	119	1.0	
DD022350		0.010	0.81	1.29	20	0.14	11.45	95	1.0	



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022351		0.27	0.003	0.15	0.92	44.9	<0.2	<10	140	0.49	0.16	9.31	0.46	25.3	6.8	15
DD022352		0.27	0.001	0.07	0.52	16	<0.2	<10	60	0.37	0.08	14.00	0.26	8.81	2.8	7
DD022353		0.22	0.001	0.12	1.38	51.1	<0.2	<10	150	0.72	0.20	3.02	0.67	28.2	8.8	21
DD022354		0.22	0.003	0.15	0.88	49.5	<0.2	<10	160	0.53	0.15	5.86	0.77	22.1	6.1	16
DD022355		0.29	0.001	0.06	0.39	62.0	<0.2	<10	50	0.27	0.32	0.13	0.10	7.06	5.5	8
DD022356		0.23	0.002	0.07	0.52	51.4	<0.2	<10	40	0.15	0.34	0.03	0.07	15.40	4.2	13
DD022357		0.25	0.002	0.06	1.13	24.5	<0.2	<10	210	0.86	0.27	0.19	0.28	20.7	8.1	19
DD022358		0.38	0.001	0.05	0.56	11.6	<0.2	<10	130	1.09	0.46	0.15	0.07	17.80	12.0	9
DD022359		0.34	0.001	0.06	0.43	11.2	<0.2	<10	110	1.17	0.54	0.10	0.05	15.75	16.0	7
DD022360		0.26	0.001	0.11	1.18	16.0	<0.2	<10	120	0.55	0.33	0.16	0.10	16.25	7.4	19
DD022361		0.18	0.006	0.08	0.87	6.8	<0.2	<10	410	1.15	0.30	0.09	0.18	10.55	19.7	10
DD022362		0.15	0.005	0.03	1.12	12.8	<0.2	<10	140	0.34	0.32	0.30	0.34	11.35	5.9	18
DD022363		0.16	0.001	0.07	1.42	85.6	<0.2	<10	220	0.57	0.29	0.96	0.41	14.30	10.1	21
DD022364		0.30	0.003	0.16	1.05	106.0	<0.2	<10	180	0.61	0.20	5.77	0.49	18.75	10.4	19
DD022365		0.20	<0.001	0.03	1.31	96.6	<0.2	<10	130	0.42	0.24	0.11	0.44	16.30	7.3	19
DD022366		0.24	0.002	0.02	1.77	20.9	<0.2	<10	140	0.36	0.29	0.11	0.13	18.35	6.0	25
DD022367		0.22	0.002	0.16	1.04	104.5	<0.2	<10	140	0.61	0.14	4.37	0.50	18.20	6.1	16
DD022368		0.29	0.002	0.11	0.54	172.0	<0.2	<10	200	0.20	0.24	0.17	0.35	13.30	3.4	12
DD022369		0.30	0.005	0.15	0.32	120.5	<0.2	<10	620	0.11	0.23	0.06	0.17	10.90	2.8	12
DD022370		0.19	0.006	0.76	0.83	14.0	<0.2	<10	630	0.77	0.26	0.56	0.64	8.05	5.2	11
DD022371		0.14	0.004	0.14	1.74	6.6	<0.2	<10	700	2.15	0.34	0.25	0.28	15.70	5.7	23
DD022372		0.19	0.001	0.05	1.09	9.1	<0.2	<10	110	0.69	0.39	0.02	0.26	15.90	7.1	18
DD022373		0.21	0.001	0.02	0.69	7.9	<0.2	<10	90	0.94	0.59	0.02	0.25	12.45	27.5	11
DD022374		0.17	0.003	0.03	1.07	6.1	<0.2	<10	140	0.64	0.37	0.02	0.28	10.35	8.2	17
DD022375		0.18	0.004	0.13	1.70	10.7	<0.2	<10	580	2.04	0.37	0.83	0.38	17.20	10.5	28
DD022376		0.19	0.004	0.12	0.75	19.0	<0.2	<10	170	1.00	0.30	1.41	0.26	16.95	9.2	14
DD022377		0.28	0.002	0.06	0.52	19.3	<0.2	<10	130	1.75	0.52	0.48	0.08	17.45	13.1	11
DD022378		0.17	0.004	0.09	1.04	20.5	<0.2	<10	140	0.53	0.32	0.35	0.16	16.65	8.9	19
DD022379		0.18	0.004	0.19	0.45	30.9	<0.2	<10	100	1.41	0.42	3.42	0.24	25.4	18.7	11
DD022380		0.26	0.001	0.12	0.70	67.7	<0.2	<10	100	0.89	0.41	0.43	0.43	22.2	14.7	15
DD022381		0.17	0.005	0.19	0.54	81.9	<0.2	<10	50	0.53	0.46	0.06	0.13	10.25	16.0	11
DD022382		0.22	0.008	0.07	0.34	23.6	<0.2	<10	70	0.39	0.40	0.07	0.20	9.15	8.3	8
DD022383		0.21	0.007	0.06	0.48	48.9	<0.2	<10	110	0.55	0.41	0.02	0.24	7.82	12.3	9
DD022384		0.16	0.007	0.08	0.88	28.0	<0.2	<10	310	0.48	0.31	0.07	0.20	12.15	6.3	16
DD022385		0.26	0.009	0.05	0.84	25.9	<0.2	<10	440	0.58	0.41	0.29	0.17	11.85	9.9	14
DD022386		0.17	0.015	0.06	1.35	19.7	<0.2	<10	490	0.71	0.25	0.69	0.97	15.55	6.8	22
DD022387		0.23	0.004	0.10	0.46	33.4	<0.2	<10	80	1.02	0.48	4.32	0.71	12.45	17.6	8
DD022388		0.25	0.003	0.15	0.96	24.7	<0.2	<10	200	1.48	0.52	0.53	0.37	18.55	25.6	14
DD022389		0.19	0.002	0.08	0.98	17.8	<0.2	<10	100	0.77	0.48	0.20	0.49	7.99	14.5	16
DD022390		0.25	0.009	0.12	1.15	10.1	<0.2	<10	120	1.32	0.46	0.12	0.16	15.55	17.6	18



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**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022351		0.60	14.3	2.96	2.20	0.06	0.04	0.88	0.021	0.04	13.9	6.1	5.61	1850	0.60	0.02
DD022352		0.21	8.6	1.80	1.02	<0.05	0.03	0.22	0.008	0.03	4.9	2.7	8.71	1680	0.41	0.03
DD022353		0.78	16.7	4.02	3.50	0.06	0.04	0.89	0.028	0.05	14.6	9.0	1.76	2010	1.14	0.02
DD022354		0.75	14.5	3.34	2.07	<0.05	0.04	1.30	0.022	0.05	10.9	5.1	3.47	2360	0.66	0.02
DD022355		1.59	13.1	2.42	1.61	<0.05	<0.02	2.37	0.025	0.05	3.2	1.8	0.06	278	0.63	<0.01
DD022356		1.57	14.9	2.22	4.64	<0.05	<0.02	0.47	0.020	0.04	7.2	1.9	0.06	169	1.80	<0.01
DD022357		1.13	18.3	2.89	3.13	<0.05	0.02	0.31	0.029	0.07	7.8	8.9	0.21	642	1.19	0.01
DD022358		1.57	39.5	3.17	2.06	<0.05	0.02	0.07	0.035	0.11	8.0	5.1	0.12	387	0.70	<0.01
DD022359		3.12	46.4	3.77	1.56	<0.05	<0.02	0.08	0.035	0.15	6.9	3.9	0.09	800	0.65	<0.01
DD022360		2.00	20.0	2.82	4.46	<0.05	<0.02	0.09	0.028	0.08	6.7	9.6	0.21	375	1.49	<0.01
DD022361		1.56	123.0	2.26	2.54	<0.05	0.02	0.09	0.039	0.19	3.0	4.3	0.07	4780	0.97	<0.01
DD022362		1.40	18.6	3.12	5.26	<0.05	<0.02	0.03	0.026	0.06	5.2	7.4	0.21	192	1.37	0.01
DD022363		0.83	18.5	3.75	4.70	<0.05	0.04	0.60	0.030	0.08	6.4	13.3	0.52	849	1.15	0.01
DD022364		0.44	18.9	3.92	2.57	0.05	0.07	1.15	0.019	0.05	10.1	9.5	3.62	1140	0.91	0.02
DD022365		1.34	16.5	3.84	4.96	<0.05	<0.02	1.73	0.023	0.06	7.0	10.0	0.19	400	1.22	0.01
DD022366		1.83	12.8	2.91	6.69	<0.05	<0.02	0.06	0.028	0.05	9.1	13.2	0.26	413	1.68	0.01
DD022367		0.64	10.7	3.50	2.19	0.05	0.05	1.81	0.018	0.04	8.6	6.5	2.60	1160	0.82	0.01
DD022368		1.62	14.8	2.18	4.46	<0.05	<0.02	0.89	0.021	0.06	6.2	1.2	0.05	164	1.41	0.01
DD022369		1.72	19.2	1.25	2.26	<0.05	<0.02	5.93	0.015	0.04	5.2	0.7	0.02	64	1.72	0.01
DD022370		4.63	21.3	2.22	2.76	<0.05	0.03	0.17	0.033	0.08	4.1	5.1	0.15	180	2.86	0.01
DD022371		6.36	30.4	2.71	4.97	<0.05	0.02	0.05	0.032	0.08	7.1	20.2	0.29	404	1.27	0.01
DD022372		4.00	23.6	3.32	6.55	<0.05	<0.02	0.06	0.033	0.07	7.0	8.0	0.11	490	2.40	<0.01
DD022373		5.11	32.5	3.67	3.23	<0.05	<0.02	0.03	0.050	0.09	5.3	4.7	0.10	1650	1.24	<0.01
DD022374		5.11	19.7	2.99	5.26	<0.05	<0.02	0.02	0.030	0.09	4.5	12.0	0.16	460	1.08	0.01
DD022375		6.78	42.8	2.95	4.44	0.05	0.08	0.06	0.034	0.10	8.8	19.0	0.53	757	1.09	0.01
DD022376		1.93	24.9	3.23	1.89	<0.05	0.06	0.95	0.037	0.05	7.4	4.6	0.11	461	0.74	0.01
DD022377		3.96	32.0	4.45	1.24	0.06	0.06	0.35	0.053	0.06	7.5	3.6	0.07	461	0.47	<0.01
DD022378		3.99	23.1	2.99	3.96	<0.05	<0.02	0.12	0.040	0.05	7.3	11.2	0.25	258	1.13	<0.01
DD022379		2.11	48.9	4.33	1.12	0.06	0.05	0.80	0.059	0.05	9.2	2.9	0.09	578	0.95	0.01
DD022380		2.66	36.8	3.33	2.05	<0.05	0.06	0.58	0.050	0.06	8.6	5.7	0.07	619	0.80	<0.01
DD022381		4.32	39.9	4.60	1.59	<0.05	0.02	1.63	0.050	0.04	4.2	2.6	0.04	470	1.17	<0.01
DD022382		5.07	27.6	2.96	2.12	<0.05	<0.02	0.14	0.033	0.06	4.4	1.6	0.04	265	0.97	<0.01
DD022383		4.49	32.5	4.53	1.67	<0.05	<0.02	0.98	0.042	0.05	3.1	1.7	0.04	673	1.22	<0.01
DD022384		5.98	13.6	2.92	3.59	<0.05	0.02	0.12	0.029	0.06	5.4	9.6	0.14	248	0.95	<0.01
DD022385		1.83	24.4	3.49	3.08	<0.05	0.05	0.12	0.040	0.07	5.0	7.8	0.14	414	1.22	<0.01
DD022386		1.16	16.8	2.92	4.03	<0.05	0.06	0.12	0.032	0.06	6.4	13.5	0.34	362	1.23	0.01
DD022387		1.65	43.9	2.86	1.17	<0.05	0.07	0.70	0.053	0.08	5.1	8.0	0.35	201	0.74	0.01
DD022388		2.50	42.6	3.40	2.55	0.05	0.10	0.27	0.045	0.10	7.9	17.9	0.21	1180	0.64	<0.01
DD022389		2.48	31.8	3.21	3.38	<0.05	0.04	0.09	0.037	0.09	3.6	13.9	0.19	641	0.64	<0.01
DD022390		5.87	40.2	4.13	3.57	<0.05	0.04	0.13	0.038	0.14	5.7	20.5	0.21	1060	0.77	<0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD022351		0.42	13.7	1130	46.4	4.5	0.001	0.07	2.44	2.4	0.9	0.3	55.0	<0.01	0.04	0.9
DD022352		0.21	2.1	1100	14.6	2.2	0.001	0.10	0.65	0.7	0.6	0.2	55.7	<0.01	0.02	0.2
DD022353		0.46	21.1	790	61.2	6.2	0.001	0.08	3.21	3.2	1.2	0.4	28.9	<0.01	0.04	1.0
DD022354		0.25	14.9	1230	70.6	4.1	0.001	0.09	2.75	1.9	0.9	0.3	33.2	<0.01	0.02	0.7
DD022355		0.26	16.4	430	24.2	6.3	<0.001	0.03	0.53	1.6	0.2	0.4	9.8	<0.01	<0.01	0.7
DD022356		0.56	12.6	420	31.2	7.7	0.001	0.03	0.91	1.0	0.4	0.7	8.3	<0.01	0.04	<0.2
DD022357		0.41	21.3	720	26.4	10.4	0.001	0.04	0.71	2.3	0.7	0.4	14.6	<0.01	0.02	0.9
DD022358		0.30	25.1	250	14.5	10.6	0.001	0.02	0.34	3.9	0.4	0.6	34.4	<0.01	0.02	2.9
DD022359		0.22	25.6	210	16.9	11.6	<0.001	0.02	0.43	5.3	0.6	0.4	31.8	<0.01	0.04	3.3
DD022360		0.51	18.2	800	15.0	14.9	0.001	0.05	0.62	1.4	0.4	0.7	16.0	<0.01	0.04	0.3
DD022361		0.29	16.4	990	14.6	16.3	0.001	0.06	0.56	4.3	0.7	0.5	9.8	<0.01	0.02	1.5
DD022362		0.60	14.0	360	14.0	9.6	0.001	0.03	0.59	2.2	0.5	0.6	10.5	<0.01	0.03	1.0
DD022363		0.68	19.3	600	44.9	9.0	0.001	0.05	4.95	3.5	0.7	0.6	18.4	<0.01	0.03	1.6
DD022364		0.58	24.4	690	54.3	4.1	0.001	0.05	6.76	3.7	1.0	0.4	65.6	<0.01	0.03	2.3
DD022365		0.57	15.4	620	72.0	11.6	0.001	0.04	6.48	2.5	0.4	0.6	8.5	<0.01	0.04	1.1
DD022366		0.66	13.5	680	15.6	10.5	0.001	0.04	0.80	1.0	0.8	0.8	10.4	<0.01	0.04	0.2
DD022367		0.33	15.4	1060	86.4	4.8	0.001	0.05	6.25	3.5	0.7	0.3	28.3	<0.01	0.03	1.5
DD022368		0.47	10.4	830	287	7.0	0.001	0.12	15.50	0.9	0.7	0.8	25.4	<0.01	0.03	0.3
DD022369		0.30	9.7	560	141.0	4.6	0.001	0.07	14.90	0.9	0.4	1.2	8.8	<0.01	0.03	0.2
DD022370		0.29	16.7	1650	10.9	21.4	0.001	0.09	0.74	1.8	0.9	0.5	29.6	<0.01	0.04	0.4
DD022371		0.53	22.5	1740	13.0	17.5	<0.001	0.12	0.53	1.4	1.2	0.6	26.9	<0.01	0.02	0.3
DD022372		0.69	13.4	500	14.1	19.1	<0.001	0.02	0.76	2.2	0.6	0.7	16.2	<0.01	0.05	0.8
DD022373		0.34	17.5	570	20.1	15.2	<0.001	0.02	0.47	3.7	0.5	0.5	13.5	<0.01	0.05	1.3
DD022374		0.61	14.4	500	10.7	17.3	0.001	0.03	0.37	2.7	0.3	0.6	13.2	<0.01	0.05	1.3
DD022375		0.74	23.2	1620	16.9	28.1	0.001	0.13	0.58	4.4	1.1	0.5	74.9	0.01	0.03	1.4
DD022376		0.38	23.4	870	22.1	10.8	0.001	0.09	0.57	4.9	0.9	0.3	58.5	<0.01	0.03	1.5
DD022377		0.19	35.0	470	25.6	7.6	0.001	0.03	0.42	9.6	0.9	0.4	38.5	<0.01	0.07	3.3
DD022378		0.65	23.8	580	19.0	13.2	0.001	0.05	0.74	2.6	0.5	0.5	22.3	<0.01	0.05	0.7
DD022379		0.13	43.3	800	36.4	4.1	0.001	0.06	0.63	9.6	1.0	0.3	136.0	<0.01	0.10	3.2
DD022380		0.26	46.7	450	110.5	6.3	0.001	0.04	1.26	6.8	0.8	0.3	20.6	<0.01	0.11	2.9
DD022381		0.21	46.2	640	55.1	9.0	0.001	0.06	1.62	3.5	1.0	0.4	12.8	<0.01	0.07	0.8
DD022382		0.22	21.1	770	18.4	11.1	<0.001	0.06	0.80	1.5	0.2	0.4	10.2	<0.01	0.08	0.2
DD022383		0.18	33.7	810	75.1	11.5	0.001	0.05	2.49	2.3	0.4	0.4	5.8	<0.01	0.06	0.5
DD022384		0.57	14.6	700	17.2	15.4	0.001	0.06	0.86	2.1	0.5	0.5	10.5	<0.01	0.05	0.9
DD022385		0.38	22.9	770	28.7	13.1	0.001	0.06	1.63	3.1	0.6	0.4	18.0	<0.01	0.09	1.0
DD022386		0.41	18.2	1120	24.1	9.8	0.001	0.08	1.99	3.2	0.5	0.5	28.9	<0.01	0.04	1.2
DD022387		0.05	39.8	820	53.4	3.3	0.001	0.04	1.32	9.0	0.9	0.4	130.5	<0.01	0.06	3.7
DD022388		0.16	35.2	770	32.5	6.3	0.001	0.06	0.69	8.1	1.0	0.4	25.9	<0.01	0.10	3.5
DD022389		0.20	17.9	1000	33.1	9.2	<0.001	0.07	0.52	2.5	0.4	0.4	15.1	<0.01	0.05	1.3
DD022390		0.29	26.6	1010	33.5	15.4	0.001	0.06	0.47	2.9	0.7	0.6	16.6	<0.01	0.03	1.3





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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
DD022351		0.017	0.20	1.47	27	0.13	13.90	173	1.0	
DD022352		0.009	0.13	1.99	12	0.06	6.65	104	0.8	
DD022353		0.017	0.29	1.44	38	0.13	14.40	483	1.0	
DD022354		0.010	0.26	1.38	25	0.11	11.45	353	0.9	
DD022355		0.005	0.29	0.39	14	0.08	2.16	78	<0.5	
DD022356		0.027	0.16	0.43	50	0.18	1.94	77	<0.5	
DD022357		0.010	0.14	0.81	32	0.25	6.38	117	0.5	
DD022358		0.006	0.09	0.65	16	0.05	6.01	55	<0.5	
DD022359		0.006	0.08	0.70	13	<0.05	7.56	51	0.6	
DD022360		0.012	0.19	0.66	39	0.15	2.95	57	<0.5	
DD022361		0.007	0.15	0.58	19	0.05	4.57	36	0.5	
DD022362		0.012	0.09	0.44	44	0.10	2.03	86	<0.5	
DD022363		0.010	0.32	0.65	48	0.14	4.69	254	1.1	
DD022364		0.020	1.07	1.12	32	0.18	13.35	709	1.5	
DD022365		0.010	0.53	0.86	48	0.12	3.31	532	<0.5	
DD022366		0.019	0.52	0.54	63	0.23	2.25	72	<0.5	
DD022367		0.009	0.63	2.99	28	0.09	12.90	392	1.3	
DD022368		0.014	1.07	0.95	45	0.15	1.99	179	<0.5	
DD022369		0.014	0.67	0.50	35	0.10	1.17	48	<0.5	
DD022370		<0.005	0.19	1.57	29	0.08	5.02	98	0.6	
DD022371		0.009	0.12	1.99	38	0.12	7.45	84	<0.5	
DD022372		0.011	0.13	0.64	45	0.09	3.33	83	<0.5	
DD022373		0.007	0.09	0.45	30	0.06	2.63	99	<0.5	
DD022374		0.009	0.11	0.33	33	0.07	2.36	76	<0.5	
DD022375		0.018	0.10	2.63	39	0.19	13.00	127	1.7	
DD022376		0.005	0.14	0.81	22	0.10	12.90	87	1.6	
DD022377		<0.005	0.08	1.09	18	<0.05	16.10	117	1.5	
DD022378		0.014	0.16	0.57	38	0.33	3.50	70	<0.5	
DD022379		<0.005	0.17	1.50	18	<0.05	22.3	120	1.6	
DD022380		<0.005	0.15	1.02	29	0.06	13.20	246	1.8	
DD022381		0.005	0.36	0.62	19	0.08	6.67	56	<0.5	
DD022382		0.007	0.06	0.47	26	0.08	2.44	61	<0.5	
DD022383		<0.005	0.25	0.55	23	0.06	3.84	142	<0.5	
DD022384		0.008	0.10	0.50	35	0.10	2.59	64	<0.5	
DD022385		0.007	0.11	0.54	32	0.12	3.87	86	1.1	
DD022386		0.008	0.11	1.10	42	0.10	6.21	221	1.2	
DD022387		<0.005	0.10	1.73	10	<0.05	16.30	408	2.3	
DD022388		<0.005	0.09	1.23	17	<0.05	17.45	128	2.5	
DD022389		<0.005	0.05	0.48	17	<0.05	4.09	116	0.9	
DD022390		0.007	0.10	0.80	19	0.05	7.77	82	0.8	



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**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022391		0.24	0.002	0.15	0.95	25.1	<0.2	<10	310	0.73	0.40	0.44	0.19	13.75	7.3	14
DD022392		0.24	0.007	0.12	0.70	13.1	<0.2	<10	130	0.75	0.48	0.07	0.14	14.45	13.5	9
DD022393		0.25	0.013	0.05	0.69	8.6	<0.2	<10	110	1.18	0.50	0.06	0.08	17.65	17.5	8
DD022394		0.29	0.004	0.05	0.94	9.2	<0.2	<10	80	0.91	0.48	0.03	0.07	14.85	16.6	14
DD022395		0.20	0.002	0.07	0.53	6.7	<0.2	<10	100	0.75	0.41	0.10	0.09	15.15	13.7	8
DD022396		0.29	0.004	0.05	0.75	46.3	<0.2	<10	150	1.15	0.44	0.12	0.05	19.00	26.1	10
DD022397		0.24	0.002	0.03	0.66	23.6	<0.2	<10	200	0.65	0.40	0.20	0.07	13.85	14.0	9
DD022398		0.21	0.003	0.02	1.61	9.6	<0.2	<10	210	0.95	0.31	0.16	0.16	30.9	8.0	24
DD022399		0.18	0.004	0.14	1.21	130.0	<0.2	<10	300	0.68	0.21	8.90	0.75	42.9	8.2	18
DD022400		0.22	0.003	0.15	1.21	48.6	<0.2	<10	210	0.83	0.21	6.29	0.59	39.7	8.5	19
DD022401		0.27	0.002	0.21	0.28	53	<0.2	<10	120	0.28	0.07	15.85	0.17	14.25	3.4	8
DD022402		0.23	0.004	0.61	0.48	73.5	<0.2	<10	80	0.56	0.22	1.01	0.16	32.1	9.2	14
DD022403		0.23	0.003	0.21	1.31	100.0	<0.2	<10	180	0.76	0.23	1.53	0.80	30.4	8.1	23
DD022404		0.21	0.004	0.11	1.53	35.4	<0.2	<10	310	0.83	0.28	0.75	0.59	22.4	8.6	26
DD022405		0.20	0.004	0.07	1.66	38.7	<0.2	<10	220	0.63	0.27	0.27	0.23	25.2	9.0	30
DD022406		0.23	0.002	0.07	0.91	113.5	<0.2	<10	140	0.45	0.13	4.25	0.99	19.60	4.4	14
DD022407		0.46	0.002	0.05	0.19	312	<0.2	<10	80	0.15	0.03	17.65	1.63	5.39	1.0	3
DD022408		0.22	0.002	0.04	1.64	51.9	<0.2	<10	250	0.40	0.28	0.23	0.59	18.50	7.1	22
DD022409		0.26	0.002	0.10	1.72	16.9	<0.2	<10	270	0.76	0.27	0.71	0.60	22.7	9.2	27
DD022410		0.23	0.003	0.48	0.84	67.8	<0.2	<10	180	0.97	0.22	5.87	0.46	10.45	6.6	11
DD022411		0.20	0.010	0.24	1.02	12.3	<0.2	<10	250	1.02	0.24	1.46	0.26	16.35	9.3	17
DD022412		0.22	0.007	0.08	1.19	12.6	<0.2	<10	100	0.64	0.27	0.07	0.21	16.80	7.7	20
DD022413		0.26	0.001	0.04	0.92	13.5	<0.2	<10	140	0.18	0.26	0.04	0.22	13.75	5.9	14
DD022414		0.21	0.004	0.10	1.39	94.3	<0.2	<10	190	0.99	0.25	0.79	0.32	29.3	8.6	21
DD022415		0.22	0.002	0.16	1.09	509	<0.2	<10	350	0.90	0.14	9.92	0.62	15.65	6.8	14
DD022416		0.23	0.002	0.13	1.70	530	<0.2	<10	370	0.70	0.20	5.65	1.61	37.3	8.9	20
DD022417		0.18	0.002	0.11	2.18	64.9	<0.2	<10	210	1.08	0.27	1.67	0.56	37.5	11.0	30
DD022418		0.21	0.007	0.09	1.41	81.9	<0.2	<10	190	0.94	0.27	0.93	1.10	20.3	12.8	23
DD022419		0.23	0.007	0.13	0.82	17.6	<0.2	<10	210	0.86	0.30	0.51	0.35	15.85	12.7	16
DD022420		0.30	0.012	0.24	0.84	39.0	<0.2	<10	160	0.80	0.29	0.98	0.99	16.15	11.5	16
DD022421		0.21	0.012	0.26	0.41	44.7	<0.2	<10	110	0.78	0.21	2.95	0.37	12.05	9.8	9
DD022422		0.23	0.011	0.42	0.57	74.9	<0.2	<10	120	0.86	0.27	1.30	10.80	14.65	9.2	11
DD022423		0.23	0.010	0.20	0.48	33.5	<0.2	<10	80	0.46	0.15	2.15	2.62	10.00	5.5	9
DD022424		0.19	0.006	0.20	0.70	36.2	<0.2	10	90	0.65	0.15	3.61	2.22	15.65	5.6	12
DD022425		0.25	0.002	0.09	1.25	13.6	<0.2	<10	150	0.26	0.26	0.20	0.90	21.6	4.5	18
DD022426		0.19	0.010	2.11	0.65	35.8	<0.2	<10	160	0.55	0.13	1.94	111.5	9.56	14.4	9
DD022427		0.24	0.007	0.14	0.68	25.2	<0.2	<10	200	0.72	0.21	2.72	1.18	12.10	8.5	9
DD022428		0.24	0.009	0.19	0.81	10.0	<0.2	<10	170	0.79	0.27	1.50	0.31	17.80	8.8	13
DD022429		0.20	0.001	0.04	0.49	5.4	<0.2	<10	150	0.49	0.34	0.09	0.17	7.99	18.0	9
DD022430		0.23	0.007	0.06	0.56	48.3	<0.2	<10	180	0.30	0.32	0.17	0.18	10.30	14.9	11



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022391		2.85	19.9	2.64	3.37	<0.05	0.07	0.30	0.028	0.12	7.6	5.5	0.16	266	0.71	0.01
DD022392		9.42	30.1	2.26	2.20	<0.05	0.02	0.05	0.024	0.22	5.0	3.9	0.06	330	0.72	<0.01
DD022393		11.20	69.5	3.45	2.10	<0.05	0.02	0.05	0.031	0.24	6.1	4.9	0.05	705	0.71	<0.01
DD022394		11.45	32.9	2.65	3.74	<0.05	0.03	0.05	0.023	0.18	6.4	11.0	0.12	1020	0.74	<0.01
DD022395		2.85	32.3	2.82	1.65	<0.05	0.02	0.04	0.034	0.11	6.3	4.4	0.06	770	0.42	<0.01
DD022396		1.49	64.2	2.94	2.40	<0.05	<0.02	0.23	0.032	0.13	7.9	5.6	0.08	1040	1.30	<0.01
DD022397		2.57	70.2	2.14	2.09	<0.05	<0.02	0.11	0.028	0.15	5.2	5.4	0.08	303	3.20	<0.01
DD022398		12.20	14.7	3.06	4.57	0.06	<0.02	0.06	0.034	0.07	15.5	14.0	0.31	399	1.06	<0.01
DD022399		0.92	18.4	4.08	2.71	0.08	0.06	0.21	0.031	0.04	25.9	7.8	5.27	4020	0.64	0.02
DD022400		0.59	20.3	3.89	2.82	0.07	0.06	1.56	0.028	0.05	25.0	5.8	3.72	4760	0.68	0.02
DD022401		0.46	10.5	1.15	0.74	<0.05	0.04	1.31	0.007	0.02	7.4	2.3	9.64	704	0.35	0.03
DD022402		0.88	24.7	2.96	1.35	0.05	0.06	2.56	0.040	0.04	9.9	2.7	0.15	306	0.71	0.01
DD022403		0.86	15.4	3.84	3.05	0.05	0.07	1.89	0.034	0.05	11.4	6.0	0.59	2180	0.80	0.01
DD022404		1.52	17.5	3.73	4.53	0.05	0.09	0.38	0.038	0.08	10.4	9.9	0.31	1140	1.60	0.01
DD022405		1.59	16.0	3.57	4.92	<0.05	<0.02	0.46	0.034	0.05	9.6	13.0	0.36	1070	1.43	0.01
DD022406		0.59	6.5	2.65	2.24	<0.05	0.04	0.66	0.020	0.04	8.9	4.2	2.37	1760	0.64	0.01
DD022407		0.22	2.9	1.64	0.53	<0.05	0.02	7.83	0.007	0.01	2.9	1.6	10.60	1030	0.21	0.02
DD022408		1.04	13.6	3.65	6.44	<0.05	0.03	0.18	0.029	0.06	8.5	20.6	0.28	400	1.51	<0.01
DD022409		1.01	20.3	3.14	5.13	0.05	0.05	0.24	0.034	0.07	9.2	17.9	0.50	582	1.16	0.01
DD022410		3.83	22.5	2.61	1.76	<0.05	0.07	1.83	0.023	0.08	5.9	9.0	3.06	1100	0.53	0.02
DD022411		22.4	26.3	3.04	2.41	<0.05	0.08	0.19	0.031	0.11	7.2	7.8	0.22	1160	0.76	0.01
DD022412		10.90	16.0	3.28	4.47	<0.05	<0.02	0.05	0.033	0.09	7.7	11.4	0.22	368	1.22	<0.01
DD022413		1.97	13.2	2.90	4.81	<0.05	<0.02	0.06	0.022	0.07	6.1	6.2	0.12	627	1.40	<0.01
DD022414		1.23	15.3	5.21	3.21	0.08	0.10	1.26	0.043	0.04	19.3	6.9	0.32	2350	0.50	0.02
DD022415		0.60	13.7	3.38	2.74	0.05	0.08	3.06	0.020	0.07	9.8	7.9	5.87	3310	0.75	0.03
DD022416		0.92	14.9	5.69	4.37	0.08	0.10	1.33	0.031	0.07	21.0	15.0	3.41	5650	0.88	0.03
DD022417		1.32	18.6	6.22	5.91	0.08	0.09	0.56	0.040	0.09	20.4	13.4	0.95	3570	1.32	0.02
DD022418		0.92	26.0	3.96	3.97	0.06	0.07	0.98	0.036	0.09	9.5	13.3	0.45	1450	1.41	0.02
DD022419		19.30	36.3	2.95	2.36	<0.05	0.06	0.13	0.032	0.07	7.2	9.6	0.19	646	0.88	0.02
DD022420		7.18	38.9	3.13	2.55	<0.05	0.06	1.24	0.033	0.06	7.2	13.9	0.30	364	1.17	0.02
DD022421		4.34	38.7	1.64	0.97	<0.05	0.11	0.78	0.027	0.06	5.1	2.3	0.24	282	1.34	0.02
DD022422		20.9	51.0	2.34	1.75	<0.05	0.08	4.48	0.036	0.06	6.4	4.8	0.18	289	1.52	0.02
DD022423		2.58	26.8	1.19	1.50	<0.05	0.06	0.63	0.020	0.05	5.1	3.3	0.10	237	0.70	0.02
DD022424		0.90	24.1	1.43	1.73	<0.05	0.09	0.45	0.026	0.05	8.8	4.5	0.11	885	1.28	0.02
DD022425		2.46	7.2	1.65	6.45	<0.05	<0.02	0.98	0.019	0.04	10.9	12.1	0.24	278	1.23	0.01
DD022426		8.67	157.0	1.08	2.30	0.05	0.06	11.40	0.018	0.04	4.6	3.5	0.22	502	0.62	0.02
DD022427		4.08	24.3	2.09	2.04	<0.05	0.05	0.28	0.031	0.04	4.8	4.4	0.07	331	0.56	0.02
DD022428		2.89	23.6	2.56	2.60	<0.05	0.05	0.21	0.036	0.06	6.9	6.7	0.11	657	0.87	0.02
DD022429		12.65	24.9	3.19	2.72	<0.05	<0.02	0.03	0.034	0.10	3.6	2.0	0.05	1180	0.50	0.01
DD022430		3.11	17.3	2.78	3.04	<0.05	<0.02	0.04	0.025	0.06	4.8	4.1	0.07	515	1.13	0.01

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD022391		0.38	15.3	1120	19.9	21.8	0.001	0.08	0.73	2.9	<0.2	0.6	33.6	<0.01	0.02	1.2
DD022392		0.19	16.7	540	19.5	21.1	<0.001	0.06	0.52	2.2	0.4	0.6	14.3	<0.01	0.02	1.5
DD022393		0.19	21.4	580	26.0	22.8	<0.001	0.05	0.42	3.6	0.5	0.5	10.3	<0.01	0.05	3.0
DD022394		0.44	16.3	430	21.5	20.8	0.001	0.04	0.47	2.3	0.3	0.7	8.5	<0.01	0.04	2.8
DD022395		0.11	19.8	410	17.2	9.6	0.002	0.05	0.26	3.5	0.2	0.5	12.9	<0.01	0.02	1.7
DD022396		0.20	29.9	260	28.7	10.5	0.001	0.06	0.85	4.5	0.6	0.5	28.4	<0.01	0.05	2.7
DD022397		0.16	16.0	170	24.0	11.7	<0.001	0.04	0.89	3.9	0.4	0.5	14.1	<0.01	0.07	1.7
DD022398		0.54	18.2	710	12.5	14.4	0.001	0.05	0.64	2.6	1.1	0.5	11.5	<0.01	0.05	0.6
DD022399		0.28	23.3	1830	60.9	8.1	0.001	0.09	3.13	4.3	1.2	0.4	85.7	<0.01	0.07	1.2
DD022400		0.20	19.0	1820	72.5	7.1	0.001	0.17	3.55	2.7	1.6	0.4	50.6	<0.01	0.07	0.7
DD022401		0.14	13.0	630	54.6	2.0	<0.001	0.07	6.03	2.2	0.2	0.2	157.5	<0.01	0.03	1.4
DD022402		0.13	30.5	560	44.4	3.0	0.001	0.07	2.00	4.8	1.6	0.4	33.9	<0.01	0.03	1.4
DD022403		0.27	19.3	1280	112.0	6.6	0.001	0.11	5.57	2.9	0.9	0.4	27.0	<0.01	0.02	1.0
DD022404		0.52	21.2	2050	53.8	14.6	0.001	0.10	1.79	3.9	0.6	0.6	19.4	0.01	0.03	1.5
DD022405		0.42	23.5	730	74.8	12.4	0.001	0.05	1.63	1.4	0.7	0.6	14.1	<0.01	0.02	0.3
DD022406		0.25	9.4	1210	137.0	4.3	0.001	0.08	3.09	2.3	0.4	0.3	18.7	0.02	0.03	0.6
DD022407		0.08	4.5	580	12.0	1.3	0.001	0.03	1.30	3.0	0.3	0.2	86.0	<0.01	0.01	0.5
DD022408		0.77	15.7	260	53.8	12.3	<0.001	0.03	1.74	3.0	0.5	0.7	13.8	<0.01	0.04	2.4
DD022409		0.73	22.9	750	24.3	11.1	0.001	0.06	0.64	3.9	0.6	0.5	17.3	<0.01	0.03	1.4
DD022410		0.24	19.8	920	40.3	19.8	0.001	0.10	1.82	3.5	0.7	0.4	36.9	<0.01	0.03	1.1
DD022411		0.34	25.4	1030	22.9	23.1	<0.001	0.12	0.38	6.0	1.0	0.4	70.6	<0.01	0.03	1.6
DD022412		0.86	15.6	420	13.2	14.1	<0.001	0.04	0.53	2.7	0.4	0.6	8.1	<0.01	0.03	1.8
DD022413		0.55	11.9	470	14.9	13.7	0.001	0.04	0.56	1.8	0.3	0.6	6.1	<0.01	0.04	0.8
DD022414		0.25	19.5	900	42.4	7.0	<0.001	0.03	2.25	7.0	0.8	0.5	13.0	0.01	0.06	3.6
DD022415		0.35	17.7	1210	25.0	8.2	<0.001	0.06	7.89	3.1	0.8	0.3	60.6	0.01	0.03	0.9
DD022416		0.55	18.4	1490	49.0	11.1	<0.001	0.07	22.4	3.4	1.1	0.5	60.3	0.01	0.06	1.3
DD022417		0.80	24.1	800	35.2	11.2	<0.001	0.04	1.68	5.7	1.0	0.6	17.3	0.01	0.06	2.7
DD022418		0.43	27.4	550	47.6	9.4	<0.001	0.04	2.72	4.6	0.9	0.4	14.0	0.01	0.05	2.8
DD022419		0.28	27.8	530	23.2	12.2	<0.001	0.05	0.60	4.9	0.8	0.3	36.6	<0.01	0.05	1.7
DD022420		0.39	31.5	460	102.5	11.7	<0.001	0.04	4.27	4.6	1.1	0.3	46.2	<0.01	0.04	2.3
DD022421		0.17	24.3	710	35.6	6.2	<0.001	0.09	2.85	3.0	1.3	0.3	74.4	<0.01	0.04	1.2
DD022422		0.26	32.4	730	546	14.6	<0.001	0.06	7.93	3.8	1.7	0.3	64.1	<0.01	0.05	1.6
DD022423		0.29	12.7	790	45.7	7.9	<0.001	0.11	3.87	1.9	1.1	0.3	76.0	<0.01	0.03	0.5
DD022424		0.34	14.2	1350	32.0	6.1	0.001	0.16	2.92	2.8	1.5	0.3	129.0	0.01	0.03	0.3
DD022425		1.12	8.2	280	104.0	7.3	<0.001	<0.01	1.53	2.4	0.5	0.7	14.1	<0.01	0.02	2.3
DD022426		0.30	34.3	1290	8230	7.6	<0.001	0.23	61.8	1.1	3.1	0.2	54.2	0.01	0.03	0.2
DD022427		0.32	19.6	1080	29.5	10.3	<0.001	0.14	3.23	2.1	1.1	0.3	96.6	0.01	0.04	0.6
DD022428		0.40	19.3	1190	18.5	11.2	<0.001	0.11	0.29	2.7	0.9	0.4	74.3	0.01	0.06	1.0
DD022429		0.24	21.0	880	10.9	23.5	<0.001	0.02	0.23	2.3	0.4	0.5	9.4	<0.01	0.08	0.4
DD022430		0.55	23.5	350	21.7	18.6	<0.001	0.01	0.56	2.0	0.5	0.4	12.2	<0.01	0.05	0.8



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**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
DD022391		0.006	0.12	0.72	25	0.08	7.27	98	1.5	
DD022392		<0.005	0.16	0.57	15	<0.05	6.32	51	0.5	
DD022393		<0.005	0.18	0.72	16	<0.05	6.30	63	0.6	
DD022394		0.009	0.16	0.65	23	0.06	4.84	67	0.7	
DD022395		<0.005	0.10	0.61	13	<0.05	7.60	53	0.5	
DD022396		<0.005	0.26	0.84	17	<0.05	7.51	46	0.5	
DD022397		<0.005	0.20	0.60	13	<0.05	4.29	32	<0.5	
DD022398		0.021	0.10	0.83	42	0.20	11.30	65	<0.5	
DD022399		0.009	0.30	3.07	29	0.13	30.5	277	1.3	
DD022400		0.009	0.51	2.58	31	0.08	26.3	223	1.3	
DD022401		0.005	0.29	1.89	11	0.05	7.75	70	1.3	
DD022402		<0.005	0.65	1.09	14	<0.05	18.65	75	1.5	
DD022403		0.009	0.46	1.41	35	0.10	13.55	298	1.8	
DD022404		0.013	0.37	1.34	47	0.13	11.15	206	2.2	
DD022405		0.017	0.38	0.82	53	0.21	5.27	150	<0.5	
DD022406		0.011	0.35	1.64	26	0.12	7.73	456	0.8	
DD022407		<0.005	0.15	1.16	5	<0.05	5.03	973	0.7	
DD022408		0.008	0.18	0.36	68	0.12	2.03	231	0.9	
DD022409		0.014	0.15	1.57	53	0.12	6.41	138	1.1	
DD022410		0.005	0.24	1.21	19	0.05	10.45	217	1.6	
DD022411		0.005	0.16	1.62	24	0.06	12.65	67	1.8	
DD022412		0.017	0.09	0.48	46	0.18	2.02	56	<0.5	
DD022413		0.013	0.11	0.30	50	0.11	1.58	63	<0.5	
DD022414		<0.005	0.44	1.46	30	0.14	19.75	227	1.9	
DD022415		0.007	3.62	1.99	30	0.17	17.95	405	1.8	
DD022416		0.014	0.44	2.38	38	0.17	21.9	753	2.4	
DD022417		0.011	0.42	2.29	58	0.17	19.10	154	2.0	
DD022418		0.005	0.28	1.22	42	0.11	13.20	250	1.8	
DD022419		<0.005	0.12	0.99	22	0.06	12.05	79	1.4	
DD022420		0.007	0.27	2.19	25	0.09	10.05	1010	1.9	
DD022421		<0.005	0.24	5.35	16	0.05	10.80	129	3.8	
DD022422		<0.005	0.69	2.91	20	0.06	11.10	4170	2.2	
DD022423		0.006	0.17	6.54	20	0.06	6.74	1190	2.1	
DD022424		0.008	0.17	10.75	27	0.07	17.15	304	2.5	
DD022425		0.018	0.27	0.98	49	0.21	2.89	362	<0.5	
DD022426		0.008	0.25	14.80	12	0.05	9.07	>10000	1.6	3.25
DD022427		<0.005	0.14	4.44	18	0.06	7.97	189	1.4	
DD022428		0.006	0.08	1.89	26	0.08	8.35	57	1.3	
DD022429		0.006	0.07	0.36	24	0.05	1.89	98	<0.5	
DD022430		0.011	0.15	0.53	30	0.09	2.23	47	<0.5	





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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022431		0.22	0.012	0.29	0.51	55.2	<0.2	<10	90	1.00	0.47	1.60	0.20	14.85	17.2	13
DD022432		0.22	0.008	0.37	0.56	39.2	<0.2	<10	140	0.82	0.26	4.01	0.73	18.20	10.0	10
DD022433		0.23	0.007	0.14	0.91	18.0	<0.2	<10	100	0.78	0.30	0.50	0.26	18.45	12.3	27
DD022434		0.23	0.002	0.09	0.97	8.8	<0.2	<10	180	0.58	0.32	0.03	0.21	13.50	9.1	15
DD022435		0.29	0.002	0.03	0.40	24.9	<0.2	<10	90	0.65	0.44	0.08	0.05	18.70	14.9	10
DD022436		0.33	0.002	0.02	0.65	11.4	<0.2	<10	100	1.20	0.40	0.02	0.08	24.3	16.8	10
DD022437		0.27	0.002	0.04	1.61	11.5	<0.2	<10	800	0.67	0.35	0.45	0.10	15.65	8.9	17
DD022438		0.17	0.002	0.10	1.06	18.0	<0.2	<10	210	0.49	0.34	0.06	0.23	20.1	8.0	20
DD022439		0.16	0.003	0.07	0.69	19.9	<0.2	<10	110	0.29	0.30	0.19	0.29	17.15	7.3	14
DD022440		0.15	0.003	0.04	0.89	5.7	<0.2	<10	280	0.76	0.32	0.06	0.84	25.8	28.4	15

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		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD022431		2.63	57.9	4.41	1.42	0.06	0.13	0.43	0.042	0.11	7.2	6.7	0.09	415	1.35	0.02
DD022432		1.79	32.4	3.00	1.37	0.05	0.07	1.34	0.037	0.05	7.9	5.4	0.08	716	0.97	0.02
DD022433		1.73	27.1	3.43	3.08	<0.05	0.03	0.11	0.036	0.07	7.7	12.6	0.28	646	1.13	0.01
DD022434		2.71	31.1	2.82	4.25	<0.05	0.02	0.02	0.028	0.09	6.3	6.6	0.12	749	1.45	0.01
DD022435		7.21	41.0	3.45	1.60	<0.05	0.02	0.15	0.032	0.09	8.8	3.0	0.06	572	0.64	0.01
DD022436		24.9	21.9	3.47	2.71	0.06	0.03	0.05	0.033	0.16	9.7	7.2	0.09	750	1.15	0.01
DD022437		5.37	47.4	2.63	5.14	<0.05	0.03	0.04	0.031	0.07	6.7	13.8	0.18	739	0.80	0.01
DD022438		8.41	17.2	3.28	5.78	<0.05	<0.02	0.05	0.027	0.08	9.6	11.2	0.18	714	1.08	0.01
DD022439		6.80	15.9	2.49	4.07	<0.05	<0.02	0.03	0.022	0.09	8.4	7.5	0.15	281	1.03	0.01
DD022440		22.1	24.6	4.34	4.83	0.07	<0.02	0.03	0.039	0.13	10.1	3.8	0.07	2700	1.31	0.01

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 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD022431		0.16	52.7	530	36.2	5.1	<0.001	0.06	0.57	6.0	1.5	0.5	71.5	0.01	0.12	3.2
DD022432		0.24	28.9	880	19.4	5.2	<0.001	0.10	0.68	3.1	1.3	0.4	131.5	0.01	0.08	0.7
DD022433		1.85	29.9	530	22.2	8.2	<0.001	0.02	0.56	3.4	0.7	0.4	28.0	0.01	0.08	1.7
DD022434		0.51	16.7	400	18.9	14.5	<0.001	<0.01	0.54	2.6	0.6	0.5	10.6	<0.01	0.03	1.8
DD022435		0.18	25.5	240	24.2	10.6	<0.001	0.01	0.36	3.5	0.4	0.4	23.3	<0.01	0.02	4.4
DD022436		0.25	23.8	250	23.7	18.2	<0.001	<0.01	0.42	4.1	0.5	0.4	9.7	<0.01	0.06	5.1
DD022437		0.57	16.3	280	14.5	14.3	<0.001	0.01	0.30	3.5	0.5	0.6	17.8	<0.01	0.04	2.5
DD022438		0.93	14.2	350	19.8	27.9	<0.001	0.01	0.54	1.8	0.5	0.7	9.8	<0.01	0.03	0.6
DD022439		0.76	13.3	380	18.4	18.3	<0.001	0.02	0.71	1.5	0.5	0.5	12.5	<0.01	0.04	0.5
DD022440		0.39	24.8	690	19.2	30.8	<0.001	0.03	0.51	1.6	0.5	0.7	8.1	<0.01	0.05	0.3

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
DD022431		<0.005	0.42	3.88	21	0.05	21.8	102	3.6	
DD022432		<0.005	0.35	2.44	17	0.07	16.65	97	1.7	
DD022433		0.015	0.16	0.80	32	0.16	6.63	74	0.6	
DD022434		0.008	0.11	0.60	34	0.08	3.43	73	<0.5	
DD022435		<0.005	0.23	0.68	15	<0.05	4.79	64	0.6	
DD022436		0.005	0.13	0.63	20	<0.05	4.50	54	1.0	
DD022437		0.006	0.16	0.54	32	0.08	3.14	36	0.9	
DD022438		0.028	0.14	0.55	50	0.18	2.45	90	<0.5	
DD022439		0.025	0.13	0.44	36	0.19	2.37	82	<0.5	
DD022440		0.015	0.13	0.68	45	0.10	3.65	146	<0.5	

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150335**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12150336**

Project: ATAC- Regional Area D (San)  
 P.O. No.: Soil 10  
 This report is for 160 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.  
 ATTN: JORDAN MCDIVITT  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67526		0.36	0.002	0.14	1.26	21.2	<0.2	<10	220	0.74	0.20	0.21	0.74	36.1	17.5	23
ZZ67527		0.34	0.002	0.28	1.06	20.3	<0.2	<10	100	0.53	0.23	0.04	0.95	14.50	12.9	20
ZZ67528		0.32	0.004	0.39	1.12	16.5	<0.2	<10	190	0.92	0.21	0.17	1.54	27.7	19.6	19
ZZ67529		0.36	0.003	0.26	1.71	15.0	<0.2	<10	150	0.88	0.32	0.06	0.47	23.1	13.7	26
ZZ67530		0.40	0.002	0.15	1.61	15.0	<0.2	<10	160	0.79	0.29	0.06	0.20	19.15	10.9	25
ZZ67531		0.38	0.002	0.08	1.34	19.5	<0.2	<10	120	1.31	0.37	0.03	0.23	20.5	16.0	22
ZZ67532		0.33	0.001	0.04	2.06	15.1	<0.2	<10	140	0.69	0.31	0.08	0.17	21.0	12.3	34
ZZ67533		0.27	0.002	0.06	1.94	13.5	<0.2	<10	130	0.51	0.29	0.08	0.36	25.7	9.3	31
ZZ67534		0.33	0.003	0.05	2.01	18.6	<0.2	<10	190	0.81	0.28	0.04	0.35	23.9	12.7	29
ZZ67535		0.38	<0.001	0.08	1.75	17.0	<0.2	<10	260	0.57	0.27	0.10	0.13	16.25	9.2	25
ZZ67536		0.36	0.004	0.07	1.97	29.5	<0.2	<10	210	1.19	0.29	0.03	0.28	31.5	17.3	29
ZZ67537		0.29	0.002	0.04	2.03	26.0	<0.2	<10	120	0.57	0.29	0.04	0.32	22.8	13.3	31
ZZ67538		0.38	0.001	0.18	1.39	13.2	<0.2	<10	200	1.25	0.23	0.08	1.43	32.6	17.8	22
ZZ67539		0.32	0.002	0.43	1.48	12.6	<0.2	<10	610	0.85	0.26	0.28	1.90	20.3	7.9	25
ZZ67540		0.31	0.003	0.04	1.48	17.6	<0.2	<10	120	0.76	0.27	0.05	0.27	22.0	8.8	24
ZZ67541		0.34	0.002	0.05	1.94	29.9	<0.2	<10	160	0.74	0.27	0.03	0.24	25.7	15.5	29
ZZ67542		0.43	0.003	0.75	1.59	25.4	<0.2	<10	420	1.34	0.26	0.26	0.31	29.7	14.7	28
ZZ67543		0.37	0.003	0.25	1.60	19.3	<0.2	<10	490	1.04	0.26	0.31	0.36	16.10	11.5	25
ZZ67544		0.39	0.001	0.08	1.85	20.2	<0.2	<10	490	1.14	0.27	0.19	0.28	20.4	11.6	26
ZZ67545		0.40	0.003	0.04	1.99	31.5	<0.2	<10	300	1.16	0.28	0.03	0.38	27.2	18.1	29
ZZ67546		0.42	0.004	0.16	1.68	19.2	<0.2	<10	690	0.84	0.28	0.20	0.28	29.6	9.5	31
ZZ67547		0.35	0.003	0.06	1.77	14.7	<0.2	<10	210	0.63	0.26	0.09	0.16	28.4	8.1	29
ZZ67548		0.33	0.002	0.05	2.01	26.2	<0.2	<10	480	0.98	0.30	0.19	0.17	18.25	13.2	31
ZZ67549		0.29	0.004	0.17	1.42	10.1	<0.2	<10	370	0.77	0.25	0.28	0.24	35.4	10.7	30
ZZ67550		0.40	0.002	0.03	1.87	24.0	<0.2	<10	600	0.97	0.30	0.16	0.21	19.45	14.5	30
ZZ67551		0.36	0.001	0.06	1.69	20.7	<0.2	<10	900	1.07	0.33	0.28	0.14	15.20	13.4	29
ZZ67552		0.39	0.001	0.02	2.28	32.1	<0.2	<10	340	1.61	0.56	0.10	0.20	19.40	23.9	34
ZZ67553		0.35	0.002	0.05	2.07	100.5	<0.2	<10	900	0.92	0.27	0.24	0.39	24.9	16.7	32
ZZ67554		0.37	0.002	0.23	2.04	190.5	<0.2	<10	450	1.40	0.46	0.30	0.17	14.60	12.3	32
ZZ67555		0.40	0.002	0.08	1.52	9.5	<0.2	<10	300	1.60	0.47	0.18	0.23	24.5	16.6	23
ZZ67556		0.41	0.003	0.03	1.87	15.0	<0.2	<10	160	0.72	0.28	0.07	0.23	24.7	11.7	29
ZZ67557		0.27	0.002	0.17	1.18	33.0	<0.2	<10	250	0.61	0.28	1.16	0.34	18.10	8.5	21
ZZ67558		0.32	0.002	0.03	1.84	15.7	<0.2	<10	480	1.00	0.39	0.13	0.18	22.7	16.0	29
ZZ67559		0.31	0.002	0.07	1.29	16.1	<0.2	<10	440	0.84	0.31	0.17	0.13	21.1	11.2	21
ZZ67560		0.31	0.002	0.05	1.58	26.0	<0.2	<10	570	1.40	0.25	0.31	0.43	36.0	16.9	29
ZZ67561		0.26	0.003	0.13	1.38	16.8	<0.2	<10	400	0.70	0.24	0.38	0.88	25.9	7.0	27
ZZ67562		0.36	0.003	0.11	1.76	18.9	<0.2	<10	780	2.15	0.25	0.31	0.43	62.5	15.2	29
ZZ67563		0.31	0.002	0.09	0.99	14.5	<0.2	<10	440	0.88	0.36	0.34	0.55	16.95	9.7	18
ZZ67564		0.29	0.002	0.28	1.41	30.1	<0.2	<10	470	0.92	0.26	0.71	0.71	22.8	10.8	27
ZZ67565		0.34	0.004	0.32	0.92	42.7	<0.2	<10	420	1.09	0.23	0.38	1.11	26.4	12.7	21

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67526		0.95	44.4	3.37	3.91	0.12	0.03	0.12	0.029	0.06	16.1	20.0	0.50	694	2.46	0.01
ZZ67527		1.55	38.7	3.58	3.32	<0.05	0.04	0.09	0.034	0.07	5.1	14.9	0.27	645	8.58	<0.01
ZZ67528		1.24	50.8	3.46	3.26	0.06	0.02	0.12	0.034	0.07	10.4	21.2	0.45	695	5.71	0.01
ZZ67529		3.91	29.7	4.03	4.88	0.05	0.02	0.10	0.039	0.08	8.7	20.7	0.37	655	1.75	0.01
ZZ67530		3.06	26.3	3.47	4.94	<0.05	0.03	0.09	0.040	0.08	7.7	16.3	0.30	474	1.79	0.01
ZZ67531		2.97	34.0	3.95	3.66	<0.05	0.04	0.08	0.041	0.08	7.3	17.0	0.29	330	1.80	<0.01
ZZ67532		3.05	17.1	3.94	6.80	<0.05	<0.02	0.06	0.040	0.10	9.6	26.7	0.56	575	2.04	0.01
ZZ67533		2.63	16.4	3.21	6.44	<0.05	<0.02	0.08	0.031	0.08	11.3	17.1	0.42	463	1.72	0.01
ZZ67534		1.86	29.0	3.89	5.65	<0.05	0.03	0.08	0.041	0.06	10.6	23.1	0.48	515	2.02	0.01
ZZ67535		1.77	17.4	3.42	5.55	<0.05	0.04	0.04	0.031	0.05	7.1	24.6	0.46	403	1.31	0.01
ZZ67536		1.58	51.4	4.32	5.20	0.05	0.06	0.06	0.044	0.06	11.2	28.3	0.61	603	1.89	0.01
ZZ67537		1.85	23.5	4.89	6.23	<0.05	0.02	0.10	0.046	0.06	9.0	23.7	0.37	771	2.09	0.01
ZZ67538		1.87	41.1	4.70	2.97	0.07	0.04	0.11	0.046	0.07	11.9	27.1	0.50	586	10.90	0.01
ZZ67539		2.29	26.1	3.24	5.04	<0.05	0.03	0.10	0.032	0.09	9.1	19.9	0.46	330	2.69	0.02
ZZ67540		1.48	23.2	3.69	5.80	<0.05	<0.02	0.04	0.033	0.06	9.2	17.9	0.26	432	2.32	<0.01
ZZ67541		1.75	33.8	4.15	5.61	<0.05	0.03	0.07	0.043	0.06	10.6	28.8	0.56	661	2.22	0.01
ZZ67542		2.86	52.7	3.74	4.75	0.07	0.08	0.16	0.035	0.06	14.9	31.1	0.56	709	2.19	0.01
ZZ67543		3.00	34.4	3.48	4.24	0.05	0.12	0.08	0.029	0.09	8.2	26.4	0.54	421	2.68	0.01
ZZ67544		2.01	27.1	3.56	4.67	<0.05	0.06	0.06	0.038	0.06	7.8	23.8	0.52	510	1.44	0.01
ZZ67545		1.99	41.3	4.32	5.16	<0.05	0.05	0.18	0.042	0.06	10.4	29.6	0.63	949	1.70	0.01
ZZ67546		3.08	32.4	3.37	5.41	0.05	<0.02	0.11	0.034	0.07	13.5	23.2	0.53	422	1.46	0.02
ZZ67547		1.78	18.8	3.07	5.64	<0.05	<0.02	0.06	0.028	0.05	12.0	17.6	0.40	339	1.52	0.01
ZZ67548		2.15	27.6	4.43	5.67	0.05	0.03	0.05	0.038	0.07	8.0	32.7	0.65	622	1.61	0.02
ZZ67549		2.17	33.5	2.03	4.65	<0.05	0.04	0.06	0.025	0.06	15.4	22.5	0.56	162	1.25	0.02
ZZ67550		2.21	29.4	4.16	4.55	<0.05	0.03	1.94	0.037	0.06	8.0	22.2	0.52	1080	2.09	0.02
ZZ67551		2.21	26.9	4.03	5.18	<0.05	0.02	0.05	0.042	0.06	6.6	25.9	0.51	757	1.61	0.02
ZZ67552		2.52	43.8	4.92	7.64	<0.05	0.03	0.08	0.058	0.05	7.3	31.2	0.62	1110	0.93	0.01
ZZ67553		1.63	34.6	4.73	5.45	<0.05	0.05	0.05	0.046	0.07	8.9	33.1	0.68	726	2.87	0.02
ZZ67554		4.58	33.4	3.89	6.79	<0.05	0.07	0.08	0.043	0.07	6.6	30.7	0.54	681	0.86	0.01
ZZ67555		3.10	34.8	3.37	5.41	<0.05	0.04	0.09	0.040	0.07	8.6	33.4	0.45	1180	0.65	0.01
ZZ67556		1.95	20.6	3.71	5.32	<0.05	0.02	0.08	0.034	0.06	10.0	24.7	0.49	535	1.51	0.01
ZZ67557		1.93	21.7	2.75	4.40	<0.05	<0.02	1.54	0.024	0.08	8.0	11.2	0.77	458	1.44	0.01
ZZ67558		1.51	30.3	4.85	5.94	<0.05	0.03	0.08	0.040	0.06	9.3	30.0	0.48	701	2.35	0.01
ZZ67559		2.12	23.4	3.51	4.22	<0.05	0.04	0.14	0.037	0.06	8.9	15.7	0.29	436	1.23	0.01
ZZ67560		1.90	29.8	5.70	5.15	0.05	0.06	0.11	0.044	0.07	9.3	17.2	0.40	3010	2.80	0.02
ZZ67561		1.48	18.7	2.94	4.27	<0.05	0.05	0.36	0.029	0.05	12.7	16.4	0.48	226	1.05	0.01
ZZ67562		2.34	31.6	5.16	4.48	0.06	0.07	0.40	0.038	0.06	16.4	18.1	0.40	4050	2.31	0.02
ZZ67563		0.87	21.5	3.54	3.07	<0.05	0.07	0.27	0.045	0.07	8.5	12.4	0.26	323	1.33	0.01
ZZ67564		3.49	27.7	3.22	4.18	<0.05	0.09	1.76	0.030	0.08	12.3	17.2	0.46	505	1.74	0.01
ZZ67565		1.25	28.3	3.29	3.00	0.06	0.06	0.91	0.035	0.07	13.4	10.9	0.29	868	4.11	0.01

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67526		0.31	37.6	760	18.3	6.9	0.001	0.02	1.30	4.9	1.2	0.4	20.0	<0.01	0.07	3.2
ZZ67527		0.31	33.1	760	19.2	10.8	0.001	0.04	3.76	2.8	2.5	0.4	6.4	<0.01	0.02	0.9
ZZ67528		0.17	42.5	620	17.1	6.4	0.001	0.01	1.93	5.1	1.2	0.4	16.9	<0.01	0.03	3.9
ZZ67529		0.51	26.4	920	21.9	14.1	<0.001	0.04	0.75	2.2	0.9	0.6	11.5	<0.01	0.12	0.9
ZZ67530		0.49	21.9	960	20.6	16.9	0.001	0.05	0.62	2.4	0.8	0.5	10.9	<0.01	0.08	1.0
ZZ67531		0.38	31.4	420	27.9	14.2	<0.001	0.04	0.81	3.0	1.1	0.5	12.5	<0.01	0.25	1.7
ZZ67532		0.92	24.6	670	17.9	20.2	<0.001	0.05	0.88	2.0	0.8	0.7	12.0	<0.01	0.06	0.6
ZZ67533		0.51	19.4	890	15.7	18.7	<0.001	0.04	0.75	1.0	0.9	0.7	11.2	<0.01	0.03	0.3
ZZ67534		0.55	28.8	720	17.9	13.3	0.001	0.03	0.79	2.8	1.2	0.5	8.8	<0.01	0.04	1.3
ZZ67535		0.41	21.0	600	13.0	13.6	<0.001	0.03	0.40	2.4	1.1	0.5	12.2	<0.01	0.04	1.3
ZZ67536		0.29	35.1	370	22.5	12.5	<0.001	0.02	0.69	5.1	0.9	0.5	9.1	<0.01	0.07	3.1
ZZ67537		1.02	21.6	580	24.0	13.8	<0.001	0.04	0.80	2.5	0.8	0.6	7.8	<0.01	0.06	1.2
ZZ67538		0.12	48.7	620	17.1	10.7	<0.001	0.02	1.77	5.8	1.5	0.4	12.3	<0.01	0.01	2.4
ZZ67539		0.23	28.2	1360	11.1	22.7	<0.001	0.06	0.94	2.0	1.5	0.5	26.3	<0.01	0.02	0.4
ZZ67540		0.38	20.6	540	17.5	12.9	<0.001	0.04	0.80	0.6	0.9	0.6	8.4	<0.01	0.03	<0.2
ZZ67541		0.58	33.9	490	18.4	12.6	<0.001	0.03	0.77	3.6	1.2	0.5	8.9	<0.01	0.06	1.8
ZZ67542		0.38	35.1	670	20.7	11.8	<0.001	0.04	0.78	6.4	2.0	0.4	23.7	<0.01	0.03	2.2
ZZ67543		0.31	31.8	530	17.5	14.8	<0.001	0.03	0.81	4.5	0.7	0.4	24.5	<0.01	0.06	2.1
ZZ67544		0.32	26.5	720	17.2	13.8	0.001	0.03	0.55	3.0	0.6	0.4	17.5	<0.01	0.05	1.5
ZZ67545		0.37	36.6	390	23.2	12.0	<0.001	0.02	0.63	4.3	0.9	0.4	9.4	<0.01	0.04	2.7
ZZ67546		0.42	28.4	720	15.1	14.4	<0.001	0.02	0.62	3.2	0.7	0.6	22.9	<0.01	0.03	0.9
ZZ67547		0.40	20.2	620	13.6	9.8	<0.001	0.03	0.67	1.0	0.6	0.6	9.8	<0.01	0.03	0.2
ZZ67548		0.45	30.7	530	19.4	11.0	<0.001	0.03	0.57	2.6	0.8	0.5	17.8	<0.01	0.05	1.4
ZZ67549		0.96	25.7	460	14.9	12.2	0.001	0.07	0.60	4.9	0.7	0.6	20.3	<0.01	<0.01	4.1
ZZ67550		0.53	31.3	300	21.4	12.1	0.001	0.02	0.70	3.6	0.4	0.5	17.7	<0.01	0.03	2.9
ZZ67551		0.53	28.4	500	19.9	12.2	<0.001	0.03	0.55	2.5	0.3	0.5	14.4	<0.01	0.06	1.4
ZZ67552		0.25	35.7	310	36.6	11.5	<0.001	0.02	0.31	4.9	0.4	0.6	12.6	<0.01	0.03	3.7
ZZ67553		0.36	39.5	570	19.9	13.0	<0.001	0.03	0.78	3.9	1.1	0.5	12.5	<0.01	0.06	2.0
ZZ67554		0.27	25.2	540	25.7	18.1	0.001	0.03	0.29	4.3	0.4	0.6	14.0	<0.01	0.01	2.2
ZZ67555		0.18	31.6	280	27.1	10.8	<0.001	0.01	0.27	5.2	0.5	0.5	18.0	<0.01	0.01	3.9
ZZ67556		0.73	25.0	520	19.0	11.8	<0.001	0.03	0.66	2.7	0.7	0.5	9.1	<0.01	0.04	1.5
ZZ67557		0.23	19.2	1010	32.9	18.9	<0.001	0.06	1.26	0.9	0.4	0.6	17.0	<0.01	0.03	0.2
ZZ67558		0.36	30.2	290	22.9	13.3	<0.001	0.02	0.49	3.8	0.8	0.6	13.9	<0.01	0.01	2.7
ZZ67559		0.45	22.6	830	19.6	12.0	<0.001	0.05	0.55	2.8	0.5	0.5	16.1	<0.01	0.01	1.2
ZZ67560		0.42	31.9	650	29.0	12.8	<0.001	0.04	0.67	3.6	1.1	0.5	16.3	<0.01	0.05	2.2
ZZ67561		0.64	24.1	450	21.2	11.0	<0.001	0.03	0.67	3.1	0.4	0.4	18.5	<0.01	<0.01	1.8
ZZ67562		0.36	38.2	570	27.4	12.2	0.002	0.03	0.54	4.5	1.3	0.5	15.4	<0.01	0.01	3.0
ZZ67563		0.33	22.8	360	19.7	9.9	0.001	0.02	0.53	4.3	0.6	0.5	25.4	<0.01	0.04	2.8
ZZ67564		0.60	29.3	1140	27.7	20.2	0.001	0.07	1.03	3.9	0.7	0.5	24.8	0.01	0.05	1.7
ZZ67565		0.40	34.7	850	45.1	9.7	0.001	0.03	2.60	5.5	1.2	0.4	30.9	<0.01	0.06	3.2

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**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ67526		0.013	0.13	0.78	42	0.08	11.60	122	0.6	
ZZ67527		0.008	0.27	1.03	58	0.09	4.66	319	1.0	
ZZ67528		0.006	0.16	1.10	37	<0.05	11.50	203	1.6	
ZZ67529		0.015	0.16	0.96	46	0.16	5.46	113	0.5	
ZZ67530		0.009	0.20	0.86	46	0.12	4.72	82	0.9	
ZZ67531		0.007	0.17	0.95	33	0.08	5.90	101	1.0	
ZZ67532		0.028	0.24	0.76	59	0.28	3.19	121	<0.5	
ZZ67533		0.022	0.19	0.87	54	0.26	3.51	89	<0.5	
ZZ67534		0.012	0.18	0.76	54	0.14	5.30	96	1.0	
ZZ67535		0.007	0.15	0.97	47	0.12	3.28	93	1.1	
ZZ67536		<0.005	0.16	0.73	52	0.06	7.19	105	1.5	
ZZ67537		0.021	0.21	0.71	59	0.18	3.74	91	<0.5	
ZZ67538		<0.005	0.27	1.16	22	<0.05	13.25	112	1.1	
ZZ67539		0.012	0.24	1.08	47	0.09	7.46	215	0.5	
ZZ67540		0.014	0.15	0.80	52	0.15	3.98	87	<0.5	
ZZ67541		0.011	0.18	0.74	55	0.14	4.72	102	1.0	
ZZ67542		0.009	0.19	2.48	45	0.08	29.5	103	3.0	
ZZ67543		0.007	0.18	1.76	45	0.08	12.65	164	3.2	
ZZ67544		0.007	0.14	0.73	45	0.08	7.10	95	1.4	
ZZ67545		0.007	0.18	0.68	52	0.07	6.19	104	1.3	
ZZ67546		0.020	0.15	1.08	50	0.18	8.88	101	<0.5	
ZZ67547		0.022	0.17	0.85	51	0.24	4.73	71	<0.5	
ZZ67548		0.009	0.15	0.61	54	0.12	4.09	100	0.7	
ZZ67549		0.042	0.13	2.22	46	0.28	9.82	78	1.2	
ZZ67550		0.010	0.17	0.82	54	0.11	4.35	92	0.7	
ZZ67551		0.011	0.14	0.69	51	0.16	3.78	85	0.5	
ZZ67552		0.005	0.11	0.91	34	0.05	6.05	111	1.0	
ZZ67553		0.006	0.18	0.82	71	0.07	4.64	136	1.4	
ZZ67554		0.005	0.12	4.39	34	0.07	7.92	83	1.8	
ZZ67555		0.005	0.10	0.89	23	<0.05	10.30	97	1.1	
ZZ67556		0.020	0.16	0.90	48	0.19	4.10	83	0.6	
ZZ67557		0.009	0.35	0.90	35	0.14	4.51	196	<0.5	
ZZ67558		0.006	0.13	0.64	50	0.08	4.99	104	0.8	
ZZ67559		0.010	0.15	0.86	37	0.16	7.01	74	0.8	
ZZ67560		0.008	0.14	0.76	58	0.08	7.94	119	1.6	
ZZ67561		0.023	0.16	3.41	42	0.20	6.41	339	1.2	
ZZ67562		0.006	0.18	1.60	54	0.12	18.65	89	1.5	
ZZ67563		0.007	0.13	3.39	32	0.09	5.31	242	2.0	
ZZ67564		0.017	2.50	3.50	44	0.14	12.95	555	2.4	
ZZ67565		0.012	0.44	1.99	48	0.15	15.70	455	1.9	





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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67566		0.30	0.004	0.37	1.05	56.7	<0.2	<10	360	1.21	0.18	2.00	2.27	36.5	10.9	22
ZZ67567		0.26	0.004	0.22	1.58	32.8	<0.2	<10	330	0.84	0.23	0.76	0.50	29.8	10.9	28
ZZ67568		0.33	0.004	0.34	1.20	29.2	<0.2	<10	600	0.72	0.19	4.58	0.57	23.5	8.8	22
ZZ67569		0.28	0.003	0.22	1.42	53.2	<0.2	<10	550	0.74	0.21	2.00	0.46	26.4	8.8	25
ZZ67570		0.31	0.003	0.18	1.18	34.4	<0.2	<10	940	0.68	0.19	4.90	0.49	25.5	8.8	21
ZZ67571		0.29	0.002	0.11	0.57	106	<0.2	<10	520	0.36	0.10	11.60	0.56	16.40	5.0	9
ZZ67572		0.34	0.002	0.19	1.05	47.0	<0.2	<10	520	0.64	0.21	5.93	1.96	27.6	8.7	17
ZZ67573		0.23	0.002	0.17	1.02	58.2	<0.2	<10	1260	0.58	0.19	0.64	0.42	22.9	8.6	20
ZZ67574		0.34	0.002	0.11	1.17	29.3	<0.2	<10	480	0.70	0.29	0.24	0.55	19.80	11.6	24
ZZ67575		0.37	0.003	0.06	1.08	35.4	<0.2	<10	440	1.16	0.40	0.28	0.21	22.3	17.2	18
ZZ67576		0.40	0.002	0.10	0.58	38.5	<0.2	<10	330	1.54	0.47	0.23	0.19	15.05	26.3	10
ZZ67577		0.29	0.002	0.05	1.33	10.7	<0.2	<10	110	0.61	0.31	0.04	0.46	18.20	10.9	22
ZZ67578		0.32	<0.001	0.10	1.38	8.3	<0.2	<10	180	1.08	0.31	0.11	0.17	32.8	17.5	21
ZZ67579		0.29	0.002	0.12	1.47	7.9	<0.2	<10	190	1.26	0.31	0.30	0.17	32.4	18.4	20
ZZ67580		0.27	0.001	0.10	1.39	11.6	<0.2	<10	220	0.98	0.35	0.05	0.27	9.37	20.6	19
ZZ67581		0.33	0.002	0.07	1.16	7.8	<0.2	<10	150	0.86	0.32	0.03	0.34	9.30	15.5	19
ZZ67582		0.47	0.003	0.20	0.49	8.9	<0.2	<10	180	1.27	0.36	0.16	0.12	10.15	19.9	15
ZZ67583		0.29	0.001	0.11	1.09	12.3	<0.2	<10	230	1.53	0.33	0.29	0.23	12.20	11.4	25
ZZ67584		0.30	0.003	0.12	1.43	20.2	<0.2	<10	300	1.19	0.27	0.66	0.42	18.50	11.8	21
ZZ67585		0.38	0.005	0.24	1.44	20.6	<0.2	<10	370	3.22	0.34	0.29	0.18	24.3	12.5	27
ZZ67586		0.41	0.002	0.09	1.66	7.6	<0.2	<10	310	1.79	0.47	0.20	0.23	15.40	13.8	34
ZZ67587		0.34	0.002	0.15	2.00	18.0	<0.2	<10	150	0.76	0.34	0.04	0.18	16.90	13.0	30
ZZ67588		0.33	0.001	0.05	1.96	12.9	<0.2	<10	150	0.77	0.30	0.04	0.47	20.7	15.2	25
ZZ67589		0.28	0.002	0.03	1.34	11.8	<0.2	<10	70	0.55	0.41	0.03	0.23	12.60	10.0	29
ZZ67590		0.31	0.003	0.03	1.70	16.9	<0.2	<10	110	1.13	0.28	0.09	0.23	26.3	11.5	31
ZZ67591		0.30	0.003	0.06	1.73	17.2	<0.2	<10	140	1.29	0.27	0.08	0.15	27.9	10.7	30
ZZ67592		0.32	0.005	0.05	1.47	6.3	<0.2	<10	200	0.95	0.40	0.13	0.14	8.53	16.7	27
ZZ67593		0.34	0.002	0.02	1.78	16.4	<0.2	<10	180	1.26	0.86	0.03	0.10	11.55	23.2	25
ZZ67594		0.29	0.003	0.06	1.51	29.7	<0.2	<10	70	0.79	0.40	0.12	0.34	21.9	23.2	25
ZZ67595		0.28	0.001	0.29	1.15	18.5	<0.2	<10	90	0.33	0.32	0.03	0.16	23.4	6.6	20
ZZ67596		0.35	0.001	0.10	1.53	10.2	<0.2	<10	270	0.40	0.29	0.05	0.16	17.35	6.6	28
ZZ67597		0.39	0.004	0.21	0.79	8.8	<0.2	<10	530	1.08	0.27	0.45	0.53	15.95	7.5	14
ZZ67598		0.32	0.002	0.07	0.61	33.0	<0.2	<10	450	1.11	0.44	0.11	0.08	19.35	17.1	10
ZZ67599		0.38	0.003	0.14	0.55	195.0	<0.2	<10	90	0.36	0.09	9.35	1.88	11.30	4.5	11
ZZ67600		0.34	0.002	0.12	0.60	405	<0.2	<10	90	0.37	0.10	10.50	0.88	11.50	5.0	10
ZZ67601		0.30	0.003	0.13	0.97	154.5	<0.2	<10	180	0.56	0.19	5.92	0.37	13.75	8.6	15
ZZ67602		0.33	0.002	0.07	0.28	473	<0.2	<10	130	0.17	0.04	12.25	0.37	7.33	3.1	6
ZZ67603		0.33	0.003	0.12	0.41	407	<0.2	<10	190	0.30	0.10	13.15	0.82	15.60	7.7	10
ZZ67604		0.31	0.002	0.07	0.34	466	<0.2	<10	90	0.23	0.04	12.15	0.41	8.53	4.3	7
ZZ67605		0.33	0.003	0.14	0.38	358	<0.2	<10	130	0.30	0.05	15.55	0.40	13.50	3.6	5



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ67566		0.84	24.5	3.16	2.49	0.05	0.05	2.60	0.040	0.05	16.7	8.9	0.52	951	2.59	0.01
ZZ67567		1.03	20.6	3.24	4.82	0.06	0.06	0.68	0.028	0.05	17.7	13.4	0.55	961	1.24	0.02
ZZ67568		0.80	20.9	2.64	3.32	<0.05	0.06	0.69	0.025	0.05	13.3	10.4	2.75	811	3.57	0.02
ZZ67569		0.99	18.6	3.40	3.99	0.05	0.08	1.06	0.025	0.05	15.5	11.0	1.27	919	1.18	0.02
ZZ67570		0.74	16.1	2.96	3.31	0.05	0.06	0.72	0.024	0.04	14.4	9.3	2.87	1260	0.85	0.02
ZZ67571		0.89	11.6	2.35	1.45	0.05	0.03	9.67	0.011	0.03	9.0	3.8	6.96	1980	0.51	0.03
ZZ67572		1.27	17.5	3.73	3.06	0.06	0.05	5.88	0.026	0.04	14.2	6.8	3.52	2160	0.83	0.02
ZZ67573		2.28	13.9	2.99	3.18	<0.05	0.06	2.06	0.026	0.04	9.8	8.0	0.24	939	1.22	0.01
ZZ67574		1.84	21.3	3.76	5.16	<0.05	<0.02	0.55	0.036	0.06	8.3	10.6	0.23	806	6.07	0.01
ZZ67575		4.00	35.6	4.23	3.40	<0.05	0.03	0.83	0.034	0.08	9.7	9.3	0.28	623	1.21	0.01
ZZ67576		2.97	62.9	4.28	1.81	<0.05	0.03	0.46	0.038	0.09	7.6	6.7	0.10	552	2.75	0.01
ZZ67577		2.52	26.0	3.98	5.32	<0.05	<0.02	0.07	0.030	0.12	7.3	14.2	0.26	433	2.34	0.01
ZZ67578		2.56	30.1	3.57	4.51	<0.05	0.04	0.04	0.037	0.15	12.3	20.9	0.36	1360	1.06	0.01
ZZ67579		2.75	28.5	3.46	4.62	<0.05	0.09	0.06	0.034	0.15	13.0	22.3	0.44	1940	0.87	0.01
ZZ67580		3.77	29.7	3.76	4.67	<0.05	0.03	0.06	0.027	0.12	4.0	23.6	0.35	1420	1.43	0.01
ZZ67581		3.06	19.5	3.89	3.49	<0.05	0.02	0.07	0.026	0.08	4.2	16.9	0.24	715	1.11	0.01
ZZ67582		4.09	47.1	3.62	1.76	<0.05	0.02	0.10	0.035	0.08	4.6	8.2	0.13	653	0.99	0.01
ZZ67583		3.65	29.4	3.55	3.84	<0.05	0.06	0.07	0.029	0.08	6.4	15.2	0.35	810	1.72	0.01
ZZ67584		1.80	38.0	3.43	4.63	<0.05	0.06	0.08	0.035	0.08	6.8	13.6	0.48	780	3.07	0.01
ZZ67585		7.30	139.0	3.44	4.69	0.08	0.08	0.08	0.034	0.08	12.2	26.9	0.45	697	1.89	0.01
ZZ67586		5.30	26.6	4.28	6.91	<0.05	0.04	0.07	0.038	0.10	6.1	23.6	0.45	347	0.83	0.01
ZZ67587		4.20	26.9	3.55	6.73	<0.05	0.03	0.06	0.040	0.07	7.3	23.2	0.37	725	1.96	0.01
ZZ67588		3.18	18.0	2.84	5.39	<0.05	0.05	0.07	0.031	0.05	8.5	12.8	0.18	1340	2.09	0.01
ZZ67589		2.83	16.4	3.99	5.15	<0.05	<0.02	0.04	0.027	0.06	6.0	16.2	0.26	666	1.49	0.01
ZZ67590		3.29	28.9	3.49	5.31	<0.05	<0.02	0.05	0.035	0.06	11.8	21.7	0.41	674	1.68	0.01
ZZ67591		2.30	31.8	3.67	5.82	<0.05	<0.02	0.04	0.031	0.05	10.1	24.3	0.45	436	1.66	0.01
ZZ67592		4.64	26.1	3.45	5.38	<0.05	0.03	0.02	0.031	0.07	3.6	19.8	0.46	672	0.55	0.01
ZZ67593		4.57	47.2	3.23	6.40	<0.05	0.05	0.02	0.037	0.06	4.7	23.1	0.50	1010	0.72	0.01
ZZ67594		2.75	27.9	3.97	4.89	<0.05	0.02	0.04	0.032	0.07	10.1	24.3	0.39	955	1.59	0.01
ZZ67595		2.80	17.7	3.20	7.00	<0.05	0.02	0.04	0.022	0.06	11.6	8.3	0.16	304	1.82	0.01
ZZ67596		2.40	11.6	3.52	5.90	<0.05	<0.02	0.04	0.029	0.06	8.9	10.6	0.24	424	1.81	0.01
ZZ67597		1.77	22.9	3.20	2.44	<0.05	0.08	0.21	0.038	0.06	7.7	10.2	0.18	355	0.71	0.01
ZZ67598		2.16	53.5	3.38	1.76	<0.05	<0.02	0.23	0.037	0.06	9.9	6.5	0.16	303	0.85	0.01
ZZ67599		0.47	11.4	2.42	1.98	<0.05	0.04	9.10	0.017	0.03	5.6	5.0	5.84	1700	0.47	0.02
ZZ67600		0.36	10.2	2.22	1.77	<0.05	0.03	4.83	0.016	0.03	5.4	6.0	6.70	1400	0.53	0.02
ZZ67601		0.61	21.9	2.45	2.72	<0.05	0.04	1.45	0.022	0.04	6.6	11.1	3.70	1020	0.80	0.02
ZZ67602		0.46	5.3	1.11	0.79	<0.05	0.03	5.81	0.009	0.02	3.2	2.2	7.80	664	0.33	0.02
ZZ67603		0.41	15.9	3.09	1.18	<0.05	0.07	7.36	0.014	0.02	8.6	3.6	8.25	1600	0.52	0.02
ZZ67604		0.25	5.6	2.68	0.87	<0.05	0.06	2.85	0.011	0.02	4.1	2.1	7.41	2600	0.28	0.03
ZZ67605		0.22	8.7	2.24	0.98	<0.05	0.05	1.10	0.009	0.02	7.4	1.8	9.64	2290	0.30	0.03

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**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67566		0.37	30.5	810	156.5	9.1	0.002	0.04	8.14	5.4	1.2	0.4	48.0	<0.01	0.04	1.8
ZZ67567		0.77	29.3	1140	46.3	9.2	<0.001	0.06	1.42	3.6	0.7	0.5	20.8	<0.01	0.03	1.6
ZZ67568		0.48	27.0	1040	67.9	7.4	0.001	0.04	1.77	3.4	1.0	0.4	36.8	<0.01	0.05	1.5
ZZ67569		0.58	24.9	1000	97.3	8.6	0.001	0.04	2.45	3.8	0.7	0.5	26.8	<0.01	0.05	1.8
ZZ67570		0.52	21.4	980	107.5	5.9	0.001	0.06	1.80	2.9	1.0	0.4	27.4	<0.01	0.04	1.2
ZZ67571		0.15	13.0	1100	103.0	4.0	<0.001	0.07	2.23	1.4	0.6	0.2	60.4	<0.01	0.04	0.5
ZZ67572		0.28	21.3	1230	196.0	6.3	<0.001	0.06	2.33	3.3	1.0	0.4	39.1	<0.01	0.08	1.3
ZZ67573		0.37	21.5	1150	248	7.7	0.001	0.06	3.41	2.7	0.5	0.5	18.4	<0.01	0.07	1.3
ZZ67574		0.41	26.6	840	33.9	14.4	0.001	0.05	1.40	1.4	0.8	0.6	18.8	<0.01	0.07	0.3
ZZ67575		0.38	32.1	350	30.0	11.8	<0.001	0.02	0.70	4.2	0.4	0.6	25.8	<0.01	0.05	2.8
ZZ67576		0.20	47.8	290	35.2	7.4	0.001	0.02	1.38	7.0	0.8	0.6	26.3	<0.01	0.09	3.3
ZZ67577		0.59	22.5	680	18.7	15.4	0.001	0.04	0.87	2.0	0.6	0.6	6.7	<0.01	0.13	0.8
ZZ67578		0.33	26.9	600	23.8	16.1	0.001	0.02	0.53	3.9	0.3	0.5	9.6	<0.01	0.03	2.7
ZZ67579		0.30	27.9	630	23.9	15.1	<0.001	0.03	0.50	5.6	0.7	0.5	12.7	<0.01	0.04	3.8
ZZ67580		0.39	22.9	670	32.8	15.4	<0.001	0.03	0.54	2.1	<0.2	0.5	7.2	<0.01	0.08	1.6
ZZ67581		0.53	22.1	570	23.8	11.1	<0.001	0.02	0.52	1.9	0.3	0.5	11.4	<0.01	0.03	1.4
ZZ67582		0.27	29.6	180	20.4	10.4	0.001	0.01	0.40	5.4	0.5	0.5	26.6	<0.01	0.05	2.6
ZZ67583		0.56	23.4	620	20.0	14.1	0.001	0.03	0.58	4.8	0.8	0.7	19.0	<0.01	0.05	2.4
ZZ67584		0.42	31.6	1120	21.4	15.7	0.001	0.05	0.85	3.9	1.4	0.6	20.9	<0.01	0.08	1.4
ZZ67585		0.51	28.3	660	23.2	16.7	0.002	0.03	0.73	7.4	1.5	0.6	23.8	<0.01	0.06	2.9
ZZ67586		0.64	30.1	380	16.4	20.1	<0.001	0.02	0.35	5.2	0.3	1.0	20.3	<0.01	0.02	2.8
ZZ67587		0.72	22.1	900	16.4	21.1	<0.001	0.04	0.53	2.7	0.6	0.7	8.8	<0.01	0.06	1.0
ZZ67588		1.14	18.3	650	18.9	14.1	0.001	0.02	0.50	3.6	0.4	0.7	7.3	0.02	0.13	2.8
ZZ67589		0.68	16.8	350	24.6	13.6	0.001	0.02	0.57	1.9	0.5	0.9	6.2	<0.01	0.05	0.8
ZZ67590		0.48	24.8	710	21.2	10.2	<0.001	0.02	0.87	1.6	0.7	0.6	10.3	<0.01	0.05	0.4
ZZ67591		0.74	24.7	650	20.2	11.6	<0.001	0.02	0.81	1.8	0.6	0.6	10.1	<0.01	0.06	0.5
ZZ67592		0.42	20.9	380	14.5	11.1	<0.001	0.02	0.16	3.6	<0.2	0.7	21.5	<0.01	0.04	3.1
ZZ67593		0.26	27.5	410	33.2	8.8	0.001	0.02	0.28	3.8	0.4	0.6	8.5	<0.01	0.04	3.2
ZZ67594		0.70	29.2	1060	32.4	12.5	0.001	0.03	0.89	2.2	0.4	0.5	14.4	<0.01	0.21	1.3
ZZ67595		1.08	13.9	370	15.2	16.4	<0.001	0.01	0.69	2.4	0.3	0.8	7.2	<0.01	0.08	3.1
ZZ67596		0.37	14.4	610	15.2	13.2	0.001	0.03	0.53	0.7	0.3	0.8	10.2	<0.01	0.06	<0.2
ZZ67597		0.28	16.8	810	15.4	11.6	<0.001	0.06	0.56	5.5	0.7	0.4	24.3	<0.01	0.04	2.0
ZZ67598		0.11	36.0	260	17.7	5.6	0.001	0.02	3.98	5.2	0.2	0.4	26.7	<0.01	0.02	3.7
ZZ67599		0.27	11.3	610	212	3.1	0.001	0.04	13.20	2.0	1.0	0.4	38.7	<0.01	0.04	0.6
ZZ67600		0.27	11.0	600	160.0	3.2	0.002	0.04	13.35	2.0	0.6	0.2	49.5	<0.01	0.02	0.6
ZZ67601		0.28	18.2	680	27.6	4.6	0.002	0.05	3.61	2.6	0.8	0.3	33.0	<0.01	0.04	0.7
ZZ67602		0.18	7.1	460	71.8	1.9	0.002	0.03	9.08	1.4	0.5	0.2	69.0	<0.01	0.01	0.6
ZZ67603		0.22	17.0	780	188.5	2.1	0.001	0.03	14.70	2.8	1.0	0.3	125.0	<0.01	0.03	0.9
ZZ67604		0.15	7.9	780	61.4	2.2	0.002	0.06	9.37	1.2	0.7	0.2	34.1	<0.01	<0.01	0.5
ZZ67605		0.14	6.8	890	73.9	2.2	0.002	0.06	4.70	1.3	0.9	0.2	64.1	<0.01	0.02	0.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ67566		0.008	0.23	2.24	42	0.17	20.9	461	1.7	
ZZ67567		0.026	0.19	1.37	49	0.25	14.45	194	2.0	
ZZ67568		0.019	0.19	1.38	51	0.30	14.95	170	1.6	
ZZ67569		0.024	0.22	1.28	44	0.23	14.25	199	2.0	
ZZ67570		0.020	0.15	1.23	35	0.23	12.50	184	1.3	
ZZ67571		0.008	0.20	1.93	16	0.08	11.15	289	0.9	
ZZ67572		0.010	0.22	1.94	30	0.11	18.30	1030	1.2	
ZZ67573		0.009	0.29	1.56	34	0.11	10.70	211	1.7	
ZZ67574		0.015	0.45	1.06	76	0.21	5.11	256	<0.5	
ZZ67575		0.008	0.23	1.01	29	0.14	6.10	130	0.7	
ZZ67576		<0.005	0.24	0.97	19	<0.05	11.55	57	1.1	
ZZ67577		0.018	0.10	0.61	40	0.12	3.66	104	<0.5	
ZZ67578		0.010	0.10	0.48	27	0.06	6.26	101	1.0	
ZZ67579		0.009	0.11	0.59	25	0.06	10.75	92	2.4	
ZZ67580		0.011	0.10	0.40	28	0.07	2.59	110	0.6	
ZZ67581		0.013	0.07	0.49	27	0.10	2.39	109	0.5	
ZZ67582		0.008	0.07	0.96	21	0.08	6.17	85	0.6	
ZZ67583		0.015	0.08	1.76	35	0.15	9.03	87	1.3	
ZZ67584		0.007	0.19	1.15	52	0.11	8.53	126	1.5	
ZZ67585		0.013	0.12	2.38	40	0.18	25.9	90	2.1	
ZZ67586		0.012	0.10	1.04	39	0.11	8.56	99	0.9	
ZZ67587		0.012	0.21	1.04	54	0.16	4.59	91	0.6	
ZZ67588		0.020	0.15	1.25	52	0.21	6.25	81	1.3	
ZZ67589		0.023	0.11	0.77	45	0.25	3.38	56	<0.5	
ZZ67590		0.027	0.11	0.95	49	0.28	7.56	99	<0.5	
ZZ67591		0.025	0.14	1.23	50	0.26	6.43	85	<0.5	
ZZ67592		0.009	0.05	1.23	25	0.09	4.05	64	0.7	
ZZ67593		0.005	0.06	1.23	21	<0.05	5.70	84	1.8	
ZZ67594		0.024	0.12	0.78	39	0.21	5.07	106	0.5	
ZZ67595		0.023	0.14	0.49	66	0.17	2.58	60	0.8	
ZZ67596		0.018	0.17	0.69	55	0.22	2.57	56	<0.5	
ZZ67597		0.006	0.10	1.59	22	0.09	12.20	92	2.0	
ZZ67598		<0.005	0.08	0.72	18	<0.05	8.21	99	0.8	
ZZ67599		0.011	0.29	1.16	19	0.10	7.40	749	1.3	
ZZ67600		0.011	0.38	1.12	18	0.10	7.03	474	0.9	
ZZ67601		0.010	0.25	1.02	27	0.08	8.73	212	1.2	
ZZ67602		0.006	0.77	1.20	9	0.07	4.62	439	1.1	
ZZ67603		0.007	2.23	2.15	14	0.09	13.00	508	1.8	
ZZ67604		0.005	0.42	1.15	11	<0.05	7.41	250	1.9	
ZZ67605		0.005	0.56	0.97	11	<0.05	13.20	293	1.3	



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67606		0.34	0.003	0.35	0.49	55.3	<0.2	<10	1180	1.60	0.34	0.61	0.05	37.1	9.7	10
ZZ67607		0.31	0.004	0.28	0.81	86.5	<0.2	<10	130	0.61	0.19	8.24	0.38	16.40	6.3	13
ZZ67608		0.38	0.002	0.11	1.01	44.7	<0.2	<10	90	0.41	0.33	0.07	0.12	20.2	5.5	17
ZZ67609		0.30	0.003	0.05	1.22	93.7	<0.2	<10	180	0.75	0.34	0.11	0.23	13.70	13.0	19
ZZ67610		0.28	0.003	0.05	1.38	35.1	<0.2	<10	140	0.50	0.30	0.07	0.17	23.0	8.8	24
ZZ67611		0.30	0.003	0.09	1.15	177.5	<0.2	<10	590	1.22	0.38	0.26	2.32	19.65	30.5	18
ZZ67612		0.34	0.003	0.15	1.72	17.4	<0.2	<10	770	1.23	0.42	0.33	0.24	16.75	14.5	24
ZZ67613		0.29	0.002	0.04	0.58	14.0	<0.2	<10	230	0.57	0.31	0.35	0.17	12.15	8.1	10
ZZ67614		0.32	0.002	0.06	1.26	18.7	<0.2	<10	400	1.04	0.35	0.60	0.22	27.1	11.8	18
ZZ67615		0.24	0.003	0.14	1.07	38.6	<0.2	<10	500	0.85	0.31	3.04	0.41	29.2	13.9	18
ZZ67616		0.38	0.003	0.12	0.69	33	<0.2	<10	380	0.47	0.15	10.35	0.32	22.0	7.6	13
ZZ67617		0.38	0.003	0.09	0.44	26	<0.2	<10	110	0.38	0.08	13.95	0.25	17.55	5.0	8
ZZ67618		0.34	0.003	0.10	0.65	43	<0.2	<10	120	0.48	0.11	13.30	0.46	19.70	5.4	10
ZZ67619		0.30	0.003	0.11	0.50	103	<0.2	<10	300	0.54	0.07	12.30	3.66	11.85	3.4	8
ZZ67620		0.32	0.004	0.13	0.79	59.1	<0.2	<10	160	0.56	0.13	7.22	0.53	18.05	5.8	13
ZZ67621		0.32	0.002	0.08	0.71	26.2	<0.2	<10	150	0.80	0.29	0.27	0.13	12.75	6.4	10
ZZ67622		0.42	0.003	0.20	0.85	22.3	<0.2	<10	230	1.10	0.31	0.23	0.39	26.2	13.6	15
ZZ67623		0.33	0.003	0.09	0.43	25.4	<0.2	<10	200	1.43	0.50	0.10	0.04	12.70	26.3	6
ZZ67624		0.35	0.009	0.12	0.82	32.5	<0.2	<10	730	1.25	0.76	0.04	0.07	15.85	35.0	10
ZZ67625		0.33	0.003	0.02	0.24	2.9	<0.2	<10	100	1.65	0.54	0.05	0.03	12.25	18.2	5
ZZ67626		0.31	0.004	0.02	0.36	1.8	<0.2	<10	60	0.74	0.34	0.03	0.03	9.09	13.4	12
ZZ67627		0.47	0.003	0.04	0.24	9.1	<0.2	<10	110	1.11	0.46	0.09	0.02	17.90	19.4	5
ZZ67628		0.42	0.002	0.07	0.30	24.3	<0.2	<10	100	1.14	0.43	0.05	0.04	16.40	19.8	5
ZZ67629		0.25	0.003	0.22	1.41	251	<0.2	<10	220	1.01	0.23	5.12	0.67	23.3	10.9	22
ZZ67630		0.27	0.003	0.27	1.65	393	<0.2	<10	250	1.06	0.25	4.21	0.61	33.3	12.5	25
ZZ67631		0.31	0.004	0.24	1.37	333	<0.2	<10	250	0.98	0.20	6.84	0.57	21.6	10.8	20
ZZ67632		0.25	0.004	0.16	1.61	118.5	<0.2	<10	230	1.09	0.28	2.30	0.62	39.1	13.5	28
ZZ67633		0.31	0.002	0.04	1.13	22.3	<0.2	<10	190	0.79	0.33	0.10	0.25	13.75	14.5	21
ZZ67634		0.29	0.002	0.03	0.77	44.2	<0.2	<10	180	0.44	0.37	0.05	0.21	12.90	12.1	15
ZZ67635		0.29	0.004	0.08	1.13	67.3	<0.2	<10	150	0.53	0.23	4.43	0.29	24.4	9.1	20
ZZ67636		0.27	0.003	0.05	1.46	27.3	<0.2	<10	260	0.68	0.35	0.19	0.40	18.35	13.6	25
ZZ67637		0.35	0.002	0.02	1.80	27.6	<0.2	<10	160	0.85	0.32	0.06	0.52	22.6	12.4	28
ZZ67638		0.34	0.002	0.03	1.79	25.1	<0.2	<10	180	0.73	0.31	0.11	0.24	18.10	11.7	28
ZZ67639		0.42	0.002	0.23	1.44	28.2	<0.2	<10	480	0.96	0.30	0.74	0.62	24.5	14.0	24
ZZ67640		0.32	0.005	0.20	1.12	45.6	<0.2	<10	210	0.91	0.33	1.90	0.61	26.1	14.3	21
ZZ67641		0.31	0.002	0.03	1.05	13.9	<0.2	<10	130	0.32	0.27	0.03	0.26	20.4	5.2	17
ZZ67642		0.30	0.003	0.17	1.48	20.6	<0.2	<10	370	0.76	0.29	0.80	0.60	22.4	11.6	26
ZZ67643		0.32	0.004	0.20	1.56	31.6	<0.2	<10	230	0.92	0.31	1.53	0.46	22.7	13.3	24
ZZ67644		0.30	0.003	0.13	0.59	107	<0.2	<10	130	0.51	0.05	16.05	0.57	17.85	3.3	8
ZZ67645		0.22	0.003	0.26	0.97	100	<0.2	<10	210	0.73	0.11	12.70	0.66	25.6	5.3	13





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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67606		1.17	25.4	3.85	1.50	0.06	0.04	3.14	0.036	0.03	11.0	1.5	0.10	615	0.73	0.03
ZZ67607		1.48	13.7	3.13	2.42	<0.05	0.04	2.58	0.025	0.04	8.6	5.9	5.16	1500	0.62	0.02
ZZ67608		4.04	13.8	2.53	4.49	<0.05	<0.02	0.28	0.024	0.04	8.7	9.6	0.20	231	1.00	0.01
ZZ67609		1.98	19.5	4.02	3.81	<0.05	0.02	1.73	0.033	0.05	5.1	13.8	0.24	932	1.04	0.01
ZZ67610		1.83	15.8	3.38	6.16	<0.05	<0.02	0.90	0.034	0.05	10.2	14.7	0.28	442	1.44	0.01
ZZ67611		2.50	28.1	6.64	3.21	0.06	0.09	1.91	0.041	0.07	8.0	9.4	0.20	2130	1.25	0.02
ZZ67612		2.16	27.7	3.92	5.86	<0.05	0.05	0.22	0.038	0.06	9.1	31.1	0.39	706	2.61	0.02
ZZ67613		1.31	22.1	2.15	2.61	<0.05	0.04	0.12	0.017	0.11	5.3	5.8	0.13	359	0.81	0.01
ZZ67614		3.52	23.0	3.37	4.04	0.05	0.08	0.24	0.030	0.15	11.8	11.4	0.34	817	0.84	0.02
ZZ67615		1.50	26.3	3.51	3.33	0.08	0.07	0.68	0.029	0.06	15.0	9.3	1.68	1740	0.77	0.03
ZZ67616		0.67	15.7	2.26	2.06	0.05	0.04	0.55	0.016	0.04	11.6	6.3	6.44	1430	0.51	0.04
ZZ67617		0.38	12.3	2.09	1.28	0.05	0.05	0.57	0.012	0.03	9.9	3.9	8.68	1680	0.39	0.03
ZZ67618		0.39	13.0	2.36	1.83	0.05	0.04	0.42	0.017	0.03	12.1	4.6	8.36	1780	0.47	0.03
ZZ67619		0.50	8.5	2.49	2.07	<0.05	0.04	41.9	0.059	0.02	5.9	3.8	7.59	2070	0.45	0.03
ZZ67620		0.64	14.0	3.36	2.29	<0.05	0.05	1.25	0.021	0.03	9.6	5.9	3.97	1900	0.60	0.02
ZZ67621		2.40	14.1	2.87	2.29	<0.05	0.04	0.94	0.024	0.05	5.0	5.0	0.12	448	0.72	0.01
ZZ67622		1.34	29.4	3.22	2.48	0.06	0.02	1.01	0.028	0.05	11.6	8.6	0.20	736	1.41	0.01
ZZ67623		1.45	50.1	5.28	1.51	<0.05	0.05	0.30	0.037	0.10	5.8	3.2	0.06	1020	1.49	0.01
ZZ67624		1.87	82.5	5.66	2.39	0.05	0.04	0.19	0.041	0.16	6.5	4.4	0.06	970	3.02	0.02
ZZ67625		1.76	121.0	4.37	1.06	<0.05	0.12	0.07	0.020	0.16	5.2	1.5	0.05	266	0.65	0.01
ZZ67626		1.91	20.5	3.21	1.53	<0.05	<0.02	0.08	0.015	0.15	3.8	1.2	0.03	257	0.41	0.01
ZZ67627		1.74	43.3	3.18	0.97	<0.05	0.09	0.18	0.033	0.10	7.6	1.5	0.05	615	0.35	0.01
ZZ67628		3.41	34.7	2.11	1.21	<0.05	<0.02	0.08	0.022	0.12	6.6	1.3	0.03	1070	0.43	0.01
ZZ67629		0.78	23.8	4.52	4.08	0.05	0.09	1.83	0.031	0.08	12.3	12.7	3.09	2240	1.08	0.02
ZZ67630		0.71	26.0	6.06	4.57	0.09	0.09	2.64	0.030	0.08	19.8	15.3	2.45	4030	1.02	0.02
ZZ67631		0.62	21.4	4.60	3.73	0.05	0.08	2.72	0.026	0.08	10.5	13.0	4.03	2970	1.14	0.03
ZZ67632		0.97	22.0	6.30	4.16	0.09	0.10	1.91	0.045	0.06	25.3	13.5	1.36	4460	0.87	0.02
ZZ67633		9.18	21.0	4.26	4.51	<0.05	<0.02	0.11	0.038	0.09	6.3	15.4	0.30	918	1.34	0.01
ZZ67634		3.39	15.8	3.37	3.80	<0.05	<0.02	0.14	0.031	0.08	5.9	8.8	0.15	489	1.12	0.01
ZZ67635		1.13	15.8	2.59	3.77	0.06	0.02	0.87	0.026	0.04	11.8	10.7	2.65	737	0.98	0.02
ZZ67636		1.02	33.8	4.48	5.05	<0.05	0.03	0.09	0.038	0.08	7.3	24.0	0.44	705	2.16	0.01
ZZ67637		1.03	37.3	4.39	4.63	<0.05	0.03	0.12	0.043	0.07	8.1	27.4	0.49	699	2.01	0.01
ZZ67638		1.57	33.8	4.43	5.12	<0.05	0.03	0.10	0.039	0.08	7.6	29.8	0.54	854	2.02	0.01
ZZ67639		2.97	48.7	3.77	4.27	0.05	0.07	0.37	0.031	0.09	10.7	22.4	0.55	634	1.54	0.02
ZZ67640		1.62	36.5	3.85	3.12	0.06	0.08	1.13	0.037	0.08	10.6	15.9	1.05	673	2.12	0.02
ZZ67641		1.07	15.3	2.74	5.26	<0.05	<0.02	0.04	0.022	0.06	8.6	8.7	0.17	277	1.61	0.01
ZZ67642		0.77	30.1	3.58	4.31	<0.05	0.07	0.16	0.031	0.08	9.5	17.7	0.51	818	1.32	0.02
ZZ67643		0.80	48.6	4.04	4.38	<0.05	0.10	0.42	0.031	0.11	10.2	23.6	1.27	697	1.69	0.02
ZZ67644		0.32	8.3	3.21	1.02	<0.05	0.04	2.01	0.011	0.02	9.8	3.8	9.70	2740	0.37	0.03
ZZ67645		0.57	13.7	4.28	2.23	0.05	0.05	2.82	0.016	0.04	16.3	6.4	7.76	4310	0.67	0.03

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67606		0.09	28.0	380	27.0	4.2	0.003	0.02	0.36	6.6	2.2	0.5	35.7	<0.01	0.03	5.0
ZZ67607		0.39	16.3	770	131.5	6.7	0.002	0.04	4.77	3.0	1.1	0.4	44.4	<0.01	0.02	1.2
ZZ67608		0.50	13.3	660	27.0	10.7	0.002	0.02	0.89	1.2	0.2	0.6	9.3	<0.01	0.04	0.5
ZZ67609		0.46	19.2	590	63.1	8.7	0.002	0.02	3.01	2.2	0.9	0.5	11.6	<0.01	0.04	1.3
ZZ67610		0.63	18.0	600	37.5	10.8	0.002	0.03	1.52	1.3	0.6	0.7	11.2	<0.01	0.04	0.4
ZZ67611		0.32	55.4	1060	27.8	13.1	0.002	0.04	2.18	6.9	1.8	0.5	22.1	<0.01	0.04	2.1
ZZ67612		0.38	25.4	440	26.6	11.4	0.002	0.01	0.56	4.0	1.0	0.6	13.3	<0.01	0.04	2.7
ZZ67613		0.38	11.3	500	17.4	13.2	0.002	0.03	0.38	1.9	<0.2	0.4	22.2	<0.01	0.03	1.3
ZZ67614		0.47	20.7	900	44.6	16.4	0.002	0.05	1.01	4.2	0.5	0.5	14.0	<0.01	0.03	1.9
ZZ67615		0.44	25.4	1070	112.0	6.1	0.002	0.06	2.28	4.1	1.4	0.5	25.4	<0.01	0.03	1.4
ZZ67616		0.35	15.8	850	90.0	3.5	0.002	0.04	2.89	2.6	1.0	0.3	50.2	<0.01	0.07	1.0
ZZ67617		0.24	11.1	1010	51.5	2.6	0.002	0.04	2.06	2.1	1.3	0.2	65.6	<0.01	0.03	1.0
ZZ67618		0.22	11.1	990	23.6	3.6	0.002	0.07	1.46	1.6	1.2	0.2	73.8	<0.01	0.05	0.4
ZZ67619		0.21	9.3	610	82.0	2.7	0.002	0.04	7.17	2.2	0.7	0.4	180.5	<0.01	0.05	0.5
ZZ67620		0.29	13.5	1190	55.1	4.3	0.001	0.10	2.67	2.2	1.6	0.3	40.6	<0.01	0.02	0.7
ZZ67621		0.32	15.1	650	28.0	8.6	0.002	0.02	0.57	2.3	0.4	0.5	14.0	<0.01	0.04	1.2
ZZ67622		0.35	33.1	520	38.3	6.6	0.002	0.01	0.76	5.2	1.2	0.5	19.2	<0.01	0.02	3.6
ZZ67623		0.14	35.4	190	33.6	6.6	0.002	0.03	0.62	5.0	0.8	0.4	31.1	<0.01	0.04	4.3
ZZ67624		0.20	32.0	320	38.6	14.3	0.002	0.07	1.60	4.9	1.4	0.5	28.4	<0.01	0.06	4.7
ZZ67625		0.12	30.4	180	19.2	9.7	0.002	<0.01	0.22	4.2	0.7	0.3	22.1	<0.01	0.04	4.8
ZZ67626		0.34	18.0	290	11.0	13.2	0.001	0.01	0.20	2.3	0.5	0.5	14.9	<0.01	0.02	2.3
ZZ67627		0.12	28.0	210	21.7	6.6	0.002	0.01	0.15	5.5	0.6	0.4	26.7	<0.01	0.02	6.6
ZZ67628		0.15	13.7	310	26.9	9.8	0.002	0.01	0.25	3.3	0.7	0.4	23.0	<0.01	0.02	2.0
ZZ67629		0.48	23.1	770	40.4	8.6	0.002	0.04	3.57	5.1	1.3	0.4	36.7	<0.01	0.05	2.1
ZZ67630		0.40	26.3	1160	53.1	9.1	0.001	0.06	4.90	5.3	1.8	0.5	34.9	<0.01	0.04	1.6
ZZ67631		0.32	22.8	1170	86.2	7.7	0.002	0.06	2.97	4.1	1.1	0.4	39.5	<0.01	0.03	1.3
ZZ67632		0.52	26.3	620	58.0	8.0	0.002	0.03	3.27	9.6	1.6	0.5	23.0	<0.01	0.04	3.6
ZZ67633		0.69	20.6	410	15.4	13.4	0.002	0.01	0.56	3.2	0.7	0.5	8.0	<0.01	0.07	2.0
ZZ67634		0.67	14.9	270	14.2	15.4	0.002	0.01	0.48	2.9	0.3	0.6	7.9	<0.01	0.09	1.6
ZZ67635		0.66	20.4	490	146.0	7.6	0.001	0.02	3.62	3.6	0.9	0.5	33.2	<0.01	0.01	1.8
ZZ67636		0.43	30.0	480	26.4	13.1	0.001	0.01	0.74	3.4	1.2	0.5	14.4	<0.01	0.07	2.2
ZZ67637		0.34	34.9	280	24.5	10.6	<0.001	0.01	0.67	3.6	1.0	0.4	8.1	<0.01	0.06	2.9
ZZ67638		0.34	31.5	290	23.4	10.3	0.001	0.01	0.65	3.7	0.7	0.5	11.5	<0.01	0.06	2.8
ZZ67639		0.36	39.4	650	28.1	8.6	0.001	0.02	1.18	5.5	1.1	0.4	32.6	<0.01	0.06	2.2
ZZ67640		0.32	39.4	600	147.5	7.2	<0.001	0.02	3.22	6.6	1.6	0.4	38.0	<0.01	0.06	4.8
ZZ67641		0.59	12.6	210	14.2	14.6	<0.001	<0.01	0.46	1.8	0.6	0.6	6.2	<0.01	0.02	1.8
ZZ67642		0.54	27.8	670	20.6	8.3	0.001	0.03	0.65	3.9	1.1	0.4	32.9	<0.01	0.05	1.7
ZZ67643		0.24	41.4	550	26.5	6.6	0.001	0.01	1.05	6.0	1.0	0.4	26.0	<0.01	0.07	4.3
ZZ67644		0.12	8.9	850	46.1	2.5	0.001	0.04	4.58	2.8	0.5	0.2	70.9	<0.01	0.05	0.6
ZZ67645		0.17	16.4	1200	49.8	6.0	<0.001	0.06	3.73	3.5	1.2	0.3	47.1	<0.01	0.05	0.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ67606		<0.005	0.90	0.69	16	<0.05	23.2	78	1.3	
ZZ67607		0.012	0.38	1.71	22	0.10	10.60	215	1.1	
ZZ67608		0.017	0.28	0.55	36	0.19	3.07	71	<0.5	
ZZ67609		0.009	0.43	0.65	29	0.11	3.50	234	0.5	
ZZ67610		0.021	0.41	0.87	47	0.23	4.37	104	<0.5	
ZZ67611		0.006	24.1	2.27	32	0.07	19.15	769	2.4	
ZZ67612		<0.005	0.22	0.99	39	0.10	11.35	105	1.7	
ZZ67613		0.008	0.10	0.55	19	0.06	3.45	54	1.0	
ZZ67614		0.011	0.19	1.10	29	0.13	8.09	94	1.8	
ZZ67615		0.012	0.44	1.25	30	0.13	15.55	122	1.9	
ZZ67616		0.014	0.20	1.22	22	0.12	11.10	85	1.1	
ZZ67617		0.009	0.20	1.94	14	0.13	11.65	65	1.3	
ZZ67618		0.011	0.22	1.29	18	0.07	11.25	113	1.1	
ZZ67619		0.008	0.25	1.26	16	0.09	8.77	925	1.4	
ZZ67620		0.010	0.23	1.18	27	0.14	12.90	180	1.5	
ZZ67621		0.006	0.19	0.57	19	0.08	4.78	82	1.0	
ZZ67622		0.009	0.18	0.81	25	0.10	14.30	108	0.6	
ZZ67623		<0.005	0.08	0.78	11	<0.05	8.54	57	2.5	
ZZ67624		<0.005	0.13	1.01	19	<0.05	10.40	58	1.9	
ZZ67625		<0.005	0.06	1.08	11	<0.05	6.47	53	5.9	
ZZ67626		0.015	0.08	0.71	18	0.06	4.26	41	<0.5	
ZZ67627		<0.005	0.08	0.74	9	<0.05	8.44	48	4.5	
ZZ67628		<0.005	0.19	1.08	9	<0.05	6.48	36	<0.5	
ZZ67629		0.010	0.59	1.44	41	0.13	15.65	266	2.4	
ZZ67630		0.010	0.69	1.48	44	0.10	25.6	350	2.4	
ZZ67631		0.006	0.62	1.47	38	0.11	18.30	342	2.4	
ZZ67632		0.010	0.45	1.16	46	0.18	29.7	75	2.3	
ZZ67633		0.015	0.13	0.49	39	0.14	2.88	79	<0.5	
ZZ67634		0.013	0.12	0.41	36	0.12	2.43	50	<0.5	
ZZ67635		0.016	0.33	0.82	37	0.20	8.26	89	0.7	
ZZ67636		0.005	0.19	0.58	52	0.10	4.48	120	0.9	
ZZ67637		<0.005	0.21	0.65	58	0.06	3.99	140	1.2	
ZZ67638		<0.005	0.18	0.57	55	0.07	3.76	102	1.3	
ZZ67639		0.008	0.14	1.28	42	0.07	13.60	181	1.7	
ZZ67640		0.007	0.26	1.74	39	0.07	15.10	231	3.1	
ZZ67641		0.010	0.13	0.40	58	0.12	2.33	71	<0.5	
ZZ67642		0.015	0.14	1.03	49	0.13	8.92	108	1.3	
ZZ67643		0.005	0.19	0.74	44	0.05	12.80	210	3.6	
ZZ67644		<0.005	0.63	2.44	14	0.06	16.40	40	1.0	
ZZ67645		0.005	0.66	3.96	24	0.08	24.3	91	1.2	



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**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67646		0.34	0.002	0.04	2.16	39.1	<0.2	<10	190	1.09	0.35	0.08	0.22	21.4	13.1	31
ZZ67647		0.32	0.002	0.06	0.36	177	<0.2	<10	90	0.38	0.04	17.00	0.24	4.71	1.7	5
ZZ67648		0.27	0.003	0.13	1.45	84.2	<0.2	<10	180	1.07	0.30	2.11	0.35	18.85	11.2	24
ZZ67649		0.33	0.003	0.09	1.29	21.4	<0.2	<10	210	0.69	0.32	0.48	0.36	18.20	10.8	22
ZZ67650		0.33	0.003	0.14	1.35	17.6	<0.2	<10	180	0.52	0.29	0.74	2.38	23.9	8.4	26
ZZ67651		0.37	0.003	0.13	0.87	13.4	<0.2	<10	280	1.25	0.43	0.69	0.20	14.90	9.8	15
ZZ67652		0.25	0.004	0.09	0.80	67.4	<0.2	<10	260	0.55	0.31	0.75	0.20	13.80	8.3	17
ZZ67653		0.39	0.005	0.12	1.01	24.2	<0.2	<10	120	0.82	0.34	0.51	0.47	16.30	11.7	18
ZZ67654		0.31	0.007	0.07	0.40	50.3	<0.2	<10	70	1.09	0.36	6.84	0.43	18.70	11.5	10
ZZ67655		0.27	0.002	0.29	1.33	20.1	<0.2	<10	140	0.40	0.27	0.18	0.45	16.95	6.3	20
ZZ67656		0.28	0.004	0.10	0.85	47.7	<0.2	<10	110	0.37	0.27	0.25	1.72	13.55	6.7	18
ZZ67657		0.34	0.007	0.50	0.55	41.3	<0.2	<10	220	1.34	0.41	1.46	22.4	12.95	9.7	11
ZZ67658		0.28	0.005	0.19	1.00	24.9	<0.2	<10	180	1.02	0.39	0.77	0.33	20.2	11.2	17
ZZ67659		0.29	0.006	0.18	0.52	34.8	<0.2	<10	450	1.06	0.39	1.89	0.17	18.40	11.0	10
ZZ67660		0.26	0.006	0.37	0.66	20.9	<0.2	<10	70	1.29	0.37	5.49	0.13	28.1	12.9	11
ZZ67661		0.24	0.004	0.20	0.71	40.0	<0.2	<10	80	1.36	0.38	2.60	0.26	26.4	14.2	11
ZZ67662		0.27	0.006	0.15	0.39	40.8	<0.2	<10	70	1.31	0.44	3.93	0.15	20.0	15.4	8
ZZ67663		0.27	0.005	0.16	0.49	15.7	<0.2	<10	120	1.18	0.34	3.38	0.16	19.60	11.0	8
ZZ67664		0.24	0.003	0.14	1.31	34.8	<0.2	<10	400	1.00	0.33	0.78	0.40	18.25	10.0	20
ZZ67665		0.35	0.002	0.02	1.21	20.5	<0.2	<10	130	0.40	0.35	0.05	0.16	17.35	7.2	19
ZZ67666		0.32	0.003	0.06	1.08	23.0	<0.2	<10	280	0.94	0.37	0.20	0.19	18.05	11.5	19
ZZ67667		0.32	0.003	0.05	1.04	29.7	<0.2	<10	180	0.59	0.40	0.12	0.16	16.25	10.7	19
ZZ67668		0.31	0.004	0.22	1.39	24.8	<0.2	<10	380	1.19	0.38	0.59	0.57	20.7	17.4	23
ZZ67669		0.28	0.010	0.21	0.68	20.6	<0.2	<10	570	1.23	0.35	2.22	0.35	15.50	11.0	9
ZZ67670		0.31	0.006	0.18	0.62	18.2	<0.2	<10	100	1.39	0.38	2.37	0.21	41.8	12.5	10
ZZ67671		0.30	0.002	0.10	1.59	17.4	<0.2	<10	110	0.55	0.34	0.05	0.18	20.1	7.6	25
ZZ67672		0.35	0.002	0.07	0.47	20.0	<0.2	<10	110	0.98	0.31	0.08	0.27	12.00	19.4	8
ZZ67673		0.30	0.005	0.06	0.65	15.6	<0.2	<10	70	0.43	0.48	0.03	0.43	12.65	8.0	11
ZZ67674		0.29	0.004	0.06	1.40	23.2	<0.2	<10	150	1.07	0.37	0.04	1.31	22.9	11.0	21
ZZ67675		0.25	0.002	0.10	1.07	20.1	<0.2	<10	120	1.21	0.23	1.00	0.21	19.15	6.7	20
ZZ67676		0.31	0.007	0.61	0.78	46.8	<0.2	<10	90	0.50	0.30	0.28	3.70	13.80	9.0	15
ZZ67677		0.35	0.004	0.30	1.32	13.6	<0.2	<10	240	0.68	0.25	0.41	0.33	24.2	7.9	23
ZZ67678		0.25	0.010	2.08	0.85	172.5	<0.2	<10	90	0.59	0.25	0.08	6.76	7.46	9.1	14
ZZ67679		0.35	0.003	0.14	1.05	28.3	<0.2	<10	220	0.90	0.35	0.75	0.23	22.3	11.7	18
ZZ67680		0.31	0.001	0.09	0.78	9.0	<0.2	<10	110	0.54	0.46	0.10	0.25	17.10	9.3	12
ZZ67681		0.30	0.001	0.04	0.84	12.8	<0.2	<10	70	0.91	0.52	0.02	0.13	16.25	11.2	12
ZZ67682		0.37	0.002	0.30	0.94	21.9	<0.2	<10	150	0.91	0.31	1.05	0.30	14.65	10.3	16
ZZ67683		0.33	0.003	0.25	1.22	20.9	<0.2	<10	320	0.75	0.30	0.60	0.50	20.6	11.0	22
ZZ67684		0.30	0.002	0.24	1.52	26.7	<0.2	<10	270	0.98	0.29	1.21	0.49	20.0	13.4	23
ZZ67685		0.25	0.001	0.15	1.72	91.0	<0.2	<10	300	1.06	0.19	4.09	0.73	16.80	8.7	20



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**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67646		1.32	34.0	5.00	5.47	<0.05	0.05	0.37	0.044	0.07	8.7	29.6	0.52	706	1.90	0.01
ZZ67647		0.27	4.2	1.37	0.85	<0.05	0.02	1.77	0.007	0.02	2.5	2.8	10.50	1570	0.16	0.03
ZZ67648		1.00	29.7	4.24	3.92	<0.05	0.12	1.36	0.031	0.10	8.9	16.4	1.31	1240	1.23	0.02
ZZ67649		1.72	35.8	4.02	4.53	<0.05	0.03	0.18	0.032	0.08	8.3	23.7	0.37	561	1.61	0.02
ZZ67650		10.50	19.9	2.97	4.49	<0.05	0.02	0.43	0.024	0.07	10.3	20.0	0.50	538	1.21	0.02
ZZ67651		9.53	37.8	3.11	2.56	<0.05	0.06	0.18	0.031	0.10	6.9	9.5	0.27	409	0.91	0.02
ZZ67652		3.45	17.4	2.29	3.02	<0.05	0.04	0.28	0.024	0.07	6.2	8.9	0.21	286	0.89	0.01
ZZ67653		6.02	32.7	4.56	2.85	<0.05	0.06	0.34	0.036	0.06	5.4	12.9	0.30	525	2.02	0.01
ZZ67654		1.83	34.5	2.55	1.02	<0.06	0.09	0.67	0.036	0.09	6.4	2.4	2.29	310	0.78	0.02
ZZ67655		3.15	10.7	2.82	5.25	<0.05	<0.02	0.17	0.025	0.05	7.6	17.2	0.27	431	1.53	0.01
ZZ67656		2.99	18.7	2.80	3.75	<0.05	<0.02	0.80	0.024	0.07	6.2	10.3	0.23	379	1.87	0.01
ZZ67657		23.7	109.0	2.89	1.91	0.05	0.05	4.08	0.036	0.07	6.5	5.0	0.30	346	0.87	0.02
ZZ67658		10.60	28.8	3.61	3.04	0.05	0.04	0.20	0.036	0.08	10.9	13.5	0.22	655	1.02	0.01
ZZ67659		11.15	33.2	3.48	1.32	<0.05	0.05	0.69	0.040	0.06	7.2	4.6	0.09	533	0.60	0.02
ZZ67660		2.06	40.0	3.88	1.74	0.06	0.08	1.00	0.053	0.06	11.8	5.0	0.13	400	1.20	0.01
ZZ67661		1.41	37.9	4.19	1.88	0.07	0.07	0.36	0.052	0.07	8.7	6.6	0.09	435	1.06	0.01
ZZ67662		2.37	46.3	3.59	0.97	0.05	0.04	0.53	0.062	0.06	7.0	3.0	0.05	331	0.77	0.01
ZZ67663		2.08	33.3	3.33	1.16	0.05	0.03	0.44	0.040	0.05	7.1	3.8	0.09	378	0.65	0.01
ZZ67664		1.26	27.9	3.57	3.62	<0.05	0.05	0.35	0.034	0.06	8.3	17.6	0.45	508	1.10	0.02
ZZ67665		1.42	17.0	3.58	5.25	<0.05	0.02	0.08	0.025	0.06	8.2	12.1	0.23	335	1.43	0.01
ZZ67666		6.61	27.3	3.96	3.49	<0.05	0.03	0.13	0.033	0.08	7.4	14.2	0.25	634	1.11	0.02
ZZ67667		7.31	31.6	3.92	4.05	<0.05	<0.02	0.15	0.035	0.09	7.2	11.4	0.25	601	1.41	0.01
ZZ67668		2.02	61.5	4.21	4.10	0.05	0.07	0.32	0.044	0.11	8.6	19.0	0.56	791	1.88	0.02
ZZ67669		2.87	34.7	3.70	1.66	0.05	0.05	0.83	0.040	0.07	6.2	6.8	0.11	831	0.68	0.02
ZZ67670		1.85	33.7	3.87	1.39	0.09	0.07	1.07	0.056	0.06	14.6	4.5	0.07	497	0.84	0.01
ZZ67671		4.16	17.7	3.82	6.05	<0.05	<0.02	0.06	0.035	0.06	10.1	23.3	0.29	332	1.41	0.01
ZZ67672		12.70	41.5	3.90	2.05	<0.05	0.02	0.02	0.042	0.08	5.6	4.8	0.07	866	0.54	<0.01
ZZ67673		6.04	28.6	3.00	2.77	<0.05	<0.02	0.10	0.032	0.08	5.9	6.3	0.09	336	1.20	<0.01
ZZ67674		1.45	35.1	3.78	4.03	<0.05	0.05	0.30	0.040	0.06	10.8	17.9	0.26	506	1.66	<0.01
ZZ67675		0.93	19.7	2.88	3.01	<0.05	0.11	0.29	0.039	0.07	9.5	8.2	0.21	266	0.97	0.01
ZZ67676		1.54	23.3	2.88	3.40	<0.05	0.03	9.79	0.036	0.07	6.2	9.3	0.18	533	1.40	0.01
ZZ67677		1.23	16.1	2.95	4.13	<0.05	0.06	0.23	0.028	0.06	12.2	27.5	0.46	318	0.85	0.01
ZZ67678		1.81	26.0	4.43	3.81	<0.05	0.03	114.0	0.064	0.05	3.1	11.6	0.06	739	4.11	0.01
ZZ67679		1.39	26.9	3.00	3.12	<0.05	0.07	0.57	0.038	0.07	10.7	12.0	0.24	519	1.10	0.01
ZZ67680		3.76	29.6	3.07	3.56	<0.05	0.02	0.11	0.036	0.06	8.6	7.3	0.12	458	0.94	0.01
ZZ67681		2.64	42.7	3.78	2.68	<0.05	0.02	0.06	0.041	0.07	7.5	10.7	0.16	396	0.86	0.01
ZZ67682		27.3	39.5	3.35	2.78	<0.05	0.06	0.43	0.034	0.08	7.3	17.3	0.40	342	1.67	0.01
ZZ67683		1.00	35.3	3.44	3.87	<0.05	0.07	0.28	0.034	0.07	10.1	23.0	0.44	591	1.91	0.01
ZZ67684		0.91	41.6	3.66	4.48	<0.05	0.10	0.34	0.036	0.09	10.1	24.1	0.79	770	1.69	0.01
ZZ67685		0.85	15.6	3.58	4.60	<0.05	0.09	0.73	0.030	0.07	8.2	15.1	2.37	2250	0.99	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67646		0.51	36.3	200	27.9	12.4	0.001	0.01	1.02	4.5	1.2	0.5	8.6	<0.01	0.03	4.2
ZZ67647		0.09	4.2	410	11.1	2.8	<0.001	0.03	2.71	1.3	0.7	<0.2	78.2	<0.01	0.03	0.2
ZZ67648		0.29	31.7	430	65.2	8.4	<0.001	0.02	3.31	5.4	1.1	0.5	15.3	<0.01	0.04	3.7
ZZ67649		0.41	26.9	360	21.7	14.7	0.001	0.01	0.78	3.7	0.8	0.4	31.6	<0.01	0.06	2.4
ZZ67650		0.76	24.8	510	28.4	21.9	0.001	0.03	1.19	2.4	0.8	0.5	39.2	<0.01	0.03	1.0
ZZ67651		0.30	21.9	430	18.8	17.7	<0.001	0.03	0.57	3.9	1.1	0.3	31.8	<0.01	0.03	2.2
ZZ67652		0.42	22.3	490	26.0	11.7	0.001	0.03	1.31	3.0	0.6	0.4	25.3	<0.01	0.03	1.6
ZZ67653		0.24	28.6	350	28.5	11.9	0.001	0.02	1.54	4.2	1.0	0.4	21.3	<0.01	0.05	2.1
ZZ67654		0.06	28.1	1360	42.3	4.9	<0.001	0.05	2.82	4.9	0.7	0.4	130.0	<0.01	0.03	4.1
ZZ67655		0.71	14.1	240	260	11.9	0.001	0.01	1.06	2.5	0.2	0.6	12.3	<0.01	0.03	2.0
ZZ67656		0.57	17.9	320	187.5	18.2	<0.001	0.01	2.80	2.0	0.6	0.5	14.7	<0.01	0.02	0.9
ZZ67657		0.18	54.0	770	1160	13.7	0.001	0.11	42.9	4.9	1.9	0.3	60.2	<0.01	0.06	1.0
ZZ67658		0.45	26.1	660	34.9	18.9	0.001	0.04	0.88	4.2	0.7	0.4	37.5	<0.01	0.06	1.2
ZZ67659		0.14	30.8	570	33.9	12.3	<0.001	0.07	0.49	5.0	0.9	0.3	82.6	<0.01	0.07	1.5
ZZ67660		0.16	39.2	640	32.3	5.4	0.001	0.03	0.42	7.0	1.6	0.5	259	<0.01	0.09	3.5
ZZ67661		0.18	38.2	670	33.9	7.1	0.001	0.04	0.58	6.5	1.4	0.4	109.0	<0.01	0.12	2.5
ZZ67662		0.05	40.6	700	28.2	4.5	<0.001	0.03	0.47	7.4	1.1	0.4	158.5	<0.01	0.07	3.3
ZZ67663		0.12	31.1	550	23.4	5.5	0.001	0.06	0.43	4.9	1.5	0.3	146.0	<0.01	0.06	1.5
ZZ67664		0.37	28.1	450	29.4	9.3	<0.001	0.02	1.36	4.1	0.9	0.4	15.2	<0.01	0.06	2.7
ZZ67665		0.85	16.6	170	21.2	15.2	0.001	<0.01	0.61	2.5	0.7	0.6	9.0	<0.01	0.02	2.7
ZZ67666		0.43	24.7	340	25.7	12.5	<0.001	0.02	0.68	3.3	0.7	0.5	17.9	<0.01	0.02	2.6
ZZ67667		0.47	23.0	270	27.2	13.8	<0.001	0.01	0.96	2.6	0.5	0.5	14.4	<0.01	0.04	1.8
ZZ67668		0.20	42.7	620	29.0	8.6	0.001	0.01	0.92	6.8	0.9	0.4	30.2	<0.01	0.09	4.9
ZZ67669		0.18	33.5	490	49.0	5.6	0.001	0.07	0.56	4.9	1.2	0.4	91.3	<0.01	0.08	1.3
ZZ67670		0.11	32.4	750	25.7	5.2	0.001	0.04	0.39	9.1	1.2	0.4	102.0	<0.01	0.15	3.9
ZZ67671		1.13	18.4	380	21.5	18.2	<0.001	0.01	1.00	2.8	0.3	0.7	9.0	<0.01	0.06	1.6
ZZ67672		0.26	22.2	430	18.5	13.7	<0.001	0.02	0.31	4.6	0.2	0.4	13.5	<0.01	0.07	1.3
ZZ67673		0.19	16.2	320	22.0	15.2	<0.001	0.01	6.45	2.8	0.2	0.4	12.2	<0.01	0.04	2.3
ZZ67674		0.26	26.1	200	43.3	12.7	<0.001	0.01	1.22	5.9	1.1	0.5	8.6	<0.01	0.06	4.5
ZZ67675		0.34	19.2	360	22.1	7.5	<0.001	0.03	0.94	5.3	1.3	0.5	45.4	<0.01	0.04	2.9
ZZ67676		0.33	16.5	330	1570	13.4	<0.001	0.03	7.51	3.8	0.7	0.5	15.7	<0.01	0.05	2.2
ZZ67677		0.72	24.7	570	18.0	10.6	<0.001	0.02	0.73	4.0	0.6	0.4	24.5	<0.01	0.04	2.9
ZZ67678		0.19	21.3	480	676	12.0	<0.001	0.02	28.1	4.0	0.9	1.0	7.7	<0.01	0.07	1.3
ZZ67679		0.47	26.1	470	21.4	7.0	<0.001	0.02	0.95	6.1	0.7	0.5	33.8	0.01	0.05	3.1
ZZ67680		0.59	17.0	330	16.4	12.5	<0.001	0.01	0.50	3.2	0.3	0.6	14.3	<0.01	0.04	1.8
ZZ67681		0.21	19.5	280	22.3	9.5	<0.001	0.01	0.47	4.1	0.2	0.4	13.7	<0.01	0.04	2.9
ZZ67682		0.22	36.4	610	22.3	14.0	0.001	0.03	0.74	5.6	1.3	0.4	55.6	<0.01	0.06	2.3
ZZ67683		0.41	30.0	750	19.8	7.6	<0.001	0.02	0.92	4.7	1.0	0.4	36.7	<0.01	0.07	2.8
ZZ67684		0.36	33.9	540	20.8	8.5	<0.001	0.03	0.93	5.8	0.9	0.4	24.3	<0.01	0.07	2.9
ZZ67685		0.37	17.9	870	25.7	10.8	<0.001	0.05	3.05	5.3	0.7	0.5	24.5	0.01	0.07	0.9

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 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ67646		0.006	0.27	0.67	56	0.11	5.30	124	1.9	
ZZ67647		<0.005	0.35	1.25	11	<0.05	6.99	69	0.7	
ZZ67648		<0.005	0.42	1.10	39	0.09	14.00	163	3.2	
ZZ67649		0.008	0.15	1.75	44	0.10	6.21	119	1.0	
ZZ67650		0.032	0.18	3.69	47	0.21	4.77	2010	0.7	
ZZ67651		0.006	0.09	2.09	23	0.05	9.64	83	1.6	
ZZ67652		0.008	0.18	3.12	29	0.10	4.79	91	0.9	
ZZ67653		0.005	0.19	2.83	36	0.06	6.14	483	1.4	
ZZ67654		<0.005	0.14	2.40	19	<0.05	11.85	108	2.6	
ZZ67655		0.010	0.16	1.00	52	0.15	2.44	537	0.5	
ZZ67656		0.016	0.18	1.24	41	0.20	2.39	582	<0.5	
ZZ67657		<0.005	0.43	2.60	17	0.13	11.70	>10000	1.3	1.155
ZZ67658		0.010	0.14	1.64	30	0.08	15.85	114	0.8	
ZZ67659		<0.005	0.26	1.34	17	<0.05	16.60	106	1.5	
ZZ67660		<0.005	0.19	2.44	20	0.09	26.7	81	2.3	
ZZ67661		<0.005	0.30	1.95	20	0.05	21.3	89	2.0	
ZZ67662		<0.005	0.23	1.27	15	<0.05	20.8	103	1.8	
ZZ67663		<0.005	0.16	1.70	15	<0.05	18.40	78	1.3	
ZZ67664		0.005	0.12	0.99	31	0.08	9.24	120	1.3	
ZZ67665		0.013	0.11	0.45	45	0.13	2.69	66	0.6	
ZZ67666		0.006	0.21	0.74	30	0.08	6.06	93	0.9	
ZZ67667		0.011	0.15	0.54	37	0.09	3.24	88	<0.5	
ZZ67668		0.007	0.19	0.70	39	0.07	11.50	152	3.7	
ZZ67669		<0.005	0.17	1.81	15	<0.05	18.50	116	1.4	
ZZ67670		<0.005	0.11	2.14	20	<0.05	32.6	80	1.9	
ZZ67671		0.022	0.13	0.55	54	0.22	2.78	94	<0.5	
ZZ67672		0.005	0.07	0.42	19	0.05	4.37	95	<0.5	
ZZ67673		<0.005	0.10	0.53	28	0.05	2.12	148	<0.5	
ZZ67674		<0.005	0.15	0.99	39	0.09	10.70	797	1.0	
ZZ67675		<0.005	0.11	5.96	34	0.09	11.75	77	2.8	
ZZ67676		0.005	0.12	6.20	29	0.11	4.31	1280	0.7	
ZZ67677		0.024	0.10	1.28	37	0.16	7.39	170	1.5	
ZZ67678		<0.005	0.28	1.49	32	0.07	3.45	1600	0.8	
ZZ67679		0.009	0.16	1.16	31	0.14	12.95	100	1.4	
ZZ67680		0.010	0.08	0.64	30	0.14	5.69	65	<0.5	
ZZ67681		<0.005	0.09	0.63	20	0.05	4.39	70	<0.5	
ZZ67682		<0.005	0.24	1.36	29	0.07	12.65	140	1.3	
ZZ67683		0.011	0.13	1.33	40	0.11	9.36	123	1.4	
ZZ67684		0.006	0.16	0.93	41	0.09	11.35	108	2.4	
ZZ67685		0.006	0.20	1.06	45	0.10	13.00	138	1.8	



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150336**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12150337**

Project: ATAC- Regional Area D (San)  
 P.O. No.: Soil 10  
 This report is for 144 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69321		0.16	0.002	0.13	1.38	16.8	<0.2	<10	160	0.60	0.24	0.11	0.33	19.85	11.7	21
ZZ69322		0.28	0.002	0.11	1.22	17.4	<0.2	<10	340	0.86	0.23	0.28	0.17	42.1	17.0	19
ZZ69323		0.20	0.003	0.05	1.70	26.6	<0.2	<10	150	0.94	0.28	0.08	0.32	24.0	18.3	27
ZZ69324		0.27	0.002	0.07	1.58	10.0	<0.2	<10	120	0.40	0.29	0.06	0.22	24.8	9.0	24
ZZ69325		0.24	0.003	0.07	1.76	18.5	<0.2	<10	170	0.71	0.26	0.06	0.45	42.9	19.6	28
ZZ69326		0.28	0.002	0.10	0.83	15.5	<0.2	<10	140	1.05	0.22	0.11	0.41	52.8	19.6	18
ZZ69327		0.22	0.004	0.14	0.80	23.0	<0.2	<10	110	0.83	0.25	0.04	1.90	21.1	12.4	13
ZZ69328		0.33	0.003	0.07	1.69	20.9	<0.2	<10	220	0.79	0.25	0.08	0.44	24.5	11.7	26
ZZ69329		0.22	0.018	0.57	1.07	16.6	<0.2	<10	180	0.71	0.29	0.08	0.80	18.70	10.1	18
ZZ69330		0.27	0.003	0.16	1.44	23.4	<0.2	<10	150	0.91	0.29	0.03	0.65	22.7	16.7	22
ZZ69331		0.28	0.004	0.08	1.36	18.7	<0.2	<10	140	0.90	0.31	0.07	0.51	24.6	13.0	23
ZZ69332		0.27	0.003	0.10	1.40	11.0	<0.2	<10	100	0.36	0.29	0.06	0.17	21.8	5.4	24
ZZ69333		0.29	0.003	0.04	1.49	19.7	<0.2	<10	190	0.69	0.30	0.04	0.20	21.1	12.3	23
ZZ69334		0.21	0.002	0.05	1.54	23.1	<0.2	<10	120	0.47	0.31	0.04	0.27	21.4	12.2	27
ZZ69335		0.24	0.002	0.08	1.53	12.9	<0.2	<10	200	0.83	0.27	0.11	0.11	24.4	6.9	26
ZZ69336		0.30	0.002	0.05	1.54	21.6	<0.2	<10	140	0.69	0.32	0.03	0.19	19.45	12.3	25
ZZ69337		0.23	0.003	0.06	1.68	15.1	<0.2	<10	150	0.64	0.30	0.08	0.15	25.2	7.7	27
ZZ69338		0.27	0.002	0.06	1.57	13.6	<0.2	<10	180	0.70	0.31	0.08	0.11	22.8	6.9	24
ZZ69339		0.24	0.002	0.07	1.82	19.2	<0.2	<10	140	0.60	0.29	0.06	0.34	26.6	14.9	28
ZZ69340		0.17	0.002	0.09	1.22	16.5	<0.2	<10	230	0.93	0.34	0.29	0.17	11.60	14.5	21
ZZ69341		0.27	0.005	0.13	1.70	14.2	<0.2	<10	530	1.66	0.48	0.36	0.35	30.2	13.5	28
ZZ69342		0.34	0.005	0.30	1.64	21.8	<0.2	<10	440	1.37	0.42	0.29	0.23	26.8	18.4	28
ZZ69343		0.26	0.002	0.03	1.56	17.8	<0.2	<10	450	0.71	0.28	0.18	0.16	27.9	17.6	27
ZZ69344		0.22	0.003	0.04	2.24	40.0	<0.2	<10	1350	1.32	0.54	0.37	0.12	23.7	19.8	33
ZZ69345		0.28	0.007	0.05	1.48	213	<0.2	<10	600	1.37	0.21	0.35	0.13	13.70	16.6	20
ZZ69346		0.21	0.007	0.08	1.78	773	<0.2	<10	600	0.97	0.43	0.58	0.32	21.0	11.6	29
ZZ69347		0.19	0.003	0.11	1.29	66.7	<0.2	<10	370	0.82	0.28	0.57	0.43	25.6	11.5	23
ZZ69348		0.26	0.003	0.04	1.33	18.4	<0.2	<10	140	0.38	0.31	0.30	0.24	22.3	7.9	24
ZZ69349		0.14	0.006	0.10	3.60	32.4	<0.2	<10	180	2.09	0.31	0.23	2.66	84.6	21.9	34
ZZ69350		0.22	0.004	0.03	1.34	20.0	<0.2	<10	230	0.72	0.41	0.06	0.12	23.0	8.6	23
ZZ69351		0.18	0.002	0.06	1.34	15.3	<0.2	<10	160	0.44	0.34	0.13	0.14	21.2	8.2	27
ZZ69352		0.22	0.001	0.03	1.21	13.3	<0.2	<10	120	0.41	0.36	0.04	0.11	21.8	8.1	22
ZZ69353		0.27	0.008	0.07	1.12	24.5	<0.2	<10	100	0.95	0.28	0.03	0.30	31.0	17.2	20
ZZ69354		0.14	0.002	0.04	1.81	25.3	<0.2	<10	100	0.60	0.26	0.08	0.41	35.9	10.4	30
ZZ69355		0.18	0.001	0.04	1.47	13.5	<0.2	<10	440	0.45	0.34	0.38	0.09	19.50	7.4	28
ZZ69356		0.23	0.003	0.16	1.31	12.3	<0.2	<10	610	0.92	0.31	0.38	0.16	23.5	9.2	25
ZZ69357		0.22	0.003	0.15	1.49	19.3	<0.2	<10	470	0.83	0.28	0.38	0.21	36.2	11.6	29
ZZ69358		0.29	0.004	0.18	0.92	34.6	<0.2	<10	320	0.87	0.26	1.16	0.70	32.7	12.8	20
ZZ69359		0.26	0.004	0.15	1.47	23.9	<0.2	<10	560	0.73	0.27	0.44	0.33	36.8	12.8	30
ZZ69360		0.14	0.003	0.21	1.44	59.7	<0.2	<10	570	0.71	0.25	0.99	0.64	31.5	11.8	25





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 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69321		1.51	28.3	3.90	4.21	0.05	0.02	0.05	0.037	0.07	8.7	11.5	0.22	477	3.20	0.01
ZZ69322		1.16	37.5	5.18	3.72	0.07	0.02	0.05	0.040	0.07	19.5	10.5	0.18	537	4.99	0.01
ZZ69323		1.44	30.6	4.03	4.25	0.05	0.05	0.08	0.038	0.06	9.2	26.3	0.40	857	2.17	<0.01
ZZ69324		1.84	12.7	2.75	6.25	0.05	<0.02	0.03	0.021	0.06	12.8	10.0	0.20	554	1.87	<0.01
ZZ69325		1.65	28.5	4.34	5.54	0.06	0.02	0.05	0.036	0.07	19.7	18.9	0.33	948	2.93	0.01
ZZ69326		0.77	62.4	5.39	2.11	0.09	0.03	0.05	0.044	0.06	24.7	4.1	0.08	492	5.34	<0.01
ZZ69327		1.38	76.3	3.32	2.18	0.06	0.02	0.05	0.034	0.05	10.0	5.6	0.12	274	12.50	<0.01
ZZ69328		1.77	42.3	3.59	5.14	0.05	0.05	0.09	0.037	0.06	10.9	19.5	0.40	331	4.08	<0.01
ZZ69329		1.64	56.7	3.22	3.44	0.07	0.02	0.06	0.037	0.05	9.1	9.2	0.19	249	7.94	0.01
ZZ69330		1.87	47.0	4.01	4.32	0.10	0.05	0.07	0.037	0.07	10.0	20.9	0.41	513	5.80	0.01
ZZ69331		1.65	37.2	3.47	4.63	0.09	0.02	0.11	0.032	0.06	11.6	16.8	0.37	518	3.39	0.01
ZZ69332		2.03	13.4	2.47	6.08	0.07	<0.02	0.03	0.024	0.05	10.4	15.5	0.31	223	1.61	0.01
ZZ69333		1.55	25.2	3.58	5.21	0.08	0.03	0.06	0.034	0.05	8.9	18.6	0.36	678	1.90	0.01
ZZ69334		2.09	22.0	4.24	5.80	0.08	0.02	0.05	0.033	0.06	7.7	20.3	0.42	697	1.75	0.01
ZZ69335		2.87	18.1	2.65	5.89	0.08	<0.02	0.03	0.025	0.05	11.9	20.8	0.41	350	1.42	0.01
ZZ69336		1.74	29.0	3.83	5.20	0.08	0.03	0.07	0.034	0.06	8.2	20.4	0.36	641	2.08	0.01
ZZ69337		2.69	19.0	3.06	6.13	0.08	<0.02	0.12	0.029	0.05	12.0	20.6	0.40	356	1.62	0.01
ZZ69338		3.86	23.5	3.08	6.47	0.08	<0.02	0.04	0.027	0.06	10.7	21.8	0.28	311	2.05	0.01
ZZ69339		1.72	23.8	3.63	6.13	0.09	0.02	0.04	0.034	0.06	11.3	25.2	0.48	616	2.42	0.01
ZZ69340		3.49	25.6	3.58	5.17	0.07	<0.02	0.03	0.029	0.08	5.3	14.9	0.29	1180	1.63	0.02
ZZ69341		8.62	39.7	3.59	6.06	0.11	0.12	0.08	0.037	0.09	10.2	20.8	0.47	1770	1.55	0.01
ZZ69342		4.63	48.7	3.92	6.32	0.11	0.08	0.13	0.036	0.07	11.1	25.1	0.52	948	1.62	0.01
ZZ69343		1.50	24.6	3.52	5.90	0.08	0.05	0.04	0.034	0.05	10.7	27.2	0.57	711	1.86	<0.01
ZZ69344		2.15	30.8	4.35	8.92	0.09	0.09	0.07	0.041	0.05	9.1	31.2	0.65	777	0.93	0.01
ZZ69345		2.19	171.0	2.81	5.50	0.07	0.11	0.13	0.042	0.05	5.2	25.1	0.49	2310	0.73	0.01
ZZ69346		6.23	16.2	3.26	6.19	0.09	0.10	0.81	0.038	0.07	7.5	28.5	0.56	376	0.33	0.01
ZZ69347		1.19	20.4	3.27	4.40	0.09	0.06	0.59	0.029	0.05	10.2	16.5	0.42	781	1.38	0.01
ZZ69348		1.61	14.3	2.86	6.23	0.08	<0.02	0.09	0.028	0.05	10.3	13.0	0.31	408	1.43	0.01
ZZ69349		1.42	31.5	3.62	4.17	0.15	0.19	1.02	0.054	0.06	16.7	20.6	0.27	1850	6.45	0.01
ZZ69350		5.87	17.7	3.15	6.93	0.08	<0.02	0.08	0.032	0.07	11.5	10.9	0.20	449	1.67	<0.01
ZZ69351		2.52	16.1	3.54	6.49	0.08	<0.02	0.05	0.030	0.08	10.0	13.7	0.32	624	1.62	0.01
ZZ69352		2.64	16.0	3.63	6.24	0.08	<0.02	0.11	0.031	0.08	10.2	8.0	0.16	1060	1.58	0.01
ZZ69353		1.38	36.3	5.42	3.29	0.11	0.04	0.31	0.040	0.05	13.3	12.4	0.23	901	7.24	0.01
ZZ69354		1.36	17.2	3.88	5.36	0.10	0.02	0.32	0.040	0.05	14.4	17.4	0.37	531	1.39	0.01
ZZ69355		1.68	15.2	3.25	7.65	0.07	<0.02	0.03	0.029	0.06	9.3	19.4	0.41	332	1.84	<0.01
ZZ69356		2.23	19.9	3.18	4.36	0.09	0.08	0.43	0.031	0.06	12.3	24.4	0.39	466	1.10	0.01
ZZ69357		1.82	21.7	3.34	5.05	0.10	0.07	0.21	0.033	0.05	14.2	17.6	0.46	583	1.80	0.01
ZZ69358		0.88	29.5	3.66	3.13	0.13	0.09	0.68	0.031	0.07	18.0	10.0	0.73	1460	1.79	0.02
ZZ69359		3.84	21.4	3.36	5.00	0.11	0.06	0.35	0.026	0.06	16.8	19.6	0.57	964	1.32	0.02
ZZ69360		1.05	20.1	3.89	4.66	0.12	0.07	1.18	0.030	0.05	16.2	10.7	0.43	1790	2.25	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69321		0.45	26.0	1420	13.8	11.4	0.001	0.04	0.89	1.8	0.8	0.6	11.5	<0.01	0.05	0.4
ZZ69322		0.37	38.5	1610	19.4	12.8	0.001	0.07	0.91	2.2	0.8	0.6	26.7	<0.01	0.04	0.8
ZZ69323		0.63	32.3	690	25.3	11.9	0.001	0.02	0.78	4.0	0.7	0.5	12.5	<0.01	0.07	2.7
ZZ69324		0.80	13.7	680	13.3	12.3	0.001	0.02	0.68	1.3	0.4	0.8	8.9	<0.01	0.04	0.3
ZZ69325		0.36	33.6	1700	16.1	14.0	0.001	0.06	1.11	1.4	1.0	0.6	19.4	<0.01	0.04	0.5
ZZ69326		0.14	59.2	1390	25.9	10.3	0.002	0.02	0.94	4.6	1.4	0.4	8.9	<0.01	0.03	1.5
ZZ69327		0.22	45.0	630	17.5	9.2	0.005	0.02	5.20	3.2	3.4	0.4	9.8	<0.01	0.07	0.7
ZZ69328		0.42	33.0	800	16.4	12.8	0.002	0.02	1.38	3.0	1.2	0.5	10.9	<0.01	0.06	1.1
ZZ69329		0.32	33.9	1000	17.5	10.0	0.002	0.03	2.17	1.7	2.5	0.4	9.2	<0.01	0.06	0.6
ZZ69330		0.28	39.5	610	20.0	10.2	0.001	0.03	1.51	3.8	1.5	0.5	8.7	<0.01	0.07	2.0
ZZ69331		0.42	30.4	730	20.5	10.9	<0.001	0.03	1.32	2.6	1.2	0.5	12.3	<0.01	0.05	0.9
ZZ69332		0.47	14.9	650	12.6	14.8	<0.001	0.04	0.52	0.9	0.5	0.6	8.5	<0.01	0.05	0.2
ZZ69333		0.63	25.7	460	17.5	10.5	<0.001	0.02	0.69	3.2	0.6	0.5	7.8	<0.01	0.05	1.9
ZZ69334		0.54	24.1	1040	22.0	11.9	<0.001	0.05	0.65	1.8	0.7	0.5	7.5	<0.01	0.07	0.6
ZZ69335		0.47	18.5	740	11.7	14.7	<0.001	0.04	0.50	1.5	0.6	0.7	12.1	<0.01	0.04	0.4
ZZ69336		0.57	26.8	770	20.2	13.4	<0.001	0.03	0.71	2.7	0.7	0.5	8.1	<0.01	0.06	1.3
ZZ69337		0.72	19.8	660	13.9	14.2	<0.001	0.03	0.57	1.8	0.6	0.6	9.4	<0.01	0.06	0.7
ZZ69338		0.64	16.9	750	14.9	12.3	<0.001	0.04	0.57	1.4	0.7	0.7	9.8	<0.01	0.04	0.4
ZZ69339		0.53	29.7	890	17.6	12.0	<0.001	0.03	0.72	2.0	0.7	0.6	10.3	<0.01	0.07	0.8
ZZ69340		0.20	19.7	1410	21.8	16.5	<0.001	0.08	0.60	0.5	0.5	0.5	17.8	<0.01	0.05	<0.2
ZZ69341		0.50	26.5	850	30.6	22.8	<0.001	0.05	0.52	5.6	1.1	0.5	26.9	0.01	0.05	2.2
ZZ69342		0.42	33.3	440	35.3	20.4	<0.001	0.03	0.54	6.1	1.0	0.5	24.1	<0.01	0.05	3.1
ZZ69343		0.53	32.4	290	20.5	10.3	<0.001	0.02	0.58	3.5	0.5	0.5	12.3	<0.01	0.05	2.8
ZZ69344		0.41	36.6	270	33.1	10.7	<0.001	0.03	0.28	5.1	0.6	0.7	18.9	<0.01	0.03	5.0
ZZ69345		0.23	26.1	370	13.3	9.4	<0.001	0.03	0.34	4.5	0.6	0.4	14.3	<0.01	0.05	2.9
ZZ69346		0.37	24.7	840	24.2	16.1	<0.001	0.06	0.46	3.9	0.8	0.6	16.9	<0.01	0.02	1.9
ZZ69347		0.58	25.9	780	30.7	9.4	<0.001	0.05	1.53	3.2	0.8	0.5	18.4	<0.01	0.05	1.4
ZZ69348		0.56	17.3	480	17.0	13.0	<0.001	0.03	0.81	1.1	0.4	0.7	11.3	<0.01	0.04	0.2
ZZ69349		0.74	83.5	1440	37.8	11.2	0.006	0.06	2.35	7.4	2.9	0.4	17.6	0.01	0.20	6.6
ZZ69350		0.69	18.9	470	18.1	16.5	<0.001	0.02	1.02	2.1	0.4	0.9	10.7	<0.01	0.06	0.5
ZZ69351		0.83	18.1	480	16.0	16.8	<0.001	0.04	0.73	1.7	0.4	0.7	12.6	<0.01	0.04	0.4
ZZ69352		0.64	13.7	460	16.2	18.5	<0.001	0.03	0.65	1.6	0.3	0.7	11.4	<0.01	0.05	0.4
ZZ69353		0.38	29.7	700	35.8	8.0	<0.001	0.02	1.59	3.7	1.3	0.4	15.4	<0.01	0.04	4.6
ZZ69354		1.07	27.2	600	39.5	9.7	<0.001	0.04	1.71	2.7	0.9	0.6	10.3	0.01	0.05	1.0
ZZ69355		0.85	19.5	620	15.1	11.5	<0.001	0.03	0.58	1.7	0.3	0.7	18.9	<0.01	0.04	0.5
ZZ69356		0.66	27.6	580	34.0	11.3	<0.001	0.03	0.55	4.5	0.8	0.5	19.8	<0.01	0.03	2.4
ZZ69357		0.69	32.8	650	18.4	10.8	<0.001	0.03	0.76	4.1	0.9	0.5	19.8	<0.01	0.04	2.3
ZZ69358		0.51	31.7	920	47.7	7.0	<0.001	0.04	1.44	5.4	1.2	0.4	30.9	0.01	0.04	2.7
ZZ69359		1.04	33.7	570	50.0	10.0	<0.001	0.02	1.23	4.3	0.8	0.5	22.4	<0.01	0.05	3.1
ZZ69360		0.60	28.3	1460	109.5	8.2	<0.001	0.10	4.51	2.8	1.4	0.5	23.4	0.01	0.07	1.0



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69321		0.010	0.18	0.91	46	0.16	4.72	107	<0.5
ZZ69322		0.008	0.21	0.85	44	0.13	7.09	110	0.5
ZZ69323		0.007	0.19	0.74	46	0.10	5.94	110	1.4
ZZ69324		0.029	0.23	0.64	62	0.25	2.61	63	<0.5
ZZ69325		0.012	0.23	0.91	61	0.15	8.16	117	0.5
ZZ69326		<0.005	0.21	0.87	45	<0.05	17.15	181	0.7
ZZ69327		0.005	0.26	2.27	45	0.07	11.00	373	0.5
ZZ69328		0.007	0.25	1.00	59	0.11	7.89	144	1.1
ZZ69329		0.009	0.19	1.47	37	0.13	6.18	212	<0.5
ZZ69330		<0.005	0.20	1.08	42	0.05	7.32	171	1.4
ZZ69331		0.013	0.19	1.09	41	0.12	7.95	129	<0.5
ZZ69332		0.017	0.16	0.70	47	0.22	2.89	59	<0.5
ZZ69333		0.010	0.18	0.67	46	0.12	4.61	88	0.7
ZZ69334		0.012	0.14	0.60	50	0.11	3.17	83	<0.5
ZZ69335		0.017	0.17	0.94	47	0.20	5.62	69	<0.5
ZZ69336		0.009	0.19	0.69	49	0.11	4.71	91	0.7
ZZ69337		0.019	0.16	0.81	48	0.23	3.86	71	<0.5
ZZ69338		0.014	0.20	0.81	47	0.18	4.85	58	<0.5
ZZ69339		0.013	0.18	0.75	48	0.14	4.60	102	0.5
ZZ69340		0.007	0.15	0.66	38	0.08	3.46	76	<0.5
ZZ69341		0.008	0.13	3.95	38	0.11	13.80	92	3.3
ZZ69342		0.007	0.12	1.53	39	0.08	14.40	99	2.1
ZZ69343		0.009	0.13	0.74	46	0.11	3.75	93	1.6
ZZ69344		<0.005	0.13	1.15	35	<0.05	7.48	98	2.8
ZZ69345		<0.005	0.08	2.15	22	<0.05	6.25	82	3.1
ZZ69346		0.006	3.79	3.90	25	0.08	8.59	656	2.5
ZZ69347		0.014	0.19	1.78	39	0.23	8.04	160	1.4
ZZ69348		0.021	0.15	0.70	48	0.19	3.15	80	<0.5
ZZ69349		0.011	0.18	2.27	57	0.14	20.5	508	6.4
ZZ69350		0.018	0.20	1.08	52	0.20	5.71	84	<0.5
ZZ69351		0.024	0.13	0.69	51	0.21	3.34	76	<0.5
ZZ69352		0.018	0.17	0.65	49	0.15	2.95	60	<0.5
ZZ69353		0.005	0.21	0.82	30	0.06	5.65	102	0.9
ZZ69354		0.029	0.17	0.93	45	0.22	6.17	111	<0.5
ZZ69355		0.024	0.18	0.56	61	0.25	2.82	69	<0.5
ZZ69356		0.014	0.16	0.94	36	0.21	8.90	86	2.0
ZZ69357		0.013	0.19	6.18	49	0.20	9.85	109	1.7
ZZ69358		0.018	0.31	1.71	37	0.26	17.35	140	2.2
ZZ69359		0.035	0.21	2.43	47	0.20	10.15	133	1.6
ZZ69360		0.017	0.32	1.77	50	0.22	16.45	216	1.5



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69361		0.18	0.003	0.17	1.04	59.4	<0.2	<10	460	0.57	0.18	7.44	0.63	28.1	9.1	18
ZZ69362		0.16	0.003	0.16	0.74	67	<0.2	<10	420	0.46	0.15	10.10	0.53	21.3	7.2	13
ZZ69363		0.21	0.002	0.15	0.96	30.4	<0.2	<10	110	0.49	0.15	4.98	0.49	22.8	6.6	18
ZZ69364		0.21	0.003	0.12	0.94	40.2	<0.2	<10	130	0.47	0.18	2.83	0.33	19.95	5.3	15
ZZ69365		0.17	0.003	0.13	0.79	40.4	<0.2	<10	110	0.54	0.15	2.10	0.53	27.9	5.8	17
ZZ69366		0.16	0.001	0.03	0.59	13.3	<0.2	<10	110	0.59	0.34	0.04	0.12	16.55	8.9	8
ZZ69367		0.21	0.002	0.05	2.03	14.7	<0.2	<10	230	0.52	0.29	0.12	0.09	25.5	6.2	30
ZZ69368		0.13	0.004	0.14	0.46	89	<0.2	<10	180	0.34	0.07	15.25	0.26	24.0	3.2	8
ZZ69369		0.27	0.002	0.13	1.41	126.0	<0.2	<10	320	0.76	0.22	8.56	0.43	25.6	6.9	18
ZZ69370		0.12	0.002	0.15	1.72	202	<0.2	<10	430	1.27	0.32	1.71	0.65	40.4	13.8	28
ZZ69371		0.23	0.001	0.07	0.44	63	<0.2	10	850	0.39	0.13	14.70	0.21	13.55	5.3	8
ZZ69372		0.21	0.003	0.07	1.09	48.9	<0.2	<10	390	1.10	0.35	3.45	0.62	12.10	10.3	16
ZZ69373		0.22	0.002	0.05	1.87	5.8	<0.2	<10	120	1.45	0.53	0.15	0.02	19.40	19.4	35
ZZ69374		0.30	0.002	0.04	1.67	5.8	<0.2	<10	210	1.34	0.56	0.23	0.06	22.9	16.1	28
ZZ69375		0.14	0.004	0.11	2.39	457	<0.2	<10	2650	1.56	0.15	3.39	4.78	12.15	16.3	26
ZZ69376		0.32	0.004	0.22	1.85	413	<0.2	10	1350	1.60	0.40	0.48	1.35	17.15	12.9	23
ZZ69377		0.22	0.002	0.56	0.61	8.7	<0.2	<10	200	1.23	0.77	0.16	0.25	17.65	29.4	8
ZZ69378		0.32	0.005	0.53	0.59	18.9	<0.2	<10	390	0.68	0.21	0.11	0.65	16.85	10.8	9
ZZ69379		0.19	0.003	0.14	1.59	5.5	<0.2	<10	440	1.18	0.39	0.33	0.21	15.75	10.6	18
ZZ69380		0.20	0.001	0.08	1.32	6.5	<0.2	<10	140	0.58	0.32	0.06	0.32	20.5	10.6	19
ZZ69381		0.22	0.003	0.05	1.88	14.8	<0.2	<10	280	1.33	0.43	0.03	0.16	18.30	15.4	29
ZZ69382		0.13	0.002	0.03	1.79	12.5	<0.2	<10	140	0.52	0.33	0.03	0.18	17.65	9.7	27
ZZ69383		0.19	0.002	0.03	1.83	15.3	<0.2	<10	190	0.80	0.33	0.06	0.13	22.3	10.9	31
ZZ69384		0.23	0.002	0.04	1.68	19.0	<0.2	<10	140	0.79	0.35	0.04	0.18	20.3	13.2	27
ZZ69385		0.17	0.003	0.03	1.94	30.1	<0.2	<10	120	0.85	0.38	0.03	0.46	16.50	15.0	30
ZZ69386		0.20	0.001	0.08	1.32	16.7	<0.2	<10	120	0.58	0.40	0.06	0.28	18.25	6.7	24
ZZ69387		0.19	0.002	0.05	0.85	33.0	<0.2	<10	220	0.38	0.40	0.03	0.12	14.35	6.8	15
ZZ69388		0.18	0.002	0.09	1.09	15.1	<0.2	<10	250	0.99	0.36	0.20	0.10	27.7	11.0	15
ZZ69389		0.21	0.002	0.04	1.11	15.8	<0.2	<10	150	0.55	0.45	0.08	0.14	15.35	9.4	17
ZZ69390		0.18	0.001	0.04	0.38	50.0	<0.2	<10	60	0.94	0.52	0.06	0.06	8.24	14.3	8
ZZ69391		0.21	0.001	0.15	0.21	31.6	<0.2	<10	50	0.68	0.33	0.12	0.06	6.31	9.4	4
ZZ69392		0.20	0.002	0.23	0.48	33.2	<0.2	<10	130	1.02	0.35	1.18	0.14	21.5	9.6	8
ZZ69393		0.20	0.001	0.06	0.45	9.0	<0.2	<10	180	0.87	0.40	0.23	0.11	9.50	8.4	7
ZZ69394		0.31	0.003	0.21	0.20	18.4	<0.2	<10	60	0.71	0.36	0.22	0.14	5.20	10.1	3
ZZ69395		0.15	0.006	0.10	0.46	14.9	<0.2	<10	200	0.43	0.52	0.15	0.31	9.51	10.5	11
ZZ69396		0.27	0.002	0.05	2.12	22.8	<0.2	<10	300	0.86	0.29	0.05	0.36	28.4	17.8	32
ZZ69397		0.15	0.001	0.12	0.62	39.3	<0.2	<10	110	0.56	0.44	0.04	0.22	10.75	12.5	13
ZZ69398		0.30	0.002	0.07	2.12	17.3	<0.2	<10	440	0.74	0.35	0.36	0.13	24.4	9.0	33
ZZ69399		0.21	0.001	0.07	1.70	28.9	<0.2	<10	500	0.95	0.32	0.03	0.48	17.40	12.8	30
ZZ69400		0.25	0.002	0.04	1.07	37.0	<0.2	<10	180	0.87	0.33	0.20	0.10	23.1	11.8	20



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ69361		0.79	18.0	3.43	3.23	0.10	0.06	1.68	0.023	0.04	15.3	9.1	4.29	2000	0.95	0.03
ZZ69362		0.82	15.2	2.56	2.36	0.08	0.05	2.04	0.019	0.04	12.3	6.7	5.89	1460	0.63	0.03
ZZ69363		0.70	10.3	2.44	2.95	0.07	0.04	0.63	0.020	0.04	10.7	8.6	3.11	1020	0.79	0.03
ZZ69364		0.77	14.5	2.60	2.87	0.07	0.08	0.59	0.022	0.05	10.0	6.0	1.39	872	0.73	0.02
ZZ69365		1.24	7.8	2.54	2.01	<0.05	0.03	0.94	0.019	0.04	9.7	4.3	0.72	1680	0.47	0.01
ZZ69366		3.00	17.1	3.30	1.91	<0.05	<0.02	0.13	0.035	0.06	4.3	4.9	0.06	313	0.68	0.01
ZZ69367		1.90	10.3	2.75	6.86	<0.05	<0.02	0.15	0.024	0.05	12.3	12.8	0.34	270	1.44	0.01
ZZ69368		0.29	7.5	3.86	1.09	0.05	0.02	1.34	0.012	0.02	16.5	2.3	9.07	3840	0.25	0.03
ZZ69369		0.70	13.1	3.97	3.76	0.05	0.05	1.62	0.021	0.05	17.2	6.0	4.98	3030	0.66	0.02
ZZ69370		1.05	21.2	5.60	4.59	0.07	0.05	4.09	0.036	0.06	24.0	8.3	0.93	3110	0.77	0.01
ZZ69371		0.39	11.1	2.39	1.25	0.06	0.06	1.12	0.014	0.05	8.2	2.8	8.72	1720	0.26	0.03
ZZ69372		2.24	27.2	3.00	3.54	<0.05	0.07	1.58	0.021	0.08	5.7	11.4	1.83	680	0.48	0.01
ZZ69373		2.89	35.9	3.97	8.03	0.06	0.09	0.04	0.040	0.09	7.1	32.3	0.69	474	0.28	0.01
ZZ69374		2.29	28.8	3.08	7.14	<0.05	0.10	0.10	0.039	0.07	8.3	23.6	0.61	258	0.29	0.01
ZZ69375		0.66	43.1	7.42	5.26	0.05	0.07	4.52	0.046	0.06	5.4	9.4	1.67	1080	0.77	0.03
ZZ69376		3.44	52.8	6.49	5.64	0.05	0.10	4.59	0.068	0.11	6.7	9.6	0.20	1250	0.89	0.02
ZZ69377		2.68	57.6	3.21	1.72	<0.05	<0.02	1.34	0.055	0.08	7.6	6.8	0.17	759	0.98	0.01
ZZ69378		2.25	55.0	4.28	2.02	<0.05	<0.02	1.59	0.040	0.11	7.9	3.9	0.09	235	5.21	0.01
ZZ69379		3.95	22.2	2.71	6.15	<0.05	0.02	0.17	0.030	0.09	7.0	18.3	0.25	952	1.02	0.01
ZZ69380		2.79	11.3	3.09	7.02	<0.05	<0.02	0.06	0.026	0.06	8.9	10.9	0.17	1100	1.19	0.01
ZZ69381		2.14	40.7	4.18	5.64	<0.05	0.02	0.09	0.038	0.08	7.1	21.8	0.44	676	1.72	0.01
ZZ69382		2.33	18.8	3.82	6.22	<0.05	0.02	0.03	0.031	0.06	7.7	17.2	0.25	973	2.03	0.01
ZZ69383		4.73	24.1	3.69	6.05	<0.05	0.02	0.04	0.031	0.07	9.0	26.6	0.40	486	1.61	0.01
ZZ69384		2.14	22.9	3.75	6.10	<0.05	0.02	0.06	0.032	0.07	8.4	19.5	0.35	600	1.80	0.01
ZZ69385		2.04	29.5	5.14	5.41	<0.05	0.03	0.05	0.041	0.09	6.6	21.2	0.35	524	2.74	0.01
ZZ69386		2.83	18.5	3.62	6.52	<0.05	<0.02	0.05	0.026	0.08	8.1	6.4	0.15	518	2.52	0.01
ZZ69387		2.34	20.1	3.18	4.45	<0.05	<0.02	0.56	0.029	0.08	6.4	3.3	0.08	358	1.54	0.01
ZZ69388		2.77	28.9	4.09	3.42	<0.05	0.03	0.20	0.041	0.06	8.7	7.8	0.09	372	1.35	0.01
ZZ69389		4.77	20.3	4.15	4.46	<0.05	<0.02	0.06	0.041	0.06	6.8	8.8	0.19	346	1.36	0.01
ZZ69390		3.06	41.0	3.32	1.20	<0.05	<0.02	0.06	0.037	0.06	4.0	2.5	0.05	436	0.70	0.01
ZZ69391		1.35	22.3	3.32	0.44	<0.05	<0.02	1.63	0.030	0.04	2.9	1.4	0.02	280	0.53	0.01
ZZ69392		0.98	24.3	3.49	1.23	0.05	0.05	1.25	0.041	0.05	8.8	3.3	0.20	450	0.63	0.01
ZZ69393		1.37	19.8	3.68	1.29	<0.05	0.02	0.35	0.034	0.06	4.3	3.0	0.06	219	0.47	0.01
ZZ69394		1.34	26.1	3.21	0.48	<0.05	0.06	1.58	0.026	0.05	2.3	1.2	0.02	293	0.59	<0.01
ZZ69395		4.67	21.7	3.79	2.61	<0.05	<0.02	0.09	0.032	0.06	4.6	1.8	0.04	1480	1.02	0.01
ZZ69396		1.60	31.6	4.24	5.61	0.05	0.04	0.14	0.033	0.08	10.9	32.2	0.62	704	2.00	0.01
ZZ69397		2.49	29.0	4.06	2.22	<0.05	<0.02	0.30	0.042	0.07	5.0	4.4	0.07	729	1.07	0.01
ZZ69398		2.39	16.0	3.47	6.89	<0.05	0.03	0.10	0.032	0.07	11.1	24.6	0.53	295	1.23	0.01
ZZ69399		4.34	23.5	4.84	5.09	<0.05	0.02	0.32	0.045	0.09	6.8	20.7	0.38	635	1.47	0.01
ZZ69400		1.27	22.7	3.84	3.21	0.05	0.02	0.40	0.048	0.04	7.4	7.7	0.15	458	0.71	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ69361	0.47	22.5	1150	168.0	5.6	<0.001	0.06	4.82	3.1	1.1	0.3	54.6	0.01	0.06	1.2	
ZZ69362	0.34	17.0	980	87.5	4.6	<0.001	0.07	5.05	2.3	1.1	0.3	58.9	<0.01	0.05	0.7	
ZZ69363	0.49	16.1	960	60.9	5.6	<0.001	0.07	1.67	2.1	0.8	0.3	30.1	<0.01	0.05	0.8	
ZZ69364	0.39	14.5	1150	59.1	4.9	<0.001	0.10	2.40	1.8	1.0	0.3	21.7	0.01	0.04	0.7	
ZZ69365	0.16	13.5	1020	79.7	4.3	<0.001	0.09	1.58	1.3	0.4	0.3	19.3	<0.01	0.03	0.6	
ZZ69366	0.20	22.7	370	31.2	9.8	0.001	0.03	0.38	2.5	<0.2	0.5	11.0	<0.01	0.03	2.0	
ZZ69367	0.46	16.0	720	17.1	8.8	<0.001	0.04	0.47	1.0	0.7	0.7	11.9	<0.01	0.05	0.2	
ZZ69368	0.08	9.7	950	121.0	2.8	<0.001	0.05	0.98	1.8	1.1	0.2	58.2	<0.01	0.05	0.8	
ZZ69369	0.24	16.4	1630	34.7	6.8	0.001	0.09	0.85	2.3	0.8	0.5	36.5	<0.01	0.08	0.8	
ZZ69370	0.35	28.0	1060	164.5	10.5	<0.001	0.08	1.26	4.4	1.7	0.6	47.7	<0.01	0.06	1.2	
ZZ69371	0.09	10.4	550	22.1	3.7	<0.001	0.06	0.56	2.4	0.7	0.2	69.5	<0.01	0.05	1.0	
ZZ69372	0.26	22.6	660	32.3	8.0	<0.001	0.08	2.11	3.5	0.4	0.4	27.1	<0.01	0.04	2.0	
ZZ69373	0.15	40.1	230	38.0	9.8	<0.001	0.02	0.15	5.7	0.3	0.6	19.3	<0.01	0.04	7.7	
ZZ69374	0.25	32.2	160	26.1	8.1	<0.001	0.02	0.24	4.9	0.5	0.6	16.6	<0.01	0.01	7.8	
ZZ69375	0.20	34.8	1600	57.6	6.1	<0.001	0.14	14.55	6.3	1.1	0.3	59.2	<0.01	0.05	1.4	
ZZ69376	0.20	29.1	980	192.5	9.9	<0.001	0.19	18.30	12.3	1.0	0.6	88.9	<0.01	0.07	5.0	
ZZ69377	<0.05	38.7	520	29.2	6.7	0.001	0.01	0.66	4.7	1.1	0.4	28.8	<0.01	0.10	2.7	
ZZ69378	0.10	28.5	1670	19.8	9.9	0.005	0.20	1.74	2.9	2.4	0.4	66.7	<0.01	0.09	1.1	
ZZ69379	0.18	17.7	810	14.8	19.6	<0.001	0.05	0.26	3.0	0.6	0.6	33.2	<0.01	0.04	1.6	
ZZ69380	0.77	13.8	480	13.2	15.4	<0.001	0.04	0.36	2.4	0.3	0.8	9.1	<0.01	0.05	1.7	
ZZ69381	0.31	34.7	230	24.9	14.1	0.001	0.03	0.59	5.1	0.5	0.7	9.2	<0.01	0.05	3.7	
ZZ69382	0.78	19.7	360	15.6	12.1	<0.001	0.03	0.59	3.4	0.7	0.8	6.3	<0.01	0.05	2.5	
ZZ69383	0.61	23.9	580	19.3	15.0	<0.001	0.04	0.63	2.6	0.7	0.7	9.8	<0.01	0.06	1.1	
ZZ69384	0.53	25.6	490	20.2	14.6	<0.001	0.03	0.66	2.4	0.4	0.7	8.9	<0.01	0.07	1.1	
ZZ69385	0.43	35.3	860	29.2	16.6	<0.001	0.05	1.21	3.1	1.0	0.6	9.9	<0.01	0.06	1.6	
ZZ69386	0.51	16.0	800	24.6	17.8	<0.001	0.09	0.81	0.8	0.8	0.7	8.2	<0.01	0.05	<0.2	
ZZ69387	0.26	19.3	690	18.3	15.2	<0.001	0.04	1.70	2.1	0.6	0.7	14.6	<0.01	0.07	0.5	
ZZ69388	0.24	33.1	1220	24.9	13.5	<0.001	0.05	0.37	3.6	1.2	0.7	14.7	<0.01	0.06	2.3	
ZZ69389	0.31	17.6	690	23.4	10.7	<0.001	0.04	0.34	2.7	0.2	0.5	17.8	<0.01	0.07	0.8	
ZZ69390	0.14	33.0	240	11.0	5.7	<0.001	0.02	0.29	3.4	0.4	0.3	18.2	<0.01	0.10	1.7	
ZZ69391	<0.05	29.0	250	48.1	3.2	0.001	0.02	0.58	4.3	0.8	0.3	15.9	<0.01	0.03	3.4	
ZZ69392	0.11	31.2	670	36.1	4.3	<0.001	0.04	0.59	5.1	1.0	0.4	57.7	<0.01	0.05	3.3	
ZZ69393	0.09	26.2	250	25.0	4.9	<0.001	0.02	0.21	4.1	<0.2	0.6	36.6	<0.01	0.03	3.6	
ZZ69394	<0.05	33.8	150	32.3	3.4	<0.001	0.02	0.54	4.0	0.5	0.4	19.6	<0.01	0.02	4.3	
ZZ69395	<0.05	24.1	2120	23.0	8.5	<0.001	0.10	0.70	0.3	0.4	0.5	12.7	<0.01	0.10	<0.2	
ZZ69396	0.51	36.8	570	22.2	11.5	<0.001	0.03	0.77	3.6	1.1	0.5	10.7	<0.01	0.08	2.5	
ZZ69397	0.10	27.6	910	23.8	13.1	<0.001	0.05	1.20	2.7	0.6	0.4	19.0	<0.01	0.10	0.6	
ZZ69398	0.78	24.8	580	17.3	12.3	<0.001	0.06	0.48	3.1	0.6	0.7	19.5	<0.01	0.04	1.9	
ZZ69399	0.46	26.4	780	23.8	13.9	<0.001	0.05	0.91	2.8	0.2	0.6	17.0	<0.01	0.06	1.4	
ZZ69400	0.28	22.6	610	23.4	9.1	<0.001	0.04	0.86	4.5	0.9	0.5	13.8	<0.01	0.05	1.4	



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**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69361		0.017	0.28	1.53	32	0.16	15.95	298	1.4
ZZ69362		0.012	0.31	1.38	22	0.12	11.60	230	1.1
ZZ69363		0.017	0.27	1.26	29	0.17	8.93	161	1.1
ZZ69364		0.014	0.27	1.43	25	0.08	9.98	170	2.1
ZZ69365		0.006	0.13	0.92	23	0.08	6.86	165	1.0
ZZ69366		<0.005	0.14	0.44	16	<0.05	4.03	95	<0.5
ZZ69367		0.019	0.22	0.84	59	0.21	3.68	62	<0.5
ZZ69368		<0.005	0.23	1.97	12	<0.05	15.75	97	0.8
ZZ69369		0.009	0.17	2.26	30	0.10	18.35	227	1.0
ZZ69370		0.012	0.49	2.05	48	0.14	23.4	260	1.1
ZZ69371		<0.005	0.20	1.14	12	<0.05	9.01	101	1.4
ZZ69372		<0.005	0.29	1.58	18	0.05	8.32	565	2.1
ZZ69373		0.006	0.06	0.87	25	<0.05	8.59	110	3.9
ZZ69374		0.005	0.06	0.72	21	<0.05	7.23	86	3.6
ZZ69375		0.006	1.02	5.65	37	<0.05	21.8	2820	1.6
ZZ69376		<0.005	2.00	5.93	30	0.06	15.30	1540	3.0
ZZ69377		<0.005	0.09	0.82	11	<0.05	8.42	115	<0.5
ZZ69378		<0.005	0.22	1.50	40	<0.05	6.64	184	<0.5
ZZ69379		<0.005	0.12	0.80	31	0.05	8.30	65	0.5
ZZ69380		0.015	0.11	0.57	43	0.15	3.61	61	<0.5
ZZ69381		0.006	0.17	0.93	48	0.07	7.17	109	0.6
ZZ69382		0.012	0.18	0.56	57	0.15	3.99	74	0.6
ZZ69383		0.015	0.19	0.92	55	0.19	4.55	90	0.5
ZZ69384		0.013	0.15	0.70	51	0.14	4.21	101	<0.5
ZZ69385		0.007	0.19	0.88	49	0.08	4.86	145	1.0
ZZ69386		0.022	0.15	0.80	53	0.15	3.94	84	<0.5
ZZ69387		0.007	0.20	0.51	39	0.10	3.27	133	<0.5
ZZ69388		<0.005	0.22	0.77	28	0.06	9.30	106	0.7
ZZ69389		0.006	0.12	0.53	42	0.07	3.06	87	<0.5
ZZ69390		<0.005	0.06	0.34	15	<0.05	3.70	38	<0.5
ZZ69391		<0.005	0.09	0.49	6	<0.05	7.24	110	0.9
ZZ69392		<0.005	0.14	0.87	12	<0.05	18.05	96	1.3
ZZ69393		<0.005	0.06	0.45	10	<0.05	5.10	112	0.5
ZZ69394		<0.005	0.13	0.48	5	<0.05	8.36	133	2.8
ZZ69395		<0.005	0.08	0.52	28	0.07	4.21	164	<0.5
ZZ69396		0.011	0.17	0.69	61	0.13	4.51	117	1.0
ZZ69397		<0.005	0.11	0.62	24	<0.05	4.21	80	<0.5
ZZ69398		0.019	0.18	0.94	58	0.19	4.04	82	0.7
ZZ69399		0.010	0.15	0.67	51	0.13	3.52	117	0.6
ZZ69400		0.005	0.13	1.35	30	0.09	13.85	106	0.6



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**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69401		0.24	0.003	0.05	1.31	51.2	<0.2	<10	130	0.64	0.66	0.02	0.22	14.60	16.7	20
ZZ69402		0.23	0.002	0.06	1.78	29.2	<0.2	<10	160	0.96	0.29	0.09	0.28	35.6	13.7	30
ZZ69403		0.34	0.003	0.08	1.61	16.2	<0.2	<10	320	0.88	0.34	0.16	0.12	21.8	8.6	24
ZZ69404		0.25	0.003	0.03	0.96	10.9	<0.2	<10	100	0.63	0.47	0.04	0.10	18.65	12.7	15
ZZ69405		0.24	0.003	0.03	0.54	21.5	<0.2	<10	110	1.03	0.53	0.03	0.07	22.8	15.3	9
ZZ69406		0.24	0.003	0.05	0.48	11.1	<0.2	<10	140	0.83	0.35	0.13	0.03	22.4	17.1	7
ZZ69407		0.31	0.003	0.04	1.51	15.0	<0.2	<10	170	0.74	0.30	0.21	0.11	34.6	10.7	26
ZZ69408		0.27	0.002	0.06	0.52	29.0	<0.2	<10	170	1.11	0.58	0.53	0.07	38.2	27.2	9
ZZ69409		0.19	0.001	0.09	1.06	85.1	<0.2	<10	290	0.62	0.31	0.70	0.43	26.1	16.3	19
ZZ69410		0.18	0.002	0.14	1.11	39.2	<0.2	<10	190	0.60	0.23	7.78	0.27	25.5	10.5	19
ZZ69411		0.19	0.002	0.06	0.68	11.2	<0.2	<10	100	1.04	0.49	0.06	0.09	13.50	17.6	11
ZZ69412		0.27	0.002	0.05	1.13	19.9	<0.2	<10	150	0.83	0.34	0.07	0.18	18.10	13.4	17
ZZ69413		0.18	0.002	0.09	1.67	22.9	<0.2	<10	140	0.97	0.36	0.06	0.47	24.3	15.8	25
ZZ69414		0.28	0.001	0.06	1.40	23.2	<0.2	<10	310	0.91	0.32	0.50	0.31	21.5	11.5	22
ZZ69415		0.18	0.001	0.07	0.59	10.6	<0.2	<10	80	0.70	0.35	0.08	0.10	19.15	8.3	9
ZZ69416		0.16	0.002	0.18	0.62	76.8	<0.2	<10	110	0.79	0.17	1.75	0.22	26.7	6.9	12
ZZ69417		0.19	0.001	0.05	1.60	14.0	<0.2	<10	240	0.57	0.29	0.55	0.12	20.8	6.5	26
ZZ69418		0.27	0.007	0.17	1.38	33.6	<0.2	<10	260	0.80	0.26	0.81	0.51	21.0	7.9	22
ZZ69419		0.19	0.005	0.21	0.82	63.5	<0.2	<10	150	0.59	0.18	3.74	0.38	25.8	6.5	16
ZZ69420		0.19	0.003	0.18	1.21	54.8	<0.2	<10	260	0.64	0.19	6.80	0.62	38.5	8.8	20
ZZ69421		0.18	0.001	0.03	1.18	13.6	<0.2	<10	90	0.40	0.37	0.03	0.18	12.45	9.5	26
ZZ69422		0.26	0.001	0.10	1.49	12.7	<0.2	<10	180	0.60	0.36	0.19	0.15	15.10	10.1	22
ZZ69423		0.16	0.004	0.03	0.93	5.1	<0.2	<10	60	0.58	0.41	0.03	0.16	14.55	10.4	11
ZZ69424		0.19	0.002	0.06	1.29	15.7	<0.2	<10	110	0.55	0.40	0.18	0.21	18.05	11.9	21
ZZ69425		0.21	0.001	0.03	1.32	21.9	<0.2	<10	280	0.27	0.33	0.17	0.11	19.45	5.7	19
ZZ69426		0.25	0.001	0.03	1.78	17.5	<0.2	<10	150	0.43	0.33	0.06	0.24	17.70	10.9	25
ZZ69427		0.35	0.028	0.05	1.66	23.3	<0.2	<10	230	0.87	0.33	0.15	0.17	27.8	17.1	27
ZZ69428		0.17	0.003	0.07	1.79	20.8	<0.2	<10	320	0.78	0.33	0.08	0.35	15.85	13.9	26
ZZ69429		0.13	0.002	0.08	1.26	279	<0.2	<10	140	0.61	0.17	0.43	1.53	18.10	9.1	20
ZZ69430		0.14	0.001	0.04	0.36	36.7	<0.2	<10	80	0.08	0.31	0.04	0.07	11.05	1.1	5
ZZ69431		0.23	0.002	0.15	0.59	60.9	<0.2	<10	90	0.65	0.37	0.01	0.23	13.50	13.5	10
ZZ69432		0.17	0.002	0.09	1.21	12.4	<0.2	<10	70	0.41	0.42	0.06	0.24	22.1	7.7	23
ZZ69433		0.14	0.002	0.04	0.56	15.4	<0.2	<10	150	0.44	0.45	0.07	0.14	10.05	10.9	9
ZZ69434		0.19	0.002	0.24	0.81	38.9	<0.2	<10	260	0.49	0.34	0.87	0.21	9.40	12.6	12
ZZ69435		0.28	0.001	0.07	1.19	23.1	<0.2	<10	240	0.80	0.36	0.16	0.39	17.15	14.7	22
ZZ69436		0.13	0.003	0.07	0.67	18.4	<0.2	<10	120	0.72	0.48	0.81	0.13	13.10	11.8	17
ZZ69437		0.20	0.004	0.03	0.65	11.7	<0.2	<10	140	1.14	0.36	0.22	0.13	16.10	9.9	9
ZZ69438		0.15	0.005	0.03	0.41	8.5	<0.2	<10	70	0.37	0.50	0.05	0.22	12.40	7.2	9
ZZ69439		0.21	0.002	0.02	1.39	15.6	<0.2	<10	160	1.03	0.35	0.21	0.21	23.4	13.3	23
ZZ69440		0.15	0.003	0.14	0.65	38.9	<0.2	<10	160	1.11	0.32	0.74	0.31	26.2	15.2	11



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**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69401		3.81	32.4	3.94	5.29	0.06	0.02	0.20	0.037	0.06	6.7	9.4	0.17	651	1.05	<0.01
ZZ69402		1.74	18.2	3.40	5.10	0.07	0.02	0.70	0.032	0.05	13.7	20.8	0.50	538	1.11	0.01
ZZ69403		2.13	20.2	3.23	4.81	0.06	0.06	0.34	0.031	0.07	10.4	21.4	0.36	293	0.77	0.01
ZZ69404		5.38	31.6	3.02	3.34	0.05	0.02	0.04	0.027	0.11	8.4	7.5	0.17	530	1.02	<0.01
ZZ69405		4.42	38.7	3.97	1.94	0.07	0.02	0.03	0.030	0.15	10.0	7.0	0.11	925	0.45	<0.01
ZZ69406		2.76	25.3	5.73	1.07	0.09	0.05	0.16	0.062	0.07	10.1	2.4	0.07	1560	0.64	<0.01
ZZ69407		4.62	21.0	3.02	5.09	0.07	0.02	0.08	0.026	0.09	17.0	15.4	0.39	524	1.13	0.01
ZZ69408		2.93	88.1	3.82	1.63	0.11	0.07	0.67	0.048	0.12	23.9	3.9	0.07	1660	0.29	0.01
ZZ69409		0.81	23.4	3.79	3.15	0.08	0.06	0.56	0.035	0.07	15.2	7.3	0.29	1780	0.65	0.01
ZZ69410		0.92	17.6	2.85	3.12	0.07	0.08	1.30	0.024	0.04	14.3	8.5	4.75	1660	0.75	0.02
ZZ69411		2.12	29.7	3.38	2.44	0.05	0.02	0.04	0.030	0.14	5.6	8.9	0.10	720	0.53	<0.01
ZZ69412		1.64	22.0	3.58	3.51	0.06	0.02	0.35	0.031	0.08	7.6	15.2	0.17	538	1.59	<0.01
ZZ69413		1.59	20.7	4.27	4.86	0.07	0.04	0.27	0.041	0.07	9.3	20.0	0.25	751	1.78	<0.01
ZZ69414		2.91	21.9	3.76	4.18	0.07	0.06	0.19	0.034	0.07	8.4	20.9	0.30	676	1.57	0.01
ZZ69415		2.11	12.7	3.10	2.15	0.05	0.02	0.41	0.031	0.04	6.6	2.2	0.04	361	0.62	<0.01
ZZ69416		1.11	12.2	2.27	1.62	0.07	0.06	0.97	0.025	0.04	11.1	3.7	0.11	522	0.46	0.01
ZZ69417		1.88	10.9	2.74	6.19	0.06	0.02	0.10	0.025	0.05	9.2	13.9	0.33	314	0.82	0.01
ZZ69418		1.63	14.9	3.19	4.17	0.07	0.08	0.70	0.031	0.05	13.2	10.2	0.32	622	0.84	0.01
ZZ69419		0.99	15.3	2.84	2.39	0.06	0.09	1.42	0.023	0.04	12.9	5.9	1.67	1220	0.71	0.01
ZZ69420		1.36	15.6	5.50	3.46	0.11	0.08	1.75	0.029	0.04	23.2	7.0	3.94	4410	0.82	0.02
ZZ69421		2.67	17.9	4.78	6.13	0.07	0.04	0.02	0.027	0.12	5.8	12.2	0.27	255	1.26	<0.01
ZZ69422		2.11	19.7	3.79	6.06	0.06	0.02	0.03	0.030	0.06	7.0	18.2	0.30	437	1.41	<0.01
ZZ69423		5.09	16.1	1.92	3.85	<0.05	0.02	0.02	0.019	0.13	6.5	9.9	0.13	87	0.26	<0.01
ZZ69424		6.24	19.5	3.43	5.55	0.06	<0.02	0.03	0.033	0.08	8.7	16.7	0.25	484	1.31	<0.01
ZZ69425		3.14	8.2	2.51	6.67	<0.05	<0.02	0.02	0.021	0.05	9.4	10.3	0.24	338	1.20	0.01
ZZ69426		1.60	18.5	4.28	6.31	0.06	0.03	0.17	0.031	0.04	8.4	21.4	0.37	445	1.64	<0.01
ZZ69427		1.09	33.2	4.40	4.59	0.08	0.07	0.05	0.035	0.06	12.3	23.1	0.53	751	1.19	0.01
ZZ69428		1.43	35.3	4.88	5.17	0.07	0.03	0.04	0.039	0.06	6.7	30.6	0.45	765	1.50	0.01
ZZ69429		1.13	12.5	4.16	3.37	0.06	0.04	1.98	0.034	0.04	5.0	8.7	0.20	1820	0.72	0.01
ZZ69430		3.02	5.2	0.88	2.26	<0.05	<0.02	0.53	0.011	0.06	5.7	0.8	0.02	38	0.46	<0.01
ZZ69431		3.46	29.7	4.70	1.26	0.07	0.03	2.54	0.039	0.05	5.3	3.8	0.06	660	1.28	<0.01
ZZ69432		3.54	19.9	4.14	5.16	0.07	<0.02	0.05	0.035	0.08	11.0	12.2	0.24	346	1.52	<0.01
ZZ69433		4.40	21.5	3.21	2.76	0.05	<0.02	0.04	0.031	0.06	4.8	4.2	0.06	466	1.14	0.01
ZZ69434		2.82	19.6	2.66	2.79	0.05	0.04	0.19	0.033	0.07	4.4	6.7	0.16	1380	0.90	0.01
ZZ69435		1.28	36.8	4.33	4.42	0.06	0.03	0.04	0.037	0.07	6.4	17.1	0.29	860	2.08	0.01
ZZ69436		5.34	25.2	3.51	2.10	0.06	0.06	0.19	0.047	0.07	5.4	8.1	0.31	631	0.50	0.01
ZZ69437		4.32	26.2	4.35	1.87	0.06	0.06	0.21	0.053	0.05	5.4	3.1	0.06	460	0.69	0.01
ZZ69438		8.89	36.2	3.12	2.59	<0.05	<0.02	0.12	0.033	0.06	6.1	2.6	0.05	279	0.73	0.01
ZZ69439		7.69	30.2	4.11	4.33	0.06	0.05	0.08	0.039	0.07	8.4	24.9	0.35	629	1.38	0.01
ZZ69440		1.66	28.8	3.23	1.51	0.05	0.05	0.57	0.055	0.04	11.5	2.9	0.07	485	0.40	0.01



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**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ69401		0.55	20.0	730	23.5	12.7	<0.001	0.05	1.07	2.7	0.6	0.7	8.0	<0.01	0.09	0.7
ZZ69402		0.86	30.9	560	20.8	8.9	<0.001	0.04	1.25	3.0	0.8	0.5	10.4	0.01	0.05	1.3
ZZ69403		0.43	24.1	580	17.7	11.6	<0.001	0.04	0.63	4.4	0.6	0.6	14.8	<0.01	0.04	2.6
ZZ69404		0.50	21.9	440	14.3	15.8	<0.001	0.04	0.64	2.6	0.6	0.7	8.3	<0.01	0.04	1.5
ZZ69405		0.21	30.2	190	12.6	12.9	<0.001	0.02	0.34	4.0	0.5	0.5	13.8	<0.01	0.03	4.7
ZZ69406		0.09	29.3	250	28.7	7.1	<0.001	0.03	0.28	7.5	0.7	0.3	9.9	0.01	0.03	6.4
ZZ69407		0.57	24.4	500	13.6	17.5	<0.001	0.03	0.76	3.8	0.6	0.6	15.2	<0.01	0.04	1.4
ZZ69408		0.12	49.9	270	17.8	8.3	<0.001	0.05	0.88	13.7	0.9	0.5	26.7	0.01	0.16	2.3
ZZ69409		0.28	28.4	1060	360	8.0	<0.001	0.10	3.70	4.2	0.8	0.5	15.5	0.01	0.07	0.7
ZZ69410		0.34	20.4	1060	81.1	6.1	<0.001	0.07	3.16	3.8	0.7	0.4	50.3	0.01	0.07	1.5
ZZ69411		0.26	21.5	330	22.6	12.9	<0.001	0.04	0.40	3.3	0.4	0.6	12.8	<0.01	0.03	3.3
ZZ69412		0.48	24.3	280	27.3	13.6	<0.001	0.03	0.87	3.5	0.5	0.5	11.6	<0.01	0.04	3.2
ZZ69413		0.92	26.1	690	29.8	14.1	<0.001	0.04	1.03	3.5	0.8	0.6	11.9	<0.01	0.06	2.3
ZZ69414		0.49	26.1	860	27.9	16.2	<0.001	0.07	1.10	3.1	0.7	0.5	25.7	<0.01	0.05	1.4
ZZ69415		0.15	20.8	810	23.4	8.2	<0.001	0.05	0.32	1.3	0.5	0.5	8.3	<0.01	0.03	0.4
ZZ69416		0.20	19.5	720	47.3	3.6	<0.001	0.07	0.67	3.0	0.8	0.3	42.7	<0.01	0.03	1.1
ZZ69417		0.44	18.6	1290	19.2	12.8	<0.001	0.07	0.62	1.5	0.4	0.6	24.6	<0.01	0.05	0.4
ZZ69418		0.47	20.6	1210	49.7	10.0	<0.001	0.09	1.66	3.7	0.7	0.5	23.2	0.01	0.05	1.4
ZZ69419		0.21	18.4	1400	82.9	4.9	<0.001	0.11	4.27	2.8	1.1	0.3	28.6	<0.01	0.04	1.1
ZZ69420		0.32	19.9	1560	124.5	6.0	<0.001	0.10	3.79	3.8	1.1	0.4	36.0	0.01	0.06	1.0
ZZ69421		0.90	21.3	300	16.4	21.5	<0.001	0.02	0.62	3.8	0.4	0.7	6.2	<0.01	0.05	3.9
ZZ69422		0.60	18.5	300	17.8	12.8	<0.001	0.02	0.51	3.7	0.5	0.7	10.7	<0.01	0.05	2.6
ZZ69423		0.31	17.2	160	10.6	16.7	<0.001	0.02	0.17	2.6	0.3	0.7	10.5	<0.01	0.04	3.7
ZZ69424		0.97	18.5	340	16.8	14.6	<0.001	0.03	0.63	3.1	0.4	0.8	12.8	<0.01	0.04	1.7
ZZ69425		0.83	10.7	280	13.5	13.2	<0.001	0.02	0.44	2.5	0.3	0.8	9.5	<0.01	0.04	1.4
ZZ69426		0.85	22.3	260	20.0	11.0	<0.001	0.02	0.67	3.8	0.6	0.7	6.6	<0.01	0.06	2.6
ZZ69427		0.34	33.4	400	42.8	10.3	<0.001	0.03	0.78	5.3	0.6	0.4	9.1	<0.01	0.06	3.2
ZZ69428		0.32	29.1	420	22.4	13.9	<0.001	0.04	0.59	4.0	0.6	0.5	6.9	<0.01	0.06	2.4
ZZ69429		0.28	16.2	1030	275	7.3	<0.001	0.06	12.35	3.7	0.6	0.4	12.3	<0.01	0.05	1.2
ZZ69430		0.14	3.2	600	61.5	7.7	<0.001	0.07	0.42	0.7	0.2	0.5	24.5	<0.01	0.02	1.0
ZZ69431		0.15	37.8	590	88.3	7.7	<0.001	0.04	0.78	3.6	1.1	0.3	6.0	<0.01	0.04	2.4
ZZ69432		1.43	18.4	460	15.1	18.3	<0.001	0.03	0.85	2.8	0.6	0.7	8.4	<0.01	0.07	1.4
ZZ69433		0.34	16.6	540	24.0	10.9	<0.001	0.03	0.53	2.3	0.4	0.4	13.0	<0.01	0.07	0.5
ZZ69434		0.40	20.1	1030	27.2	15.3	<0.001	0.09	0.59	2.9	0.7	0.4	42.6	<0.01	0.06	0.8
ZZ69435		0.41	27.7	900	26.0	14.6	<0.001	0.05	1.15	3.0	0.9	0.5	16.0	<0.01	0.06	1.0
ZZ69436		0.19	22.1	620	19.0	7.9	<0.001	0.07	0.32	6.0	0.5	0.3	61.3	<0.01	0.08	1.9
ZZ69437		0.21	21.1	660	23.0	10.2	<0.001	0.02	0.25	6.7	0.7	0.3	16.1	0.01	0.05	3.0
ZZ69438		0.41	14.9	490	15.1	14.5	<0.001	0.02	0.32	2.3	0.5	0.5	14.2	<0.01	0.06	0.5
ZZ69439		0.65	26.1	650	29.1	12.9	<0.001	0.02	0.65	3.4	0.8	0.4	19.1	<0.01	0.05	1.8
ZZ69440		0.18	33.2	480	27.5	6.4	<0.001	0.03	0.72	6.5	0.8	0.3	43.2	0.01	0.09	2.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69401		0.011	0.16	0.58	41	0.13	3.43	97	<0.5
ZZ69402		0.025	0.16	0.89	44	0.26	6.13	137	<0.5
ZZ69403		0.008	0.14	0.82	35	0.36	7.46	110	1.5
ZZ69404		0.014	0.13	0.72	29	0.14	4.62	84	<0.5
ZZ69405		0.005	0.10	0.72	16	<0.05	6.72	68	0.9
ZZ69406		<0.005	0.13	0.81	11	<0.05	15.85	33	1.1
ZZ69407		0.024	0.17	0.93	42	0.21	7.17	76	<0.5
ZZ69408		<0.005	0.37	0.75	15	0.05	22.4	62	1.0
ZZ69409		0.011	0.43	2.64	30	0.15	11.30	167	1.2
ZZ69410		0.008	0.42	2.03	29	0.12	14.35	81	2.0
ZZ69411		0.006	0.12	0.77	18	0.05	5.38	70	0.7
ZZ69412		0.008	0.19	0.70	35	0.09	4.64	86	0.7
ZZ69413		0.016	0.15	0.80	45	0.20	4.62	121	1.0
ZZ69414		0.011	0.15	0.88	41	0.14	7.40	175	1.3
ZZ69415		0.006	0.15	0.54	18	0.09	6.60	84	<0.5
ZZ69416		0.005	0.07	0.79	18	0.08	12.50	124	1.7
ZZ69417		0.014	0.18	0.74	51	0.19	3.80	96	<0.5
ZZ69418		0.011	0.27	2.11	37	0.13	13.05	304	1.9
ZZ69419		<0.005	0.28	1.76	26	0.11	12.95	168	2.0
ZZ69420		0.009	0.43	3.35	33	0.12	21.9	288	1.7
ZZ69421		0.020	0.15	0.55	47	0.11	2.84	79	1.6
ZZ69422		0.008	0.15	0.54	49	0.12	3.45	65	0.6
ZZ69423		<0.005	0.10	0.31	14	<0.05	3.35	47	0.5
ZZ69424		0.017	0.16	0.53	50	0.22	2.51	66	<0.5
ZZ69425		0.019	0.20	0.46	57	0.24	2.14	46	<0.5
ZZ69426		0.011	0.19	0.49	55	0.15	2.82	80	0.9
ZZ69427		0.006	0.15	0.84	44	0.09	7.59	96	1.9
ZZ69428		<0.005	0.16	0.49	51	0.07	3.34	111	1.0
ZZ69429		0.009	0.67	1.45	39	0.07	7.00	567	1.1
ZZ69430		<0.005	0.47	0.33	16	0.05	0.87	36	<0.5
ZZ69431		<0.005	0.32	0.64	16	<0.05	8.64	178	0.5
ZZ69432		0.044	0.10	0.63	51	0.24	3.11	82	<0.5
ZZ69433		0.009	0.09	0.53	29	0.07	3.07	82	<0.5
ZZ69434		0.007	0.13	0.80	26	0.08	6.19	111	1.1
ZZ69435		0.008	0.14	0.68	47	0.09	5.62	131	0.6
ZZ69436		<0.005	0.08	0.56	26	<0.05	5.62	83	1.6
ZZ69437		<0.005	0.13	1.10	20	0.06	13.70	107	1.0
ZZ69438		0.008	0.05	0.44	29	0.10	2.70	85	<0.5
ZZ69439		0.012	0.13	1.72	38	0.14	6.73	110	1.1
ZZ69440		<0.005	0.15	1.06	20	0.06	16.55	114	0.9



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69441		0.13	0.007	0.13	0.49	28.5	<0.2	<10	90	1.14	0.37	0.85	0.11	21.9	13.3	10
ZZ69442		0.17	0.003	0.26	0.83	25.7	<0.2	<10	210	1.15	0.35	1.09	0.23	18.10	9.4	14
ZZ69443		0.28	0.003	0.06	1.11	57.6	<0.2	<10	400	0.72	0.36	0.38	0.13	14.25	9.4	18
ZZ69444		0.19	0.002	0.12	0.70	31.8	<0.2	<10	230	0.96	0.41	0.72	0.63	12.55	11.3	10
ZZ69445		0.25	0.002	0.23	1.14	19.7	<0.2	<10	620	0.80	0.28	0.99	0.41	20.2	13.6	19
ZZ69446		0.18	0.003	0.09	1.39	23.1	<0.2	<10	470	1.09	0.32	0.52	0.27	28.8	14.9	17
ZZ69447		0.26	0.002	0.05	1.36	15.6	<0.2	<10	320	0.72	0.36	0.06	0.41	21.6	11.6	22
ZZ69448		0.23	0.002	0.05	1.95	15.0	<0.2	<10	190	0.72	0.35	0.09	0.21	25.2	11.2	31
ZZ69449		0.19	0.001	0.09	1.41	18.8	<0.2	<10	150	0.46	0.34	0.05	0.35	17.70	9.6	25
ZZ69450		0.17	0.002	0.07	1.52	15.7	<0.2	<10	90	1.08	0.60	0.01	0.19	13.10	13.7	20
ZZ69451		0.20	0.002	0.08	0.31	13.1	<0.2	<10	90	0.98	0.45	0.16	0.05	18.85	16.9	5
ZZ69452		0.18	0.002	0.04	0.56	18.3	<0.2	<10	110	0.46	0.41	0.12	0.10	17.85	14.7	9
ZZ69453		0.16	0.008	0.05	0.69	10.5	<0.2	<10	230	1.14	0.55	0.03	0.29	16.00	21.3	9
ZZ69454		0.19	0.001	0.03	0.42	8.9	<0.2	<10	60	0.51	0.38	0.02	0.08	14.60	14.4	6
ZZ69455		0.17	0.006	0.04	0.53	10.6	<0.2	<10	90	0.42	0.41	0.25	0.19	37.0	8.5	10
ZZ69456		0.24	0.004	0.17	0.98	24.1	<0.2	<10	170	1.03	0.42	0.54	0.22	43.0	21.5	16
ZZ69457		0.20	0.002	0.07	0.53	4.8	<0.2	<10	190	0.56	0.29	0.44	0.23	32.0	10.7	10
ZZ69458		0.15	0.003	0.09	1.70	36.4	<0.2	<10	260	0.79	0.32	0.98	0.39	43.7	13.4	26
ZZ69459		0.18	0.002	0.07	0.65	27	<0.2	<10	90	0.43	0.12	12.00	0.34	23.5	5.2	9
ZZ69460		0.21	0.002	0.07	0.41	49	<0.2	<10	130	0.31	0.11	12.95	0.28	22.7	5.5	8
ZZ69461		0.32	0.001	0.16	1.01	70.4	<0.2	<10	110	0.62	0.22	0.79	0.31	18.90	6.1	18
ZZ69462		0.19	0.001	0.13	1.21	56.1	<0.2	<10	170	0.86	0.21	0.90	0.45	30.0	6.8	19
ZZ69463		0.23	0.001	0.13	1.08	97.8	<0.2	<10	160	0.64	0.19	0.92	0.85	29.0	7.2	20
ZZ69464		0.17	0.002	0.17	1.22	28.0	<0.2	<10	220	0.75	0.22	4.79	0.52	41.5	7.8	19



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69441		2.30	34.4	3.76	1.12	0.06	0.09	0.29	0.055	0.05	9.6	3.5	0.08	349	0.44	0.01
ZZ69442		20.9	34.1	4.82	2.26	0.07	0.11	0.54	0.049	0.07	8.9	8.8	0.26	561	0.85	0.02
ZZ69443		5.19	22.5	3.93	4.70	0.05	0.03	0.28	0.033	0.07	6.4	10.4	0.20	896	1.32	0.01
ZZ69444		6.53	23.8	2.56	2.10	<0.05	0.10	0.27	0.037	0.07	5.7	4.5	0.11	341	0.67	0.01
ZZ69445		1.84	35.7	3.19	3.18	0.05	0.06	0.31	0.032	0.05	8.3	15.3	0.39	769	1.37	0.02
ZZ69446		1.59	19.8	4.93	3.49	0.05	0.07	1.59	0.048	0.05	9.3	12.3	0.16	1000	0.81	0.01
ZZ69447		2.71	23.1	3.40	5.28	<0.05	0.02	0.07	0.036	0.06	10.1	15.4	0.23	499	1.52	<0.01
ZZ69448		2.44	23.3	3.41	5.78	<0.05	0.04	0.27	0.035	0.08	12.3	22.9	0.47	390	1.52	0.01
ZZ69449		1.67	23.5	3.96	5.92	0.05	<0.02	0.08	0.034	0.10	8.6	17.0	0.30	445	1.76	<0.01
ZZ69450		3.78	35.8	4.63	5.29	0.07	0.05	0.10	0.038	0.11	6.2	32.2	0.28	354	0.99	<0.01
ZZ69451		9.91	35.9	3.78	0.91	0.05	0.03	0.14	0.036	0.13	7.8	2.1	0.06	979	0.53	<0.01
ZZ69452		4.73	26.8	2.64	2.68	<0.05	0.02	0.06	0.023	0.19	7.7	4.2	0.07	1280	0.75	<0.01
ZZ69453		11.90	37.6	2.84	2.65	<0.05	0.02	0.08	0.029	0.22	5.8	4.6	0.06	3160	0.71	<0.01
ZZ69454		3.78	29.6	2.78	1.43	<0.05	0.02	0.04	0.048	0.11	5.8	1.4	0.03	662	0.46	<0.01
ZZ69455		7.59	27.6	2.64	2.93	0.05	0.02	0.16	0.026	0.23	17.1	4.7	0.07	498	0.99	<0.01
ZZ69456		3.21	50.2	3.61	3.14	0.07	0.06	0.26	0.049	0.11	19.9	8.7	0.22	1480	1.19	<0.01
ZZ69457		6.09	13.1	2.37	2.81	0.05	0.02	0.23	0.037	0.09	13.5	3.3	0.05	662	0.82	<0.01
ZZ69458		2.06	19.1	4.44	5.05	0.06	0.06	0.57	0.038	0.06	19.8	11.1	0.55	2320	1.03	0.01
ZZ69459		0.65	10.5	1.93	1.68	<0.05	0.05	0.92	0.016	0.04	16.5	4.9	7.56	1720	0.39	0.02
ZZ69460		0.57	12.6	2.54	1.22	0.05	0.07	1.15	0.015	0.04	14.2	3.1	7.95	1930	0.33	0.02
ZZ69461		1.38	14.0	3.67	3.19	0.05	0.10	1.23	0.031	0.06	12.3	5.7	0.27	950	0.72	<0.01
ZZ69462		0.98	13.7	3.03	3.34	<0.05	0.08	0.78	0.030	0.06	13.4	7.4	0.37	1100	0.73	0.01
ZZ69463		1.12	12.8	4.83	2.95	0.07	0.10	0.84	0.033	0.05	15.2	5.2	0.45	2660	0.74	0.01
ZZ69464		0.93	16.1	3.10	3.21	0.05	0.05	1.32	0.034	0.06	19.9	9.0	2.92	1240	1.15	0.02

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 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69441		0.18	32.1	600	28.8	5.6	<0.001	0.03	0.46	8.8	0.9	0.2	46.2	0.01	0.11	3.3
ZZ69442		0.33	30.1	1140	25.6	15.4	<0.001	0.08	0.50	5.2	1.1	0.3	41.7	0.01	0.07	1.8
ZZ69443		0.68	18.0	790	63.9	16.3	<0.001	0.03	2.04	2.4	0.6	0.5	19.2	<0.01	0.05	1.0
ZZ69444		0.31	23.7	1080	24.4	22.2	<0.001	0.08	1.34	4.4	0.8	0.3	34.7	<0.01	0.05	1.4
ZZ69445		0.39	29.1	920	22.7	8.0	<0.001	0.07	0.91	3.2	1.3	0.3	44.5	0.01	0.05	1.0
ZZ69446		0.42	23.5	860	38.1	9.8	<0.001	0.04	0.52	4.3	0.4	0.4	28.9	0.01	0.06	2.2
ZZ69447		0.94	19.6	370	28.6	13.7	<0.001	0.02	0.59	3.3	0.5	0.6	10.8	<0.01	0.06	1.9
ZZ69448		1.04	28.0	590	28.1	13.5	<0.001	0.03	0.82	3.0	0.7	0.6	13.4	0.01	0.05	1.8
ZZ69449		0.80	20.4	530	23.6	15.7	<0.001	0.03	0.73	1.8	0.5	0.6	9.4	<0.01	0.05	0.5
ZZ69450		0.48	27.0	410	26.9	14.8	<0.001	0.02	0.67	3.6	0.4	0.6	9.6	<0.01	0.05	3.2
ZZ69451		0.09	29.1	300	34.4	10.4	<0.001	0.05	0.32	3.5	0.2	0.3	26.8	<0.01	0.02	3.4
ZZ69452		0.37	20.1	420	24.9	17.4	<0.001	0.03	0.53	2.4	0.3	0.5	17.1	<0.01	0.04	2.6
ZZ69453		0.25	23.4	430	38.8	24.3	<0.001	0.03	0.60	2.8	0.2	0.5	15.3	<0.01	0.04	1.8
ZZ69454		0.12	18.9	490	33.8	12.0	<0.001	0.07	0.13	3.1	0.2	0.4	13.0	<0.01	0.02	2.7
ZZ69455		0.40	16.5	690	17.3	21.5	<0.001	0.05	0.60	2.8	0.2	0.5	12.2	<0.01	0.05	1.1
ZZ69456		0.41	41.5	470	40.8	11.7	<0.001	0.04	0.92	6.6	0.6	0.5	17.7	0.01	0.08	2.0
ZZ69457		0.57	14.2	690	11.9	13.4	<0.001	0.06	0.44	3.7	0.3	0.4	16.3	0.01	0.12	0.9
ZZ69458		0.66	23.2	1030	90.0	11.9	<0.001	0.08	2.18	4.3	0.6	0.6	20.2	0.01	0.05	1.5
ZZ69459		0.24	11.2	800	36.0	5.1	<0.001	0.05	3.01	2.2	0.5	0.2	70.2	0.01	0.04	0.7
ZZ69460		0.21	11.5	720	52.5	3.4	<0.001	0.06	6.60	2.4	0.6	0.2	98.8	0.01	0.05	1.0
ZZ69461		0.41	18.1	1130	50.7	7.4	<0.001	0.07	5.19	3.8	0.5	0.4	26.7	0.01	0.04	1.6
ZZ69462		0.36	15.9	900	80.8	7.5	<0.001	0.07	7.36	2.7	0.6	0.4	21.5	0.01	0.04	1.5
ZZ69463		0.38	18.1	1160	124.0	6.3	<0.001	0.06	5.12	4.2	0.7	0.3	20.4	0.01	0.04	1.7
ZZ69464		0.48	18.8	810	51.8	10.0	<0.001	0.05	2.06	3.6	0.5	0.4	37.6	0.01	0.04	1.5



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ69441		<0.005	0.12	0.97	17	0.10	23.6	81	1.8
ZZ69442		<0.005	0.20	1.97	23	0.07	21.4	123	2.3
ZZ69443		0.010	0.31	0.61	40	0.14	3.44	76	0.6
ZZ69444		<0.005	0.10	1.19	17	0.08	8.67	147	2.2
ZZ69445		0.008	0.11	3.22	35	0.12	11.30	103	1.5
ZZ69446		<0.005	0.12	1.69	29	0.15	11.35	116	1.7
ZZ69447		0.012	0.13	0.79	47	0.16	4.16	101	<0.5
ZZ69448		0.023	0.26	1.16	49	0.25	5.09	121	1.0
ZZ69449		0.019	0.12	0.64	52	0.17	2.81	101	<0.5
ZZ69450		0.005	0.10	0.66	24	0.06	4.82	89	1.6
ZZ69451		<0.005	0.34	0.97	7	<0.05	7.76	53	0.8
ZZ69452		0.007	0.15	0.49	20	0.05	3.67	72	<0.5
ZZ69453		0.006	0.25	0.74	14	<0.05	5.49	79	0.6
ZZ69454		<0.005	0.14	0.55	10	<0.05	4.44	120	0.5
ZZ69455		0.011	0.12	0.53	23	0.09	4.52	70	<0.5
ZZ69456		0.009	0.24	1.08	27	0.13	19.65	71	0.9
ZZ69457		0.020	0.09	0.46	28	0.17	8.39	50	<0.5
ZZ69458		0.015	0.27	1.27	47	0.16	12.55	131	1.2
ZZ69459		0.005	0.20	1.97	16	0.08	14.40	140	1.0
ZZ69460		<0.005	0.37	1.87	12	0.09	17.00	98	1.5
ZZ69461		0.008	0.52	1.65	27	0.13	13.35	174	2.3
ZZ69462		0.008	0.33	1.88	27	0.12	12.30	191	1.9
ZZ69463		0.011	0.44	1.57	34	0.15	20.2	454	2.5
ZZ69464		0.010	0.30	1.98	32	0.15	13.25	174	1.0





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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150337**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12150338**

Project: ATAC- Regional Area D (San)  
 P.O. No.: Soil 10  
 This report is for 147 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026801		0.32	0.002	0.13	1.40	19.9	<0.2	<10	130	0.63	0.24	0.10	0.35	17.35	16.1	22
DD026802		0.31	0.001	0.08	1.31	15.3	<0.2	<10	120	0.43	0.24	0.07	0.27	22.1	8.3	23
DD026803		0.33	0.003	0.41	1.92	22.9	<0.2	<10	190	0.93	0.26	0.10	0.94	28.2	14.2	25
DD026804		0.31	0.002	0.10	1.15	15.8	<0.2	<10	80	0.39	0.31	0.02	0.20	16.60	8.2	19
DD026805		0.32	0.003	0.05	1.48	15.1	<0.2	<10	110	0.55	0.24	0.04	0.20	17.25	9.8	23
DD026806		0.29	0.002	0.20	1.87	13.0	<0.2	<10	310	1.26	0.26	0.14	0.18	46.9	11.1	26
DD026807		0.34	0.002	0.07	1.61	11.7	<0.2	<10	100	0.44	0.20	0.07	0.51	33.5	10.2	26
DD026808		0.31	0.001	0.08	1.53	10.9	<0.2	<10	130	0.39	0.21	0.05	0.22	44.1	11.0	23
DD026809		0.31	0.002	0.04	1.40	14.6	<0.2	<10	130	0.59	0.20	0.05	0.31	38.0	16.2	21
DD026810		0.33	0.002	0.49	1.26	12.3	<0.2	<10	320	0.76	0.18	0.35	0.49	28.0	8.8	18
DD026811		0.28	0.001	0.08	1.47	10.8	<0.2	<10	380	0.43	0.21	0.07	0.33	23.2	6.2	23
DD026812		0.29	0.002	0.12	1.86	27.8	<0.2	<10	110	0.43	0.26	0.03	0.23	20.2	10.1	29
DD026813		0.31	0.002	0.27	1.67	20.2	<0.2	<10	500	0.85	0.24	0.35	0.32	22.9	10.9	25
DD026814		0.32	0.001	0.23	1.69	12.9	<0.2	<10	570	0.58	0.28	0.42	0.85	20.4	7.1	28
DD026815		0.30	0.002	0.24	1.55	25.0	<0.2	<10	160	0.57	0.22	0.04	0.34	22.4	10.0	26
DD026816		0.33	0.001	0.08	1.21	16.0	<0.2	<10	120	0.39	0.29	0.03	0.32	16.00	8.4	20
DD026817		0.44	0.003	0.05	1.76	24.1	<0.2	<10	390	0.86	0.23	0.22	0.30	24.5	13.4	28
DD026818		0.30	0.004	0.43	1.50	6.5	<0.2	<10	640	1.19	0.21	0.50	0.55	13.75	8.1	23
DD026819		0.28	0.003	0.28	2.11	11.3	<0.2	<10	360	1.48	0.32	0.40	0.43	17.75	9.9	27
DD026820		0.27	0.002	0.08	1.42	12.3	<0.2	<10	90	0.38	0.26	0.05	0.18	19.95	6.7	25
DD026821		0.30	0.001	0.10	1.88	18.5	<0.2	<10	570	0.73	0.28	0.20	0.09	18.15	9.1	28
DD026822		0.32	0.001	0.10	1.57	19.7	<0.2	<10	120	0.57	0.34	0.11	0.38	16.15	10.4	25
DD026823		0.47	0.002	0.11	1.54	144.0	<0.2	<10	490	0.95	0.31	0.76	0.42	18.15	10.2	28
DD026824		0.26	0.001	0.03	1.49	11.5	<0.2	<10	340	0.53	0.36	0.11	0.18	12.70	9.2	24
DD026825		0.43	0.002	0.04	2.01	301	<0.2	<10	420	0.99	0.42	0.21	0.12	15.85	15.0	31
DD026826		0.42	0.002	0.08	1.74	594	<0.2	<10	560	0.98	0.35	0.37	0.14	21.0	12.8	28
DD026827		0.34	0.002	0.17	0.97	216	<0.2	<10	300	1.16	0.32	0.38	0.85	16.35	16.2	15
DD026828		0.32	0.001	0.02	1.48	15.7	<0.2	<10	420	0.74	0.38	0.19	0.13	18.10	12.9	24
DD026829		0.28	0.002	0.06	1.73	15.0	<0.2	<10	430	0.76	0.28	0.30	0.10	21.7	9.4	27
DD026830		0.39	0.002	0.11	1.08	11.2	<0.2	<10	520	0.65	0.36	0.38	0.28	17.70	10.2	17
DD026831		0.32	0.002	0.06	1.43	19.4	<0.2	<10	170	0.71	0.27	0.03	0.32	20.3	13.7	24
DD026832		0.39	0.004	0.02	1.51	12.5	<0.2	<10	210	1.00	0.36	0.02	0.17	23.0	15.5	24
DD026833		0.28	0.002	0.05	1.69	15.0	<0.2	<10	320	0.88	0.33	0.03	0.29	23.5	14.0	26
DD026834		0.37	0.001	0.06	0.98	10.6	<0.2	<10	70	0.90	0.42	0.01	0.25	12.55	12.5	14
DD026835		0.39	0.002	0.06	1.58	14.6	<0.2	<10	300	0.73	0.37	0.11	0.23	19.40	11.4	26
DD026836		0.33	0.005	0.22	0.90	74.6	<0.2	<10	460	1.01	0.30	1.14	2.89	15.50	12.3	16
DD026837		0.27	0.008	0.36	0.92	237	<0.2	<10	490	0.96	0.24	0.85	1.22	23.2	11.1	19
DD026838		0.34	0.004	0.22	1.14	64.7	<0.2	<10	550	0.92	0.27	0.83	0.50	21.1	9.4	29
DD026839		0.34	0.004	0.18	1.33	35.3	<0.2	<10	660	0.72	0.22	2.35	0.55	25.4	9.3	22
DD026840		0.22	0.003	0.14	1.71	23.9	<0.2	<10	450	0.75	0.24	2.31	1.71	30.0	9.3	24



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**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD026801		1.65	33.5	4.68	4.46	<0.05	0.03	0.08	0.045	0.05	7.5	17.0	0.26	765	3.21	0.01
DD026802		2.40	17.9	3.57	5.63	<0.05	<0.02	0.09	0.027	0.05	10.3	11.1	0.20	624	2.41	0.01
DD026803		1.58	32.0	3.74	4.25	<0.05	0.08	0.16	0.039	0.06	10.2	17.8	0.33	548	2.55	0.01
DD026804		2.46	25.7	3.68	5.84	<0.05	0.02	0.05	0.025	0.06	8.0	9.6	0.17	403	2.09	0.01
DD026805		1.66	24.1	3.27	4.70	<0.05	0.02	0.03	0.029	0.05	8.2	17.4	0.32	442	2.07	<0.01
DD026806		4.67	38.9	3.36	5.49	0.05	0.06	0.05	0.031	0.06	17.6	34.6	0.43	358	2.02	0.01
DD026807		1.73	17.8	3.04	5.24	<0.05	0.02	0.03	0.026	0.04	13.4	19.0	0.41	320	2.24	0.01
DD026808		1.80	20.0	3.19	6.89	<0.05	0.02	0.04	0.026	0.04	19.8	10.1	0.26	327	2.76	0.01
DD026809		1.59	40.7	5.23	4.32	0.06	0.03	0.04	0.041	0.05	17.1	8.5	0.18	379	4.38	<0.01
DD026810		1.65	40.4	3.20	3.64	<0.05	0.05	0.10	0.039	0.06	13.3	25.7	0.30	179	7.77	0.01
DD026811		1.51	13.0	2.51	5.59	<0.05	<0.02	0.03	0.022	0.05	11.2	13.7	0.30	313	1.87	0.01
DD026812		2.06	23.7	4.49	6.15	<0.05	0.07	0.05	0.033	0.05	8.9	24.7	0.38	322	2.01	<0.01
DD026813		2.99	29.4	3.36	5.67	0.05	0.05	0.07	0.030	0.07	11.5	21.5	0.44	557	2.91	0.01
DD026814		1.99	17.1	3.09	6.97	<0.05	0.02	0.04	0.028	0.07	10.9	25.8	0.55	299	1.48	0.01
DD026815		1.39	32.2	3.44	5.05	<0.05	0.04	0.06	0.030	0.05	9.7	20.3	0.42	448	2.04	0.01
DD026816		2.15	21.0	3.37	5.79	<0.05	<0.02	0.04	0.025	0.06	7.7	11.3	0.23	524	2.52	<0.01
DD026817		1.71	52.6	3.59	5.21	0.05	0.06	0.13	0.029	0.06	13.6	24.8	0.62	455	1.56	0.01
DD026818		5.37	42.2	1.62	4.44	<0.05	0.12	0.09	0.023	0.06	8.4	27.8	0.42	238	1.31	0.02
DD026819		6.04	35.2	2.97	6.42	<0.05	0.15	0.09	0.038	0.08	10.4	34.5	0.51	609	1.09	0.01
DD026820		2.02	16.9	2.82	6.20	<0.05	<0.02	0.04	0.023	0.05	9.8	11.8	0.28	422	1.66	0.01
DD026821		2.24	24.5	3.31	6.60	<0.05	0.04	0.04	0.030	0.07	9.5	26.7	0.53	343	1.55	0.01
DD026822		2.30	25.0	4.05	6.17	0.05	<0.02	0.09	0.031	0.05	7.7	23.4	0.36	545	2.41	0.01
DD026823		2.53	33.0	3.36	4.95	0.05	0.10	0.15	0.030	0.07	9.6	17.5	0.53	467	1.35	0.02
DD026824		1.90	20.9	3.64	7.13	<0.05	0.04	0.02	0.027	0.06	5.9	14.5	0.28	340	1.46	0.01
DD026825		2.24	29.2	4.33	7.87	<0.05	0.05	0.03	0.035	0.05	7.1	21.8	0.54	704	1.19	0.01
DD026826		1.72	32.9	3.27	6.61	<0.05	0.11	0.66	0.033	0.06	9.0	28.0	0.56	235	0.75	0.01
DD026827		2.27	31.2	2.97	2.86	<0.05	0.13	0.34	0.036	0.07	7.3	13.2	0.24	499	0.46	0.01
DD026828		2.30	25.3	3.70	6.33	<0.05	0.02	0.03	0.030	0.06	7.9	22.7	0.40	564	1.44	0.01
DD026829		2.39	16.5	3.25	6.42	0.05	0.03	0.14	0.029	0.05	11.2	32.0	0.46	400	1.50	0.01
DD026830		3.00	26.8	3.30	5.26	<0.05	0.05	0.15	0.031	0.06	9.2	14.9	0.25	668	1.29	0.01
DD026831		1.75	31.6	4.13	4.69	<0.05	0.03	0.07	0.034	0.05	8.6	19.4	0.34	663	1.94	0.01
DD026832		1.83	37.7	4.22	4.81	0.06	0.04	0.15	0.036	0.04	10.5	18.3	0.34	593	1.99	0.01
DD026833		1.63	36.3	4.26	5.56	0.05	0.04	0.06	0.039	0.05	10.6	19.4	0.34	568	2.64	0.01
DD026834		1.93	37.4	4.32	3.31	<0.05	0.04	0.41	0.039	0.06	5.9	7.3	0.10	503	1.17	<0.01
DD026835		1.35	22.6	4.04	5.74	0.05	<0.02	0.09	0.040	0.05	8.7	14.3	0.30	510	2.36	0.01
DD026836		2.23	39.4	3.21	2.99	0.05	0.07	5.69	0.038	0.06	8.2	7.3	0.28	704	1.01	0.01
DD026837		0.91	21.5	3.94	2.99	0.05	0.08	7.43	0.030	0.07	11.0	9.5	0.34	1300	2.22	0.01
DD026838		5.15	25.4	2.96	3.33	0.05	0.09	1.77	0.036	0.06	11.3	10.9	0.36	366	0.85	0.01
DD026839		1.53	19.1	3.09	3.81	0.06	0.07	6.23	0.029	0.07	14.9	10.8	1.29	1030	1.09	0.02
DD026840		1.28	10.8	3.53	4.45	0.05	0.03	0.74	0.034	0.04	15.0	10.4	1.21	2230	0.90	0.01

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**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD026801		0.51	31.0	1030	26.2	12.0	<0.001	0.02	1.06	3.5	1.0	0.5	12.7	<0.01	0.05	1.5
DD026802		0.48	16.7	850	14.9	12.2	<0.001	0.03	0.90	1.5	0.8	0.6	9.1	<0.01	0.04	0.3
DD026803		0.49	35.4	910	23.4	12.1	0.001	0.02	0.94	3.9	2.2	0.5	15.0	<0.01	0.08	2.6
DD026804		0.83	15.7	580	18.1	15.8	<0.001	0.02	0.79	2.5	0.9	0.6	7.4	<0.01	0.08	1.9
DD026805		0.54	20.6	580	16.7	13.0	<0.001	0.01	0.77	2.2	0.9	0.5	9.1	<0.01	0.05	0.9
DD026806		0.53	33.6	830	25.2	16.8	0.001	0.03	0.82	3.6	1.3	0.5	17.6	0.01	0.07	1.4
DD026807		0.43	22.0	940	12.0	10.4	<0.001	0.03	0.90	1.2	1.0	0.5	10.9	<0.01	0.04	0.4
DD026808		0.29	19.3	980	11.3	9.1	<0.001	0.04	0.95	0.8	0.9	0.7	11.9	<0.01	0.04	0.2
DD026809		0.53	36.9	1320	19.2	13.8	<0.001	0.01	0.97	4.5	1.0	0.5	10.0	<0.01	0.03	3.3
DD026810		0.17	27.7	850	12.4	12.3	0.002	0.01	1.42	3.8	1.4	0.4	27.8	<0.01	0.04	1.5
DD026811		0.32	15.4	930	11.1	14.1	<0.001	0.03	0.58	0.8	0.7	0.5	10.9	<0.01	0.04	0.2
DD026812		1.06	22.9	330	23.1	11.5	<0.001	0.01	0.74	3.5	0.9	0.5	7.1	0.01	0.07	3.6
DD026813		0.40	27.6	1070	17.5	17.2	<0.001	0.03	0.78	3.0	0.9	0.5	19.1	0.01	0.05	0.8
DD026814		0.48	20.4	1200	12.2	17.4	<0.001	0.04	0.51	1.8	1.0	0.6	31.4	<0.01	0.04	0.4
DD026815		0.48	23.7	870	15.7	11.0	<0.001	0.03	0.73	2.6	0.8	0.4	8.5	<0.01	0.06	1.1
DD026816		0.34	17.7	830	16.1	13.4	<0.001	0.04	0.83	0.7	0.8	0.6	7.4	<0.01	0.06	<0.2
DD026817		0.29	33.1	240	17.6	10.1	<0.001	<0.01	0.67	6.4	0.9	0.4	20.2	<0.01	0.06	3.6
DD026818		0.44	21.9	680	17.0	11.7	0.004	0.35	0.32	5.5	2.2	0.4	35.7	0.01	0.02	2.0
DD026819		0.41	25.8	1030	15.4	21.7	0.001	0.10	0.33	5.9	1.5	0.5	40.3	0.01	0.04	2.1
DD026820		0.33	14.5	720	13.4	12.2	<0.001	0.04	0.62	0.7	0.7	0.6	8.4	<0.01	0.04	<0.2
DD026821		0.51	24.3	580	16.5	12.2	<0.001	0.01	0.48	3.2	0.6	0.6	22.8	<0.01	0.05	1.5
DD026822		0.56	22.1	1010	24.4	11.8	<0.001	0.04	0.91	1.3	0.9	0.5	10.5	<0.01	0.05	0.3
DD026823		0.63	24.8	1230	20.4	19.7	<0.001	0.08	0.79	4.1	1.1	0.5	28.7	0.01	0.04	1.7
DD026824		0.63	16.5	530	16.6	15.3	<0.001	0.02	0.41	3.1	0.4	0.6	10.9	<0.01	0.04	2.3
DD026825		0.41	26.1	440	30.9	13.5	<0.001	0.01	0.34	3.8	0.6	0.6	11.1	<0.01	0.04	2.8
DD026826		0.46	26.9	410	21.9	13.5	<0.001	0.03	0.46	5.0	0.6	0.5	13.8	<0.01	0.03	3.5
DD026827		0.30	24.3	640	23.3	16.7	0.001	0.09	0.44	5.0	1.0	0.3	17.3	<0.01	0.02	2.9
DD026828		0.59	23.1	490	20.2	13.1	<0.001	0.02	0.53	2.7	0.5	0.5	13.5	<0.01	0.04	1.2
DD026829		0.80	19.0	780	18.1	11.5	<0.001	0.03	0.68	2.8	0.6	0.6	16.4	<0.01	0.04	1.1
DD026830		0.47	20.2	600	19.6	16.6	<0.001	0.03	0.42	4.3	0.5	0.6	24.5	<0.01	0.03	1.6
DD026831		0.49	25.2	680	22.5	11.3	<0.001	0.02	0.71	3.0	0.7	0.4	9.6	<0.01	0.05	1.5
DD026832		0.36	29.0	250	23.7	10.6	<0.001	<0.01	0.65	5.0	0.7	0.5	10.2	<0.01	0.03	3.3
DD026833		0.37	26.2	370	23.9	10.9	<0.001	0.01	0.70	4.0	0.8	0.6	8.8	<0.01	0.04	2.7
DD026834		0.31	18.2	800	26.2	12.0	<0.001	0.03	0.49	3.5	0.5	0.4	10.1	<0.01	0.04	1.5
DD026835		0.78	23.4	730	25.8	11.1	0.001	0.03	0.66	2.1	0.5	0.7	11.8	<0.01	0.03	0.8
DD026836		0.34	29.5	1170	54.1	12.6	0.001	0.13	2.64	3.3	1.6	0.5	38.3	<0.01	0.04	0.8
DD026837		0.40	24.6	1180	162.5	15.6	0.002	0.07	11.75	3.4	0.9	0.4	30.6	<0.01	0.03	1.4
DD026838		0.50	25.3	990	31.3	12.2	0.001	0.07	0.89	6.2	1.2	0.5	32.4	<0.01	0.02	1.7
DD026839		0.62	23.1	1020	67.1	13.0	0.001	0.07	1.85	3.4	0.8	0.5	27.3	<0.01	0.03	1.4
DD026840		0.61	18.6	1110	46.3	7.9	0.001	0.07	1.24	2.3	0.4	0.5	18.9	<0.01	0.03	0.8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026801		0.007	0.21	0.80	47	0.12	5.34	130	0.7
DD026802		0.017	0.19	0.71	54	0.23	4.63	75	<0.5
DD026803		0.006	0.20	1.05	45	0.12	7.96	156	2.3
DD026804		0.014	0.14	0.52	52	0.15	2.63	71	0.6
DD026805		0.014	0.16	0.73	43	0.15	3.96	77	<0.5
DD026806		0.011	0.25	1.87	46	0.22	17.60	94	1.0
DD026807		0.019	0.16	1.35	46	0.23	4.97	105	<0.5
DD026808		0.012	0.22	0.66	61	0.17	6.18	72	<0.5
DD026809		0.008	0.21	0.78	53	0.10	5.79	110	0.7
DD026810		<0.005	0.18	2.22	42	<0.05	9.40	128	0.9
DD026811		0.015	0.17	0.79	47	0.21	4.34	69	<0.5
DD026812		0.015	0.15	0.61	58	0.16	3.07	70	2.5
DD026813		0.008	0.23	1.19	50	0.13	10.95	98	0.9
DD026814		0.020	0.17	0.97	54	0.18	5.78	184	<0.5
DD026815		0.010	0.15	0.78	49	0.14	6.82	88	0.8
DD026816		0.012	0.15	0.64	51	0.14	3.07	81	<0.5
DD026817		0.005	0.15	1.08	48	0.08	16.70	94	1.3
DD026818		0.006	0.15	2.70	31	0.11	17.80	89	2.6
DD026819		0.005	0.16	1.42	39	0.09	17.85	103	3.4
DD026820		0.018	0.15	0.72	49	0.19	3.35	63	<0.5
DD026821		0.014	0.15	0.74	53	0.15	5.89	71	1.0
DD026822		0.016	0.13	0.77	42	0.18	4.34	83	<0.5
DD026823		0.016	0.13	2.52	36	0.15	11.75	205	2.4
DD026824		0.008	0.12	0.62	40	0.10	3.91	64	1.1
DD026825		0.006	0.10	2.10	38	0.08	5.70	82	1.3
DD026826		0.008	0.22	1.92	34	0.13	8.11	122	3.0
DD026827		0.005	0.44	2.73	18	0.06	11.15	215	3.4
DD026828		0.013	0.12	0.65	41	0.17	4.57	81	<0.5
DD026829		0.020	0.17	0.89	51	0.26	4.93	68	0.7
DD026830		0.010	0.11	0.79	38	0.11	9.32	75	1.2
DD026831		0.008	0.15	0.70	42	0.11	5.16	97	0.6
DD026832		0.006	0.13	0.89	36	0.08	6.90	88	0.9
DD026833		0.005	0.16	0.77	46	0.07	6.19	98	0.9
DD026834		<0.005	0.10	0.81	27	0.06	4.87	73	0.8
DD026835		0.012	0.19	0.78	48	0.27	4.10	97	<0.5
DD026836		0.005	0.33	7.55	23	0.08	10.55	825	1.6
DD026837		0.009	0.49	2.21	32	0.14	11.80	646	1.9
DD026838		0.011	0.26	1.58	30	0.27	14.30	182	2.3
DD026839		0.015	1.60	1.51	36	0.15	13.35	271	1.8
DD026840		0.018	0.24	1.93	43	0.24	11.95	275	0.7



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD026841		0.40	0.003	0.12	0.67	45	<0.2	<10	140	0.43	0.12	11.45	0.45	15.40	5.3	11
DD026842		0.38	0.003	0.18	0.96	99.5	<0.2	<10	180	0.53	0.17	5.85	0.58	21.3	8.0	18
DD026843		0.42	0.001	0.11	0.39	93	<0.2	<10	180	0.32	0.10	12.15	0.45	14.50	4.9	9
DD026844		0.40	0.003	0.31	0.66	156.0	<0.2	<10	270	0.50	0.24	7.13	0.83	21.8	10.3	16
DD026845		0.39	0.002	0.22	0.55	62.6	<0.2	<10	190	0.61	0.10	7.74	0.56	12.95	3.9	11
DD026846		0.31	0.001	0.06	0.21	28.4	<0.2	<10	70	0.10	0.16	0.18	0.04	12.40	3.0	6
DD026847		0.33	0.002	0.08	1.48	30.3	<0.2	<10	420	0.68	0.33	0.19	0.21	23.1	8.6	23
DD026848		0.34	0.001	0.03	0.39	26.3	<0.2	<10	170	0.62	0.54	0.11	0.10	8.31	13.7	8
DD026849		0.41	0.001	0.03	0.24	17.9	<0.2	<10	120	0.63	0.28	9.40	0.02	16.85	13.0	5
DD026850		0.28	0.003	0.13	1.71	18.7	<0.2	<10	610	1.34	0.29	0.08	0.45	32.8	27.2	24
DD026851		0.30	0.002	0.10	1.71	9.6	<0.2	<10	490	1.28	0.43	0.24	0.35	11.50	11.4	22
DD026852		0.44	0.003	0.31	0.95	18.4	<0.2	<10	150	1.10	0.35	0.35	0.16	17.85	20.1	15
DD026853		0.33	0.001	0.06	0.98	13.7	<0.2	<10	290	1.68	0.43	0.08	0.06	12.60	24.9	14
DD026854		0.32	0.002	0.12	1.48	10.6	<0.2	<10	350	1.55	0.40	0.33	0.26	14.25	12.2	23
DD026855		0.33	0.002	0.05	1.06	9.1	<0.2	<10	140	1.85	0.59	0.15	0.03	16.40	30.8	19
DD026856		0.23	0.003	0.53	1.13	11.6	<0.2	<10	580	1.11	0.40	0.51	0.26	14.45	9.7	16
DD026857		0.44	0.002	0.22	0.98	8.9	<0.2	<10	290	1.39	0.47	0.31	0.13	20.2	11.2	13
DD026858		0.31	0.001	0.07	1.33	12.8	<0.2	<10	350	1.19	0.47	0.15	0.19	16.10	12.9	17
DD026859		0.34	0.002	0.04	1.99	3.8	<0.2	<10	160	1.82	0.70	0.10	0.09	17.20	20.4	33
DD026860		0.35	0.002	0.03	1.83	12.5	<0.2	<10	150	1.12	0.57	0.03	0.22	17.95	18.5	27
DD026861		0.31	0.001	0.02	1.95	22.7	<0.2	<10	250	1.71	0.53	0.10	0.08	17.00	25.5	31
DD026862		0.31	0.002	0.01	1.10	7.0	<0.2	<10	170	0.45	0.34	0.08	0.11	11.15	10.2	15
DD026863		0.32	0.003	0.03	1.75	21.4	<0.2	<10	160	1.03	0.34	0.10	0.25	28.1	17.2	30
DD026864		0.39	0.001	0.02	1.11	7.6	<0.2	<10	340	1.74	0.46	0.05	0.05	16.45	15.8	31
DD026865		0.43	0.001	0.02	1.50	6.1	<0.2	<10	130	1.37	0.51	0.05	0.10	15.65	21.0	29
DD026866		0.44	0.001	0.04	0.78	6.2	<0.2	<10	90	1.32	0.42	0.04	0.05	6.78	21.4	14
DD026867		0.33	0.001	0.61	1.14	9.9	<0.2	<10	60	0.45	0.30	0.04	0.40	16.30	6.0	15
DD026868		0.40	0.001	0.08	1.39	3.4	<0.2	<10	60	0.41	0.39	0.02	0.16	12.30	8.3	20
DD026869		0.33	0.003	0.04	1.52	15.1	<0.2	<10	160	0.56	0.28	0.09	0.22	27.1	8.5	28
DD026870		0.36	0.003	0.05	0.84	12.8	<0.2	<10	230	1.23	0.42	0.22	0.10	19.20	16.1	14
DD026871		0.36	0.002	0.07	0.48	7.1	<0.2	<10	220	1.20	0.46	0.42	0.10	17.60	10.0	11
DD026872		0.39	0.002	0.19	0.91	41.7	<0.2	<10	350	1.14	0.45	0.98	0.35	16.25	16.6	16
DD026873		0.39	0.003	0.04	1.31	21.3	<0.2	<10	310	0.68	0.33	0.14	0.13	25.2	8.6	22
DD026874		0.24	0.001	0.08	0.74	40.8	<0.2	<10	210	0.58	0.22	0.41	0.20	13.85	7.5	13
DD026875		0.31	0.002	0.08	0.72	180.5	<0.2	<10	120	0.37	0.17	1.02	1.72	14.60	4.9	15
DD026876		0.42	0.002	0.21	0.51	83.6	<0.2	<10	110	0.81	0.17	0.29	0.32	33.0	7.6	12
DD026877		0.34	0.001	0.04	0.69	9.5	<0.2	<10	90	1.67	0.51	0.10	0.11	25.3	15.9	12
DD026878		0.35	0.001	0.06	1.29	59.3	<0.2	<10	140	0.67	0.30	0.05	0.19	20.1	9.3	20
DD026879		0.27	<0.001	0.08	1.12	104.5	<0.2	<10	120	0.61	0.32	0.06	0.15	16.25	8.7	18
DD026880		0.30	0.001	0.10	0.77	34.3	<0.2	<10	870	0.45	0.38	0.06	0.88	19.30	24.9	14

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Plus Appendix Pages  
 Finalized Date: 15- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD026841		0.60	9.8	1.83	1.79	<0.05	0.03	1.23	0.016	0.03	8.4	4.9	6.78	1040	0.61	0.02
DD026842		1.30	16.3	3.00	2.57	0.05	0.05	2.24	0.024	0.05	11.2	6.6	3.38	1440	0.74	0.02
DD026843		1.16	11.4	1.79	1.15	<0.05	0.06	2.68	0.015	0.03	6.6	3.2	7.08	895	0.59	0.02
DD026844		3.58	22.9	3.16	2.01	0.07	0.09	5.88	0.048	0.06	10.6	4.4	4.00	996	1.19	0.02
DD026845		0.64	7.0	2.19	1.19	<0.05	0.05	2.50	0.015	0.03	7.8	2.9	4.45	1160	0.98	0.01
DD026846		3.74	3.9	0.85	1.46	<0.05	<0.02	2.17	0.007	0.05	6.1	0.8	0.03	31	0.39	<0.01
DD026847		4.02	14.5	3.07	5.97	<0.05	<0.02	0.61	0.034	0.06	10.8	10.1	0.24	540	1.80	0.01
DD026848		20.9	32.3	2.36	1.90	<0.05	<0.02	0.16	0.038	0.10	4.2	1.6	0.06	281	0.69	0.01
DD026849		2.32	28.3	3.03	0.78	0.06	0.09	0.75	0.030	0.07	9.3	1.2	4.67	975	0.15	0.01
DD026850		2.22	23.8	5.20	4.76	0.07	0.07	0.20	0.117	0.07	14.8	14.8	0.25	6500	4.87	<0.01
DD026851		2.53	18.1	3.17	5.67	<0.05	0.05	0.14	0.033	0.08	5.0	18.8	0.39	461	0.96	0.01
DD026852		1.86	50.1	3.13	2.67	0.05	0.10	0.08	0.032	0.13	6.9	12.8	0.33	1660	1.71	0.01
DD026853		4.49	32.0	3.82	3.06	0.05	0.03	0.05	0.030	0.10	4.8	19.6	0.38	902	1.23	0.01
DD026854		3.03	32.2	3.45	5.25	<0.05	0.08	0.14	0.037	0.08	6.5	18.2	0.41	473	1.28	0.01
DD026855		3.23	53.2	3.39	4.27	<0.05	0.02	0.06	0.050	0.07	6.3	13.0	0.33	1660	0.68	0.01
DD026856		3.32	33.8	2.93	3.96	<0.05	0.06	0.50	0.035	0.07	7.1	11.2	0.31	380	1.82	0.01
DD026857		3.54	34.0	2.62	3.37	0.05	0.05	0.29	0.039	0.08	9.5	13.7	0.31	287	0.89	0.01
DD026858		2.10	29.3	3.23	4.58	<0.05	0.02	0.07	0.041	0.07	6.9	16.6	0.34	495	0.75	0.01
DD026859		3.50	57.7	4.09	7.63	0.05	0.02	0.06	0.043	0.08	6.8	23.2	0.60	957	0.40	0.01
DD026860		2.83	33.8	4.08	8.13	<0.05	0.04	0.08	0.043	0.08	7.5	20.3	0.38	793	1.43	0.01
DD026861		2.22	40.1	4.61	8.47	<0.05	0.04	0.04	0.046	0.06	6.6	24.9	0.60	1340	0.70	0.01
DD026862		2.37	44.6	2.47	6.36	<0.05	<0.02	0.04	0.033	0.06	5.3	6.5	0.14	1170	1.85	<0.01
DD026863		2.71	33.4	3.45	6.30	0.06	0.02	0.04	0.035	0.06	12.9	20.1	0.48	810	1.68	<0.01
DD026864		2.91	61.7	4.58	4.13	0.05	<0.02	0.02	0.035	0.05	6.8	16.7	0.29	1020	0.77	<0.01
DD026865		5.20	40.9	3.95	5.36	0.05	0.02	0.04	0.038	0.07	6.5	23.6	0.47	1510	0.71	<0.01
DD026866		1.99	64.0	3.69	2.63	<0.05	<0.02	0.04	0.025	0.10	3.0	18.7	0.21	738	0.85	<0.01
DD026867		3.41	16.5	2.84	5.80	<0.05	<0.02	0.07	0.021	0.06	7.8	17.3	0.12	292	1.93	<0.01
DD026868		2.61	10.9	4.28	6.24	<0.05	0.02	0.02	0.019	0.07	5.9	14.7	0.25	487	0.83	<0.01
DD026869		1.63	18.4	3.24	5.61	<0.05	<0.02	0.08	0.030	0.06	12.0	14.9	0.40	336	1.50	0.01
DD026870		2.79	30.3	3.26	3.11	<0.05	<0.02	0.48	0.040	0.07	10.1	15.4	0.18	256	0.92	<0.01
DD026871		1.16	34.8	2.20	1.92	0.05	0.08	0.12	0.039	0.05	8.3	3.6	0.10	184	0.44	0.01
DD026872		3.94	27.7	3.15	2.62	0.05	0.04	0.89	0.037	0.06	7.8	8.7	0.27	490	1.23	0.01
DD026873		2.12	19.4	2.78	4.43	<0.05	<0.02	0.18	0.031	0.04	11.3	11.4	0.29	313	1.17	0.01
DD026874		1.92	10.8	2.61	2.53	<0.05	0.05	0.52	0.030	0.03	5.4	4.4	0.13	581	0.58	0.01
DD026875		1.00	8.9	3.72	2.48	<0.05	0.04	1.62	0.027	0.03	6.4	3.1	0.44	1750	0.56	0.01
DD026876		2.00	12.8	3.08	1.21	0.07	0.03	1.07	0.036	0.03	12.4	2.0	0.04	543	0.45	<0.01
DD026877		3.29	23.0	4.67	1.69	0.05	0.03	0.16	0.062	0.04	7.5	4.9	0.07	492	0.61	0.01
DD026878		2.38	17.8	2.99	4.68	<0.05	<0.02	0.92	0.031	0.04	9.0	12.0	0.23	489	1.37	0.01
DD026879		2.73	16.4	3.43	4.62	0.07	<0.02	0.90	0.035	0.06	7.2	7.5	0.14	610	1.24	0.01
DD026880		16.50	25.4	4.19	4.43	0.09	0.02	0.19	0.035	0.07	7.7	2.5	0.06	7070	1.46	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD026841		0.30	13.2	760	64.6	3.7	0.002	0.04	1.99	1.6	0.4	0.3	69.1	<0.01	0.01	0.7
DD026842		0.39	22.9	1090	95.4	4.6	0.002	0.06	4.93	2.5	0.7	0.4	42.5	<0.01	0.03	0.9
DD026843		0.23	15.4	780	100.0	2.5	0.001	0.02	4.25	2.1	0.7	0.2	147.0	<0.01	0.03	1.8
DD026844		0.26	33.7	1410	369	5.0	0.004	0.06	11.25	4.4	1.3	0.4	98.8	0.02	0.05	2.3
DD026845		0.19	11.5	530	134.0	3.5	0.001	0.03	1.85	3.2	0.7	0.2	47.5	<0.01	0.02	1.2
DD026846		0.12	9.2	250	25.7	5.1	0.001	0.03	4.18	0.8	0.2	0.5	14.5	<0.01	0.03	3.2
DD026847		0.62	18.9	800	34.5	13.8	0.001	0.05	0.81	1.3	0.9	0.8	17.1	<0.01	0.04	0.2
DD026848		0.26	26.9	450	23.1	13.3	0.002	0.02	0.55	2.6	0.3	0.5	14.9	<0.01	0.08	0.5
DD026849		<0.05	24.6	490	70.7	3.9	0.001	0.01	1.05	8.2	0.5	0.4	68.6	<0.01	0.06	4.8
DD026850		0.81	37.9	550	19.1	10.4	0.002	0.03	1.23	7.8	1.9	0.6	17.7	0.01	0.05	3.2
DD026851		0.40	20.8	1030	26.1	15.4	0.001	0.07	0.36	3.5	0.4	0.6	22.0	<0.01	0.02	1.9
DD026852		0.18	32.2	440	36.0	9.2	0.001	0.02	0.79	6.3	0.8	0.4	20.8	<0.01	0.03	3.6
DD026853		0.15	32.7	340	42.1	8.8	0.001	0.02	0.47	3.7	0.4	0.4	23.2	<0.01	0.04	3.2
DD026854		0.36	25.4	660	21.2	15.2	0.001	0.03	0.40	4.7	0.7	0.5	31.7	<0.01	0.03	2.7
DD026855		0.12	31.7	360	42.1	6.9	0.001	<0.01	0.26	5.9	0.6	0.5	20.1	<0.01	0.03	7.0
DD026856		0.31	22.0	810	20.9	11.1	0.002	0.05	0.55	4.0	0.5	0.5	36.2	<0.01	0.04	2.1
DD026857		0.22	24.7	430	22.5	12.4	0.001	0.02	0.38	4.8	0.7	0.4	66.6	<0.01	0.03	3.7
DD026858		0.17	23.2	350	25.0	11.0	0.001	0.01	0.36	4.2	0.2	0.4	20.4	<0.01	0.03	3.3
DD026859		0.19	34.1	310	26.7	10.7	<0.001	0.01	0.18	5.5	0.4	0.6	18.7	<0.01	0.03	5.2
DD026860		0.37	27.4	360	45.3	15.6	0.001	0.01	0.38	4.7	0.5	0.7	11.5	<0.01	0.04	5.3
DD026861		0.24	35.5	270	39.4	9.3	0.001	0.01	0.22	5.5	0.6	0.7	16.2	<0.01	0.02	4.8
DD026862		0.49	9.9	260	11.3	15.0	0.001	<0.01	0.34	3.4	0.3	0.8	7.3	<0.01	0.02	2.8
DD026863		0.73	32.7	630	32.8	11.3	0.001	0.01	0.78	3.7	0.8	0.7	12.9	<0.01	0.03	2.0
DD026864		0.35	23.9	260	20.4	7.9	0.001	<0.01	0.27	4.7	0.5	0.7	17.9	<0.01	0.03	4.8
DD026865		0.54	26.2	500	24.5	10.1	0.001	0.01	0.33	4.1	0.4	0.7	12.5	<0.01	0.04	4.2
DD026866		0.15	32.1	210	27.3	9.5	0.001	<0.01	0.38	3.5	0.4	0.4	31.7	<0.01	0.05	3.2
DD026867		0.99	12.4	570	14.5	14.2	0.001	0.04	0.65	1.6	0.3	0.7	6.8	<0.01	0.05	1.4
DD026868		0.54	13.8	520	10.5	16.2	0.001	0.02	0.37	1.5	0.2	0.5	6.3	<0.01	0.04	2.1
DD026869		0.86	21.3	530	21.3	11.8	0.001	0.02	0.96	2.0	0.6	0.7	10.6	<0.01	0.04	0.7
DD026870		0.33	37.5	330	21.4	11.8	0.001	0.01	0.39	4.2	0.8	0.5	31.1	<0.01	0.03	1.9
DD026871		0.13	17.5	340	19.9	5.7	0.001	0.05	0.22	3.3	0.5	0.6	37.3	<0.01	0.02	2.0
DD026872		0.40	29.0	940	29.6	12.8	0.001	0.09	2.94	4.1	0.9	0.5	31.8	<0.01	0.08	1.0
DD026873		0.50	22.9	460	21.6	9.2	0.001	0.02	0.65	1.6	0.5	0.6	13.0	<0.01	0.04	0.5
DD026874		0.29	17.3	760	69.5	6.1	0.001	0.05	0.45	2.5	0.6	0.5	8.7	<0.01	0.03	1.5
DD026875		0.28	12.9	680	107.0	4.7	0.001	0.06	4.70	2.1	0.7	0.4	11.2	<0.01	0.04	0.7
DD026876		0.07	21.5	330	108.5	4.3	0.001	0.03	1.65	5.3	1.0	0.4	8.5	<0.01	0.02	3.3
DD026877		0.14	34.8	530	28.8	7.5	0.002	0.02	0.35	6.4	0.9	0.7	20.0	<0.01	0.02	3.8
DD026878		0.49	20.5	640	33.4	10.5	0.001	0.03	2.05	1.6	0.6	0.6	8.7	<0.01	0.04	0.6
DD026879		0.29	20.4	900	28.8	15.4	<0.001	0.04	2.08	1.6	0.5	0.7	11.8	<0.01	0.06	0.3
DD026880		0.26	23.7	850	33.0	19.0	<0.001	0.04	1.31	2.4	0.4	0.9	14.6	0.01	0.08	0.5



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti	Ti	U	V	W	Y	Zn	Zr
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026841		0.012	0.20	1.48	19	0.12	8.04	171	0.9
DD026842		0.014	0.44	1.58	28	0.14	12.05	271	1.4
DD026843		0.008	0.40	1.67	13	0.11	8.78	221	1.8
DD026844		0.006	1.04	2.33	21	0.17	15.10	420	2.3
DD026845		0.005	0.26	1.10	19	0.08	13.40	78	1.1
DD026846		<0.005	0.35	0.42	9	<0.05	1.21	51	0.5
DD026847		0.019	0.25	0.82	51	0.23	6.25	115	<0.5
DD026848		0.007	0.08	0.41	19	0.07	3.25	97	<0.5
DD026849		<0.005	0.38	0.89	8	<0.05	13.30	17	4.6
DD026850		0.014	0.36	1.40	74	0.20	31.2	99	1.7
DD026851		<0.005	0.12	0.80	29	0.07	6.05	79	1.1
DD026852		<0.005	0.12	0.68	17	<0.05	12.85	101	2.9
DD026853		0.006	0.07	1.73	14	<0.05	7.75	93	0.8
DD026854		0.005	0.10	1.49	28	0.08	8.30	109	2.0
DD026855		<0.005	0.09	1.14	16	<0.05	7.76	83	0.7
DD026856		<0.005	0.14	1.16	24	0.05	8.13	75	1.4
DD026857		<0.005	0.07	0.99	16	<0.05	13.60	77	1.4
DD026858		<0.005	0.08	0.74	18	<0.05	6.03	80	0.6
DD026859		0.005	0.07	1.03	26	<0.05	6.26	98	1.0
DD026860		0.006	0.14	0.83	38	0.06	5.04	90	1.5
DD026861		0.005	0.10	1.17	29	<0.05	6.81	99	1.4
DD026862		0.008	0.14	0.72	35	0.08	3.29	36	0.5
DD026863		0.018	0.16	1.13	43	0.21	7.37	98	0.5
DD026864		0.013	0.06	1.53	34	0.11	5.67	66	<0.5
DD026865		0.014	0.06	0.97	32	0.13	5.14	79	0.5
DD026866		0.005	0.07	0.87	17	<0.05	5.50	76	<0.5
DD026867		0.014	0.15	0.56	45	0.23	2.65	59	<0.5
DD026868		0.010	0.12	0.49	30	0.09	2.28	49	0.7
DD026869		0.028	0.15	0.82	50	0.27	4.10	98	<0.5
DD026870		0.005	0.11	0.86	24	0.08	8.52	85	<0.5
DD026871		<0.005	0.04	1.07	15	<0.05	6.55	95	1.9
DD026872		0.010	0.22	1.42	25	0.17	10.35	114	1.0
DD026873		0.018	0.16	0.82	39	0.25	6.45	73	<0.5
DD026874		0.005	0.25	0.52	21	0.09	4.71	125	1.1
DD026875		0.010	0.47	0.62	27	0.10	5.75	422	0.9
DD026876		<0.005	0.41	0.67	11	<0.05	15.55	169	1.1
DD026877		<0.005	0.11	0.66	15	<0.05	13.00	149	0.7
DD026878		0.012	0.24	0.73	37	0.16	4.63	90	<0.5
DD026879		0.009	0.28	0.70	37	0.13	3.13	127	<0.5
DD026880		0.012	0.53	0.58	44	0.11	4.03	137	<0.5





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**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD026881		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026882		0.32	0.002	0.05	1.26	41.1	<0.2	<10	310	0.42	0.30	0.18	0.13	19.00	7.2	23
DD026883		0.30	0.001	0.05	0.88	114.5	<0.2	<10	80	0.45	0.40	0.03	0.26	14.55	6.9	16
DD026884		0.31	0.001	0.04	1.74	16.6	<0.2	<10	240	1.37	0.37	0.06	0.16	18.55	9.9	27
DD026885		0.34	0.003	0.11	0.66	16.8	<0.2	<10	240	1.27	0.29	0.97	0.20	26.0	14.4	13
DD026886		0.41	0.003	0.10	1.66	44.9	<0.2	<10	210	1.17	0.35	0.06	0.64	30.1	15.0	23
DD026887		0.35	0.002	0.04	0.61	7.0	<0.2	<10	170	0.78	0.42	0.16	0.11	13.15	10.5	9
DD026888		0.39	0.002	0.06	0.97	10.2	<0.2	<10	180	0.58	0.34	0.24	0.14	15.45	7.1	13
DD026889		0.28	0.002	0.06	1.30	20.7	<0.2	<10	590	0.89	0.31	0.66	0.15	23.9	13.5	18
DD026890		0.37	0.003	0.09	0.93	22.6	<0.2	<10	800	1.01	0.39	0.35	0.21	33.1	16.4	17
DD026891		0.36	0.002	0.08	1.00	56.6	<0.2	<10	630	1.40	0.35	0.32	0.28	18.40	25.1	15
DD026892		0.33	0.003	0.18	1.27	31.7	<0.2	<10	290	0.88	0.30	3.11	0.27	23.2	12.2	21
DD026893		0.29	0.002	0.09	1.66	26.1	<0.2	<10	200	0.61	0.26	4.47	0.28	26.5	9.2	24
DD026894		0.34	0.002	0.20	0.62	67	<0.2	<10	130	0.42	0.13	11.40	0.42	23.1	5.2	13
DD026895		0.34	0.001	0.15	0.37	35.0	<0.2	<10	50	0.48	0.22	0.27	0.45	16.20	7.7	10
DD026896		0.33	0.002	0.04	1.24	11.6	<0.2	<10	100	0.88	0.35	0.09	0.16	25.8	10.0	19
DD026897		0.27	0.002	0.10	0.99	21.6	<0.2	<10	170	0.87	0.37	0.37	0.29	22.8	12.1	15
DD026898		0.35	0.002	0.04	1.07	24.7	<0.2	<10	190	1.02	0.41	0.06	0.13	17.25	17.0	14
DD026899		0.44	0.003	0.09	1.57	17.1	<0.2	<10	170	0.94	0.26	0.13	0.25	31.0	12.8	25
DD026900		0.47	0.002	0.05	0.78	23.8	<0.2	<10	80	0.73	0.43	0.04	0.14	18.45	13.3	11
DD026901		0.29	0.002	0.13	1.03	35.8	<0.2	<10	450	0.57	0.23	6.60	0.32	28.1	9.5	16
DD026902		0.29	0.002	0.10	0.56	39.9	<0.2	<10	100	0.49	0.20	8.85	0.20	16.80	10.9	12
DD026903		0.24	0.002	0.09	0.83	11.7	<0.2	<10	160	0.59	0.38	0.43	0.26	15.30	9.6	18
DD026904		0.32	0.001	0.03	0.39	5.1	<0.2	<10	90	0.18	0.18	0.04	0.07	20.9	11.4	7
DD026905		0.26	0.002	0.15	0.81	17.7	<0.2	<10	170	1.44	0.41	0.34	0.14	20.0	13.8	15
DD026906		0.28	0.002	0.02	1.41	13.6	<0.2	<10	100	0.80	0.34	0.05	0.23	20.3	12.7	26
DD026907		0.28	0.001	0.03	1.78	35.2	<0.2	<10	350	0.60	0.33	0.24	0.09	20.8	10.2	28
DD026908		0.27	0.003	0.22	1.28	306	<0.2	<10	200	0.77	0.17	8.00	0.57	17.95	8.6	19
DD026909		0.29	0.002	0.13	1.27	113.5	<0.2	<10	140	0.73	0.17	9.67	0.59	22.5	8.5	17
DD026910		0.27	0.001	0.08	1.59	93.7	<0.2	<10	150	1.16	0.27	0.34	0.72	28.5	12.9	25
DD026911		0.26	0.004	0.14	1.11	105.0	<0.2	<10	210	0.72	0.20	2.99	2.41	17.95	10.1	19
DD026912		0.24	0.002	0.30	0.58	151.5	<0.2	<10	200	0.91	0.37	1.06	0.62	14.50	10.9	9
DD026913		0.30	0.003	0.10	1.38	25.1	<0.2	<10	220	0.87	0.27	0.32	0.16	22.4	11.0	24
DD026914		0.29	0.002	0.09	1.13	17.1	<0.2	<10	230	0.89	0.32	0.49	0.13	14.85	11.0	19
DD026915		0.24	0.002	0.29	0.53	39.2	<0.2	<10	200	0.87	0.30	1.42	1.90	11.80	10.8	11
DD026916		0.30	0.006	0.45	0.79	155.0	<0.2	<10	110	0.51	0.25	0.07	0.82	12.45	8.2	17
DD026917		0.23	0.003	0.14	1.08	18.7	<0.2	<10	190	0.76	0.27	1.38	0.26	24.1	11.5	20
DD026918		0.31	0.004	0.25	0.61	55.9	<0.2	<10	130	0.65	0.36	0.51	1.58	13.05	8.7	11
DD026919		0.30	0.005	0.15	0.57	22.5	<0.2	10	270	0.99	0.33	1.51	0.46	9.86	6.9	10
DD026920		0.19	0.008	0.24	0.73	58.2	<0.2	<10	310	0.66	0.33	1.08	0.70	11.30	9.2	12
DD026920		0.25	0.009	0.24	1.01	81	<0.2	<10	180	0.94	0.13	11.25	0.49	13.00	6.4	13



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD026881		4.00	15.5	3.20	6.01	0.07	<0.02	0.09	0.028	0.06	8.8	14.8	0.28	411	1.30	0.01
DD026882		3.29	14.3	3.99	2.91	<0.05	<0.02	0.47	0.036	0.04	5.9	3.9	0.11	627	0.89	0.01
DD026883		4.74	16.9	3.95	5.35	<0.05	<0.02	0.07	0.035	0.05	8.0	30.7	0.36	469	1.25	0.01
DD026884		0.59	28.1	4.35	1.58	0.08	0.03	0.49	0.051	0.03	11.9	3.7	0.35	660	0.27	0.01
DD026885		1.57	23.8	4.25	4.69	0.05	0.06	6.43	0.037	0.06	11.3	16.0	0.32	1140	3.26	0.01
DD026886		5.85	27.3	2.26	2.29	<0.05	0.02	0.12	0.022	0.17	5.8	4.7	0.10	333	0.61	0.01
DD026887		2.56	15.1	3.63	3.93	<0.05	0.03	0.57	0.035	0.08	7.0	6.1	0.13	1080	1.02	0.01
DD026888		3.06	21.6	3.23	4.07	0.05	0.07	0.11	0.038	0.10	10.2	10.8	0.32	2640	0.85	0.01
DD026889		4.45	49.0	2.96	2.99	0.07	0.05	0.47	0.037	0.09	18.2	8.1	0.25	1480	0.91	0.01
DD026890		2.68	46.9	4.81	3.92	0.05	0.06	1.15	0.037	0.06	6.2	8.9	0.27	455	1.55	0.01
DD026891		0.80	22.1	3.76	3.71	0.06	0.08	0.85	0.034	0.05	15.1	9.6	1.89	1700	1.00	0.01
DD026892		1.10	14.3	4.01	4.62	0.05	0.03	0.49	0.027	0.05	13.3	9.8	2.68	2350	0.98	0.02
DD026893		0.68	11.5	2.85	1.53	<0.05	0.06	1.90	0.017	0.04	11.0	3.5	6.49	2490	0.43	0.03
DD026894		3.53	12.2	2.25	1.22	<0.05	0.04	1.34	0.033	0.04	5.9	2.3	0.11	480	0.52	0.01
DD026895		3.47	16.6	3.31	4.08	0.05	<0.02	0.21	0.036	0.04	10.7	9.9	0.25	402	1.06	0.01
DD026896		2.47	26.7	3.82	3.03	<0.05	0.02	0.79	0.039	0.05	8.8	6.6	0.15	757	1.15	0.01
DD026897		2.41	33.8	3.35	2.85	<0.05	0.04	0.69	0.037	0.07	7.0	8.1	0.13	489	1.67	0.01
DD026898		1.23	23.3	3.17	4.19	0.05	0.05	0.20	0.033	0.05	13.3	13.0	0.40	645	1.79	0.01
DD026899		1.60	38.8	2.87	2.11	<0.05	0.03	0.36	0.029	0.09	7.5	5.2	0.10	582	0.96	0.01
DD026900		0.52	21.8	4.78	2.83	0.06	0.11	0.71	0.026	0.05	16.0	6.0	3.71	2630	0.78	0.03
DD026901		0.77	13.9	2.48	1.58	0.06	0.07	1.26	0.025	0.03	9.4	3.8	4.99	1500	0.37	0.02
DD026902		3.93	21.5	3.50	3.42	<0.05	0.02	0.06	0.035	0.08	7.2	15.2	0.31	373	1.20	0.01
DD026903		2.84	15.6	2.19	1.82	<0.05	<0.02	0.06	0.025	0.11	9.3	0.8	0.04	911	0.51	0.01
DD026904		12.60	42.7	3.28	2.59	0.07	0.10	0.07	0.036	0.10	15.5	6.4	0.24	509	0.78	0.01
DD026905		6.24	25.3	3.79	4.53	0.05	<0.02	0.06	0.038	0.10	8.9	18.3	0.39	569	1.46	0.01
DD026906		2.12	13.8	3.34	6.74	<0.05	0.02	0.27	0.031	0.05	10.8	16.4	0.37	880	1.10	0.01
DD026907		0.66	19.6	3.46	3.19	0.05	0.06	3.11	0.023	0.06	10.5	11.9	4.66	2320	0.86	0.02
DD026908		0.75	19.7	4.43	3.33	<0.05	0.06	0.85	0.023	0.06	13.3	10.7	5.57	3170	0.74	0.03
DD026909		1.16	18.4	3.96	4.98	<0.05	0.06	0.22	0.037	0.07	10.2	15.4	0.41	1570	1.40	0.01
DD026910		2.03	21.9	3.26	3.27	<0.05	0.05	1.05	0.030	0.06	7.7	10.1	1.39	1490	1.04	0.02
DD026911		5.45	24.4	3.64	1.90	0.06	0.07	6.28	0.039	0.07	6.5	5.8	0.13	378	0.96	0.01
DD026912		3.97	24.9	3.53	4.47	<0.05	0.03	0.10	0.041	0.07	9.4	26.4	0.36	451	1.38	0.01
DD026913		2.36	31.9	3.52	4.01	<0.05	0.02	0.08	0.037	0.07	6.8	20.9	0.25	505	1.32	0.01
DD026914		11.30	35.3	2.94	1.65	<0.05	0.06	2.25	0.041	0.06	5.5	6.3	0.25	393	1.04	0.01
DD026915		2.23	23.2	3.09	3.54	<0.05	<0.02	7.09	0.041	0.06	6.1	7.7	0.14	279	1.82	0.01
DD026916		8.32	23.3	2.86	3.49	0.05	0.05	0.26	0.038	0.06	10.7	16.3	0.36	371	0.95	0.02
DD026917		3.35	25.1	2.94	1.80	0.05	0.05	1.88	0.035	0.06	6.2	7.9	0.16	523	2.78	0.01
DD026918		29.7	32.9	2.63	1.61	<0.05	0.05	1.18	0.043	0.06	5.3	5.5	0.22	378	0.48	0.01
DD026919		12.65	20.8	2.73	2.15	<0.05	0.05	2.45	0.037	0.06	5.7	6.8	0.23	291	0.48	0.02
DD026920		1.07	13.4	4.15	2.63	0.05	0.04	0.43	0.019	0.04	7.1	6.8	6.40	2350	0.66	0.03

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD026881		0.57	17.7	550	17.3	15.2	<0.001	0.04	0.98	2.0	0.4	0.7	14.7	<0.01	0.05	0.4
DD026882		0.60	13.6	550	36.4	8.7	0.001	0.05	1.18	1.2	0.5	0.5	8.1	<0.01	0.05	0.2
DD026883		0.70	22.1	680	17.7	12.2	0.001	0.04	0.76	1.8	0.7	0.6	8.8	<0.01	0.07	0.7
DD026884		0.08	21.0	570	20.5	4.9	0.001	0.03	0.51	8.5	1.7	0.4	33.6	<0.01	0.03	4.2
DD026885		0.38	28.8	620	94.0	12.3	0.001	0.03	3.13	3.9	0.9	0.6	10.4	<0.01	0.05	2.5
DD026886		0.27	17.0	430	15.9	19.6	0.002	0.04	0.42	2.0	0.3	0.6	15.3	<0.01	0.03	1.1
DD026887		0.43	13.4	600	20.3	15.8	0.001	0.04	0.46	2.3	0.5	0.7	11.7	<0.01	0.03	2.0
DD026888		0.39	21.1	860	17.9	17.7	0.001	0.07	0.59	3.1	0.4	0.5	18.6	<0.01	0.04	1.3
DD026889		0.42	29.2	580	26.0	9.4	0.001	0.03	1.89	6.8	0.8	0.5	18.6	<0.01	0.09	2.8
DD026890		0.42	29.0	460	58.0	5.8	0.001	0.04	1.92	4.5	0.7	0.6	12.9	<0.01	0.05	2.8
DD026891		0.36	27.0	530	77.1	6.8	0.001	0.05	2.67	4.1	1.0	0.5	26.7	<0.01	0.05	2.0
DD026892		0.48	18.9	1030	46.6	6.1	0.001	0.07	1.80	2.2	1.0	0.6	22.1	0.01	0.04	0.8
DD026893		0.12	14.0	770	84.5	3.0	0.001	0.07	5.02	2.1	0.9	0.3	40.2	<0.01	0.03	1.0
DD026894		0.14	14.8	350	82.8	3.6	0.001	0.03	0.98	3.1	0.5	0.4	9.0	<0.01	0.02	1.5
DD026895		0.55	23.0	470	24.1	9.3	0.001	0.03	0.63	2.1	0.7	0.7	12.4	<0.01	0.03	0.7
DD026896		0.38	30.8	670	31.8	10.8	0.001	0.04	0.76	2.6	1.0	0.6	22.6	<0.01	0.03	0.9
DD026897		0.25	29.1	220	29.9	13.4	0.001	0.02	0.90	3.9	0.4	0.5	16.8	<0.01	0.04	3.0
DD026898		0.90	33.3	760	22.2	9.7	0.002	0.03	1.07	3.3	1.0	0.5	13.6	<0.01	0.04	3.0
DD026899		0.27	20.8	300	27.3	9.2	0.001	0.02	0.62	2.9	0.6	0.4	17.0	<0.01	0.03	2.9
DD026900		0.30	19.9	1350	110.5	4.2	0.001	0.09	2.93	3.2	1.1	0.5	47.7	0.01	0.09	1.4
DD026901		0.09	17.2	900	70.0	3.0	0.001	0.03	5.50	5.9	1.0	0.5	32.4	<0.01	0.07	3.2
DD026902		0.63	19.5	410	14.9	16.4	0.001	0.03	0.56	3.5	0.4	0.6	22.4	<0.01	0.05	2.5
DD026903		0.17	8.6	300	17.8	11.2	0.001	0.02	0.22	2.8	<0.2	0.4	7.0	<0.01	0.02	4.8
DD026904		0.35	31.1	550	17.3	27.6	0.001	0.04	0.40	6.8	1.5	0.6	25.9	<0.01	0.04	3.4
DD026905		0.99	22.2	350	14.6	15.6	0.001	0.02	0.79	3.2	0.4	0.6	9.7	<0.01	0.05	2.3
DD026906		0.94	16.7	450	36.7	14.3	0.001	0.02	1.11	3.0	0.4	0.8	11.3	<0.01	0.06	2.0
DD026907		0.31	22.2	1460	47.9	6.8	0.001	0.08	4.09	3.0	0.9	0.4	47.3	<0.01	0.05	0.8
DD026908		0.30	18.4	1130	43.0	6.4	0.001	0.07	3.43	3.8	0.7	0.4	33.5	<0.01	0.04	1.4
DD026909		0.64	23.8	500	34.9	13.9	<0.001	0.04	2.07	5.3	0.9	0.6	11.0	<0.01	0.04	2.7
DD026910		0.42	21.0	860	76.6	9.5	<0.001	0.07	5.68	3.0	1.0	0.4	19.8	<0.01	0.02	1.1
DD026911		0.17	26.6	840	70.4	13.4	0.001	0.12	7.66	4.4	1.4	0.5	72.0	<0.01	0.03	2.1
DD026912		0.62	26.2	530	20.1	13.6	0.001	0.03	0.83	4.0	0.7	0.5	25.6	<0.01	0.05	2.0
DD026913		0.53	23.6	430	22.4	12.6	<0.001	0.03	0.56	3.8	0.6	0.5	26.7	<0.01	0.06	1.7
DD026914		0.21	26.1	690	177.5	13.2	<0.001	0.08	4.08	4.6	0.8	0.3	68.7	<0.01	0.05	1.3
DD026915		0.49	19.9	470	959	11.6	<0.001	0.06	35.5	2.5	0.9	0.5	14.9	<0.01	0.04	1.5
DD026916		0.75	25.8	520	18.7	14.3	<0.001	0.05	0.83	4.1	0.7	0.5	70.1	<0.01	0.04	1.8
DD026917		0.18	22.3	890	140.5	7.9	0.001	0.03	9.05	5.0	1.4	0.3	38.1	<0.01	0.11	3.0
DD026918		0.20	19.4	770	42.4	15.9	<0.001	0.11	1.77	4.4	0.9	0.3	66.5	<0.01	0.01	0.9
DD026919		0.30	21.6	780	73.2	12.5	0.001	0.10	4.81	3.2	1.2	0.4	40.2	<0.01	0.01	0.9
DD026920		0.34	15.7	1430	24.4	6.4	0.001	0.06	3.90	2.7	0.6	0.3	65.9	<0.01	0.06	0.7



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026881		0.021	0.14	0.58	52	0.16	3.16	100	<0.5
DD026882		0.016	0.13	0.72	28	0.13	3.13	135	<0.5
DD026883		0.013	0.14	0.71	42	0.20	7.00	85	<0.5
DD026884		<0.005	0.07	1.82	21	<0.05	22.0	74	1.2
DD026885		0.005	0.24	1.01	35	0.11	9.21	462	1.4
DD026886		0.005	0.11	0.61	15	0.05	5.36	53	<0.5
DD026887		0.006	0.10	0.56	27	0.09	4.49	111	0.7
DD026888		0.009	0.17	1.22	30	0.11	6.79	53	1.2
DD026889		0.013	0.18	0.85	27	0.21	16.60	58	1.1
DD026890		0.007	0.34	0.99	28	0.19	5.57	240	1.5
DD026891		0.008	0.26	1.25	32	0.22	13.00	90	1.8
DD026892		0.020	0.25	1.48	46	0.16	9.99	88	0.7
DD026893		0.005	0.29	1.59	18	0.12	11.05	146	1.4
DD026894		<0.005	0.15	0.79	11	0.05	5.71	260	0.9
DD026895		0.016	0.15	0.75	33	0.19	6.91	99	<0.5
DD026896		0.009	0.18	1.00	25	0.16	8.97	156	<0.5
DD026897		<0.005	0.30	0.71	26	0.05	5.60	84	1.0
DD026898		0.023	0.15	1.03	40	0.26	6.87	99	1.2
DD026899		<0.005	0.14	0.76	18	0.06	4.76	87	0.9
DD026900		0.009	0.29	1.90	26	0.13	18.30	82	2.7
DD026901		<0.005	0.20	0.83	22	<0.05	14.20	51	1.7
DD026902		0.012	0.10	0.76	33	0.15	4.31	86	0.7
DD026903		<0.005	0.08	0.53	17	0.05	1.68	39	<0.5
DD026904		0.006	0.13	1.30	21	0.08	28.5	59	2.4
DD026905		0.025	0.11	0.65	42	0.19	2.81	80	<0.5
DD026906		0.016	0.24	0.71	57	0.24	3.94	109	0.5
DD026907		0.011	0.71	1.83	33	0.13	20.0	411	1.5
DD026908		0.010	0.39	2.57	31	0.12	18.55	224	1.9
DD026909		0.013	0.27	1.45	47	0.13	9.79	278	2.0
DD026910		0.010	0.32	2.66	32	0.08	9.39	473	1.4
DD026911		<0.005	1.47	1.81	14	<0.05	10.95	292	1.9
DD026912		0.013	0.15	0.96	43	0.13	8.26	97	1.1
DD026913		0.008	0.13	0.78	38	0.20	6.56	86	0.6
DD026914		<0.005	0.24	1.64	19	<0.05	11.55	951	1.9
DD026915		0.009	0.46	4.11	35	0.14	4.24	415	0.7
DD026916		0.016	0.13	1.06	32	0.16	10.05	104	1.7
DD026917		<0.005	0.35	1.50	23	0.06	11.20	1390	1.7
DD026918		<0.005	0.10	1.68	15	<0.05	12.00	247	1.8
DD026919		<0.005	0.27	1.83	19	0.07	7.73	335	1.5
DD026920		0.013	0.25	2.23	24	0.12	14.20	104	1.1



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026921		0.36	0.002	0.08	0.46	71.8	<0.2	<10	170	0.47	0.48	0.21	0.37	10.85	18.1	11
DD026922		0.29	0.001	0.03	0.98	21.8	<0.2	<10	160	0.52	0.38	0.42	0.09	13.70	7.1	16
DD026923		0.29	0.002	0.15	0.97	21.3	<0.2	<10	700	1.43	0.37	0.71	0.13	23.2	11.0	14
DD026924		0.26	0.001	0.09	0.83	18.6	<0.2	<10	100	1.17	0.42	0.25	0.27	11.55	16.6	12
DD026925		0.29	0.003	0.13	0.80	16.9	<0.2	<10	140	1.38	0.37	0.61	0.27	22.4	13.5	14
DD026926		0.24	0.002	0.10	1.02	10.0	<0.2	<10	120	1.31	0.42	1.05	0.33	14.90	13.4	14
DD026927		0.26	0.002	0.07	1.18	6.6	<0.2	<10	160	0.98	0.47	0.03	0.15	11.05	17.9	16
DD026928		0.36	0.002	0.02	0.77	7.5	<0.2	<10	150	0.89	0.44	0.08	0.09	13.15	15.5	14
DD026929		0.33	0.003	0.08	1.21	23.3	<0.2	<10	270	0.95	0.29	0.13	0.19	22.6	12.7	22
DD026930		0.27	0.003	0.07	0.32	21.5	<0.2	<10	100	0.99	0.41	0.15	0.03	18.05	16.9	6
DD026931		0.33	0.002	0.05	0.45	16.9	<0.2	<10	150	1.24	0.48	0.19	0.08	17.75	21.0	6
DD026932		0.31	0.001	0.05	1.05	13.4	<0.2	<10	190	1.68	0.52	0.07	0.19	18.35	35.7	11
DD026933		0.25	0.002	0.04	0.48	9.3	<0.2	<10	150	0.37	0.25	0.08	0.22	15.70	9.3	10
DD026934		0.33	0.005	0.06	1.28	22.1	<0.2	<10	190	0.86	0.31	0.27	0.14	27.5	11.2	21
DD026935		0.34	0.003	0.08	0.81	69.1	<0.2	<10	300	0.55	0.26	4.07	0.27	15.95	11.6	13
DD026936		0.31	0.004	0.11	0.78	65	<0.2	<10	120	0.42	0.15	11.00	0.50	22.5	7.2	12
DD026937		0.32	0.003	0.09	0.84	38	<0.2	<10	140	0.54	0.17	10.30	0.75	28.6	8.3	13
DD027291		0.45	0.002	0.03	0.16	436	<0.2	<10	240	0.13	0.02	16.70	0.36	3.28	2.6	3
DD027292		0.41	0.001	0.06	0.48	757	<0.2	<10	550	0.21	0.08	6.29	0.70	5.89	4.6	8
DD027293		0.41	0.001	0.07	0.55	271	<0.2	<10	100	0.39	0.07	13.55	0.34	10.55	3.8	8
DD027294		0.38	0.002	0.06	0.37	231	<0.2	<10	70	0.24	0.05	13.55	0.36	6.59	4.5	6
DD027295		0.53	0.004	0.05	0.20	371	<0.2	<10	110	0.17	0.03	14.85	0.44	3.77	2.4	5
DD027296		0.37	0.001	0.07	0.40	99.3	<0.2	<10	60	0.30	0.26	0.06	0.13	13.55	11.6	13
DD027297		0.46	0.005	0.11	0.37	98.2	<0.2	<10	140	0.25	0.18	0.05	0.05	11.40	9.5	14
DD027298		0.51	0.002	0.10	0.29	250	<0.2	<10	170	0.20	0.20	0.11	1.10	12.95	11.2	19
DD027299		0.46	0.003	0.07	0.41	780	<0.2	<10	160	0.20	0.11	2.33	0.22	9.13	9.9	8
DD027300		0.57	0.002	0.04	0.12	729	<0.2	<10	210	0.08	0.08	13.60	0.27	8.53	8.6	6





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026921		8.40	29.2	4.76	2.18	<0.05	<0.02	0.26	0.041	0.07	4.4	2.2	0.08	581	1.75	0.01
DD026922		5.57	17.2	3.12	4.67	<0.05	<0.02	0.04	0.028	0.06	7.3	9.3	0.18	454	1.27	0.01
DD026923		1.90	28.1	4.02	2.42	<0.05	0.06	0.23	0.055	0.06	10.7	6.6	0.12	585	0.90	0.01
DD026924		3.66	35.3	4.10	2.61	<0.05	0.04	0.11	0.042	0.09	4.0	9.3	0.10	619	1.03	0.01
DD026925		0.86	36.2	4.15	2.37	0.07	0.05	0.19	0.058	0.07	9.7	8.1	0.19	528	0.97	0.01
DD026926		2.62	37.1	3.54	3.04	0.05	0.10	0.21	0.044	0.09	6.6	12.8	0.18	521	0.93	0.02
DD026927		4.69	27.0	2.93	4.55	<0.05	0.03	0.04	0.026	0.16	5.3	17.6	0.16	1180	0.45	0.01
DD026928		2.85	31.1	3.86	3.05	<0.05	0.02	0.05	0.034	0.14	6.4	10.3	0.13	740	0.52	0.01
DD026929		2.17	34.0	3.32	3.57	<0.05	<0.02	0.28	0.032	0.09	10.7	14.2	0.34	611	1.13	0.01
DD026930		10.00	32.8	3.56	1.16	<0.05	0.02	0.14	0.030	0.11	8.8	2.5	0.06	648	0.47	0.02
DD026931		15.05	35.4	3.55	1.49	<0.05	<0.02	0.10	0.037	0.13	7.9	3.8	0.07	1320	0.53	0.01
DD026932		29.0	31.2	5.29	3.02	0.05	0.03	0.08	0.056	0.13	6.1	12.1	0.09	3530	0.84	0.01
DD026933		3.42	16.0	1.89	2.34	<0.05	<0.02	0.04	0.026	0.10	6.9	2.1	0.06	1200	0.59	0.01
DD026934		3.77	32.0	3.17	4.52	<0.05	<0.02	0.13	0.035	0.08	10.8	11.6	0.29	820	1.26	0.01
DD026935		1.22	19.8	3.82	2.23	0.05	0.06	1.07	0.030	0.05	8.6	6.0	2.15	1240	0.48	0.02
DD026936		0.51	14.3	3.05	2.04	0.05	0.04	0.82	0.020	0.04	13.2	5.1	6.26	2230	0.55	0.03
DD026937		0.75	15.1	4.02	2.15	0.06	0.04	0.87	0.022	0.04	16.4	4.4	5.59	3710	0.52	0.03
DD027291		0.10	2.7	1.33	0.38	<0.05	<0.02	2.55	<0.005	0.01	2.1	1.3	10.95	1400	0.16	0.03
DD027292		0.49	5.8	1.97	1.40	<0.05	0.02	17.30	0.014	0.02	2.9	2.0	3.96	1420	0.41	0.02
DD027293		0.39	5.8	1.60	1.22	<0.05	0.03	2.78	0.010	0.02	5.4	4.0	8.15	1100	0.47	0.03
DD027294		0.27	4.2	1.18	0.92	<0.05	0.02	1.32	0.005	0.02	3.3	2.7	8.60	1000	0.31	0.03
DD027295		0.29	3.4	0.96	0.60	<0.05	<0.02	4.53	0.008	0.01	1.8	2.7	9.63	828	0.31	0.02
DD027296		2.97	19.4	2.99	1.18	<0.05	<0.02	2.43	0.021	0.06	6.0	1.9	0.06	495	0.79	<0.01
DD027297		2.16	10.9	2.53	1.36	<0.05	0.03	8.72	0.019	0.05	4.6	1.4	0.04	261	0.39	<0.01
DD027298		0.77	17.3	3.75	1.54	<0.05	0.06	12.00	0.030	0.04	5.9	1.2	0.05	537	1.12	<0.01
DD027299		0.73	13.7	1.40	1.31	<0.05	0.07	5.86	0.015	0.05	4.7	2.8	1.31	252	0.48	0.01
DD027300		0.22	10.2	2.42	0.44	<0.05	0.09	11.65	0.016	0.01	5.2	1.0	8.56	1350	0.33	0.02



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 Account: RCM

Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD026921		0.22	31.7	1080	47.2	14.7	0.001	0.03	1.14	1.8	<0.2	0.5	12.2	<0.01	0.09	0.3
DD026922		0.74	14.7	360	14.3	16.0	0.001	0.02	0.49	2.0	0.2	0.6	28.4	<0.01	0.06	0.6
DD026923		0.27	27.0	820	23.2	8.3	<0.001	0.06	0.40	6.0	1.2	0.4	39.2	<0.01	0.07	2.2
DD026924		0.18	26.2	850	28.3	9.7	<0.001	0.05	0.41	3.4	0.4	0.4	14.6	<0.01	0.08	1.5
DD026925		0.32	30.8	640	25.8	6.5	<0.001	0.05	0.55	7.2	1.3	0.4	39.5	<0.01	0.07	2.8
DD026926		0.18	29.7	1000	26.6	15.5	0.001	0.09	0.47	4.9	1.2	0.5	50.9	<0.01	0.07	1.7
DD026927		0.33	17.9	590	24.0	22.3	<0.001	0.03	0.31	2.0	<0.2	0.7	8.2	<0.01	0.01	1.9
DD026928		0.16	22.9	370	21.9	11.1	<0.001	0.03	0.22	2.7	0.3	0.6	16.1	<0.01	0.03	2.9
DD026929		0.51	25.7	450	29.3	9.0	0.001	0.02	1.27	3.2	0.5	0.4	16.1	<0.01	0.04	1.5
DD026930		0.11	23.7	260	20.3	8.6	<0.001	0.03	0.24	3.9	0.8	0.4	29.2	<0.01	0.02	4.7
DD026931		0.11	26.7	370	27.5	11.8	<0.001	0.03	0.29	4.1	0.6	0.5	23.4	<0.01	<0.01	3.6
DD026932		0.31	25.4	680	32.7	24.7	0.001	0.06	0.46	3.9	0.3	0.5	13.1	<0.01	0.06	2.3
DD026933		0.23	11.5	530	14.9	13.7	<0.001	0.04	0.33	1.6	0.3	0.4	8.7	<0.01	0.01	0.6
DD026934		0.45	22.6	610	17.8	15.1	<0.001	0.04	0.80	1.8	0.2	0.5	15.4	<0.01	0.05	0.4
DD026935		0.30	20.3	770	79.4	5.1	<0.001	0.06	2.73	4.6	0.6	0.4	27.3	<0.01	0.04	1.8
DD026936		0.24	14.2	1190	614	4.7	<0.001	0.09	6.42	2.2	0.7	0.2	52.1	<0.01	0.05	0.7
DD026937		0.18	15.9	1420	43.1	4.7	<0.001	0.11	2.67	1.8	1.3	0.3	40.4	<0.01	0.06	0.6
DD027291		0.07	5.3	330	27.5	0.8	<0.001	0.03	7.58	1.4	0.4	<0.2	58.5	<0.01	0.01	0.3
DD027292		0.17	12.0	670	337	3.2	<0.001	0.06	42.4	1.5	0.4	0.2	41.5	<0.01	0.02	0.3
DD027293		0.21	9.7	400	26.9	3.0	<0.001	0.04	6.94	1.9	0.8	0.2	72.5	<0.01	0.01	0.6
DD027294		0.13	6.7	510	14.8	2.5	<0.001	0.05	7.98	1.7	0.4	<0.2	60.6	<0.01	0.01	0.3
DD027295		0.06	6.6	330	30.4	1.4	<0.001	0.03	8.90	2.8	0.4	<0.2	96.2	<0.01	<0.01	0.5
DD027296		0.11	30.2	370	55.0	4.6	0.001	0.02	0.66	3.0	0.4	0.4	12.7	<0.01	0.03	3.7
DD027297		0.08	25.7	420	134.0	4.4	0.001	0.02	2.83	2.4	0.4	0.6	41.6	<0.01	0.02	4.3
DD027298		0.13	31.3	190	206	2.5	<0.001	0.02	5.52	3.9	0.7	0.5	46.1	<0.01	0.02	4.4
DD027299		0.08	20.4	220	174.5	3.2	<0.001	0.02	13.50	2.8	0.3	0.2	43.7	<0.01	0.03	2.4
DD027300		0.12	18.0	380	107.0	0.5	<0.001	0.02	6.90	3.7	0.6	0.2	193.5	<0.01	0.04	1.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12150338**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026921		0.007	0.20	0.88	28	0.08	3.72	158	<0.5
DD026922		0.013	0.17	0.59	42	0.15	2.39	64	<0.5
DD026923		<0.005	0.14	1.98	23	0.06	20.1	85	1.8
DD026924		<0.005	0.07	0.82	18	<0.05	6.62	212	0.9
DD026925		0.005	0.07	1.05	23	0.07	21.4	101	1.8
DD026926		<0.005	0.08	2.73	16	<0.05	16.95	113	2.4
DD026927		0.005	0.16	0.61	20	<0.05	3.31	76	0.7
DD026928		<0.005	0.09	0.71	16	<0.05	3.76	65	<0.5
DD026929		0.020	0.14	1.06	36	0.14	7.65	121	<0.5
DD026930		<0.005	0.18	0.66	9	<0.05	6.60	66	0.9
DD026931		<0.005	0.26	0.73	11	<0.05	9.17	68	0.5
DD026932		0.006	0.19	0.74	22	0.05	7.73	60	0.9
DD026933		0.007	0.08	0.50	21	0.05	3.10	76	<0.5
DD026934		0.016	0.21	0.76	38	0.17	6.43	73	<0.5
DD026935		0.006	0.24	0.86	22	0.10	11.35	153	1.5
DD026936		0.010	0.23	1.58	20	0.15	16.55	292	1.1
DD026937		0.007	0.32	1.94	21	0.07	19.85	253	1.0
DD027291		<0.005	0.99	1.07	5	<0.05	4.19	334	0.5
DD027292		0.008	0.64	1.31	15	0.05	4.39	527	0.6
DD027293		0.008	0.33	1.99	14	0.12	7.47	275	0.8
DD027294		0.006	0.20	1.78	11	<0.05	4.79	160	0.6
DD027295		<0.005	1.32	1.61	8	<0.05	5.34	239	0.8
DD027296		<0.005	0.79	0.69	12	<0.05	4.22	81	<0.5
DD027297		<0.005	1.63	1.63	11	0.06	6.30	114	1.6
DD027298		<0.005	0.83	1.08	19	0.13	4.29	848	3.5
DD027299		<0.005	0.53	1.03	10	0.06	5.13	256	3.4
DD027300		<0.005	0.56	1.91	7	<0.05	5.97	478	4.1



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**CERTIFICATE OF ANALYSIS WH12150338**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12151023**

Project: ATAC- Regional- Area B  
 P.O. No.: R9  
 This report is for 78 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12151023**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842715		0.35	<0.01	0.19	0.34	20	30	0.23	0.01	23.3	2.56	3.81	1.3	4	0.29	2.0
L842716		0.28	<0.01	0.01	0.05	7	10	<0.05	0.01	26.9	0.09	0.76	1.1	6	<0.05	1.1
L842717		0.36	<0.01	0.40	0.07	13	10	0.13	<0.01	24.0	5.50	1.24	1.1	2	0.06	1.7
L842718		0.40	<0.01	0.04	0.16	51	20	0.10	0.01	23.2	0.64	1.41	2.3	7	0.13	1.8
L842719		0.30	<0.01	47.7	0.16	1860	20	0.33	0.04	21.8	215	2.63	0.9	3	0.12	54.0
L842720		0.21	<0.01	0.08	0.07	5	30	0.10	0.01	28.5	0.32	1.03	0.9	2	0.07	1.1
L842721		0.96	<0.01	0.81	3.49	120	340	1.32	0.13	13.10	3.17	39.5	6.6	39	2.80	10.7
L842722		0.47	<0.01	1.18	0.38	60	50	0.22	0.01	22.2	38.2	2.13	1.2	5	0.29	4.1
L842723		0.30	<0.01	2.55	0.21	347	30	0.12	0.01	22.2	36.1	2.12	1.4	4	0.18	3.6
L842724		0.70	<0.01	0.03	0.11	20	10	0.10	<0.01	22.5	0.82	3.46	1.3	4	0.14	1.8
L842725		0.48	<0.01	0.04	0.05	15	10	0.06	<0.01	26.6	0.35	3.42	1.9	7	<0.05	1.0
L842726		0.35	0.06	3.51	1.81	>10000	390	2.68	0.06	1.17	55.8	38.5	22.3	33	7.86	58.8
L842727		1.04	0.02	2.12	5.83	>10000	1380	19.40	0.03	1.24	216	28.3	38.7	26	8.18	36.2
L842728		1.18	<0.01	32.1	1.38	3350	280	1.50	0.07	0.33	208	26.6	1.3	91	2.72	190.0
L842729		1.31	<0.01	1.41	2.69	7240	340	1.22	0.03	0.53	11.40	17.65	1.6	90	2.14	146.0
L842730		0.31	<0.01	1.54	2.62	>10000	560	12.60	0.02	0.17	162.5	28.8	89.4	21	3.49	172.5
L842731		0.24	0.04	3.65	4.56	3740	1360	1.14	0.17	0.42	0.94	49.8	1.8	221	16.55	94.0
L842732		0.83	<0.01	1.16	2.56	253	5660	0.91	0.09	4.41	3.56	27.1	4.4	92	6.25	27.5
L842733		0.84	<0.01	0.60	5.22	>10000	>10000	3.03	0.12	1.51	15.20	40.5	24.2	54	15.65	45.7
L842734		0.64	<0.01	0.32	0.19	124	90	0.10	0.01	35.0	1.53	1.94	1.0	11	0.34	2.5
L842735		0.79	<0.01	0.14	0.27	201	80	0.07	0.01	34.8	0.50	1.53	1.4	5	0.44	2.5
L842736		0.63	<0.01	0.10	0.24	276	40	0.09	0.01	34.4	0.38	1.42	1.6	4	0.41	2.1
L842737		0.14	0.01	1.62	1.14	>10000	2100	4.69	0.06	1.92	21.6	10.80	21.4	22	3.29	104.0
L842738		0.69	<0.01	2.14	1.52	>10000	1130	4.59	0.02	0.84	15.05	5.28	14.0	12	1.77	22.3
L842739		0.45	<0.01	0.22	0.33	383	1340	0.23	0.01	34.8	1.24	2.09	1.5	6	0.56	3.0
L842740		0.40	<0.01	0.31	0.21	398	510	0.34	0.01	33.7	2.46	3.51	1.0	5	0.31	3.5
L842741		0.38	<0.01	0.06	0.07	37	50	0.14	0.01	37.5	0.26	1.62	0.5	<1	0.09	0.7
L842742		0.64	<0.01	0.20	0.65	246	180	0.63	0.02	34.5	19.45	12.30	1.4	4	1.83	3.0
L842743		0.22	<0.01	0.03	0.11	84	60	0.28	<0.01	35.5	0.32	1.21	0.8	4	0.14	1.2
L842744		0.52	0.02	0.12	0.06	111	60	0.23	<0.01	29.1	2.29	1.37	1.2	3	0.14	1.7
L842745		0.25	<0.01	0.13	0.18	112	50	0.30	0.01	37.5	0.48	1.73	0.8	9	0.27	2.0
L842746		0.53	<0.01	0.41	0.50	84	110	0.33	0.02	33.5	1.24	3.87	1.5	17	0.87	4.5
L842747		0.32	0.01	0.16	0.25	181	4910	0.13	0.01	34.5	0.39	2.03	1.1	7	0.44	2.5
L842748		0.45	<0.01	0.01	0.14	93	60	0.20	0.01	36.8	0.15	1.65	1.0	3	0.26	2.1
L842749		0.45	<0.01	0.04	0.02	432	140	0.18	<0.01	36.3	1.10	1.76	1.9	1	<0.05	0.9
L842750		0.99	<0.01	0.24	0.26	934	100	0.14	0.01	37.2	0.51	1.45	1.2	5	0.48	2.3
L842606		0.30	<0.01	0.03	2.34	14.7	360	0.68	0.06	5.99	0.07	44.1	7.7	18	2.67	10.8
L842607		0.45	<0.01	0.04	2.50	40.0	210	0.72	0.10	0.35	0.09	52.8	6.8	43	2.67	11.0
L842608		0.40	<0.01	0.01	0.41	7	40	0.42	0.01	12.65	0.27	6.21	1.6	6	0.16	2.8
L842609		0.48	<0.01	0.03	1.96	7	80	0.46	0.06	23.8	0.02	30.1	2.9	16	1.19	4.5



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**CERTIFICATE OF ANALYSIS WH12151023**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842715		0.16	0.93	<0.05	0.1	0.78	0.005	0.14	1.7	2.6	10.95	67	0.16	0.03	0.6	3.1
L842716		0.07	0.25	0.07	<0.1	0.07	<0.005	0.01	0.7	0.4	9.29	58	0.48	0.02	0.2	5.0
L842717		0.07	0.32	0.10	<0.1	1.57	<0.005	0.02	0.6	0.7	11.25	167	0.18	0.02	0.2	2.3
L842718		0.16	0.54	0.10	0.1	0.3	<0.005	0.06	0.9	0.9	10.80	310	0.23	0.02	0.3	5.4
L842719		0.19	0.89	0.09	0.1	51.9	0.007	0.06	1.3	1.1	7.90	838	0.21	0.01	0.3	2.9
L842720		0.05	0.29	0.09	<0.1	0.23	<0.005	0.02	0.6	0.5	6.11	130	0.09	0.01	0.3	2.9
L842721		2.02	8.29	0.05	1.3	1.03	0.034	0.65	19.6	18.3	5.17	766	1.25	0.28	6.9	19.9
L842722		0.26	1.16	<0.05	0.1	15.1	<0.005	0.16	1.1	2.0	9.58	633	0.56	0.01	0.6	5.1
L842723		0.20	0.74	0.10	0.1	12.4	0.005	0.07	1.2	1.3	10.60	285	0.41	0.02	0.6	5.0
L842724		0.06	0.47	0.16	<0.1	0.28	<0.005	0.04	3.7	0.5	12.40	47	0.27	0.02	0.3	4.7
L842725		0.05	0.34	0.13	<0.1	0.36	0.011	0.01	4.7	0.3	9.82	105	0.08	0.01	0.3	4.1
L842726		40.3	4.55	1.12	0.8	2.86	0.048	0.71	31.6	6.5	0.21	494	234	0.01	3.8	2670
L842727		17.25	2.83	0.43	0.4	1.10	0.032	0.31	38.8	5.7	0.24	188	43.2	0.01	1.8	2100
L842728		5.24	4.64	0.14	0.7	8.9	0.086	0.36	38.1	5.9	0.07	47	74.5	0.01	2.9	96.5
L842729		1.05	3.07	<0.05	0.4	1.83	0.022	0.22	20.6	8.9	0.06	54	6.96	0.01	1.8	61.8
L842730		42.9	1.93	2.02	0.5	1.58	0.019	0.13	25.2	4.8	0.04	1490	259	0.01	1.8	2750
L842731		4.14	12.40	0.17	2.4	14.3	0.048	1.58	35.8	17.8	0.22	18	8.56	0.04	8.8	47.1
L842732		2.20	6.60	0.08	1.2	0.21	0.025	0.70	21.1	11.3	1.16	172	8.07	0.06	4.6	75.6
L842733		26.9	10.15	0.93	1.3	2.47	0.048	1.23	26.7	31.2	0.24	372	53.7	0.08	5.9	1150
L842734		0.19	0.64	<0.05	0.2	0.60	<0.005	0.06	1.6	0.8	0.11	977	0.96	<0.01	0.6	6.3
L842735		0.24	0.87	<0.05	0.1	0.38	<0.005	0.10	1.1	1.3	0.09	661	2.23	<0.01	0.8	10.0
L842736		0.19	0.80	<0.05	0.2	0.34	<0.005	0.09	0.9	1.0	0.08	931	2.39	<0.01	0.7	12.2
L842737		39.5	3.32	1.14	0.7	2.26	0.030	0.30	9.0	4.9	0.08	198	52.5	0.02	2.9	1040
L842738		38.5	2.20	1.04	0.2	3.10	0.022	0.14	6.2	4.7	0.06	243	39.9	0.01	1.4	981
L842739		0.63	0.98	<0.05	0.2	0.72	<0.005	0.12	1.7	1.4	0.09	1060	3.03	0.01	0.8	19.1
L842740		0.57	0.76	0.07	0.1	0.46	0.006	0.07	4.8	1.5	0.07	387	2.84	<0.01	0.6	25.8
L842741		0.06	0.19	0.11	<0.1	0.05	<0.005	0.02	1.3	0.4	0.11	50	0.15	0.01	0.4	3.7
L842742		0.47	1.34	<0.05	0.2	0.20	0.007	0.27	6.6	2.5	0.37	540	0.67	0.01	1.1	14.2
L842743		0.11	0.33	0.05	<0.1	0.21	<0.005	0.05	0.8	0.5	0.87	249	0.16	<0.01	0.4	<0.2
L842744		0.18	0.27	0.07	<0.1	0.18	<0.005	0.02	1.8	0.4	5.94	304	0.27	<0.01	0.2	5.2
L842745		0.14	0.56	0.06	0.1	0.58	<0.005	0.05	1.3	0.7	0.09	523	2.22	<0.01	0.6	4.0
L842746		0.33	1.38	0.06	0.2	0.73	0.007	0.16	2.9	2.2	0.43	566	7.65	<0.01	1.2	17.5
L842747		0.17	0.79	0.05	0.2	0.42	0.005	0.09	1.3	1.1	0.09	682	1.65	0.03	0.8	3.4
L842748		0.13	0.46	0.05	0.1	0.53	<0.005	0.05	1.0	0.7	0.08	292	2.28	<0.01	0.4	6.1
L842749		1.82	0.13	0.08	<0.1	0.21	0.008	<0.01	2.6	0.3	0.10	310	0.62	<0.01	0.3	150.0
L842750		0.23	0.80	0.05	0.2	0.43	0.005	0.10	1.0	1.4	0.11	1030	2.49	<0.01	0.7	5.2
L842606		2.51	5.60	0.13	1.9	0.02	0.022	0.73	19.4	42.1	0.77	794	0.41	0.22	6.1	18.8
L842607		1.69	6.21	0.11	3.0	0.02	0.023	0.86	23.9	30.1	0.24	155	1.12	0.15	11.8	13.8
L842608		2.74	0.95	0.08	0.1	0.01	0.005	0.07	1.9	7.5	5.87	1660	0.42	0.01	0.5	3.5
L842609		5.28	4.64	0.14	0.8	0.01	0.024	0.65	12.8	23.1	1.75	807	0.14	0.06	3.1	5.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842715		60	43.7	5.6	<0.002	0.05	0.76	0.6	1	<0.2	195.0	<0.05	<0.05	0.5	0.016	0.06
L842716		50	6.2	0.3	<0.002	0.01	0.09	0.2	1	<0.2	137.0	<0.05	<0.05	<0.2	<0.005	<0.02
L842717		60	5.6	0.7	<0.002	0.03	0.11	0.2	1	<0.2	136.5	<0.05	<0.05	<0.2	<0.005	0.09
L842718		70	1.7	2.3	0.003	0.02	0.08	0.3	1	<0.2	130.0	<0.05	<0.05	0.2	0.006	0.20
L842719		80	>10000	2.3	<0.002	1.83	54.2	0.3	9	0.8	142.5	<0.05	<0.05	0.3	0.005	1.49
L842720		40	17.7	0.9	<0.002	0.02	0.12	0.2	1	<0.2	137.0	<0.05	<0.05	<0.2	<0.005	0.06
L842721		390	276	42.4	<0.002	0.04	2.60	6.1	1	1.1	133.0	0.45	<0.05	5.6	0.206	1.21
L842722		100	8.5	6.2	0.002	0.28	0.44	0.7	1	0.3	135.0	<0.05	<0.05	0.5	0.012	0.59
L842723		70	303	3.0	<0.002	0.20	1.03	0.5	1	0.2	142.5	<0.05	<0.05	0.4	0.012	0.26
L842724		230	2.8	1.6	<0.002	0.01	0.27	0.3	1	<0.2	107.0	<0.05	<0.05	0.3	0.005	0.10
L842725		80	7.2	0.5	<0.002	0.02	0.07	0.2	1	<0.2	152.0	<0.05	<0.05	0.2	<0.005	<0.02
L842726		1460	1045	30.2	<0.002	0.01	82.5	3.9	4	0.6	57.3	0.19	0.05	2.5	0.085	4.22
L842727		2120	60.7	16.5	0.002	0.01	25.9	3.1	3	0.3	357	0.12	0.05	1.3	0.037	11.65
L842728		1700	4680	16.9	0.008	0.14	68.7	5.4	20	0.6	181.0	0.16	0.10	2.3	0.073	7.11
L842729		3820	12.6	11.0	0.008	0.09	5.30	1.1	2	0.3	526	0.10	0.07	1.1	0.038	2.87
L842730		3120	58.4	7.6	0.006	0.03	34.7	5.8	47	0.2	41.1	0.14	0.11	0.6	0.015	18.35
L842731		550	15.7	88.0	0.021	0.16	4.57	9.5	23	1.5	143.0	0.58	0.09	7.8	0.309	14.75
L842732		1570	17.9	40.4	0.005	0.21	2.60	5.7	5	0.8	501	0.29	0.07	3.9	0.139	1.00
L842733		1210	51.0	59.8	0.003	0.39	24.9	8.2	49	1.4	210	0.35	0.07	4.5	0.156	13.80
L842734		60	24.9	2.8	<0.002	0.01	0.52	42.3	2	<0.2	143.0	<0.05	<0.05	0.3	0.009	0.27
L842735		30	8.4	3.9	<0.002	0.02	0.56	6.3	2	<0.2	100.5	<0.05	<0.05	0.4	0.015	0.64
L842736		30	7.4	3.7	0.003	0.03	0.56	1.8	2	<0.2	88.0	<0.05	<0.05	0.4	0.014	1.43
L842737		670	126.5	13.8	<0.002	0.20	45.0	4.0	5	0.4	164.0	0.12	0.05	0.9	0.053	1.07
L842738		900	26.8	6.6	0.002	0.28	80.8	3.4	5	0.2	366	<0.05	0.09	0.3	0.014	1.50
L842739		60	9.2	4.7	0.007	0.07	1.15	16.4	3	<0.2	93.0	0.05	<0.05	0.3	0.016	0.76
L842740		370	37.4	2.6	<0.002	0.02	2.78	2.3	19	0.4	82.9	<0.05	<0.05	0.5	0.009	0.16
L842741		20	0.8	0.8	<0.002	<0.01	0.10	0.3	1	<0.2	86.1	<0.05	<0.05	<0.2	<0.005	0.03
L842742		230	18.9	10.5	<0.002	<0.01	1.52	2.5	2	0.3	131.5	0.06	<0.05	0.8	0.027	0.15
L842743		30	3.8	2.0	<0.002	<0.01	0.29	0.4	1	<0.2	141.5	<0.05	<0.05	0.2	0.005	<0.02
L842744		80	30.0	0.9	<0.002	0.01	2.07	1.2	1	<0.2	62.4	<0.05	<0.05	<0.2	<0.005	0.62
L842745		130	5.3	2.4	<0.002	0.01	0.38	12.1	2	<0.2	33.0	<0.05	<0.05	0.3	0.008	0.05
L842746		100	25.3	7.4	0.002	0.03	1.48	7.1	4	0.2	45.2	0.07	<0.05	0.5	0.026	0.35
L842747		60	6.7	3.9	<0.002	0.16	0.54	2.6	2	<0.2	136.0	<0.05	<0.05	0.4	0.013	0.25
L842748		40	1.7	2.1	0.004	0.05	0.45	6.9	4	<0.2	31.5	<0.05	<0.05	0.2	0.006	0.16
L842749		30	1.3	0.2	<0.002	0.01	2.42	0.6	2	<0.2	485	<0.05	<0.05	<0.2	<0.005	<0.02
L842750		50	11.1	4.0	0.006	0.08	0.87	9.2	2	<0.2	92.0	0.05	<0.05	0.3	0.013	0.59
L842606		180	10.8	38.7	<0.002	0.01	0.32	4.9	1	0.6	139.0	0.40	<0.05	6.3	0.135	0.09
L842607		90	17.9	40.6	<0.002	0.02	0.43	4.1	1	0.8	21.9	0.72	<0.05	9.5	0.246	0.16
L842608		170	2.9	3.2	<0.002	0.01	0.19	1.7	1	<0.2	136.0	<0.05	<0.05	0.4	0.011	<0.02
L842609		70	5.4	29.3	<0.002	0.07	0.16	3.5	1	0.5	656	0.22	<0.05	3.8	0.079	0.08



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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Pb- OG62	Zn- OG62	As- OG62
	Analyte	U	V	W	Y	Zn	Pb	Zn	As
	Units LOR	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.001	0.001	0.001
L842715		1.6	6	0.5	1.5	293			
L842716		0.5	4	0.1	2.2	8			
L842717		2.9	12	0.1	0.6	264			
L842718		4.2	17	0.5	1.5	45			
L842719		4.8	8	5.4	2.0	>10000	1.555	3.16	
L842720		2.6	3	0.1	0.7	38			
L842721		3.2	87	1.6	12.0	584			
L842722		4.5	12	0.7	1.3	4660			
L842723		3.4	6	0.9	0.8	3760			
L842724		1.4	5	0.1	8.3	76			
L842725		1.4	15	0.1	11.6	37			
L842726		10.0	514	2.6	105.5	>10000		1.565	3.08
L842727		9.8	718	0.7	282	>10000		1.280	2.81
L842728		11.8	1600	3.8	42.5	796			
L842729		24.9	804	0.4	65.3	301			
L842730		58.1	5510	2.3	460	>10000		3.29	1.810
L842731		6.7	202	3.4	25.0	101			
L842732		5.3	266	0.7	29.5	549			
L842733		6.2	316	4.1	49.2	4310			1.760
L842734		4.0	129	0.4	55.6	98			
L842735		3.4	38	0.4	30.9	66			
L842736		3.7	39	0.4	38.4	71			
L842737		3.6	555	8.9	32.0	5550			2.11
L842738		5.3	239	2.3	50.2	7930			2.57
L842739		2.9	88	0.4	72.4	196			
L842740		6.2	33	0.5	11.1	242			
L842741		0.3	3	<0.1	3.1	26			
L842742		1.7	15	0.6	18.4	232			
L842743		0.5	2	0.4	1.4	43			
L842744		2.9	17	0.2	6.9	134			
L842745		4.0	58	0.3	25.0	42			
L842746		2.7	57	0.6	16.8	147			
L842747		2.2	37	0.4	38.3	44			
L842748		5.6	28	0.2	13.8	35			
L842749		0.9	12	0.1	6.0	841			
L842750		3.0	55	0.6	52.3	91			
L842606		1.1	19	0.6	15.7	57			
L842607		2.1	31	0.9	12.9	66			
L842608		0.2	8	0.1	10.8	21			
L842609		0.9	19	0.4	17.0	13			



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Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I357933		0.42	<0.01	0.04	0.94	12	80	0.71	0.03	10.40	0.11	22.6	4.1	13	0.34	3.5
I357934		0.65	<0.01	0.04	1.16	12	110	0.34	0.04	24.0	0.02	26.6	2.7	10	0.61	5.2
I357935		0.55	<0.01	0.04	0.36	15	30	0.20	0.02	34.0	0.08	10.00	2.3	5	0.29	3.7
L842651		0.32	<0.01	0.06	0.29	323	40	0.27	0.01	10.60	4.43	3.55	1.2	24	0.77	6.5
L842652		0.34	<0.01	0.76	0.36	245	80	0.27	0.01	32.1	7.67	7.05	2.2	5	0.77	3.4
L842653		0.34	0.02	2.43	1.84	>10000	1830	12.50	0.03	0.49	144.5	22.8	295	32	2.76	286
L842654		0.47	<0.01	0.28	0.26	99	60	0.16	0.04	34.0	2.40	40.6	1.3	5	0.65	3.7
L842655		0.40	<0.01	0.10	0.45	221	190	0.43	0.01	34.1	2.01	10.40	6.1	8	0.54	6.7
L842656		0.61	0.01	1.20	4.46	1255	1130	1.69	0.15	9.00	9.51	51.9	11.8	74	9.01	43.6
L842657		0.53	<0.01	0.09	0.14	32	150	0.10	0.01	15.95	2.22	5.12	1.4	23	0.36	4.7
L842658		0.37	<0.01	0.08	0.13	44	410	0.07	0.01	13.30	0.69	4.16	0.8	16	0.53	5.4
L842659		0.33	<0.01	0.20	0.08	933	70	1.06	<0.01	34.0	19.45	3.46	6.8	10	0.12	15.5
L842660		0.23	0.01	1.37	1.41	3200	760	1.44	0.09	18.05	1.50	24.6	1.3	113	3.28	104.0
L842661		0.36	<0.01	0.24	0.28	175	90	0.50	0.01	36.0	2.26	2.71	1.1	4	1.08	2.7
L842662		0.98	<0.01	0.61	0.44	>10000	490	1.00	<0.01	0.97	41.4	3.45	25.4	13	0.39	12.3
L842663		0.44	<0.01	0.07	0.19	442	70	0.27	0.01	36.0	3.26	3.61	1.4	5	0.56	2.8
L842664		0.39	<0.01	0.12	0.19	4460	60	0.39	0.01	33.0	1.23	2.91	6.2	4	0.54	2.2
L842665		0.31	<0.01	0.01	0.05	51	70	0.09	<0.01	36.9	0.34	0.72	0.9	2	0.09	1.1
L842666		0.23	<0.01	0.11	0.64	2820	100	1.07	0.02	33.5	8.18	9.33	6.2	8	1.49	4.9
L842667		0.77	0.01	1.69	4.13	1970	600	2.79	0.13	7.31	10.90	45.9	5.6	73	10.45	100.0
L842668		0.29	<0.01	0.20	0.15	567	80	0.26	<0.01	34.3	5.02	1.92	10.4	2	0.28	1.6
L842669		0.30	0.02	0.02	0.19	41	110	0.07	0.04	36.9	0.64	3.61	1.1	3	0.34	1.8
L842670		0.67	<0.01	0.21	1.60	51	500	0.50	0.04	26.7	1.10	26.2	3.2	22	2.11	9.7
L842671		0.49	0.01	1.08	13.35	>10000	320	8.92	0.01	2.30	65.6	10.50	9.0	501	0.88	99.9
L842672		0.29	<0.01	1.15	1.50	>10000	1800	3.99	0.07	0.66	132.5	22.0	75.2	62	2.54	113.0
L842673		0.57	0.01	2.08	2.50	1070	1690	1.11	0.10	0.17	11.15	23.3	2.2	77	6.22	136.5
L842674		1.05	0.02	1.13	4.47	881	1340	1.80	0.19	0.49	13.20	51.1	15.9	81	10.10	80.9
L842675		0.46	0.01	0.08	0.06	167	30	0.11	<0.01	25.5	1.47	1.42	1.3	4	0.08	2.3
L842676		0.32	0.01	0.15	0.30	155	70	0.10	0.01	33.4	0.65	1.74	1.2	5	0.52	2.6
L842677		0.74	<0.01	0.14	0.30	228	60	0.09	0.01	33.4	0.48	1.46	1.1	5	0.54	2.4
L842678		0.55	<0.01	0.07	0.37	300	110	0.10	0.02	35.5	0.54	2.70	1.1	7	0.85	3.1
L842679		0.58	<0.01	0.11	0.22	173	70	0.08	0.01	35.5	0.66	1.08	1.1	5	0.33	1.9
L842680		0.13	0.02	0.95	1.01	>10000	190	2.18	0.02	0.80	14.30	15.85	177.5	12	1.46	15.6
L842681		0.50	0.05	1.16	0.20	289	190	0.20	0.01	33.8	12.75	1.91	1.5	3	0.25	1.6
L842682		0.65	0.03	0.42	0.12	125	70	0.15	<0.01	30.4	4.81	1.65	0.5	3	0.14	1.3
L842683		0.27	0.03	13.10	0.10	2410	70	0.14	0.02	35.4	82.5	1.09	1.6	2	0.16	4.4
L842684		0.35	<0.01	1.01	0.15	262	40	0.24	0.01	33.3	5.93	2.91	0.9	3	0.19	1.3
L842685		0.22	<0.01	0.82	0.11	941	80	0.14	0.01	35.4	4.76	0.96	0.6	5	0.14	1.9





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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12151023**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
I357933		4.40	1.53	0.10	0.5	0.02	0.008	0.14	8.3	4.9	2.89	4040	0.94	0.49	1.3	6.2
I357934		7.44	2.87	0.16	0.5	0.02	0.022	0.37	9.6	23.0	2.23	1300	0.20	0.02	1.9	6.2
I357935		1.40	0.96	0.06	0.2	0.02	<0.005	0.13	4.4	6.5	0.38	169	0.36	0.02	0.7	3.3
L842651		0.63	0.71	0.05	0.1	0.13	<0.005	0.08	2.1	2.9	5.92	483	1.16	0.01	0.5	12.3
L842652		0.43	0.86	0.06	0.1	0.81	<0.005	0.14	4.5	1.9	1.97	97	0.45	0.02	0.8	19.6
L842653		31.5	2.95	1.09	0.5	3.31	0.025	0.20	26.3	4.8	0.19	11250	112.5	0.01	2.1	2540
L842654		0.23	0.96	0.12	0.1	0.06	<0.005	0.12	29.1	1.9	1.56	73	3.97	0.01	0.6	11.6
L842655		0.67	1.12	0.07	0.2	0.07	0.005	0.20	9.7	3.0	0.35	245	2.35	0.02	0.9	40.0
L842656		2.80	11.55	0.18	1.9	1.26	0.044	1.57	31.0	21.6	0.87	356	10.25	0.14	10.5	127.0
L842657		0.23	0.33	0.05	0.1	0.02	<0.005	0.03	9.1	6.5	0.09	50	7.37	0.01	0.6	17.2
L842658		0.24	0.33	0.05	0.1	0.03	<0.005	0.03	6.7	1.2	0.09	41	3.98	0.01	0.5	11.9
L842659		3.36	0.31	0.12	0.1	0.12	<0.005	0.02	5.8	0.5	0.15	237	5.52	<0.01	0.4	164.0
L842660		7.36	7.56	0.19	1.0	0.84	0.033	0.65	18.3	5.8	0.16	136	10.00	0.02	4.0	23.2
L842661		0.28	0.66	0.05	0.1	0.14	<0.005	0.10	1.5	1.1	0.88	387	0.33	<0.01	0.6	9.2
L842662		>50	1.83	1.52	0.1	12	0.029	0.03	3.0	1.3	0.04	226	25.8	0.01	1.7	305
L842663		0.54	0.52	<0.05	0.1	0.10	<0.005	0.05	3.9	1.2	0.15	156	2.05	0.01	0.5	13.7
L842664		4.18	0.51	0.13	0.1	2.71	0.008	0.07	1.9	0.8	0.11	345	4.17	<0.01	0.6	91.9
L842665		0.06	0.18	0.06	<0.1	0.09	<0.005	0.02	<0.5	0.4	0.15	28	0.59	<0.01	0.4	2.3
L842666		2.39	1.50	0.12	0.2	5.64	0.009	0.26	4.6	2.1	0.22	383	4.73	0.01	1.3	53.2
L842667		3.89	10.90	0.21	1.6	3.89	0.044	1.47	27.0	16.7	0.29	85	27.1	0.04	8.4	102.0
L842668		1.24	0.43	0.07	<0.1	1.35	<0.005	0.05	1.1	0.7	1.43	583	1.06	<0.01	0.4	34.1
L842669		0.09	0.47	0.07	0.1	0.14	<0.005	0.08	2.0	0.8	0.33	32	1.24	<0.01	0.6	3.8
L842670		0.88	4.39	0.05	0.5	0.1	0.013	0.88	19.4	8.7	0.50	137	1.62	0.02	2.9	15.8
L842671		3.83	3.03	0.17	0.2	6.5	0.114	0.09	7.1	2.9	0.05	408	23.3	<0.01	0.6	264
L842672		35.2	4.12	1.31	0.6	1	0.084	0.39	18.2	6.2	0.06	4060	1065	0.01	2.5	1450
L842673		4.53	8.35	0.12	0.9	0.6	0.060	0.76	14.5	13.1	0.14	59	95.9	0.01	3.5	46.1
L842674		3.93	12.95	0.15	2.1	2.15	0.050	1.51	30.7	23.1	0.39	443	39.5	0.18	11.3	118.5
L842675		0.19	0.31	0.33	<0.1	0.1	<0.005	0.01	2.6	0.6	8.82	118	0.96	0.01	0.3	6.9
L842676		0.25	0.98	0.08	0.1	0.4	0.005	0.12	1.2	1.6	0.09	777	3.71	0.01	1.0	7.5
L842677		0.23	1.00	0.08	0.1	0.4	<0.005	0.12	1.0	1.5	0.21	759	5.01	<0.01	1.0	9.4
L842678		0.24	1.14	0.11	0.2	0.3	<0.005	0.13	2.6	1.6	0.09	563	2.67	<0.01	1.1	7.4
L842679		0.20	0.77	0.13	0.1	0.48	<0.005	0.09	0.8	1.0	0.10	868	1.90	<0.01	0.8	4.7
L842680		>50	1.50	1.39	0.2	7	0.017	0.12	11.0	1.4	0.04	284	19.00	0.01	1.5	2880
L842681		0.41	0.54	<0.05	0.1	4.44	<0.005	0.07	1.4	2.0	0.11	215	0.37	<0.01	0.6	13.6
L842682		0.12	0.40	0.12	<0.1	1.50	<0.005	0.05	1.2	3.1	0.13	132	0.22	<0.01	0.5	1.6
L842683		0.17	0.43	0.12	<0.1	18.0	0.005	0.04	0.8	0.5	0.15	246	3.02	<0.01	0.5	10.0
L842684		0.15	0.46	0.17	<0.1	1.6	<0.005	0.07	2.1	0.9	1.87	59	1.11	0.01	0.6	4.0
L842685		0.11	0.42	0.17	0.1	1.8	<0.005	0.04	0.7	0.5	0.11	503	0.97	<0.01	0.6	1.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12151023**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
I357933		4400	11.5	7.4	<0.002	0.06	0.25	2.2	1	0.2	1020	0.08	<0.05	1.5	0.029	<0.02
I357934		100	5.7	15.9	<0.002	0.03	0.18	2.4	1	0.3	605	0.14	<0.05	2.4	0.047	0.08
I357935		240	4.2	5.4	<0.002	0.62	0.15	1.2	1	<0.2	1995	<0.05	0.05	0.9	0.014	0.04
L842651		300	5.1	3.9	<0.002	<0.01	0.34	0.5	1	<0.2	121.0	<0.05	<0.05	0.4	0.008	4.78
L842652		300	6.9	5.9	<0.002	0.02	0.65	0.9	1	<0.2	255	<0.05	<0.05	0.6	0.016	0.74
L842653		1890	52.6	10.2	0.003	0.05	67.8	7.9	22	0.2	85.0	0.13	0.14	1.0	0.028	620
L842654		4410	3.7	5.6	0.005	0.02	0.57	1.3	6	<0.2	263	<0.05	<0.05	0.5	0.011	0.44
L842655		470	1.9	8.3	0.004	0.16	1.21	1.4	2	<0.2	633	0.05	<0.05	0.6	0.020	7.62
L842656		1010	154.0	75.3	0.004	0.06	9.05	9.1	7	1.3	217	0.69	0.08	7.5	0.257	5.80
L842657		170	1.2	1.7	0.005	0.03	1.00	1.0	2	<0.2	152.5	<0.05	<0.05	0.2	0.005	0.35
L842658		400	2.6	1.5	0.005	0.02	1.63	0.6	1	<0.2	150.5	<0.05	<0.05	0.2	0.005	0.48
L842659		170	2.7	0.8	0.003	0.01	19.70	2.5	9	<0.2	172.5	<0.05	<0.05	<0.2	<0.005	0.15
L842660		980	81.0	31.5	<0.002	0.47	14.00	6.9	4	0.6	317	0.27	0.09	3.1	0.112	2.19
L842661		260	7.8	4.1	<0.002	0.01	0.91	2.9	1	<0.2	42.7	<0.05	<0.05	0.4	0.011	0.19
L842662		520	2.5	1.5	<0.002	0.18	4.05	4.1	15	<0.2	53.3	<0.05	0.11	0.4	<0.005	0.55
L842663		180	5.6	2.6	0.003	0.01	0.57	5.7	2	<0.2	163.0	<0.05	0.05	0.4	0.008	0.12
L842664		150	7.3	2.8	<0.002	0.12	1.52	1.7	2	<0.2	71.8	<0.05	0.08	0.4	0.008	0.28
L842665		40	2.4	0.8	<0.002	<0.01	0.12	0.4	1	<0.2	133.0	<0.05	0.05	<0.2	<0.005	<0.02
L842666		270	4.9	10.5	0.002	0.03	1.12	3.2	8	0.2	143.5	0.07	0.05	1.1	0.028	0.51
L842667		1360	51.4	66.0	0.002	0.21	12.30	7.9	9	1.2	340	0.56	0.13	6.4	0.196	2.17
L842668		190	6.7	2.1	<0.002	0.01	0.24	0.5	2	<0.2	298	<0.05	<0.05	<0.2	<0.005	0.04
L842669		150	1.1	3.3	0.002	0.01	0.20	0.7	1	<0.2	178.5	<0.05	<0.05	0.3	0.007	<0.02
L842670		1210	5.4	34.8	0.003	0.38	0.69	3.5	2	0.5	330	0.16	<0.05	2.4	0.079	0.27
L842671		>10000	834	2.4	0.004	0.02	18.20	2.4	2	0.2	439	<0.05	0.10	0.4	0.011	82.3
L842672		3540	85.4	19.7	0.003	0.24	146.0	6.3	152	0.4	510	0.13	0.13	2.9	0.057	362
L842673		1070	31.1	40.6	0.002	0.18	74.1	8.1	17	0.8	170.0	0.28	0.20	3.3	0.110	3.43
L842674		1070	47.4	76.6	0.002	0.10	17.15	10.5	11	1.5	157.0	0.79	0.14	7.3	0.282	15.45
L842675		100	13.4	0.6	<0.002	<0.01	4.51	0.7	1	<0.2	138.0	<0.05	<0.05	<0.2	<0.005	0.24
L842676		50	11.0	4.9	0.006	0.03	0.65	2.3	2	<0.2	103.0	<0.05	<0.05	0.4	0.017	1.51
L842677		40	11.2	4.8	0.008	0.03	0.86	1.9	1	<0.2	83.7	<0.05	<0.05	0.4	0.017	1.56
L842678		70	4.0	5.7	0.007	0.03	0.70	3.8	2	<0.2	117.0	0.05	<0.05	0.6	0.020	0.71
L842679		40	8.8	3.4	0.005	0.02	0.44	11.2	3	<0.2	104.5	<0.05	<0.05	0.3	0.012	0.51
L842680		550	11.8	5.0	0.002	0.04	4.88	1.9	17	<0.2	33.5	<0.05	<0.05	0.8	0.014	0.59
L842681		120	51.3	2.7	<0.002	<0.01	1.51	0.5	1	0.3	169.0	<0.05	<0.05	0.3	0.007	0.10
L842682		30	39.7	2.0	<0.002	0.01	0.58	0.3	1	<0.2	201	<0.05	<0.05	0.2	0.005	0.09
L842683		70	5080	1.5	<0.002	<0.01	12.50	0.3	3	0.2	212	<0.05	<0.05	0.2	<0.005	0.38
L842684		210	387	2.6	<0.002	<0.01	1.24	0.4	1	<0.2	128.0	<0.05	<0.05	0.2	0.007	0.10
L842685		40	33.3	1.5	0.002	0.07	0.70	18.2	1	<0.2	106.5	<0.05	<0.05	0.2	0.005	0.31



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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12151023**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Pb- OG62	Zn- OG62	As- OG62
		U	V	W	Y	Zn	Zr	Pb	Zn	As
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	0.001	0.001	0.001
I357933		2.9	14	0.2	16.4	37	24.3			
I357934		0.8	13	0.2	16.1	9	14.9			
I357935		3.6	7	0.1	4.7	24	9.8			
L842651		3.0	54	0.1	3.7	109	4.4			
L842652		1.8	33	0.2	5.0	274	4.6			
L842653		34.8	3800	2.5	239	>10000	24.6		3.12	1.535
L842654		21.6	48	0.1	29.7	213	3.8			
L842655		2.1	83	0.2	11.2	425	6.3			
L842656		5.2	487	1.4	28.8	1040	67.4			
L842657		1.8	74	0.1	10.7	67	5.7			
L842658		1.4	56	0.1	12.6	58	2.8			
L842659		4.7	100	1.4	46.4	1950	4.1			
L842660		4.4	197	3.4	16.9	286	38.9			
L842661		3.2	24	0.5	17.2	136	5.3			
L842662		5.1	144	0.4	25.1	3340	4.9			2.48
L842663		4.0	25	0.3	13.3	76	4.3			
L842664		6.9	17	0.3	8.5	248	3.4			
L842665		5.2	<1	0.1	1.2	16	0.8			
L842666		10.2	28	0.7	12.1	248	9.6			
L842667		6.1	695	5.0	37.3	669	59.9			
L842668		0.9	5	0.2	3.3	982	1.7			
L842669		1.6	8	0.2	1.8	29	2.2			
L842670		3.2	85	0.4	17.6	96	21.7			
L842671		88.2	1290	1.1	74.1	1920	6.0			9.05
L842672		29.0	3400	1.6	183.5	>10000	35.6		1.970	1.185
L842673		8.4	1620	2.3	18.0	395	34.3			
L842674		7.0	749	1.8	35.3	898	75.9			
L842675		2.0	23	0.3	6.1	64	1.2			
L842676		4.0	24	0.5	21.3	105	8.5			
L842677		3.9	20	0.5	23.7	79	9.0			
L842678		4.9	53	0.4	32.3	55	15.0			
L842679		3.0	50	0.4	57.0	69	9.6			
L842680		6.4	90	0.7	65.4	>10000	7.6		2.24	1.770
L842681		1.2	6	0.6	4.6	196	2.9			
L842682		0.7	4	0.3	3.1	57	1.8			
L842683		1.4	6	0.3	3.5	3160	1.5			
L842684		1.6	4	0.4	4.1	237	2.1			
L842685		4.5	34	0.3	25.1	631	3.1			



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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12151023**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	Interference: Mo > 400ppm on ICP- MS Cd, ICP- AES results shown.
ME- MS61	REEs may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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 Account: RCM**

**CERTIFICATE WH12152308**

Project: ATAC- Regional- Area D (Sian)  
 P.O. No.: Soil 12  
 This report is for 189 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67686		0.32	0.005	0.07	1.03	14.3	<0.2	<10	80	0.51	0.28	0.07	0.18	14.05	9.6	18
ZZ67687		0.28	0.002	0.03	1.24	14.8	<0.2	<10	90	0.84	0.30	0.08	0.20	15.15	11.9	19
ZZ67688		0.33	0.002	0.07	1.26	13.5	<0.2	<10	110	0.68	0.31	0.06	0.29	14.50	10.3	19
ZZ67689		0.22	0.002	0.05	1.06	11.9	<0.2	<10	90	0.37	0.29	0.06	0.20	16.50	6.3	19
ZZ67690		0.30	0.003	0.06	1.13	14.2	<0.2	<10	230	0.72	0.25	0.16	0.40	18.50	10.1	19
ZZ67691		0.31	0.002	0.15	1.20	14.8	<0.2	<10	100	0.61	0.26	0.06	0.40	15.50	10.0	19
ZZ67692		0.27	0.002	0.05	1.01	18.4	<0.2	<10	170	0.56	0.31	0.10	0.34	16.55	9.7	18
ZZ67693		0.32	0.003	0.06	1.21	17.8	<0.2	<10	240	0.62	0.23	0.20	1.10	20.3	9.6	22
ZZ67694		0.32	0.002	0.06	0.93	20.3	<0.2	<10	220	0.39	0.29	0.26	0.65	12.50	8.1	19
ZZ67695		0.28	0.001	0.13	0.80	21.1	<0.2	<10	200	0.31	0.26	0.07	0.70	14.15	7.0	18
ZZ67696		0.26	0.003	0.25	1.22	24.9	<0.2	<10	380	0.85	0.27	0.50	2.08	18.45	9.9	20
ZZ67697		0.33	0.004	1.05	0.86	42.8	<0.2	<10	340	0.88	0.34	0.53	5.05	17.90	14.8	18
ZZ67698		0.30	0.003	0.23	0.78	15.0	<0.2	<10	150	1.14	0.38	1.13	0.18	16.90	14.4	13
ZZ67699		0.30	0.003	0.16	0.49	16.5	<0.2	<10	100	1.36	0.40	4.07	0.16	16.50	17.5	9
ZZ67700		0.25	0.003	0.19	0.66	24.1	<0.2	<10	180	1.21	0.35	1.41	0.20	17.65	15.6	12
ZZ67701		0.30	0.002	0.15	0.78	69.3	<0.2	<10	140	0.98	0.39	0.27	0.09	13.45	18.9	13
ZZ67702		0.30	0.002	0.12	0.77	38.0	<0.2	<10	100	0.95	0.40	0.25	0.10	10.15	16.7	14
ZZ67703		0.31	0.003	0.30	0.44	34.3	<0.2	<10	110	0.75	0.26	1.75	0.61	16.20	9.5	10
ZZ67704		0.30	0.003	0.27	1.03	205	<0.2	<10	220	0.55	0.19	3.29	0.85	24.4	9.0	19
ZZ67705		0.28	0.002	0.16	1.12	87.8	<0.2	<10	150	0.31	0.29	0.15	0.32	20.3	6.4	22
ZZ67706		0.29	0.002	0.15	0.84	160.5	<0.2	<10	160	0.36	0.16	9.18	0.57	25.8	7.9	14
ZZ67707		0.29	0.002	0.14	0.81	185.0	<0.2	<10	190	0.53	0.15	9.83	0.79	31.4	7.8	14
ZZ67708		0.29	0.002	0.14	0.68	205	<0.2	<10	170	0.58	0.12	10.65	1.02	18.15	6.2	11
ZZ67709		0.24	0.002	0.07	0.70	89.5	<0.2	<10	250	0.52	0.15	5.80	0.35	17.15	7.5	12
ZZ67710		0.28	0.003	0.18	0.77	150.0	<0.2	<10	210	0.90	0.24	4.14	0.43	20.2	11.9	12
ZZ67711		0.33	0.003	0.10	0.41	23.5	<0.2	<10	180	0.82	0.35	0.22	0.08	28.1	13.7	8
ZZ67712		0.25	0.002	0.14	0.78	76.0	<0.2	<10	220	0.87	0.24	2.71	0.38	15.45	9.0	13
ZZ67713		0.29	0.002	0.07	1.79	9.8	<0.2	<10	70	1.00	0.39	0.03	0.14	14.40	14.6	30
ZZ67714		0.30	0.004	0.05	1.48	6.3	<0.2	<10	140	0.77	0.38	0.13	0.12	17.70	7.9	26
ZZ67715		0.28	0.003	0.02	1.57	10.8	<0.2	<10	50	0.58	0.41	0.03	0.20	17.35	13.1	25
ZZ67716		0.32	0.003	0.03	1.64	12.4	<0.2	<10	90	0.70	0.34	0.06	0.31	25.2	16.4	31
ZZ67717		0.26	0.002	0.02	1.61	10.9	<0.2	<10	160	0.75	0.34	0.05	0.34	19.25	10.4	24
ZZ67718		0.27	0.005	0.07	1.52	12.0	<0.2	<10	310	1.05	0.45	0.28	0.25	13.20	9.0	20
ZZ67719		0.25	0.004	0.25	0.88	12.4	<0.2	<10	180	0.53	0.22	0.15	0.39	26.9	12.8	14
ZZ67720		0.34	0.004	0.48	1.02	12.8	<0.2	<10	530	0.78	0.22	0.38	0.80	33.9	15.0	20
ZZ67721		0.28	0.002	0.37	1.20	13.1	<0.2	<10	220	0.66	0.16	0.42	1.20	47.2	20.9	58
ZZ67722		0.27	0.004	0.31	1.60	14.6	<0.2	<10	310	0.83	0.19	0.22	0.39	56.0	16.7	29
ZZ67723		0.30	0.002	0.11	1.17	16.4	<0.2	<10	210	0.60	0.20	0.05	0.53	33.6	12.7	21
ZZ67724		0.37	0.004	0.29	1.27	15.0	<0.2	<10	470	0.85	0.20	0.30	0.82	48.2	15.6	18
ZZ67725		0.28	0.004	0.41	1.12	17.9	<0.2	<10	220	0.44	0.19	0.22	0.26	27.5	9.2	14



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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67686		3.07	22.5	3.00	3.44	0.05	<0.02	0.08	0.028	0.04	6.1	15.7	0.18	554	1.39	<0.01
ZZ67687		3.69	27.0	3.15	3.32	0.05	0.03	0.08	0.027	0.04	6.5	25.8	0.27	632	1.15	0.01
ZZ67688		2.77	23.9	3.29	3.95	0.05	0.02	0.99	0.029	0.04	6.7	27.1	0.22	558	1.44	<0.01
ZZ67689		2.56	16.7	2.65	4.65	0.06	<0.02	0.05	0.025	0.05	8.1	10.9	0.15	334	2.36	<0.01
ZZ67690		1.57	23.7	3.31	3.38	0.06	0.04	0.12	0.033	0.04	6.5	16.0	0.20	568	2.25	0.01
ZZ67691		1.51	23.7	3.23	3.33	0.05	0.02	0.12	0.036	0.04	6.9	19.7	0.23	355	1.63	<0.01
ZZ67692		1.24	25.4	3.50	3.93	0.06	<0.02	1.59	0.032	0.04	7.0	9.0	0.16	353	1.60	0.01
ZZ67693		1.17	19.2	3.07	4.04	0.06	0.02	0.58	0.033	0.05	7.8	13.0	0.29	445	1.61	0.01
ZZ67694		1.21	20.0	3.71	3.80	0.05	<0.02	0.65	0.035	0.04	5.9	8.1	0.18	325	1.26	0.01
ZZ67695		1.41	19.6	2.52	4.66	0.05	<0.02	1.57	0.029	0.05	7.0	4.4	0.11	380	1.15	<0.01
ZZ67696		2.33	33.4	2.97	4.02	0.07	0.06	1.05	0.040	0.05	8.7	12.2	0.22	857	1.02	<0.01
ZZ67697		2.34	55.0	3.67	3.14	0.08	0.06	10.20	0.044	0.06	7.4	10.0	0.25	691	1.02	0.01
ZZ67698		1.35	46.5	4.01	2.20	0.08	0.07	0.18	0.045	0.06	8.5	12.3	0.18	347	0.81	0.01
ZZ67699		1.26	53.3	4.20	1.32	0.08	0.05	0.11	0.060	0.06	6.8	4.9	0.10	493	0.91	0.01
ZZ67700		1.56	49.0	3.88	1.85	0.09	0.09	0.10	0.059	0.06	9.3	8.4	0.12	448	0.93	0.01
ZZ67701		3.33	47.8	4.31	2.04	0.06	0.05	0.10	0.034	0.06	5.4	19.1	0.21	1120	0.94	0.01
ZZ67702		3.62	42.8	4.32	2.02	0.05	0.04	0.08	0.036	0.05	5.1	18.8	0.20	602	0.88	0.01
ZZ67703		1.35	28.6	2.92	1.37	0.07	0.05	0.70	0.031	0.05	7.3	5.3	0.73	341	1.50	0.01
ZZ67704		1.59	19.0	3.45	2.98	0.05	0.08	3.69	0.033	0.05	12.3	7.3	1.82	950	1.42	0.02
ZZ67705		5.96	13.6	3.20	5.27	0.05	<0.02	5.35	0.030	0.05	9.6	8.6	0.23	441	1.51	0.01
ZZ67706		0.54	18.3	3.57	2.02	0.07	0.07	0.60	0.019	0.04	16.2	4.7	5.16	2140	0.82	0.02
ZZ67707		0.53	16.1	3.16	2.07	0.11	0.05	0.64	0.020	0.03	18.8	5.3	5.70	2120	0.77	0.02
ZZ67708		0.68	12.1	2.69	1.67	0.06	0.04	1.68	0.019	0.03	10.9	5.0	6.22	1620	0.71	0.02
ZZ67709		2.25	12.3	2.61	2.00	0.07	0.04	0.53	0.023	0.04	9.2	4.6	3.41	1300	0.84	0.02
ZZ67710		1.97	19.5	3.47	2.01	0.09	0.08	0.62	0.031	0.06	11.9	5.7	2.43	1100	0.98	0.02
ZZ67711		4.60	22.1	3.10	1.23	0.09	0.04	0.08	0.032	0.07	12.7	2.2	0.08	516	0.56	<0.01
ZZ67712		1.39	22.4	3.00	2.02	0.08	0.07	1.19	0.031	0.05	9.0	5.5	1.34	514	0.70	0.01
ZZ67713		3.31	25.3	4.45	6.95	0.09	0.07	0.04	0.043	0.06	6.1	24.5	0.37	725	1.00	0.01
ZZ67714		3.80	25.2	3.45	7.43	0.09	0.03	0.04	0.034	0.07	8.6	15.6	0.25	521	0.96	0.01
ZZ67715		2.52	26.8	4.20	6.40	0.08	0.03	0.03	0.038	0.06	8.2	19.6	0.33	716	1.51	0.01
ZZ67716		2.49	22.7	3.75	5.64	0.11	0.03	0.04	0.037	0.05	11.5	23.1	0.52	728	1.32	0.01
ZZ67717		3.13	19.3	3.85	5.62	0.09	0.04	0.02	0.035	0.05	8.8	22.2	0.32	516	0.99	0.01
ZZ67718		2.99	17.4	3.19	5.45	0.08	0.13	0.02	0.036	0.10	5.9	14.2	0.28	521	0.87	0.01
ZZ67719		1.41	53.8	4.93	2.69	0.12	0.02	0.10	0.042	0.06	12.1	6.1	0.14	392	5.05	0.01
ZZ67720		1.24	50.3	3.73	3.28	0.13	0.05	0.17	0.034	0.06	16.1	16.4	0.43	428	3.70	0.01
ZZ67721		1.63	45.1	5.23	4.33	0.16	0.04	0.07	0.042	0.07	22.3	19.5	0.62	533	3.47	0.01
ZZ67722		1.40	31.2	4.66	4.03	0.16	0.03	0.07	0.037	0.06	21.5	17.4	0.42	530	2.50	0.01
ZZ67723		1.09	31.3	4.62	3.49	0.11	0.03	0.05	0.039	0.06	13.8	14.4	0.27	377	3.51	0.01
ZZ67724		1.66	42.6	4.19	3.35	0.14	0.03	0.10	0.042	0.08	23.1	15.8	0.24	524	4.79	0.01
ZZ67725		2.15	31.5	3.47	3.71	0.10	<0.02	0.24	0.039	0.08	15.5	3.3	0.12	184	5.78	0.01

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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67686		0.39	20.8	760	31.5	9.0	0.001	0.03	0.66	1.2	0.6	0.5	9.7	<0.01	0.05	0.4
ZZ67687		0.43	28.3	620	48.2	8.1	0.001	0.02	0.81	2.4	0.3	0.4	10.8	<0.01	0.03	1.1
ZZ67688		0.47	24.8	450	51.2	10.1	<0.001	0.01	1.01	2.2	0.4	0.5	10.4	<0.01	0.05	0.9
ZZ67689		0.29	16.4	560	17.7	11.6	<0.001	0.02	0.78	0.6	<0.2	0.7	9.4	<0.01	0.06	<0.2
ZZ67690		0.27	26.6	890	43.5	11.6	0.001	0.02	1.11	2.3	0.5	0.4	19.7	<0.01	0.04	0.9
ZZ67691		0.38	26.1	660	34.8	9.4	<0.001	0.02	0.89	1.9	0.2	0.4	9.9	<0.01	0.06	0.7
ZZ67692		0.63	24.7	360	33.0	10.6	<0.001	0.01	1.25	3.2	<0.2	0.5	13.5	<0.01	0.05	1.8
ZZ67693		0.37	26.0	770	74.1	13.2	<0.001	0.02	1.53	1.8	0.2	0.5	18.6	<0.01	0.04	0.7
ZZ67694		0.38	20.2	550	92.6	8.1	<0.001	0.02	2.58	1.7	<0.2	0.5	20.8	<0.01	0.03	0.4
ZZ67695		0.23	15.1	740	88.5	12.7	0.001	0.03	3.08	0.6	0.2	0.7	10.9	<0.01	0.02	<0.2
ZZ67696		0.47	25.3	1380	156.0	17.4	<0.001	0.08	3.77	2.8	0.5	0.5	30.6	0.01	0.02	1.0
ZZ67697		0.27	37.1	650	812	12.4	0.002	0.04	16.15	5.7	0.7	0.5	38.4	<0.01	0.03	1.8
ZZ67698		0.16	42.6	520	31.9	4.4	<0.001	0.03	0.58	6.8	0.9	0.4	66.7	<0.01	0.12	2.9
ZZ67699		0.07	42.5	740	31.5	3.9	<0.001	0.01	0.40	9.3	0.6	0.3	155.5	<0.01	0.08	5.8
ZZ67700		0.08	41.4	680	34.9	4.3	<0.001	0.04	0.49	8.0	1.3	0.3	60.1	<0.01	0.13	2.7
ZZ67701		0.12	40.6	470	55.7	6.3	<0.001	0.01	0.64	6.0	0.6	0.3	27.2	<0.01	0.12	3.4
ZZ67702		0.18	40.5	370	39.3	6.4	0.001	0.01	0.63	5.1	0.2	0.3	21.8	<0.01	0.06	2.8
ZZ67703		0.15	36.1	660	38.6	3.7	0.001	0.03	1.60	4.7	0.7	0.4	62.9	<0.01	0.02	5.3
ZZ67704		0.37	25.0	890	180.5	6.3	<0.001	0.05	3.43	3.5	1.1	0.4	26.9	<0.01	0.05	1.5
ZZ67705		0.39	17.3	830	251	8.5	<0.001	0.06	3.49	1.1	0.7	0.7	15.1	<0.01	0.05	0.2
ZZ67706		0.32	17.5	1050	67.2	3.8	<0.001	0.07	3.13	2.5	0.9	0.3	36.9	0.01	0.07	0.8
ZZ67707		0.24	13.4	1070	83.4	3.7	<0.001	0.08	3.28	2.1	1.2	0.3	45.5	<0.01	0.06	0.6
ZZ67708		0.25	9.5	1000	66.0	3.2	<0.001	0.08	2.75	1.7	0.8	0.3	70.9	<0.01	0.04	0.4
ZZ67709		0.32	11.4	930	29.0	5.2	<0.001	0.07	1.00	2.1	0.5	0.3	39.7	<0.01	0.03	0.7
ZZ67710		0.32	19.7	880	47.3	5.9	<0.001	0.06	2.44	4.2	0.8	0.3	37.9	<0.01	0.05	1.4
ZZ67711		0.13	24.1	410	35.4	6.3	<0.001	0.01	0.46	4.1	<0.2	0.4	21.3	<0.01	0.02	5.6
ZZ67712		0.27	18.8	800	67.9	6.5	<0.001	0.05	2.46	3.4	0.4	0.4	24.3	<0.01	0.04	1.3
ZZ67713		0.61	19.8	720	37.6	10.6	<0.001	0.03	0.48	3.5	<0.2	0.8	6.8	<0.01	0.05	3.4
ZZ67714		0.40	14.2	890	20.1	16.1	<0.001	0.03	0.36	2.3	0.3	0.8	19.1	<0.01	0.03	1.2
ZZ67715		0.70	19.7	590	30.5	10.6	<0.001	0.01	0.70	3.0	<0.2	0.6	7.8	<0.01	0.06	2.2
ZZ67716		0.89	27.7	440	32.4	8.8	<0.001	0.01	0.85	3.4	0.4	0.6	9.9	<0.01	0.04	3.7
ZZ67717		0.61	17.1	300	26.7	12.0	<0.001	0.01	0.35	3.1	<0.2	0.6	9.3	<0.01	0.03	4.3
ZZ67718		0.27	16.7	1110	26.8	18.1	<0.001	0.03	0.28	3.6	<0.2	0.7	29.8	<0.01	0.03	3.2
ZZ67719		0.20	29.0	1630	19.7	7.5	0.001	0.03	1.47	2.0	0.8	0.4	15.9	<0.01	0.06	0.4
ZZ67720		0.19	37.8	1220	20.9	5.5	0.002	0.01	1.67	5.7	1.1	0.3	31.0	<0.01	0.05	3.7
ZZ67721		0.18	57.1	1760	22.1	6.6	0.002	0.03	2.43	4.9	1.4	0.4	28.6	<0.01	0.05	1.5
ZZ67722		0.61	46.4	1200	16.4	7.5	0.001	0.03	0.99	3.6	0.4	0.5	17.1	<0.01	0.04	1.6
ZZ67723		0.44	31.2	790	17.9	9.5	0.001	0.02	1.31	3.4	0.6	0.4	11.5	<0.01	0.07	1.8
ZZ67724		0.28	36.5	1210	17.2	9.4	0.001	0.01	1.47	4.1	1.2	0.4	21.3	<0.01	0.07	1.9
ZZ67725		0.07	19.8	2100	11.9	11.9	<0.001	0.06	0.92	0.3	0.6	0.6	13.9	<0.01	0.05	<0.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ67686		0.011	0.14	0.68	34	0.19	4.03	80	<0.5	
ZZ67687		0.013	0.10	0.73	31	0.15	6.21	102	1.0	
ZZ67688		0.012	0.10	0.67	37	0.18	5.25	127	0.5	
ZZ67689		0.014	0.14	0.58	47	0.17	3.31	71	<0.5	
ZZ67690		0.007	0.14	1.18	42	0.17	5.75	148	0.7	
ZZ67691		0.010	0.11	0.74	35	0.16	5.14	104	<0.5	
ZZ67692		0.011	0.12	0.71	43	0.18	4.72	155	<0.5	
ZZ67693		0.010	0.12	0.78	45	0.24	4.60	374	<0.5	
ZZ67694		0.013	0.07	0.62	42	0.22	3.23	307	<0.5	
ZZ67695		0.008	0.11	0.51	46	0.20	2.79	228	<0.5	
ZZ67696		0.011	0.11	4.49	34	0.11	10.75	523	1.3	
ZZ67697		0.007	0.10	2.50	26	0.09	11.30	2170	2.0	
ZZ67698		<0.005	0.09	1.09	18	0.08	20.8	133	2.2	
ZZ67699		<0.005	0.07	1.47	16	<0.05	21.3	124	2.9	
ZZ67700		<0.005	0.07	1.33	18	<0.05	25.9	132	2.5	
ZZ67701		<0.005	0.08	1.22	16	<0.05	17.10	122	1.5	
ZZ67702		0.007	0.06	1.29	20	0.08	12.60	122	1.6	
ZZ67703		<0.005	0.28	0.74	20	0.10	14.15	146	2.1	
ZZ67704		0.010	0.57	0.95	35	0.13	13.65	545	2.0	
ZZ67705		0.018	0.72	0.90	46	0.25	3.94	412	<0.5	
ZZ67706		0.010	0.64	1.38	24	0.11	16.50	165	1.8	
ZZ67707		0.010	0.79	1.48	24	0.10	18.35	165	1.0	
ZZ67708		0.009	0.84	1.00	20	0.09	11.55	218	0.7	
ZZ67709		0.010	0.26	1.04	21	0.09	7.75	106	0.9	
ZZ67710		0.007	0.42	0.93	23	0.10	13.20	169	1.7	
ZZ67711		<0.005	0.10	0.95	12	<0.05	7.39	65	1.0	
ZZ67712		0.005	0.38	1.17	20	0.14	11.95	175	1.8	
ZZ67713		0.010	0.12	0.80	35	0.10	5.08	85	1.8	
ZZ67714		0.009	0.10	0.98	35	0.10	10.30	67	0.5	
ZZ67715		0.013	0.12	0.72	39	0.14	3.90	102	0.8	
ZZ67716		0.024	0.12	0.83	38	0.19	4.90	96	0.8	
ZZ67717		0.009	0.11	0.93	34	0.15	4.39	103	1.0	
ZZ67718		<0.005	0.11	0.85	25	0.06	6.47	79	2.8	
ZZ67719		0.008	0.15	1.09	38	0.12	9.47	135	<0.5	
ZZ67720		0.007	0.16	1.18	42	0.06	13.85	152	1.4	
ZZ67721		0.005	0.21	0.91	80	0.05	12.00	199	0.8	
ZZ67722		0.017	0.20	1.14	46	0.20	10.90	103	0.6	
ZZ67723		0.008	0.15	0.83	52	0.12	5.72	109	0.7	
ZZ67724		0.005	0.17	1.16	49	0.11	12.85	139	0.5	
ZZ67725		<0.005	0.24	1.27	45	0.09	5.66	93	<0.5	



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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67726		0.30	0.003	0.13	1.52	10.0	<0.2	<10	140	0.54	0.24	0.07	0.62	27.8	8.7	22
ZZ67727		0.26	0.002	0.21	1.50	11.8	<0.2	<10	150	0.49	0.21	0.05	0.40	32.7	10.3	21
ZZ67728		0.33	0.002	0.10	0.92	13.6	<0.2	<10	90	0.35	0.19	0.04	0.35	23.6	9.5	16
ZZ67729		0.29	0.002	0.10	1.75	14.2	<0.2	<10	130	0.57	0.23	0.07	0.47	39.4	12.9	26
ZZ67730		0.25	0.002	0.12	1.52	13.8	<0.2	<10	160	0.59	0.21	0.08	0.56	38.4	12.7	25
ZZ67731		0.25	0.004	0.73	0.67	28.2	<0.2	<10	140	0.76	0.20	1.44	9.62	18.85	11.0	20
ZZ67732		0.34	0.003	0.12	0.35	22.1	<0.2	<10	120	1.24	0.39	1.79	0.59	19.50	18.7	9
ZZ67733		0.28	0.002	0.13	0.58	140	<0.2	<10	220	0.81	0.09	13.95	0.67	10.10	4.0	8
ZZ67734		0.34	0.003	0.11	1.90	22.1	<0.2	<10	240	0.70	0.29	0.43	0.28	25.4	8.8	28
ZZ67735		0.33	0.002	0.07	1.58	15.3	<0.2	<10	280	0.63	0.25	0.36	0.28	20.6	10.9	22
DD022441		0.21	0.004	0.33	1.49	36.5	<0.2	<10	580	0.74	0.22	1.55	1.40	14.30	5.7	24
DD022442		0.35	0.003	0.28	1.74	17.0	<0.2	<10	710	1.44	0.31	0.67	0.38	26.6	9.6	28
DD022443		0.31	0.002	0.14	1.59	14.2	<0.2	<10	650	0.99	0.29	0.46	0.34	29.3	8.6	25
DD022444		0.17	0.002	0.06	1.26	17.9	<0.2	<10	100	0.44	0.34	0.05	0.24	16.70	10.1	27
DD022445		0.27	NSS	0.59	2.05	11.0	<0.2	<10	680	1.67	0.50	0.45	0.31	17.05	13.0	32
DD022446		0.27	0.002	0.04	2.11	10.6	<0.2	<10	90	0.85	0.67	0.02	0.30	12.95	13.1	34
DD022447		0.20	0.002	0.05	2.02	16.6	<0.2	<10	90	1.24	0.66	0.02	0.19	14.20	19.0	34
DD022448		0.29	0.003	0.05	1.75	9.9	<0.2	<10	240	1.01	0.71	0.17	0.49	14.20	16.8	32
DD022449		0.26	0.002	0.05	1.87	15.0	<0.2	<10	170	1.50	0.58	0.03	0.23	17.95	18.0	29
DD022450		0.26	0.003	0.03	1.86	6.4	<0.2	<10	210	1.74	0.69	0.15	0.06	16.90	18.9	31
DD022451		0.21	0.002	0.05	1.57	18.5	<0.2	<10	290	0.71	0.29	0.24	0.15	19.45	6.7	24
DD022452		0.19	0.001	0.15	1.19	64.6	<0.2	<10	460	0.63	0.35	0.26	0.12	10.40	6.4	17
DD022453		0.27	0.004	0.20	1.10	140.5	<0.2	<10	580	1.08	0.37	0.46	0.54	12.35	8.6	16
DD022454		0.27	0.005	0.22	0.88	162.0	<0.2	<10	370	1.07	0.36	0.32	0.87	15.40	10.8	16
DD022455		0.21	0.001	0.06	1.48	13.6	<0.2	<10	100	0.75	0.41	0.02	0.22	12.55	14.7	26
ZZ69465		0.15	0.002	0.03	2.11	11.6	<0.2	<10	70	0.99	0.55	0.06	0.19	23.0	21.1	35
ZZ69466		0.19	0.002	0.05	0.59	8.0	<0.2	<10	110	1.06	0.47	0.37	0.03	22.5	15.1	11
ZZ69467		0.24	0.002	0.05	1.88	9.0	<0.2	<10	60	1.32	0.60	0.02	0.09	17.90	19.9	31
ZZ69468		0.18	0.002	0.05	2.15	9.2	<0.2	<10	50	1.09	0.64	0.02	0.10	16.85	17.1	36
ZZ69469		0.22	0.002	0.06	1.87	11.0	<0.2	<10	60	1.77	0.64	0.08	0.08	25.0	22.8	34
ZZ69470		0.15	0.002	0.07	1.86	9.3	<0.2	<10	50	1.10	0.65	0.02	0.07	16.75	16.6	33
ZZ69471		0.23	0.002	0.03	1.97	8.5	<0.2	<10	60	1.51	0.70	0.01	0.05	18.35	23.7	33
ZZ69472		0.19	0.002	0.05	1.97	9.5	<0.2	<10	60	1.34	0.68	0.05	0.08	19.70	21.3	32
ZZ69473		0.22	0.002	0.11	1.67	8.5	<0.2	<10	80	1.32	0.58	0.07	0.11	19.55	20.3	29
ZZ69474		0.26	0.002	0.07	1.45	10.6	<0.2	<10	90	0.89	0.56	0.06	0.14	17.50	12.9	26
ZZ69475		0.18	0.004	0.03	1.01	3.1	<0.2	<10	60	0.80	0.63	0.01	0.11	15.15	14.1	15
ZZ69476		0.25	0.001	0.03	0.75	12.7	<0.2	<10	80	0.70	0.56	0.01	0.05	19.70	16.4	11
ZZ69477		0.17	0.002	0.03	1.52	11.6	<0.2	<10	60	0.49	0.50	0.02	0.10	16.90	10.8	23
ZZ69478		0.16	0.002	0.05	1.60	5.7	<0.2	<10	110	1.89	0.50	0.05	0.09	14.85	17.7	23
ZZ69479		0.17	0.002	0.06	1.36	12.0	<0.2	<10	70	0.93	0.39	0.07	0.18	17.85	12.7	23





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67726		1.89	22.8	3.92	4.98	0.10	0.02	0.03	0.034	0.07	14.2	19.5	0.27	335	2.24	0.01
ZZ67727		2.38	28.5	4.04	5.51	0.11	0.02	0.04	0.038	0.07	16.4	11.5	0.26	396	3.15	0.01
ZZ67728		1.51	28.1	3.55	3.90	0.09	<0.02	0.04	0.028	0.07	12.1	4.4	0.13	252	3.89	0.01
ZZ67729		1.61	24.5	4.59	5.61	0.12	<0.02	0.06	0.039	0.08	17.7	15.9	0.37	628	2.64	0.01
ZZ67730		2.02	27.0	4.11	4.78	0.12	0.02	0.06	0.036	0.07	17.4	14.5	0.32	602	2.69	0.01
ZZ67731		0.48	22.1	3.51	2.11	0.09	0.07	7.27	0.036	0.04	8.4	4.8	0.41	648	0.92	0.01
ZZ67732		0.50	44.1	4.33	1.09	0.11	0.06	0.74	0.049	0.05	8.2	2.5	0.09	572	0.78	0.01
ZZ67733		0.51	9.6	1.93	1.03	<0.05	0.04	1.32	0.014	0.03	6.5	3.9	8.24	1260	0.42	0.02
ZZ67734		1.77	15.5	3.43	6.13	0.08	0.02	0.46	0.034	0.07	11.4	14.6	0.49	563	1.64	0.01
ZZ67735		1.85	25.3	3.65	4.84	0.08	0.03	0.06	0.036	0.06	10.1	12.2	0.34	350	3.00	0.01
DD022441		1.04	27.6	2.45	3.76	0.07	0.11	0.46	0.029	0.06	8.7	12.2	0.46	229	1.06	0.01
DD022442		2.47	30.6	3.34	4.74	0.14	0.12	0.21	0.036	0.07	18.4	17.6	0.45	484	1.61	0.01
DD022443		2.46	21.7	3.26	5.36	0.10	0.05	0.09	0.034	0.07	11.0	18.6	0.39	521	1.59	0.01
DD022444		2.10	22.1	3.68	5.23	0.09	<0.02	0.07	0.031	0.06	7.6	12.1	0.30	735	1.84	0.01
DD022445		6.23	43.5	3.66	6.27	0.08	0.31	0.44	0.041	0.12	6.7	47.5	0.47	535	1.59	0.01
DD022446		2.16	27.3	5.09	8.29	0.07	0.07	0.03	0.042	0.04	5.8	20.7	0.37	610	1.15	0.01
DD022447		2.19	37.4	4.66	8.86	0.08	0.07	0.03	0.045	0.05	6.1	29.0	0.48	752	1.15	0.01
DD022448		2.45	38.3	4.83	7.91	0.08	0.05	0.03	0.040	0.06	6.0	20.4	0.45	731	1.14	0.01
DD022449		2.13	37.9	4.37	7.02	0.08	0.06	0.05	0.041	0.06	7.0	25.9	0.44	992	1.20	0.01
DD022450		4.74	39.2	4.49	7.54	0.08	0.09	0.03	0.047	0.08	5.7	33.4	0.57	764	0.55	0.01
DD022451		1.65	14.8	2.91	6.39	0.06	<0.02	0.58	0.027	0.05	9.5	19.2	0.33	320	1.48	0.01
DD022452		3.02	15.5	2.74	5.15	0.05	0.03	1.46	0.026	0.07	5.2	9.6	0.19	451	1.16	0.01
DD022453		3.55	21.8	3.62	3.50	0.07	0.11	5.42	0.035	0.08	6.2	10.1	0.21	364	0.93	0.01
DD022454		3.07	27.7	3.78	2.75	0.08	0.10	7.26	0.036	0.08	8.0	9.6	0.19	504	0.84	0.01
DD022455		3.13	30.5	4.11	4.94	0.07	0.05	0.11	0.034	0.07	5.3	22.1	0.35	827	1.82	0.01
ZZ69465		3.04	35.4	4.92	7.91	0.09	0.08	0.02	0.043	0.08	9.3	45.7	0.47	1060	1.22	0.01
ZZ69466		2.76	42.4	3.29	2.42	0.08	0.08	0.07	0.032	0.19	10.0	5.7	0.09	725	0.53	0.01
ZZ69467		5.23	39.7	4.66	7.70	0.08	0.07	0.04	0.037	0.11	7.1	46.5	0.39	1440	0.77	0.01
ZZ69468		3.47	30.7	5.05	8.99	0.09	0.11	0.04	0.040	0.08	7.2	53.6	0.52	995	0.78	0.01
ZZ69469		4.27	39.4	4.81	8.28	0.11	0.07	0.04	0.051	0.07	9.2	27.4	0.51	1240	0.94	0.01
ZZ69470		4.65	33.1	4.45	7.97	0.08	0.08	0.04	0.044	0.08	6.6	27.5	0.41	1020	0.94	0.01
ZZ69471		4.23	36.9	4.59	8.08	0.09	0.07	0.03	0.044	0.07	6.7	37.8	0.50	1260	0.77	0.01
ZZ69472		4.64	33.8	4.53	8.32	0.09	0.05	0.03	0.043	0.10	7.9	33.3	0.48	1180	0.76	0.01
ZZ69473		3.71	34.9	4.10	6.78	0.09	0.04	0.04	0.036	0.15	8.1	35.2	0.42	991	0.72	0.01
ZZ69474		2.29	34.0	4.13	6.45	0.07	0.04	0.03	0.040	0.08	7.7	15.6	0.28	677	0.91	0.01
ZZ69475		4.61	43.8	3.95	4.03	0.08	0.03	0.04	0.026	0.17	7.1	15.9	0.13	536	0.52	0.01
ZZ69476		1.02	55.7	4.76	2.80	0.08	0.02	0.55	0.052	0.06	9.5	3.4	0.07	532	0.67	0.01
ZZ69477		1.79	27.8	4.95	6.25	0.07	0.03	0.09	0.037	0.05	6.8	17.1	0.22	540	0.95	0.01
ZZ69478		11.90	15.3	5.13	5.35	0.08	0.05	0.12	0.031	0.11	6.4	26.9	0.23	833	1.16	0.01
ZZ69479		3.08	21.1	4.43	5.18	0.08	0.02	1.03	0.032	0.08	7.6	14.7	0.27	668	1.24	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67726		0.57	17.5	1090	17.1	12.6	<0.001	0.02	0.85	1.5	<0.2	0.6	9.8	<0.01	0.05	0.6
ZZ67727		0.49	21.7	1330	16.0	11.5	<0.001	0.03	1.07	2.3	0.4	0.6	12.0	<0.01	0.06	0.7
ZZ67728		0.28	24.6	1180	14.7	10.7	<0.001	0.02	1.39	1.4	0.5	0.5	10.5	<0.01	0.06	0.4
ZZ67729		0.43	23.3	1440	17.1	12.0	<0.001	0.04	1.02	1.1	0.4	0.6	11.4	<0.01	0.05	0.3
ZZ67730		0.25	24.7	1430	18.8	12.5	0.001	0.03	1.13	1.1	0.5	0.6	10.3	<0.01	0.04	0.3
ZZ67731		0.31	31.8	470	813	3.7	<0.001	0.04	11.70	5.6	0.8	0.4	51.4	<0.01	0.05	2.0
ZZ67732		0.14	38.0	620	42.1	2.5	<0.001	0.03	0.77	8.4	0.5	0.3	126.5	<0.01	0.08	4.6
ZZ67733		0.14	6.5	610	23.3	4.6	<0.001	0.04	0.72	1.9	0.6	<0.2	70.2	<0.01	0.03	0.7
ZZ67734		0.70	20.7	780	23.4	12.9	<0.001	0.03	0.94	2.1	0.4	0.7	14.3	<0.01	0.04	0.7
ZZ67735		0.46	27.8	760	21.6	12.5	0.001	0.02	1.24	2.5	<0.2	0.6	13.6	<0.01	0.04	1.1
DD022441		0.62	20.4	2210	12.3	11.6	0.001	0.21	0.98	3.0	1.2	0.4	38.6	0.01	0.04	1.4
DD022442		0.61	23.7	1720	26.8	15.3	0.001	0.09	0.92	5.2	1.9	0.5	24.5	0.01	0.05	1.7
DD022443		0.63	19.3	1190	22.7	13.6	<0.001	0.05	0.77	2.9	0.4	0.6	22.7	0.01	0.04	1.0
DD022444		0.38	18.4	840	20.6	13.5	<0.001	0.04	0.88	1.3	<0.2	0.6	9.1	<0.01	0.05	0.4
DD022445		0.26	31.4	620	30.7	20.5	<0.001	0.06	0.49	8.5	0.9	0.6	43.4	0.01	0.04	4.5
DD022446		0.46	20.0	730	23.2	10.3	<0.001	0.04	0.28	3.4	0.3	0.6	7.5	<0.01	0.06	2.8
DD022447		0.33	26.8	620	32.1	12.0	<0.001	0.04	0.31	4.2	0.4	0.7	8.4	<0.01	0.05	2.9
DD022448		0.32	24.2	740	27.9	16.3	<0.001	0.05	0.28	3.7	0.3	0.5	17.0	<0.01	0.04	2.4
DD022449		0.34	26.6	730	38.3	10.6	<0.001	0.04	0.43	3.7	0.5	0.5	8.7	<0.01	0.05	2.4
DD022450		0.21	33.2	420	20.9	10.9	<0.001	0.03	0.22	6.2	0.2	0.5	30.9	<0.01	0.04	4.3
DD022451		0.52	16.6	490	19.8	9.3	<0.001	0.03	0.71	1.3	0.4	0.6	13.7	<0.01	0.04	0.3
DD022452		0.32	11.8	1000	29.3	17.5	<0.001	0.04	1.13	1.8	0.2	0.6	18.8	<0.01	0.03	0.7
DD022453		0.27	19.6	880	72.8	16.5	<0.001	0.06	2.49	4.5	0.5	0.5	26.1	<0.01	0.04	2.1
DD022454		0.22	25.3	630	98.5	13.0	0.001	0.04	2.77	5.5	0.8	0.4	24.4	<0.01	0.05	2.8
DD022455		0.42	23.4	620	22.9	11.8	<0.001	0.05	0.66	2.7	0.4	0.6	6.0	<0.01	0.05	2.2
ZZ69465		0.64	31.1	470	44.5	13.7	<0.001	0.03	0.57	4.1	0.4	0.8	12.5	<0.01	0.05	4.7
ZZ69466		0.16	25.0	400	19.2	14.1	<0.001	0.04	0.25	4.3	0.4	0.5	24.5	<0.01	0.04	4.4
ZZ69467		0.33	29.3	670	39.6	15.3	<0.001	0.05	0.36	3.8	0.5	0.8	11.7	<0.01	0.04	3.5
ZZ69468		0.41	28.7	700	36.9	11.2	<0.001	0.06	0.34	3.7	0.4	0.8	10.5	<0.01	0.05	3.8
ZZ69469		0.30	32.5	690	50.3	9.5	<0.001	0.04	0.36	5.3	0.6	0.7	14.4	<0.01	0.06	3.1
ZZ69470		0.37	23.5	820	35.0	12.4	<0.001	0.06	0.37	4.2	0.5	0.7	10.7	<0.01	0.06	3.1
ZZ69471		0.30	30.1	450	36.2	10.5	<0.001	0.03	0.31	4.6	0.4	0.7	11.6	<0.01	0.05	4.0
ZZ69472		0.34	28.4	520	36.4	13.0	<0.001	0.03	0.31	4.2	0.4	0.8	15.3	<0.01	0.04	3.4
ZZ69473		0.33	31.3	420	29.5	14.5	<0.001	0.04	0.32	4.0	0.5	0.7	24.3	<0.01	0.04	3.8
ZZ69474		0.39	20.9	680	25.3	13.6	<0.001	0.05	0.36	3.2	0.3	0.7	16.7	<0.01	0.04	2.0
ZZ69475		0.32	18.7	570	21.1	19.8	<0.001	0.03	0.29	2.5	0.2	0.6	11.8	<0.01	0.06	2.0
ZZ69476		0.14	24.2	270	27.4	8.7	<0.001	0.02	0.26	4.9	0.2	0.4	36.7	<0.01	0.03	4.6
ZZ69477		0.53	19.2	510	26.5	14.9	<0.001	0.03	0.44	3.2	0.2	0.6	12.4	<0.01	0.05	2.6
ZZ69478		0.54	21.5	750	30.9	17.5	<0.001	0.04	0.57	4.3	0.4	0.5	17.0	0.01	0.06	3.5
ZZ69479		0.63	22.0	660	29.5	12.3	<0.001	0.05	0.63	2.9	0.5	0.5	10.3	<0.01	0.06	1.1



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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ67726		0.014	0.11	0.65	55	0.19	3.81	77	<0.5	
ZZ67727		0.012	0.14	0.70	68	0.15	4.83	113	0.5	
ZZ67728		0.008	0.14	0.61	49	0.11	2.96	134	<0.5	
ZZ67729		0.016	0.15	0.99	57	0.17	6.34	116	<0.5	
ZZ67730		0.012	0.16	0.89	52	0.16	7.20	125	<0.5	
ZZ67731		0.007	0.05	0.96	37	0.13	12.60	2380	1.5	
ZZ67732		<0.005	0.05	0.82	18	0.08	15.90	224	1.8	
ZZ67733		<0.005	0.15	1.40	11	0.05	7.75	114	1.0	
ZZ67734		0.020	0.28	1.17	52	0.25	5.35	107	<0.5	
ZZ67735		0.009	0.25	0.79	54	0.16	4.66	122	0.7	
DD022441		0.015	0.12	9.84	33	0.09	10.45	205	2.9	
DD022442		0.014	0.18	5.91	41	0.16	44.0	120	2.2	
DD022443		0.015	0.14	1.74	47	0.22	12.10	99	0.8	
DD022444		0.014	0.11	0.74	42	0.16	3.50	94	<0.5	
DD022445		<0.005	0.20	1.36	35	0.07	19.50	162	9.0	
DD022446		0.006	0.12	0.83	32	0.09	4.90	69	1.9	
DD022447		0.006	0.09	0.89	32	0.06	5.75	98	1.9	
DD022448		0.006	0.06	0.90	27	0.06	6.94	95	1.2	
DD022449		0.006	0.11	0.94	33	0.08	7.02	104	1.5	
DD022450		<0.005	0.08	0.88	21	<0.05	7.88	95	2.9	
DD022451		0.017	0.27	1.06	51	0.21	6.12	107	<0.5	
DD022452		0.008	0.86	0.81	33	0.15	3.07	134	0.5	
DD022453		<0.005	1.81	1.74	23	0.08	7.86	720	2.7	
DD022454		<0.005	1.20	2.99	21	0.06	13.25	1020	2.6	
DD022455		0.009	0.13	0.78	31	0.11	4.44	97	1.2	
ZZ69465		0.012	0.15	0.88	37	0.14	5.82	107	2.3	
ZZ69466		<0.005	0.12	1.03	13	<0.05	11.00	64	2.4	
ZZ69467		0.009	0.12	1.06	26	0.05	9.23	94	2.0	
ZZ69468		0.009	0.10	0.86	30	0.05	6.05	94	3.0	
ZZ69469		0.009	0.10	1.62	30	0.06	10.90	108	1.7	
ZZ69470		0.008	0.11	1.18	30	0.06	7.11	86	2.2	
ZZ69471		0.007	0.09	1.13	26	<0.05	8.25	90	1.9	
ZZ69472		0.009	0.10	1.07	30	0.07	7.75	90	1.2	
ZZ69473		0.009	0.11	1.05	26	0.06	9.32	86	0.9	
ZZ69474		0.008	0.09	0.93	31	0.09	6.11	96	0.9	
ZZ69475		0.010	0.13	0.44	18	0.05	4.87	69	0.6	
ZZ69476		<0.005	0.09	0.89	20	<0.05	4.54	74	0.5	
ZZ69477		0.006	0.12	0.65	35	0.13	4.09	65	0.9	
ZZ69478		0.015	0.11	0.76	29	0.11	6.82	73	1.2	
ZZ69479		0.021	0.10	0.67	34	0.18	4.98	82	<0.5	



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ69480		0.12	0.009	0.08	1.04	7.5	<0.2	<10	90	0.47	0.45	0.05	0.11	6.17	8.6	15
ZZ69481		0.29	0.002	0.09	1.30	12.0	<0.2	<10	220	0.65	0.26	0.20	0.31	17.20	9.3	22
ZZ69482		0.22	0.002	0.31	1.25	11.4	<0.2	<10	290	0.75	0.24	0.79	0.47	19.20	8.6	22
ZZ69483		0.34	0.002	0.16	1.54	13.0	<0.2	<10	110	0.59	0.30	0.06	0.43	20.5	9.3	27
ZZ69484		0.21	0.002	0.09	0.99	12.7	<0.2	<10	130	0.69	0.25	0.21	0.36	19.35	12.0	20
ZZ69485		0.18	0.002	0.09	1.20	9.8	<0.2	<10	120	0.35	0.31	0.06	0.31	17.35	6.9	22
ZZ69486		0.23	0.002	0.13	0.99	11.7	<0.2	<10	200	0.53	0.30	0.14	0.27	13.95	7.3	19
ZZ69487		0.29	0.002	0.11	1.19	15.8	<0.2	<10	100	0.55	0.33	0.06	0.36	21.2	9.4	22
ZZ69488		0.29	0.002	0.07	1.09	20.4	<0.2	<10	90	0.71	0.41	0.03	0.37	21.3	13.0	19
ZZ69489		0.30	0.002	0.08	1.37	11.6	<0.2	<10	140	0.67	0.42	0.05	0.35	22.1	12.5	22
ZZ69490		0.26	0.002	0.14	1.23	36.3	<0.2	<10	330	0.81	0.34	0.11	0.74	14.95	9.6	18
ZZ69491		0.19	0.002	0.12	0.96	43.9	<0.2	<10	230	1.01	0.37	0.07	0.98	15.25	14.0	13
ZZ69492		0.20	0.003	0.27	1.73	13.5	<0.2	<10	330	0.77	0.29	0.07	0.62	21.2	6.7	24
ZZ69493		0.21	0.002	0.14	0.84	23.8	<0.2	<10	190	0.50	0.29	0.19	0.56	12.75	7.3	15
ZZ69494		0.29	0.003	0.15	1.15	20.3	<0.2	<10	280	0.69	0.21	0.23	0.80	23.8	8.8	21
ZZ69495		0.19	0.001	0.45	0.73	37.0	<0.2	<10	160	0.27	0.36	0.05	0.85	14.10	7.4	11
ZZ69496		0.28	0.008	0.26	0.53	34.4	<0.2	<10	270	0.81	0.29	1.94	0.51	22.9	17.0	17
ZZ69497		0.26	0.009	0.42	0.54	39.5	<0.2	<10	360	0.77	0.31	1.61	1.92	18.85	14.2	17
ZZ69498		0.16	0.004	1.18	0.58	50.0	<0.2	<10	1370	1.25	0.42	0.38	12.60	13.65	16.8	12
ZZ69499		0.27	0.003	0.12	0.62	16.3	<0.2	<10	400	1.00	0.39	0.21	0.37	20.5	15.4	12
ZZ69500		0.22	0.001	0.38	0.70	58.7	<0.2	<10	2040	0.62	0.43	0.33	3.52	24.6	11.3	9
DD023001		0.18	0.003	0.70	0.82	58.8	<0.2	<10	2900	0.94	0.42	0.21	3.57	15.40	16.0	13
DD023002		0.19	0.003	0.04	1.06	10.8	<0.2	<10	510	0.57	0.33	0.11	0.20	19.40	7.5	18
DD023003		0.23	0.002	0.24	1.33	22.2	<0.2	<10	2020	0.96	0.33	0.22	2.22	19.70	9.5	23
DD023004		0.20	0.004	0.64	0.95	15.7	<0.2	<10	810	0.90	0.32	0.24	0.92	12.60	9.8	13
DD023005		0.26	0.005	0.30	0.51	19.2	<0.2	<10	190	0.84	0.26	0.36	1.10	15.45	16.2	8
DD023006		0.20	0.003	0.22	1.28	11.0	<0.2	<10	360	0.65	0.25	0.07	0.57	18.40	6.7	21
DD023007		0.19	0.002	0.04	1.28	9.6	<0.2	<10	70	0.68	0.48	0.02	0.12	16.00	8.9	19
DD023008		0.23	0.003	0.02	1.25	7.6	<0.2	<10	100	0.53	0.43	0.03	0.04	15.30	7.7	16
DD023009		0.33	0.001	0.02	1.25	7.8	<0.2	<10	100	0.99	0.56	0.02	0.09	19.40	16.7	17
DD023010		0.20	0.001	0.05	0.85	8.4	<0.2	<10	90	1.07	0.50	0.15	0.07	18.20	13.9	13
DD023011		0.29	0.002	0.04	0.70	6.7	<0.2	<10	100	0.75	0.41	0.10	0.05	22.6	12.9	12
DD023012		0.21	0.002	0.04	0.35	9.3	<0.2	<10	100	1.07	0.58	0.08	0.02	27.3	18.7	8
DD023013		0.20	0.002	0.05	0.84	9.8	<0.2	<10	100	0.91	0.49	0.04	0.20	18.00	21.9	16
DD023014		0.33	0.002	0.08	0.49	8.4	<0.2	<10	130	1.02	0.45	0.07	0.09	21.9	19.5	9
DD023015		0.20	0.002	0.04	0.46	7.7	<0.2	<10	100	1.17	0.57	0.03	0.15	20.4	17.7	8
DD023016		0.21	0.003	0.03	1.05	8.7	<0.2	<10	110	0.67	0.45	0.03	0.14	20.5	15.4	16
DD023017		0.29	0.002	0.04	1.40	10.3	<0.2	<10	120	0.78	0.43	0.05	0.12	20.3	11.3	18
DD023018		0.24	0.002	0.04	1.40	8.1	<0.2	<10	100	0.71	0.34	0.05	0.16	19.65	5.8	20
DD023019		0.15	0.002	0.03	0.82	15.6	<0.2	<10	80	0.77	0.44	0.03	0.21	17.95	13.0	15



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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ69480		2.63	16.6	3.56	4.65	0.06	0.02	0.35	0.025	0.07	3.1	3.4	0.10	618	1.18	0.01
ZZ69481		1.52	15.9	3.25	4.53	0.07	<0.02	0.46	0.027	0.05	7.8	13.4	0.26	878	1.53	0.01
ZZ69482		4.75	22.7	2.89	3.86	0.08	0.08	2.12	0.028	0.06	9.8	14.7	0.37	470	1.49	0.01
ZZ69483		1.50	22.5	3.62	5.51	0.08	<0.02	0.07	0.031	0.05	9.8	15.2	0.29	462	2.11	0.01
ZZ69484		1.19	34.7	3.61	3.33	0.08	0.02	0.04	0.034	0.05	7.5	13.2	0.26	356	2.65	0.01
ZZ69485		1.42	16.0	2.78	5.68	0.06	<0.02	0.04	0.026	0.05	8.7	6.6	0.18	549	1.70	0.01
ZZ69486		1.31	29.6	2.98	4.16	0.07	<0.02	0.10	0.032	0.05	7.2	6.8	0.17	436	1.73	0.01
ZZ69487		1.20	29.0	3.34	4.56	0.08	<0.02	0.15	0.032	0.05	10.1	9.4	0.23	374	1.94	0.01
ZZ69488		1.86	35.5	3.96	3.88	0.07	0.02	0.41	0.039	0.05	9.3	9.2	0.18	700	1.84	0.01
ZZ69489		2.20	25.5	3.01	5.34	0.07	<0.02	0.10	0.031	0.05	9.9	12.1	0.26	376	1.94	0.01
ZZ69490		1.09	28.6	3.63	3.80	0.07	0.04	0.41	0.038	0.05	7.5	10.7	0.19	345	1.45	0.01
ZZ69491		1.07	39.3	4.79	2.16	0.07	0.04	0.82	0.048	0.04	6.8	5.7	0.09	565	0.78	0.01
ZZ69492		2.04	19.6	2.70	6.03	0.07	0.02	0.29	0.029	0.06	11.0	9.9	0.22	388	1.90	0.01
ZZ69493		1.28	21.0	3.22	3.18	0.06	<0.02	2.25	0.030	0.04	5.9	6.8	0.16	287	1.27	0.01
ZZ69494		1.04	20.3	3.31	3.29	0.07	0.04	0.77	0.030	0.04	8.5	8.5	0.24	511	1.49	0.01
ZZ69495		1.58	23.9	2.57	3.73	0.05	<0.02	0.51	0.028	0.05	6.8	2.4	0.06	234	1.39	0.01
ZZ69496		1.13	40.8	3.39	2.00	0.08	0.10	0.52	0.038	0.06	9.6	4.0	0.71	412	1.86	0.01
ZZ69497		1.69	50.0	3.68	1.69	0.10	0.09	1.69	0.039	0.06	8.4	4.4	0.62	386	1.77	0.01
ZZ69498		1.75	66.3	4.54	2.39	0.10	0.05	6.14	0.052	0.07	7.3	3.6	0.12	753	1.58	0.01
ZZ69499		2.09	41.6	3.59	2.12	0.09	0.04	0.61	0.035	0.08	10.2	9.1	0.18	586	1.27	0.01
ZZ69500		2.18	89.1	2.96	2.78	0.10	0.06	26.9	0.046	0.10	11.6	3.2	0.06	1300	1.19	0.01
DD023001		5.20	80.0	3.26	4.29	0.08	0.04	58.0	0.060	0.16	7.2	5.8	0.14	798	1.15	0.02
DD023002		2.64	19.4	2.61	4.44	0.06	<0.02	0.51	0.025	0.06	9.3	8.6	0.18	372	1.59	0.01
DD023003		3.62	26.8	3.07	4.50	0.07	0.03	4.91	0.032	0.08	9.4	16.2	0.36	401	1.58	0.01
DD023004		4.51	45.9	3.10	2.85	0.07	0.14	0.90	0.038	0.08	6.5	7.5	0.13	399	5.80	0.01
DD023005		2.92	75.4	3.82	1.66	0.09	0.05	0.19	0.038	0.07	7.4	7.9	0.13	611	6.51	0.01
DD023006		2.49	23.2	2.54	4.42	0.06	0.02	1.39	0.027	0.06	9.2	12.6	0.23	267	2.63	0.01
DD023007		1.58	27.3	3.86	5.31	0.07	0.04	0.04	0.037	0.05	7.6	10.1	0.16	301	1.09	0.01
DD023008		2.12	19.8	3.35	5.64	0.06	0.02	0.03	0.027	0.05	7.3	5.8	0.12	430	1.10	<0.01
DD023009		2.32	27.8	3.42	5.34	0.07	0.03	0.02	0.035	0.07	8.7	18.2	0.19	708	0.90	0.01
DD023010		1.55	35.4	4.80	2.90	0.09	0.03	0.04	0.056	0.07	8.3	20.2	0.19	438	1.06	0.01
DD023011		1.52	36.3	3.95	2.73	0.09	0.02	0.03	0.035	0.07	10.6	12.5	0.17	492	0.70	0.01
DD023012		0.98	60.2	4.24	1.37	0.09	0.05	0.05	0.051	0.09	13.2	4.3	0.08	599	0.68	0.01
DD023013		1.92	33.4	4.03	3.56	0.07	0.02	0.05	0.037	0.09	8.0	10.2	0.15	1390	1.06	0.01
DD023014		0.94	40.2	4.54	1.88	0.08	0.02	0.16	0.041	0.09	10.3	4.6	0.09	536	0.62	0.01
DD023015		1.43	48.0	3.62	1.70	0.07	0.02	0.07	0.032	0.07	9.5	4.5	0.10	1280	0.53	0.01
DD023016		2.17	26.7	3.05	4.30	0.07	0.02	0.04	0.029	0.08	9.6	10.8	0.17	1040	1.16	0.01
DD023017		1.57	22.7	3.43	5.03	0.08	0.04	0.05	0.031	0.08	9.6	12.7	0.22	421	1.23	0.01
DD023018		2.39	15.3	2.30	5.57	0.06	0.02	0.05	0.024	0.06	9.7	9.0	0.18	227	1.36	<0.01
DD023019		1.91	32.0	3.95	3.04	0.07	0.02	0.14	0.036	0.08	8.6	8.2	0.15	515	1.40	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ69480		0.32	13.2	1380	14.7	9.9	<0.001	0.08	0.61	1.9	0.3	0.5	7.4	<0.01	0.07	0.4
ZZ69481		0.25	17.5	910	20.0	15.4	<0.001	0.04	0.58	1.2	0.4	0.4	16.4	<0.01	0.04	0.3
ZZ69482		0.47	23.0	1560	26.7	17.0	<0.001	0.09	0.77	3.0	0.9	0.4	47.9	0.01	0.04	1.1
ZZ69483		0.47	20.3	740	19.3	11.8	<0.001	0.04	0.91	1.2	0.7	0.5	10.1	<0.01	0.07	0.2
ZZ69484		0.26	30.7	760	18.3	7.5	0.001	0.04	1.04	1.8	0.8	0.3	20.5	<0.01	0.06	0.3
ZZ69485		0.21	14.9	870	15.2	16.3	<0.001	0.06	0.66	0.4	0.3	0.7	11.4	<0.01	0.05	<0.2
ZZ69486		0.13	22.2	1160	25.7	12.7	<0.001	0.05	0.88	0.6	0.7	0.5	20.2	<0.01	0.06	<0.2
ZZ69487		0.32	23.0	760	28.4	10.7	<0.001	0.04	1.24	1.7	0.6	0.5	13.0	<0.01	0.07	0.3
ZZ69488		0.38	27.1	650	45.3	11.5	<0.001	0.04	1.30	3.0	0.7	0.5	13.8	<0.01	0.06	0.9
ZZ69489		0.46	25.0	630	31.2	11.7	<0.001	0.04	0.85	1.9	0.6	0.6	11.0	<0.01	0.06	0.5
ZZ69490		0.41	25.3	510	56.3	7.8	<0.001	0.02	1.74	3.9	0.5	0.4	16.9	<0.01	0.04	1.6
ZZ69491		0.18	32.4	390	121.0	7.7	<0.001	0.01	2.22	5.2	0.4	0.3	24.7	<0.01	0.04	2.3
ZZ69492		0.31	18.9	1350	106.5	13.5	<0.001	0.06	0.84	0.8	0.7	0.6	12.0	<0.01	0.04	<0.2
ZZ69493		0.32	19.5	700	132.0	7.6	<0.001	0.03	1.90	1.6	0.3	0.4	14.7	<0.01	0.04	0.3
ZZ69494		0.40	22.3	800	63.2	8.5	<0.001	0.02	1.60	2.9	0.6	0.4	14.9	<0.01	0.03	1.1
ZZ69495		0.45	19.2	540	93.3	7.0	<0.001	0.03	5.85	1.5	0.2	0.5	13.4	<0.01	0.05	0.6
ZZ69496		0.26	33.3	950	105.5	3.7	<0.001	0.04	4.71	5.6	2.1	0.5	70.1	0.01	0.04	3.5
ZZ69497		0.22	34.3	1020	147.0	4.1	<0.001	0.05	4.68	6.6	1.7	0.4	52.4	0.01	0.03	4.4
ZZ69498		0.20	40.3	720	968	6.0	0.001	0.04	9.89	8.0	1.5	0.5	26.8	0.01	0.07	3.0
ZZ69499		0.31	31.9	390	35.4	7.5	<0.001	0.01	2.26	5.9	0.6	0.4	32.6	<0.01	0.05	4.9
ZZ69500		0.20	26.1	790	532	9.7	<0.001	0.09	20.9	6.5	1.0	0.4	29.2	0.01	0.08	1.4
DD023001		0.33	29.3	1000	881	18.0	<0.001	0.11	19.75	4.8	0.7	0.7	38.9	<0.01	0.08	1.4
DD023002		0.39	17.1	540	35.2	14.0	<0.001	0.02	1.11	1.1	0.3	0.6	17.1	<0.01	0.04	0.3
DD023003		0.47	26.7	850	477	15.1	<0.001	0.03	3.85	2.9	0.5	0.5	21.2	<0.01	0.05	0.9
DD023004		0.26	27.6	1400	38.3	16.5	0.001	0.05	1.72	4.4	1.1	0.4	25.5	0.01	0.07	1.4
DD023005		0.13	35.8	1320	26.2	6.9	0.003	0.03	1.92	4.1	1.9	0.3	29.0	<0.01	0.08	0.9
DD023006		0.31	19.3	1090	50.1	14.3	<0.001	0.05	0.89	1.0	0.7	0.5	12.0	<0.01	0.05	0.2
DD023007		0.54	18.0	610	22.7	10.3	<0.001	0.02	0.39	2.6	0.3	0.6	12.7	<0.01	0.04	1.4
DD023008		0.58	13.0	510	16.7	14.2	<0.001	0.01	0.38	2.4	0.2	0.7	9.2	<0.01	0.04	1.4
DD023009		0.47	20.0	270	29.1	14.4	<0.001	<0.01	0.32	4.4	0.2	0.6	15.0	<0.01	0.03	5.5
DD023010		0.21	25.6	320	19.4	7.7	<0.001	0.01	0.21	4.4	0.2	0.5	26.8	<0.01	0.03	4.6
DD023011		0.25	25.2	250	18.0	7.7	<0.001	<0.01	0.22	4.2	0.2	0.4	25.3	<0.01	0.03	5.3
DD023012		0.09	33.7	220	21.1	5.7	<0.001	<0.01	0.23	5.1	0.3	0.4	38.7	<0.01	0.03	7.0
DD023013		0.46	26.0	470	30.4	11.8	<0.001	0.02	0.44	3.7	0.3	0.6	21.4	<0.01	0.04	3.2
DD023014		0.15	30.0	240	23.4	6.9	<0.001	0.01	0.23	4.8	0.2	0.3	29.4	<0.01	0.03	4.5
DD023015		0.21	27.0	280	16.0	6.8	<0.001	<0.01	0.53	3.8	0.2	0.4	40.3	<0.01	0.03	4.4
DD023016		0.75	19.0	280	18.9	13.6	<0.001	0.01	0.50	3.1	0.3	0.6	19.8	<0.01	0.04	3.5
DD023017		0.87	21.7	260	21.2	13.4	<0.001	0.01	0.49	3.6	0.3	0.6	16.0	<0.01	0.05	4.3
DD023018		0.80	13.6	430	11.3	15.6	<0.001	<0.01	0.51	2.0	0.3	0.7	10.8	<0.01	0.04	0.7
DD023019		0.48	24.6	280	32.5	11.5	<0.001	0.01	0.88	3.5	0.4	0.5	18.0	<0.01	0.06	3.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti	Ti	U	V	W	Y	Zn	Zr	Zn
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ69480		0.008	0.08	0.44	31	0.12	2.45	60	0.6	
ZZ69481		0.012	0.11	0.83	39	0.18	5.55	107	<0.5	
ZZ69482		0.017	0.10	2.12	34	0.17	10.15	185	2.0	
ZZ69483		0.021	0.12	0.89	48	0.22	5.11	100	<0.5	
ZZ69484		0.013	0.10	0.82	38	0.17	7.39	145	<0.5	
ZZ69485		0.011	0.16	0.71	49	0.17	3.07	89	<0.5	
ZZ69486		0.007	0.12	0.82	37	0.15	5.97	113	<0.5	
ZZ69487		0.016	0.13	0.96	43	0.21	6.81	142	<0.5	
ZZ69488		0.011	0.13	0.96	37	0.15	7.83	189	<0.5	
ZZ69489		0.017	0.17	0.85	45	0.18	4.82	125	<0.5	
ZZ69490		0.007	0.13	0.70	39	0.12	5.44	429	0.9	
ZZ69491		<0.005	0.09	0.77	23	0.06	8.08	452	1.0	
ZZ69492		0.008	0.24	1.44	56	0.23	8.00	168	<0.5	
ZZ69493		0.010	0.10	0.87	34	0.15	3.76	294	<0.5	
ZZ69494		0.010	0.11	1.27	42	0.17	6.62	467	0.9	
ZZ69495		0.008	0.09	0.54	37	0.13	2.32	301	<0.5	
ZZ69496		0.005	0.14	6.07	27	0.10	13.80	186	3.9	
ZZ69497		0.005	0.17	6.79	26	0.15	13.40	689	4.0	
ZZ69498		<0.005	0.11	1.01	21	0.07	16.10	4620	1.0	
ZZ69499		0.009	0.10	0.97	20	0.08	10.20	227	1.2	
ZZ69500		0.005	0.21	1.08	16	0.07	19.50	1120	1.0	
DD023001		0.009	0.23	1.16	22	0.10	9.60	1120	0.5	
DD023002		0.014	0.14	0.72	39	0.18	3.57	100	<0.5	
DD023003		0.012	0.17	1.08	39	0.19	6.34	559	<0.5	
DD023004		<0.005	0.24	1.49	34	0.08	10.55	185	3.9	
DD023005		<0.005	0.15	1.64	27	<0.05	13.25	189	1.2	
DD023006		0.010	0.18	1.14	39	0.14	5.45	219	<0.5	
DD023007		0.010	0.14	0.72	32	0.12	4.06	60	1.1	
DD023008		0.008	0.18	0.57	36	0.13	3.76	45	0.5	
DD023009		0.007	0.12	0.80	28	0.08	4.81	69	1.5	
DD023010		<0.005	0.07	0.68	17	<0.05	4.80	64	0.8	
DD023011		<0.005	0.06	0.80	18	0.05	5.45	64	0.7	
DD023012		<0.005	0.06	0.96	12	<0.05	7.26	68	2.1	
DD023013		0.009	0.11	0.83	26	0.10	4.57	91	0.6	
DD023014		<0.005	0.09	0.85	13	<0.05	5.88	67	0.7	
DD023015		0.005	0.07	0.84	13	0.05	5.83	64	0.7	
DD023016		0.014	0.13	0.73	34	0.13	4.04	64	0.6	
DD023017		0.012	0.15	0.67	38	0.17	4.02	64	1.2	
DD023018		0.017	0.21	0.70	41	0.19	3.19	57	0.5	
DD023019		0.008	0.11	0.66	28	0.07	4.02	113	0.6	



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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023020		0.20	0.001	0.04	1.15	13.3	<0.2	<10	110	0.38	0.38	0.03	0.13	20.1	9.5	15
DD023021		0.26	0.001	0.03	1.09	14.8	<0.2	<10	130	0.49	0.38	0.05	0.14	20.3	10.3	15
DD023022		0.23	0.002	0.05	0.67	11.1	<0.2	<10	170	1.36	0.48	0.09	0.07	23.3	16.0	9
DD023023		0.26	0.002	0.04	0.83	12.0	<0.2	<10	100	1.33	0.57	0.04	0.18	20.7	20.4	13
DD023024		0.20	0.002	0.03	0.63	18.6	<0.2	<10	130	0.98	0.45	0.06	0.11	19.30	17.7	11
DD023025		0.24	0.003	0.03	0.62	1.7	<0.2	<10	140	1.39	0.35	0.02	0.04	20.3	14.7	9
DD023026		0.25	0.001	0.04	1.12	12.1	<0.2	<10	190	0.64	0.40	0.14	0.07	18.20	7.9	17
DD023027		0.23	0.002	0.19	1.31	195	<0.2	<10	240	1.07	0.13	10.85	0.93	35.2	6.9	15
DD023028		0.29	0.002	0.08	1.91	24.0	<0.2	<10	290	0.86	0.26	0.53	0.15	22.7	10.0	26
DD023029		0.18	0.002	0.16	2.23	48.0	<0.2	<10	240	1.13	0.32	0.64	0.24	36.3	11.1	33
DD023030		0.16	0.002	0.16	1.81	65.3	<0.2	<10	310	0.93	0.29	1.94	0.42	32.1	11.2	27
DD023031		0.19	0.002	0.18	0.50	39	<0.2	<10	180	0.37	0.09	14.55	0.19	21.8	5.3	10
DD023032		0.24	0.005	0.12	0.32	56	<0.2	<10	120	0.27	0.06	16.10	0.21	15.65	3.3	6
DD023033		0.25	0.003	0.28	1.29	93.2	<0.2	<10	210	0.76	0.20	7.19	0.41	33.3	7.7	21
DD023034		0.27	0.002	0.17	1.07	61.8	<0.2	<10	340	0.70	0.19	7.34	0.25	25.3	8.7	16
DD023035		0.23	0.002	0.07	0.70	23.6	<0.2	<10	170	0.65	0.30	8.64	0.16	24.9	10.7	11
DD026938		0.25	0.002	0.13	0.47	9.3	<0.2	<10	160	1.27	0.44	0.25	0.13	21.4	13.9	10
DD026939		0.18	0.002	0.10	0.87	12.7	<0.2	<10	160	0.76	0.31	0.63	0.17	18.50	8.8	15
DD026940		0.30	0.002	0.17	0.95	13.9	<0.2	<10	210	0.79	0.33	0.43	0.18	17.10	13.1	17
DD026941		0.27	0.002	0.23	0.68	238	<0.2	<10	190	0.41	0.11	12.35	2.24	15.15	4.7	13
DD026942		0.34	0.002	0.22	0.70	202	<0.2	<10	200	0.46	0.15	7.45	1.04	19.15	7.4	16
DD026943		0.22	0.003	0.22	1.04	199.0	<0.2	<10	290	0.77	0.24	2.93	1.08	24.2	13.1	20
DD026944		0.28	0.003	0.15	0.67	114.0	<0.2	<10	230	0.79	0.24	2.56	0.42	30.1	15.5	15
DD026945		0.32	0.002	0.05	0.71	17.6	<0.2	<10	80	1.34	0.45	0.03	0.51	16.80	15.6	8
DD026946		0.28	0.015	0.05	1.30	4.1	<0.2	<10	100	0.65	0.43	0.03	0.08	11.45	7.0	19
DD026947		0.30	0.003	0.06	1.47	12.9	<0.2	<10	60	0.42	0.50	0.04	0.08	15.50	6.2	23
DD026948		0.29	0.003	0.06	2.29	16.3	<0.2	<10	160	1.51	0.32	0.09	0.80	38.2	15.0	31
DD026949		0.41	0.002	0.07	0.50	22.3	<0.2	<10	220	0.96	0.34	0.15	0.12	18.10	14.9	11
DD026950		0.43	0.002	0.12	0.34	409	<0.2	<10	140	0.34	0.09	13.55	0.55	13.90	4.7	7
DD026951		0.22	0.003	0.10	0.60	140	<0.2	<10	150	0.38	0.16	10.95	0.39	28.1	6.8	11
DD026952		0.36	0.002	0.22	0.65	205	<0.2	<10	110	0.42	0.12	10.55	6.86	18.50	6.0	14
DD026953		0.38	0.004	0.17	0.21	132	<0.2	<10	120	0.26	0.12	10.30	0.57	15.40	5.7	11
DD026954		0.30	0.001	0.09	1.16	19.0	<0.2	<10	120	1.21	0.43	0.16	0.18	11.40	17.2	17
DD026955		0.32	0.001	0.18	0.68	28.5	<0.2	<10	140	1.06	0.38	0.91	0.18	19.90	15.5	14
DD026956		0.26	0.002	0.21	0.83	12.1	<0.2	<10	140	1.02	0.34	0.92	0.23	19.50	11.7	15
DD026957		0.35	0.001	0.07	1.16	15.1	<0.2	<10	120	0.96	0.33	0.21	0.21	19.25	12.2	20
DD026958		0.35	0.003	0.22	0.50	60.9	<0.2	<10	110	1.07	0.43	2.26	0.34	22.5	16.5	11
DD026959		0.28	0.002	0.15	0.43	35.9	<0.2	<10	100	0.93	0.45	3.54	0.18	20.0	16.2	11
DD026960		0.33	0.001	0.02	0.60	8.4	<0.2	<10	70	0.22	0.25	0.03	0.04	17.80	4.6	10
DD026961		0.30	0.002	0.12	0.27	141	<0.2	<10	180	0.23	0.10	11.90	0.27	12.60	4.1	8

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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD023020		2.10	21.1	2.99	4.83	0.06	0.02	0.10	0.028	0.06	9.5	5.4	0.13	407	1.34	0.01
DD023021		1.38	22.3	3.19	5.10	0.07	0.02	0.08	0.028	0.07	9.8	8.7	0.15	447	1.31	0.01
DD023022		1.24	43.1	3.59	2.11	0.09	0.03	0.34	0.033	0.09	11.2	5.6	0.09	445	0.55	0.01
DD023023		1.98	41.4	4.71	2.47	0.08	0.02	0.09	0.045	0.08	9.7	9.4	0.15	432	1.03	0.01
DD023024		1.17	36.7	3.31	2.53	0.07	0.03	0.14	0.035	0.08	8.7	8.1	0.10	695	0.67	0.01
DD023025		5.55	42.6	3.35	3.15	0.09	0.02	0.05	0.027	0.26	7.2	4.8	0.06	208	0.44	0.01
DD023026		3.57	17.2	2.64	4.60	<0.05	0.02	0.09	0.032	0.07	8.3	8.8	0.17	193	1.70	0.01
DD023027		0.56	10.1	3.32	1.97	0.06	0.05	3.20	0.021	0.03	17.4	5.6	6.36	2580	1.13	0.02
DD023028		1.58	17.8	3.58	5.22	<0.05	0.04	0.26	0.039	0.04	8.8	19.0	0.50	550	2.93	0.01
DD023029		1.38	18.5	4.63	5.60	0.06	0.06	1.26	0.039	0.06	20.6	16.1	0.53	1570	2.59	0.01
DD023030		0.83	22.1	4.02	4.98	0.05	0.07	1.16	0.037	0.05	15.3	13.2	0.91	1760	1.94	0.01
DD023031		0.35	11.1	1.74	1.23	0.05	0.04	1.97	0.013	0.03	12.8	3.6	8.66	1960	0.83	0.03
DD023032		0.22	7.7	2.14	0.81	<0.05	0.06	2.35	0.008	0.03	9.8	2.4	9.50	1950	0.51	0.03
DD023033		0.88	15.5	3.47	3.27	0.07	0.04	3.30	0.028	0.03	22.0	8.6	4.17	2700	1.02	0.02
DD023034		0.79	17.7	3.04	2.67	0.06	0.04	1.08	0.022	0.04	16.6	7.2	4.49	2080	1.12	0.02
DD023035		1.25	19.7	3.00	1.69	0.05	0.04	1.05	0.033	0.05	12.9	5.2	5.00	1360	0.78	0.02
DD026938		2.88	29.1	4.64	1.32	0.05	<0.02	0.09	0.051	0.05	7.8	5.3	0.06	512	0.91	0.01
DD026939		1.97	19.2	2.74	2.74	<0.05	0.04	0.11	0.031	0.06	8.2	10.1	0.19	254	0.88	0.01
DD026940		2.68	32.3	3.06	2.93	<0.05	0.06	0.10	0.033	0.07	8.2	21.2	0.24	489	1.18	0.01
DD026941		0.44	8.7	2.45	2.24	<0.05	0.03	7.27	0.018	0.03	7.1	4.0	7.28	1280	0.61	0.02
DD026942		1.84	11.7	2.93	1.96	<0.05	0.06	5.71	0.023	0.04	8.9	5.7	4.51	1020	0.86	0.02
DD026943		2.15	21.0	5.03	3.08	0.05	0.04	2.96	0.032	0.05	11.7	7.7	1.44	3150	1.27	0.02
DD026944		6.99	20.8	3.30	2.03	0.06	0.06	0.40	0.027	0.07	15.2	5.9	1.41	1380	1.02	0.01
DD026945		1.28	30.8	3.57	1.43	<0.05	0.04	0.08	0.034	0.06	7.4	4.1	0.07	335	0.52	<0.01
DD026946		3.94	25.5	2.83	5.35	<0.05	0.03	0.04	0.025	0.13	5.2	9.4	0.15	147	1.23	0.01
DD026947		2.77	16.2	4.80	7.79	<0.05	0.03	0.04	0.025	0.07	7.3	11.6	0.18	315	1.70	0.01
DD026948		2.44	22.7	3.89	4.89	0.05	0.05	0.09	0.040	0.08	11.8	27.4	0.37	756	1.91	0.01
DD026949		2.89	29.8	3.51	1.61	<0.05	<0.02	0.15	0.035	0.07	8.1	4.0	0.12	1070	0.77	0.01
DD026950		0.39	9.7	2.18	0.87	<0.05	0.04	0.87	0.013	0.03	7.7	2.1	8.13	1440	0.52	0.02
DD026951		0.45	16.6	2.42	1.63	0.06	0.05	0.68	0.016	0.04	19.0	3.2	6.44	1280	0.51	0.02
DD026952		1.02	11.1	2.30	2.38	<0.05	0.04	15.60	0.029	0.03	8.7	5.5	6.42	997	0.83	0.02
DD026953		1.06	11.6	2.13	0.76	<0.05	0.04	2.25	0.015	0.04	6.3	1.5	5.87	497	0.39	0.01
DD026954		6.69	43.0	4.93	3.20	<0.05	0.04	0.09	0.041	0.06	4.6	29.5	0.25	661	1.04	0.01
DD026955		2.06	43.0	4.08	1.92	0.06	0.07	0.09	0.053	0.06	9.4	10.4	0.14	711	1.00	0.01
DD026956		1.20	36.1	3.80	2.43	0.06	0.09	0.08	0.046	0.06	9.9	10.7	0.20	279	0.78	0.01
DD026957		2.80	26.6	3.64	3.29	<0.05	0.02	0.09	0.035	0.06	8.1	21.4	0.27	562	1.29	0.01
DD026958		0.60	45.1	4.29	1.47	0.05	0.04	0.62	0.048	0.05	9.8	3.7	0.09	395	1.18	0.01
DD026959		1.01	40.7	3.53	1.25	0.05	0.04	0.10	0.050	0.04	10.0	3.6	0.09	385	0.84	0.01
DD026960		2.31	15.0	1.86	3.86	<0.05	<0.02	0.05	0.017	0.05	8.5	1.5	0.04	153	2.10	0.01
DD026961		1.22	10.0	1.91	0.73	<0.05	0.04	1.53	0.010	0.04	5.1	1.8	6.97	849	0.41	0.02

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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD023020		0.80	17.3	290	30.3	12.2	<0.001	<0.01	0.67	2.9	0.3	0.7	12.1	<0.01	0.05	3.6
DD023021		0.79	18.6	320	30.1	12.0	<0.001	<0.01	0.71	3.4	0.3	0.7	13.6	<0.01	0.04	3.6
DD023022		0.14	27.8	230	29.6	8.3	<0.001	<0.01	0.24	5.7	0.4	0.5	22.1	<0.01	0.03	6.1
DD023023		0.31	35.2	350	29.1	10.1	<0.001	<0.01	0.39	4.6	0.4	0.6	17.6	<0.01	0.03	3.3
DD023024		0.31	25.7	270	25.1	7.4	<0.001	0.01	0.28	3.7	0.2	0.5	26.3	<0.01	0.03	5.0
DD023025		0.22	26.3	320	14.5	26.1	<0.001	0.01	0.28	3.8	0.2	0.6	16.8	<0.01	0.05	3.7
DD023026		0.52	15.6	560	21.1	11.3	<0.001	0.02	0.52	2.2	0.3	0.7	17.3	<0.01	0.02	1.1
DD023027		0.24	16.3	1100	33.9	4.1	<0.001	0.06	1.50	2.9	1.1	0.3	97.6	0.01	0.04	0.9
DD023028		0.50	26.6	560	19.4	10.5	0.001	0.02	0.85	3.7	0.7	0.6	13.2	<0.01	0.04	2.0
DD023029		0.73	28.7	640	33.1	9.0	0.001	0.02	1.10	5.2	1.3	0.7	17.2	0.01	0.06	2.7
DD023030		0.50	25.3	1350	44.5	7.0	<0.001	0.09	1.34	2.8	1.3	0.6	29.3	0.01	0.08	1.0
DD023031		0.09	13.3	1790	29.8	2.4	<0.001	0.03	0.70	2.7	0.7	0.2	70.8	<0.01	0.04	1.1
DD023032		0.08	8.1	900	25.0	2.3	<0.001	0.05	1.14	1.9	0.6	0.2	66.9	<0.01	0.04	0.8
DD023033		0.29	21.2	1740	66.5	7.6	<0.001	0.05	1.09	3.2	1.0	0.4	38.3	<0.01	0.06	0.8
DD023034		0.29	16.9	1110	21.7	6.7	0.001	0.04	0.65	3.0	0.9	0.4	35.1	<0.01	0.04	1.0
DD023035		0.14	17.0	550	31.0	6.6	<0.001	0.02	0.66	6.2	1.2	0.4	47.9	<0.01	0.05	2.3
DD026938		0.08	37.2	540	31.2	7.0	0.001	0.01	0.30	6.8	1.0	0.6	31.0	<0.01	0.02	2.8
DD026939		0.44	23.6	640	21.9	9.9	0.001	0.03	0.48	3.6	0.7	0.5	32.3	<0.01	0.04	2.0
DD026940		0.30	31.7	590	26.9	8.6	0.001	0.02	0.55	5.1	1.0	0.4	30.6	<0.01	0.05	2.7
DD026941		0.23	11.5	1020	250	3.9	0.001	0.05	4.04	2.1	0.9	0.3	64.4	<0.01	0.02	0.5
DD026942		0.23	19.6	830	186.0	3.5	<0.001	0.03	5.18	3.7	1.2	0.4	64.3	<0.01	0.03	1.5
DD026943		0.32	27.8	1030	111.0	6.1	<0.001	0.07	2.81	3.6	1.2	0.5	34.6	<0.01	0.04	1.2
DD026944		0.31	27.4	730	43.6	7.2	0.001	0.04	1.10	5.2	0.9	0.4	34.8	<0.01	0.03	4.2
DD026945		0.10	23.1	320	46.6	7.1	<0.001	0.02	0.52	4.2	0.6	0.3	10.1	<0.01	0.03	3.9
DD026946		0.34	15.5	860	15.7	19.4	<0.001	0.05	0.42	1.8	0.7	0.6	8.8	<0.01	0.04	0.8
DD026947		1.01	11.9	720	22.7	17.0	<0.001	0.03	0.70	2.2	0.7	0.9	8.2	<0.01	0.06	2.1
DD026948		0.94	39.3	760	26.0	13.7	<0.001	0.03	1.04	4.7	1.0	0.5	13.2	0.01	0.05	2.9
DD026949		0.17	25.4	430	32.0	6.1	<0.001	0.01	0.68	5.0	0.6	0.4	21.0	<0.01	0.03	3.4
DD026950		0.07	9.4	770	71.8	2.4	<0.001	0.06	4.48	1.8	0.5	0.2	90.2	<0.01	0.03	0.4
DD026951		0.15	14.3	1020	91.5	3.4	<0.001	0.07	3.93	2.5	1.1	0.3	51.7	<0.01	0.05	0.7
DD026952		0.27	16.0	660	337	3.7	<0.001	0.05	5.08	3.3	0.9	0.4	62.4	<0.01	0.03	1.4
DD026953		<0.05	16.1	620	136.5	2.0	0.001	0.06	4.62	4.4	0.7	0.3	73.7	<0.01	0.02	4.3
DD026954		0.24	34.3	640	32.5	9.9	<0.001	0.03	0.51	5.3	0.6	0.3	19.4	<0.01	0.07	1.6
DD026955		0.11	34.9	750	38.7	4.8	<0.001	0.05	0.49	8.1	1.3	0.3	40.8	<0.01	0.07	2.6
DD026956		0.24	32.1	770	26.1	5.2	<0.001	0.05	0.50	7.2	1.4	0.4	54.5	<0.01	0.07	2.6
DD026957		0.39	29.6	740	40.3	8.9	<0.001	0.03	0.67	3.6	0.8	0.4	23.3	<0.01	0.06	1.5
DD026958		0.14	46.6	520	46.6	3.7	<0.001	0.03	0.60	7.2	1.4	0.5	128.5	<0.01	0.12	2.6
DD026959		0.07	37.5	710	41.9	3.6	0.001	0.04	0.53	6.9	1.5	0.2	106.5	<0.01	0.13	2.2
DD026960		0.21	12.3	530	15.0	10.1	<0.001	0.01	0.52	0.9	0.3	0.7	11.4	<0.01	0.03	0.2
DD026961		0.06	13.3	1150	70.8	2.2	0.001	0.05	7.00	2.2	0.7	0.2	86.6	<0.01	0.03	1.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
DD023020		0.010	0.18	0.57	39	0.14	2.87	85	0.6	
DD023021		0.011	0.14	0.60	41	0.12	3.32	90	0.5	
DD023022		<0.005	0.10	0.86	13	<0.05	10.10	73	0.5	
DD023023		0.005	0.10	0.94	20	0.08	5.54	99	<0.5	
DD023024		<0.005	0.11	0.60	19	0.05	3.85	72	1.2	
DD023025		0.006	0.16	0.81	14	<0.05	6.17	58	<0.5	
DD023026		0.010	0.19	0.54	37	0.14	3.30	38	0.5	
DD023027		0.008	0.18	2.46	25	0.10	19.00	586	1.2	
DD023028		0.006	0.27	1.03	63	0.19	5.28	92	1.1	
DD023029		0.017	0.30	1.97	67	0.21	14.85	98	1.4	
DD023030		0.011	0.25	2.35	54	0.14	15.20	133	1.6	
DD023031		<0.005	0.15	4.05	17	0.07	16.60	60	1.0	
DD023032		<0.005	0.12	2.52	10	0.06	10.85	79	1.6	
DD023033		0.010	0.23	3.15	34	0.11	21.3	118	1.0	
DD023034		0.010	0.16	1.11	29	0.13	14.65	57	0.8	
DD023035		<0.005	0.25	0.92	17	0.09	14.45	48	0.9	
DD026938		<0.005	0.13	0.72	15	0.05	13.50	132	<0.5	
DD026939		0.010	0.10	0.79	25	0.12	7.88	89	1.4	
DD026940		0.007	0.09	1.23	24	0.10	12.35	105	2.1	
DD026941		0.012	0.26	1.49	22	0.09	9.89	888	0.7	
DD026942		0.008	0.93	0.95	25	0.12	12.65	542	1.6	
DD026943		0.010	0.79	1.03	33	0.11	15.15	543	1.3	
DD026944		0.008	0.36	1.04	23	0.12	14.05	145	1.9	
DD026945		<0.005	0.11	0.67	10	<0.05	5.73	65	1.2	
DD026946		0.010	0.13	0.82	27	0.07	5.91	35	0.7	
DD026947		0.017	0.14	0.54	51	0.20	2.78	57	0.8	
DD026948		0.027	0.15	1.26	47	0.22	8.64	184	1.3	
DD026949		0.006	0.18	0.86	19	0.06	8.10	80	<0.5	
DD026950		0.005	1.00	0.62	12	0.07	10.10	167	1.1	
DD026951		0.006	0.60	1.35	17	0.10	17.75	181	1.5	
DD026952		0.011	0.43	1.08	24	0.18	11.15	2440	1.2	
DD026953		<0.005	0.66	1.09	10	<0.05	8.26	253	2.8	
DD026954		0.007	0.08	1.02	24	0.10	8.92	111	1.0	
DD026955		<0.005	0.07	1.62	20	<0.05	23.9	127	2.3	
DD026956		<0.005	0.06	1.30	23	0.06	19.35	117	2.6	
DD026957		0.012	0.09	0.95	32	0.16	7.83	113	0.8	
DD026958		<0.005	0.07	1.13	19	0.06	16.40	187	1.6	
DD026959		<0.005	0.04	1.93	19	<0.05	20.8	148	1.2	
DD026960		0.011	0.12	0.37	45	0.17	2.39	51	<0.5	
DD026961		<0.005	1.19	1.68	10	0.12	9.38	115	1.6	



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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026962		0.24	0.002	0.17	0.99	61.1	<0.2	<10	150	0.64	0.25	3.16	0.44	26.1	10.1	19
DD026963		0.37	0.004	0.26	0.57	67.3	<0.2	<10	140	0.43	0.20	3.29	0.28	20.7	8.5	17
DD026964		0.39	0.004	0.31	0.63	118.0	<0.2	<10	530	0.46	0.24	0.49	1.44	16.30	12.3	17
DD026965		0.37	0.002	0.10	1.19	41.7	<0.2	<10	290	0.79	0.30	0.28	0.21	36.8	11.9	17
DD026966		0.32	0.002	0.14	0.61	20.0	<0.2	<10	180	0.59	0.32	0.08	0.15	15.80	8.8	8
DD026967		0.33	0.002	0.21	1.57	22.8	<0.2	<10	240	0.68	0.33	0.09	0.26	19.05	13.2	23
DD026968		0.33	0.002	0.15	0.91	17.2	<0.2	<10	320	0.44	0.29	0.55	0.14	14.85	8.8	14
DD026969		0.41	0.001	0.04	0.43	19.5	<0.2	<10	130	0.85	0.49	0.27	0.06	15.55	17.4	10
DD026970		0.31	0.002	0.02	1.52	11.2	<0.2	<10	90	0.26	0.31	0.05	0.14	21.5	6.7	21
DD026971		0.36	0.002	0.03	0.41	12.8	<0.2	<10	50	0.22	0.33	0.03	0.09	10.85	7.7	9
DD026972		0.30	0.001	0.12	0.66	33.4	<0.2	<10	920	0.48	0.31	1.07	0.51	8.76	11.4	11
DD026973		0.34	0.005	0.13	1.03	24.2	<0.2	<10	180	0.64	0.25	0.60	0.26	22.4	11.2	18
DD026974		0.29	0.011	3.91	1.04	51.7	<0.2	<10	2500	0.50	0.20	0.23	47.7	18.50	13.6	18
DD026975		0.36	0.003	0.12	0.94	28.4	<0.2	<10	380	0.48	0.36	0.04	0.35	16.80	9.0	14
DD026976		0.29	0.010	0.08	0.42	8.8	<0.2	<10	100	0.13	0.25	0.07	0.12	17.10	4.8	13
DD026977		0.36	0.008	0.12	0.79	12.3	<0.2	<10	170	0.16	0.31	0.06	0.28	13.45	5.1	15
DD026978		0.31	0.005	0.04	0.56	6.0	<0.2	<10	220	0.67	0.27	0.03	0.22	9.93	11.4	10
DD026979		0.29	0.007	0.17	0.60	20.0	<0.2	<10	470	0.70	0.26	0.25	0.47	18.25	23.6	9
DD026980		0.24	0.004	0.10	1.46	17.6	<0.2	<10	140	0.51	0.26	0.07	0.53	18.30	12.4	22
DD026981		0.32	0.001	0.07	1.61	12.8	<0.2	<10	130	0.53	0.39	0.04	0.23	14.95	10.6	21
DD026982		0.27	0.004	0.04	1.56	13.4	<0.2	<10	270	0.82	0.38	0.04	0.18	17.10	18.7	19
DD026983		0.32	0.002	0.02	1.25	9.6	<0.2	<10	100	0.51	0.37	0.03	0.09	15.55	11.1	15
DD026984		0.28	0.002	0.03	1.30	12.7	<0.2	<10	80	0.56	0.39	0.04	0.14	19.75	13.0	20
DD026985		0.40	0.001	0.02	2.03	4.6	<0.2	<10	60	1.03	0.58	0.02	0.12	22.0	19.6	21
DD026986		0.32	0.002	0.06	1.86	10.4	<0.2	<10	80	0.83	0.40	0.04	0.17	17.90	18.3	29
DD026987		0.29	0.002	0.06	1.58	10.6	<0.2	<10	110	0.77	0.42	0.04	0.14	17.40	12.6	23
DD026988		0.29	0.002	0.04	0.92	11.3	<0.2	<10	90	0.52	0.40	0.02	0.16	16.25	10.5	14
DD026989		0.27	0.002	0.05	1.51	19.0	<0.2	<10	270	0.98	0.32	1.98	0.39	19.95	8.9	15
DD026990		0.26	0.004	0.13	0.52	20	<0.2	<10	150	0.63	0.11	13.60	0.31	18.40	6.3	8

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**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026962		1.71	22.2	3.06	2.55	0.07	0.04	0.40	0.021	0.05	14.5	6.8	1.50	1060	0.93	0.01
DD026963		2.98	20.9	3.12	1.59	0.06	0.07	2.30	0.025	0.05	8.9	4.2	1.67	624	0.79	0.01
DD026964		1.31	26.6	4.02	1.84	0.12	0.06	4.32	0.029	0.04	7.8	3.4	0.18	1020	0.82	<0.01
DD026965		1.50	21.1	3.99	2.89	0.11	0.06	0.57	0.042	0.04	10.7	10.0	0.20	680	1.33	<0.01
DD026966		1.94	32.3	3.02	1.69	0.08	0.03	0.13	0.030	0.03	6.3	1.7	0.04	203	1.11	<0.01
DD026967		2.16	27.9	4.20	4.09	0.10	0.06	0.47	0.038	0.05	9.0	17.9	0.33	436	2.16	<0.01
DD026968		1.44	23.7	2.90	3.40	0.07	0.02	0.16	0.028	0.04	7.3	4.7	0.10	448	1.15	<0.01
DD026969		1.05	24.7	5.29	1.64	0.11	0.03	0.16	0.043	0.04	8.3	3.1	0.08	1040	0.60	<0.01
DD026970		1.46	14.5	2.71	6.88	0.08	<0.02	0.04	0.022	0.05	10.9	8.2	0.23	261	1.80	<0.01
DD026971		0.56	24.9	3.12	2.49	0.07	<0.02	0.03	0.024	0.05	5.5	1.2	0.04	209	1.04	<0.01
DD026972		1.06	47.2	3.39	2.08	0.07	0.05	0.49	0.038	0.05	4.2	3.0	0.08	409	0.88	<0.01
DD026973		0.79	26.0	3.69	3.01	0.10	0.06	0.22	0.033	0.04	9.3	8.1	0.25	489	1.18	<0.01
DD026974		0.98	128.5	3.47	5.83	0.16	0.05	42.0	0.034	0.06	9.9	9.6	0.28	730	1.51	<0.01
DD026975		1.69	35.3	2.86	2.99	0.08	0.02	1.38	0.031	0.05	8.4	7.9	0.17	407	1.52	<0.01
DD026976		1.35	58.8	2.09	4.41	0.07	<0.02	0.08	0.017	0.05	8.9	0.8	0.03	80	2.18	<0.01
DD026977		1.47	45.2	2.40	5.84	0.07	<0.02	0.25	0.020	0.04	7.0	1.6	0.06	221	2.60	<0.01
DD026978		2.34	34.6	2.95	1.60	0.07	<0.02	0.08	0.028	0.05	4.5	5.0	0.12	1220	1.11	<0.01
DD026979		1.08	75.4	4.31	1.96	0.12	0.03	0.17	0.036	0.05	9.3	7.7	0.16	784	3.70	<0.01
DD026980		2.06	37.6	3.92	4.31	0.10	0.04	0.07	0.037	0.06	8.7	14.0	0.31	461	3.99	<0.01
DD026981		3.64	28.0	4.17	6.46	0.09	0.02	0.06	0.031	0.06	6.8	17.6	0.22	502	3.27	<0.01
DD026982		3.18	43.3	3.64	4.16	0.08	0.03	0.03	0.031	0.05	7.3	28.7	0.31	1070	1.75	<0.01
DD026983		2.66	26.0	2.77	3.85	0.07	0.04	0.03	0.025	0.08	7.3	15.7	0.21	427	1.03	<0.01
DD026984		2.88	31.4	3.68	4.77	0.10	<0.02	0.04	0.029	0.08	9.2	13.6	0.25	449	1.87	<0.01
DD026985		2.04	37.8	4.66	6.05	0.10	0.03	0.03	0.031	0.07	10.6	49.5	0.49	363	0.82	<0.01
DD026986		3.39	30.4	5.33	7.38	0.11	0.02	0.07	0.036	0.06	7.7	30.3	0.31	1420	1.89	<0.01
DD026987		2.37	27.1	3.85	6.09	0.09	0.02	0.03	0.039	0.05	7.8	19.4	0.28	704	1.33	<0.01
DD026988		1.49	25.1	3.47	3.64	0.08	<0.02	0.06	0.028	0.06	7.5	7.8	0.13	421	1.12	<0.01
DD026989		1.49	17.8	2.95	4.29	0.09	0.03	0.11	0.029	0.06	8.0	7.8	1.09	1090	1.19	<0.01
DD026990		0.45	17.0	2.90	1.44	0.10	0.06	2.44	0.015	0.03	14.0	4.5	8.04	2000	0.40	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD026962		0.25	23.1	1270	51.3	5.4	<0.001	0.14	4.25	1.9	0.9	0.4	22.2	<0.01	0.07	0.6
DD026963		0.17	25.5	1430	112.0	4.0	0.001	0.03	9.10	4.8	1.3	0.4	39.1	<0.01	0.04	3.2
DD026964		0.21	35.8	1000	132.0	4.2	<0.001	0.04	7.67	6.3	1.6	0.3	39.4	0.01	0.05	2.8
DD026965		0.48	31.4	560	41.8	7.7	<0.001	0.02	0.88	5.7	1.0	0.4	14.8	0.01	0.04	4.1
DD026966		0.18	33.8	520	26.8	6.3	0.001	0.02	0.47	3.1	1.1	0.4	8.6	<0.01	0.04	1.2
DD026967		0.82	33.9	780	32.5	9.9	0.001	0.03	0.92	4.6	1.2	0.5	13.8	<0.01	0.06	2.8
DD026968		0.46	19.3	670	17.2	6.2	<0.001	0.03	0.72	3.0	0.7	0.4	27.7	<0.01	0.06	0.7
DD026969		0.14	41.0	440	18.7	4.1	<0.001	0.01	0.32	8.6	0.8	0.2	41.3	0.01	0.11	3.2
DD026970		1.48	14.9	270	12.7	9.7	<0.001	0.01	0.76	2.3	0.6	0.7	8.4	<0.01	0.06	1.2
DD026971		0.64	16.5	330	16.2	7.8	<0.001	<0.01	0.59	3.2	0.3	0.3	11.1	<0.01	0.07	1.7
DD026972		0.26	24.4	700	34.0	5.4	<0.001	0.06	1.97	4.4	0.8	0.3	34.1	<0.01	0.08	1.0
DD026973		0.52	26.2	460	38.3	5.7	<0.001	0.02	1.80	4.7	0.9	0.3	43.7	<0.01	0.04	2.7
DD026974		0.72	31.0	910	5860	6.8	0.001	0.10	33.4	6.8	3.5	0.4	28.3	0.01	0.05	3.6
DD026975		0.43	20.4	390	77.1	7.6	<0.001	0.02	2.05	3.3	0.6	0.4	23.2	<0.01	0.04	1.5
DD026976		0.10	15.3	910	17.4	6.5	<0.001	0.03	0.88	0.4	0.9	0.8	14.0	<0.01	0.06	<0.2
DD026977		0.11	17.2	1770	49.7	7.6	<0.001	0.05	1.35	0.3	1.4	0.7	11.2	<0.01	0.08	<0.2
DD026978		0.30	22.0	430	15.0	7.5	<0.001	<0.01	0.60	3.5	0.6	0.3	20.9	<0.01	0.04	1.2
DD026979		0.17	39.2	1240	43.1	4.7	0.002	<0.01	1.74	6.0	1.7	0.3	32.7	0.01	0.07	2.1
DD026980		0.54	29.2	1110	19.9	10.9	0.001	0.03	1.34	2.5	1.3	0.4	13.4	<0.01	0.07	0.9
DD026981		1.03	21.7	800	24.8	13.4	<0.001	0.03	0.88	2.1	0.8	0.6	8.5	<0.01	0.09	0.8
DD026982		0.52	26.9	440	30.9	11.4	<0.001	0.02	0.82	3.3	0.7	0.4	10.1	<0.01	0.06	2.5
DD026983		0.51	16.9	430	18.0	13.6	<0.001	0.02	0.58	2.2	0.5	0.5	8.8	<0.01	0.04	1.9
DD026984		0.76	23.3	450	21.5	13.6	<0.001	0.02	0.88	2.1	0.7	0.5	9.5	<0.01	0.06	0.8
DD026985		0.32	34.8	310	42.2	10.1	<0.001	<0.01	0.26	4.5	0.7	0.6	12.9	<0.01	0.07	4.7
DD026986		1.26	22.2	580	34.6	13.8	<0.001	0.03	0.67	4.6	0.8	0.5	7.9	0.01	0.10	2.6
DD026987		0.64	20.1	580	27.6	13.4	<0.001	0.03	0.50	3.0	0.5	0.5	12.0	<0.01	0.07	1.3
DD026988		0.42	17.7	500	24.1	12.6	<0.001	0.02	1.22	2.5	0.5	0.5	14.7	<0.01	0.06	1.2
DD026989		0.58	14.3	1040	22.3	18.4	<0.001	0.05	0.47	2.2	0.6	0.5	20.2	0.01	0.06	0.6
DD026990		0.17	13.3	900	74.2	5.1	<0.001	0.04	0.36	3.5	0.9	0.2	46.7	0.01	0.05	1.5



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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
DD026962		0.008	0.42	1.42	30	0.14	17.10	98	1.1	
DD026963		0.005	0.85	1.91	21	0.06	14.65	152	2.2	
DD026964		0.005	0.93	2.03	23	0.12	18.95	550	1.3	
DD026965		0.008	0.21	0.74	30	0.12	11.70	129	1.4	
DD026966		<0.005	0.13	0.67	16	0.14	14.05	115	0.5	
DD026967		0.012	0.24	1.10	45	0.19	6.33	117	1.7	
DD026968		0.009	0.12	1.22	37	0.19	8.33	61	<0.5	
DD026969		<0.005	0.05	1.23	22	<0.05	14.15	92	<0.5	
DD026970		0.033	0.19	0.63	64	0.30	2.93	58	<0.5	
DD026971		0.013	0.06	0.37	30	0.12	2.55	55	<0.5	
DD026972		<0.005	0.09	1.07	27	0.22	8.46	220	1.3	
DD026973		0.009	0.08	2.34	34	0.16	9.97	99	1.6	
DD026974		0.021	0.17	1.38	36	0.15	12.60	>10000	1.4	2.69
DD026975		0.009	0.15	0.65	27	0.11	5.02	610	<0.5	
DD026976		0.006	0.11	0.83	43	0.15	3.05	117	<0.5	
DD026977		<0.005	0.21	0.82	62	0.14	2.82	187	<0.5	
DD026978		0.008	0.06	0.47	20	0.07	3.44	90	<0.5	
DD026979		0.005	0.09	1.15	24	0.07	15.25	175	<0.5	
DD026980		0.009	0.24	0.97	51	0.16	6.34	141	1.1	
DD026981		0.013	0.19	0.79	53	0.19	3.66	98	<0.5	
DD026982		0.008	0.13	0.78	29	0.12	4.95	75	0.9	
DD026983		0.006	0.15	0.57	26	0.11	3.78	48	1.2	
DD026984		0.019	0.13	0.74	39	0.18	4.71	78	<0.5	
DD026985		0.005	0.07	0.74	25	0.05	5.71	87	1.1	
DD026986		0.023	0.14	0.88	43	0.22	4.75	89	0.6	
DD026987		0.010	0.14	0.72	38	0.14	4.93	74	<0.5	
DD026988		0.008	0.14	0.59	29	0.09	3.80	79	<0.5	
DD026989		0.008	0.15	1.14	32	0.13	7.83	92	0.5	
DD026990		<0.005	0.43	3.22	10	0.07	18.20	212	1.4	





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Project: ATAC- Regional- Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12152308**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12155843**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 13  
 This report is for 135 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023036		0.19	0.006	0.85	0.83	176.5	<0.2	<10	380	0.62	0.18	1.93	0.97	15.05	7.1	22
DD023037		0.20	0.006	0.46	0.58	144.0	<0.2	<10	300	0.52	0.19	1.19	1.32	11.20	7.3	19
DD023038		0.18	0.076	0.49	1.44	715	<0.2	<10	390	1.49	0.21	2.18	1.84	16.85	11.5	23
DD023039		0.19	0.030	0.46	1.19	416	<0.2	<10	330	1.19	0.18	6.64	3.20	19.35	9.5	19
DD023040		0.19	0.033	0.73	1.25	240	<0.2	<10	350	0.98	0.21	2.38	1.96	19.30	9.4	23
DD023041		0.20	0.009	0.45	1.43	339	<0.2	<10	290	1.07	0.22	4.08	1.43	20.9	10.0	23
DD023042		0.14	0.006	0.49	1.26	410	<0.2	<10	300	1.02	0.22	1.81	1.22	20.4	9.7	24
DD023043		0.12	0.015	0.48	1.59	349	<0.2	<10	450	1.36	0.23	3.07	1.20	22.6	11.0	25
DD023044		0.17	0.007	0.50	1.28	562	<0.2	<10	480	1.20	0.20	2.32	1.21	16.00	8.9	21
DD023045		0.19	0.004	0.63	0.85	197.5	<0.2	<10	170	0.77	0.17	4.61	1.49	16.90	7.6	17
DD023046		0.12	0.006	1.28	0.53	48.1	<0.2	<10	250	0.75	0.24	0.91	1.56	14.15	3.9	7
DD023047		0.24	0.021	0.54	1.20	1900	<0.2	<10	310	1.18	0.17	3.08	2.66	14.40	14.2	20
DD023048		0.19	0.009	0.34	0.78	144.0	<0.2	<10	200	0.64	0.28	0.10	0.78	18.30	7.5	13
DD023049		0.23	0.002	0.17	0.36	37.3	<0.2	<10	90	0.26	0.32	0.02	0.32	4.22	6.7	5
DD023050		0.24	0.001	1.01	0.57	78.7	<0.2	<10	90	0.16	0.17	0.01	0.13	11.25	2.8	6
DD023051		0.21	0.005	1.05	0.54	89.7	<0.2	<10	250	0.44	0.23	0.04	1.46	16.05	5.2	8
DD023052		0.20	0.005	0.34	0.58	92.0	<0.2	<10	180	0.51	0.26	0.05	0.53	11.20	10.7	11
DD023053		0.26	0.004	0.09	0.49	59.1	<0.2	<10	90	0.14	0.20	0.01	0.18	8.40	5.2	7
DD023054		0.22	0.004	0.38	0.50	75.6	<0.2	<10	300	0.58	0.24	0.21	0.47	14.10	7.5	6
DD023055		0.15	0.015	3.33	0.56	171.0	<0.2	10	1500	0.70	0.19	1.14	4.04	8.52	5.1	38
DD023056		0.19	0.004	2.10	0.88	283	<0.2	<10	280	0.87	0.20	1.72	3.32	24.3	9.8	16
DD023057		0.24	0.003	1.52	0.77	365	<0.2	<10	270	0.94	0.18	2.23	3.50	28.7	11.1	15
DD023058		0.19	0.002	0.51	0.70	171.0	<0.2	<10	290	0.76	0.17	2.83	2.01	28.1	9.4	11
DD023059		0.18	0.004	0.74	0.76	184.0	<0.2	<10	270	0.86	0.15	3.46	3.95	24.5	8.8	14
DD023060		0.29	0.003	0.50	1.20	190.5	<0.2	<10	220	1.03	0.24	1.95	6.61	24.5	11.8	20
DD023061		0.24	0.002	0.40	0.86	96.9	<0.2	<10	250	0.63	0.18	2.61	5.13	24.3	7.3	15
DD023062		0.19	0.003	0.52	1.09	65.5	<0.2	<10	410	0.73	0.21	1.51	5.16	14.75	7.6	21
DD023063		0.21	0.005	0.49	1.16	54.5	<0.2	<10	380	0.70	0.21	1.52	3.43	18.15	10.1	22
DD023064		0.23	0.004	1.06	0.90	29.7	<0.2	<10	640	0.72	0.20	1.20	3.57	14.95	9.8	22
DD023065		0.27	0.002	0.44	1.33	25.7	<0.2	<10	90	0.48	0.35	0.52	0.52	14.30	10.0	22
DD023066		0.30	0.003	0.60	1.68	37.1	<0.2	<10	370	0.94	0.29	0.37	1.52	20.2	14.0	27
DD023067		0.15	0.004	0.77	1.65	28.8	<0.2	<10	180	0.95	0.28	1.37	2.02	23.0	17.4	47
DD023068		0.32	0.003	0.13	1.92	28.8	<0.2	<10	170	1.00	0.30	0.18	0.57	34.9	19.9	29
DD023069		0.19	0.001	0.07	2.03	18.8	<0.2	<10	220	0.94	0.30	0.36	0.39	27.0	16.3	27
DD023070		0.18	0.002	0.40	1.13	25.0	<0.2	<10	190	0.59	0.22	1.18	0.51	23.3	9.2	19
DD023071		0.25	0.003	0.43	1.34	30.0	<0.2	<10	280	0.93	0.28	0.77	0.93	24.6	16.0	24
DD023072		0.23	0.003	0.07	1.71	43.9	<0.2	<10	130	1.36	0.38	0.06	0.41	26.6	20.4	26
DD023073		0.28	0.002	0.05	1.48	21.7	<0.2	<10	300	1.45	0.40	0.36	0.29	26.2	14.9	26
DD023074		0.18	0.005	0.06	1.41	10.3	<0.2	<10	400	0.95	0.35	1.02	0.35	17.00	16.9	25
DD023075		0.24	0.001	0.08	1.41	23.0	<0.2	<10	200	1.46	0.47	0.13	0.22	27.4	17.2	22



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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023036		1.15	24.2	2.52	2.53	0.05	0.05	0.32	0.029	0.07	10.1	7.6	0.41	328	2.05	0.01
DD023037		1.27	23.9	2.63	1.90	<0.05	0.03	0.19	0.030	0.07	5.0	4.6	0.05	363	3.28	0.01
DD023038		3.18	43.6	3.12	3.86	0.05	0.06	1.13	0.030	0.10	10.6	12.7	0.34	550	2.63	0.01
DD023039		1.71	27.7	2.65	3.14	<0.05	0.05	1.32	0.023	0.08	10.3	10.2	3.18	1390	2.01	0.02
DD023040		1.69	35.6	2.90	3.48	0.05	0.05	0.91	0.030	0.07	12.7	9.6	0.38	696	2.56	0.01
DD023041		2.10	30.5	2.90	3.67	0.05	0.06	0.70	0.029	0.08	11.7	12.1	1.14	458	1.73	0.01
DD023042		1.74	33.0	3.22	3.46	0.05	0.07	0.57	0.029	0.08	11.1	12.3	0.38	572	2.52	0.01
DD023043		2.03	39.9	2.98	4.22	0.05	0.06	0.61	0.029	0.07	13.1	11.7	0.97	691	1.67	0.01
DD023044		2.47	40.0	2.84	3.49	0.05	0.07	0.56	0.028	0.08	9.9	10.0	0.28	451	2.24	0.01
DD023045		1.43	25.6	2.61	2.35	0.05	0.05	0.61	0.026	0.08	9.8	8.8	2.11	274	3.42	0.02
DD023046		6.24	61.4	1.59	1.82	<0.05	0.06	0.65	0.039	0.12	6.0	3.5	0.10	61	1.75	0.01
DD023047		3.37	38.6	3.69	3.31	0.06	0.06	1.72	0.026	0.10	8.5	9.4	0.20	620	5.54	0.01
DD023048		15.95	37.0	3.37	3.55	0.05	0.02	0.26	0.031	0.09	8.2	4.3	0.08	374	4.22	<0.01
DD023049		17.90	64.1	2.50	2.06	<0.05	<0.02	0.06	0.033	0.11	2.0	1.1	0.02	119	5.79	<0.01
DD023050		4.26	22.9	1.16	3.80	<0.05	<0.02	0.07	0.014	0.07	5.7	1.2	0.02	38	3.55	<0.01
DD023051		13.60	51.7	2.18	2.48	0.05	0.03	0.38	0.027	0.10	6.2	1.7	0.02	83	4.80	<0.01
DD023052		12.15	51.5	3.57	2.42	0.05	0.02	0.13	0.033	0.09	5.2	3.5	0.06	343	7.61	<0.01
DD023053		11.05	36.3	1.88	3.60	<0.05	<0.02	0.22	0.018	0.08	4.2	1.1	0.02	68	5.06	<0.01
DD023054		7.17	40.4	2.77	1.84	0.05	0.03	0.27	0.036	0.10	6.5	4.2	0.11	167	5.41	0.01
DD023055		2.52	58.4	2.62	1.94	0.09	0.08	0.63	0.036	0.08	6.4	3.5	0.07	105	12.65	<0.01
DD023056		1.18	30.5	2.71	2.58	0.05	0.07	1.36	0.031	0.10	16.3	9.0	0.24	335	4.71	0.01
DD023057		1.17	33.6	2.45	2.13	0.05	0.06	0.90	0.033	0.12	18.1	7.2	0.33	384	5.39	0.01
DD023058		0.85	28.3	2.29	1.83	<0.05	0.06	0.16	0.031	0.12	15.4	6.0	0.21	247	5.22	0.01
DD023059		1.06	28.0	2.44	1.94	0.05	0.06	0.26	0.030	0.10	18.9	5.9	0.54	215	8.12	0.01
DD023060		0.89	36.9	3.54	3.57	0.06	0.08	0.29	0.036	0.09	16.3	13.1	0.62	487	13.20	0.01
DD023061		1.15	21.0	2.50	2.54	0.05	0.05	0.17	0.028	0.08	15.2	7.5	0.50	367	11.00	0.01
DD023062		1.44	41.0	2.56	3.60	0.05	0.07	0.29	0.031	0.08	8.7	14.5	0.32	240	10.25	0.01
DD023063		1.55	32.7	2.68	3.83	0.05	0.06	0.17	0.030	0.07	10.2	17.4	0.48	282	10.00	0.01
DD023064		2.86	56.9	2.52	3.19	0.06	0.06	0.21	0.036	0.08	8.1	12.6	0.23	405	39.7	0.01
DD023065		1.93	32.9	4.58	6.69	0.06	0.02	0.07	0.034	0.09	6.7	13.3	0.29	458	6.36	0.01
DD023066		2.58	51.1	4.62	5.43	0.06	0.06	0.16	0.044	0.11	9.5	28.1	0.42	478	10.55	0.01
DD023067		1.44	82.9	4.15	4.33	0.06	0.07	0.24	0.035	0.10	13.2	32.3	0.74	650	3.16	0.01
DD023068		1.45	54.7	4.84	4.98	0.08	0.07	0.12	0.034	0.09	14.6	36.8	0.63	958	1.55	0.01
DD023069		1.96	47.1	4.66	5.96	0.06	0.06	0.06	0.039	0.12	11.9	39.4	0.56	607	3.77	0.01
DD023070		1.08	25.0	3.46	3.70	0.05	0.10	0.12	0.034	0.13	10.3	18.5	0.42	219	4.81	0.01
DD023071		1.34	42.0	4.18	4.43	0.06	0.10	0.18	0.038	0.13	10.9	23.0	0.45	859	5.30	0.01
DD023072		1.58	48.3	5.21	5.45	0.10	0.08	0.09	0.050	0.09	8.2	32.9	0.39	1050	1.55	0.01
DD023073		1.39	30.9	5.26	4.72	0.10	0.07	0.05	0.042	0.12	8.7	25.0	0.39	1300	0.87	0.01
DD023074		0.93	24.4	3.90	5.37	0.07	0.06	0.05	0.037	0.13	5.9	26.0	0.51	1080	0.63	0.01
DD023075		1.24	28.5	4.99	4.42	0.11	0.08	0.12	0.049	0.14	10.9	20.8	0.28	1120	0.78	0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023036		0.39	39.6	720	21.4	6.9	<0.001	0.06	1.02	3.7	2.0	0.4	36.6	<0.01	0.07	1.2
DD023037		0.31	38.3	620	22.7	9.5	0.001	0.08	1.33	2.9	2.8	0.4	28.0	<0.01	0.10	1.1
DD023038		0.56	96.8	1070	41.4	11.1	<0.001	0.09	2.33	3.5	2.0	0.5	34.1	0.01	0.06	0.8
DD023039		0.47	48.7	890	41.0	8.6	<0.001	0.06	1.61	2.6	1.5	0.4	55.6	<0.01	0.05	0.7
DD023040		0.38	45.0	1210	26.5	8.7	<0.001	0.10	1.47	2.2	2.4	0.4	32.3	0.01	0.08	0.4
DD023041		0.65	46.2	930	33.5	9.8	<0.001	0.07	1.46	3.0	1.6	0.5	38.3	<0.01	0.06	1.2
DD023042		0.46	50.2	880	39.7	7.7	<0.001	0.07	1.97	2.9	1.7	0.5	28.7	<0.01	0.06	1.1
DD023043		0.60	46.0	1190	30.8	8.5	<0.001	0.08	1.34	2.3	1.6	0.5	31.2	0.01	0.05	0.6
DD023044		0.46	62.5	1130	34.6	9.3	<0.001	0.10	1.60	2.3	1.8	0.4	32.3	<0.01	0.07	0.7
DD023045		0.32	38.2	850	35.8	6.8	<0.001	0.07	1.78	2.9	2.1	0.3	52.6	<0.01	0.06	1.0
DD023046		0.42	25.5	610	41.6	14.8	0.001	0.03	2.48	4.2	3.5	0.4	19.1	<0.01	0.06	3.4
DD023047		0.45	120.5	1650	41.6	9.9	<0.001	0.13	2.62	2.4	2.6	0.4	43.0	<0.01	0.06	0.6
DD023048		0.30	29.1	900	31.8	19.8	<0.001	0.02	2.04	1.5	1.7	0.5	10.8	<0.01	0.06	0.3
DD023049		0.18	35.3	480	18.3	14.2	<0.001	0.01	3.01	2.4	2.5	0.5	6.6	<0.01	0.11	0.7
DD023050		0.25	13.8	160	14.5	13.7	<0.001	<0.01	1.45	1.4	1.1	0.6	6.2	<0.01	0.05	1.1
DD023051		0.18	30.4	530	22.8	17.7	<0.001	0.02	2.32	3.0	2.8	0.5	11.7	<0.01	0.07	1.4
DD023052		0.32	44.3	780	29.6	15.8	<0.001	0.01	3.43	3.0	2.9	0.5	9.9	<0.01	0.08	2.2
DD023053		0.24	25.2	380	11.6	13.2	<0.001	<0.01	1.92	1.8	1.7	0.6	5.5	<0.01	0.08	0.8
DD023054		0.22	25.0	640	23.5	13.3	0.001	<0.01	1.95	3.3	2.5	0.4	14.5	<0.01	0.06	3.6
DD023055		0.13	82.9	1890	29.7	8.7	0.007	0.11	4.79	4.8	9.5	0.5	156.0	0.01	0.12	1.3
DD023056		0.33	51.9	730	176.5	9.8	0.001	0.06	3.83	3.7	3.3	0.4	38.9	<0.01	0.05	1.7
DD023057		0.27	70.8	760	91.8	9.7	0.001	0.06	2.84	3.5	3.1	0.3	38.9	0.01	0.04	1.5
DD023058		0.23	59.3	780	14.8	9.2	0.001	0.08	1.83	2.7	2.7	0.3	45.6	<0.01	0.04	1.1
DD023059		0.22	70.7	840	14.1	7.8	<0.001	0.08	2.36	3.1	3.6	0.3	47.4	<0.01	0.04	1.1
DD023060		0.35	79.6	580	31.0	7.8	0.001	0.06	3.83	4.9	3.4	0.5	36.3	0.01	0.07	2.4
DD023061		0.36	55.0	870	15.9	8.1	0.001	0.08	2.73	2.8	3.3	0.4	35.4	<0.01	0.06	1.1
DD023062		0.35	90.7	940	15.9	11.5	0.011	0.10	4.58	3.1	5.7	0.5	42.2	<0.01	0.08	0.9
DD023063		0.47	69.1	650	15.0	7.7	0.001	0.05	2.96	4.1	2.3	0.5	34.6	<0.01	0.06	1.5
DD023064		0.25	141.0	820	13.6	8.6	0.004	0.06	8.25	3.8	5.0	0.6	39.8	<0.01	0.13	1.1
DD023065		0.74	21.7	450	22.6	15.4	<0.001	0.02	2.78	3.1	1.7	0.7	21.6	<0.01	0.08	2.5
DD023066		0.39	55.8	680	30.2	12.9	0.001	0.03	8.01	4.8	2.5	0.5	20.4	<0.01	0.10	2.8
DD023067		0.23	73.6	1000	25.2	9.4	<0.001	0.02	2.92	5.8	2.5	0.4	39.9	<0.01	0.09	4.8
DD023068		0.38	47.5	510	31.8	9.2	<0.001	<0.01	0.94	5.9	1.0	0.4	16.3	<0.01	0.07	5.5
DD023069		0.33	37.6	580	26.4	13.3	<0.001	0.01	0.84	5.2	0.7	0.5	17.9	<0.01	0.07	3.4
DD023070		0.35	19.6	1430	20.5	11.0	0.001	0.05	2.51	5.3	2.5	0.5	39.9	<0.01	0.05	3.7
DD023071		0.43	35.8	1020	26.4	11.9	0.001	0.02	2.24	6.7	1.7	0.5	25.8	<0.01	0.06	4.3
DD023072		0.32	31.1	470	44.3	14.1	<0.001	0.01	0.57	6.2	0.8	0.7	10.1	<0.01	0.07	4.7
DD023073		0.38	28.1	450	39.0	13.6	<0.001	0.01	0.35	5.9	0.6	0.7	18.4	<0.01	0.03	5.5
DD023074		0.49	22.6	530	28.8	15.1	<0.001	0.04	0.26	4.3	0.6	0.8	35.9	<0.01	0.03	2.4
DD023075		0.34	27.7	340	42.3	15.2	<0.001	0.01	0.26	6.7	0.7	0.8	14.7	<0.01	0.03	6.6

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023036		0.008	0.26	1.88	48	0.24	18.70	180	1.3
DD023037		0.005	0.23	2.30	52	0.18	10.35	206	1.1
DD023038		0.008	0.90	4.10	72	0.93	23.4	491	1.7
DD023039		0.011	0.58	2.36	56	0.58	16.35	333	1.1
DD023040		0.008	0.34	2.72	61	0.48	24.8	222	0.9
DD023041		0.010	0.39	2.55	61	0.58	17.10	274	1.7
DD023042		0.008	0.36	2.10	61	0.55	17.15	316	1.5
DD023043		0.011	0.33	1.51	55	0.66	20.1	221	1.3
DD023044		0.006	0.39	3.87	55	0.70	16.70	369	1.7
DD023045		0.007	0.41	2.02	44	0.29	14.90	265	1.2
DD023046		<0.005	0.68	2.96	40	0.24	12.40	142	1.9
DD023047		0.005	0.88	9.15	68	0.66	19.90	727	1.7
DD023048		0.007	1.01	1.63	62	0.18	8.23	200	<0.5
DD023049		<0.005	0.34	0.48	39	0.05	2.10	244	<0.5
DD023050		0.005	0.37	0.30	59	0.13	1.64	110	<0.5
DD023051		<0.005	0.60	1.04	55	0.11	14.55	210	<0.5
DD023052		0.006	0.66	0.96	53	0.10	5.76	246	<0.5
DD023053		<0.005	0.35	0.34	71	0.09	1.72	159	<0.5
DD023054		<0.005	0.47	1.46	44	0.08	10.75	169	0.7
DD023055		<0.005	0.82	4.55	117	0.24	28.5	422	2.0
DD023056		0.005	1.07	2.48	91	0.19	20.1	747	1.7
DD023057		<0.005	0.94	1.79	81	0.19	23.2	610	1.5
DD023058		<0.005	0.74	1.85	55	0.10	18.00	410	1.4
DD023059		<0.005	0.74	1.87	83	0.11	27.5	619	1.4
DD023060		<0.005	0.71	1.79	138	0.15	26.6	585	2.1
DD023061		0.007	0.52	2.85	113	0.11	17.65	536	1.2
DD023062		0.006	1.09	6.31	273	0.17	16.70	452	2.0
DD023063		0.010	0.51	2.74	158	0.16	16.00	440	1.7
DD023064		0.006	1.00	4.06	298	0.22	23.9	583	1.8
DD023065		0.008	0.40	0.78	91	0.18	3.44	116	0.7
DD023066		0.005	0.95	3.37	129	0.14	10.15	449	1.7
DD023067		<0.005	0.17	1.28	103	0.09	11.75	279	2.5
DD023068		0.007	0.22	1.02	53	0.10	11.35	162	2.3
DD023069		<0.005	0.27	1.62	58	0.10	8.40	157	1.7
DD023070		<0.005	0.25	1.68	58	<0.05	9.37	144	3.5
DD023071		0.006	0.27	1.29	47	0.07	10.90	256	3.4
DD023072		<0.005	0.37	0.88	35	0.09	8.20	163	2.2
DD023073		0.005	0.20	0.97	28	0.07	10.25	129	2.1
DD023074		0.008	0.15	1.33	29	0.06	5.96	112	1.5
DD023075		<0.005	0.25	1.02	26	0.06	12.70	107	1.8



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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023076		0.18	0.005	1.99	0.79	39.1	<0.2	<10	460	1.13	0.31	0.91	2.04	25.5	14.8	20
DD023077		0.15	0.003	0.45	1.44	29.2	<0.2	<10	300	1.08	0.26	1.29	1.49	30.1	13.5	23
DD023078		0.23	0.002	0.12	1.74	24.7	<0.2	<10	310	0.97	0.27	0.58	0.33	29.5	12.5	29
DD023079		0.24	0.003	0.37	1.71	22.2	<0.2	<10	350	0.99	0.26	0.61	0.86	30.9	12.6	27
DD023080		0.18	0.003	0.16	1.73	23.5	<0.2	<10	310	1.10	0.31	0.35	1.02	27.1	12.6	27
DD023081		0.13	0.002	0.41	1.42	17.4	<0.2	<10	220	1.60	0.26	0.84	2.33	35.9	10.2	19
DD023082		0.21	0.003	0.37	1.14	21.5	<0.2	<10	250	1.16	0.23	1.83	1.94	26.5	9.6	17
DD023083		0.17	0.002	0.34	1.53	25.6	<0.2	<10	340	1.51	0.28	1.29	0.48	28.3	11.5	22
DD023084		0.19	0.003	0.30	1.18	23.5	<0.2	<10	230	1.09	0.25	3.02	1.43	18.95	9.4	18
DD023085		0.14	0.004	0.22	1.16	23.0	<0.2	<10	240	0.92	0.24	3.07	1.25	17.95	9.6	17
DD023086		0.17	0.003	0.32	1.19	26.9	<0.2	<10	230	1.16	0.29	1.92	1.47	21.8	11.8	19
DD023087		0.21	0.004	1.54	0.67	17.2	<0.2	10	1710	0.66	0.22	1.09	0.49	5.17	7.3	19
DD023088		0.15	0.006	3.36	0.44	27.2	<0.2	<10	1810	0.57	0.21	0.74	1.76	4.93	8.2	20
DD023089		0.29	0.003	2.28	0.43	36.8	<0.2	<10	750	0.41	0.19	0.05	0.61	4.73	4.0	27
DD023090		0.20	0.006	3.26	0.40	20.3	<0.2	<10	1410	0.48	0.17	0.70	0.92	6.09	3.7	32
DD023091		0.33	0.009	4.97	0.69	24.6	<0.2	10	1000	0.76	0.23	1.37	1.38	9.11	9.0	34
DD023092		0.24	0.005	3.26	0.59	17.7	<0.2	<10	1380	0.46	0.18	1.14	0.29	8.18	3.4	37
DD023093		0.20	0.003	1.54	0.54	18.8	<0.2	10	730	0.49	0.19	1.30	0.30	7.19	4.9	21
DD023094		0.16	0.005	3.90	0.76	80.3	<0.2	<10	1300	0.72	0.22	1.13	2.20	14.75	7.7	42
DD023095		0.21	0.008	3.39	0.72	49.0	<0.2	10	1270	0.82	0.22	2.06	2.92	9.08	8.9	33
DD023096		0.20	0.004	3.95	0.40	40.2	<0.2	10	1280	0.57	0.17	2.38	3.27	7.56	5.7	35
DD023097		0.27	0.005	4.25	0.47	37.9	<0.2	10	1230	0.62	0.20	1.78	2.22	7.87	5.6	39
DD023098		0.24	0.003	5.63	0.53	37.9	<0.2	10	1330	0.74	0.18	2.13	10.50	9.15	4.9	66
DD023099		0.27	0.003	0.35	1.77	73.0	<0.2	<10	590	0.75	0.23	0.51	0.35	26.0	9.2	33
DD023100		0.22	0.003	0.55	1.79	97.1	<0.2	<10	390	0.71	0.21	0.90	1.31	32.5	10.5	35
DD023101		0.26	0.007	0.50	1.68	213	<0.2	<10	280	0.99	0.24	1.17	2.11	31.4	10.9	31
DD023102		0.13	0.005	0.39	1.54	435	<0.2	<10	290	1.03	0.26	2.29	11.80	31.8	11.5	30
DD023103		0.22	0.004	0.48	1.12	365	<0.2	<10	180	0.88	0.17	6.35	3.66	25.1	9.8	21
DD023104		0.21	0.006	0.58	1.60	469	<0.2	<10	310	1.06	0.26	1.35	4.31	28.9	12.9	31
DD023105		0.17	0.008	0.65	1.51	549	<0.2	<10	270	1.34	0.25	1.92	5.00	27.7	12.5	30
DD023106		0.20	0.012	0.75	1.44	1060	<0.2	<10	270	1.31	0.23	2.61	5.20	25.7	14.2	27
DD023107		0.19	0.024	0.61	1.22	791	<0.2	<10	250	1.12	0.20	3.03	5.16	20.4	9.7	23
DD023108		0.21	0.264	0.62	1.06	1370	0.2	10	800	0.97	0.20	4.37	1.82	16.80	4.8	23
DD023109		0.21	0.005	1.05	1.02	623	<0.2	<10	580	0.91	0.21	0.91	4.93	26.0	8.8	20
DD023110		0.19	0.010	1.16	1.75	4110	<0.2	<10	590	1.35	0.21	0.43	18.45	24.9	9.7	33
DD026991		0.23	0.001	0.16	1.66	115.5	<0.2	<10	240	0.56	0.23	2.61	1.41	22.8	8.3	30
DD026992		0.27	0.006	0.34	1.75	350	<0.2	<10	380	0.83	0.23	2.59	1.55	26.3	9.7	31
DD026993		0.26	0.012	0.52	1.03	246	<0.2	<10	380	0.61	0.17	2.93	0.95	15.30	6.2	21
DD026994		0.22	0.021	0.36	1.36	519	<0.2	10	260	1.03	0.18	3.39	1.41	14.85	7.0	25
DD026995		0.24	<0.001	0.29	1.24	211	<0.2	<10	270	0.75	0.16	3.85	1.18	12.20	6.6	19



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023076		1.05	94.6	3.83	2.51	0.12	0.12	0.20	0.068	0.15	15.3	8.2	0.18	341	13.20	0.02
DD023077		1.00	42.9	3.61	4.06	0.11	0.07	0.16	0.039	0.11	15.4	20.2	0.45	567	2.89	0.02
DD023078		1.62	33.3	3.95	5.00	0.10	0.08	0.16	0.037	0.10	12.0	23.1	0.51	611	1.64	0.01
DD023079		1.50	26.2	3.62	4.66	0.11	0.08	0.09	0.037	0.09	13.0	19.4	0.44	595	2.83	0.01
DD023080		1.47	30.2	3.74	5.41	0.10	0.10	0.12	0.040	0.12	11.7	26.2	0.45	521	3.42	0.01
DD023081		1.44	34.8	3.41	3.18	0.12	0.13	0.08	0.037	0.10	13.3	25.9	0.24	641	3.90	0.01
DD023082		0.93	40.2	3.14	2.96	0.12	0.11	0.11	0.033	0.10	16.1	18.2	0.51	298	3.70	0.02
DD023083		1.11	38.2	3.76	4.04	0.12	0.12	0.12	0.038	0.09	16.3	21.1	0.35	543	2.50	0.01
DD023084		1.05	34.9	3.29	3.29	0.09	0.10	0.11	0.029	0.10	12.9	16.7	0.97	540	2.18	0.02
DD023085		0.99	33.6	3.23	3.25	0.08	0.12	0.11	0.030	0.10	10.3	16.9	1.04	517	1.93	0.02
DD023086		0.97	41.9	3.36	3.78	0.11	0.13	0.14	0.037	0.12	12.9	20.7	0.61	404	2.92	0.01
DD023087		0.55	43.8	2.53	1.85	0.08	0.09	0.18	0.041	0.09	3.4	2.9	0.05	120	7.91	0.02
DD023088		0.52	75.1	3.19	1.12	0.11	0.08	0.18	0.041	0.09	3.8	1.7	0.07	120	7.64	0.02
DD023089		0.60	44.1	3.56	1.63	0.10	0.03	0.12	0.034	0.07	3.2	0.9	0.02	67	7.78	0.02
DD023090		0.29	57.7	1.76	1.25	0.10	0.06	0.23	0.027	0.10	5.2	1.4	0.04	61	5.00	0.02
DD023091		3.14	97.0	3.13	1.31	0.14	0.10	0.33	0.049	0.13	6.4	2.1	0.04	112	5.96	0.02
DD023092		1.08	41.5	1.98	1.69	0.08	0.05	0.21	0.028	0.07	5.3	2.5	0.06	131	3.08	0.02
DD023093		1.85	35.0	2.00	1.55	0.07	0.05	0.12	0.032	0.09	4.2	2.7	0.05	146	3.70	0.02
DD023094		1.18	41.9	4.11	2.02	0.15	0.06	0.23	0.043	0.10	9.1	4.6	0.05	188	12.65	0.02
DD023095		1.07	74.8	4.04	1.84	0.15	0.09	0.32	0.052	0.13	6.7	3.1	0.07	124	16.25	0.02
DD023096		1.15	55.8	3.23	1.29	0.13	0.07	0.25	0.033	0.10	5.7	1.5	0.07	102	13.15	0.02
DD023097		0.85	50.3	2.99	1.52	0.11	0.07	0.25	0.036	0.09	5.9	2.1	0.08	121	10.65	0.02
DD023098		0.87	51.8	2.33	1.84	0.12	0.08	0.23	0.035	0.08	7.7	3.1	0.08	108	17.85	0.02
DD023099		3.05	21.8	2.90	5.54	0.08	0.04	0.25	0.036	0.06	12.2	13.6	0.38	280	3.77	0.02
DD023100		2.10	21.4	2.93	4.72	0.10	0.06	0.32	0.031	0.06	16.8	13.0	0.47	385	3.42	0.02
DD023101		1.46	21.3	3.26	4.69	0.09	0.04	0.96	0.032	0.07	15.5	12.3	0.46	479	3.16	0.02
DD023102		1.41	18.0	3.29	4.03	0.10	0.03	0.50	0.035	0.06	19.2	9.6	0.27	848	2.46	0.02
DD023103		1.32	18.4	2.72	2.70	0.08	0.04	0.51	0.025	0.07	12.0	10.2	1.17	464	3.39	0.02
DD023104		1.75	23.3	3.78	4.20	0.10	0.05	0.59	0.038	0.09	13.9	13.2	0.48	664	3.54	0.02
DD023105		1.70	26.0	3.50	4.03	0.09	0.05	0.59	0.033	0.08	14.4	12.7	0.46	578	3.54	0.02
DD023106		1.52	27.0	4.06	3.65	0.10	0.06	0.69	0.032	0.09	13.5	12.1	0.93	560	5.34	0.02
DD023107		1.46	23.1	3.16	2.97	0.08	0.04	0.86	0.028	0.07	10.8	9.1	0.35	591	2.96	0.02
DD023108		2.83	34.2	2.82	3.62	0.07	0.07	2.17	0.031	0.12	9.3	5.4	0.98	277	2.75	0.01
DD023109		2.72	38.5	3.12	2.77	0.08	0.08	0.59	0.037	0.09	15.7	6.7	0.19	544	4.78	0.01
DD023110		5.06	42.5	3.61	2.94	0.10	0.12	0.96	0.036	0.11	14.9	6.2	0.16	335	10.55	0.01
DD026991		1.26	16.1	2.76	4.71	0.06	0.03	0.19	0.027	0.06	13.3	9.9	0.38	509	1.22	0.02
DD026992		1.75	23.1	3.14	4.55	0.07	0.04	0.57	0.028	0.06	18.7	9.8	0.39	1020	3.75	0.02
DD026993		1.32	27.0	2.36	2.86	0.07	0.05	0.61	0.027	0.06	13.4	5.9	0.19	300	4.62	0.01
DD026994		2.10	34.5	2.51	3.55	0.07	0.08	0.73	0.026	0.10	16.1	9.6	0.21	408	2.76	0.01
DD026995		1.54	25.9	1.96	3.13	0.05	0.05	0.32	0.020	0.05	8.2	7.0	0.19	396	1.48	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD023076		0.17	110.0	2220	23.1	8.9	0.001	0.08	5.85	5.9	6.0	0.6	44.8	<0.01	0.16	2.4
DD023077		0.39	40.0	1070	21.2	9.5	0.001	0.05	1.39	4.4	1.6	0.5	52.3	0.01	0.06	1.4
DD023078		0.54	29.9	850	18.3	11.1	<0.001	0.04	0.77	4.5	1.1	0.5	30.2	<0.01	0.06	1.8
DD023079		0.51	31.5	910	24.4	12.5	<0.001	0.05	1.33	3.9	1.4	0.5	29.3	0.01	0.05	1.5
DD023080		0.47	31.0	1250	20.2	16.2	<0.001	0.05	1.12	4.7	1.2	0.6	19.6	<0.01	0.06	1.9
DD023081		0.23	39.3	1700	20.4	20.8	0.002	0.11	1.52	4.7	1.9	0.4	41.9	0.01	0.05	2.3
DD023082		0.23	41.1	1110	32.5	10.4	0.002	0.11	1.75	4.9	2.0	0.4	84.2	0.01	0.05	2.0
DD023083		0.25	34.1	1490	24.3	12.6	<0.001	0.09	1.08	4.4	1.5	0.5	34.9	0.01	0.05	1.7
DD023084		0.25	32.3	1180	21.8	12.1	0.001	0.12	1.15	3.9	1.4	0.4	48.7	<0.01	0.04	1.5
DD023085		0.28	27.8	1170	21.3	13.4	<0.001	0.13	0.94	3.9	1.1	0.4	56.8	<0.01	0.04	1.7
DD023086		0.31	36.9	1050	24.6	12.4	0.001	0.10	1.38	5.0	1.5	0.5	50.9	<0.01	0.05	2.2
DD023087		0.10	56.1	900	12.0	7.0	0.004	0.08	1.30	6.2	3.8	0.5	138.5	0.01	0.11	1.0
DD023088		0.05	144.0	940	11.3	5.9	0.002	0.08	1.86	7.2	7.7	0.4	119.0	0.01	0.13	1.6
DD023089		0.14	77.9	1640	9.7	7.2	0.002	0.21	1.93	3.2	6.3	0.5	70.5	<0.01	0.18	0.8
DD023090		0.07	68.1	1530	8.0	4.9	0.002	0.13	1.27	3.4	6.5	0.4	105.5	0.01	0.30	1.3
DD023091		0.09	118.0	2300	11.8	10.6	0.004	0.19	1.96	6.6	9.4	0.4	138.0	0.01	0.15	2.6
DD023092		0.16	40.2	1310	8.0	7.2	0.003	0.12	1.05	2.9	5.3	0.4	71.3	<0.01	0.09	0.9
DD023093		0.16	36.6	820	9.6	9.2	0.004	0.13	1.12	2.5	4.5	0.3	66.7	<0.01	0.11	0.5
DD023094		0.16	94.7	2530	17.9	7.8	0.002	0.15	2.88	5.1	7.5	0.5	176.5	0.01	0.12	1.3
DD023095		0.12	154.0	3010	14.1	8.0	0.006	0.23	2.96	6.5	10.5	0.6	280	0.01	0.14	1.4
DD023096		0.08	101.5	2280	10.6	6.8	0.006	0.14	3.00	5.0	11.1	0.4	281	0.01	0.12	1.2
DD023097		0.10	84.5	1970	11.3	6.4	0.008	0.14	2.61	4.9	9.3	0.5	231	0.01	0.12	1.0
DD023098		0.11	88.0	2270	10.1	6.5	0.010	0.18	4.55	3.4	11.4	0.5	266	0.01	0.11	0.6
DD023099		0.73	34.1	1070	25.1	13.8	0.001	0.04	1.37	2.9	1.7	0.6	35.6	<0.01	0.08	1.1
DD023100		0.80	41.7	1240	26.4	9.3	0.001	0.03	1.41	3.7	1.6	0.6	32.6	0.01	0.06	1.8
DD023101		0.69	38.5	690	43.2	10.7	<0.001	0.05	1.46	3.0	2.1	0.5	29.0	0.01	0.05	0.9
DD023102		0.64	54.7	1260	40.0	9.4	0.001	0.14	1.63	1.8	3.5	0.6	30.2	0.01	0.06	0.4
DD023103		0.52	52.5	1090	42.2	7.5	<0.001	0.04	2.08	3.0	2.2	0.4	60.6	<0.01	0.04	1.5
DD023104		0.63	69.6	740	46.8	9.0	<0.001	0.07	2.15	3.4	2.3	0.5	29.7	<0.01	0.06	1.3
DD023105		0.57	67.9	1060	51.2	9.0	<0.001	0.09	2.28	2.7	2.5	0.5	31.5	0.01	0.06	0.9
DD023106		0.50	111.0	1010	80.8	8.0	<0.001	0.07	2.76	3.3	2.8	0.5	35.6	0.01	0.06	1.2
DD023107		0.43	56.4	1290	55.2	7.3	<0.001	0.13	2.43	2.0	2.0	0.4	29.1	0.01	0.05	0.4
DD023108		0.28	31.5	1190	54.8	9.5	<0.001	0.20	2.67	2.4	1.7	0.5	68.3	0.01	0.05	0.8
DD023109		0.23	62.6	1260	68.8	10.9	0.001	0.06	2.62	4.4	2.8	0.4	43.7	0.01	0.07	1.6
DD023110		0.33	174.0	2070	146.5	15.1	0.001	0.10	5.46	3.5	4.1	0.5	95.5	0.01	0.08	1.6
DD026991		0.82	23.5	1200	33.6	8.3	<0.001	0.13	0.73	1.5	1.1	0.5	23.2	0.01	0.05	0.3
DD026992		0.69	44.2	1420	20.5	10.0	0.001	0.13	1.43	3.1	2.0	0.5	23.8	0.01	0.06	0.4
DD026993		0.43	42.2	1230	18.2	6.7	0.001	0.15	1.36	1.4	2.8	0.4	34.6	0.01	0.08	0.3
DD026994		0.50	54.7	1800	25.3	8.5	0.001	0.19	1.56	1.9	2.1	0.4	37.0	0.01	0.06	0.4
DD026995		0.50	32.7	1330	16.9	5.9	<0.001	0.20	0.91	1.3	1.6	0.3	33.7	0.01	0.05	0.3



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023076		<0.005	0.47	3.97	188	0.11	20.8	572	3.1
DD023077		0.008	0.26	1.56	57	0.12	16.35	204	1.6
DD023078		0.012	0.20	1.58	48	0.18	9.61	119	1.9
DD023079		0.010	0.32	1.85	71	0.14	13.05	234	1.6
DD023080		0.008	0.28	1.84	78	0.13	12.10	212	2.4
DD023081		<0.005	0.24	2.55	52	0.08	27.3	254	2.7
DD023082		<0.005	0.25	1.96	56	0.08	25.1	265	2.4
DD023083		<0.005	0.27	2.18	55	0.11	22.5	162	2.3
DD023084		<0.005	0.27	1.71	46	0.07	17.85	205	2.6
DD023085		0.005	0.24	1.47	40	0.07	13.40	192	2.9
DD023086		<0.005	0.26	1.50	52	0.08	17.80	204	3.1
DD023087		<0.005	0.15	4.29	45	0.07	23.6	186	2.9
DD023088		<0.005	0.22	2.64	48	0.06	40.6	367	1.9
DD023089		<0.005	0.22	2.67	84	0.10	16.20	250	<0.5
DD023090		<0.005	0.12	2.78	70	0.07	27.3	186	1.4
DD023091		<0.005	0.29	4.61	47	0.08	50.5	379	2.3
DD023092		<0.005	0.14	2.62	57	0.07	17.15	120	1.0
DD023093		<0.005	0.22	2.93	41	0.06	15.25	138	1.1
DD023094		<0.005	0.51	4.85	98	0.19	39.7	313	0.9
DD023095		<0.005	0.53	10.40	69	0.15	48.6	508	2.0
DD023096		<0.005	0.38	5.39	68	0.16	36.8	348	1.9
DD023097		<0.005	0.29	6.18	81	0.16	33.1	326	1.9
DD023098		<0.005	0.41	6.74	170	0.21	36.5	400	2.0
DD023099		0.020	0.64	2.17	106	0.34	9.09	158	0.9
DD023100		0.029	0.35	1.76	88	0.25	17.90	179	1.3
DD023101		0.034	0.30	1.12	71	0.34	16.10	189	0.8
DD023102		0.019	0.28	2.26	85	0.54	24.6	338	0.5
DD023103		0.020	0.36	1.45	52	0.57	13.60	338	0.9
DD023104		0.017	0.55	1.03	76	0.47	17.30	401	1.0
DD023105		0.015	0.51	1.36	75	0.55	19.95	419	1.0
DD023106		0.014	0.64	1.04	78	0.65	20.8	541	1.1
DD023107		0.010	0.58	1.36	65	0.42	18.35	480	0.8
DD023108		<0.005	1.03	1.86	75	0.75	16.80	279	1.5
DD023109		<0.005	0.94	1.83	112	0.18	25.2	498	1.5
DD023110		0.007	8.32	6.32	371	0.34	45.7	1400	2.5
DD026991		0.024	0.17	4.54	78	0.24	16.35	111	0.6
DD026992		0.021	0.33	6.16	89	0.28	27.8	222	0.7
DD026993		0.010	0.36	4.69	61	0.22	21.1	194	1.0
DD026994		0.009	0.46	7.74	68	0.62	33.1	283	1.8
DD026995		0.011	0.23	5.07	50	0.29	15.20	135	1.2





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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD026996		0.22	0.056	0.33	1.26	372	<0.2	<10	270	1.02	0.17	3.94	2.07	15.00	7.1	23
DD026997		0.21	0.009	0.45	1.59	585	<0.2	<10	300	1.22	0.22	2.73	1.65	16.75	9.4	28
DD026998		0.31	0.002	0.60	1.51	323	<0.2	<10	300	0.94	0.23	2.65	2.37	25.0	10.6	29
DD026999		0.25	0.004	0.51	1.54	537	<0.2	<10	220	1.04	0.24	3.38	3.53	27.7	10.5	30
DD027000		0.31	0.007	0.41	1.09	6520	<0.2	<10	180	0.97	0.16	16.30	6.21	14.50	21.5	21
ZZ59501		0.11	0.004	1.04	0.81	832	<0.2	10	240	0.93	0.18	3.00	2.54	12.55	6.7	15
ZZ59502		0.32	<0.001	0.92	0.58	425	<0.2	<10	110	0.25	0.28	0.02	0.34	7.43	7.5	12
ZZ59503		0.34	<0.001	1.98	0.44	193.5	<0.2	<10	130	0.20	0.20	0.03	0.30	10.70	5.2	10
ZZ59504		0.37	0.008	6.83	0.48	1020	<0.2	<10	240	1.04	0.28	0.26	12.75	21.6	12.3	11
ZZ59505		0.23	0.005	0.85	0.55	148.5	<0.2	<10	360	0.72	0.24	0.59	1.43	13.05	7.3	9
ZZ59506		0.43	0.005	1.06	0.87	166.5	<0.2	<10	380	1.64	0.25	0.54	2.83	26.4	10.2	15
ZZ59507		0.20	<0.001	0.70	1.00	298	<0.2	10	450	0.79	0.21	2.16	1.92	14.25	8.0	18
ZZ59508		0.23	0.003	0.90	1.06	152.5	<0.2	<10	480	0.99	0.22	1.46	2.81	19.35	10.5	19
ZZ59509		0.22	0.004	0.69	1.16	121.5	<0.2	<10	430	0.90	0.25	1.18	1.93	20.5	10.0	21
ZZ59510		0.18	<0.001	1.50	0.43	168.0	<0.2	10	210	0.45	0.07	4.99	14.45	7.23	3.1	9
ZZ59511		0.22	0.003	2.73	0.78	551	<0.2	<10	220	0.91	0.18	5.39	7.94	29.9	8.6	22
ZZ59512		0.20	<0.001	1.76	1.05	140.0	<0.2	<10	330	1.04	0.18	2.61	6.11	37.5	10.0	16
ZZ59513		0.23	<0.001	0.87	0.67	101.0	<0.2	<10	190	0.77	0.17	2.92	2.83	30.1	9.6	13
ZZ59514		0.18	0.001	0.57	0.79	95.5	<0.2	<10	250	0.82	0.19	2.97	1.94	33.8	9.7	16
ZZ59515		0.30	<0.001	0.34	1.48	193.5	<0.2	<10	270	0.87	0.28	0.81	5.08	31.7	11.3	25
ZZ59516		0.20	<0.001	0.92	0.68	123.0	<0.2	<10	370	0.64	0.16	3.77	10.65	21.2	5.9	27
ZZ59517		0.31	0.001	0.60	1.04	86.3	<0.2	<10	420	0.76	0.21	1.29	8.77	14.85	6.2	24
ZZ59518		0.17	<0.001	0.61	1.00	35.9	<0.2	<10	790	0.83	0.17	3.73	1.92	11.45	6.0	22
ZZ59519		0.23	0.003	1.77	0.84	27.8	<0.2	<10	350	0.98	0.17	4.13	2.70	40.6	6.2	67
ZZ59520		0.24	0.003	0.52	1.38	64.3	<0.2	<10	550	0.86	0.28	1.03	3.30	19.45	13.0	28
ZZ59521		0.32	0.006	1.06	1.54	44.0	<0.2	<10	490	0.78	0.30	0.91	6.20	17.75	11.2	28
ZZ59522		0.34	0.001	0.12	2.51	36.9	<0.2	<10	150	1.24	0.35	0.06	0.67	32.1	21.8	34
ZZ59523		0.19	0.003	1.90	0.58	34.6	<0.2	10	410	0.77	0.16	5.24	21.7	21.6	5.7	37
ZZ59524		0.33	<0.001	1.78	0.45	39.1	<0.2	10	250	1.27	0.18	5.78	21.2	22.4	7.2	29
ZZ59525		0.22	0.006	0.27	0.86	24.7	<0.2	10	320	0.96	0.18	2.65	4.59	17.20	7.8	17
ZZ59526		0.38	0.001	0.09	1.82	32.9	<0.2	<10	480	1.43	0.37	0.18	0.31	23.0	19.7	29
ZZ59527		0.26	0.001	0.21	1.85	63.4	<0.2	<10	390	1.31	0.33	0.76	0.43	22.1	12.8	28
ZZ59528		0.33	<0.001	0.15	1.41	49.7	<0.2	<10	340	1.27	0.30	0.88	0.58	19.00	12.8	24
ZZ59529		0.28	0.003	0.20	1.68	40.2	<0.2	<10	460	1.44	0.32	0.72	0.54	21.6	14.1	28
ZZ59530		0.35	0.001	0.29	2.25	102.0	<0.2	<10	540	1.80	0.32	0.31	0.64	41.9	19.6	32
ZZ66301		0.18	0.010	1.53	1.30	409	<0.2	<10	220	1.73	0.22	3.45	2.86	28.9	10.6	29
ZZ66302		0.17	0.007	0.60	1.38	560	<0.2	<10	530	1.37	0.23	1.65	1.11	18.15	10.3	25
ZZ66303		0.11	0.003	0.29	1.49	284	<0.2	<10	410	1.08	0.23	2.22	2.37	26.4	11.0	26
ZZ66304		0.12	0.003	0.34	1.51	411	<0.2	<10	440	1.34	0.21	2.29	0.91	17.05	9.7	25
ZZ66305		0.22	0.010	0.43	1.52	323	<0.2	<10	430	1.30	0.22	2.52	0.81	15.65	10.7	23



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**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD026996		2.42	32.7	2.13	3.32	0.06	0.05	0.66	0.024	0.09	14.2	8.2	0.21	905	1.95	0.01
DD026997		3.02	43.2	3.00	4.12	0.07	0.07	0.67	0.030	0.11	13.4	11.4	0.29	453	2.78	0.02
DD026998		1.83	29.6	3.36	3.86	0.07	0.05	0.37	0.031	0.08	12.5	10.7	0.68	935	3.09	0.02
DD026999		2.38	29.1	3.39	3.79	0.07	0.06	0.54	0.032	0.10	13.6	11.1	1.11	556	3.39	0.02
DD027000		2.48	24.2	7.01	2.63	0.13	0.05	1.23	0.029	0.09	8.0	7.2	0.24	529	12.55	0.02
ZZ59501		1.68	45.4	2.15	2.38	0.06	0.06	1.73	0.027	0.08	6.6	5.6	0.31	360	2.12	0.02
ZZ59502		7.27	50.7	2.63	3.96	<0.05	<0.02	0.14	0.028	0.11	3.5	1.0	0.03	84	6.16	<0.01
ZZ59503		5.72	29.0	1.90	3.49	<0.05	<0.02	0.24	0.018	0.09	5.3	0.8	0.03	74	5.17	<0.01
ZZ59504		6.56	91.8	3.67	1.58	0.10	0.04	4.28	0.048	0.12	8.6	3.0	0.08	494	6.50	0.01
ZZ59505		4.43	56.2	2.14	1.73	0.06	0.06	0.56	0.038	0.12	5.5	3.1	0.12	261	4.12	0.01
ZZ59506		7.72	126.5	3.10	2.47	0.10	0.06	0.39	0.041	0.10	10.2	10.2	0.17	264	5.97	<0.01
ZZ59507		1.62	56.2	2.52	2.94	0.07	0.09	0.49	0.031	0.09	7.5	8.3	0.29	447	2.85	0.01
ZZ59508		1.93	62.3	2.81	3.19	0.07	0.08	0.50	0.033	0.10	10.7	9.5	0.33	693	3.27	0.01
ZZ59509		3.39	59.6	3.04	3.57	0.07	0.07	0.48	0.035	0.11	11.0	11.9	0.34	465	3.36	0.01
ZZ59510		0.94	25.5	0.81	1.35	0.05	0.05	1.56	0.011	0.04	7.1	2.4	0.19	230	3.85	0.01
ZZ59511		2.81	29.5	2.49	2.30	0.10	0.07	2.79	0.033	0.11	22.3	5.5	1.15	320	18.45	0.01
ZZ59512		1.12	27.3	2.43	2.75	0.08	0.08	0.67	0.033	0.09	25.0	7.5	0.17	503	6.05	0.01
ZZ59513		1.30	31.1	2.27	1.98	0.08	0.06	0.19	0.031	0.12	20.5	6.9	0.58	216	5.21	0.01
ZZ59514		0.87	26.2	2.53	2.33	0.08	0.07	0.20	0.031	0.12	22.8	8.5	0.33	298	4.07	0.01
ZZ59515		1.20	21.4	3.67	4.66	0.08	0.06	0.11	0.036	0.08	17.2	14.7	0.26	565	10.20	0.01
ZZ59516		0.94	42.2	1.98	2.28	0.10	0.06	0.31	0.025	0.07	19.5	5.4	0.24	210	16.05	0.01
ZZ59517		1.85	45.9	2.28	3.55	0.07	0.08	0.33	0.031	0.08	9.3	10.3	0.24	207	17.10	0.01
ZZ59518		1.12	43.2	1.99	3.05	0.07	0.07	0.26	0.024	0.06	12.1	10.7	0.24	282	14.90	0.02
ZZ59519		1.10	54.3	1.78	3.00	0.12	0.07	0.37	0.026	0.07	52.1	9.1	0.24	281	4.14	0.01
ZZ59520		1.82	59.3	3.36	4.63	0.11	0.08	0.20	0.035	0.09	10.2	19.6	0.44	326	10.85	0.01
ZZ59521		3.30	42.7	3.67	4.95	0.08	0.07	0.18	0.038	0.11	8.7	25.0	0.33	475	18.15	0.01
ZZ59522		1.77	61.5	5.25	6.22	0.09	0.11	0.20	0.045	0.10	13.1	42.7	0.66	729	1.59	0.01
ZZ59523		2.07	93.9	1.68	2.30	0.12	0.08	0.52	0.024	0.10	19.4	5.0	1.16	188	58.3	0.01
ZZ59524		2.22	113.5	1.97	2.56	0.16	0.08	0.46	0.032	0.12	14.3	3.8	2.31	129	85.6	0.01
ZZ59525		1.08	30.1	2.34	2.79	0.09	0.08	0.12	0.025	0.09	12.1	7.5	0.20	436	7.40	0.01
ZZ59526		1.49	49.4	4.77	6.28	0.13	0.07	0.09	0.036	0.10	9.4	33.9	0.56	900	1.09	<0.01
ZZ59527		1.36	36.5	5.42	5.92	0.13	0.07	0.38	0.042	0.10	10.0	27.1	0.59	1260	0.79	0.01
ZZ59528		1.71	36.7	4.44	4.54	0.11	0.08	0.28	0.033	0.13	7.6	23.0	0.45	796	0.89	<0.01
ZZ59529		1.36	40.3	4.35	5.86	0.12	0.09	0.22	0.036	0.12	10.4	24.6	0.50	994	0.93	<0.01
ZZ59530		1.93	42.7	5.82	6.28	0.17	0.09	0.22	0.043	0.11	14.3	29.1	0.59	2140	1.08	<0.01
ZZ66301		1.56	23.0	3.23	3.45	0.12	0.05	2.41	0.032	0.06	19.3	9.7	1.27	1040	3.78	0.01
ZZ66302		2.16	43.4	3.18	4.10	0.12	0.07	1.01	0.029	0.09	10.0	14.1	0.34	565	2.09	<0.01
ZZ66303		1.37	22.1	3.18	4.55	0.08	0.04	0.56	0.032	0.08	11.3	13.8	0.78	1060	1.79	0.01
ZZ66304		2.42	35.0	3.02	4.07	0.09	0.06	0.67	0.030	0.09	9.5	13.4	0.32	524	1.64	0.01
ZZ66305		1.81	33.0	3.02	4.20	0.09	0.07	0.86	0.028	0.09	8.7	13.9	0.38	678	1.94	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD026996		0.42	44.9	1580	28.5	11.1	0.001	0.21	1.46	1.2	1.7	0.4	36.9	0.01	0.06	0.2
DD026997		0.55	74.8	1560	43.0	10.3	<0.001	0.18	2.14	2.2	2.0	0.5	37.2	0.01	0.07	0.5
DD026998		0.48	49.7	1030	42.7	8.9	0.001	0.10	1.65	2.5	1.9	0.5	32.3	0.01	0.07	0.7
DD026999		0.60	62.3	1150	41.0	9.8	0.001	0.13	1.76	2.9	1.8	0.5	34.3	0.01	0.06	0.8
DD027000		0.42	237	1110	34.1	7.0	0.001	0.08	3.46	2.9	3.8	0.4	69.0	<0.01	0.05	1.1
ZZ59501		0.35	37.1	1380	35.8	7.3	0.001	0.18	2.93	1.7	3.6	0.3	35.5	<0.01	0.06	0.5
ZZ59502		0.20	41.4	670	46.9	13.2	<0.001	0.05	3.45	1.9	1.7	0.7	18.8	<0.01	0.08	0.8
ZZ59503		0.25	29.4	470	32.3	12.1	<0.001	0.03	3.60	1.6	1.4	0.7	14.4	<0.01	0.07	0.9
ZZ59504		0.16	57.5	1190	711	11.3	0.001	0.08	13.30	5.8	2.9	0.4	34.7	0.01	0.09	3.6
ZZ59505		0.17	39.1	730	33.6	11.4	0.002	0.05	2.73	3.8	3.3	0.4	24.6	<0.01	0.07	3.0
ZZ59506		0.24	63.8	1150	42.2	11.6	0.001	0.06	3.25	6.0	3.4	0.4	25.1	0.01	0.07	2.8
ZZ59507		0.33	36.4	1200	43.9	9.6	0.002	0.14	2.91	3.4	4.2	0.4	29.2	<0.01	0.06	1.3
ZZ59508		0.36	47.2	1110	48.0	10.5	0.001	0.11	2.42	4.0	3.3	0.5	29.1	<0.01	0.06	1.6
ZZ59509		0.39	44.4	940	36.6	11.7	0.001	0.07	2.14	4.5	2.3	0.5	28.6	<0.01	0.07	1.9
ZZ59510		0.21	43.0	1080	119.5	3.8	0.004	0.31	3.57	0.7	6.1	0.2	58.9	<0.01	0.03	0.2
ZZ59511		0.28	86.8	1200	192.5	9.3	0.001	0.11	7.29	3.3	8.1	0.4	55.0	0.01	0.06	1.1
ZZ59512		0.26	46.7	850	248	6.7	0.001	0.11	4.58	2.7	3.0	0.4	107.5	0.01	0.04	0.7
ZZ59513		0.21	52.4	800	17.2	9.3	0.001	0.08	2.43	3.4	3.6	0.3	46.3	0.01	0.04	1.1
ZZ59514		0.23	45.8	890	20.2	9.3	0.001	0.09	1.47	3.5	2.4	0.3	67.0	0.01	0.04	1.2
ZZ59515		0.48	54.7	780	28.6	10.4	0.001	0.05	1.84	4.1	2.2	0.5	24.6	<0.01	0.06	2.0
ZZ59516		0.21	85.7	1370	15.4	5.8	0.005	0.17	4.84	1.7	11.1	0.4	66.6	0.01	0.07	0.4
ZZ59517		0.33	112.0	1270	16.1	18.1	0.006	0.15	4.83	2.9	5.9	0.5	46.6	0.01	0.09	0.7
ZZ59518		0.36	102.5	1360	11.6	6.4	0.005	0.17	2.69	1.9	5.3	0.4	70.8	0.01	0.07	0.3
ZZ59519		0.26	96.3	2330	12.2	7.7	0.003	0.14	2.50	2.5	6.4	0.4	96.4	0.01	0.07	0.5
ZZ59520		0.34	61.6	1030	20.5	9.8	0.008	0.08	3.81	4.6	12.2	0.5	48.6	<0.01	0.08	2.0
ZZ59521		0.36	78.6	1200	22.0	12.3	0.008	0.12	6.67	4.0	5.6	0.6	40.7	<0.01	0.09	1.7
ZZ59522		0.24	40.4	350	35.5	12.0	<0.001	0.02	0.65	6.4	0.9	0.5	10.6	<0.01	0.08	5.2
ZZ59523		0.24	222	1520	13.3	8.4	0.010	0.14	19.40	2.4	13.6	0.5	117.5	0.01	0.11	0.5
ZZ59524		0.15	199.0	950	14.3	9.3	0.014	0.08	24.9	4.5	10.2	0.6	96.8	0.01	0.10	1.6
ZZ59525		0.31	39.0	2050	15.7	9.4	0.001	0.21	3.18	2.4	3.6	0.4	48.2	0.01	0.06	0.9
ZZ59526		0.32	35.3	480	29.7	11.3	<0.001	0.02	0.80	6.9	0.7	0.7	13.0	<0.01	0.04	4.6
ZZ59527		0.33	27.3	770	48.1	12.1	<0.001	0.05	0.95	6.2	1.2	0.6	23.7	<0.01	0.06	2.5
ZZ59528		0.33	26.7	720	41.2	16.4	<0.001	0.06	0.85	5.9	0.9	0.6	52.9	<0.01	0.06	2.2
ZZ59529		0.42	29.7	750	36.8	14.1	<0.001	0.05	0.80	6.9	1.1	0.6	26.5	0.01	0.06	2.4
ZZ59530		0.39	44.8	790	53.2	14.3	<0.001	0.02	1.19	8.5	1.1	0.6	18.2	<0.01	0.10	3.7
ZZ66301		0.32	45.2	880	111.5	7.7	0.001	0.07	4.12	6.6	1.8	0.5	32.0	0.01	0.06	1.4
ZZ66302		0.37	56.5	990	43.7	9.2	0.001	0.07	2.00	3.3	1.9	0.5	26.5	0.01	0.07	0.9
ZZ66303		0.54	32.1	900	30.6	9.2	<0.001	0.07	1.35	3.1	1.0	0.5	23.3	<0.01	0.07	0.9
ZZ66304		0.45	45.2	960	26.5	10.8	<0.001	0.09	1.49	2.8	1.3	0.5	19.6	<0.01	0.05	0.8
ZZ66305		0.42	43.3	1100	36.5	10.0	0.001	0.11	1.59	2.7	1.6	0.5	29.4	<0.01	0.07	0.6

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD026996		0.009	0.36	4.01	67	0.45	22.4	357	1.3
DD026997		0.011	0.52	4.95	75	0.67	23.4	455	1.8
DD026998		0.014	0.33	2.71	65	0.69	14.40	321	1.1
DD026999		0.016	0.43	2.00	70	0.58	16.50	503	1.2
DD027000		0.008	0.88	5.03	71	0.74	19.90	1020	1.1
ZZ59501		0.006	0.32	5.93	46	0.56	10.05	305	1.7
ZZ59502		<0.005	0.94	0.40	96	0.38	2.44	263	<0.5
ZZ59503		0.007	0.62	0.38	80	0.34	2.13	204	<0.5
ZZ59504		<0.005	1.42	1.79	52	0.46	21.9	1560	0.5
ZZ59505		<0.005	0.35	1.40	43	0.12	12.60	290	1.6
ZZ59506		0.006	0.75	3.97	55	0.17	27.2	378	0.8
ZZ59507		0.005	0.38	2.58	70	0.17	11.60	299	2.5
ZZ59508		0.006	0.39	1.92	71	0.18	17.35	384	2.1
ZZ59509		0.006	0.45	2.49	69	0.17	16.05	317	1.7
ZZ59510		0.006	1.14	5.81	82	0.18	11.85	873	1.4
ZZ59511		0.005	2.99	4.08	173	0.46	28.6	1460	1.5
ZZ59512		<0.005	0.95	3.62	90	0.12	29.4	460	1.6
ZZ59513		<0.005	0.92	1.66	57	0.08	24.6	351	1.5
ZZ59514		0.005	0.55	2.01	53	0.08	24.9	289	1.4
ZZ59515		0.008	0.47	2.09	108	0.15	16.15	496	1.3
ZZ59516		<0.005	0.66	5.28	246	0.16	31.8	617	1.5
ZZ59517		0.007	1.84	8.01	316	0.25	20.8	532	2.4
ZZ59518		0.006	0.56	5.07	218	0.16	33.2	206	2.1
ZZ59519		0.006	0.16	4.10	122	0.19	60.8	352	1.6
ZZ59520		0.005	0.34	4.02	220	0.13	18.70	408	2.1
ZZ59521		0.006	1.10	4.72	312	0.16	16.50	1330	1.9
ZZ59522		<0.005	0.25	0.85	51	0.07	7.99	141	3.8
ZZ59523		0.006	0.93	10.60	587	0.23	39.8	1800	2.7
ZZ59524		<0.005	1.06	8.60	759	0.28	40.6	1750	2.6
ZZ59525		0.005	0.24	2.95	96	0.11	19.05	328	2.7
ZZ59526		0.007	0.20	1.07	40	0.13	10.40	151	1.8
ZZ59527		0.006	0.43	1.58	39	0.11	11.70	333	1.6
ZZ59528		0.006	0.39	1.49	32	0.09	11.60	272	1.9
ZZ59529		0.008	0.30	2.74	38	0.11	14.15	214	2.0
ZZ59530		0.007	0.66	1.66	45	0.13	15.30	244	2.3
ZZ66301		0.008	0.44	2.20	74	0.52	29.3	392	1.1
ZZ66302		0.007	0.49	2.16	67	0.57	17.80	346	1.6
ZZ66303		0.015	0.30	1.81	65	0.33	12.05	247	0.9
ZZ66304		0.008	0.45	2.65	68	0.44	15.20	252	1.4
ZZ66305		0.006	0.41	3.05	65	0.33	15.35	237	1.6



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**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66306		0.23	0.026	0.70	1.30	526	<0.2	<10	430	1.39	0.21	2.35	1.22	13.25	9.3	26
ZZ66307		0.15	0.057	0.55	1.46	676	<0.2	<10	580	1.62	0.21	1.90	1.11	11.95	10.3	27
ZZ66308		0.19	0.008	0.16	1.94	228	<0.2	<10	400	0.99	0.27	0.86	0.23	29.9	12.7	33
ZZ66309		0.12	<0.001	0.04	1.61	18.6	<0.2	<10	520	0.40	0.29	0.96	0.65	19.15	8.8	26
ZZ66310		0.09	0.002	0.72	0.88	279	<0.2	10	350	1.04	0.14	4.58	2.10	12.80	6.9	16
ZZ66311		0.24	0.003	0.61	1.09	125.5	<0.2	<10	490	1.03	0.23	4.08	1.22	17.95	10.8	20
ZZ66312		0.19	0.003	0.88	0.92	476	<0.2	<10	420	0.98	0.19	2.68	1.40	11.95	6.4	15
ZZ66313		0.15	0.006	1.28	0.91	118.5	<0.2	<10	330	0.91	0.24	0.75	1.30	18.75	10.3	17
ZZ66314		0.15	<0.001	0.28	0.69	71.7	<0.2	<10	90	0.18	0.28	0.02	0.22	9.45	4.4	12
ZZ66315		0.20	<0.001	0.44	0.56	502	<0.2	<10	130	0.31	0.19	0.01	0.35	5.63	4.4	10
ZZ66316		0.19	<0.001	1.01	1.06	106.0	<0.2	<10	100	0.32	0.33	0.02	0.20	15.00	6.4	16
ZZ66317		0.17	0.006	3.50	0.79	512	<0.2	<10	160	0.94	0.26	0.04	0.80	9.60	9.9	14
ZZ66318		0.19	0.004	0.64	0.48	36.3	<0.2	<10	220	0.25	0.22	0.14	0.40	6.47	1.9	8
ZZ66319		0.12	0.002	0.80	0.81	91.3	<0.2	<10	330	0.80	0.22	1.12	3.20	13.65	10.3	13
ZZ66320		0.16	0.005	0.99	0.77	122.0	<0.2	10	280	0.88	0.22	1.10	1.47	12.85	8.7	14

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**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66306		2.33	45.4	3.18	3.62	0.11	0.08	0.83	0.030	0.12	10.0	13.4	0.74	422	2.68	0.01
ZZ66307		2.13	47.9	3.26	3.89	0.10	0.07	2.19	0.031	0.13	7.5	13.6	0.33	422	2.62	0.01
ZZ66308		2.18	23.5	3.50	5.55	0.10	0.05	0.24	0.029	0.08	11.6	18.8	0.59	536	1.50	0.01
ZZ66309		1.22	11.8	2.71	7.06	0.06	0.02	0.06	0.029	0.05	9.2	16.2	0.30	473	1.82	<0.01
ZZ66310		0.86	22.6	2.02	2.49	0.07	0.04	1.55	0.019	0.05	7.3	5.7	0.41	738	1.64	0.01
ZZ66311		1.83	36.5	3.01	3.40	0.10	0.06	0.76	0.029	0.11	9.2	12.8	1.95	552	3.60	0.01
ZZ66312		1.59	37.7	2.28	2.61	0.06	0.05	0.83	0.025	0.09	6.6	6.8	0.59	418	2.26	0.01
ZZ66313		7.96	62.9	2.72	2.77	0.10	0.05	0.57	0.036	0.14	8.5	8.6	0.31	358	3.48	0.01
ZZ66314		10.30	31.6	2.14	4.64	0.06	<0.02	0.08	0.023	0.09	4.9	1.8	0.05	88	3.91	<0.01
ZZ66315		6.55	30.8	2.06	2.41	0.05	<0.02	0.32	0.027	0.10	2.8	1.5	0.04	119	3.44	<0.01
ZZ66316		9.24	26.9	3.38	5.16	0.07	<0.02	0.12	0.026	0.08	7.4	5.3	0.12	275	4.05	<0.01
ZZ66317		14.55	66.1	4.49	2.21	0.11	0.03	0.63	0.056	0.11	4.5	4.7	0.09	281	7.07	<0.01
ZZ66318		10.10	19.8	1.29	1.84	0.05	0.02	0.34	0.020	0.11	3.1	2.0	0.09	25	2.72	<0.01
ZZ66319		4.53	45.9	2.47	2.69	0.10	0.06	0.47	0.032	0.11	6.3	7.8	0.33	761	3.45	0.01
ZZ66320		5.71	53.9	2.73	2.52	0.09	0.07	0.70	0.032	0.13	6.4	8.1	0.29	569	4.09	<0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66306		0.29	62.7	890	37.9	9.7	<0.001	0.08	1.87	4.1	2.5	0.5	35.4	<0.01	0.04	1.0
ZZ66307		0.29	84.1	1020	39.1	9.9	0.001	0.11	2.08	3.2	2.3	0.5	31.1	0.01	0.09	0.8
ZZ66308		0.69	38.9	790	17.9	10.1	<0.001	0.04	1.18	3.3	1.1	0.6	19.2	<0.01	0.05	1.5
ZZ66309		1.00	14.9	500	16.3	6.8	<0.001	0.03	0.54	2.9	0.4	0.8	30.0	<0.01	0.04	1.7
ZZ66310		0.33	26.8	1330	49.2	5.1	<0.001	0.18	1.82	1.4	1.4	0.3	31.7	0.01	0.04	0.2
ZZ66311		0.34	38.4	920	31.4	8.3	0.002	0.04	2.23	4.4	1.8	0.5	39.7	<0.01	0.06	1.9
ZZ66312		0.26	29.1	920	37.6	7.6	0.001	0.11	2.20	2.1	2.3	0.4	31.1	<0.01	0.08	0.7
ZZ66313		0.36	40.2	890	26.7	14.2	0.002	0.04	2.67	4.9	3.1	0.5	26.6	<0.01	0.13	2.6
ZZ66314		0.36	21.3	600	16.0	14.5	<0.001	0.02	2.09	1.3	0.8	0.6	7.6	<0.01	0.06	0.4
ZZ66315		0.11	21.5	740	30.3	10.5	0.001	0.03	2.27	0.4	1.0	0.4	7.4	<0.01	0.08	<0.2
ZZ66316		0.63	24.1	460	29.7	17.1	<0.001	0.01	2.41	2.2	1.0	0.7	7.8	<0.01	0.11	1.9
ZZ66317		0.20	49.9	1180	54.2	16.8	<0.001	0.05	4.40	3.8	2.5	0.5	21.7	<0.01	0.11	4.6
ZZ66318		0.19	10.1	550	12.6	15.0	0.002	0.08	1.00	1.6	3.0	0.4	10.8	<0.01	0.04	1.5
ZZ66319		0.23	37.1	770	37.0	12.7	0.002	0.12	1.96	4.0	3.3	0.4	34.5	<0.01	0.08	2.1
ZZ66320		0.21	39.8	850	45.2	13.1	0.001	0.06	2.27	4.6	2.9	0.4	26.8	<0.01	0.07	2.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66306		<0.005	0.59	2.38	64	0.61	25.4	333	1.8
ZZ66307		<0.005	0.83	3.12	71	0.66	19.10	422	2.0
ZZ66308		0.023	0.32	1.77	65	0.44	8.61	125	1.1
ZZ66309		0.023	0.13	0.60	72	0.34	3.08	97	0.5
ZZ66310		0.009	0.23	2.45	43	0.26	14.70	276	1.1
ZZ66311		0.009	0.39	1.37	58	0.20	15.95	244	1.3
ZZ66312		0.005	0.35	2.56	56	0.27	11.95	254	1.2
ZZ66313		0.008	0.57	1.71	57	0.19	15.20	280	1.1
ZZ66314		0.007	0.37	0.37	78	0.17	1.74	164	<0.5
ZZ66315		<0.005	0.38	0.57	51	0.26	1.91	182	<0.5
ZZ66316		0.012	0.51	0.48	86	0.20	2.47	163	<0.5
ZZ66317		<0.005	1.05	1.15	69	0.25	5.81	323	1.3
ZZ66318		<0.005	0.49	0.83	37	0.05	4.29	47	<0.5
ZZ66319		<0.005	0.49	1.68	64	0.12	12.90	279	1.8
ZZ66320		<0.005	0.55	1.51	65	0.18	13.20	294	2.4

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155843**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12155844**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 13  
 This report is for 156 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66322		0.21	0.004	0.35	0.97	170.0	<0.2	<10	430	0.72	0.20	2.04	3.08	15.95	8.1	16
ZZ66323		0.21	0.003	0.66	0.95	220	<0.2	<10	310	0.89	0.21	1.78	7.27	22.0	9.7	17
ZZ66324		0.17	0.005	0.76	0.72	308	<0.2	<10	240	0.87	0.17	3.64	9.16	21.0	8.6	14
ZZ66325		0.13	<0.001	0.58	0.88	177.5	<0.2	<10	290	0.81	0.20	2.54	5.50	24.1	8.9	17
ZZ66326		0.22	0.001	0.36	1.37	461	<0.2	<10	180	0.99	0.26	0.08	7.57	26.3	10.2	30
ZZ66327		0.22	0.001	0.16	1.17	265	<0.2	<10	120	0.62	0.27	0.20	2.18	19.60	12.3	25
ZZ66328		0.17	0.007	1.11	3.35	3740	<0.2	10	450	4.00	0.18	1.89	84.5	28.6	9.4	45
ZZ66329		0.19	0.010	0.41	1.08	60.0	<0.2	<10	460	0.72	0.19	2.16	5.05	13.00	8.4	19
ZZ66330		0.19	0.002	0.23	1.11	32.3	<0.2	<10	400	0.54	0.28	1.07	2.11	10.30	12.9	22
ZZ66331		0.13	0.003	0.46	1.12	17.3	<0.2	<10	340	0.59	0.19	2.67	2.03	11.75	8.5	18
ZZ66332		0.26	0.003	1.60	0.81	27.0	<0.2	10	420	0.90	0.19	4.28	4.91	30.3	7.6	57
ZZ66333		0.25	0.002	0.27	2.19	33.7	<0.2	<10	320	1.20	0.29	0.59	1.22	29.5	16.9	31
ZZ66334		0.37	0.003	0.11	1.57	38.7	<0.2	<10	160	1.17	0.34	0.20	0.81	35.6	21.7	26
ZZ66335		0.38	0.001	0.16	1.65	32.5	<0.2	<10	180	1.17	0.32	0.24	0.66	31.1	16.7	25
ZZ66336		0.35	0.002	0.14	1.71	26.9	<0.2	<10	280	0.80	0.30	0.24	0.38	29.3	11.1	27
ZZ66337		0.19	0.002	0.22	1.23	19.6	<0.2	<10	220	0.95	0.23	1.10	0.61	24.3	11.2	19
ZZ66338		0.24	0.003	0.36	0.92	32.0	<0.2	<10	240	1.10	0.25	1.97	1.85	21.3	11.6	19
ZZ66339		0.16	0.005	0.35	0.88	28.8	<0.2	10	220	1.01	0.24	2.13	2.07	21.2	11.8	18
ZZ66340		0.26	0.001	0.10	1.19	17.3	<0.2	<10	340	1.09	0.31	0.69	0.58	18.65	8.9	19
ZZ66341		0.25	0.002	0.09	1.17	14.0	<0.2	<10	300	1.21	0.35	0.71	0.28	20.2	11.6	19
ZZ66342		0.24	0.004	0.44	1.46	118.0	<0.2	<10	180	0.82	0.22	1.69	1.58	28.1	9.0	27
ZZ66343		0.18	0.014	0.36	1.84	171.0	<0.2	<10	260	0.96	0.24	0.90	1.22	30.5	9.3	30
ZZ66344		0.15	0.004	0.47	1.74	368	<0.2	<10	220	1.28	0.25	1.28	3.82	28.8	10.9	29
ZZ66345		0.18	0.009	0.65	1.22	305	<0.2	<10	220	1.02	0.19	2.38	6.97	26.9	9.6	23
ZZ66346		0.15	0.008	1.05	0.81	151.0	<0.2	<10	490	0.64	0.16	1.04	2.78	16.25	6.1	21
ZZ66347		0.31	0.008	1.35	0.98	206	<0.2	<10	800	0.76	0.18	1.20	1.87	14.70	5.9	28
ZZ66348		0.25	0.003	3.37	0.77	55.1	<0.2	<10	2110	0.74	0.17	0.68	4.84	10.20	4.7	45
ZZ66349		0.27	0.007	4.47	0.90	70.7	<0.2	<10	1830	0.81	0.20	1.04	6.77	11.35	4.4	53
ZZ66350		0.17	0.005	0.51	1.37	196.5	<0.2	<10	170	1.11	0.20	3.39	2.15	29.2	8.5	26
ZZ66351		0.25	0.002	0.33	0.89	206	<0.2	<10	130	0.63	0.13	8.83	2.46	14.65	6.8	16
ZZ66352		0.23	0.005	0.46	1.51	176.0	<0.2	<10	230	0.87	0.24	1.35	1.08	32.1	10.3	30
ZZ66353		0.16	0.005	0.42	1.27	161.0	<0.2	<10	180	0.82	0.21	2.79	2.77	27.2	9.3	26
ZZ66354		0.16	0.008	0.35	1.17	2800	<0.2	<10	250	1.65	0.21	9.33	5.76	19.55	24.7	23
ZZ66355		0.16	0.007	0.51	1.42	730	<0.2	<10	260	1.35	0.22	3.46	6.58	21.9	12.5	26
ZZ66356		0.31	0.011	0.97	0.83	636	<0.2	<10	310	0.96	0.16	4.35	4.28	14.75	6.1	19
ZZ66357		0.17	0.010	1.06	0.83	392	<0.2	10	320	0.87	0.17	1.95	2.74	12.20	3.9	17
ZZ66358		0.12	0.009	1.04	0.86	399	<0.2	10	360	0.87	0.18	1.61	2.19	13.25	4.6	17
ZZ66359		0.24	0.021	1.15	1.07	609	<0.2	<10	690	1.00	0.22	1.40	2.82	17.95	6.7	23
ZZ66360		0.22	0.008	0.93	1.14	317	<0.2	<10	790	0.97	0.18	1.77	3.91	19.35	7.6	24
ZZ66361		0.13	0.011	1.00	1.17	320	<0.2	<10	670	0.94	0.21	1.30	2.66	20.1	8.1	24



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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66322		1.15	34.9	2.30	2.77	<0.05	0.06	0.25	0.025	0.07	7.5	10.6	0.37	442	4.20	0.01
ZZ66323		1.32	44.6	2.52	2.77	0.05	0.05	0.22	0.027	0.09	12.0	11.8	0.32	334	6.08	<0.01
ZZ66324		1.41	43.2	2.26	2.12	<0.05	0.04	0.21	0.028	0.09	12.4	7.5	0.75	224	6.05	0.01
ZZ66325		0.91	31.6	2.66	2.56	0.05	0.05	0.15	0.027	0.08	14.1	10.8	0.47	222	6.79	0.01
ZZ66326		2.40	74.1	4.01	4.41	0.06	0.05	0.12	0.041	0.08	12.5	16.9	0.21	292	16.65	<0.01
ZZ66327		2.29	37.9	3.99	4.82	<0.05	0.02	0.05	0.034	0.08	8.3	15.8	0.27	500	9.57	<0.01
ZZ66328		4.05	314	5.02	4.51	0.11	0.11	1.27	0.045	0.09	19.2	12.9	0.20	193	32.5	0.01
ZZ66329		0.82	35.5	2.22	3.09	<0.05	0.05	0.18	0.024	0.07	6.9	13.0	0.34	622	6.16	0.01
ZZ66330		1.74	36.3	3.09	4.32	<0.05	0.06	0.11	0.024	0.09	4.6	17.5	0.32	444	9.17	0.01
ZZ66331		0.75	30.0	2.05	3.55	<0.05	0.07	0.19	0.024	0.06	6.3	11.0	0.28	479	4.22	0.01
ZZ66332		0.65	62.5	1.99	2.71	0.08	0.04	0.32	0.022	0.08	30.0	11.0	0.90	341	6.67	0.01
ZZ66333		1.74	44.8	5.95	5.24	0.05	0.06	0.10	0.038	0.09	11.7	32.7	0.41	1100	3.87	0.01
ZZ66334		1.38	67.4	4.68	4.75	0.07	0.07	0.15	0.040	0.10	14.6	30.0	0.54	898	3.94	<0.01
ZZ66335		1.76	53.1	4.29	5.34	0.05	0.04	0.08	0.034	0.11	11.3	26.6	0.42	884	2.08	<0.01
ZZ66336		1.86	24.5	3.45	5.55	<0.05	0.04	0.05	0.032	0.08	11.8	18.2	0.42	450	2.10	<0.01
ZZ66337		1.30	26.9	3.19	4.13	<0.05	0.05	0.06	0.030	0.11	9.2	17.1	0.34	604	1.80	0.01
ZZ66338		1.63	41.7	3.07	3.04	0.05	0.08	0.15	0.030	0.13	11.2	13.8	0.65	476	7.15	0.01
ZZ66339		1.49	40.1	2.91	2.97	0.06	0.06	0.16	0.028	0.12	10.5	13.8	0.66	466	6.08	0.01
ZZ66340		0.83	24.6	3.27	4.02	<0.05	0.06	0.13	0.035	0.11	8.5	17.3	0.32	475	0.67	0.01
ZZ66341		0.99	26.6	3.35	4.14	<0.05	0.07	0.12	0.033	0.11	8.0	17.4	0.34	676	0.64	0.01
ZZ66342		1.25	18.7	2.62	4.14	<0.05	0.02	0.41	0.025	0.05	18.0	9.8	0.34	588	2.23	0.01
ZZ66343		2.20	17.5	2.92	5.48	0.05	0.04	0.44	0.029	0.05	13.9	12.8	0.40	405	2.27	0.01
ZZ66344		1.52	22.6	3.40	5.12	<0.05	0.05	0.38	0.034	0.08	14.5	10.6	0.34	804	5.99	0.01
ZZ66345		1.16	21.9	2.92	3.36	0.06	0.04	1.04	0.027	0.09	14.0	9.7	0.33	487	3.73	0.01
ZZ66346		1.99	28.7	2.27	2.43	0.05	0.04	0.47	0.025	0.07	9.4	6.5	0.21	191	4.66	0.01
ZZ66347		1.63	45.9	3.44	3.27	0.05	0.06	0.71	0.037	0.09	9.4	7.1	0.18	154	8.56	0.02
ZZ66348		1.35	43.4	2.53	2.40	<0.05	0.06	0.25	0.031	0.08	7.1	4.1	0.08	99	13.25	0.04
ZZ66349		1.43	57.0	2.87	2.74	0.05	0.05	0.36	0.032	0.10	7.5	5.3	0.11	111	16.40	0.04
ZZ66350		1.24	16.9	2.63	3.52	0.05	0.03	0.34	0.024	0.05	13.7	9.4	0.91	595	2.56	0.01
ZZ66351		0.85	13.1	1.71	2.26	<0.05	<0.02	0.26	0.014	0.04	7.9	6.0	4.87	502	1.69	0.01
ZZ66352		1.66	19.8	2.94	4.13	<0.05	0.04	0.29	0.026	0.06	16.7	12.2	0.52	502	2.58	0.01
ZZ66353		1.06	20.6	2.60	3.36	<0.05	0.03	0.38	0.027	0.07	14.4	10.9	0.76	580	2.73	0.01
ZZ66354		3.65	37.4	4.80	3.87	0.06	0.03	1.02	0.029	0.12	11.0	11.7	0.40	464	7.40	0.01
ZZ66355		1.71	23.0	3.13	3.94	<0.05	0.03	0.64	0.023	0.07	13.2	10.6	0.31	582	3.60	0.01
ZZ66356		1.27	31.9	2.07	2.96	<0.05	0.05	1.43	0.025	0.09	8.7	6.0	0.94	347	4.94	0.01
ZZ66357		1.27	30.2	1.62	2.92	0.05	0.06	1.26	0.023	0.08	7.3	4.9	0.16	165	2.86	0.01
ZZ66358		1.41	34.1	1.69	2.96	<0.05	0.07	1.16	0.028	0.08	7.3	5.2	0.15	183	2.22	0.01
ZZ66359		1.38	36.5	2.51	3.47	<0.05	0.07	1.70	0.026	0.08	10.4	8.5	0.24	352	2.89	0.01
ZZ66360		1.35	33.7	2.34	3.26	<0.05	0.07	1.18	0.030	0.07	10.2	9.4	0.25	493	1.83	0.02
ZZ66361		2.08	30.1	2.55	3.51	<0.05	0.06	1.20	0.029	0.07	10.5	10.0	0.24	414	2.07	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66322		0.35	38.3	810	17.6	8.2	0.003	0.10	2.48	2.1	2.8	0.4	39.7	<0.01	0.05	0.6
ZZ66323		0.34	59.2	750	15.7	8.2	0.004	0.07	3.10	3.3	2.6	0.4	41.0	<0.01	0.06	1.1
ZZ66324		0.27	55.7	790	13.6	7.8	0.001	0.09	3.62	2.6	3.3	0.3	69.7	<0.01	0.04	0.7
ZZ66325		0.32	50.1	610	16.3	7.0	0.001	0.08	2.89	3.6	2.1	0.3	47.4	<0.01	0.07	1.2
ZZ66326		0.34	73.9	1060	19.5	10.7	0.001	0.06	5.47	4.5	4.9	0.5	75.8	<0.01	0.14	3.1
ZZ66327		0.49	42.5	880	19.8	11.8	0.001	0.04	3.69	3.1	2.0	0.5	46.0	<0.01	0.08	2.1
ZZ66328		0.29	339	3080	13.1	8.7	0.002	0.08	9.32	5.6	10.9	0.4	271	<0.01	0.08	2.5
ZZ66329		0.40	42.1	960	12.6	8.2	0.004	0.12	2.88	2.1	4.6	0.4	47.5	<0.01	0.05	0.6
ZZ66330		0.50	37.3	630	20.1	11.2	0.002	0.07	5.72	3.3	3.4	0.6	41.4	<0.01	0.09	1.5
ZZ66331		0.47	25.7	1260	12.6	6.7	0.005	0.13	2.98	2.5	3.1	0.4	72.6	<0.01	0.05	0.5
ZZ66332		0.31	142.5	1840	14.8	7.0	0.004	0.08	3.69	3.4	3.8	0.5	103.0	<0.01	0.11	1.3
ZZ66333		0.51	47.6	740	27.1	11.6	<0.001	0.04	0.85	5.9	1.3	0.5	20.2	<0.01	0.05	3.2
ZZ66334		0.33	47.6	750	33.5	8.7	<0.001	0.02	1.18	6.7	1.0	0.4	20.7	<0.01	0.11	5.3
ZZ66335		0.32	34.0	710	32.1	11.6	<0.001	0.02	0.69	5.3	0.7	0.5	15.6	<0.01	0.09	3.6
ZZ66336		0.75	27.1	680	23.9	13.1	<0.001	0.01	0.75	3.7	1.0	0.6	17.7	<0.01	0.05	2.9
ZZ66337		0.57	26.1	590	22.9	12.1	<0.001	0.04	0.80	4.1	0.9	0.5	42.5	<0.01	0.06	2.2
ZZ66338		0.43	51.0	1010	23.5	10.4	0.001	0.08	2.34	4.6	2.4	0.5	41.7	<0.01	0.04	2.5
ZZ66339		0.42	48.6	950	22.4	9.8	<0.001	0.09	2.07	4.4	2.4	0.5	53.9	<0.01	0.04	2.2
ZZ66340		0.47	20.0	650	27.2	15.7	<0.001	0.06	0.31	4.1	1.1	0.5	30.4	<0.01	0.03	2.1
ZZ66341		0.55	23.3	420	27.9	12.5	<0.001	0.04	0.30	4.4	0.8	0.6	21.9	<0.01	0.01	2.7
ZZ66342		0.71	34.7	990	27.4	8.0	<0.001	0.10	1.21	1.6	1.4	0.5	26.6	<0.01	0.08	0.4
ZZ66343		0.97	35.3	800	23.5	11.8	<0.001	0.04	0.91	3.3	0.9	0.6	23.4	<0.01	0.05	1.4
ZZ66344		0.67	66.6	880	77.4	12.8	<0.001	0.07	2.21	3.9	1.9	0.6	27.7	<0.01	0.05	0.9
ZZ66345		0.59	66.1	990	84.5	9.3	<0.001	0.08	2.21	2.9	1.7	0.4	31.6	<0.01	0.05	0.9
ZZ66346		0.45	63.6	950	24.0	7.3	<0.001	0.07	2.23	3.3	3.0	0.4	46.6	<0.01	0.10	1.1
ZZ66347		0.46	61.6	1180	27.5	9.0	0.001	0.12	4.14	4.1	4.0	0.5	56.8	<0.01	0.18	1.5
ZZ66348		0.30	54.0	1770	13.7	10.3	0.004	0.13	3.06	3.1	7.4	0.5	106.0	<0.01	0.11	0.7
ZZ66349		0.33	70.4	1840	16.9	10.0	0.003	0.17	4.18	3.0	7.0	0.5	135.0	<0.01	0.15	0.8
ZZ66350		0.71	40.8	960	39.5	8.2	<0.001	0.07	1.52	2.8	2.5	0.4	37.6	<0.01	0.05	0.9
ZZ66351		0.42	34.8	1100	28.0	5.9	<0.001	0.10	1.14	0.9	1.3	0.3	49.0	<0.01	0.05	0.3
ZZ66352		0.89	45.1	840	31.5	9.8	<0.001	0.06	1.36	2.9	1.2	0.5	29.4	<0.01	0.09	1.5
ZZ66353		0.73	36.2	920	31.9	8.8	<0.001	0.09	1.39	1.8	1.7	0.4	29.0	<0.01	0.05	0.5
ZZ66354		0.47	331	1040	52.3	9.4	<0.001	0.04	4.71	4.2	4.8	0.5	60.0	<0.01	0.05	2.0
ZZ66355		0.66	102.0	1620	37.9	8.6	<0.001	0.12	1.97	2.5	2.9	0.5	34.8	<0.01	0.09	0.5
ZZ66356		0.29	44.8	1590	57.7	7.1	<0.001	0.09	2.87	2.4	3.5	0.4	51.7	<0.01	0.08	0.8
ZZ66357		0.29	30.5	1730	36.4	8.9	<0.001	0.11	1.98	1.8	2.7	0.4	36.1	<0.01	0.07	0.7
ZZ66358		0.33	31.8	1360	38.3	10.4	<0.001	0.10	1.96	2.3	2.4	0.5	30.9	<0.01	0.08	1.0
ZZ66359		0.39	45.2	1190	82.6	9.7	<0.001	0.09	2.50	2.6	2.7	0.5	34.1	<0.01	0.05	1.1
ZZ66360		0.44	38.4	1390	80.6	9.3	<0.001	0.11	2.15	2.3	2.5	0.6	46.3	<0.01	0.05	0.7
ZZ66361		0.49	35.2	1160	83.6	11.5	0.001	0.09	1.94	3.0	2.7	0.5	44.3	<0.01	0.07	1.0



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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66322		0.005	0.37	2.93	81	0.10	12.95	327	1.2
ZZ66323		0.005	0.61	2.27	110	0.10	23.1	685	1.5
ZZ66324		<0.005	0.64	2.91	91	0.13	24.1	531	1.2
ZZ66325		0.005	0.38	1.53	96	0.14	21.3	506	1.3
ZZ66326		<0.005	0.92	2.77	266	0.23	23.8	647	1.4
ZZ66327		0.008	0.66	1.16	184	0.18	7.24	321	0.6
ZZ66328		0.005	0.65	34.5	641	0.42	108.0	2500	2.9
ZZ66329		0.006	0.33	4.98	107	0.13	12.85	329	1.3
ZZ66330		0.008	0.42	2.69	134	0.14	4.66	239	1.6
ZZ66331		0.007	0.29	2.99	109	0.09	8.94	137	1.6
ZZ66332		0.005	0.26	3.78	207	0.13	37.1	567	1.7
ZZ66333		0.006	0.37	2.31	150	0.08	11.45	159	1.7
ZZ66334		0.007	0.27	1.01	52	0.06	11.25	156	2.2
ZZ66335		0.005	0.28	0.79	47	0.05	8.15	134	1.0
ZZ66336		0.013	0.31	0.95	53	0.21	6.04	121	1.1
ZZ66337		0.010	0.20	0.93	34	0.08	8.67	122	1.8
ZZ66338		0.007	0.34	2.07	84	0.09	15.50	276	2.7
ZZ66339		0.007	0.31	1.76	71	0.09	13.95	251	2.7
ZZ66340		0.007	0.16	1.02	26	0.07	8.96	190	1.4
ZZ66341		0.007	0.19	1.24	25	0.06	7.90	112	1.6
ZZ66342		0.022	0.22	2.60	66	0.25	21.2	153	0.5
ZZ66343		0.024	0.45	1.82	70	0.35	9.57	151	1.1
ZZ66344		0.019	0.70	1.12	101	0.42	19.60	468	1.2
ZZ66345		0.017	0.61	0.84	83	0.38	19.60	506	1.1
ZZ66346		0.013	0.45	1.82	106	0.21	18.40	309	1.3
ZZ66347		0.010	0.73	2.42	141	0.25	20.7	253	1.5
ZZ66348		0.006	0.54	4.71	148	0.18	25.9	282	1.8
ZZ66349		0.007	0.74	5.72	186	0.19	23.0	361	1.6
ZZ66350		0.027	0.27	1.67	59	0.30	14.95	216	0.7
ZZ66351		0.013	0.22	1.18	36	0.26	9.46	265	0.5
ZZ66352		0.029	0.36	1.60	63	0.39	14.15	222	1.0
ZZ66353		0.022	0.30	1.52	60	0.32	16.40	238	0.7
ZZ66354		0.010	1.12	3.90	86	1.86	28.0	1220	1.0
ZZ66355		0.013	0.48	3.17	82	0.47	24.8	466	0.9
ZZ66356		0.006	0.74	5.02	97	0.36	18.10	347	1.3
ZZ66357		<0.005	0.50	6.91	78	0.36	14.75	222	1.5
ZZ66358		<0.005	0.57	4.33	77	0.29	13.70	225	1.7
ZZ66359		0.007	0.80	2.40	91	0.33	15.90	388	1.6
ZZ66360		0.007	0.64	4.87	95	0.24	16.55	367	1.5
ZZ66361		0.007	0.72	2.64	97	0.23	15.60	338	1.5



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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66362		0.19	0.007	1.11	1.06	295	<0.2	<10	550	1.02	0.20	3.60	8.00	24.3	8.0	28
ZZ66363		0.14	0.008	1.67	0.72	302	<0.2	10	1760	0.95	0.16	5.18	16.30	33.1	5.7	52
ZZ66364		0.19	0.013	1.42	0.72	328	<0.2	<10	860	0.77	0.12	3.62	14.65	19.45	6.3	25
ZZ66365		0.25	0.006	1.52	0.68	526	<0.2	10	360	1.14	0.17	4.83	14.75	26.7	8.2	31
ZZ66366		0.17	0.002	0.18	0.88	229	<0.2	<10	150	0.41	0.19	0.57	3.47	16.70	6.2	28
ZZ66367		0.23	0.002	0.29	1.21	263	<0.2	<10	200	0.69	0.22	0.19	1.97	29.9	8.1	28
ZZ66368		0.30	0.004	0.72	1.62	238	<0.2	<10	490	1.20	0.26	0.61	4.78	34.8	13.8	38
ZZ66369		0.29	0.002	0.21	2.00	56.0	<0.2	<10	530	1.28	0.26	0.64	0.59	29.3	13.9	25
ZZ66370		0.24	0.001	0.15	1.82	39.0	<0.2	<10	510	0.87	0.26	0.53	1.24	22.5	10.9	26
ZZ66371		0.20	0.001	0.05	1.04	54.5	<0.2	<10	170	0.27	0.29	0.30	0.49	22.1	7.4	17
ZZ66372		0.19	0.002	0.18	1.73	63.7	<0.2	<10	240	1.14	0.27	0.74	1.28	28.9	13.6	27
ZZ66373		0.14	0.002	0.65	1.04	57.7	<0.2	<10	330	0.77	0.20	3.53	8.52	21.6	8.1	36
ZZ66374		0.20	0.013	1.72	0.75	65.1	<0.2	<10	220	0.83	0.18	6.51	8.02	29.4	7.1	50
ZZ66375		0.18	0.011	0.08	1.16	12.4	<0.2	<10	170	1.05	0.30	0.82	0.23	22.0	13.2	19
ZZ66376		0.14	<0.001	0.22	0.68	13.0	<0.2	<10	90	0.57	0.30	0.08	0.18	9.33	10.7	11
ZZ66377		0.25	0.003	0.10	2.03	27.6	<0.2	<10	220	1.23	0.36	0.36	0.36	29.9	17.5	28
ZZ66378		0.41	0.001	0.05	1.35	7.7	<0.2	<10	170	0.52	0.41	0.02	0.19	11.05	11.5	26
ZZ66379		0.21	0.002	0.03	1.86	19.8	<0.2	<10	200	1.02	0.32	0.15	0.24	28.1	20.9	27
ZZ66380		0.28	0.002	0.05	1.42	9.8	<0.2	<10	240	0.49	0.32	0.20	0.11	23.0	6.3	19
ZZ66381		0.12	0.003	0.91	0.71	24.0	<0.2	<10	260	0.71	0.18	1.96	2.95	36.6	7.9	11
ZZ66382		0.28	0.002	0.12	1.80	27.7	<0.2	<10	200	1.06	0.29	0.10	0.92	31.8	8.9	24
ZZ66383		0.26	0.002	0.38	1.40	26.8	<0.2	<10	350	1.04	0.23	1.42	1.00	38.7	8.7	19
ZZ66384		0.17	0.003	0.64	1.37	99.0	<0.2	<10	290	1.19	0.23	1.62	4.21	38.3	10.8	21
ZZ66385		0.20	0.003	0.66	1.50	204	<0.2	<10	360	1.39	0.25	1.12	1.69	48.6	11.5	22
ZZ66386		0.31	0.001	0.07	1.65	272	<0.2	<10	210	0.61	0.27	0.12	0.84	22.6	5.8	28
ZZ66387		0.14	0.005	0.70	0.70	1410	<0.2	<10	280	0.71	0.23	0.05	6.84	22.0	7.5	18
ZZ66388		0.25	0.004	0.82	0.72	781	<0.2	<10	330	0.71	0.22	0.06	2.47	13.00	5.9	17
ZZ66389		0.29	0.012	1.62	0.86	893	<0.2	<10	420	1.22	0.22	0.97	9.80	27.4	9.7	19
ZZ66390		0.26	0.010	1.07	0.84	349	<0.2	<10	500	1.15	0.24	0.58	3.11	25.2	9.3	16
ZZ66391		0.25	0.022	1.64	1.29	128.0	<0.2	<10	940	0.87	0.25	0.24	4.39	20.2	9.5	35
ZZ66392		0.19	0.011	0.73	1.36	187.5	<0.2	<10	520	1.32	0.24	1.35	1.92	22.2	9.4	26
ZZ66393		0.16	0.001	0.91	0.59	28.1	<0.2	<10	930	0.43	0.23	0.29	0.47	10.10	5.2	28
ZZ66394		0.13	0.002	2.53	0.73	19.8	<0.2	<10	730	0.62	0.20	1.83	0.65	9.56	5.2	31
ZZ66395		0.14	NSS	3.01	0.50	16.2	<0.2	<10	870	0.55	0.17	1.67	0.91	8.05	4.1	28
ZZ66396		0.27	0.005	2.38	0.30	12.3	<0.2	<10	1430	0.33	0.15	0.34	0.85	4.23	1.4	20
ZZ66397		0.23	0.003	1.18	1.22	22.3	<0.2	<10	550	0.48	0.23	0.16	0.55	21.8	7.2	31
ZZ66398		0.19	0.018	1.40	0.53	20.3	<0.2	<10	1470	0.75	0.23	0.24	1.87	5.77	10.6	19
ZZ66399		0.15	0.005	2.60	0.54	35.2	<0.2	<10	1750	0.71	0.16	0.97	1.93	10.40	5.5	33
ZZ66400		0.28	0.005	3.19	0.55	35.6	<0.2	10	1820	0.75	0.19	1.04	1.85	8.28	5.5	34
ZZ66401		0.23	0.006	3.63	0.68	38.8	<0.2	10	1790	0.79	0.20	1.35	4.97	10.15	5.7	38





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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ66362		0.93	39.8	2.34	3.18	0.05	0.06	0.94	0.024	0.08	18.4	11.0	1.24	458	7.21	0.02
ZZ66363		1.97	61.6	1.69	3.11	0.10	0.05	1.09	0.018	0.08	38.1	7.2	0.63	214	18.45	0.05
ZZ66364		1.55	46.4	1.48	2.30	0.05	0.05	1.84	0.018	0.07	18.3	5.2	0.21	296	9.91	0.03
ZZ66365		2.76	48.9	2.33	2.69	0.08	0.04	2.01	0.032	0.12	22.8	6.4	1.93	225	30.2	0.01
ZZ66366		1.66	22.2	1.88	4.70	<0.05	<0.02	0.31	0.019	0.06	9.9	5.5	0.07	138	37.5	<0.01
ZZ66367		1.95	35.8	3.07	4.73	<0.05	0.02	0.10	0.032	0.06	12.2	10.6	0.14	327	36.9	<0.01
ZZ66368		1.98	42.1	3.57	4.99	0.14	0.09	0.35	0.039	0.10	20.5	15.7	0.38	476	10.05	0.01
ZZ66369		1.70	23.8	3.42	6.15	0.11	0.11	0.08	0.051	0.12	11.0	15.8	0.33	550	4.25	0.01
ZZ66370		1.64	20.9	3.48	6.34	0.10	0.08	0.05	0.042	0.11	9.0	18.1	0.40	444	7.35	0.01
ZZ66371		1.27	20.3	2.87	6.28	0.08	0.02	0.03	0.026	0.06	10.0	8.7	0.14	199	4.45	<0.01
ZZ66372		1.67	32.6	3.95	5.40	0.12	0.07	0.07	0.046	0.10	11.0	23.8	0.38	460	4.20	<0.01
ZZ66373		0.60	55.6	2.21	3.65	0.11	0.07	0.24	0.027	0.07	14.4	9.8	0.60	293	19.80	0.01
ZZ66374		1.03	66.7	1.85	3.22	0.14	0.07	0.42	0.027	0.10	23.7	8.1	1.44	180	24.5	0.01
ZZ66375		1.25	31.4	3.30	4.04	0.10	0.11	0.05	0.040	0.13	8.1	19.8	0.40	423	1.32	<0.01
ZZ66376		1.66	23.7	2.95	2.99	0.07	0.03	0.07	0.031	0.11	3.8	5.4	0.08	621	0.82	<0.01
ZZ66377		1.78	37.3	5.67	6.35	0.14	0.08	0.10	0.043	0.09	12.6	23.8	0.51	1500	0.95	0.01
ZZ66378		3.14	10.5	3.35	5.90	0.07	0.03	0.02	0.026	0.12	4.8	8.7	0.17	949	1.12	0.01
ZZ66379		1.38	57.8	4.65	5.69	0.11	0.05	0.03	0.042	0.08	9.8	36.0	0.60	859	0.81	0.01
ZZ66380		1.69	12.1	2.94	7.97	0.08	0.02	0.04	0.026	0.06	10.3	14.0	0.19	358	1.28	<0.01
ZZ66381		0.22	16.3	2.21	2.10	0.10	0.06	0.16	0.030	0.10	22.3	3.9	0.09	238	4.94	0.01
ZZ66382		3.85	20.6	3.32	5.89	0.10	0.05	0.04	0.043	0.10	14.7	16.1	0.26	304	8.74	<0.01
ZZ66383		1.36	15.4	2.76	4.66	0.10	0.06	0.10	0.036	0.06	19.4	7.1	0.20	622	2.81	<0.01
ZZ66384		1.61	22.6	3.05	4.21	0.12	0.10	0.12	0.037	0.09	24.4	8.9	0.37	534	5.86	0.01
ZZ66385		1.29	20.5	3.39	4.46	0.14	0.08	0.17	0.041	0.07	26.7	10.4	0.33	788	3.14	<0.01
ZZ66386		2.00	11.2	2.63	5.93	0.08	0.02	0.04	0.029	0.07	10.6	14.3	0.36	232	2.06	<0.01
ZZ66387		3.56	26.6	2.64	3.44	0.10	0.03	0.31	0.027	0.08	11.3	2.5	0.04	159	11.00	<0.01
ZZ66388		6.21	48.6	2.64	2.67	0.10	0.04	0.25	0.033	0.11	6.5	1.9	0.04	117	12.35	0.01
ZZ66389		4.35	48.2	3.35	2.49	0.15	0.11	0.81	0.049	0.10	18.9	6.0	0.12	272	7.56	0.01
ZZ66390		11.65	49.1	2.81	2.77	0.13	0.10	0.43	0.045	0.10	12.1	7.0	0.16	311	4.86	<0.01
ZZ66391		3.57	50.5	3.25	4.67	0.11	0.07	0.43	0.042	0.09	9.5	14.6	0.35	331	7.89	<0.01
ZZ66392		2.67	38.6	2.57	4.51	0.10	0.09	0.52	0.036	0.08	11.9	11.1	0.28	380	2.43	<0.01
ZZ66393		1.80	27.4	2.52	2.73	0.09	0.03	0.07	0.031	0.10	5.2	2.3	0.06	165	5.79	0.01
ZZ66394		1.02	37.3	2.00	2.12	0.09	0.08	0.16	0.034	0.06	6.1	3.4	0.08	370	3.47	<0.01
ZZ66395		1.19	43.1	1.95	1.67	0.08	0.08	0.20	0.030	0.09	5.6	2.5	0.07	122	4.27	0.01
ZZ66396		1.12	40.2	1.11	1.16	0.08	0.05	0.11	0.025	0.10	3.5	1.1	0.01	24	3.02	0.01
ZZ66397		1.85	29.2	2.71	4.48	0.09	0.04	0.09	0.030	0.07	10.7	10.4	0.28	218	4.12	0.01
ZZ66398		6.87	79.5	3.62	1.57	0.11	0.07	0.20	0.051	0.12	3.2	2.1	0.04	157	7.85	0.01
ZZ66399		1.31	32.4	2.39	1.99	0.10	0.09	0.16	0.030	0.07	6.5	3.1	0.07	195	7.25	0.01
ZZ66400		2.75	41.9	2.60	1.94	0.12	0.10	0.23	0.036	0.08	7.0	3.2	0.06	122	7.53	0.01
ZZ66401		1.60	43.6	2.51	2.39	0.12	0.11	0.25	0.035	0.08	7.1	5.2	0.12	116	7.87	0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ66362	0.42	72.5	1100	80.2	7.7	0.001	0.09	3.44	2.9	4.3	0.4	45.7	<0.01	0.06	1.0	
ZZ66363	0.34	126.0	1450	69.2	8.7	0.001	0.14	9.31	2.2	11.8	0.5	89.8	<0.01	0.12	0.5	
ZZ66364	0.34	125.0	1160	132.5	6.9	<0.001	0.16	5.87	1.2	6.4	0.4	52.2	<0.01	0.06	0.3	
ZZ66365	0.27	140.5	1060	52.2	9.2	0.001	0.06	10.70	3.4	11.0	0.5	88.1	<0.01	0.08	1.0	
ZZ66366	0.54	103.0	610	18.3	8.2	<0.001	0.04	4.48	1.6	3.8	0.7	21.8	<0.01	0.13	0.4	
ZZ66367	0.58	102.5	570	39.6	12.3	<0.001	0.04	2.83	2.4	3.8	0.6	20.5	<0.01	0.12	1.3	
ZZ66368	0.53	102.0	1170	30.3	13.2	0.001	0.04	2.78	5.3	3.8	0.6	37.9	0.01	0.08	2.6	
ZZ66369	0.55	33.3	1040	19.8	14.8	<0.001	0.06	0.95	4.6	1.5	0.7	22.8	0.01	0.05	2.2	
ZZ66370	0.46	31.7	1160	17.2	14.4	<0.001	0.06	1.16	3.4	1.5	0.7	23.8	<0.01	0.06	1.6	
ZZ66371	0.59	20.3	370	13.6	12.9	<0.001	0.02	0.80	2.4	0.6	0.7	14.0	<0.01	0.07	1.4	
ZZ66372	0.39	41.2	1080	19.5	13.0	<0.001	0.04	1.04	5.4	1.0	0.6	28.9	0.01	0.08	3.0	
ZZ66373	0.36	91.7	1360	14.6	5.7	0.001	0.14	6.74	2.1	8.3	0.5	49.5	0.01	0.10	0.5	
ZZ66374	0.29	138.0	1700	12.2	8.3	0.002	0.08	7.44	3.6	12.1	0.5	153.0	0.01	0.11	1.4	
ZZ66375	0.34	28.7	510	17.9	10.4	<0.001	0.06	0.37	5.5	0.5	0.6	29.4	0.01	0.05	3.4	
ZZ66376	0.22	17.1	600	26.1	11.7	<0.001	0.06	0.39	1.9	0.2	0.4	7.6	<0.01	0.05	1.5	
ZZ66377	0.44	28.6	630	28.8	15.1	<0.001	0.03	0.37	6.5	0.7	0.6	15.1	0.01	0.08	3.6	
ZZ66378	0.88	11.2	530	20.5	26.2	<0.001	0.03	0.39	2.9	<0.2	1.1	5.7	<0.01	0.04	1.7	
ZZ66379	0.26	32.9	470	25.2	10.1	<0.001	0.01	0.38	5.2	0.4	0.5	15.8	<0.01	0.07	4.5	
ZZ66380	0.99	10.2	450	16.0	16.1	<0.001	0.02	0.35	2.5	<0.2	0.9	14.5	<0.01	0.05	1.4	
ZZ66381	0.26	35.0	1020	12.3	6.7	<0.001	0.11	2.34	2.6	2.1	0.3	94.3	0.01	0.04	0.8	
ZZ66382	0.74	33.9	820	18.4	18.3	<0.001	0.03	3.93	2.7	2.4	0.7	9.5	<0.01	0.06	1.6	
ZZ66383	0.48	22.2	1610	14.7	11.7	<0.001	0.10	1.16	2.5	1.3	0.5	116.0	0.01	0.05	0.8	
ZZ66384	0.44	46.9	1340	18.7	12.2	0.001	0.11	4.24	2.9	2.8	0.5	36.2	0.01	0.05	1.0	
ZZ66385	0.48	34.7	940	42.9	11.2	<0.001	0.06	1.76	3.5	1.5	0.5	32.7	0.01	0.05	1.2	
ZZ66386	0.42	24.1	1080	21.5	15.9	<0.001	0.05	0.70	1.1	0.5	0.7	17.5	<0.01	0.03	0.3	
ZZ66387	0.54	101.0	860	114.0	12.8	0.001	0.05	3.64	2.0	3.3	0.7	59.7	0.01	0.09	1.2	
ZZ66388	0.20	81.9	1110	63.2	13.5	<0.001	0.14	4.52	1.3	4.9	0.5	88.7	0.01	0.10	0.4	
ZZ66389	0.23	102.5	1300	51.5	11.4	0.001	0.07	3.99	5.5	4.8	0.4	72.1	0.01	0.08	2.2	
ZZ66390	0.22	59.8	1000	31.4	14.2	0.001	0.04	2.29	5.2	3.0	0.5	42.4	0.01	0.08	3.1	
ZZ66391	0.34	51.0	1360	23.4	14.3	0.002	0.07	2.47	4.3	3.8	0.5	47.1	0.01	0.09	1.2	
ZZ66392	0.56	42.3	1330	25.8	11.5	0.001	0.09	1.81	3.8	2.5	0.5	38.1	0.01	0.07	0.9	
ZZ66393	0.16	40.3	2470	10.8	10.9	0.001	0.12	1.69	1.7	4.5	0.5	58.7	0.01	0.14	0.2	
ZZ66394	0.25	60.4	2220	10.0	7.3	0.001	0.19	1.21	2.2	5.3	0.4	151.0	0.01	0.10	0.6	
ZZ66395	0.20	49.9	1460	8.6	8.9	0.002	0.21	1.33	3.8	5.4	0.3	104.5	0.01	0.14	0.8	
ZZ66396	0.05	27.1	1010	7.8	8.4	0.001	0.17	0.88	3.4	6.8	0.4	177.0	0.01	0.26	1.9	
ZZ66397	0.46	37.5	1480	10.3	10.9	0.001	0.10	1.25	1.6	3.6	0.5	57.9	0.01	0.10	0.3	
ZZ66398	0.11	120.0	970	14.7	11.9	0.003	0.13	1.40	7.6	5.2	0.4	110.0	0.01	0.14	0.9	
ZZ66399	0.20	64.4	1330	10.5	6.7	0.001	0.10	1.80	3.9	7.2	0.4	211	0.01	0.09	0.7	
ZZ66400	0.14	69.9	1560	11.8	7.7	0.002	0.09	1.85	6.1	8.7	0.4	245	0.02	0.10	0.9	
ZZ66401	0.23	79.6	1470	12.0	6.5	0.002	0.11	2.00	4.9	9.3	0.5	195.0	0.01	0.10	0.8	

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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66362		0.007	1.01	3.27	266	0.18	26.3	605	1.6
ZZ66363		0.007	3.70	5.58	448	0.29	54.0	1120	1.2
ZZ66364		0.006	3.75	6.27	214	0.35	25.1	1090	1.6
ZZ66365		0.005	3.43	4.69	402	0.39	36.5	1340	1.2
ZZ66366		0.013	1.58	2.44	548	0.50	13.20	565	<0.5
ZZ66367		0.011	0.85	2.71	346	0.35	11.75	456	0.7
ZZ66368		0.012	0.73	2.64	226	0.26	26.5	504	1.7
ZZ66369		0.006	0.32	2.33	79	0.10	11.20	174	2.3
ZZ66370		0.006	0.34	2.07	97	0.10	6.46	167	1.9
ZZ66371		0.013	0.21	0.51	90	0.17	3.17	102	<0.5
ZZ66372		0.005	0.27	1.52	67	0.09	10.40	181	1.8
ZZ66373		0.007	0.31	5.45	348	0.18	21.2	566	1.7
ZZ66374		0.008	0.43	4.90	319	0.27	35.3	764	1.6
ZZ66375		0.005	0.10	0.70	23	0.06	8.89	85	3.4
ZZ66376		<0.005	0.12	0.60	20	<0.05	3.27	66	0.7
ZZ66377		0.008	0.20	0.96	43	0.10	12.40	87	1.7
ZZ66378		0.017	0.16	1.19	40	0.42	3.41	51	0.5
ZZ66379		0.005	0.12	1.28	39	0.05	5.72	108	1.5
ZZ66380		0.020	0.16	0.57	53	0.20	3.94	62	<0.5
ZZ66381		0.006	0.33	1.76	57	0.09	20.1	210	1.1
ZZ66382		0.013	0.49	2.23	147	0.21	6.80	288	1.2
ZZ66383		0.009	0.38	1.74	84	0.11	15.90	118	0.9
ZZ66384		0.009	0.56	4.70	115	0.13	25.5	345	1.8
ZZ66385		0.010	0.46	2.21	60	0.31	27.4	250	1.3
ZZ66386		0.017	0.64	1.01	73	0.23	5.09	164	<0.5
ZZ66387		0.011	2.47	2.01	230	0.29	15.45	579	<0.5
ZZ66388		<0.005	1.87	2.52	198	0.22	13.35	466	<0.5
ZZ66389		<0.005	1.46	2.57	146	0.20	35.0	792	1.8
ZZ66390		<0.005	0.91	2.14	79	0.14	22.9	355	1.9
ZZ66391		0.007	0.78	2.18	89	0.25	14.80	297	1.2
ZZ66392		0.012	0.39	3.38	73	0.33	23.1	255	1.5
ZZ66393		0.007	0.18	3.11	63	0.10	11.85	156	<0.5
ZZ66394		0.007	0.19	2.36	51	0.08	21.5	187	1.5
ZZ66395		0.005	0.19	3.85	44	0.09	23.1	146	2.0
ZZ66396		<0.005	0.12	3.20	45	<0.05	16.15	75	1.2
ZZ66397		0.019	0.28	2.32	72	0.21	12.80	131	<0.5
ZZ66398		<0.005	0.25	3.86	46	0.14	32.9	407	0.5
ZZ66399		0.005	0.22	2.65	75	0.21	29.6	224	1.7
ZZ66400		<0.005	0.27	3.00	70	0.15	43.4	231	1.7
ZZ66401		0.006	0.25	4.25	92	0.17	36.7	254	2.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66402		0.23	0.008	5.28	0.79	53.5	<0.2	10	2120	0.85	0.22	0.91	7.50	14.60	5.8	62
ZZ66403		0.24	0.005	2.44	0.51	44.8	<0.2	<10	1310	0.44	0.23	0.19	5.28	10.90	2.1	43
ZZ66404		0.18	0.010	1.07	0.19	63.0	<0.2	10	750	0.08	0.33	0.08	0.14	5.71	0.4	17
ZZ66405		0.26	0.016	1.86	1.04	147.5	<0.2	<10	1140	0.95	0.21	1.29	2.16	25.1	9.6	25
ZZ66406		0.30	0.008	0.72	0.86	139.5	<0.2	<10	360	0.51	0.22	0.07	1.29	16.60	6.9	21
ZZ66407		0.16	0.011	6.80	0.52	463	<0.2	<10	90	0.55	0.41	0.06	1.26	20.3	5.6	28
ZZ66408		0.19	0.005	0.94	0.69	126.5	<0.2	<10	360	0.80	0.25	0.10	1.92	22.2	15.1	14
ZZ66409		0.33	0.009	0.72	0.57	123.0	<0.2	<10	400	0.81	0.28	0.17	1.66	23.4	11.9	11
ZZ66410		0.20	0.008	1.69	0.45	100.5	<0.2	<10	220	1.05	0.31	0.08	2.32	25.2	20.8	9
ZZ66411		0.21	0.050	0.28	0.69	80.2	<0.2	<10	220	0.53	0.25	0.02	0.65	16.00	7.5	11
ZZ66412		0.26	0.003	0.41	0.50	47.1	<0.2	<10	240	0.51	0.27	0.06	0.71	8.96	6.3	10
ZZ66413		0.30	0.005	0.24	1.44	349	<0.2	<10	340	0.73	0.25	0.42	1.30	30.1	6.9	25
ZZ66414		0.17	0.025	2.03	7.17	>10000	<0.2	<10	1790	5.79	0.13	1.03	103.0	40.2	22.5	83
ZZ66415		0.13	0.002	0.10	1.53	436	<0.2	<10	190	0.77	0.27	0.63	2.56	31.8	9.8	21
ZZ66416		0.22	0.002	0.30	1.54	62.1	<0.2	<10	320	0.95	0.27	0.42	0.73	28.4	9.1	24
ZZ66417		0.22	0.002	0.16	1.34	18.1	<0.2	<10	390	0.92	0.22	0.64	0.23	58.0	12.4	19
ZZ66418		0.18	0.001	0.05	1.93	54.5	<0.2	<10	230	0.69	0.25	0.72	0.21	30.0	6.6	25
ZZ66419		0.20	0.003	0.28	1.73	94.5	<0.2	<10	260	1.31	0.22	0.51	2.16	95.0	12.4	22
ZZ66420		0.17	0.002	0.04	1.91	38.5	<0.2	<10	210	0.69	0.27	0.26	0.18	32.2	7.1	25
ZZ66421		0.15	<0.001	0.31	0.96	27.1	<0.2	<10	210	0.94	0.45	0.44	3.23	48.1	13.0	13
ZZ66422		0.18	0.001	0.04	1.44	15.4	<0.2	<10	220	0.37	0.37	0.48	0.36	17.25	11.2	22
ZZ66423		0.17	0.006	0.41	0.74	33.2	<0.2	<10	190	0.95	0.22	5.72	4.59	38.6	12.0	14
ZZ66424		0.12	0.003	0.46	0.69	30.8	<0.2	10	150	0.93	0.23	3.75	3.89	39.3	11.5	13
ZZ66425		0.19	0.002	0.47	0.64	45.1	<0.2	<10	160	0.95	0.26	3.68	3.02	38.3	12.9	10
ZZ66426		0.13	0.003	0.97	0.54	23.1	<0.2	<10	220	0.78	0.17	2.77	3.89	24.6	8.2	8
ZZ66427		0.18	0.004	0.09	0.77	21.9	<0.2	<10	180	0.61	0.24	0.22	0.38	18.55	10.3	15
ZZ66428		0.15	0.009	0.90	0.84	1265	<0.2	<10	170	0.89	0.21	3.16	7.16	38.1	12.3	18
ZZ66429		0.20	0.008	0.57	1.17	1045	<0.2	<10	420	1.07	0.24	0.61	9.35	26.6	10.6	21
ZZ66430		0.13	0.007	0.51	0.84	176.5	<0.2	<10	380	0.62	0.25	0.14	2.07	20.1	11.0	19
ZZ66431		0.18	0.006	1.13	0.52	60.9	<0.2	<10	600	0.21	0.29	0.08	0.58	12.15	2.6	11
ZZ66432		0.24	0.009	1.04	0.85	133.0	<0.2	<10	710	0.92	0.27	0.15	2.09	23.2	11.7	17
ZZ66433		0.19	0.012	2.77	0.58	232	<0.2	10	390	0.55	0.29	0.50	2.34	18.40	7.4	27
ZZ66434		0.16	0.355	2.18	0.72	235	0.2	<10	1310	0.65	0.21	0.48	2.00	11.45	5.4	27
ZZ66435		0.11	0.007	1.16	0.90	35.4	<0.2	<10	1780	0.63	0.20	0.60	1.98	16.20	10.2	31
ZZ66436		0.12	0.004	2.01	0.54	45.0	<0.2	10	1940	0.57	0.17	1.48	2.01	11.05	6.1	32
ZZ66437		0.12	0.009	1.27	0.59	61.2	<0.2	<10	1620	0.59	0.16	1.36	1.06	10.95	5.2	23
ZZ66461		0.39	0.002	0.11	1.51	12.2	<0.2	<10	190	0.69	0.26	0.44	0.11	34.6	9.7	23
ZZ66462		0.25	0.002	0.11	1.56	16.2	<0.2	<10	130	1.19	0.22	0.22	0.35	82.0	12.3	30
ZZ66463		0.25	0.002	0.05	1.03	15.8	<0.2	<10	80	0.85	0.36	0.06	0.31	45.3	12.7	20
ZZ66464		0.29	0.002	0.04	2.03	17.6	<0.2	<10	200	0.74	0.29	0.19	0.14	40.3	10.7	30

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 19- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66402		2.57	55.6	2.46	2.83	0.13	0.09	0.28	0.037	0.10	10.4	5.6	0.12	161	24.5	0.01
ZZ66403		3.41	43.5	1.77	2.71	0.12	0.03	0.13	0.032	0.18	7.6	2.7	0.04	36	28.8	<0.01
ZZ66404		3.92	18.7	1.21	2.32	0.07	0.03	0.72	0.033	0.21	2.5	1.0	0.03	8	7.48	0.01
ZZ66405		2.69	50.0	3.70	3.01	0.07	0.10	0.50	0.045	0.11	14.7	7.9	0.56	630	6.06	0.01
ZZ66406		4.88	39.2	3.16	3.15	0.05	0.03	0.17	0.038	0.11	8.1	4.8	0.14	239	7.34	0.01
ZZ66407		16.15	73.1	8.43	3.31	0.16	0.03	0.44	0.150	0.68	9.1	4.2	0.07	167	37.9	0.04
ZZ66408		14.30	63.8	3.63	2.14	0.07	0.03	0.10	0.048	0.13	9.2	4.0	0.11	326	6.04	0.01
ZZ66409		5.59	68.1	3.25	1.86	0.07	0.03	0.19	0.033	0.13	8.9	5.5	0.11	364	4.84	0.01
ZZ66410		10.75	90.4	3.34	1.71	0.07	0.03	0.27	0.044	0.13	8.6	0.9	0.03	875	5.83	0.01
ZZ66411		9.41	47.3	2.88	2.28	<0.05	0.03	0.08	0.039	0.12	7.1	1.8	0.05	138	5.13	0.01
ZZ66412		17.60	60.7	2.30	2.45	0.05	<0.02	0.09	0.035	0.14	4.1	1.9	0.06	121	4.73	0.01
ZZ66413		3.64	34.9	2.90	4.17	0.10	0.07	0.14	0.038	0.08	16.2	9.9	0.31	256	3.86	0.01
ZZ66414		5.33	129.5	6.46	1.98	0.23	0.27	3.98	0.058	0.06	33.3	4.4	0.06	526	15.90	<0.01
ZZ66415		1.18	25.7	3.83	4.98	0.09	0.05	0.10	0.040	0.13	13.0	14.6	0.19	585	3.57	0.01
ZZ66416		1.57	34.4	3.80	5.23	0.10	0.08	0.10	0.042	0.09	16.6	8.9	0.17	688	3.48	0.01
ZZ66417		0.55	36.4	3.43	3.08	0.09	0.08	0.05	0.049	0.10	23.0	8.4	0.19	256	2.13	0.01
ZZ66418		2.31	18.1	3.26	6.38	0.06	0.04	0.02	0.040	0.07	12.2	13.1	0.24	252	3.14	0.01
ZZ66419		1.49	31.2	3.82	3.45	0.13	0.10	0.08	0.049	0.09	31.8	14.2	0.30	1040	4.17	0.01
ZZ66420		1.76	14.8	3.46	6.41	0.07	0.03	0.03	0.040	0.06	12.7	16.0	0.25	369	2.30	0.01
ZZ66421		1.01	31.6	3.37	2.72	0.12	0.06	0.08	0.060	0.10	24.9	10.2	0.18	459	6.50	0.01
ZZ66422		1.96	25.5	3.79	6.38	0.07	0.02	0.03	0.031	0.07	7.9	16.4	0.32	804	2.12	0.01
ZZ66423		1.87	60.5	2.65	2.41	0.10	0.08	0.21	0.040	0.18	22.9	8.8	3.06	382	28.9	0.02
ZZ66424		2.13	36.2	3.10	1.92	0.09	0.14	0.13	0.044	0.16	24.1	5.5	1.46	234	10.45	0.02
ZZ66425		1.74	34.5	3.16	1.77	0.10	0.08	0.16	0.046	0.15	23.5	4.9	1.53	233	11.25	0.02
ZZ66426		0.35	30.8	2.29	1.31	0.06	0.08	0.22	0.032	0.09	16.2	3.4	0.09	247	5.49	0.02
ZZ66427		0.82	42.4	3.63	3.02	0.05	0.02	0.04	0.048	0.14	10.9	5.4	0.12	189	3.16	0.01
ZZ66428		1.60	24.5	3.57	2.15	0.09	0.07	0.41	0.038	0.13	24.6	6.2	0.99	383	6.87	0.02
ZZ66429		3.59	37.6	3.65	3.65	0.07	0.11	0.54	0.042	0.11	14.6	8.4	0.17	495	6.58	0.01
ZZ66430		4.91	41.3	3.79	3.09	0.05	0.03	0.13	0.044	0.15	7.1	4.8	0.11	917	4.92	0.01
ZZ66431		9.32	45.9	3.92	2.69	0.07	0.02	0.16	0.056	0.29	5.4	1.0	0.03	43	10.20	0.03
ZZ66432		5.36	77.0	3.48	2.45	0.07	0.06	0.25	0.049	0.11	8.9	6.4	0.13	391	5.04	0.01
ZZ66433		2.19	59.3	4.52	2.40	0.10	0.04	0.55	0.069	0.27	11.0	3.5	0.07	342	35.2	0.02
ZZ66434		2.37	54.6	2.77	2.15	0.07	0.07	2.57	0.045	0.12	6.2	4.4	0.09	177	6.11	0.01
ZZ66435		1.88	37.5	3.32	1.79	0.08	0.07	0.14	0.045	0.05	7.2	5.5	0.07	300	5.99	0.01
ZZ66436		1.49	42.1	2.64	1.43	0.09	0.10	0.21	0.034	0.08	7.6	3.0	0.05	121	7.96	0.01
ZZ66437		1.03	33.6	2.39	1.71	0.07	0.08	0.15	0.032	0.07	6.3	2.9	0.06	170	6.87	0.01
ZZ66461		1.25	17.7	3.49	4.36	0.06	0.07	0.03	0.036	0.06	12.2	14.7	0.37	567	0.94	0.01
ZZ66462		1.04	21.4	3.79	2.64	0.10	0.12	0.05	0.051	0.05	18.2	11.1	0.18	779	0.66	0.01
ZZ66463		1.55	31.3	3.95	2.05	0.07	0.07	0.03	0.050	0.06	7.4	12.7	0.13	512	0.66	0.01
ZZ66464		1.55	16.4	3.97	5.83	0.08	0.05	0.03	0.038	0.05	13.7	17.9	0.45	679	1.37	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66402		0.24	94.8	2290	13.1	9.1	0.002	0.11	5.98	5.1	14.7	0.6	247	0.01	0.13	1.7
ZZ66403		0.16	47.8	1740	15.0	13.3	0.003	0.25	7.94	1.8	15.2	0.6	137.5	0.01	0.13	0.5
ZZ66404		0.06	6.6	480	29.4	12.1	0.015	0.32	2.68	1.7	7.6	0.5	140.0	<0.01	0.11	4.2
ZZ66405		0.27	55.6	1280	36.0	10.3	0.002	0.11	2.34	5.7	3.4	0.5	67.5	<0.01	0.08	1.8
ZZ66406		0.27	40.0	1270	24.7	13.6	<0.001	0.12	2.57	1.9	2.6	0.5	44.5	<0.01	0.09	0.5
ZZ66407		0.26	45.8	2900	83.4	57.9	0.002	1.59	14.20	5.9	17.5	1.2	419	<0.01	0.54	4.1
ZZ66408		0.19	60.6	1290	36.0	14.5	0.001	0.09	4.58	3.0	3.1	0.4	47.6	<0.01	0.12	1.2
ZZ66409		0.13	54.1	1200	29.2	11.5	0.002	0.04	2.62	3.9	2.0	0.3	25.1	<0.01	0.07	3.1
ZZ66410		0.09	70.1	1350	63.7	16.5	0.001	0.06	4.93	4.8	2.8	0.4	31.0	<0.01	0.09	2.7
ZZ66411		0.18	36.2	800	22.0	15.2	0.001	0.06	2.69	2.6	1.9	0.5	13.6	<0.01	0.09	1.3
ZZ66412		0.17	31.3	890	18.6	19.8	0.001	0.08	2.18	2.1	2.2	0.4	17.4	<0.01	0.09	0.6
ZZ66413		0.44	41.2	1040	21.0	14.2	<0.001	0.04	2.10	3.7	2.1	0.5	44.9	0.01	0.08	1.9
ZZ66414		0.14	484	4730	303	7.2	0.002	0.05	15.75	6.2	5.9	0.3	578	0.04	0.15	2.5
ZZ66415		0.48	42.9	670	30.2	14.1	<0.001	0.05	1.32	3.5	2.1	0.7	24.1	<0.01	0.06	2.6
ZZ66416		0.43	33.6	1440	23.8	16.8	<0.001	0.07	1.17	3.6	1.6	0.7	17.0	0.01	0.07	1.5
ZZ66417		0.11	45.1	590	14.3	13.9	<0.001	0.02	0.75	3.9	1.2	0.4	16.7	<0.01	0.04	4.1
ZZ66418		0.66	24.9	1260	18.5	13.9	<0.001	0.05	1.08	2.0	1.0	0.7	23.2	<0.01	0.05	1.0
ZZ66419		0.31	54.5	1160	25.0	15.2	0.001	0.05	1.95	5.0	2.1	0.4	24.3	0.01	0.06	3.1
ZZ66420		0.57	21.1	1270	16.7	12.2	<0.001	0.06	0.85	1.6	0.9	0.7	15.5	<0.01	0.06	0.5
ZZ66421		0.13	47.5	270	23.2	9.0	<0.001	0.02	3.66	5.6	1.7	0.3	32.9	0.01	0.04	4.6
ZZ66422		0.33	18.8	1190	19.2	13.9	<0.001	0.05	0.66	1.7	0.5	0.6	32.3	<0.01	0.08	0.4
ZZ66423		0.17	93.5	600	19.1	12.1	<0.001	0.04	7.20	5.9	3.2	0.4	59.0	0.01	0.10	4.5
ZZ66424		0.18	63.9	1220	18.2	10.9	0.001	0.08	5.71	4.9	2.7	0.4	47.9	0.01	0.08	2.6
ZZ66425		0.12	71.8	750	17.8	9.5	0.001	0.07	5.78	5.0	2.9	0.3	47.1	0.01	0.08	2.4
ZZ66426		0.17	46.2	1360	11.9	5.3	<0.001	0.15	3.46	2.6	3.0	0.2	120.5	0.01	0.04	0.9
ZZ66427		0.18	57.5	1790	19.6	10.0	<0.001	0.08	1.04	3.4	1.1	0.4	28.3	<0.01	0.09	1.2
ZZ66428		0.25	133.5	940	117.0	7.7	0.001	0.08	5.44	3.7	3.9	0.3	64.2	0.01	0.05	1.9
ZZ66429		0.33	117.0	1500	80.3	15.2	<0.001	0.10	3.40	3.3	2.4	0.5	41.4	0.01	0.08	1.6
ZZ66430		0.25	40.4	1770	41.7	17.1	<0.001	0.15	2.48	1.6	2.1	0.5	30.1	<0.01	0.08	0.5
ZZ66431		0.23	22.8	1560	21.7	23.3	<0.001	0.62	4.57	1.5	4.8	0.7	85.3	<0.01	0.18	1.3
ZZ66432		0.19	57.8	860	36.1	13.1	0.001	0.06	3.00	4.6	2.7	0.5	32.9	0.01	0.10	2.7
ZZ66433		0.12	77.2	2240	29.4	16.5	0.009	0.52	7.14	2.7	8.9	0.8	152.5	<0.01	0.31	0.9
ZZ66434		0.18	60.7	1600	24.0	8.4	0.003	0.20	1.86	3.5	6.2	0.5	118.5	0.01	0.17	0.8
ZZ66435		0.13	69.1	1250	15.6	7.0	0.002	0.09	2.11	4.4	5.9	0.4	95.3	0.01	0.09	0.7
ZZ66436		0.10	80.8	1960	11.0	6.1	0.003	0.14	2.21	4.6	6.3	0.4	281	0.01	0.09	1.3
ZZ66437		0.18	51.3	1240	11.4	6.5	0.002	0.19	1.91	3.0	6.1	0.3	189.0	0.01	0.09	0.6
ZZ66461		0.53	25.1	770	17.1	12.3	<0.001	0.04	0.44	2.9	0.6	0.5	33.7	<0.01	0.05	1.9
ZZ66462		0.37	32.9	670	23.9	8.4	<0.001	0.04	0.28	6.6	1.1	0.3	19.5	0.01	0.03	3.8
ZZ66463		0.16	24.8	680	25.3	10.5	<0.001	0.03	0.31	3.7	0.6	0.4	12.5	<0.01	0.06	3.1
ZZ66464		0.96	25.7	840	21.9	10.5	<0.001	0.03	0.75	2.8	0.7	0.6	15.7	0.01	0.06	1.6

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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66402		0.007	1.05	5.40	218	0.25	36.4	386	1.8
ZZ66403		0.006	1.83	6.14	223	0.21	15.00	216	<0.5
ZZ66404		<0.005	2.90	1.77	57	0.25	3.04	14	1.5
ZZ66405		0.005	0.58	1.65	70	0.25	25.2	289	2.3
ZZ66406		0.007	0.46	1.41	78	0.16	8.22	224	<0.5
ZZ66407		0.005	5.26	2.94	189	0.25	11.90	295	<0.5
ZZ66408		0.007	0.51	1.70	53	0.10	14.85	355	<0.5
ZZ66409		<0.005	0.46	2.08	49	0.08	15.85	291	<0.5
ZZ66410		<0.005	0.95	2.55	51	0.08	17.85	422	<0.5
ZZ66411		<0.005	0.55	1.15	60	0.09	6.69	236	0.5
ZZ66412		0.005	0.35	1.17	46	0.05	5.04	192	<0.5
ZZ66413		0.011	0.78	1.94	92	0.20	17.25	269	1.3
ZZ66414		<0.005	55.6	44.6	1880	0.68	241	4600	4.6
ZZ66415		0.005	1.63	1.24	74	0.14	10.80	350	1.2
ZZ66416		0.007	0.51	1.43	67	0.14	17.45	149	1.3
ZZ66417		<0.005	0.21	1.39	29	<0.05	14.90	117	1.6
ZZ66418		0.009	0.50	1.12	73	0.20	5.62	103	0.9
ZZ66419		0.005	0.42	2.34	60	0.11	28.3	262	1.8
ZZ66420		0.014	0.33	1.04	70	0.29	6.64	96	<0.5
ZZ66421		<0.005	0.32	1.19	68	0.06	19.80	299	1.3
ZZ66422		0.011	0.17	0.60	56	0.15	3.28	71	<0.5
ZZ66423		<0.005	0.36	3.69	175	0.07	28.0	504	2.7
ZZ66424		<0.005	0.46	2.05	64	0.06	27.8	353	3.4
ZZ66425		<0.005	0.48	1.77	54	0.07	28.1	363	1.7
ZZ66426		<0.005	0.29	2.27	43	0.08	20.5	237	1.6
ZZ66427		<0.005	0.14	1.24	34	0.05	6.62	164	0.5
ZZ66428		0.005	2.38	1.38	129	0.17	28.8	1460	1.1
ZZ66429		0.005	2.52	2.90	126	0.21	36.4	943	2.3
ZZ66430		0.005	0.66	1.47	64	0.13	7.84	259	0.5
ZZ66431		0.005	0.92	1.16	98	0.07	3.92	187	<0.5
ZZ66432		<0.005	0.55	1.71	55	0.09	20.4	330	0.8
ZZ66433		<0.005	3.35	3.40	226	0.12	16.70	314	0.7
ZZ66434		<0.005	4.07	4.14	63	0.29	26.3	274	1.2
ZZ66435		<0.005	0.28	3.47	84	0.12	26.5	260	1.4
ZZ66436		<0.005	0.22	4.23	64	0.14	38.5	296	2.3
ZZ66437		<0.005	0.25	2.54	59	0.11	26.0	167	2.0
ZZ66461		0.009	0.13	1.22	37	0.18	7.31	64	1.5
ZZ66462		0.007	0.09	3.11	27	0.09	22.8	79	2.6
ZZ66463		<0.005	0.13	1.26	19	0.06	8.19	97	1.6
ZZ66464		0.026	0.24	1.12	51	0.28	6.69	96	1.0



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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66465		0.27	0.002	0.04	0.62	13.2	<0.2	<10	80	0.75	0.34	0.06	0.09	28.6	13.7	12
ZZ66466		0.20	0.002	0.64	1.03	79.0	<0.2	<10	130	1.33	0.34	1.42	1.38	40.7	8.0	14
ZZ66467		0.39	0.001	0.35	0.55	71.7	<0.2	<10	250	0.52	0.24	5.06	1.36	18.25	9.7	10
ZZ66468		0.30	0.003	0.10	1.52	24.6	<0.2	<10	220	0.71	0.24	0.17	0.44	32.5	12.3	24
ZZ66469		0.41	0.005	0.07	1.43	23.2	<0.2	<10	140	0.67	0.28	0.16	0.51	34.5	15.4	22
ZZ66470		0.31	0.002	0.06	1.84	19.3	<0.2	<10	210	0.81	0.28	0.08	0.32	31.3	13.7	26
ZZ66471		0.20	0.002	0.39	1.46	27.0	<0.2	<10	670	0.75	0.28	0.51	1.25	20.1	10.1	23
ZZ66472		0.24	0.002	0.41	0.61	17.1	<0.2	<10	590	0.79	0.27	2.51	1.15	17.65	9.7	13
ZZ66473		0.22	0.002	0.19	1.11	26.6	<0.2	<10	330	0.76	0.28	0.43	0.48	22.7	12.2	20
ZZ66474		0.15	0.004	1.16	0.43	23.1	<0.2	<10	950	0.69	0.18	4.06	2.76	14.25	8.8	13
ZZ66475		0.25	0.004	0.50	0.80	37.1	<0.2	<10	820	0.88	0.30	0.53	2.14	24.2	17.0	16
ZZ66476		0.27	0.003	0.29	1.45	37.9	<0.2	<10	510	0.99	0.27	0.37	1.61	32.1	11.9	24
ZZ66477		0.31	0.003	0.09	1.34	21.1	<0.2	<10	180	0.65	0.29	0.06	0.40	20.9	10.9	20
ZZ66478		0.30	0.002	0.12	0.96	25.4	<0.2	<10	130	0.85	0.27	0.13	0.55	31.8	16.0	18
ZZ66479		0.29	0.005	0.17	1.26	34.8	<0.2	<10	180	0.92	0.28	0.21	0.69	33.0	16.4	21
ZZ66480		0.29	0.003	1.00	0.97	54.9	<0.2	<10	280	0.97	0.23	4.16	3.41	31.7	14.0	16
ZZ66481		0.18	0.002	0.75	0.29	142	<0.2	<10	210	0.44	0.11	12.65	1.26	14.15	4.5	5
ZZ66482		0.23	0.002	0.09	0.99	16.3	<0.2	<10	130	0.79	0.31	0.09	0.23	33.1	11.5	16
ZZ66483		0.42	0.002	0.06	0.61	45.5	<0.2	<10	80	0.87	0.37	0.10	0.09	25.4	15.5	11
ZZ66484		0.20	0.002	0.11	0.56	19.8	<0.2	<10	110	0.72	0.34	0.06	0.15	20.7	16.2	10
ZZ66485		0.20	0.002	0.15	1.55	14.4	<0.2	<10	200	1.08	0.30	0.51	0.16	43.9	13.8	21
ZZ66486		0.23	0.002	0.13	1.40	13.0	<0.2	<10	290	0.91	0.30	0.46	0.15	35.4	11.1	22
ZZ66487		0.29	0.001	0.12	0.72	11.3	<0.2	<10	90	0.58	0.31	0.19	0.08	16.90	10.2	12
ZZ66488		0.22	0.002	0.06	1.47	12.8	<0.2	<10	150	0.88	0.32	0.43	0.11	36.6	11.2	21
ZZ66489		0.29	0.002	0.04	1.54	13.5	<0.2	<10	160	0.96	0.31	0.22	0.13	40.6	11.6	23
ZZ66490		0.20	0.003	0.28	1.00	15.5	<0.2	<10	170	1.44	0.32	1.12	0.22	49.5	12.9	18
ZZ66491		0.35	0.002	0.12	1.29	14.3	<0.2	<10	140	1.03	0.33	0.29	0.19	46.6	12.4	20
ZZ66492		0.26	0.003	0.03	1.71	14.6	<0.2	<10	160	1.05	0.29	0.13	0.15	44.0	14.4	26
ZZ66493		0.18	0.003	0.20	1.34	30.2	<0.2	<10	190	1.45	0.28	0.12	0.49	58.1	15.4	20
ZZ66494		0.26	0.002	0.35	0.51	436	<0.2	<10	390	0.49	0.16	11.30	2.09	16.65	4.8	8
ZZ66495		0.39	0.001	0.05	0.80	23.4	<0.2	<10	80	1.14	0.30	0.03	0.14	13.95	15.2	12
ZZ66496		0.24	0.002	0.38	1.10	6.1	<0.2	<10	350	1.28	0.19	2.23	0.73	23.9	10.2	16
ZZ66497		0.21	0.004	0.11	1.06	5.0	<0.2	10	620	1.51	0.17	2.65	0.28	27.1	11.4	17
ZZ66498		0.29	0.005	0.57	0.83	23.7	<0.2	<10	290	0.84	0.17	0.79	2.34	27.2	12.5	12
ZZ66499		0.32	0.003	0.71	0.66	44.9	<0.2	10	310	0.90	0.11	1.01	2.33	37.4	17.2	16
ZZ66500		0.23	0.001	0.28	1.17	6.2	<0.2	10	390	1.37	0.19	1.45	1.17	19.90	11.4	17

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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66465		1.24	32.6	3.81	1.34	0.08	0.04	0.03	0.051	0.05	8.0	4.7	0.09	450	0.55	<0.01
ZZ66466		2.07	25.1	5.19	2.27	0.13	0.10	0.26	0.039	0.08	19.0	6.3	0.78	2140	0.56	0.01
ZZ66467		1.43	21.3	2.89	1.97	0.06	0.05	0.11	0.024	0.10	7.8	6.1	3.13	977	0.65	0.02
ZZ66468		1.51	33.1	3.34	4.57	0.07	0.06	0.09	0.033	0.05	13.4	13.3	0.39	661	1.35	0.01
ZZ66469		1.48	41.1	3.96	4.11	0.08	0.07	0.06	0.046	0.05	10.2	15.7	0.29	783	1.75	0.01
ZZ66470		1.59	29.8	3.84	5.24	0.07	0.08	0.06	0.045	0.06	12.4	14.6	0.33	630	1.52	0.01
ZZ66471		1.13	29.2	3.49	4.78	0.07	0.10	0.22	0.039	0.07	12.3	18.4	0.37	474	1.58	0.01
ZZ66472		1.27	31.9	2.89	2.27	0.07	0.08	0.15	0.036	0.10	8.3	9.3	1.32	371	3.27	0.01
ZZ66473		1.18	28.6	3.38	3.72	0.06	0.09	0.06	0.035	0.06	9.1	15.4	0.33	570	1.67	0.01
ZZ66474		0.93	37.1	2.84	1.51	0.07	0.08	0.17	0.031	0.08	7.3	4.8	2.28	677	5.76	0.01
ZZ66475		2.71	42.0	3.78	2.78	0.07	0.12	0.43	0.038	0.09	10.4	9.0	0.32	984	1.78	0.01
ZZ66476		1.47	33.3	3.98	4.36	0.08	0.10	0.54	0.037	0.07	17.5	12.6	0.42	1260	1.49	0.01
ZZ66477		1.50	29.2	3.90	4.75	0.06	0.03	0.04	0.038	0.06	7.8	13.9	0.20	692	1.79	0.01
ZZ66478		0.95	44.0	3.51	2.94	0.09	0.04	0.11	0.033	0.05	14.2	10.3	0.26	773	1.50	0.01
ZZ66479		1.47	47.9	4.05	3.38	0.08	0.06	0.12	0.040	0.06	12.7	11.1	0.31	783	1.48	0.01
ZZ66480		0.90	39.9	4.26	2.28	0.09	0.11	0.42	0.036	0.07	17.5	8.3	2.60	2200	1.37	0.02
ZZ66481		0.77	15.4	4.60	0.97	0.07	0.07	0.15	0.011	0.05	7.1	2.1	7.27	2200	0.61	0.02
ZZ66482		1.91	27.1	3.73	2.73	0.07	0.05	0.05	0.044	0.06	8.7	11.6	0.14	484	0.88	0.01
ZZ66483		1.28	33.5	3.63	1.35	0.08	0.08	0.14	0.046	0.06	8.0	3.5	0.04	334	0.55	0.01
ZZ66484		1.30	36.9	3.97	1.82	0.07	0.03	0.07	0.042	0.07	7.4	5.9	0.09	554	0.68	0.01
ZZ66485		1.85	24.1	4.03	4.25	0.09	0.08	0.04	0.045	0.06	14.9	18.4	0.28	1160	1.28	0.01
ZZ66486		1.35	24.4	3.57	4.17	0.07	0.08	0.04	0.043	0.06	12.3	14.4	0.32	511	0.87	0.01
ZZ66487		1.11	30.6	3.55	2.41	0.06	0.07	0.04	0.039	0.11	5.8	14.7	0.22	406	0.77	0.01
ZZ66488		1.12	22.9	4.25	4.14	0.07	0.05	0.03	0.048	0.06	9.6	19.1	0.26	384	0.84	0.01
ZZ66489		1.20	23.3	3.82	4.33	0.07	0.08	0.04	0.043	0.06	12.9	14.7	0.30	518	0.94	0.01
ZZ66490		1.01	35.6	4.12	2.04	0.13	0.11	0.07	0.052	0.06	24.4	8.3	0.16	391	0.62	0.01
ZZ66491		1.18	28.1	4.30	3.70	0.10	0.07	0.04	0.047	0.06	15.8	13.1	0.21	483	0.88	0.01
ZZ66492		1.59	24.5	3.40	4.99	0.08	0.07	0.03	0.041	0.06	15.0	19.9	0.44	435	1.04	0.01
ZZ66493		1.98	35.2	3.92	2.88	0.10	0.10	0.12	0.045	0.06	13.0	10.9	0.22	647	0.81	0.01
ZZ66494		0.78	18.7	4.68	1.46	0.07	0.08	0.47	0.018	0.05	8.4	4.7	6.49	2230	0.78	0.03
ZZ66495		1.64	30.9	3.57	2.76	0.06	0.04	0.02	0.039	0.12	5.5	9.1	0.11	171	0.59	0.01
ZZ66496		1.19	26.6	2.91	3.06	0.08	0.10	0.06	0.038	0.11	14.2	9.3	0.14	392	3.29	0.01
ZZ66497		0.91	20.7	3.10	2.75	0.09	0.11	0.05	0.044	0.14	17.0	12.8	0.22	219	1.77	0.01
ZZ66498		0.74	55.5	3.59	2.95	0.09	0.10	0.09	0.043	0.16	12.5	11.5	0.22	275	8.08	0.01
ZZ66499		0.69	65.3	4.93	2.26	0.12	0.07	0.25	0.052	0.15	18.7	5.4	0.12	373	5.86	0.01
ZZ66500		0.99	25.0	3.27	3.16	0.08	0.11	0.05	0.040	0.17	11.9	11.4	0.29	231	4.36	0.01

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**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66465		0.13	30.0	410	32.5	8.6	<0.001	0.01	0.45	4.1	0.6	0.3	22.5	<0.01	0.07	4.1
ZZ66466		0.26	32.0	720	139.5	12.1	<0.001	0.05	1.23	5.0	1.0	0.4	18.7	0.01	0.06	3.4
ZZ66467		0.26	19.8	570	85.5	8.8	<0.001	0.03	1.00	3.6	0.5	0.4	44.0	<0.01	0.05	3.5
ZZ66468		0.75	33.1	550	40.9	11.2	<0.001	0.01	0.81	4.3	0.8	0.5	17.0	<0.01	0.06	4.1
ZZ66469		0.58	33.9	830	39.5	10.5	<0.001	0.02	0.80	4.0	0.9	0.5	16.7	<0.01	0.07	3.1
ZZ66470		0.69	24.7	910	35.2	11.3	<0.001	0.03	0.66	4.0	0.9	0.6	12.6	<0.01	0.07	2.0
ZZ66471		0.53	24.6	630	50.1	11.4	<0.001	0.04	0.64	4.5	1.1	0.6	17.9	<0.01	0.07	2.1
ZZ66472		0.22	34.5	650	32.4	10.0	0.002	0.06	0.96	4.7	2.1	0.5	45.6	<0.01	0.04	3.5
ZZ66473		0.43	27.7	490	43.0	10.6	<0.001	0.03	0.76	3.9	1.0	0.5	25.0	<0.01	0.05	2.5
ZZ66474		0.12	55.6	910	21.1	7.7	0.001	0.05	1.65	4.6	2.6	0.4	141.5	<0.01	0.09	1.9
ZZ66475		0.32	44.3	600	65.2	10.9	<0.001	0.05	1.04	4.9	1.1	0.5	30.3	<0.01	0.06	2.6
ZZ66476		0.52	33.7	670	80.2	12.1	<0.001	0.03	1.03	5.3	1.3	0.5	18.2	0.01	0.06	2.8
ZZ66477		0.50	22.4	630	32.3	14.4	<0.001	0.02	0.65	3.2	0.6	0.6	9.8	<0.01	0.07	1.7
ZZ66478		0.33	34.8	610	45.9	8.1	<0.001	0.01	0.85	5.0	1.0	0.4	18.5	<0.01	0.06	4.1
ZZ66479		0.40	40.2	720	68.1	11.2	<0.001	0.01	0.98	5.2	1.0	0.5	19.9	<0.01	0.07	4.7
ZZ66480		0.24	34.6	1110	125.5	6.8	<0.001	0.04	1.38	7.1	1.2	0.4	38.6	0.01	0.08	2.8
ZZ66481		0.13	11.5	1000	110.5	4.4	<0.001	0.06	1.58	2.3	0.7	0.2	96.2	<0.01	0.05	2.0
ZZ66482		0.33	26.3	630	35.7	14.4	<0.001	0.02	0.56	3.4	0.6	0.4	18.3	<0.01	0.06	2.3
ZZ66483		0.18	30.4	380	35.7	8.7	<0.001	0.01	0.46	5.8	0.7	0.4	23.5	0.01	0.05	6.5
ZZ66484		0.15	32.6	370	48.6	8.9	<0.001	0.02	0.45	4.6	0.7	0.4	15.0	<0.01	0.06	2.9
ZZ66485		0.38	28.6	1330	69.1	14.4	<0.001	0.03	0.49	5.0	0.8	0.5	48.6	0.01	0.06	2.8
ZZ66486		0.46	27.3	810	21.6	13.9	<0.001	0.04	0.44	4.3	0.7	0.5	34.9	<0.01	0.06	2.3
ZZ66487		0.15	24.9	550	57.3	9.5	<0.001	0.03	0.28	3.6	0.5	0.3	16.6	<0.01	0.06	2.7
ZZ66488		0.48	27.1	610	24.9	13.0	<0.001	0.03	0.37	3.6	0.6	0.6	36.1	<0.01	0.07	2.3
ZZ66489		0.49	25.6	800	22.6	12.3	<0.001	0.04	0.41	4.0	0.8	0.5	21.8	0.01	0.06	2.2
ZZ66490		0.18	37.9	500	27.8	10.1	<0.001	0.03	0.34	8.9	1.3	0.4	112.5	0.01	0.07	4.9
ZZ66491		0.42	28.6	620	24.6	11.9	<0.001	0.02	0.40	5.1	0.8	0.5	27.2	0.01	0.07	3.7
ZZ66492		0.69	32.9	510	18.8	13.4	<0.001	0.02	0.59	4.2	0.7	0.5	19.2	<0.01	0.05	2.4
ZZ66493		0.41	44.3	420	62.6	10.7	<0.001	0.02	0.60	6.6	1.0	0.4	22.6	0.01	0.05	6.6
ZZ66494		0.20	15.0	1160	89.0	5.8	<0.001	0.06	1.36	2.7	0.8	0.2	58.5	<0.01	0.04	1.3
ZZ66495		0.19	34.7	500	20.3	11.2	<0.001	0.04	0.28	3.6	0.5	0.5	7.6	<0.01	0.12	1.7
ZZ66496		0.35	32.4	1600	13.9	13.6	0.001	0.12	0.89	3.0	1.8	0.5	52.5	0.01	0.05	1.1
ZZ66497		0.34	37.0	1030	13.2	10.6	<0.001	0.11	0.29	3.5	1.0	0.5	80.2	<0.01	0.02	1.2
ZZ66498		0.26	37.5	1770	14.8	9.8	0.003	0.07	2.81	4.9	2.5	0.5	37.6	<0.01	0.04	1.8
ZZ66499		0.25	51.3	2020	18.9	6.9	0.006	0.09	2.14	7.3	2.9	0.5	37.1	<0.01	0.04	2.4
ZZ66500		0.31	37.7	800	14.7	11.9	<0.001	0.08	1.45	4.7	1.6	0.5	45.4	<0.01	0.02	1.8

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 Plus Appendix Pages  
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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155844**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66465		<0.005	0.12	0.92	18	0.05	10.65	86	0.7
ZZ66466		<0.005	0.65	1.79	14	0.11	22.7	475	1.7
ZZ66467		0.008	0.57	0.97	16	0.09	8.28	250	1.4
ZZ66468		0.017	0.28	1.08	43	0.21	8.63	161	1.3
ZZ66469		0.009	0.28	1.01	43	0.17	7.57	164	1.8
ZZ66470		0.012	0.27	1.68	50	0.18	8.20	180	1.7
ZZ66471		0.007	0.27	2.72	44	0.15	12.75	223	2.1
ZZ66472		<0.005	0.16	1.21	32	0.05	14.15	242	2.2
ZZ66473		0.010	0.21	1.46	36	0.16	7.51	209	2.3
ZZ66474		<0.005	0.22	1.54	52	0.07	21.8	332	1.9
ZZ66475		0.009	0.58	1.52	28	0.11	13.20	301	2.8
ZZ66476		0.012	0.38	1.49	43	0.20	16.90	383	2.2
ZZ66477		0.006	0.26	0.76	49	0.13	4.79	158	0.7
ZZ66478		0.009	0.20	1.22	35	0.11	13.75	188	0.7
ZZ66479		0.009	0.33	1.08	36	0.13	10.30	236	1.4
ZZ66480		0.007	0.49	1.68	29	0.11	25.1	510	2.2
ZZ66481		<0.005	1.73	3.18	7	0.12	11.10	217	1.9
ZZ66482		0.006	0.25	1.08	25	0.11	8.91	115	0.8
ZZ66483		<0.005	0.20	1.07	15	0.05	13.65	77	2.3
ZZ66484		<0.005	0.18	0.82	15	0.05	12.25	160	0.5
ZZ66485		0.006	0.17	3.13	33	0.14	18.85	93	1.6
ZZ66486		0.008	0.14	1.73	33	0.15	11.80	79	1.9
ZZ66487		<0.005	0.16	0.72	14	<0.05	7.68	164	1.8
ZZ66488		0.005	0.13	1.06	32	0.13	8.06	79	1.0
ZZ66489		0.007	0.14	1.59	35	0.18	12.10	80	1.6
ZZ66490		<0.005	0.12	2.01	19	0.07	35.1	93	2.0
ZZ66491		0.005	0.16	1.49	31	0.11	18.10	87	1.3
ZZ66492		0.015	0.17	1.25	41	0.20	11.45	95	1.4
ZZ66493		0.007	0.30	1.17	26	0.12	15.70	156	2.5
ZZ66494		0.005	2.14	2.47	13	0.12	12.60	499	2.0
ZZ66495		<0.005	0.12	0.52	21	<0.05	5.25	136	0.8
ZZ66496		<0.005	0.20	1.78	44	0.06	13.50	100	3.2
ZZ66497		<0.005	0.17	0.64	24	0.05	14.35	76	4.4
ZZ66498		<0.005	0.25	1.91	43	<0.05	11.85	243	2.4
ZZ66499		<0.005	0.32	2.69	44	<0.05	13.80	287	1.7
ZZ66500		<0.005	0.22	1.02	30	0.05	17.05	158	3.5



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**CERTIFICATE OF ANALYSIS WH12155844**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12155845**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 13  
 This report is for 215 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56001		0.19	<0.001	0.07	1.37	4.9	<0.2	10	860	1.63	0.17	3.44	0.10	29.2	14.4	21
ZZ56002		0.33	<0.001	0.08	1.25	14.7	<0.2	<10	100	0.52	0.23	0.06	0.20	15.35	10.4	19
ZZ56003		0.18	<0.001	0.06	1.59	10.9	<0.2	<10	90	0.60	0.27	0.05	0.14	18.40	6.6	21
ZZ56004		0.36	<0.001	0.06	1.52	12.6	<0.2	<10	230	0.83	0.29	0.11	0.10	15.20	10.7	24
ZZ56005		0.14	<0.001	0.08	1.75	11.4	<0.2	<10	500	1.47	0.35	0.38	0.23	15.55	14.3	26
ZZ56006		0.25	0.001	0.07	1.89	97.8	<0.2	<10	160	1.18	0.30	0.12	0.28	30.0	18.6	28
ZZ56007		0.38	0.001	0.05	1.88	45.3	<0.2	<10	260	1.28	0.34	0.21	0.17	25.0	17.5	30
ZZ56008		0.25	0.001	0.03	1.80	21.6	<0.2	<10	170	0.79	0.29	0.13	0.14	20.1	8.8	30
ZZ56009		0.21	<0.001	0.11	1.50	44.0	<0.2	<10	160	0.93	0.34	0.21	0.12	17.85	15.8	26
ZZ56010		0.23	0.003	0.35	1.67	48.4	<0.2	<10	290	1.33	0.26	1.34	0.45	13.10	11.0	23
ZZ56011		0.31	0.001	0.21	1.85	37.1	<0.2	<10	240	1.32	0.31	0.73	0.32	22.5	12.7	29
ZZ56012		0.30	0.001	0.15	1.85	35.6	<0.2	<10	280	1.28	0.35	0.55	0.20	18.90	13.0	28
ZZ56013		0.29	0.001	0.08	1.89	76.7	<0.2	<10	200	0.96	0.35	0.36	0.24	22.8	17.4	27
ZZ56014		0.28	<0.001	0.04	1.77	27.1	<0.2	<10	100	0.58	0.31	0.09	0.15	21.8	13.5	26
ZZ56015		0.39	<0.001	0.35	0.65	397	<0.2	<10	100	0.43	0.10	11.30	1.69	19.15	7.4	11
ZZ56016		0.19	<0.001	0.25	0.82	263	<0.2	<10	140	0.69	0.12	11.00	1.04	20.2	5.9	12
ZZ56017		0.31	<0.001	0.26	1.14	235	<0.2	<10	110	0.72	0.17	7.64	0.83	19.30	8.8	19
ZZ56018		0.25	<0.001	0.11	1.01	66.3	<0.2	<10	120	1.71	0.33	0.96	0.23	44.4	18.4	17
ZZ56019		0.32	<0.001	0.07	2.41	24.2	<0.2	<10	160	1.08	0.29	0.20	0.23	26.1	16.8	34
ZZ56020		0.19	0.001	0.14	1.35	28.1	<0.2	<10	210	1.25	0.23	1.49	0.27	35.8	14.4	28
ZZ67736		0.28	<0.001	0.27	1.83	45.0	<0.2	<10	290	1.32	0.28	0.83	1.55	27.7	16.8	36
ZZ67737		0.23	<0.001	0.17	2.05	61.7	<0.2	<10	210	1.37	0.30	0.64	1.20	18.20	22.6	43
ZZ67738		0.27	<0.001	0.37	1.76	46.7	<0.2	<10	240	1.33	0.28	0.72	1.04	17.50	22.7	35
ZZ67739		0.34	0.008	0.33	1.35	293	<0.2	<10	440	1.10	0.20	5.12	1.35	19.35	10.9	23
ZZ67740		0.21	<0.001	0.12	1.22	56.6	<0.2	<10	380	0.52	0.22	1.22	0.43	9.57	8.8	23
ZZ67741		0.26	0.006	0.69	1.05	88.5	<0.2	<10	350	0.93	0.19	1.38	1.05	12.80	10.1	24
ZZ67742		0.26	0.004	0.46	1.28	209	<0.2	<10	480	1.10	0.21	1.55	1.09	16.15	12.7	25
ZZ67743		0.30	0.010	0.41	1.28	248	<0.2	<10	330	1.10	0.19	5.77	1.45	19.10	12.5	22
ZZ67744		0.35	0.005	0.89	0.98	338	<0.2	<10	320	0.95	0.14	8.32	1.80	14.90	9.8	18
ZZ67745		0.35	0.006	0.40	0.94	176.5	<0.2	<10	190	0.73	0.17	8.11	1.79	19.05	10.6	18
ZZ67746		0.24	0.006	0.56	1.39	143.5	<0.2	<10	410	0.91	0.21	4.06	1.78	24.9	12.4	26
ZZ67747		0.26	0.004	0.77	0.81	114.5	<0.2	<10	390	0.95	0.23	1.04	1.32	13.75	9.3	14
ZZ67748		0.23	0.005	0.79	0.63	109.5	<0.2	<10	370	0.83	0.24	0.48	1.62	16.00	11.0	11
ZZ67749		0.33	0.005	0.64	0.42	84.9	<0.2	<10	300	0.87	0.24	0.17	2.47	21.5	14.0	8
ZZ67750		0.32	0.001	0.14	0.57	91.1	<0.2	<10	140	0.35	0.25	0.05	0.30	9.89	5.7	10
ZZ67751		0.28	0.001	0.23	0.35	140.5	<0.2	<10	180	0.37	0.22	0.02	0.34	5.76	6.4	8
ZZ67752		0.34	0.005	0.65	0.39	154.5	<0.2	<10	270	0.89	0.26	0.14	0.95	10.85	18.3	7
ZZ67753		0.24	0.004	0.92	0.87	47.7	<0.2	<10	370	0.72	0.28	0.41	1.06	14.30	13.4	13
ZZ67754		0.25	0.003	0.58	0.81	124.5	<0.2	<10	220	0.85	0.23	0.60	2.72	15.65	12.8	13
ZZ67755		0.27	0.003	0.45	0.86	123.0	<0.2	<10	340	1.02	0.24	1.61	1.93	14.80	12.5	16

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56001		1.58	19.0	3.77	3.18	0.15	0.09	0.08	0.048	0.21	14.3	14.5	0.34	326	1.58	<0.01
ZZ56002		1.93	22.1	3.62	3.81	0.09	0.03	0.05	0.027	0.09	6.4	15.0	0.28	316	1.05	<0.01
ZZ56003		3.12	13.9	2.68	5.65	0.07	0.03	0.05	0.025	0.10	8.6	10.8	0.21	172	1.50	<0.01
ZZ56004		2.80	21.4	3.42	4.70	0.11	0.07	0.04	0.034	0.12	6.5	15.3	0.24	323	2.05	<0.01
ZZ56005		4.13	36.9	3.57	6.77	0.11	0.04	0.04	0.036	0.15	7.2	11.4	0.25	1540	1.57	<0.01
ZZ56006		2.45	49.8	5.37	5.21	0.17	0.07	0.45	0.043	0.08	9.9	32.4	0.52	1400	0.93	<0.01
ZZ56007		2.60	46.2	4.88	5.84	0.14	0.04	0.13	0.040	0.09	8.7	25.2	0.54	988	0.99	<0.01
ZZ56008		2.71	20.9	3.61	5.96	0.09	0.02	0.07	0.027	0.08	8.8	21.7	0.41	402	1.34	<0.01
ZZ56009		2.33	27.0	3.95	6.00	0.10	0.03	0.19	0.036	0.09	7.0	19.1	0.34	967	0.84	<0.01
ZZ56010		2.42	37.8	3.19	5.03	0.10	0.12	0.45	0.038	0.12	7.6	17.4	0.44	540	0.68	0.01
ZZ56011		2.60	33.7	3.70	5.58	0.10	0.11	0.31	0.041	0.12	10.5	25.0	0.46	644	0.83	0.01
ZZ56012		2.31	30.9	4.00	5.72	0.10	0.11	0.26	0.035	0.12	8.8	26.1	0.44	783	0.75	0.01
ZZ56013		1.96	44.4	4.85	5.67	0.10	0.05	1.02	0.037	0.09	8.7	26.5	0.51	1200	0.80	0.01
ZZ56014		2.11	43.8	4.32	7.17	0.11	0.03	0.13	0.039	0.07	9.5	24.0	0.40	466	1.27	0.01
ZZ56015		0.63	15.9	5.97	2.14	0.14	0.05	7.54	0.020	0.04	10.5	5.6	6.36	3700	0.78	0.02
ZZ56016		0.68	12.2	4.29	2.28	0.11	0.04	5.04	0.018	0.03	12.9	4.8	6.05	5690	0.65	0.03
ZZ56017		0.74	16.6	2.51	3.25	0.08	0.05	1.97	0.021	0.05	10.7	10.8	4.44	1660	0.97	0.02
ZZ56018		2.24	42.2	4.20	2.08	0.15	0.11	0.20	0.062	0.10	16.7	8.9	0.22	564	0.91	0.01
ZZ56019		2.18	33.7	5.19	5.36	0.11	0.06	0.06	0.065	0.09	10.3	35.1	0.49	615	1.17	0.01
ZZ56020		2.55	39.8	3.86	3.48	0.12	0.10	0.11	0.048	0.12	20.8	19.0	0.57	414	0.88	0.01
ZZ67736		1.97	26.0	3.89	4.61	0.18	0.12	0.11	0.046	0.08	24.9	17.3	0.20	722	1.68	0.01
ZZ67737		1.82	28.8	5.19	4.71	0.17	0.07	0.06	0.064	0.09	14.9	31.9	0.25	710	1.71	0.02
ZZ67738		1.97	32.8	4.40	3.96	0.16	0.08	0.10	0.052	0.10	13.6	23.2	0.29	920	1.73	0.01
ZZ67739		1.12	26.1	3.23	3.34	0.08	0.07	1.00	0.033	0.10	10.0	13.4	2.74	1180	2.00	0.02
ZZ67740		0.82	17.9	2.76	3.91	0.06	0.04	0.59	0.032	0.09	4.7	14.1	0.24	276	1.52	0.02
ZZ67741		1.18	27.7	3.12	2.98	0.10	0.05	0.33	0.042	0.09	8.6	11.6	0.28	323	2.35	0.01
ZZ67742		1.17	39.3	3.16	3.85	0.11	0.06	0.80	0.034	0.09	9.4	12.5	0.31	695	2.09	0.01
ZZ67743		1.14	27.5	2.71	3.57	0.09	0.05	1.20	0.026	0.08	9.7	14.4	2.80	668	2.14	0.02
ZZ67744		0.92	27.0	2.38	2.73	0.08	0.05	17.20	0.025	0.07	6.9	10.4	3.31	536	2.65	0.02
ZZ67745		1.28	27.6	2.49	2.66	0.08	0.04	0.94	0.027	0.09	9.3	12.2	2.25	527	2.73	0.02
ZZ67746		1.39	33.5	3.14	4.32	0.11	0.05	0.76	0.038	0.09	13.0	15.4	1.54	734	2.35	0.02
ZZ67747		4.48	58.0	2.58	2.65	0.09	0.08	0.45	0.040	0.14	6.8	6.8	0.22	366	4.27	0.01
ZZ67748		9.54	65.1	2.75	1.99	0.11	0.05	0.56	0.042	0.15	6.6	3.9	0.12	352	3.81	0.01
ZZ67749		18.10	91.7	3.94	1.48	0.15	0.04	0.34	0.041	0.14	8.6	1.7	0.06	282	9.27	0.01
ZZ67750		7.47	44.0	2.12	2.91	0.06	<0.02	0.14	0.028	0.10	4.8	1.7	0.05	119	4.20	0.01
ZZ67751		8.75	42.5	2.55	1.59	0.07	<0.02	0.19	0.029	0.12	2.5	1.1	0.03	121	4.59	0.01
ZZ67752		12.15	67.6	2.72	1.29	0.10	0.02	0.33	0.045	0.14	4.4	1.9	0.06	475	5.73	0.01
ZZ67753		9.57	50.2	2.66	2.88	0.09	0.03	0.37	0.042	0.13	6.4	7.2	0.17	509	4.82	0.01
ZZ67754		4.79	51.1	2.69	2.48	0.10	0.07	0.45	0.040	0.13	6.5	7.3	0.27	1000	3.26	0.01
ZZ67755		3.56	51.6	3.09	2.83	0.10	0.07	0.40	0.037	0.13	6.6	9.9	0.76	683	3.77	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ56001		0.29	39.5	790	15.1	12.5	0.001	0.05	0.35	6.5	1.0	0.7	123.5	<0.01	0.02	2.7
ZZ56002		0.36	21.4	500	18.8	10.8	<0.001	0.04	0.63	2.1	0.5	0.4	9.7	<0.01	0.04	1.5
ZZ56003		0.70	15.5	360	17.6	16.6	<0.001	0.02	0.64	2.2	0.6	0.7	9.0	<0.01	0.01	2.6
ZZ56004		0.45	23.3	840	18.9	18.2	<0.001	0.04	0.89	2.6	0.7	0.7	13.6	<0.01	0.10	1.6
ZZ56005		0.47	18.6	1530	18.9	26.0	<0.001	0.10	0.66	2.0	1.0	1.0	15.6	<0.01	0.08	0.6
ZZ56006		0.30	33.4	710	27.2	12.2	<0.001	0.02	0.73	6.2	1.2	0.5	9.9	<0.01	0.07	3.1
ZZ56007		0.38	31.6	610	24.0	14.1	<0.001	0.02	0.63	5.8	0.3	0.6	13.6	<0.01	0.07	3.1
ZZ56008		0.70	19.1	690	14.7	14.3	<0.001	0.03	0.69	2.6	0.4	0.7	10.3	<0.01	0.02	1.2
ZZ56009		0.38	20.5	720	23.7	13.7	<0.001	0.03	0.45	3.5	0.3	0.8	14.0	<0.01	0.06	2.1
ZZ56010		0.40	23.4	1320	17.8	20.5	<0.001	0.13	0.34	6.2	0.9	0.6	49.6	<0.01	0.06	1.8
ZZ56011		0.52	26.5	950	22.8	21.0	<0.001	0.07	0.42	5.8	0.8	0.6	28.9	<0.01	0.06	2.4
ZZ56012		0.40	24.1	1020	23.2	20.0	<0.001	0.07	0.33	6.0	0.6	0.5	23.9	<0.01	0.05	2.5
ZZ56013		0.28	29.7	470	50.4	10.5	<0.001	0.03	0.38	5.5	0.5	0.5	17.2	<0.01	0.07	3.4
ZZ56014		0.52	23.7	380	17.9	15.6	<0.001	0.02	0.42	4.7	0.4	0.6	9.1	<0.01	0.08	2.8
ZZ56015		0.41	17.1	960	76.7	4.8	<0.001	0.06	0.39	3.2	0.9	0.3	57.1	0.01	0.04	1.7
ZZ56016		0.29	11.6	1480	66.7	6.3	<0.001	0.11	0.29	1.6	0.9	0.2	55.1	0.01	0.05	0.4
ZZ56017		0.45	19.4	980	50.8	7.3	<0.001	0.07	0.46	2.8	0.8	0.3	34.4	<0.01	0.04	0.9
ZZ56018		0.16	33.0	460	22.1	9.8	<0.001	0.04	0.73	8.4	1.0	0.5	36.1	0.01	0.10	4.2
ZZ56019		0.64	33.2	520	24.2	17.8	<0.001	0.04	0.65	5.6	0.6	0.6	17.4	<0.01	0.08	3.1
ZZ56020		0.20	30.1	530	18.0	11.0	<0.001	0.06	0.41	7.4	1.0	0.4	55.0	0.01	0.06	3.0
ZZ67736		0.44	49.5	1500	19.8	15.0	0.001	0.09	0.53	7.5	2.0	0.5	27.7	0.01	0.10	2.9
ZZ67737		0.24	52.3	1770	25.5	18.1	0.001	0.08	0.52	6.1	1.6	0.5	22.1	0.01	0.12	3.1
ZZ67738		0.15	57.1	1540	23.4	13.3	0.001	0.08	0.48	7.3	1.5	0.4	25.1	0.01	0.09	3.9
ZZ67739		0.33	36.8	890	34.8	8.8	<0.001	0.07	1.24	4.5	1.1	0.4	32.4	0.01	0.05	1.4
ZZ67740		0.46	26.6	450	17.1	10.7	<0.001	0.07	0.60	3.1	0.7	0.5	16.4	<0.01	0.06	1.7
ZZ67741		0.27	42.3	730	19.2	10.9	<0.001	0.06	0.95	4.5	1.8	0.4	37.1	<0.01	0.07	1.4
ZZ67742		0.37	43.1	930	30.3	11.6	<0.001	0.08	1.19	4.2	1.8	0.4	23.4	<0.01	0.08	1.1
ZZ67743		0.44	42.1	950	38.5	9.3	<0.001	0.05	1.22	4.2	1.2	0.4	48.1	<0.01	0.05	1.6
ZZ67744		0.34	33.6	900	60.3	7.6	<0.001	0.07	1.81	3.2	1.4	0.3	63.4	<0.01	0.04	1.1
ZZ67745		0.43	36.3	810	36.0	7.7	<0.001	0.04	1.67	4.1	1.0	0.3	63.7	<0.01	0.04	2.7
ZZ67746		0.72	40.9	930	28.3	11.2	<0.001	0.05	1.53	5.5	1.2	0.5	37.0	<0.01	0.05	2.0
ZZ67747		0.26	37.9	820	33.2	16.3	0.002	0.06	2.36	4.6	2.6	0.5	25.6	<0.01	0.07	2.6
ZZ67748		0.20	47.9	780	27.2	19.2	0.002	0.05	2.18	4.8	3.3	0.4	31.9	<0.01	0.07	3.3
ZZ67749		0.12	72.8	1190	23.0	18.9	0.002	0.04	4.21	5.7	4.3	0.3	29.1	0.01	0.07	5.0
ZZ67750		0.24	26.3	380	18.0	16.4	0.001	0.03	1.92	2.3	1.5	0.5	10.0	<0.01	0.07	1.4
ZZ67751		0.12	29.7	390	14.8	15.8	0.002	0.05	2.23	2.5	2.0	0.4	15.8	<0.01	0.08	1.3
ZZ67752		0.11	53.3	810	23.1	18.7	0.002	0.08	3.19	3.5	3.1	0.4	38.3	<0.01	0.07	3.0
ZZ67753		0.23	31.7	740	23.4	21.6	0.002	0.05	1.94	3.8	2.1	0.5	18.3	<0.01	0.08	2.1
ZZ67754		0.19	40.0	730	24.3	17.3	0.003	0.08	1.73	4.3	2.4	0.4	25.7	<0.01	0.07	2.6
ZZ67755		0.23	46.3	750	31.2	14.0	0.002	0.07	1.93	5.1	1.8	0.4	30.7	<0.01	0.06	3.1

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56001		<0.005	0.22	0.52	21	0.06	14.70	99	3.9
ZZ56002		0.008	0.13	0.39	35	0.10	3.13	82	0.6
ZZ56003		0.012	0.21	0.57	50	0.19	2.61	60	0.8
ZZ56004		0.007	0.19	0.71	43	0.14	6.46	88	1.7
ZZ56005		0.006	0.22	1.03	48	0.25	12.40	73	0.6
ZZ56006		0.006	0.68	0.91	46	0.15	9.16	117	1.5
ZZ56007		0.009	0.33	0.83	56	0.20	8.46	98	0.8
ZZ56008		0.014	0.24	0.78	59	0.25	3.92	85	<0.5
ZZ56009		0.007	0.34	0.67	41	0.16	5.93	85	0.5
ZZ56010		<0.005	0.39	1.29	34	0.11	16.60	110	2.7
ZZ56011		0.008	0.34	1.65	40	0.12	13.75	116	2.4
ZZ56012		0.007	0.37	1.83	42	0.11	10.35	118	1.9
ZZ56013		0.006	0.92	0.78	50	0.12	5.63	88	1.0
ZZ56014		0.010	0.29	0.55	66	0.11	3.83	65	0.7
ZZ56015		0.011	7.62	1.63	19	0.23	13.00	425	1.1
ZZ56016		0.010	5.49	3.40	19	0.46	14.55	240	0.7
ZZ56017		0.018	2.10	2.26	31	0.25	12.00	209	0.9
ZZ56018		<0.005	0.43	1.54	22	0.34	27.5	76	2.3
ZZ56019		0.009	0.16	1.17	55	0.11	7.06	82	1.6
ZZ56020		<0.005	0.25	3.31	39	0.08	16.75	76	2.4
ZZ67736		0.005	0.20	2.65	54	0.12	55.4	163	1.8
ZZ67737		<0.005	0.19	1.93	48	0.07	35.7	219	1.0
ZZ67738		<0.005	0.19	1.97	39	0.05	35.9	172	1.5
ZZ67739		0.007	0.61	1.61	60	0.25	14.35	241	1.1
ZZ67740		0.007	0.21	1.29	51	0.13	4.06	134	1.1
ZZ67741		<0.005	0.19	1.46	48	0.14	20.6	172	1.3
ZZ67742		0.006	0.42	2.79	59	0.17	17.80	202	1.4
ZZ67743		0.011	0.42	1.76	53	0.24	13.85	258	1.0
ZZ67744		0.007	0.38	2.01	54	0.27	12.80	356	1.1
ZZ67745		0.015	0.38	1.50	52	0.20	11.85	241	1.0
ZZ67746		0.023	0.29	1.27	58	0.21	16.90	222	1.1
ZZ67747		<0.005	0.41	1.94	60	0.20	15.20	257	2.0
ZZ67748		<0.005	0.61	1.91	45	0.08	18.45	271	1.2
ZZ67749		<0.005	0.79	2.46	48	0.06	22.3	361	0.8
ZZ67750		0.005	0.42	0.66	58	0.09	3.36	175	<0.5
ZZ67751		<0.005	0.34	0.52	47	0.09	3.63	197	<0.5
ZZ67752		<0.005	0.79	1.33	36	0.09	9.42	298	<0.5
ZZ67753		<0.005	0.55	1.25	57	0.07	14.05	209	<0.5
ZZ67754		<0.005	0.44	1.41	50	0.10	16.40	275	1.3
ZZ67755		<0.005	0.41	1.26	56	0.10	13.10	317	1.8



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67756		0.26	0.002	0.50	1.13	163.5	<0.2	<10	400	0.93	0.23	1.19	2.27	17.45	10.3	22
ZZ67757		0.33	0.004	0.87	0.89	317	<0.2	<10	240	0.86	0.18	3.66	4.20	21.4	12.0	21
ZZ67758		0.33	0.001	0.64	0.77	56.5	<0.2	<10	190	0.87	0.20	4.32	3.07	27.4	12.2	15
ZZ67759		0.24	<0.001	0.86	0.76	126.0	<0.2	<10	190	0.93	0.20	3.57	5.11	27.9	11.8	14
ZZ67760		0.26	<0.001	1.37	0.67	83.6	<0.2	<10	170	0.93	0.18	1.93	4.23	27.6	11.7	14
ZZ67761		0.31	0.001	1.42	1.68	335	<0.2	<10	690	1.74	0.18	1.41	15.90	29.6	5.6	53
ZZ67762		0.23	0.001	1.11	0.85	283	<0.2	<10	470	0.95	0.17	1.34	14.00	29.7	9.2	27
ZZ67763		0.24	0.001	0.50	1.06	82.4	<0.2	<10	390	0.75	0.22	1.50	3.42	13.55	8.4	20
ZZ67764		0.29	0.001	0.75	1.14	35.3	<0.2	<10	290	0.95	0.26	2.31	4.01	24.2	11.8	36
ZZ67765		0.41	0.001	0.79	0.99	46.0	<0.2	<10	330	1.03	0.25	3.77	4.71	19.50	10.9	31
ZZ67766		0.34	0.001	1.69	0.84	45.5	<0.2	10	270	1.13	0.24	3.92	13.40	27.4	9.0	57
ZZ67767		0.31	0.001	0.63	1.43	41.0	<0.2	<10	360	1.09	0.26	1.23	1.66	25.3	12.3	31
ZZ67768		0.30	0.001	0.24	1.37	39.2	<0.2	<10	320	1.01	0.29	1.19	1.20	15.00	13.4	22
ZZ67769		0.27	<0.001	0.42	1.27	33.3	<0.2	<10	250	1.07	0.28	0.87	0.80	25.4	12.4	18
ZZ67770		0.32	<0.001	0.36	0.64	29.8	<0.2	<10	190	0.83	0.31	0.30	2.08	15.25	14.8	11
ZZ67771		0.28	0.001	0.21	1.38	44.0	<0.2	<10	220	1.26	0.37	0.48	0.53	29.5	18.0	23
ZZ67772		0.41	0.001	0.20	1.10	19.9	<0.2	<10	200	1.36	0.39	1.12	0.39	22.1	13.6	19
ZZ67773		0.26	<0.001	0.44	0.95	36.9	<0.2	<10	210	1.21	0.28	1.44	3.27	26.2	13.9	19
ZZ67774		0.27	<0.001	0.24	1.45	27.4	<0.2	<10	590	1.03	0.31	1.14	0.54	24.4	12.9	23
ZZ67775		0.34	<0.001	0.20	1.43	51.6	<0.2	<10	440	1.21	0.35	0.34	0.48	26.9	15.9	24
ZZ67776		0.36	<0.001	0.33	1.23	42.3	<0.2	<10	180	1.24	0.34	0.54	0.89	24.6	13.1	21
ZZ67777		0.35	0.001	0.31	0.87	76.8	<0.2	<10	140	0.81	0.25	5.59	1.37	22.6	13.6	16
ZZ67778		0.39	0.002	0.36	1.25	86.5	<0.2	<10	270	1.12	0.29	4.90	1.16	21.6	15.8	19
ZZ67779		0.28	<0.001	0.58	0.78	143.0	<0.2	<10	330	0.80	0.24	6.11	1.74	21.5	12.8	15
ZZ67780		0.27	<0.001	0.53	1.47	85.8	<0.2	<10	430	1.09	0.30	1.42	1.27	21.4	14.8	23
ZZ67781		0.31	0.001	0.24	1.36	59.1	<0.2	<10	300	1.26	0.37	0.28	0.67	32.1	15.1	24
ZZ67782		0.37	0.001	0.19	1.42	40.0	<0.2	<10	470	1.25	0.36	1.07	0.52	27.6	12.0	23
ZZ67783		0.29	0.001	0.24	1.10	27.1	<0.2	<10	210	1.05	0.28	1.97	1.21	21.0	12.4	18
ZZ67784		0.26	0.003	0.22	1.09	22.7	<0.2	<10	230	1.09	0.25	2.21	1.03	15.90	9.5	16
ZZ67785		0.25	0.003	0.64	1.39	462	<0.2	<10	590	1.13	0.27	2.94	5.70	23.8	10.9	25
ZZ67786		0.27	0.013	1.07	1.04	431	<0.2	<10	410	1.08	0.21	3.61	4.42	13.95	7.4	23
ZZ67787		0.29	0.006	0.38	1.35	306	<0.2	<10	320	1.18	0.19	5.91	2.67	18.05	9.5	22
ZZ67788		0.23	<0.001	0.31	1.77	111.5	<0.2	<10	270	1.09	0.29	1.19	2.03	28.5	9.5	30
ZZ67789		0.33	0.016	0.32	1.61	311	<0.2	<10	210	1.19	0.31	1.17	2.52	30.5	11.3	29
ZZ67790		0.34	0.004	0.42	1.99	226	<0.2	<10	250	1.29	0.29	1.07	1.16	32.3	11.4	31
ZZ67791		0.28	0.037	0.28	1.79	122.5	<0.2	<10	170	0.91	0.31	1.45	1.83	36.2	10.7	29
ZZ67792		0.32	0.242	0.58	1.71	205	0.2	<10	220	1.06	0.27	1.13	3.36	37.0	12.0	30
ZZ67793		0.29	0.003	0.38	1.90	393	<0.2	<10	250	1.37	0.31	1.27	3.40	32.9	11.9	31
ZZ67794		0.30	0.003	0.50	1.32	551	<0.2	<10	200	1.42	0.24	3.79	5.97	26.1	12.2	24
ZZ67795		0.29	0.003	0.46	1.40	265	<0.2	<10	190	1.04	0.25	1.52	2.81	28.2	10.0	26



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ67756		1.22	43.1	2.92	3.31	0.10	0.06	0.50	0.033	0.09	9.6	14.5	0.41	336	4.69	0.01
ZZ67757		1.38	32.5	2.63	2.68	0.11	0.06	0.91	0.035	0.12	14.5	7.5	0.33	435	17.15	0.01
ZZ67758		1.23	25.6	2.73	2.12	0.11	0.06	0.15	0.034	0.13	16.2	6.9	1.57	257	10.55	0.01
ZZ67759		1.23	33.3	2.64	2.12	0.12	0.06	0.21	0.032	0.13	17.6	7.2	0.91	278	7.66	0.01
ZZ67760		2.45	43.4	2.40	1.80	0.12	0.07	0.22	0.037	0.13	16.9	5.5	0.36	148	9.04	0.01
ZZ67761		1.70	199.5	2.08	3.49	0.10	0.09	0.27	0.079	0.07	19.5	7.5	0.16	79	8.94	0.01
ZZ67762		1.03	91.4	2.17	3.01	0.09	0.06	0.22	0.036	0.06	21.2	6.0	0.13	286	10.15	0.01
ZZ67763		0.96	43.6	2.54	3.46	<0.05	0.05	0.23	0.030	0.06	7.2	14.8	0.36	317	6.74	0.01
ZZ67764		0.60	64.6	3.01	3.83	0.06	0.06	0.27	0.028	0.09	15.4	16.1	0.76	463	7.97	0.01
ZZ67765		0.92	73.5	2.95	3.33	0.06	0.05	0.33	0.030	0.11	10.8	14.0	1.24	524	11.40	0.01
ZZ67766		0.91	126.0	2.37	3.51	0.09	0.07	0.40	0.024	0.11	18.3	11.2	1.63	340	23.8	0.02
ZZ67767		0.85	58.6	3.55	4.52	0.06	0.10	0.33	0.036	0.10	19.3	20.1	0.46	469	7.41	0.01
ZZ67768		0.85	51.6	3.59	4.33	<0.05	0.10	0.18	0.034	0.09	7.3	20.0	0.47	558	9.51	0.01
ZZ67769		1.00	39.0	3.96	3.81	0.06	0.07	0.16	0.043	0.10	10.6	15.1	0.35	587	6.76	0.01
ZZ67770		1.13	47.1	3.24	2.13	<0.05	0.21	0.20	0.032	0.15	6.3	7.7	0.25	295	23.6	<0.01
ZZ67771		1.16	45.0	4.28	4.81	<0.05	0.07	0.22	0.033	0.12	11.1	21.4	0.48	837	1.90	0.01
ZZ67772		1.37	46.9	3.42	4.23	<0.05	0.08	0.17	0.031	0.14	10.4	17.4	0.76	409	1.32	0.01
ZZ67773		1.30	46.6	3.03	3.60	0.05	0.06	0.20	0.038	0.13	12.6	14.1	0.40	488	9.14	0.01
ZZ67774		0.80	34.0	3.19	4.90	<0.05	0.04	0.32	0.041	0.08	10.9	18.2	0.44	958	1.19	0.01
ZZ67775		1.15	36.9	4.04	4.99	<0.05	0.08	0.23	0.042	0.09	9.5	25.5	0.46	713	1.75	0.01
ZZ67776		0.94	32.7	3.89	4.44	0.05	0.12	0.36	0.038	0.13	11.9	19.3	0.41	498	2.07	<0.01
ZZ67777		1.50	37.7	3.25	3.12	0.05	0.05	0.82	0.026	0.10	10.3	13.4	3.41	851	1.34	0.01
ZZ67778		1.15	46.7	4.32	4.01	<0.05	0.08	1.06	0.034	0.12	11.3	17.7	3.18	1520	0.75	0.01
ZZ67779		0.92	29.7	3.29	2.68	<0.05	0.06	1.10	0.025	0.10	9.8	9.7	3.78	1140	1.31	0.02
ZZ67780		1.10	49.4	4.21	4.58	0.06	0.08	0.78	0.038	0.11	10.5	19.5	0.77	1020	0.84	0.01
ZZ67781		1.23	41.7	4.33	4.83	<0.05	0.07	0.29	0.038	0.10	14.0	20.2	0.49	917	0.94	0.01
ZZ67782		1.17	31.8	3.87	5.23	<0.05	0.06	0.19	0.030	0.11	11.6	20.9	0.68	922	0.94	0.01
ZZ67783		0.86	38.7	3.16	3.95	<0.05	0.11	0.15	0.035	0.12	11.5	17.5	0.71	622	1.96	0.01
ZZ67784		0.86	37.6	2.84	3.60	0.05	0.09	0.14	0.034	0.10	10.1	15.8	0.65	376	1.72	0.01
ZZ67785		1.69	35.8	2.84	4.42	<0.05	0.03	0.50	0.035	0.08	13.5	9.8	0.54	728	8.22	0.01
ZZ67786		1.48	58.8	2.75	3.43	0.05	0.04	2.76	0.040	0.10	10.7	7.9	0.68	204	9.44	0.01
ZZ67787		1.66	25.7	2.66	3.86	<0.05	0.06	0.27	0.031	0.11	10.2	11.8	0.32	318	3.45	0.01
ZZ67788		1.92	17.7	3.07	5.83	<0.05	0.05	0.08	0.045	0.08	13.5	10.4	0.34	570	3.00	0.01
ZZ67789		1.76	25.2	3.29	4.64	0.05	0.03	0.60	0.040	0.10	14.5	10.9	0.34	480	10.10	0.01
ZZ67790		2.30	23.0	3.39	6.04	<0.05	0.04	0.39	0.040	0.09	14.5	14.8	0.47	417	4.68	0.01
ZZ67791		1.55	17.1	2.89	6.32	0.05	<0.02	0.31	0.034	0.06	22.1	12.5	0.35	552	2.10	0.01
ZZ67792		1.72	19.9	3.10	5.17	0.05	0.02	1.73	0.033	0.07	20.6	12.3	0.35	843	2.15	0.01
ZZ67793		2.91	25.0	3.48	6.27	<0.05	0.04	0.34	0.038	0.09	13.9	14.0	0.39	542	3.57	0.01
ZZ67794		1.44	26.6	2.88	3.99	<0.05	0.02	0.49	0.027	0.08	12.2	10.6	0.91	734	4.66	0.01
ZZ67795		1.38	24.5	2.86	4.16	0.05	0.02	0.66	0.028	0.07	14.9	10.8	0.35	379	4.25	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ67756	0.31	45.6	700	27.6	9.0	0.003	0.08	2.66	3.9	2.3	0.4	33.5	<0.01	0.07	1.3	
ZZ67757	0.37	79.1	1000	16.0	10.3	0.001	0.10	4.57	3.8	3.0	0.4	62.6	0.01	0.06	1.1	
ZZ67758	0.23	56.8	500	18.7	8.9	0.001	0.06	3.77	4.4	1.9	0.3	66.8	<0.01	0.04	2.5	
ZZ67759	0.19	64.5	720	19.5	9.0	0.001	0.09	3.36	4.1	2.5	0.3	55.4	0.01	0.04	1.7	
ZZ67760	0.15	71.9	730	14.8	10.9	0.002	0.07	3.42	4.9	2.9	0.3	41.9	0.01	0.04	2.6	
ZZ67761	0.29	119.0	2710	14.1	7.4	0.007	0.09	6.67	8.3	8.0	0.5	422	<0.01	0.11	3.2	
ZZ67762	0.14	87.8	1410	12.2	6.0	0.006	0.08	5.50	3.6	4.9	0.4	192.5	<0.01	0.07	1.6	
ZZ67763	0.29	52.0	820	14.8	7.3	0.006	0.09	3.85	3.0	4.6	0.4	46.1	<0.01	0.05	0.9	
ZZ67764	0.31	85.0	1450	20.5	6.7	0.007	0.06	2.79	5.0	4.3	0.5	57.3	<0.01	0.08	2.2	
ZZ67765	0.23	84.8	1110	23.5	7.1	0.004	0.07	4.26	4.7	3.4	0.5	79.8	<0.01	0.09	1.9	
ZZ67766	0.18	162.0	1890	19.4	8.5	0.004	0.06	8.96	5.5	6.3	0.6	81.6	<0.01	0.11	2.8	
ZZ67767	0.28	72.7	760	26.3	8.5	0.005	0.06	2.14	6.5	2.9	0.6	41.0	<0.01	0.05	2.4	
ZZ67768	0.36	47.3	430	23.4	9.0	<0.001	0.06	1.73	5.4	2.2	0.5	31.6	<0.01	0.05	2.6	
ZZ67769	0.35	31.7	1050	23.1	9.6	0.009	0.09	1.10	5.4	3.3	0.6	31.1	<0.01	0.05	2.5	
ZZ67770	0.18	51.9	340	20.7	9.5	0.002	0.03	10.20	6.1	2.6	0.4	14.0	<0.01	0.07	5.6	
ZZ67771	0.39	33.1	410	40.6	10.3	0.001	0.03	0.92	6.2	1.1	0.6	26.5	<0.01	0.03	5.2	
ZZ67772	0.46	27.8	380	24.6	13.4	0.001	0.04	0.70	6.8	1.2	0.7	26.2	<0.01	0.03	5.2	
ZZ67773	0.36	53.5	760	23.8	10.9	0.005	0.07	3.27	4.8	2.8	0.6	42.4	<0.01	0.05	2.5	
ZZ67774	0.54	22.2	1140	25.7	9.7	<0.001	0.09	0.80	3.0	1.2	0.6	39.6	<0.01	0.06	1.0	
ZZ67775	0.40	32.4	370	35.4	9.7	0.001	0.03	0.85	5.3	1.0	0.5	17.6	<0.01	0.03	4.5	
ZZ67776	0.31	29.9	830	40.0	15.4	0.001	0.05	0.87	6.3	2.1	0.6	27.1	<0.01	0.07	3.2	
ZZ67777	0.39	26.1	760	66.4	7.2	<0.001	0.04	1.28	5.4	1.6	0.4	57.8	<0.01	0.04	4.0	
ZZ67778	0.19	27.7	690	76.2	7.3	<0.001	0.05	1.15	6.3	1.4	0.4	48.6	<0.01	0.06	3.0	
ZZ67779	0.29	23.4	690	124.0	5.9	0.001	0.05	1.83	4.7	1.1	0.4	43.8	<0.01	0.04	3.1	
ZZ67780	0.35	27.2	850	73.6	10.1	0.001	0.07	1.43	5.5	1.1	0.5	31.9	<0.01	0.08	1.7	
ZZ67781	0.48	29.0	360	49.2	11.6	<0.001	0.02	0.91	6.6	1.2	0.6	17.2	<0.01	0.07	4.6	
ZZ67782	0.54	22.3	700	46.8	12.6	<0.001	0.05	0.75	5.3	1.6	0.7	24.8	<0.01	0.04	2.5	
ZZ67783	0.30	29.0	980	28.0	11.0	0.001	0.10	0.90	4.6	1.8	0.4	43.5	<0.01	0.06	1.9	
ZZ67784	0.30	28.0	1050	21.9	11.7	0.001	0.13	0.88	3.6	1.4	0.5	49.0	<0.01	0.01	1.5	
ZZ67785	0.60	61.2	1020	44.5	10.1	0.001	0.08	2.37	2.6	2.8	0.7	31.0	<0.01	0.06	0.6	
ZZ67786	0.29	70.6	800	71.7	9.3	0.001	0.10	4.69	3.1	4.2	0.5	59.8	<0.01	0.09	0.8	
ZZ67787	0.42	91.2	860	40.3	9.7	0.002	0.07	1.93	2.7	2.3	0.5	40.5	<0.01	0.07	1.0	
ZZ67788	0.87	30.1	560	23.2	13.2	<0.001	0.07	0.93	3.5	1.5	0.7	19.2	<0.01	0.03	1.2	
ZZ67789	0.54	49.5	900	34.8	15.3	0.001	0.08	1.99	2.6	2.3	0.6	22.6	<0.01	0.05	0.8	
ZZ67790	0.92	43.4	510	30.3	11.4	0.001	0.05	1.47	4.0	1.7	0.7	23.9	<0.01	0.04	2.1	
ZZ67791	0.91	26.2	810	31.2	9.4	0.002	0.08	1.09	2.5	2.0	0.7	23.9	<0.01	0.04	0.7	
ZZ67792	0.65	36.1	880	55.8	9.8	0.001	0.08	1.56	2.5	2.1	0.6	24.7	<0.01	0.04	0.7	
ZZ67793	0.84	50.1	960	43.2	14.7	0.001	0.07	1.84	3.1	2.7	0.7	23.6	<0.01	0.06	1.1	
ZZ67794	0.47	52.6	1160	39.5	9.4	0.002	0.12	2.25	2.2	3.0	0.5	41.8	<0.01	0.05	0.4	
ZZ67795	0.58	40.4	1080	35.2	11.0	<0.001	0.09	1.85	2.3	2.9	0.5	28.1	<0.01	0.07	0.6	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67756		0.006	0.44	1.65	104	0.20	16.55	281	1.2
ZZ67757		0.006	0.89	3.43	151	0.23	27.8	675	1.5
ZZ67758		<0.005	0.74	2.05	89	0.09	19.75	361	1.2
ZZ67759		<0.005	0.53	1.81	95	0.12	25.4	585	1.0
ZZ67760		<0.005	0.40	1.55	92	0.09	27.5	554	1.5
ZZ67761		0.005	0.45	14.85	444	0.43	38.0	982	2.8
ZZ67762		<0.005	0.39	7.53	240	0.28	38.4	992	1.7
ZZ67763		0.006	0.41	3.34	169	0.10	12.60	318	1.8
ZZ67764		0.007	0.26	3.00	186	0.12	22.6	372	1.9
ZZ67765		0.005	0.43	3.28	213	0.13	20.4	439	2.0
ZZ67766		0.005	0.36	6.07	487	0.20	38.0	767	2.8
ZZ67767		0.005	0.40	2.87	151	0.08	24.6	354	2.8
ZZ67768		0.006	0.36	3.86	84	0.09	10.60	225	3.0
ZZ67769		0.005	0.29	3.32	37	0.05	10.10	167	2.0
ZZ67770		<0.005	0.40	2.22	25	<0.05	11.75	236	8.8
ZZ67771		0.007	0.32	0.82	37	0.08	9.26	156	3.0
ZZ67772		0.006	0.19	0.82	27	0.06	11.45	136	3.0
ZZ67773		0.005	0.34	2.94	101	0.09	17.00	324	2.5
ZZ67774		0.010	0.19	2.18	37	0.17	9.99	125	1.4
ZZ67775		0.006	0.30	0.96	41	0.09	7.56	158	2.5
ZZ67776		0.005	0.46	1.50	41	0.06	13.70	355	3.1
ZZ67777		0.011	0.87	1.32	27	0.12	10.45	405	2.8
ZZ67778		<0.005	1.58	1.62	29	0.09	13.20	389	2.5
ZZ67779		0.008	1.34	1.32	25	0.13	10.30	387	2.1
ZZ67780		0.006	0.72	1.46	35	0.10	11.25	271	2.2
ZZ67781		0.010	0.37	1.07	35	0.10	10.20	224	2.3
ZZ67782		0.009	0.38	1.21	36	0.18	10.65	167	1.7
ZZ67783		0.005	0.26	1.26	38	0.06	14.05	185	2.8
ZZ67784		<0.005	0.25	1.21	35	0.07	12.70	170	2.6
ZZ67785		0.014	0.44	2.53	86	0.27	19.30	384	0.8
ZZ67786		<0.005	3.15	2.40	156	0.33	21.8	484	1.5
ZZ67787		0.009	0.55	1.19	71	0.40	14.85	598	1.7
ZZ67788		0.021	0.31	1.38	70	0.26	11.70	213	1.0
ZZ67789		0.018	1.04	2.06	73	0.42	14.60	275	0.8
ZZ67790		0.018	0.57	1.75	71	0.41	9.54	176	1.6
ZZ67791		0.024	0.26	3.92	72	0.32	21.4	147	0.6
ZZ67792		0.021	0.56	2.97	78	0.38	20.4	207	0.5
ZZ67793		0.015	0.53	2.69	83	0.38	11.40	339	1.1
ZZ67794		0.010	0.43	1.59	77	0.54	18.20	415	0.6
ZZ67795		0.015	0.47	2.80	68	0.34	14.85	230	0.7



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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67796		0.30	0.004	0.50	1.23	272	<0.2	<10	190	0.94	0.22	1.63	3.91	29.0	11.4	25
ZZ67797		0.32	0.014	1.55	0.96	452	<0.2	<10	330	1.59	0.22	0.84	1.82	17.15	9.1	17
ZZ67798		0.32	0.003	0.53	0.71	434	<0.2	<10	110	0.33	0.28	0.02	0.49	10.95	5.8	15
ZZ67799		0.34	0.001	0.51	0.36	189.5	<0.2	<10	130	0.15	0.25	0.02	0.21	8.10	1.7	10
ZZ67800		0.35	0.011	2.89	0.54	231	<0.2	<10	480	0.73	0.21	0.43	1.43	14.55	9.2	12
ZZ67801		0.36	0.012	2.00	0.69	312	<0.2	<10	410	0.75	0.28	0.22	1.09	16.20	4.1	13
ZZ67802		0.32	0.006	1.33	0.59	256	<0.2	<10	390	0.93	0.22	0.46	1.39	12.85	7.4	11
ZZ67803		0.32	0.007	1.51	0.65	259	<0.2	<10	430	0.88	0.21	0.56	1.96	12.35	5.8	11
ZZ67804		0.25	0.012	1.55	0.85	373	<0.2	<10	910	0.93	0.19	1.38	3.22	14.10	6.8	24
ZZ67805		0.26	0.003	0.83	1.10	296	<0.2	<10	400	1.07	0.20	2.17	6.57	23.5	10.1	30
ZZ67806		0.28	0.003	0.63	0.84	380	<0.2	<10	330	0.95	0.15	5.55	5.97	22.4	9.0	20
ZZ67807		0.29	0.001	0.87	0.66	459	<0.2	<10	340	0.92	0.15	2.67	5.88	31.3	9.6	15
ZZ67808		0.30	0.001	0.71	1.10	338	<0.2	<10	290	1.14	0.18	1.86	6.72	31.2	9.8	20
ZZ67809		0.31	0.002	0.66	1.41	491	<0.2	<10	280	1.27	0.21	1.05	9.61	35.6	13.9	25
ZZ67810		0.31	0.002	0.75	1.72	225	<0.2	<10	200	1.27	0.23	0.20	6.15	29.5	16.2	26
ZZ67811		0.33	0.003	0.64	1.48	103.5	<0.2	<10	490	1.25	0.21	1.07	6.00	35.2	11.8	25
ZZ67812		0.31	0.007	0.41	1.44	70.7	<0.2	<10	420	0.94	0.23	0.60	6.89	22.6	11.8	27
ZZ67813		0.26	0.003	0.26	1.35	51.7	<0.2	<10	350	0.93	0.24	0.44	0.86	20.4	14.0	25
ZZ67814		0.33	0.004	1.37	1.09	63.6	<0.2	<10	220	1.02	0.21	2.15	4.21	32.5	10.6	61
ZZ67815		0.28	0.004	2.37	0.88	30.8	<0.2	10	230	1.10	0.19	3.94	7.56	37.4	7.3	74
ZZ67816		0.22	0.002	0.35	1.46	31.4	<0.2	<10	370	1.09	0.25	0.89	1.01	24.7	13.2	26
ZZ67817		0.27	0.004	2.80	0.77	35.2	<0.2	10	300	0.92	0.17	4.12	8.01	27.4	6.8	78
ZZ67818		0.35	0.003	1.57	1.12	33.9	<0.2	10	320	1.20	0.19	2.53	6.48	25.8	9.7	53
ZZ67819		0.32	0.001	0.15	0.74	7.6	<0.2	<10	160	1.13	0.21	1.51	0.24	21.4	13.0	13
ZZ67820		0.34	0.003	0.13	1.57	35.4	<0.2	<10	200	1.32	0.30	0.32	0.24	21.2	15.6	25
ZZ67821		0.31	<0.001	0.02	1.10	12.5	<0.2	<10	50	0.40	0.29	0.02	0.08	17.45	7.6	18
ZZ67822		0.32	0.002	0.09	1.49	13.5	<0.2	<10	320	1.12	0.29	0.60	0.15	18.70	11.4	26
ZZ67823		0.35	0.002	0.06	1.59	21.8	<0.2	<10	200	1.02	0.26	0.22	0.18	19.80	12.6	24
ZZ67824		0.24	0.004	0.21	1.44	24.8	<0.2	<10	320	1.57	0.29	0.75	0.25	20.8	13.6	25
ZZ67825		0.36	0.002	0.05	1.98	66.4	<0.2	<10	140	1.52	0.35	0.03	0.22	31.2	22.1	26
ZZ67826		0.34	0.001	0.03	2.06	26.0	<0.2	<10	150	1.06	0.30	0.08	0.24	29.5	22.6	28
ZZ67827		0.33	0.001	0.15	1.70	79.8	<0.2	<10	260	1.46	0.31	1.27	0.42	24.8	16.4	24
ZZ67828		0.33	<0.001	0.02	1.68	12.6	<0.2	<10	170	0.64	0.30	0.12	0.11	21.2	8.1	26
ZZ67829		0.28	<0.001	0.04	1.91	16.7	<0.2	<10	140	0.88	0.33	0.06	0.27	18.30	13.7	26
ZZ67830		0.27	0.003	0.59	1.61	43.6	<0.2	<10	240	1.10	0.25	1.92	1.87	23.3	15.5	33
ZZ67831		0.27	0.003	0.38	1.43	20.0	<0.2	<10	380	1.20	0.24	1.15	0.63	20.3	11.9	22
ZZ67832		0.26	<0.001	2.39	0.46	19.2	<0.2	<10	140	0.87	0.17	1.51	12.70	26.8	10.1	10
ZZ67833		0.27	0.002	0.49	1.17	30.6	<0.2	<10	390	1.17	0.22	1.42	1.32	25.2	10.7	16
ZZ67834		0.32	0.002	0.60	1.03	34.3	<0.2	<10	280	1.17	0.23	0.90	2.54	30.5	11.7	16
ZZ67835		0.31	0.002	0.23	1.76	90.2	<0.2	<10	400	0.76	0.26	0.34	0.36	27.5	11.9	27



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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	
ZZ67796		1.14	25.9	2.69	3.76	0.05	0.02	0.64	0.027	0.07	16.8	10.4	0.38	541	3.56	0.01
ZZ67797		2.84	45.2	2.94	2.86	0.05	0.05	1.21	0.032	0.09	8.3	7.4	0.17	341	4.56	0.01
ZZ67798		2.97	22.3	2.85	4.17	<0.05	<0.02	0.19	0.026	0.09	5.4	5.5	0.09	261	5.59	<0.01
ZZ67799		3.21	18.0	1.12	2.31	<0.05	<0.02	0.17	0.023	0.13	3.4	1.1	0.02	23	4.19	<0.01
ZZ67800		10.70	67.2	1.51	2.15	0.06	0.02	1.05	0.034	0.11	5.8	3.3	0.10	446	4.12	0.01
ZZ67801		4.43	54.2	1.78	2.56	0.07	0.04	1.11	0.037	0.09	6.2	3.4	0.09	106	2.56	<0.01
ZZ67802		2.82	46.8	2.44	2.01	0.05	0.03	0.80	0.035	0.09	6.0	4.2	0.12	286	4.05	0.01
ZZ67803		2.95	47.2	2.18	2.07	0.05	0.07	0.97	0.029	0.09	5.6	5.2	0.13	174	2.96	0.01
ZZ67804		1.65	43.3	2.39	2.86	<0.05	0.05	1.05	0.027	0.08	8.0	7.5	0.21	296	5.44	0.02
ZZ67805		1.44	54.8	2.60	3.50	0.07	0.06	0.88	0.028	0.10	17.4	12.5	0.44	381	7.75	0.01
ZZ67806		1.87	36.7	2.36	2.50	0.05	0.05	0.82	0.021	0.10	16.1	8.7	1.47	339	8.34	0.01
ZZ67807		2.99	30.9	2.48	1.98	0.08	0.04	0.76	0.028	0.11	21.0	6.4	0.40	251	8.78	0.01
ZZ67808		1.37	24.9	2.92	3.23	0.07	0.04	0.44	0.034	0.08	21.3	10.6	0.22	338	8.71	0.01
ZZ67809		1.33	29.8	3.83	3.37	0.07	0.08	0.50	0.040	0.08	20.4	15.3	0.23	751	10.30	0.01
ZZ67810		1.60	38.4	4.06	4.26	0.06	0.07	0.28	0.037	0.08	13.5	22.5	0.34	524	10.55	<0.01
ZZ67811		1.49	27.7	3.28	4.16	0.07	0.06	0.32	0.031	0.08	21.9	14.4	0.36	1090	3.44	0.01
ZZ67812		2.18	34.0	3.29	4.59	0.05	0.06	0.21	0.028	0.08	10.2	15.5	0.37	557	7.86	0.01
ZZ67813		1.04	43.2	3.95	4.09	<0.05	0.06	0.08	0.030	0.06	8.3	20.4	0.43	564	4.58	0.01
ZZ67814		1.41	51.7	2.85	3.67	0.08	0.05	0.32	0.028	0.08	28.0	14.4	0.68	350	9.34	0.01
ZZ67815		1.20	94.5	2.12	3.95	0.12	0.04	0.46	0.027	0.11	37.5	9.3	1.03	275	15.45	0.01
ZZ67816		1.04	50.0	3.72	4.40	0.05	0.06	0.18	0.035	0.09	12.8	22.5	0.46	443	5.91	0.01
ZZ67817		0.90	83.9	2.04	3.34	0.11	0.04	0.57	0.026	0.10	27.6	10.3	1.14	182	17.80	0.01
ZZ67818		1.13	87.1	2.51	4.27	0.09	0.05	0.37	0.026	0.11	23.3	15.4	0.81	256	15.05	0.01
ZZ67819		3.39	23.3	3.23	2.11	0.07	0.04	0.07	0.034	0.17	8.5	10.2	0.28	313	1.57	0.01
ZZ67820		1.45	65.0	5.04	4.58	0.06	0.06	0.12	0.037	0.08	8.6	27.1	0.55	789	0.80	<0.01
ZZ67821		1.48	18.2	3.34	6.65	<0.05	<0.02	0.04	0.022	0.07	7.5	7.2	0.13	517	1.01	<0.01
ZZ67822		1.49	33.8	4.11	5.89	<0.05	0.03	0.08	0.032	0.09	8.3	17.8	0.36	913	0.76	0.01
ZZ67823		1.37	50.8	4.35	4.93	<0.05	0.08	0.05	0.033	0.07	8.1	30.8	0.54	465	0.69	<0.01
ZZ67824		2.21	46.2	4.28	4.85	0.06	0.08	0.11	0.038	0.10	8.8	24.7	0.41	828	0.62	<0.01
ZZ67825		2.13	66.5	4.99	5.03	0.05	0.04	0.29	0.042	0.10	11.8	28.1	0.51	927	0.75	<0.01
ZZ67826		1.57	52.9	5.45	5.16	<0.05	0.09	0.09	0.042	0.08	10.6	36.2	0.59	1320	0.71	<0.01
ZZ67827		1.74	48.2	5.16	4.70	0.05	0.05	0.33	0.036	0.09	9.0	26.3	0.96	1300	0.79	0.01
ZZ67828		1.94	16.7	3.07	6.67	<0.05	0.03	0.04	0.028	0.06	9.7	22.1	0.35	302	1.11	<0.01
ZZ67829		1.63	30.0	4.83	6.38	<0.05	0.04	0.06	0.033	0.08	6.5	28.0	0.37	586	1.07	<0.01
ZZ67830		1.25	57.7	4.20	4.81	0.06	0.06	0.29	0.031	0.10	11.0	23.6	1.25	1020	2.77	0.01
ZZ67831		0.95	48.7	3.15	4.55	0.06	0.08	0.18	0.034	0.09	10.5	22.1	0.39	381	3.70	0.01
ZZ67832		1.15	42.5	2.67	1.59	0.09	0.05	0.21	0.027	0.11	16.8	4.1	0.41	179	11.65	<0.01
ZZ67833		1.00	40.8	3.06	3.53	0.07	0.07	0.12	0.047	0.11	15.1	11.9	0.28	332	4.91	0.02
ZZ67834		1.82	39.0	3.34	3.03	0.07	0.08	0.12	0.049	0.14	16.3	12.6	0.30	383	5.80	0.02
ZZ67835		1.59	26.6	2.97	5.60	<0.05	0.05	0.08	0.035	0.06	13.0	16.0	0.40	379	3.52	0.02



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**CERTIFICATE OF ANALYSIS WH12155845**

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67796		0.56	44.2	1010	40.0	8.2	0.001	0.09	2.03	2.0	1.5	0.5	30.4	<0.01	0.04	0.6
ZZ67797		0.35	50.7	1030	40.3	9.3	0.001	0.06	2.81	3.7	3.1	0.4	30.6	<0.01	0.10	1.4
ZZ67798		0.49	28.1	600	69.1	11.9	<0.001	0.06	2.92	1.7	1.7	0.6	21.5	<0.01	0.11	1.5
ZZ67799		0.19	11.8	510	32.1	13.8	0.001	0.13	1.20	1.2	1.2	0.5	22.4	<0.01	0.07	1.0
ZZ67800		0.27	31.7	890	169.0	14.5	<0.001	0.06	2.83	4.6	3.2	0.4	37.5	<0.01	0.06	2.8
ZZ67801		0.28	16.2	950	57.2	14.2	0.001	0.04	2.47	4.2	4.7	0.5	34.5	<0.01	0.09	2.8
ZZ67802		0.24	25.4	770	129.5	10.9	0.002	0.03	3.04	4.1	2.5	0.4	28.3	<0.01	0.11	2.9
ZZ67803		0.26	27.9	830	75.5	11.6	0.003	0.05	2.26	3.7	2.8	0.4	29.1	<0.01	0.10	2.1
ZZ67804		0.30	48.9	1280	58.9	8.4	0.004	0.10	2.98	3.0	4.7	0.4	65.7	<0.01	0.07	0.9
ZZ67805		0.44	103.0	1170	32.5	9.0	0.001	0.07	3.54	3.7	3.6	0.5	40.3	<0.01	0.04	1.2
ZZ67806		0.30	96.6	1080	23.4	8.6	0.002	0.06	3.08	3.0	4.1	0.4	62.8	<0.01	0.05	0.9
ZZ67807		0.25	95.5	800	26.2	9.1	0.002	0.06	3.42	3.6	5.1	0.3	55.3	<0.01	0.05	1.1
ZZ67808		0.37	76.1	590	54.3	8.7	<0.001	0.05	2.86	3.9	3.5	0.4	45.0	<0.01	0.06	1.1
ZZ67809		0.36	90.2	1080	63.1	10.0	0.001	0.05	3.37	5.1	4.7	0.4	33.9	<0.01	0.03	2.3
ZZ67810		0.44	81.0	960	115.5	11.7	0.001	0.03	3.10	4.5	2.6	0.5	26.0	<0.01	0.09	3.5
ZZ67811		0.55	47.1	1470	54.1	12.7	0.001	0.06	1.75	3.7	1.9	0.4	27.8	<0.01	0.04	1.3
ZZ67812		0.55	84.0	980	26.3	15.8	<0.001	0.05	2.09	3.3	2.4	0.6	22.1	<0.01	0.06	1.1
ZZ67813		0.35	48.8	420	24.7	7.1	0.001	0.02	1.60	4.1	1.9	0.4	19.2	<0.01	0.06	2.6
ZZ67814		0.36	116.5	1720	18.3	8.4	0.001	0.05	2.74	4.8	4.7	0.5	58.8	<0.01	0.07	1.9
ZZ67815		0.33	147.5	2850	15.0	9.1	0.001	0.06	5.77	3.9	9.1	0.6	76.9	<0.01	0.13	1.4
ZZ67816		0.39	53.1	810	20.1	8.5	0.002	0.05	1.57	5.4	1.9	0.5	26.5	<0.01	0.05	1.6
ZZ67817		0.23	147.0	2050	11.2	8.5	0.007	0.09	6.38	3.8	8.7	0.5	99.0	<0.01	0.13	0.8
ZZ67818		0.29	129.0	1930	13.5	10.0	0.004	0.06	4.89	4.8	4.6	0.6	61.0	<0.01	0.08	1.2
ZZ67819		0.39	35.0	750	18.6	12.3	<0.001	0.04	0.41	4.3	0.6	0.5	38.6	<0.01	<0.01	3.5
ZZ67820		0.22	32.3	440	35.0	8.4	<0.001	0.02	0.44	8.1	0.8	0.5	15.6	<0.01	0.06	3.7
ZZ67821		0.83	11.2	390	16.9	15.2	0.001	0.01	0.41	2.1	0.3	0.8	4.8	<0.01	0.06	1.9
ZZ67822		0.54	22.5	840	21.5	14.8	<0.001	0.04	0.41	4.9	0.4	0.7	24.4	<0.01	0.05	1.5
ZZ67823		0.27	31.2	490	20.9	12.6	<0.001	0.02	0.42	5.9	0.4	0.4	14.7	<0.01	0.07	2.9
ZZ67824		0.36	28.2	700	29.1	14.8	<0.001	0.05	0.41	7.7	1.5	0.6	28.1	<0.01	0.07	1.7
ZZ67825		0.23	37.0	220	38.5	12.4	<0.001	0.01	0.56	6.4	0.8	0.5	13.5	<0.01	0.07	4.9
ZZ67826		0.38	37.8	480	29.3	8.9	0.001	0.01	0.57	4.9	0.6	0.4	10.3	<0.01	0.07	3.7
ZZ67827		0.28	32.3	570	57.8	12.6	<0.001	0.03	0.50	6.4	0.7	0.6	16.9	<0.01	0.07	3.0
ZZ67828		0.94	18.3	630	17.5	13.8	<0.001	0.02	0.43	2.7	<0.2	0.7	11.8	<0.01	0.04	1.5
ZZ67829		0.45	25.3	390	27.3	13.7	<0.001	0.02	0.38	3.8	0.6	0.7	7.8	<0.01	0.05	2.9
ZZ67830		0.28	61.0	930	36.1	10.9	<0.001	0.03	1.19	6.2	1.9	0.6	32.1	<0.01	0.08	3.1
ZZ67831		0.44	38.3	920	17.1	10.1	0.001	0.06	1.33	5.1	2.0	0.5	33.3	<0.01	0.07	1.4
ZZ67832		0.16	70.7	540	16.5	8.9	0.003	0.05	12.20	4.9	4.9	0.4	22.6	<0.01	0.06	1.6
ZZ67833		0.28	44.1	1100	17.2	10.7	0.002	0.08	1.81	4.0	1.3	0.5	41.2	<0.01	0.04	1.3
ZZ67834		0.23	45.8	1250	18.6	12.0	0.001	0.06	2.13	7.1	1.9	0.4	31.6	<0.01	0.05	2.9
ZZ67835		0.56	29.7	1080	18.2	12.6	0.001	0.03	1.11	4.0	1.0	0.6	18.8	<0.01	0.03	2.2

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67796		0.016	0.34	2.73	66	0.40	17.70	294	0.8
ZZ67797		0.006	0.53	2.17	70	0.41	17.05	299	1.3
ZZ67798		0.008	0.79	0.61	109	0.25	2.90	185	<0.5
ZZ67799		<0.005	0.51	0.38	48	0.27	1.68	85	<0.5
ZZ67800		<0.005	0.69	1.99	42	0.25	14.40	202	0.7
ZZ67801		<0.005	0.69	1.83	58	0.27	11.30	83	1.1
ZZ67802		<0.005	0.35	1.59	53	0.34	11.35	263	0.9
ZZ67803		<0.005	0.41	1.55	50	0.29	11.65	286	1.4
ZZ67804		0.005	0.68	2.88	89	0.20	17.65	356	1.4
ZZ67805		0.007	1.61	3.61	223	0.14	28.2	795	1.8
ZZ67806		0.005	2.48	2.76	146	0.15	23.7	887	1.3
ZZ67807		<0.005	3.81	1.98	108	0.14	26.6	1070	1.1
ZZ67808		<0.005	1.62	1.53	135	0.12	26.5	815	1.2
ZZ67809		0.005	1.27	2.96	175	0.17	29.1	860	1.6
ZZ67810		0.006	0.69	2.72	161	0.17	14.15	508	2.1
ZZ67811		0.012	0.33	3.20	102	0.16	26.0	318	1.4
ZZ67812		0.012	0.86	3.76	321	0.18	15.90	916	1.5
ZZ67813		0.007	0.22	1.50	156	0.10	6.88	190	1.8
ZZ67814		0.008	0.30	2.56	176	0.24	31.6	561	1.5
ZZ67815		0.010	0.19	5.19	359	0.26	55.7	620	1.1
ZZ67816		0.007	0.25	2.55	112	0.08	17.95	169	1.6
ZZ67817		0.005	0.35	4.42	410	0.23	42.5	839	1.2
ZZ67818		0.006	0.32	3.83	361	0.17	37.4	762	1.7
ZZ67819		<0.005	0.21	0.73	20	<0.05	7.79	117	1.7
ZZ67820		<0.005	0.24	1.30	35	<0.05	10.45	122	1.7
ZZ67821		0.016	0.13	0.42	48	0.14	2.51	55	<0.5
ZZ67822		0.010	0.15	0.96	38	0.11	12.40	86	0.9
ZZ67823		<0.005	0.15	0.88	33	0.05	7.44	125	2.0
ZZ67824		0.007	0.21	3.01	28	<0.05	17.60	107	1.5
ZZ67825		<0.005	0.33	0.83	38	0.07	6.21	113	1.8
ZZ67826		0.006	0.18	0.64	44	0.05	5.57	109	2.2
ZZ67827		<0.005	0.43	0.98	34	0.09	11.00	198	1.4
ZZ67828		0.016	0.19	0.71	49	0.24	3.90	63	0.6
ZZ67829		<0.005	0.16	0.62	40	<0.05	4.35	82	1.4
ZZ67830		<0.005	0.32	1.42	136	0.09	11.75	305	1.6
ZZ67831		0.005	0.20	1.95	62	0.07	15.15	140	1.9
ZZ67832		<0.005	0.41	3.17	135	<0.05	25.3	684	1.6
ZZ67833		<0.005	0.27	1.91	55	0.08	19.10	175	2.0
ZZ67834		<0.005	0.29	1.73	53	0.05	21.3	261	2.7
ZZ67835		0.011	0.33	2.21	69	0.20	8.53	145	1.1





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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67836		0.37	0.003	0.51	1.35	163.0	<0.2	<10	310	1.05	0.23	1.53	12.95	22.3	11.1	25
ZZ67837		0.33	0.003	0.94	1.86	284	<0.2	<10	320	1.24	0.25	0.68	4.76	47.1	13.0	39
ZZ67838		0.32	0.003	0.60	1.43	644	<0.2	<10	270	1.22	0.24	0.29	5.19	33.4	14.4	29
ZZ67839		0.31	0.004	0.80	1.68	681	<0.2	<10	340	1.44	0.26	0.23	4.67	40.1	17.8	28
ZZ67840		0.35	0.005	0.90	0.94	586	<0.2	<10	240	0.94	0.22	1.91	8.33	25.1	11.6	24
ZZ67841		0.28	0.007	1.03	0.67	653	<0.2	<10	210	0.87	0.18	6.33	8.74	21.7	11.1	18
ZZ67842		0.24	0.013	1.60	0.93	425	<0.2	<10	490	0.87	0.18	4.06	13.70	42.9	6.3	58
ZZ67843		0.25	0.026	2.72	0.82	1065	<0.2	<10	280	0.89	0.17	4.83	15.15	41.9	17.8	49
ZZ67844		0.32	0.008	2.18	0.94	508	<0.2	<10	560	1.04	0.19	3.13	17.50	28.6	10.8	35
ZZ67845		0.35	0.012	1.46	0.79	995	<0.2	<10	610	1.06	0.23	0.38	7.48	20.3	9.8	17
ZZ67846		0.32	0.009	1.63	0.75	240	<0.2	<10	430	0.89	0.24	0.68	2.35	18.95	8.6	14
ZZ67847		0.33	0.002	1.11	0.79	144.5	<0.2	<10	80	0.26	0.24	0.03	0.51	17.95	4.3	12
ZZ67848		0.21	0.010	1.50	0.89	325	<0.2	<10	390	0.95	0.22	1.27	3.36	19.20	8.0	16
ZZ67849		0.31	0.017	1.31	1.09	498	<0.2	<10	710	1.04	0.23	1.33	5.61	19.40	9.0	24
ZZ67850		0.33	0.002	0.66	0.60	19.6	<0.2	10	530	0.44	0.22	3.42	1.12	11.90	9.1	15
ZZ67851		0.29	0.001	0.46	0.59	7.8	<0.2	<10	440	0.22	0.23	0.10	0.31	11.00	2.6	15
ZZ67852		0.26	<0.001	0.18	0.62	9.8	<0.2	<10	510	0.43	0.19	0.37	0.19	7.85	4.3	13
ZZ67853		0.27	0.001	1.15	0.54	12.3	<0.2	10	500	0.17	0.25	0.02	0.05	4.08	0.8	11
ZZ67854		0.30	0.002	8.07	0.53	22.6	<0.2	<10	620	0.30	0.27	0.10	0.62	14.50	4.1	27
ZZ67855		0.27	0.010	6.16	0.48	74.1	<0.2	10	870	0.68	0.23	1.67	2.02	10.00	6.5	42
ZZ67856		0.30	0.003	2.20	0.45	23.7	<0.2	10	800	0.34	0.22	0.35	0.69	5.66	3.6	25
ZZ67857		0.38	0.003	2.81	0.29	16.6	<0.2	10	1030	0.39	0.15	0.30	0.72	3.06	1.9	19
ZZ67858		0.29	0.005	2.57	1.02	32.0	<0.2	<10	1880	0.53	0.24	0.63	0.49	12.30	4.0	27
ZZ67859		0.32	0.005	2.12	0.70	51.6	<0.2	<10	1760	0.74	0.23	0.64	0.85	13.55	4.4	36
ZZ67860		0.26	0.003	1.79	0.72	30.1	<0.2	<10	2470	0.62	0.18	0.86	0.69	13.70	4.9	34
ZZ67861		0.35	0.003	1.39	0.68	27.2	<0.2	<10	2420	0.63	0.19	0.57	1.16	15.35	5.5	41
ZZ67862		0.37	0.005	1.98	0.73	78.8	<0.2	<10	1800	0.69	0.17	0.47	1.66	12.05	5.9	32
ZZ67863		0.31	0.002	2.61	1.04	62.2	<0.2	<10	2210	0.82	0.23	0.57	3.00	14.75	7.1	53
ZZ67864		0.34	0.004	1.11	0.78	113.0	<0.2	<10	740	0.81	0.20	1.31	1.24	12.70	4.9	19
ZZ67865		0.28	0.006	2.17	0.92	74.0	<0.2	<10	1290	0.82	0.20	1.07	3.91	18.30	6.2	31
ZZ67866		0.37	0.558	7.66	0.60	569	0.4	<10	2930	1.09	0.14	11.85	23.5	10.30	6.2	24
ZZ67867		0.26	0.007	2.23	0.55	99.8	<0.2	10	1160	0.61	0.17	1.51	2.08	7.38	5.3	23
ZZ67868		0.28	0.036	1.01	1.29	573	<0.2	<10	540	1.18	0.21	4.17	2.62	23.4	9.4	24
ZZ67869		0.32	0.015	1.04	0.94	698	<0.2	<10	300	1.12	0.16	11.80	2.98	14.10	8.0	19
ZZ67870		0.23	0.006	0.76	1.10	531	<0.2	<10	470	1.14	0.19	4.58	3.11	18.65	7.9	22
ZZ67871		0.28	0.008	1.52	0.92	129.5	<0.2	<10	820	0.69	0.19	2.36	1.42	11.55	3.5	22
ZZ67872		0.28	0.003	1.01	0.63	32.0	<0.2	<10	1510	0.48	0.20	0.92	0.48	8.86	3.9	33
ZZ67873		0.34	0.004	2.88	0.60	53.1	<0.2	<10	1930	0.74	0.18	1.00	1.49	10.10	4.6	39
ZZ67874		0.32	0.003	1.55	0.55	32.2	<0.2	10	1220	0.84	0.16	3.26	1.46	8.02	5.6	31
ZZ67875		0.31	0.003	0.80	0.58	25.7	<0.2	<10	690	0.53	0.20	0.03	0.45	6.12	6.0	21

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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67836		1.07	41.9	3.28	3.80	0.06	0.04	0.17	0.036	0.08	19.9	12.9	0.29	457	10.20	0.02
ZZ67837		2.36	52.2	3.32	5.56	0.11	0.05	0.21	0.042	0.09	35.4	15.5	0.25	481	11.30	0.02
ZZ67838		1.86	40.8	3.80	4.32	0.07	0.06	0.21	0.041	0.08	20.6	12.6	0.24	653	16.40	0.02
ZZ67839		2.11	53.0	4.24	3.94	0.08	0.06	0.29	0.043	0.09	20.1	16.9	0.31	654	12.70	0.02
ZZ67840		1.60	42.7	3.19	2.74	0.07	0.06	0.50	0.033	0.10	17.3	9.9	0.69	274	14.95	0.02
ZZ67841		1.81	36.7	2.46	2.19	0.06	0.04	1.13	0.033	0.09	15.4	6.3	1.72	275	14.65	0.02
ZZ67842		1.45	38.6	1.82	2.91	0.09	0.03	2.63	0.026	0.05	48.1	5.2	0.20	257	9.45	0.02
ZZ67843		1.32	39.5	2.40	2.84	0.09	0.03	3.92	0.026	0.07	39.6	6.9	0.49	389	20.7	0.02
ZZ67844		2.10	74.5	1.98	3.28	0.10	0.05	1.70	0.030	0.10	26.6	9.3	0.42	337	12.30	0.02
ZZ67845		8.28	62.7	2.92	2.37	0.06	0.04	0.54	0.042	0.11	10.2	4.0	0.08	290	9.95	0.01
ZZ67846		9.43	47.8	2.36	2.47	<0.05	0.06	0.73	0.037	0.10	8.2	6.7	0.15	291	4.31	0.02
ZZ67847		13.90	21.7	2.03	3.98	<0.05	<0.02	0.19	0.026	0.07	8.7	2.9	0.06	79	4.25	0.01
ZZ67848		2.78	49.9	2.29	2.83	<0.05	0.07	1.26	0.034	0.09	10.9	8.6	0.22	217	2.71	0.02
ZZ67849		1.53	40.7	2.79	3.28	<0.05	0.05	1.38	0.032	0.09	11.6	9.0	0.27	424	3.96	0.02
ZZ67850		3.11	31.7	1.96	1.79	<0.05	0.03	0.13	0.032	0.08	11.1	5.7	0.14	324	1.72	0.02
ZZ67851		5.02	16.5	1.71	2.82	<0.05	<0.02	0.08	0.025	0.09	5.8	1.5	0.04	57	1.94	0.01
ZZ67852		2.09	28.3	1.85	2.08	<0.05	0.03	0.04	0.031	0.06	4.2	2.1	0.04	42	4.39	0.01
ZZ67853		3.96	7.6	1.77	2.14	<0.05	<0.02	0.05	0.027	0.22	2.0	1.3	0.02	20	3.90	0.02
ZZ67854		8.72	40.5	3.01	1.99	0.06	<0.02	0.08	0.052	0.25	10.9	1.5	0.02	204	10.75	0.02
ZZ67855		6.80	78.0	2.85	1.55	0.07	0.03	0.34	0.040	0.13	8.7	1.8	0.05	143	6.79	0.02
ZZ67856		2.34	41.7	2.69	1.33	0.06	<0.02	0.08	0.040	0.15	3.7	1.6	0.02	91	8.19	0.03
ZZ67857		0.65	38.9	1.87	1.14	<0.05	0.02	0.10	0.022	0.10	2.5	1.6	0.01	27	5.80	0.01
ZZ67858		2.08	27.7	1.97	3.86	<0.05	0.03	0.25	0.034	0.06	6.6	5.1	0.11	116	4.30	0.01
ZZ67859		2.01	33.3	2.86	2.57	0.05	0.02	0.32	0.037	0.08	7.2	4.0	0.05	124	11.20	0.01
ZZ67860		2.34	27.4	2.38	2.39	0.05	0.05	0.12	0.030	0.04	7.5	4.2	0.09	206	5.47	0.01
ZZ67861		3.13	27.8	2.53	2.19	<0.05	0.03	0.11	0.033	0.06	7.9	4.8	0.12	199	6.38	<0.01
ZZ67862		2.47	46.3	2.61	2.12	<0.05	0.02	0.33	0.035	0.08	6.9	5.3	0.09	198	6.73	0.01
ZZ67863		3.61	45.8	2.92	3.74	0.06	0.02	0.11	0.038	0.09	9.2	8.2	0.20	234	13.65	0.01
ZZ67864		1.38	30.3	2.29	2.43	<0.05	0.03	0.24	0.029	0.07	7.7	5.3	0.10	275	4.72	0.01
ZZ67865		1.75	42.7	2.51	2.82	0.05	0.05	0.22	0.034	0.08	10.6	8.0	0.22	235	7.36	0.01
ZZ67866		2.35	35.5	2.85	2.77	<0.05	0.03	8.10	0.036	0.05	6.4	3.7	0.12	273	29.0	0.02
ZZ67867		1.94	49.4	2.63	1.57	<0.05	0.03	0.21	0.030	0.10	4.8	3.6	0.12	170	6.74	0.02
ZZ67868		2.49	35.9	2.81	3.67	0.05	0.03	0.99	0.035	0.09	13.2	13.3	0.39	587	6.10	0.02
ZZ67869		1.97	25.9	2.49	2.58	0.07	0.04	0.81	0.027	0.08	7.5	8.1	0.29	592	6.83	0.01
ZZ67870		1.18	26.6	2.69	2.90	0.06	0.02	0.51	0.033	0.07	9.9	7.2	0.23	655	8.23	0.01
ZZ67871		2.96	23.6	1.67	3.22	0.05	0.05	0.37	0.026	0.07	6.2	4.6	0.14	216	5.54	<0.01
ZZ67872		3.42	26.0	1.91	2.84	0.05	0.03	0.11	0.028	0.06	5.3	2.9	0.08	137	7.11	<0.01
ZZ67873		2.33	39.0	2.83	2.05	0.08	0.04	0.25	0.032	0.07	7.9	2.9	0.07	148	7.40	<0.01
ZZ67874		1.38	38.3	2.58	1.77	0.06	0.04	0.20	0.030	0.08	5.9	3.4	0.54	181	10.30	0.01
ZZ67875		1.15	56.1	3.23	2.17	0.05	<0.02	0.14	0.036	0.07	3.7	1.4	0.03	81	6.73	<0.01

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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67836		0.28	92.7	1490	29.7	9.7	0.002	0.06	3.59	3.8	2.3	0.4	33.7	<0.01	0.06	1.1
ZZ67837		0.33	93.2	2640	60.1	15.3	0.001	0.05	4.15	6.2	4.5	0.6	49.2	<0.01	0.08	2.9
ZZ67838		0.31	122.5	1020	69.9	13.3	0.001	0.04	5.35	5.4	4.2	0.6	41.9	<0.01	0.06	3.8
ZZ67839		0.29	124.0	1130	68.5	13.7	0.001	0.05	4.77	5.9	3.5	0.5	41.3	<0.01	0.08	4.1
ZZ67840		0.25	118.5	870	63.7	7.8	0.001	0.05	5.54	4.8	5.2	0.4	46.1	<0.01	0.06	2.4
ZZ67841		0.17	109.5	780	63.7	7.3	0.002	0.04	6.78	4.3	5.0	0.4	85.9	<0.01	0.05	1.7
ZZ67842		0.35	93.7	1530	83.1	6.4	0.002	0.11	11.65	1.9	6.5	0.5	77.0	<0.01	0.06	0.4
ZZ67843		0.27	240	1470	388	6.5	0.002	0.12	76.1	2.6	9.5	0.4	73.7	<0.01	0.07	0.5
ZZ67844		0.32	142.0	1210	100.5	9.1	0.002	0.10	10.45	3.5	8.3	0.5	58.4	<0.01	0.08	0.8
ZZ67845		0.16	98.0	1280	67.0	14.3	0.001	0.10	5.54	3.6	4.9	0.5	70.6	<0.01	0.09	1.5
ZZ67846		0.26	47.7	920	33.9	14.9	0.001	0.04	2.80	5.0	1.8	0.4	32.0	<0.01	0.06	3.7
ZZ67847		0.35	25.6	450	29.4	15.6	0.001	0.02	1.77	1.2	1.0	0.6	13.4	<0.01	0.03	0.7
ZZ67848		0.36	43.4	1040	61.9	10.5	0.001	0.07	2.51	4.2	2.1	0.4	38.6	<0.01	0.03	1.9
ZZ67849		0.29	58.8	1350	85.0	9.4	0.002	0.09	2.97	3.4	3.5	0.5	53.7	<0.01	0.04	0.9
ZZ67850		0.20	41.9	850	10.9	8.6	0.001	0.09	1.13	1.4	1.3	0.3	52.9	<0.01	0.12	0.4
ZZ67851		0.25	14.2	790	10.2	13.1	0.001	0.12	0.90	0.5	0.5	0.6	14.1	<0.01	0.09	<0.2
ZZ67852		0.13	38.6	620	10.7	11.3	0.004	0.05	1.02	2.5	1.4	0.4	24.3	<0.01	0.10	0.9
ZZ67853		0.14	5.8	620	14.6	22.3	0.005	0.38	0.91	1.2	4.1	0.4	59.9	<0.01	0.13	1.2
ZZ67854		0.11	34.2	2080	14.4	23.0	0.002	0.50	1.86	4.8	9.8	0.6	108.0	<0.01	0.16	1.6
ZZ67855		0.09	99.4	2730	13.3	12.5	0.004	0.18	2.06	5.7	8.3	0.4	112.5	<0.01	0.15	1.3
ZZ67856		<0.05	47.7	1990	12.1	14.1	0.003	0.41	1.50	3.8	7.6	0.4	175.0	<0.01	0.29	0.9
ZZ67857		<0.05	51.2	930	8.4	7.5	0.002	0.27	1.26	3.4	4.5	0.3	97.8	<0.01	0.17	1.6
ZZ67858		0.46	34.1	1220	13.7	11.9	0.002	0.09	1.39	2.8	4.4	0.6	84.1	<0.01	0.10	0.5
ZZ67859		0.15	64.5	1700	14.2	8.2	0.003	0.12	2.74	2.3	6.0	0.5	201	<0.01	0.11	0.5
ZZ67860		0.22	47.0	1210	10.5	7.7	0.001	0.08	1.61	3.4	4.3	0.4	153.5	<0.01	0.08	0.7
ZZ67861		0.21	56.4	1310	12.1	7.5	0.002	0.06	1.89	3.6	4.2	0.4	139.5	<0.01	0.06	1.0
ZZ67862		0.14	65.2	1580	12.2	9.0	0.002	0.13	2.42	4.0	4.9	0.4	120.5	<0.01	0.12	0.7
ZZ67863		0.22	74.1	1920	13.9	12.8	0.003	0.10	3.48	2.4	6.5	0.6	142.0	<0.01	0.09	0.4
ZZ67864		0.23	44.4	980	16.8	7.1	0.001	0.08	2.22	2.9	2.8	0.4	44.0	<0.01	0.07	0.7
ZZ67865		0.27	55.8	1460	17.8	8.5	0.002	0.07	2.66	3.8	4.1	0.4	96.8	<0.01	0.06	1.1
ZZ67866		0.13	113.0	980	7470	5.0	0.001	0.12	24.0	4.8	3.9	1.1	198.5	<0.01	0.07	0.9
ZZ67867		0.12	79.6	1370	21.1	8.0	0.002	0.18	2.02	4.7	5.2	0.4	121.0	<0.01	0.13	0.9
ZZ67868		0.37	74.5	1150	43.1	8.9	0.001	0.08	3.14	6.2	3.0	0.5	46.7	<0.01	0.06	0.8
ZZ67869		0.44	77.0	890	50.5	6.9	<0.001	0.08	2.45	4.9	2.8	0.4	78.7	<0.01	0.06	1.3
ZZ67870		0.40	59.0	1180	27.2	7.4	0.001	0.16	2.63	1.8	2.9	0.4	65.3	<0.01	0.06	0.3
ZZ67871		0.49	28.0	1560	11.4	9.5	0.002	0.17	2.58	2.5	4.3	0.5	107.5	<0.01	0.07	0.4
ZZ67872		0.34	40.1	1100	10.7	9.1	0.003	0.10	2.07	2.4	4.2	0.6	145.5	<0.01	0.10	0.4
ZZ67873		0.24	60.9	1570	11.4	7.6	0.002	0.10	1.86	4.8	5.6	0.5	270	<0.01	0.09	1.0
ZZ67874		0.24	75.6	1310	10.0	7.5	0.003	0.22	1.63	3.5	5.0	0.4	248	<0.01	0.06	0.5
ZZ67875		0.24	97.2	430	9.9	8.7	0.003	0.04	1.23	4.1	5.4	0.5	26.4	<0.01	0.09	0.6

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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67836		0.007	0.48	3.23	208	0.13	34.2	583	1.1
ZZ67837		0.006	0.61	4.82	222	0.19	39.2	419	1.6
ZZ67838		0.006	1.39	2.87	213	0.22	26.0	674	1.7
ZZ67839		0.005	1.54	2.96	184	0.17	24.9	640	2.1
ZZ67840		0.006	1.44	2.28	212	0.22	29.0	820	1.7
ZZ67841		<0.005	2.74	2.57	178	0.24	26.4	1040	1.3
ZZ67842		0.009	3.35	4.43	205	0.24	51.4	867	0.9
ZZ67843		0.006	11.40	4.09	291	0.47	44.1	1340	1.2
ZZ67844		0.006	4.81	3.98	377	0.26	49.7	1400	1.6
ZZ67845		<0.005	2.53	3.48	152	0.17	29.4	610	1.2
ZZ67846		0.005	0.74	1.66	61	0.28	16.75	280	1.9
ZZ67847		0.008	0.89	0.68	64	0.18	3.21	141	<0.5
ZZ67848		0.006	0.64	1.82	66	0.35	17.30	343	1.8
ZZ67849		0.006	0.77	3.14	100	0.29	21.6	438	1.4
ZZ67850		0.006	0.26	0.50	28	0.08	24.6	177	0.9
ZZ67851		0.008	0.12	0.81	47	0.14	3.34	57	<0.5
ZZ67852		<0.005	0.26	1.97	40	0.05	10.75	128	0.7
ZZ67853		<0.005	0.32	0.41	34	<0.05	1.28	28	<0.5
ZZ67854		<0.005	0.55	3.30	57	0.07	17.15	116	<0.5
ZZ67855		<0.005	0.62	3.78	57	0.07	38.3	319	1.0
ZZ67856		<0.005	0.28	3.28	48	<0.05	18.85	160	<0.5
ZZ67857		<0.005	0.13	1.98	48	<0.05	20.2	127	1.5
ZZ67858		0.006	0.67	2.16	83	0.14	17.55	88	0.6
ZZ67859		0.005	1.79	4.41	115	0.18	24.6	193	<0.5
ZZ67860		0.006	0.38	3.18	79	0.18	25.2	138	1.5
ZZ67861		0.007	0.49	2.94	91	0.14	21.2	201	0.9
ZZ67862		0.005	0.64	3.27	122	0.18	27.9	223	0.6
ZZ67863		0.008	0.68	4.65	141	0.22	21.7	278	0.7
ZZ67864		0.006	0.40	2.16	70	0.15	17.15	186	0.8
ZZ67865		0.007	0.40	2.69	98	0.16	22.6	264	1.6
ZZ67866		<0.005	0.65	2.80	137	1.09	34.4	1290	1.0
ZZ67867		0.005	0.35	2.97	65	0.14	29.9	287	1.3
ZZ67868		0.014	0.59	2.30	98	0.47	32.2	396	1.0
ZZ67869		0.015	0.67	2.05	79	0.31	19.95	577	1.1
ZZ67870		0.011	0.54	1.26	78	0.41	16.70	337	0.6
ZZ67871		0.009	0.90	2.62	110	<0.05	15.65	101	1.5
ZZ67872		0.008	0.57	4.16	99	<0.05	9.17	146	0.8
ZZ67873		0.005	0.37	2.95	89	<0.05	33.8	208	1.2
ZZ67874		0.005	0.22	4.26	61	<0.05	29.0	292	1.8
ZZ67875		0.005	0.18	1.44	57	<0.05	14.45	295	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67876		0.35	<0.001	0.65	0.66	33.7	<0.2	10	1840	0.42	0.20	0.65	0.39	6.43	3.4	17
ZZ67877		0.42	0.006	3.21	0.52	16.0	<0.2	10	930	0.59	0.21	1.42	1.14	7.52	4.2	34
ZZ67878		0.33	0.005	1.83	0.36	15.9	<0.2	10	1050	0.40	0.21	0.50	0.84	5.32	4.3	22
ZZ67879		0.44	0.008	5.68	0.62	30.4	<0.2	10	1230	0.60	0.22	0.94	1.30	11.85	6.9	44
ZZ67880		0.32	0.003	1.66	0.57	14.8	<0.2	10	1200	0.51	0.18	1.59	0.49	6.98	3.7	21
ZZ67881		0.42	0.003	2.25	0.53	14.4	<0.2	<10	670	0.48	0.17	1.56	0.56	8.14	4.4	22
ZZ67882		0.33	0.002	0.79	0.54	8.0	<0.2	<10	880	0.49	0.17	0.79	0.33	9.61	4.5	12
ZZ67883		0.32	0.001	0.43	1.36	87.7	<0.2	<10	380	0.98	0.24	1.00	1.89	35.6	10.3	22
ZZ67884		0.31	0.001	0.83	1.15	31.7	<0.2	<10	290	1.08	0.23	0.91	1.60	47.0	9.8	18
ZZ67885		0.30	<0.001	1.08	0.65	49.7	<0.2	<10	170	0.94	0.22	3.89	3.73	40.2	9.7	12
ZZ67886		0.29	0.001	0.14	1.56	42.7	<0.2	<10	250	0.71	0.25	0.88	0.41	23.4	8.2	25
ZZ67887		0.35	<0.001	0.09	2.11	22.2	<0.2	<10	230	1.21	0.31	0.44	0.36	36.8	17.2	28
ZZ67888		0.36	0.003	2.28	1.15	145.5	<0.2	<10	1810	0.83	0.26	0.34	4.96	15.20	8.0	89
ZZ67889		0.30	0.004	0.79	1.00	347	<0.2	<10	260	1.35	0.24	0.09	2.01	18.55	11.3	22
ZZ67890		0.34	0.010	1.92	0.49	894	<0.2	<10	170	1.36	0.34	0.12	3.44	12.30	7.6	21
ZZ67891		0.31	0.003	0.35	0.47	224	<0.2	<10	280	0.46	0.27	0.05	0.96	9.64	9.5	10
ZZ67892		0.31	0.005	0.65	0.32	124.5	<0.2	<10	140	0.74	0.21	0.12	1.30	13.10	8.6	8
ZZ67893		0.32	0.007	0.69	0.41	61.0	<0.2	<10	640	0.78	0.25	0.19	2.09	18.80	9.9	10
ZZ67894		0.40	0.006	0.56	0.53	82.0	<0.2	<10	410	0.92	0.25	0.03	1.02	19.30	10.8	14
ZZ67895		0.40	0.015	1.29	1.32	2050	<0.2	<10	770	1.56	0.25	0.52	13.00	28.5	13.5	26
ZZ67896		0.30	0.006	0.80	1.48	7290	<0.2	<10	470	1.39	0.21	0.27	13.10	20.5	9.5	23
ZZ67897		0.36	0.003	0.30	1.59	1410	<0.2	<10	410	1.07	0.24	0.37	2.58	29.2	9.6	24
ZZ67898		0.34	0.002	0.08	1.76	101.5	<0.2	<10	350	0.84	0.27	0.54	0.37	23.5	7.3	27
ZZ67899		0.33	0.001	0.65	1.42	152.0	<0.2	<10	340	1.42	0.26	0.97	1.70	47.1	13.1	21
ZZ67900		0.25	0.001	1.42	0.66	31.1	<0.2	<10	160	1.03	0.22	4.77	9.87	27.0	12.3	12
ZZ67901		0.33	<0.001	0.12	1.32	69.0	<0.2	<10	260	0.81	0.24	0.72	0.66	28.3	9.5	18
ZZ67902		0.37	<0.001	0.95	0.94	27.6	<0.2	<10	220	0.98	0.23	1.72	3.94	24.9	9.8	16
ZZ67903		0.42	0.001	0.67	0.87	29.5	<0.2	<10	180	0.76	0.22	2.39	2.12	26.9	10.5	16
ZZ67904		0.31	0.001	0.61	0.75	24.8	<0.2	10	190	0.77	0.22	2.01	1.92	31.0	9.9	14
ZZ67905		0.44	<0.001	0.81	0.48	55.2	<0.2	<10	210	0.96	0.33	5.61	3.52	20.2	12.3	9
ZZ67906		0.35	<0.001	0.44	0.81	35.0	<0.2	<10	230	0.61	0.21	1.51	3.38	23.9	8.9	15
ZZ67907		0.32	0.002	1.22	1.51	73.7	<0.2	<10	300	1.14	0.23	4.92	2.65	33.5	8.7	21
ZZ67908		0.35	<0.001	0.40	1.55	54.4	<0.2	<10	280	1.21	0.25	2.96	2.35	40.3	10.8	20
ZZ67909		0.36	0.002	0.62	1.54	48.8	<0.2	<10	330	1.08	0.30	0.45	1.32	29.8	10.5	26
ZZ67910		0.38	0.001	0.42	1.09	44.1	<0.2	<10	260	1.32	0.35	0.31	1.37	29.6	20.2	19
ZZ67911		0.38	0.003	0.39	0.85	19.9	<0.2	<10	240	1.12	0.37	0.25	0.59	36.6	16.0	20
ZZ67912		0.37	<0.001	0.06	0.93	13.3	<0.2	<10	140	1.11	0.35	0.06	0.20	38.5	12.9	15
ZZ67913		0.33	<0.001	0.03	0.68	10.4	<0.2	<10	60	0.49	0.39	0.02	0.10	6.06	9.6	11
ZZ67914		0.31	0.001	0.15	1.63	12.4	<0.2	<10	230	1.10	0.29	0.37	0.17	43.0	14.3	27
ZZ67915		0.36	0.001	0.10	0.70	8.0	<0.2	<10	80	0.67	0.20	0.16	0.09	38.3	10.9	11





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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67876		0.75	28.7	2.26	2.40	<0.05	0.03	0.08	0.028	0.07	3.8	2.0	0.07	60	4.40	<0.01
ZZ67877		2.54	74.4	2.07	1.51	0.08	0.05	0.27	0.036	0.12	6.2	1.8	0.10	85	3.96	0.01
ZZ67878		1.20	74.2	1.95	1.21	0.08	0.05	0.27	0.040	0.13	3.6	1.1	0.03	53	5.12	0.02
ZZ67879		1.38	94.7	3.49	1.71	0.10	0.03	0.34	0.044	0.14	8.0	2.0	0.06	163	6.21	0.02
ZZ67880		1.00	38.4	2.02	1.57	0.05	0.05	0.14	0.035	0.11	5.4	2.0	0.08	150	2.76	0.01
ZZ67881		1.32	44.0	2.06	1.52	0.07	0.03	0.22	0.034	0.07	6.6	2.7	0.06	145	3.47	0.01
ZZ67882		2.79	28.1	2.02	1.56	0.05	0.03	0.10	0.030	0.06	6.0	2.5	0.07	138	1.36	<0.01
ZZ67883		1.59	24.7	3.71	4.15	0.07	0.04	0.08	0.039	0.09	16.6	9.1	0.24	833	3.87	0.01
ZZ67884		0.88	28.9	3.08	3.26	0.10	0.05	0.10	0.038	0.12	28.5	8.5	0.18	302	4.75	<0.01
ZZ67885		0.60	24.6	2.79	1.86	0.09	0.03	0.17	0.032	0.10	25.5	5.2	0.71	300	6.04	0.01
ZZ67886		1.38	17.9	2.85	5.18	0.05	0.04	0.03	0.030	0.05	11.6	12.4	0.38	352	1.71	<0.01
ZZ67887		1.61	46.7	4.99	5.24	0.07	0.07	0.07	0.043	0.12	13.2	31.5	0.64	912	1.29	<0.01
ZZ67888		3.19	70.2	3.58	4.57	0.09	0.02	0.16	0.042	0.08	9.0	7.2	0.18	422	37.8	<0.01
ZZ67889		4.11	110.0	4.64	2.98	0.07	0.03	0.21	0.056	0.09	7.3	9.2	0.19	717	7.03	<0.01
ZZ67890		11.30	101.5	7.29	2.21	0.10	<0.02	0.79	0.124	0.41	4.5	2.5	0.03	58	6.14	0.01
ZZ67891		9.03	51.0	3.03	2.20	<0.05	<0.02	0.09	0.036	0.12	3.9	1.1	0.04	1180	5.16	<0.01
ZZ67892		21.9	74.3	3.41	1.39	0.05	<0.02	0.28	0.043	0.12	6.2	0.8	0.03	159	9.27	<0.01
ZZ67893		12.70	77.5	2.94	1.77	0.08	<0.02	0.24	0.042	0.12	7.2	1.7	0.05	309	7.99	<0.01
ZZ67894		14.45	79.0	3.86	2.34	0.08	<0.02	0.10	0.050	0.16	7.2	1.4	0.04	263	10.10	<0.01
ZZ67895		3.52	65.2	3.89	3.15	0.09	0.05	0.98	0.045	0.11	14.9	7.2	0.24	432	12.30	<0.01
ZZ67896		5.05	47.2	3.29	2.20	0.07	0.06	0.97	0.037	0.10	8.4	2.8	0.04	379	11.50	<0.01
ZZ67897		2.95	32.5	3.71	4.15	0.07	0.04	0.25	0.039	0.07	13.1	10.9	0.24	537	8.01	<0.01
ZZ67898		1.56	16.6	3.30	5.43	0.05	0.05	0.05	0.033	0.07	11.6	11.6	0.36	445	1.58	<0.01
ZZ67899		1.08	33.6	4.49	3.40	0.10	0.06	0.12	0.045	0.08	23.8	9.4	0.41	1390	4.69	<0.01
ZZ67900		0.69	38.8	3.35	2.08	0.08	0.05	0.20	0.038	0.13	17.1	5.2	2.27	355	11.60	0.01
ZZ67901		1.35	20.8	3.29	4.19	0.05	0.04	0.07	0.034	0.08	11.5	9.9	0.22	613	3.71	<0.01
ZZ67902		0.67	32.4	3.27	2.90	0.08	0.05	0.15	0.041	0.10	16.2	7.0	0.25	411	6.34	<0.01
ZZ67903		0.65	32.0	3.00	2.59	0.08	0.04	0.14	0.032	0.11	15.5	8.1	0.79	356	4.32	0.01
ZZ67904		0.31	24.4	2.89	2.11	0.07	0.04	0.14	0.029	0.10	17.6	5.6	0.39	340	3.91	0.01
ZZ67905		3.11	33.5	3.34	1.71	<0.05	0.08	1.07	0.031	0.13	7.3	3.9	3.05	870	0.76	0.01
ZZ67906		0.58	19.7	3.65	2.30	<0.05	0.07	0.32	0.027	0.06	8.5	6.1	0.81	1260	0.89	0.01
ZZ67907		1.10	21.8	4.48	2.95	0.05	0.06	0.96	0.029	0.05	17.4	7.7	2.98	2620	1.33	0.01
ZZ67908		1.27	19.5	6.50	2.37	0.06	0.07	0.36	0.042	0.06	12.5	9.4	1.49	3610	0.88	0.01
ZZ67909		1.14	23.6	4.48	4.12	0.05	0.07	0.38	0.034	0.07	12.6	11.8	0.36	1500	1.20	0.01
ZZ67910		1.00	42.1	5.03	2.94	0.05	0.06	0.40	0.041	0.06	13.5	15.5	0.25	1140	0.94	<0.01
ZZ67911		1.20	41.2	4.14	2.57	0.06	0.03	0.17	0.044	0.07	15.5	11.4	0.24	952	0.80	<0.01
ZZ67912		1.65	29.9	3.78	2.24	0.05	0.06	0.02	0.037	0.07	9.0	14.0	0.13	553	0.65	<0.01
ZZ67913		1.06	29.1	2.92	2.43	<0.05	<0.02	0.02	0.026	0.13	2.7	7.8	0.15	182	0.37	<0.01
ZZ67914		1.31	27.4	5.06	4.22	0.05	<0.02	0.07	0.031	0.05	15.1	14.3	0.41	815	1.00	0.01
ZZ67915		0.72	19.7	3.22	1.50	<0.05	0.04	0.05	0.022	0.05	11.2	5.9	0.13	420	0.48	<0.01

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**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67876		0.31	42.0	630	11.0	7.7	0.002	0.08	1.07	2.9	3.7	0.5	86.5	<0.01	0.09	1.1
ZZ67877		0.15	63.0	1940	11.4	11.0	0.007	0.16	1.25	4.6	6.9	0.5	124.5	<0.01	0.14	1.4
ZZ67878		0.11	66.7	1190	10.8	9.5	0.013	0.25	1.13	4.5	9.2	0.4	127.5	<0.01	0.27	2.1
ZZ67879		0.16	113.5	2840	12.3	11.8	0.005	0.26	1.77	6.3	9.5	0.5	145.5	<0.01	0.13	2.4
ZZ67880		0.27	40.2	1000	9.9	8.8	0.003	0.23	1.22	3.4	4.0	0.4	93.2	<0.01	0.08	0.7
ZZ67881		0.22	46.2	1130	9.5	7.4	0.002	0.16	1.01	2.5	4.0	0.4	75.2	<0.01	0.11	0.5
ZZ67882		0.26	36.7	610	9.2	9.0	0.002	0.07	0.85	2.8	1.5	0.3	36.1	<0.01	0.09	0.9
ZZ67883		0.47	41.8	1230	21.5	13.8	0.001	0.08	2.03	2.7	1.5	0.5	30.0	<0.01	0.04	1.1
ZZ67884		0.28	42.4	1000	18.0	13.6	0.001	0.05	2.24	3.8	1.8	0.4	29.3	<0.01	0.04	2.1
ZZ67885		0.26	45.4	680	16.6	7.7	0.001	0.07	3.79	3.4	1.7	0.3	144.0	<0.01	0.04	1.2
ZZ67886		0.64	25.2	1260	13.4	10.1	<0.001	0.07	1.00	2.1	0.8	0.5	63.5	<0.01	0.04	0.9
ZZ67887		0.28	39.0	550	23.0	10.5	0.001	0.03	0.74	4.5	0.7	0.4	20.1	<0.01	0.05	3.2
ZZ67888		0.27	116.5	2420	22.0	14.3	0.002	0.14	8.16	1.4	13.8	0.6	87.1	<0.01	0.13	0.3
ZZ67889		0.23	91.9	1300	46.6	12.1	0.002	0.11	3.59	4.0	2.8	0.5	45.3	<0.01	0.11	2.0
ZZ67890		0.14	42.2	1980	31.5	39.0	0.002	1.21	4.32	7.0	3.4	0.7	230	<0.01	0.17	4.0
ZZ67891		0.14	35.0	1230	27.6	18.4	<0.001	0.07	2.48	0.4	1.8	0.5	12.0	<0.01	0.09	<0.2
ZZ67892		0.15	65.1	1360	21.1	14.8	0.003	0.05	4.26	3.2	3.2	0.4	22.3	<0.01	0.09	2.0
ZZ67893		0.13	63.3	1130	22.4	12.1	0.002	0.04	3.11	3.3	3.1	0.5	35.6	<0.01	0.08	1.7
ZZ67894		0.17	67.7	1260	21.2	19.5	0.002	0.21	4.04	3.0	4.4	0.6	64.0	<0.01	0.10	1.2
ZZ67895		0.45	181.5	1210	161.0	10.9	0.001	0.08	5.68	5.7	4.1	0.6	88.3	<0.01	0.12	3.6
ZZ67896		0.21	118.0	1610	95.8	12.6	0.002	0.09	4.98	2.7	3.5	0.5	79.1	<0.01	0.09	1.5
ZZ67897		0.39	86.9	1230	61.0	13.2	0.001	0.05	2.70	2.8	2.7	0.6	52.1	<0.01	0.07	1.3
ZZ67898		0.53	26.5	1520	20.3	18.1	0.001	0.07	0.67	2.4	0.6	0.6	19.0	<0.01	0.04	1.1
ZZ67899		0.30	51.1	960	33.4	11.6	0.001	0.05	1.99	4.5	2.0	0.5	27.7	<0.01	0.05	2.5
ZZ67900		0.17	68.8	590	19.9	8.2	0.002	0.04	7.75	5.9	3.3	0.4	50.3	<0.01	0.07	3.8
ZZ67901		0.45	29.0	940	18.6	10.4	0.001	0.05	1.26	2.5	0.7	0.5	27.6	<0.01	0.04	1.3
ZZ67902		0.27	46.0	720	20.6	9.5	0.001	0.09	4.58	3.7	2.5	0.4	61.8	<0.01	0.05	1.3
ZZ67903		0.36	42.8	920	18.7	7.3	0.001	0.05	2.53	3.8	1.5	0.3	68.8	<0.01	0.05	1.9
ZZ67904		0.32	39.4	880	15.7	6.0	0.001	0.07	2.27	3.1	1.4	0.3	78.3	<0.01	0.03	1.4
ZZ67905		0.17	28.3	500	230	10.9	<0.001	0.04	1.01	5.2	0.4	0.4	54.5	<0.01	0.04	4.7
ZZ67906		0.30	20.4	910	104.5	9.9	0.001	0.04	0.90	3.0	0.7	0.4	17.2	<0.01	0.03	1.6
ZZ67907		0.36	25.4	920	264	9.0	0.001	0.04	1.82	5.5	1.0	0.4	30.5	<0.01	0.05	2.1
ZZ67908		0.35	24.7	900	136.5	10.0	<0.001	0.05	1.01	5.1	0.4	0.4	22.9	<0.01	0.07	3.2
ZZ67909		0.52	25.3	940	133.5	13.5	<0.001	0.03	0.84	4.9	0.5	0.6	17.4	<0.01	0.06	2.1
ZZ67910		0.24	37.4	460	107.5	9.5	<0.001	0.01	0.84	8.9	1.0	0.5	29.2	<0.01	0.11	5.8
ZZ67911		0.31	34.6	660	48.7	9.2	<0.001	0.01	0.57	8.6	1.2	0.4	27.6	<0.01	0.09	4.7
ZZ67912		0.27	26.0	580	29.7	12.2	0.001	0.02	0.34	4.6	0.6	0.4	14.5	<0.01	0.05	2.7
ZZ67913		0.22	19.9	170	13.1	11.9	<0.001	0.01	0.20	2.7	0.2	0.5	9.4	<0.01	0.06	1.6
ZZ67914		0.57	33.1	670	23.4	9.3	<0.001	0.03	0.54	5.9	0.8	0.5	17.2	<0.01	0.06	1.4
ZZ67915		0.18	25.4	420	16.1	6.2	<0.001	0.03	0.33	2.7	<0.2	0.3	13.3	<0.01	0.05	2.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67876		0.005	0.18	2.18	70	<0.05	11.20	155	0.9
ZZ67877		<0.005	0.20	2.98	49	<0.05	26.9	212	1.9
ZZ67878		<0.005	0.16	2.21	36	<0.05	16.20	211	2.7
ZZ67879		<0.005	0.25	5.61	67	<0.05	33.0	358	0.9
ZZ67880		0.005	0.15	3.07	39	<0.05	20.7	158	2.1
ZZ67881		<0.005	0.18	2.37	37	<0.05	24.5	183	0.9
ZZ67882		0.005	0.14	1.74	31	<0.05	16.45	132	1.0
ZZ67883		0.009	0.43	1.73	70	<0.05	14.35	285	0.9
ZZ67884		<0.005	0.29	1.20	84	<0.05	22.3	215	1.1
ZZ67885		0.006	0.51	1.64	74	<0.05	20.4	287	0.9
ZZ67886		0.014	0.22	1.26	60	<0.05	6.48	103	0.9
ZZ67887		<0.005	0.16	0.99	42	<0.05	8.26	110	2.3
ZZ67888		0.006	0.75	5.77	259	0.19	17.80	527	<0.5
ZZ67889		<0.005	1.04	2.09	73	<0.05	11.35	485	0.9
ZZ67890		<0.005	2.95	3.08	95	0.74	10.90	436	<0.5
ZZ67891		<0.005	0.63	1.38	58	<0.05	4.91	273	<0.5
ZZ67892		<0.005	0.61	2.36	64	<0.05	7.87	379	<0.5
ZZ67893		<0.005	0.57	2.44	54	<0.05	16.95	370	<0.5
ZZ67894		<0.005	0.97	2.39	86	<0.05	13.05	417	<0.5
ZZ67895		0.011	3.30	3.39	248	0.12	37.5	1190	1.7
ZZ67896		<0.005	11.80	5.06	254	0.09	26.2	958	1.4
ZZ67897		0.007	2.24	2.75	192	0.05	20.3	464	1.0
ZZ67898		0.011	0.35	1.31	61	0.06	8.08	169	1.1
ZZ67899		<0.005	0.41	1.57	74	<0.05	20.7	291	1.5
ZZ67900		<0.005	0.39	2.76	107	<0.05	22.0	494	1.7
ZZ67901		0.008	0.63	0.99	65	<0.05	8.58	180	1.0
ZZ67902		<0.005	0.36	1.70	97	<0.05	18.10	336	1.6
ZZ67903		0.010	0.35	1.16	53	<0.05	14.80	248	1.1
ZZ67904		0.008	0.33	0.97	56	<0.05	15.45	233	1.2
ZZ67905		<0.005	0.95	1.10	14	0.07	11.10	580	3.3
ZZ67906		0.008	0.29	1.12	28	0.08	9.00	603	1.6
ZZ67907		0.007	0.84	2.17	35	0.13	21.6	887	1.4
ZZ67908		0.006	0.54	1.55	26	0.09	18.00	523	2.0
ZZ67909		0.008	0.40	1.46	44	0.16	13.90	422	1.5
ZZ67910		<0.005	0.39	1.87	25	0.05	26.0	339	2.2
ZZ67911		0.008	0.28	1.31	27	0.08	25.0	150	1.0
ZZ67912		<0.005	0.12	0.99	22	0.05	13.60	107	1.3
ZZ67913		<0.005	0.09	0.36	16	<0.05	3.68	75	<0.5
ZZ67914		0.014	0.16	4.80	49	0.18	18.25	101	0.7
ZZ67915		<0.005	0.09	0.90	16	<0.05	9.13	53	1.5



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67916		0.40	0.002	0.16	1.59	13.3	<0.2	<10	260	1.01	0.29	1.51	0.11	36.2	11.6	26
ZZ67917		0.37	0.001	0.18	1.30	14.1	<0.2	<10	190	1.25	0.32	0.59	0.15	35.9	11.7	20
ZZ67918		0.34	<0.001	0.05	1.87	12.0	<0.2	<10	170	1.02	0.32	0.22	0.11	28.4	9.4	24
ZZ67919		0.30	0.002	0.11	1.81	16.9	<0.2	<10	220	1.42	0.33	0.45	0.32	43.9	16.7	24
ZZ67920		0.34	0.001	0.06	1.71	11.2	<0.2	<10	90	1.17	0.36	0.07	0.33	40.8	14.4	21
ZZ67921		0.36	0.001	0.15	0.69	14.4	<0.2	<10	140	0.95	0.34	0.49	0.26	27.4	13.2	16
ZZ67922		0.32	<0.001	0.06	1.30	14.6	<0.2	<10	220	0.70	0.30	0.20	0.22	16.90	9.7	22
ZZ67923		0.35	<0.001	0.26	0.86	13.6	<0.2	<10	190	1.03	0.34	0.67	0.40	19.65	8.5	15
ZZ67924		0.39	<0.001	0.30	1.08	19.2	<0.2	<10	250	1.52	0.34	2.19	0.35	34.7	14.5	18
ZZ67925		0.38	0.002	0.74	0.66	38.1	<0.2	<10	630	0.81	0.24	6.11	1.39	14.75	6.9	11
ZZ67926		0.37	<0.001	0.48	1.87	33.7	<0.2	<10	190	0.82	0.25	4.40	1.00	34.8	6.4	23
ZZ67927		0.37	<0.001	1.20	0.52	68	<0.2	<10	340	0.52	0.10	12.85	3.92	14.05	4.4	8
ZZ67928		0.40	0.002	0.59	1.08	30.8	<0.2	<10	350	0.66	0.21	6.11	1.68	27.9	8.2	20
ZZ67929		0.28	0.001	0.72	1.34	38.6	<0.2	<10	270	0.72	0.23	4.50	4.24	34.4	9.6	23
ZZ67930		0.36	<0.001	0.83	0.77	55.6	<0.2	<10	200	0.76	0.21	7.52	2.73	23.5	7.7	12

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67916		1.47	27.2	3.62	4.20	0.06	0.07	0.05	0.033	0.07	14.3	12.7	0.38	487	1.02	0.01
ZZ67917		0.75	31.7	4.03	3.32	<0.05	0.06	0.07	0.044	0.06	11.9	13.1	0.23	500	0.96	0.01
ZZ67918		1.30	24.8	3.69	4.80	<0.05	0.04	0.03	0.036	0.07	9.2	20.0	0.31	254	0.98	0.01
ZZ67919		1.06	41.4	4.27	3.62	0.05	0.05	0.06	0.043	0.07	12.6	17.1	0.37	625	0.97	0.01
ZZ67920		1.33	29.3	4.06	3.14	<0.05	0.04	0.04	0.044	0.07	7.8	16.5	0.20	626	0.89	<0.01
ZZ67921		1.17	30.7	4.04	1.98	<0.05	0.06	0.07	0.039	0.07	9.1	7.5	0.17	666	0.76	0.01
ZZ67922		1.02	26.9	3.47	4.55	<0.05	0.03	0.03	0.030	0.07	6.6	14.5	0.25	476	1.70	<0.01
ZZ67923		1.29	28.5	3.53	2.46	<0.05	0.06	0.07	0.030	0.09	8.7	10.0	0.19	363	0.75	<0.01
ZZ67924		0.83	34.0	4.50	2.80	0.08	0.05	0.13	0.040	0.07	17.3	10.7	0.30	1100	0.63	<0.01
ZZ67925		0.68	19.5	3.20	1.88	<0.05	0.13	0.47	0.025	0.09	7.8	4.5	3.30	1160	0.86	0.01
ZZ67926		1.33	11.8	3.32	4.91	0.05	0.02	0.26	0.027	0.04	15.1	12.4	2.81	1520	1.09	0.01
ZZ67927		0.34	9.1	2.80	1.48	<0.05	0.03	1.18	0.016	0.05	8.3	2.8	7.89	2150	0.73	0.02
ZZ67928		0.92	18.5	3.03	2.93	<0.05	0.05	0.28	0.023	0.05	14.2	9.0	3.74	1470	1.08	0.02
ZZ67929		0.89	15.5	3.80	3.54	<0.05	0.05	0.48	0.024	0.06	16.6	11.1	2.86	2180	1.30	0.01
ZZ67930		1.05	19.2	3.74	2.25	<0.05	0.04	0.67	0.024	0.06	10.9	5.3	4.52	2020	0.68	0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67916		0.63	30.2	640	20.1	11.6	<0.001	0.03	0.53	5.0	1.0	0.6	76.6	<0.01	0.05	2.8
ZZ67917		0.37	27.8	680	22.9	10.3	0.001	0.04	0.39	5.5	0.8	0.6	42.5	<0.01	0.08	2.6
ZZ67918		0.59	23.0	650	18.9	14.6	0.001	0.03	0.41	4.1	0.3	0.6	18.3	<0.01	0.04	1.9
ZZ67919		0.36	36.4	460	30.3	11.5	0.001	0.02	0.45	7.4	0.7	0.5	35.5	<0.01	0.10	3.6
ZZ67920		0.48	26.6	650	28.4	11.0	0.001	0.03	0.45	3.6	0.5	0.5	9.8	<0.01	0.07	2.0
ZZ67921		0.25	28.9	720	33.5	9.9	<0.001	0.04	0.59	4.6	1.1	0.3	33.4	<0.01	0.06	2.0
ZZ67922		0.56	19.9	920	23.0	13.0	0.001	0.03	0.59	2.5	0.2	0.5	15.4	<0.01	0.06	0.9
ZZ67923		0.28	24.8	840	23.2	14.8	<0.001	0.05	0.35	3.9	1.1	0.5	53.4	<0.01	0.07	1.4
ZZ67924		0.22	30.1	820	51.0	9.7	0.001	0.02	0.43	8.2	1.2	0.5	107.5	<0.01	0.09	4.9
ZZ67925		0.25	19.0	1050	116.5	7.9	<0.001	0.06	0.74	4.1	0.9	0.4	43.6	<0.01	0.05	1.8
ZZ67926		0.73	18.2	760	71.5	8.9	<0.001	0.04	0.94	3.0	0.7	0.6	25.5	<0.01	0.05	0.9
ZZ67927		0.23	10.9	1000	198.5	3.8	0.001	0.05	1.31	2.8	0.4	0.3	60.4	<0.01	0.05	0.6
ZZ67928		0.72	24.7	980	66.5	6.9	<0.001	0.03	0.97	4.3	0.7	0.4	45.4	<0.01	0.04	2.6
ZZ67929		0.72	25.1	840	138.5	9.6	<0.001	0.04	1.15	4.0	0.3	0.4	28.4	<0.01	0.04	2.2
ZZ67930		0.33	20.4	720	133.5	6.4	<0.001	0.03	0.86	5.2	1.2	0.4	43.9	<0.01	0.06	2.6

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12155845**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67916		0.011	0.19	1.71	40	0.13	15.95	86	1.7
ZZ67917		<0.005	0.12	1.56	31	0.07	14.65	90	1.8
ZZ67918		0.007	0.16	1.09	43	0.13	6.57	93	1.2
ZZ67919		<0.005	0.19	1.07	36	0.10	12.90	124	1.5
ZZ67920		0.007	0.12	1.06	31	0.11	7.50	94	1.1
ZZ67921		0.006	0.12	1.49	25	0.05	20.0	127	1.9
ZZ67922		0.009	0.17	0.82	51	0.14	4.98	111	0.6
ZZ67923		<0.005	0.12	2.74	22	0.06	13.25	123	1.9
ZZ67924		<0.005	0.19	1.67	31	<0.05	25.5	122	1.9
ZZ67925		<0.005	0.34	1.30	20	0.06	14.25	367	3.1
ZZ67926		0.022	0.37	1.71	43	0.24	14.15	272	<0.5
ZZ67927		0.006	0.45	1.66	17	0.09	13.25	674	1.0
ZZ67928		0.026	0.30	1.51	35	0.19	14.70	349	1.3
ZZ67929		0.025	0.49	1.54	39	0.27	13.25	760	1.3
ZZ67930		0.007	0.65	1.53	20	0.12	15.60	485	1.1



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**CERTIFICATE OF ANALYSIS WH12155845**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12156005**

Project: ATAC- Regional Area A&B  
 P.O. No.: R10  
 This report is for 108 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842610		0.64	<0.01	0.10	0.53	189	50	0.22	0.03	32.4	0.43	12.00	2.3	15	0.66	4.4
L842611		0.43	<0.01	0.04	0.50	111	330	0.16	0.02	35.5	0.57	22.8	2.2	5	0.96	7.3
L842612		0.67	<0.01	1.63	2.76	13.1	1500	1.52	0.12	0.23	1.03	23.4	0.8	76	8.14	11.6
L842613		0.37	<0.01	1.30	2.02	31.1	3360	0.63	0.07	0.10	0.07	17.40	0.8	64	2.45	9.1
L842614		0.79	<0.01	0.27	0.11	13	30	0.05	0.01	24.6	5.83	0.99	1.4	3	0.08	2.1
L842615		0.71	<0.01	6.61	0.28	1350	60	0.57	0.23	23.9	80.0	2.26	1.5	32	0.21	18.4
L842616		0.92	<0.01	0.03	0.03	2170	90	0.74	<0.01	33.5	0.72	0.62	1.4	2	0.11	1.1
L842617		0.72	<0.01	0.01	0.04	7	50	<0.05	0.01	34.7	0.80	1.59	0.8	5	0.06	1.0
L842618		0.37	<0.01	0.03	0.11	21	70	0.07	0.01	36.4	0.71	2.40	1.0	7	0.17	1.3
L842751		0.58	<0.01	0.19	0.16	22	50	0.13	<0.01	34.7	0.32	2.53	0.7	4	0.14	1.5
L842752		0.34	<0.01	0.06	0.11	6	50	0.08	0.01	36.7	0.20	1.26	0.7	4	0.11	1.5
L842753		0.35	<0.01	0.06	0.50	130	140	0.22	0.02	36.8	1.03	5.12	0.9	8	0.77	4.2
L842754		0.29	0.01	0.58	0.14	52	40	0.10	0.01	35.1	0.93	2.71	0.8	4	0.20	1.8
L842755		0.20	<0.01	0.03	0.11	154	40	0.12	0.01	34.7	2.82	1.59	4.3	3	0.15	1.3
L842756		0.19	0.02	2.62	0.79	1120	70	0.69	0.04	33.3	17.15	7.77	3.4	8	0.96	8.4
L842757		0.21	0.01	3.46	0.09	561	40	0.14	0.04	36.3	22.9	1.01	0.9	2	0.10	2.0
L842758		0.37	0.13	0.42	0.33	129	570	0.43	0.02	31.7	13.15	3.38	1.1	7	0.64	3.2
L842759		0.65	<0.01	59.0	0.15	501	30	0.13	0.04	21.9	60.7	2.70	1.4	5	0.18	15.5
L842760		1.60	<0.01	0.66	0.17	1940	110	0.12	0.01	10.05	5.20	3.52	7.5	16	0.27	3.4
L842761		0.69	<0.01	0.99	6.30	829	850	1.94	0.23	0.64	8.55	84.4	17.0	88	6.15	70.1
L842762		0.57	<0.01	1.75	4.49	394	450	1.39	0.22	18.85	38.5	65.6	7.3	150	11.35	156.5
L842763		0.45	<0.01	0.26	0.21	277	90	0.12	0.01	35.0	8.89	5.63	1.5	5	0.30	9.9
L842764		0.65	<0.01	1.09	2.69	321	430	0.80	0.09	22.0	15.20	36.2	6.0	50	4.53	20.9
L842765		0.53	<0.01	0.16	0.29	45	220	0.15	0.01	34.6	8.67	21.1	0.9	7	0.51	3.3
L842766		0.21	<0.01	0.83	0.43	263	50	0.54	0.03	34.7	5.70	12.15	1.1	24	0.55	10.4
L842767		0.47	<0.01	0.53	0.34	129	30	0.16	0.02	35.5	3.07	13.85	2.1	27	0.15	8.0
L842768		0.32	<0.01	0.02	0.10	18	30	0.34	<0.01	34.1	0.08	1.84	0.6	3	0.09	0.9
L842769		0.64	<0.01	0.09	0.22	68	120	0.39	0.01	34.9	0.25	2.38	0.9	4	0.27	1.6
L842770		0.17	<0.01	0.02	0.05	441	20	1.39	0.01	35.3	0.44	1.25	1.2	3	0.07	1.6
L842771		0.25	<0.01	0.08	0.79	172	90	0.34	0.03	27.4	4.52	7.18	2.7	6	0.87	3.5
L842772		0.34	<0.01	0.13	0.64	464	230	0.29	0.02	34.4	9.98	7.80	9.2	9	1.22	3.1
L842773		0.24	<0.01	0.04	1.91	5	250	0.35	0.12	20.2	0.56	29.4	2.5	19	0.61	12.0
L842774		0.26	0.09	0.56	0.33	27	250	0.25	0.01	28.5	6.53	3.74	1.3	4	0.42	1.6
L842775		0.70	<0.01	0.04	1.52	6	150	0.45	0.07	23.0	0.04	54.0	2.8	12	2.61	5.3
L842776		0.46	0.01	0.03	0.15	<5	10	<0.05	0.01	20.8	3.71	9.61	1.1	2	0.12	1.9
L842777		0.22	0.01	0.02	1.29	7	160	0.28	0.03	26.5	0.20	20.9	1.8	15	1.63	3.3
L842778		0.51	<0.01	0.04	0.24	2050	230	0.14	0.01	27.9	0.04	8.65	1.4	4	0.44	2.0
L842779		0.68	<0.01	0.05	0.22	1160	80	0.13	0.02	22.5	0.06	9.50	1.3	4	0.38	1.5
L842780		0.20	<0.01	0.04	0.27	938	60	0.12	0.02	28.4	0.04	10.20	1.2	4	0.61	2.0
L842781		0.69	<0.01	0.09	2.61	10	190	0.71	0.08	24.5	0.22	30.5	4.0	27	1.34	12.6





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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842610		0.62	1.37	<0.05	0.5	0.25	0.006	0.26	7.2	1.5	0.90	333	0.43	0.02	0.9	0.4
L842611		0.46	1.35	0.05	0.4	0.08	0.006	0.25	14.9	2.6	0.47	371	0.29	0.01	0.9	2.0
L842612		0.69	7.93	0.10	1.3	0.20	0.020	0.92	19.3	24.8	0.20	25	44.3	0.04	7.0	39.2
L842613		1.33	7.16	<0.05	1.2	0.13	0.013	0.72	9.9	16.3	0.11	38	4.66	0.02	6.6	16.5
L842614		0.07	0.48	0.15	<0.1	5.34	<0.005	0.04	1.4	0.3	9.66	182	0.34	0.01	0.6	3.8
L842615		0.26	0.99	0.14	0.1	14.6	0.016	0.12	1.1	1.3	9.09	376	0.76	0.02	0.7	3.8
L842616		1.27	0.25	<0.05	<0.1	0.1	<0.005	0.01	<0.5	1.2	0.31	1180	0.60	0.02	0.6	33.8
L842617		0.05	0.27	0.08	<0.1	<0.1	<0.005	0.01	5.3	<0.2	0.29	143	0.18	<0.01	0.6	1.0
L842618		0.11	0.45	0.06	0.1	<0.1	<0.005	0.04	6.4	0.7	0.15	137	0.12	0.01	0.7	1.8
L842751		0.05	0.56	0.10	0.1	0.26	<0.005	0.07	1.4	0.2	1.31	46	0.17	0.01	0.7	0.3
L842752		0.05	0.48	0.15	<0.1	0.1	<0.005	0.05	1.4	<0.2	1.39	26	0.29	0.01	0.7	0.5
L842753		0.33	1.40	<0.05	0.2	0.1	<0.005	0.20	3.1	1.7	1.12	51	0.51	0.01	1.3	3.7
L842754		0.12	0.58	<0.05	0.1	0.84	<0.005	0.05	3.8	0.4	0.08	683	1.47	<0.01	0.7	2.7
L842755		0.23	0.37	<0.05	<0.1	0.07	<0.005	0.05	0.9	<0.2	1.13	118	0.32	<0.01	0.6	67.5
L842756		1.62	2.32	<0.05	0.3	3.62	0.007	0.35	3.8	1.6	0.57	1060	2.70	0.01	1.5	83.1
L842757		0.09	0.37	<0.05	<0.1	3.4	<0.005	0.04	0.8	<0.2	0.12	148	0.76	<0.01	0.5	2.1
L842758		0.31	1.03	<0.05	0.2	0.27	<0.005	0.14	3.0	0.5	3.35	480	0.20	0.01	0.8	4.9
L842759		0.38	0.58	<0.05	0.1	11.5	<0.005	0.05	2.6	9.3	3.05	248	14.10	0.01	0.4	33.4
L842760		3.74	0.49	<0.05	0.1	0.85	<0.005	0.02	13.4	1.4	0.05	129	22.8	0.01	0.3	47.2
L842761		5.09	16.70	0.09	3.1	0.60	0.061	1.91	48.0	37.8	0.86	710	9.97	0.52	15.6	117.5
L842762		2.21	12.55	0.21	2.4	1.27	0.047	1.91	56.6	13.9	1.19	258	84.1	0.08	9.2	222
L842763		1.21	0.55	<0.05	0.1	0.18	<0.005	0.08	8.6	0.7	0.25	54	8.27	0.01	0.5	44.3
L842764		1.64	7.20	<0.05	1.1	0.99	0.021	1.02	27.8	11.7	2.69	269	26.2	0.07	5.2	81.4
L842765		0.15	1.17	0.06	0.1	0.09	0.005	0.12	24.0	0.9	0.45	67	2.45	0.01	0.9	7.1
L842766		0.29	1.50	<0.05	0.2	3.67	<0.005	0.17	14.9	1.2	0.11	392	5.62	<0.01	1.2	23.7
L842767		0.22	0.82	0.05	0.2	4.68	<0.005	0.08	23.3	0.8	0.10	214	2.61	<0.01	1.0	17.4
L842768		0.05	0.39	0.10	<0.1	0.13	<0.005	0.04	1.1	0.2	0.73	98	0.72	0.01	0.5	0.8
L842769		0.14	0.64	<0.05	0.1	0.56	<0.005	0.08	1.3	0.6	0.36	280	3.61	0.01	0.7	2.2
L842770		0.48	0.32	<0.05	<0.1	0.6	<0.005	0.01	1.1	<0.2	0.08	620	1.05	<0.01	0.4	11.3
L842771		0.38	1.86	0.05	0.3	0.19	0.007	0.36	3.7	3.2	8.51	173	1.30	0.02	1.4	5.4
L842772		0.79	1.80	<0.05	0.3	2.05	0.005	0.30	4.2	2.2	1.10	1340	1.08	0.01	1.4	21.6
L842773		0.85	3.25	<0.05	1.4	<0.1	0.013	0.91	13.2	9.9	1.98	373	0.16	0.68	2.9	4.7
L842774		0.08	0.76	0.23	0.1	0.17	0.005	0.07	2.8	1.4	7.34	280	0.13	0.01	0.5	3.7
L842775		0.92	3.73	<0.05	0.8	0.10	0.018	0.80	20.3	14.0	0.25	130	0.16	0.10	2.3	6.7
L842776		2.02	0.73	<0.05	0.1	0.75	0.011	0.06	5.3	0.8	11.75	1540	0.09	0.01	0.4	0.3
L842777		0.55	2.67	<0.05	1.0	0.03	0.008	0.53	11.0	47.2	1.31	233	0.12	0.16	2.8	1.9
L842778		1.06	0.64	0.07	0.3	4.4	0.008	0.11	4.5	1.7	5.92	557	0.19	0.01	0.5	2.3
L842779		1.42	0.64	0.07	0.3	1.24	<0.005	0.10	5.0	2.0	8.88	533	0.34	0.01	0.5	2.2
L842780		1.02	0.73	0.07	0.3	4.79	0.010	0.13	5.2	1.9	5.24	679	0.22	0.01	0.7	2.6
L842781		1.09	6.08	0.07	1.6	0.07	0.019	0.90	16.4	18.8	1.18	237	0.48	0.38	4.3	9.6



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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842610		260	21.5	7.8	<0.002	0.01	0.66	1.7	2	0.2	810	0.06	<0.05	1.1	0.022	0.40
L842611		330	5.7	7.8	<0.002	0.02	0.26	3.8	2	0.2	878	0.05	<0.05	1.3	0.022	0.66
L842612		360	8.6	54.3	0.125	0.29	16.60	5.5	10	1.0	39.0	0.44	0.17	3.4	0.169	5.01
L842613		570	6.1	35.6	0.002	0.19	2.82	3.7	4	0.8	120.0	0.40	<0.05	2.9	0.099	0.35
L842614		80	2.3	1.6	<0.002	0.05	0.20	0.4	1	<0.2	134.5	<0.05	<0.05	0.2	<0.005	0.16
L842615		70	4060	4.4	<0.002	0.55	141.5	0.6	3	0.5	183.5	<0.05	<0.05	0.4	0.011	1.64
L842616		130	9.9	0.3	<0.002	0.32	0.79	0.7	2	<0.2	233	<0.05	<0.05	<0.2	<0.005	6.19
L842617		190	6.7	0.6	<0.002	0.01	0.21	0.6	1	<0.2	184.5	<0.05	<0.05	<0.2	<0.005	0.06
L842618		290	5.2	2.3	<0.002	0.01	0.16	0.6	1	<0.2	228	<0.05	<0.05	0.4	0.005	0.11
L842751		60	11.9	2.5	<0.002	<0.01	0.17	0.5	1	<0.2	155.5	<0.05	<0.05	0.2	0.006	0.03
L842752		20	8.8	1.7	<0.002	<0.01	0.29	0.4	1	<0.2	203	<0.05	<0.05	0.2	0.005	0.02
L842753		350	5.7	7.0	<0.002	<0.01	0.47	1.5	1	0.2	197.5	0.05	<0.05	0.7	0.023	0.08
L842754		30	17.2	2.1	<0.002	0.01	0.69	0.7	2	<0.2	68.9	<0.05	<0.05	<0.2	0.007	0.36
L842755		140	1.8	1.6	<0.002	<0.01	0.25	0.5	1	<0.2	89.9	<0.05	<0.05	<0.2	0.005	0.06
L842756		490	517	12.1	<0.002	<0.01	10.50	2.3	2	0.5	160.5	0.07	<0.05	1.1	0.034	0.24
L842757		50	1165	1.3	<0.002	<0.01	3.81	0.4	2	<0.2	161.0	<0.05	<0.05	<0.2	<0.005	0.06
L842758		260	158.0	4.9	<0.002	0.02	0.65	1.9	1	0.2	81.6	<0.05	<0.05	0.5	0.014	0.70
L842759		130	>10000	2.0	<0.002	0.19	34.8	0.7	6	<0.2	178.5	<0.05	<0.05	0.3	0.007	0.24
L842760		500	69.1	1.1	<0.002	0.01	6.59	0.3	7	<0.2	58.2	<0.05	<0.05	0.2	0.005	0.38
L842761		1440	177.5	90.2	<0.002	0.04	6.50	13.4	4	1.9	142.5	0.98	0.10	11.0	0.467	2.46
L842762		1420	42.9	78.6	0.002	0.21	21.0	9.9	14	1.5	229	0.58	0.15	7.5	0.221	5.24
L842763		160	22.6	3.1	0.002	0.02	2.83	1.0	3	<0.2	201	<0.05	<0.05	0.3	0.010	0.19
L842764		750	64.0	46.8	<0.002	0.04	9.79	5.0	6	0.9	245	0.31	<0.05	4.3	0.141	2.78
L842765		210	13.1	4.5	0.008	0.03	1.33	2.7	2	<0.2	266	<0.05	<0.05	0.5	0.012	0.27
L842766		1000	27.1	6.3	<0.002	0.02	11.50	2.8	3	0.2	61.3	0.05	<0.05	0.8	0.021	0.64
L842767		380	6.9	3.0	<0.002	0.02	3.21	3.2	3	<0.2	48.6	<0.05	<0.05	0.5	0.015	0.43
L842768		480	3.4	1.3	<0.002	0.01	0.10	0.3	1	<0.2	148.5	<0.05	<0.05	0.3	0.005	0.02
L842769		200	9.5	3.3	0.002	0.01	0.29	1.0	1	<0.2	176.0	<0.05	<0.05	0.3	0.010	0.21
L842770		150	7.2	0.4	<0.002	0.04	1.47	2.8	1	<0.2	39.7	<0.05	<0.05	<0.2	<0.005	1.43
L842771		300	7.0	12.6	<0.002	0.02	0.26	1.4	2	0.2	162.5	0.08	<0.05	1.1	0.038	0.13
L842772		800	4.9	11.6	<0.002	0.02	0.57	1.7	1	0.2	122.0	0.06	<0.05	1.1	0.030	0.49
L842773		340	14.3	29.9	<0.002	0.06	0.11	2.6	3	0.5	866	0.20	<0.05	3.8	0.077	0.17
L842774		200	36.5	2.8	<0.002	0.01	0.10	1.9	1	0.2	136.0	<0.05	<0.05	0.4	0.009	0.13
L842775		450	7.7	25.5	<0.002	0.12	0.14	3.8	2	0.5	822	0.16	<0.05	3.9	0.058	0.15
L842776		370	5.0	1.5	<0.002	0.02	0.45	0.8	1	<0.2	50.4	<0.05	<0.05	0.4	0.006	0.02
L842777		230	4.1	18.3	<0.002	0.06	0.16	2.0	3	0.4	1250	0.19	<0.05	2.9	0.068	0.19
L842778		90	3.7	4.6	<0.002	0.18	0.29	0.5	1	<0.2	338	<0.05	<0.05	0.6	0.010	1.71
L842779		100	7.8	4.5	<0.002	0.08	0.18	0.5	1	<0.2	263	<0.05	<0.05	0.5	0.008	1.25
L842780		110	5.2	5.4	<0.002	0.09	0.25	0.7	1	<0.2	322	<0.05	<0.05	0.7	0.011	2.96
L842781		610	10.1	44.7	<0.002	0.02	0.22	4.1	1	0.8	1115	0.32	<0.05	5.4	0.119	0.25



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**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001
L842610		6.2	13	0.2	5.5	40	14.9				
L842611		4.6	12	0.2	11.2	13	13.2				
L842612		7.3	1280	0.8	13.8	82	50.1				
L842613		1.9	235	0.6	10.0	52	46.0				
L842614		1.6	5	0.2	3.2	866	1.7				
L842615		2.3	7	0.4	1.1	7680	3.4				
L842616		3.9	6	2.7	1.9	1120	1.6				
L842617		0.9	4	0.2	13.1	25	1.0				
L842618		0.6	4	0.1	14.3	41	2.1				
L842751		1.2	11	0.3	2.4	20	2.1				
L842752		0.9	5	0.3	3.0	26	1.6				
L842753		0.9	11	0.6	6.2	68	6.3				
L842754		3.1	16	0.7	8.1	52	3.1				
L842755		0.9	4	0.2	3.2	267	1.9				
L842756		2.7	35	2.7	17.9	865	10.6				
L842757		1.2	8	0.2	3.2	227	1.2				
L842758		1.5	19	0.8	10.8	448	8.0				
L842759		2.4	188	0.4	4.2	6670	2.0		3.06		
L842760		1.7	40	0.1	16.3	254	2.7				
L842761		5.5	385	1.7	38.8	700	113.5				
L842762		11.9	1880	1.1	56.3	1610	105.0				
L842763		4.5	184	0.1	9.0	550	4.1				
L842764		7.6	522	1.5	25.7	934	39.8				
L842765		8.6	137	0.1	19.8	122	4.1				
L842766		9.6	218	0.5	29.8	185	13.3				
L842767		5.7	148	0.3	27.3	139	8.1				
L842768		5.6	5	0.3	0.8	15	1.2				
L842769		4.3	8	0.8	1.8	42	3.0				
L842770		3.1	31	0.4	12.3	23	3.5				
L842771		3.2	14	0.5	3.7	129	8.8				
L842772		5.2	18	0.7	8.9	608	8.1				
L842773		1.7	15	0.4	11.7	23	44.9				
L842774		1.1	12	0.4	16.3	98	6.2				
L842775		2.4	11	0.3	15.0	8	22.9				
L842776		0.7	3	0.1	4.7	397	3.0				
L842777		3.0	16	0.4	7.3	18	33.4				
L842778		6.7	8	0.1	6.8	7	7.1				
L842779		5.7	10	0.1	4.8	18	6.7				
L842780		6.3	9	0.1	9.2	7	8.9				
L842781		7.5	42	0.5	10.0	41	56.1				



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**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842782		0.45	<0.01	0.02	1.04	<5	90	0.21	0.02	29.3	0.14	16.60	1.4	6	0.34	6.0
L842783		0.63	0.03	0.73	3.36	13	410	0.99	0.11	20.9	0.72	35.9	7.6	48	2.01	30.2
L842784		0.31	<0.01	0.07	7.56	6.7	420	2.24	0.28	2.77	0.08	76.2	10.7	70	5.97	32.6
L842785		0.15	<0.01	0.05	3.02	9.4	90	0.64	0.11	0.10	<0.02	33.5	0.9	30	1.50	69.7
L842786		0.28	<0.01	0.03	1.07	72.2	30	0.17	0.04	0.41	0.08	25.5	10.4	13	0.39	10.4
L842787		0.27	<0.01	0.10	0.05	<5	10	<0.05	<0.01	20.0	31.4	1.96	0.2	2	<0.05	11.4
L842788		0.50	<0.01	0.03	0.15	52	10	0.18	0.01	21.2	0.08	3.49	0.2	3	0.10	1.9
L842789		0.27	0.11	0.25	0.71	130.0	130	0.35	0.07	0.44	22.2	6.80	10.9	6	2.35	12.8
L842790		0.50	<0.01	0.04	0.26	13.6	40	0.14	0.02	0.22	0.14	6.21	9.7	5	0.54	3.3
L842791		0.15	<0.01	0.01	0.44	10	30	0.17	0.01	34.2	0.04	6.57	1.7	7	0.59	4.7
L842792		0.56	<0.01	0.03	2.43	21	150	0.58	0.08	26.7	0.12	25.4	6.4	25	6.12	17.4
L842793		0.47	0.01	0.02	0.23	57	20	0.20	0.03	18.60	1.17	12.45	1.2	6	0.24	24.4
L842686		0.39	<0.01	<0.01	0.97	7	2350	0.30	0.02	31.7	0.03	17.40	1.7	6	0.60	2.7
L842687		0.36	<0.01	0.50	0.20	20.2	110	0.13	0.02	4.47	2.73	1.97	0.3	18	0.27	40.0
L842688		0.08	0.01	0.07	2.98	36.7	630	0.95	0.06	0.55	0.19	37.6	22.4	43	1.30	34.5
L842689		0.29	<0.01	0.04	0.33	<5	150	0.18	0.01	30.0	0.21	8.75	0.8	5	0.22	2.3
L842690		0.57	<0.01	0.15	1.20	<5	140	0.55	0.03	30.1	0.37	19.05	2.3	18	1.31	5.7
L842691		0.60	<0.01	0.04	0.28	<5	430	0.07	0.01	17.05	0.27	5.62	0.6	25	0.41	2.6
L842692		0.41	<0.01	0.08	0.48	<5	180	0.28	0.01	34.9	0.22	9.64	1.0	7	0.45	2.5
L842693		0.21	<0.01	0.23	1.88	<5	380	0.67	0.04	29.6	1.33	36.6	3.5	23	1.62	8.8
L842694		0.50	<0.01	0.02	5.27	<5	330	0.94	0.02	16.70	0.12	66.9	13.5	3	2.47	16.1
L842695		0.19	<0.01	0.02	0.14	2.3	60	<0.05	0.01	2.41	0.13	1.29	0.3	7	0.40	2.0
L842696		0.32	<0.01	0.67	0.77	258	260	0.25	0.06	0.83	0.09	14.90	23.6	85	0.47	22.3
L842697		0.63	<0.01	12.35	0.11	183	30	0.11	0.01	30.0	16.25	2.52	0.6	3	0.12	4.2
L842698		0.70	0.01	1.31	3.86	1180	1490	1.51	0.12	9.42	18.05	51.4	8.6	77	7.25	48.3
L842699		0.31	<0.01	0.92	0.96	279	1290	0.63	0.04	30.1	6.54	21.3	2.6	11	1.39	6.0
L842700		0.60	<0.01	0.19	0.18	85	800	0.12	0.01	14.70	4.59	7.15	1.0	16	0.48	7.7
L842801		0.37	<0.01	>100	0.20	9860	120	0.13	0.05	12.85	689	2.63	6.3	13	0.38	124.5
L842802		0.58	<0.01	>100	0.15	2420	70	0.16	0.05	20.4	43.0	2.21	1.1	5	0.24	13.7
L842803		0.50	0.01	2.30	6.01	3680	1700	2.62	0.19	0.71	14.05	66.9	20.8	111	9.12	71.7
L842804		0.64	<0.01	1.52	5.91	1270	1430	2.17	0.20	0.57	6.00	70.8	11.7	99	8.88	45.4
L842805		0.91	0.01	0.73	5.79	427	1410	1.98	0.23	0.66	3.01	68.1	10.8	83	13.35	53.0
L842806		0.92	<0.01	0.19	0.13	34	290	0.13	0.01	15.25	0.13	3.00	0.7	3	0.13	5.0
L842807		0.19	<0.01	0.37	2.87	178.5	6540	0.39	0.07	0.15	1.86	28.9	2.2	24	1.58	19.2
L842808		0.16	<0.01	0.28	0.67	237	140	0.49	0.09	0.22	2.92	6.56	14.6	7	1.21	77.9
L842809		0.24	<0.01	0.10	0.76	6.8	150	0.16	0.02	0.05	0.20	22.8	0.8	12	0.42	3.4
L842810		0.45	<0.01	0.15	1.67	1135	390	0.78	0.02	1.10	5.45	13.05	22.4	13	0.34	6.7
L842811		0.69	<0.01	0.40	0.90	11.4	430	0.32	0.07	9.60	0.81	10.25	1.8	29	1.91	10.3
L842812		0.17	<0.01	0.29	1.99	72.8	130	0.45	3.13	0.23	1.37	21.6	244	36	4.91	64.5
L842813		0.34	<0.01	0.04	0.09	11.5	40	<0.05	0.01	0.13	0.31	2.70	1.5	11	0.07	5.4



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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842782		0.43	1.84	0.05	0.5	0.03	0.008	0.26	9.7	8.8	0.79	236	0.12	0.37	1.3	3.7
L842783		1.41	8.56	0.08	2.3	0.37	0.030	1.78	19.5	33.6	3.42	136	5.03	0.06	6.4	18.3
L842784		3.61	19.80	0.14	2.9	0.04	0.059	2.70	38.1	75.2	3.12	450	0.35	0.62	13.1	35.7
L842785		9.27	7.42	0.11	1.1	0.09	0.054	0.63	17.3	111.5	0.37	56	0.65	0.18	4.0	4.0
L842786		5.45	2.50	0.07	0.4	0.12	0.017	0.16	9.3	33.4	0.48	1270	4.29	0.10	1.1	13.2
L842787		0.71	0.36	0.07	<0.1	23.0	<0.005	0.01	1.4	2.4	12.00	638	0.09	0.01	0.1	0.4
L842788		0.89	0.34	0.07	0.1	0.13	<0.005	0.03	2.0	6.1	11.50	893	0.09	0.01	0.1	0.9
L842789		47.1	2.70	9.49	0.3	4.22	0.026	0.28	3.9	12.6	0.32	356	0.77	<0.01	0.9	22.0
L842790		7.61	0.52	0.08	0.2	0.38	0.028	0.09	2.1	10.2	0.06	163	0.86	0.01	0.2	21.5
L842791		1.36	1.09	0.06	0.2	0.2	0.007	0.14	2.7	3.0	0.16	291	0.10	<0.01	0.5	5.8
L842792		1.66	5.93	0.07	1.0	0.32	0.019	0.79	12.0	18.0	0.59	192	0.26	0.07	3.4	13.2
L842793		6.53	0.59	0.09	0.1	32.2	0.063	0.03	3.8	11.5	5.75	1260	0.08	0.03	0.2	2.5
L842686		1.07	2.70	0.07	0.9	0.11	0.014	0.41	9.2	2.9	0.28	474	0.18	0.17	9.6	3.4
L842687		0.39	0.84	<0.05	0.1	0.26	<0.005	0.07	1.6	3.6	0.05	54	4.18	0.01	0.4	7.3
L842688		30.2	7.34	0.23	2.1	0.08	0.053	0.86	21.7	6.9	0.22	221	10.45	0.48	28.1	68.7
L842689		0.35	0.87	0.06	0.1	0.02	<0.005	0.14	6.0	2.9	0.22	74	0.49	0.04	0.6	3.0
L842690		0.71	3.04	0.08	0.4	0.02	0.014	0.55	12.5	13.1	0.52	107	0.74	0.02	2.0	11.1
L842691		0.36	0.65	0.06	0.1	0.02	<0.005	0.13	4.5	4.3	0.58	55	0.63	0.01	0.4	3.8
L842692		0.43	1.11	0.07	0.2	0.01	<0.005	0.23	6.4	3.7	0.40	65	0.89	0.01	0.8	4.3
L842693		0.97	4.63	0.08	0.6	0.03	0.016	0.90	24.2	14.7	1.36	141	2.68	0.02	2.9	18.1
L842694		5.29	12.80	0.12	3.7	0.01	0.050	0.63	35.3	80.6	1.81	949	0.36	0.99	34.3	9.2
L842695		0.35	0.32	0.05	<0.1	0.02	<0.005	0.05	0.9	14.4	0.06	38	0.28	0.02	0.3	10.6
L842696		21.0	2.40	0.11	0.8	0.34	0.022	0.24	6.3	16.6	0.12	422	36.1	0.17	7.2	44.7
L842697		0.16	0.26	0.06	<0.1	4.60	<0.005	0.04	2.3	5.9	1.05	202	12.05	<0.01	0.2	9.2
L842698		2.75	9.20	0.11	1.5	1.27	0.034	1.22	39.7	19.1	0.70	259	12.10	0.17	8.0	129.0
L842699		0.93	2.41	0.07	0.3	0.21	0.011	0.45	15.8	4.1	0.34	142	2.68	0.02	1.7	22.9
L842700		0.33	0.45	0.07	0.1	0.24	<0.005	0.06	11.6	2.1	0.16	64	1.71	0.01	0.3	17.3
L842801		0.25	1.36	0.12	0.1	84.6	0.018	0.07	2.4	19.2	0.22	338	1180	<0.01	0.3	305
L842802		0.21	0.46	0.07	<0.1	25.2	<0.005	0.05	2.1	13.7	1.80	229	266	<0.01	0.2	44.4
L842803		5.25	13.15	0.23	2.2	1.37	0.049	1.66	48.9	30.7	0.46	555	21.6	0.22	11.1	333
L842804		4.00	14.55	0.14	2.7	0.54	0.053	1.81	42.6	30.9	0.59	461	8.48	0.34	18.2	99.3
L842805		3.46	15.00	0.13	2.4	0.83	0.055	1.71	36.6	26.9	0.62	430	8.25	0.39	14.6	58.9
L842806		0.42	0.47	<0.05	0.1	0.24	0.006	0.03	2.1	8.9	8.98	568	0.65	0.02	0.3	2.1
L842807		1.58	5.16	0.06	0.9	34.7	0.023	0.04	17.7	179.0	0.06	27	1.08	0.03	2.0	10.1
L842808		>50	2.26	1.50	0.3	1.29	0.076	0.22	3.8	1.6	0.19	245	32.6	0.01	1.4	81.1
L842809		2.05	1.93	0.05	0.6	0.38	0.006	0.27	10.7	23.3	0.05	121	0.66	0.01	1.5	3.8
L842810		27.5	2.48	0.48	0.7	4.80	0.012	0.08	6.1	34.2	0.69	1510	0.92	0.01	1.0	57.4
L842811		1.37	2.90	<0.05	0.5	0.06	0.012	0.39	10.5	13.0	5.61	96	1.84	0.02	2.2	13.6
L842812		47.2	6.12	0.98	0.6	1.53	0.077	0.89	10.3	3.2	0.48	720	36.4	0.02	2.9	99.7
L842813		0.50	0.35	<0.05	<0.1	0.05	<0.005	0.01	1.5	0.9	0.03	231	0.45	<0.01	0.1	2.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02		
L842782		140	3.9	12.3	<0.002	<0.01	0.06	1.6	1	0.2	1780	0.08	<0.05	1.6	0.031	0.07	
L842783		1630	21.2	80.8	0.003	0.02	0.68	5.9	1	1.2	1015	0.49	<0.05	9.7	0.178	0.79	
L842784		470	14.1	90.4	<0.002	0.14	0.40	13.1	1	2.6	156.0	0.98	<0.05	12.0	0.362	0.65	
L842785		90	6.6	35.3	0.002	0.44	0.73	5.3	2	1.1	45.9	0.28	<0.05	4.6	0.142	0.16	
L842786		150	37.4	8.0	<0.002	4.08	1.22	1.9	1	0.5	44.7	0.08	<0.05	1.7	0.035	1.03	
L842787		90	15.9	0.3	<0.002	0.08	1.11	0.1	<1	0.3	38.9	<0.05	<0.05	<0.2	<0.005	<0.02	
L842788		300	4.9	1.2	0.002	0.01	2.90	0.3	<1	0.3	146.5	<0.05	<0.05	0.2	<0.005	0.08	
L842789		1070	1300	9.3	<0.002	0.41	26.1	1.5	2	0.5	15.6	0.07	0.05	1.5	0.024	0.31	
L842790		350	7.3	3.2	<0.002	0.02	0.25	0.6	1	0.3	20.7	<0.05	<0.05	0.5	0.007	0.14	
L842791		60	2.3	6.2	<0.002	<0.01	1.66	2.1	1	0.3	1610	<0.05	<0.05	0.7	0.024	0.02	
L842792		190	6.4	36.6	0.002	0.06	5.35	6.4	1	0.8	396	0.25	<0.05	3.5	0.156	0.19	
L842793		90	30.7	1.4	<0.002	0.02	25.5	5.5	1	0.3	581	<0.05	<0.05	1.0	0.012	0.04	
L842686		200	0.7	11.9	<0.002	0.09	0.20	1.5	<1	0.5	1440	0.54	<0.05	1.5	0.091	0.04	
L842687		7490	2.1	3.1	0.013	0.03	1.41	0.3	1	0.3	111.5	<0.05	<0.05	0.3	0.009	0.02	
L842688		1400	19.6	26.1	0.002	0.13	0.71	6.6	2	1.1	53.2	1.49	<0.05	4.7	0.329	0.34	
L842689		380	<0.5	6.0	0.002	0.07	0.34	0.7	1	0.4	1410	<0.05	<0.05	0.5	0.017	0.04	
L842690		380	2.7	24.7	0.002	0.31	0.49	2.3	2	0.6	546	0.13	<0.05	1.7	0.062	0.11	
L842691		100	0.9	5.3	<0.002	0.04	0.55	0.5	<1	0.4	282	<0.05	<0.05	0.4	0.013	0.07	
L842692		130	7.5	9.6	0.002	0.24	0.57	1.0	1	0.4	1320	0.05	<0.05	0.7	0.025	0.08	
L842693		450	6.6	37.6	0.006	0.27	1.43	3.3	2	0.8	474	0.18	<0.05	2.4	0.090	0.26	
L842694		3190	2.4	13.4	0.003	0.01	0.08	10.3	1	1.3	197.5	2.10	<0.05	3.7	1.000	0.02	
L842695		40	2.1	2.3	0.002	0.05	0.22	0.2	<1	0.3	73.9	<0.05	<0.05	<0.2	0.007	<0.02	
L842696		4100	21.3	7.4	0.002	0.14	4.09	3.0	5	0.6	25.7	0.40	<0.05	1.5	0.228	1.18	
L842697		70	6300	1.4	<0.002	0.08	11.15	0.4	3	0.3	368	<0.05	<0.05	0.2	0.005	0.20	
L842698		1020	108.0	60.7	0.003	0.08	9.19	7.5	6	1.3	193.5	0.51	0.06	5.3	0.211	6.48	
L842699		110	19.4	17.9	0.006	0.23	1.73	2.6	2	0.6	876	0.10	<0.05	1.3	0.051	0.76	
L842700		230	5.1	2.8	0.012	0.05	1.06	0.5	1	0.3	213	<0.05	<0.05	0.3	0.009	0.75	
L842801		990	>10000	2.7	0.023	0.19	52.0	1.0	42	0.2	155.0	<0.05	<0.05	0.4	0.008	1.47	
L842802		220	>10000	1.9	0.006	0.61	76.7	0.6	7	<0.2	159.5	<0.05	<0.05	0.2	0.005	0.74	
L842803		1870	369	82.2	0.002	0.08	12.50	12.8	6	1.5	241	0.74	0.13	9.3	0.322	5.65	
L842804		1420	343	91.4	0.002	0.06	4.29	11.7	3	1.8	127.0	1.18	0.08	9.6	0.394	2.96	
L842805		1030	55.9	95.6	<0.002	0.05	5.91	12.1	4	1.9	128.0	0.96	0.06	9.6	0.354	2.72	
L842806		190	63.6	1.2	<0.002	0.02	0.95	0.6	1	<0.2	93.0	<0.05	<0.05	0.3	0.006	0.07	
L842807		1010	1310	4.8	<0.002	0.15	313	1.8	1	0.6	216	0.14	<0.05	5.9	0.044	0.21	
L842808		170	217	8.7	<0.002	0.06	7.31	1.8	5	0.7	9.1	0.05	0.08	0.8	0.024	2.39	
L842809		470	40.9	12.7	<0.002	0.01	1.69	1.5	1	0.3	13.8	0.11	<0.05	2.3	0.067	0.08	
L842810		420	144.5	2.8	<0.002	0.03	33.0	3.5	3	0.2	55.4	0.05	<0.05	2.3	0.020	1.68	
L842811		480	19.4	18.3	0.002	0.06	2.27	2.3	4	0.3	47.6	0.12	0.14	2.0	0.052	0.28	
L842812		80	181.0	32.0	0.002	0.08	3.75	4.1	2	2.7	6.8	0.16	0.78	4.6	0.085	9.05	
L842813		100	13.2	0.9	0.002	0.01	0.31	0.6	1	<0.2	1.4	<0.05	<0.05	0.3	<0.005	0.04	

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**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001
L842782		3.2	9	0.2	5.8	12	15.8				
L842783		18.3	89	0.7	17.3	74	89.1				
L842784		3.1	74	1.4	17.9	86	97.3				
L842785		1.2	31	0.5	5.6	46	39.0				
L842786		0.6	11	0.2	5.6	88	12.9				
L842787		0.5	<1	<0.1	0.9	>10000	0.6		1.705		
L842788		1.2	3	0.1	1.8	57	2.4				
L842789		3.5	7	0.3	4.7	>10000	13.5		3.92		
L842790		1.2	2	0.1	7.4	143	6.1				
L842791		0.4	12	0.1	8.8	49	6.8				
L842792		0.8	41	0.6	6.9	38	33.4				
L842793		0.2	21	0.9	22.7	783	3.7				
L842686		0.4	11	0.2	4.6	16	40.4				
L842687		2.9	165	0.1	4.0	55	2.4				
L842688		1.1	48	0.7	10.3	80	73.0				
L842689		1.0	20	0.1	6.5	15	4.6				
L842690		1.6	44	0.2	11.6	38	15.4				
L842691		0.8	16	0.1	5.5	20	3.4				
L842692		1.0	25	0.1	5.8	18	6.5				
L842693		3.6	137	0.4	19.4	89	21.8				
L842694		1.1	118	0.3	16.8	102	154.0				
L842695		0.3	31	0.1	0.8	10	1.6				
L842696		2.0	35	0.3	6.0	49	37.0				
L842697		1.8	93	0.2	4.1	767	1.6				
L842698		5.5	654	1.2	35.3	1110	55.5				
L842699		4.5	70	0.8	15.7	400	12.8				
L842700		1.7	146	0.1	11.7	164	3.9				
L842801		25.1	2280	0.6	6.2	>10000	2.6	227	8.23	8.31	
L842802		4.8	672	0.3	4.3	4900	1.6	132	5.75		
L842803		8.8	801	1.9	66.2	1740	79.4				
L842804		5.4	354	1.4	31.7	553	102.5				
L842805		5.1	389	1.6	26.8	304	87.0				
L842806		0.3	4	0.1	2.6	18	3.8				
L842807		4.9	25	0.6	5.6	1600	34.2				
L842808		5.6	29	0.4	4.1	307	18.2				
L842809		0.6	11	0.3	5.3	59	19.9				
L842810		8.9	19	0.4	20.7	6220	24.7				
L842811		3.5	44	0.3	12.3	112	19.3				
L842812		7.0	179	0.6	9.1	130	20.9				
L842813		0.5	9	0.1	1.2	15	2.3				



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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
L842814		0.92	<0.01	0.35	0.65	8	240	0.27	0.04	10.60	0.61	11.25	3.8	18	1.20	6.0
L842815		0.47	<0.01	1.05	0.11	62	140	0.15	0.02	25.0	8.40	2.98	4.8	4	0.27	26.3
L842816		0.18	<0.01	0.08	2.94	3400	7930	1.00	0.15	0.32	1.79	39.4	27.0	58	1.91	170.5
L842817		0.17	<0.01	0.32	1.00	60.0	180	0.39	0.03	0.34	1.09	11.65	3.0	14	1.90	29.6
L842818		0.90	<0.01	0.22	0.26	2200	1170	1.38	0.07	17.85	1.40	4.26	142.5	26	0.19	62.2
L842819		0.38	<0.01	0.04	0.61	148	390	0.61	<0.01	10.25	2.30	3.24	15.8	3	<0.05	9.0
L842820		0.06	<0.01	0.23	0.50	2840	130	0.46	0.08	0.30	27.3	4.69	123.5	34	0.35	312
L842821		0.17	<0.01	0.09	0.10	9370	860	3.13	<0.01	34.2	2.26	2.46	11.8	2	0.80	5.1
L842822		0.37	<0.01	0.13	0.35	138	140	0.42	0.13	38.1	1.73	3.03	1.5	5	0.41	2.6
L842823		0.16	<0.01	0.03	0.04	33	30	0.06	<0.01	37.8	0.16	0.50	0.8	1	0.05	1.8
L842824		0.58	<0.01	0.02	0.18	35	60	0.13	0.01	37.8	0.07	2.05	1.0	2	0.28	1.6
L842825		0.17	0.01	0.31	2.66	>10000	480	3.49	0.12	1.47	28.8	17.90	35.4	33	5.36	20.2
L842826		0.58	0.02	0.04	0.28	1620	100	0.16	0.01	23.8	0.07	7.73	1.3	4	0.35	2.1
L842827		0.48	0.01	0.10	1.54	36	110	0.49	0.04	29.6	0.17	20.3	2.6	13	0.71	9.0
L842828		0.27	<0.01	0.05	1.78	14	830	0.57	0.03	16.70	0.09	35.9	1.2	12	0.62	6.4
L842829		0.38	<0.01	0.03	4.01	8.7	450	1.22	0.15	9.62	0.25	50.6	6.3	39	2.55	10.5
L842830		0.46	0.01	0.05	2.33	11	110	0.89	0.07	13.75	0.09	38.7	6.8	39	1.06	13.1
L842831		0.33	0.01	0.03	0.93	7	150	0.21	0.02	15.95	0.15	16.25	0.8	7	0.24	2.6
L842832		0.21	<0.01	0.13	4.14	49.8	190	0.80	0.14	0.15	<0.02	48.9	3.3	27	4.04	10.5
L842833		0.34	<0.01	0.03	1.74	17.1	70	0.33	0.05	0.36	0.05	32.2	13.4	16	0.99	18.5
L842834		0.26	<0.01	0.04	1.76	22.7	80	0.35	0.02	0.10	0.03	13.55	1.8	20	1.75	26.4
L842835		0.53	0.03	0.16	11.30	323	920	3.18	0.34	0.15	0.09	79.0	20.2	146	43.8	118.0
L842836		0.50	<0.01	0.05	2.00	14	160	0.55	0.07	28.6	0.09	19.15	7.0	18	4.06	16.7
L842837		0.35	<0.01	0.02	2.10	31	80	0.58	0.05	10.55	0.02	20.8	5.2	29	2.08	15.2
L842838		0.26	<0.01	0.02	0.58	>10000	90	0.12	0.03	2.00	0.02	6.67	1.5	12	0.49	4.5
L842839		0.27	<0.01	0.02	0.16	104	30	0.23	0.01	35.0	0.16	4.67	2.7	3	0.14	2.3
L842840		0.27	0.02	2.59	2.92	230	160	1.04	0.44	0.41	0.04	37.1	102.0	26	2.95	155.0
L842841		0.19	<0.01	0.03	0.43	242	320	1.00	0.02	31.0	0.03	4.74	27.5	4	1.16	3.9

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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842814		0.88	2.09	<0.05	0.4	0.06	0.010	0.28	10.6	4.7	5.95	213	1.19	0.01	1.4	16.5
L842815		4.52	0.66	0.08	0.1	0.08	0.011	0.03	8.5	1.1	7.19	525	2.84	0.01	0.3	34.9
L842816		22.5	15.55	0.35	1.0	8.3	0.097	0.62	21.0	12.4	0.19	122	1.05	0.06	2.6	69.0
L842817		>50	3.64	1.32	0.4	0.15	0.069	0.31	8.9	2.3	0.34	340	38.5	0.01	2.0	24.9
L842818		20.2	1.44	0.34	0.2	3.73	0.010	0.07	3.7	0.8	5.20	146	39.0	0.01	1.0	271
L842819		11.75	0.73	0.18	0.1	0.35	<0.005	0.01	1.4	6.0	6.20	939	0.32	0.01	0.3	32.5
L842820		>50	34.4	6.99	0.4	0.53	0.861	0.07	7.8	0.9	0.17	459	52.6	0.01	1.1	875
L842821		2.61	1.43	0.05	0.1	0.14	0.016	0.04	1.5	3.2	0.32	14600	5.15	0.02	0.4	281
L842822		0.28	1.00	<0.05	0.1	0.19	<0.005	0.15	1.7	1.5	0.25	91	1.17	0.01	0.7	9.7
L842823		0.05	0.21	0.05	<0.1	0.49	<0.005	0.01	<0.5	0.3	0.16	33	0.53	<0.01	0.3	3.3
L842824		0.10	0.50	0.05	0.1	0.09	<0.005	0.08	1.3	0.8	0.51	20	1.43	0.01	0.5	4.3
L842825		42.5	7.27	0.83	0.9	3.67	0.072	1.10	10.1	9.0	0.22	1040	46.7	0.02	4.0	452
L842826		1.46	0.78	<0.05	0.2	1.27	0.007	0.14	4.1	2.0	9.25	586	0.39	0.01	0.5	2.5
L842827		1.40	3.74	<0.05	0.8	0.05	0.013	0.50	11.0	14.8	1.25	139	1.05	0.29	2.4	7.5
L842828		0.76	3.50	<0.05	3.6	0.04	0.012	0.88	19.0	12.0	2.40	151	0.25	0.25	3.0	3.3
L842829		2.71	10.15	0.07	2.1	0.01	0.031	1.84	25.4	36.1	6.68	406	0.44	0.13	8.1	18.0
L842830		1.96	6.40	0.05	1.8	0.08	0.021	0.86	19.9	14.6	5.47	303	3.35	0.02	5.8	20.7
L842831		0.48	1.57	<0.05	1.7	0.03	0.005	0.40	9.0	4.6	3.87	163	0.38	0.43	1.5	2.2
L842832		4.39	10.90	0.11	3.1	0.22	0.029	1.37	26.3	17.4	0.27	39	1.51	0.59	10.2	10.1
L842833		5.98	4.79	0.11	0.9	0.03	0.016	0.36	16.9	39.0	0.57	1600	0.82	0.11	3.0	21.9
L842834		3.19	4.82	<0.05	0.6	1.72	0.019	0.57	6.5	13.9	0.11	202	0.40	0.01	1.5	13.0
L842835		5.10	40.3	0.21	4.7	3.39	0.129	5.33	34.3	63.5	0.69	171	0.89	0.04	16.4	45.8
L842836		1.33	5.04	<0.05	0.9	0.11	0.017	0.67	9.5	12.9	0.86	180	0.29	0.11	3.3	13.3
L842837		3.00	4.92	0.06	1.2	4.73	0.021	0.64	9.9	44.1	2.24	921	0.17	0.03	2.9	10.5
L842838		1.37	1.28	<0.05	0.7	1.58	0.044	0.08	3.2	17.5	0.61	438	0.22	0.01	0.8	3.6
L842839		1.59	0.41	<0.05	0.1	0.05	<0.005	0.07	2.3	1.9	0.62	182	0.28	0.02	0.4	5.9
L842840		29.4	8.48	0.56	1.3	0.56	0.052	0.97	15.3	7.8	0.22	389	9.10	0.10	2.6	106.0
L842841		2.96	1.45	<0.05	0.2	0.02	<0.005	0.14	2.5	5.2	0.71	5140	0.59	0.03	0.7	55.3

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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842814		2480	7.0	13.5	<0.002	0.01	1.18	1.9	2	0.3	49.8	0.08	0.05	1.1	0.036	0.27
L842815		300	74.1	1.8	<0.002	0.03	8.57	0.8	5	<0.2	51.5	<0.05	0.12	0.3	0.005	0.27
L842816		2120	102.0	21.2	<0.002	0.21	14.90	5.4	2	0.6	643	0.18	0.07	5.8	0.084	0.73
L842817		220	24.8	11.1	<0.002	0.10	3.36	2.6	3	0.7	13.9	0.09	0.07	1.5	0.047	9.97
L842818		460	77.4	2.3	<0.002	0.03	20.2	0.6	4	0.4	102.5	<0.05	0.10	0.3	0.012	1.94
L842819		180	8.3	0.2	<0.002	0.03	3.78	1.3	2	<0.2	60.4	<0.05	<0.05	0.2	<0.005	0.51
L842820		1690	56.8	5.2	<0.002	0.08	460	4.7	5	3.5	6.7	<0.05	0.19	0.5	0.011	6.61
L842821		200	13.4	1.9	<0.002	0.28	3.61	1.5	3	<0.2	243	<0.05	0.05	0.2	<0.005	65.4
L842822		400	9.6	5.7	0.004	0.01	0.78	1.1	2	<0.2	206	<0.05	0.06	0.4	0.013	0.22
L842823		30	4.0	0.6	<0.002	<0.01	0.20	0.3	2	<0.2	159.0	<0.05	0.05	<0.2	<0.005	0.09
L842824		80	3.3	3.2	0.003	0.02	0.14	0.5	1	<0.2	153.0	<0.05	0.05	0.3	0.010	0.07
L842825		840	41.7	42.8	0.002	0.16	12.00	5.2	3	0.7	141.5	0.24	0.08	4.4	0.123	1.75
L842826		110	3.1	4.9	0.002	0.11	0.23	0.6	2	<0.2	263	<0.05	0.05	0.5	0.011	0.91
L842827		330	7.2	23.0	<0.002	0.87	0.44	2.9	2	0.4	1400	0.17	<0.05	2.9	0.069	0.34
L842828		320	5.7	33.9	<0.002	0.04	0.15	2.9	2	0.4	1070	0.22	<0.05	5.2	0.092	0.18
L842829		430	9.4	93.3	<0.002	0.05	0.19	7.1	3	1.4	242	0.58	<0.05	9.5	0.229	0.38
L842830		570	10.8	57.5	<0.002	0.01	0.43	4.9	2	0.8	505	0.41	<0.05	6.4	0.157	0.26
L842831		180	8.4	15.1	<0.002	0.02	0.14	1.4	2	0.2	1010	0.11	<0.05	2.3	0.041	0.08
L842832		120	39.9	81.9	<0.002	3.78	1.69	8.6	5	1.7	70.7	0.72	0.07	8.8	0.419	1.04
L842833		150	52.7	20.6	<0.002	3.17	0.99	3.9	3	0.5	48.9	0.28	<0.05	3.5	0.110	0.29
L842834		200	2.9	28.7	<0.002	0.02	76.4	3.6	1	0.5	97.8	0.10	<0.05	2.1	0.097	0.18
L842835		810	24.6	158.0	<0.002	0.02	46.4	33.6	2	4.1	801	1.20	0.09	16.1	0.881	1.31
L842836		170	5.8	32.5	<0.002	0.03	3.49	5.6	2	0.5	406	0.22	<0.05	3.1	0.145	0.16
L842837		250	2.7	27.6	<0.002	0.01	5.99	7.8	1	0.5	362	0.21	<0.05	3.8	0.232	0.14
L842838		160	3.1	3.8	<0.002	0.99	145.0	2.1	1	0.2	219	0.06	<0.05	1.3	0.042	0.06
L842839		760	2.3	2.2	<0.002	0.15	0.62	1.0	2	<0.2	1360	<0.05	<0.05	0.4	0.006	0.04
L842840		700	315	49.7	<0.002	0.12	14.30	8.0	9	1.1	42.7	0.17	0.26	6.5	0.120	0.41
L842841		140	2.7	6.9	<0.002	0.05	16.35	1.6	1	<0.2	720	<0.05	<0.05	0.7	0.020	0.18





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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001
L842814		8.0	39	0.2	20.3	157	13.4				
L842815		0.6	16	0.2	17.7	636	2.1				
L842816		4.3	134	0.7	10.1	1780	33.2				
L842817		7.4	24	0.5	9.5	262	14.1				
L842818		3.5	59	0.5	5.9	461	9.3				
L842819		4.6	5	0.1	17.3	4490	2.5				
L842820		10.3	854	4.7	70.6	9700	20.8				
L842821		4.2	16	8.2	5.0	3400	4.1				
L842822		17.7	11	0.7	5.1	86	3.3				
L842823		1.7	1	0.1	0.8	14	0.8				
L842824		2.6	2	0.2	1.6	10	2.6				
L842825		10.4	167	3.8	36.6	2600	35.8			3.68	
L842826		6.0	14	0.1	4.3	12	5.7				
L842827		8.3	22	0.3	7.3	23	30.3				
L842828		5.0	33	0.5	14.8	22	122.0				
L842829		2.0	36	1.0	17.7	80	75.0				
L842830		2.8	32	0.6	16.4	68	63.6				
L842831		2.5	7	0.2	5.9	14	58.4				
L842832		2.1	49	1.6	23.9	19	102.5				
L842833		0.8	21	0.5	9.2	93	27.7				
L842834		0.6	35	0.8	2.8	42	20.1				
L842835		3.6	257	5.9	17.9	98	166.5				
L842836		0.7	37	0.5	6.5	27	30.2				
L842837		0.6	60	1.6	11.8	23	38.7				
L842838		0.5	11	0.6	3.3	9	26.0			2.24	
L842839		1.7	2	0.1	6.2	171	13.4				
L842840		3.0	42	0.3	15.9	99	53.5				
L842841		1.3	4	0.3	10.9	30	21.1				



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Project: ATAC- Regional Area A&B

**CERTIFICATE OF ANALYSIS WH12156005**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown.
ME- MS61	Interference: Mo> 400ppm on ICP- MS Cd,ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12157364**

Project: ATAC- Regional Area B&D (Dale)  
 P.O. No.: Silt 12  
 This report is for 55 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area B&D (Dale)

**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027463		0.24	0.003	0.37	1.08	13.4	<0.2	<10	350	0.79	0.29	0.70	0.58	10.85	7.3	18
DD027464		0.31	0.004	0.58	0.81	14.9	<0.2	<10	390	0.69	0.25	0.47	0.61	9.34	7.9	16
DD027465		0.30	0.004	0.52	0.59	13.5	<0.2	<10	360	0.54	0.22	0.69	0.94	6.96	5.6	11
DD027466		0.42	0.003	0.44	0.83	15.1	<0.2	<10	400	0.72	0.23	0.86	0.74	9.34	6.3	16
DD027467		0.39	0.003	0.29	0.66	14.1	<0.2	<10	330	0.57	0.18	0.93	0.73	8.28	7.1	12
DD027468		0.40	0.004	0.24	0.64	11.6	<0.2	<10	290	0.50	0.17	0.86	0.82	8.86	7.0	13
DD027469		0.33	0.003	0.36	0.63	19.5	<0.2	<10	250	0.62	0.20	0.96	0.97	8.93	7.2	13
DD027470		0.32	0.009	0.30	0.59	17.1	<0.2	<10	240	0.57	0.19	0.83	0.81	8.80	6.6	13
DD027203		0.42	0.005	0.33	0.55	15.4	<0.2	<10	270	0.46	0.19	0.78	0.65	8.33	6.0	11
DD027204		0.33	0.002	0.09	1.07	11.1	<0.2	10	260	0.80	0.24	1.29	0.33	18.55	6.3	22
DD027205		0.39	0.002	0.10	1.14	11.0	<0.2	10	190	0.94	0.26	3.79	0.22	17.70	8.8	20
DD027206		0.28	0.002	0.14	0.62	7.3	<0.2	10	130	0.76	0.28	1.38	0.15	13.90	8.1	13
DD027207		0.36	0.002	0.09	0.62	7.0	<0.2	10	190	0.74	0.24	2.75	0.24	14.50	7.4	11
DD027208		0.30	0.002	0.10	0.76	8.0	<0.2	<10	140	0.88	0.28	1.33	0.28	19.65	9.5	15
DD027209		0.35	0.002	0.08	0.54	12.5	<0.2	10	130	0.62	0.22	4.41	0.99	13.25	6.3	9
DD027210		0.20	0.001	0.12	0.59	11.1	<0.2	10	150	0.77	0.26	2.64	0.99	15.05	7.0	10
DD027211		0.23	0.002	0.09	0.66	7.7	<0.2	10	240	0.67	0.17	8.76	0.39	11.90	6.3	10
DD027212		0.40	0.001	0.15	1.03	152.5	<0.2	<10	170	1.07	0.33	1.09	0.41	16.30	11.8	18
DD027213		0.25	0.002	0.14	0.99	101.0	<0.2	<10	160	1.03	0.28	1.63	0.58	15.15	11.1	16
DD027214		0.32	0.002	0.14	0.93	161.0	<0.2	<10	150	0.97	0.31	1.27	0.34	15.70	11.1	16
DD027215		0.35	0.002	0.15	0.98	201	<0.2	10	170	0.98	0.25	1.98	0.74	15.40	10.7	16
DD027216		0.30	0.002	0.12	1.19	189.5	<0.2	<10	150	0.98	0.27	1.35	0.71	15.00	11.6	19
DD027217		0.40	0.006	0.17	1.34	363	<0.2	<10	150	0.78	0.22	3.40	0.70	18.25	13.3	20
DD027218		0.40	0.002	0.13	1.20	218	<0.2	<10	110	0.79	0.25	2.92	0.53	16.30	12.7	19
DD027219		0.37	0.002	0.15	1.08	215	<0.2	<10	80	0.68	0.19	4.62	0.55	14.50	12.4	17
DD027220		0.41	0.002	0.17	1.24	230	<0.2	<10	110	0.86	0.24	3.23	0.57	17.30	14.7	19
DD027221		0.38	0.003	0.11	1.32	142.5	<0.2	<10	120	0.82	0.24	2.05	0.48	18.35	15.4	21
DD027222		0.30	0.003	0.11	1.46	115.5	<0.2	<10	160	0.90	0.27	1.89	0.39	17.35	13.4	22
DD027223		0.33	0.002	0.12	1.37	150.0	<0.2	<10	130	0.88	0.25	2.08	0.43	16.45	16.2	20
DD027224		0.36	0.004	0.12	1.41	143.0	<0.2	<10	120	0.88	0.25	1.41	0.36	17.65	15.4	22
DD027225		0.38	0.003	0.14	1.37	145.5	<0.2	10	160	0.85	0.27	1.95	0.53	16.90	15.1	21
ZZ66438		0.34	0.002	0.14	1.52	16.0	<0.2	<10	310	0.92	0.31	0.41	0.24	11.10	10.5	24
ZZ66439		0.20	0.003	0.26	1.12	83.2	<0.2	<10	200	1.01	0.18	8.55	2.06	15.05	8.2	20
ZZ66440		0.16	0.004	0.20	1.37	25.3	<0.2	<10	290	0.83	0.23	1.66	0.72	14.55	12.1	21
ZZ66441		0.18	0.003	0.28	1.10	50.9	<0.2	<10	450	0.86	0.23	1.72	0.91	13.65	11.9	19
ZZ66442		0.20	0.004	0.30	1.29	37.4	<0.2	<10	420	0.68	0.21	1.91	0.79	19.75	13.6	23
ZZ66443		0.13	0.005	0.31	1.28	39.2	<0.2	<10	380	0.81	0.22	1.77	0.78	14.65	10.9	22
ZZ66444		0.25	0.004	0.29	1.44	45.6	<0.2	<10	390	0.87	0.24	1.31	0.73	18.30	14.5	24
ZZ66445		0.17	0.002	0.13	0.72	9.2	<0.2	10	270	0.69	0.19	2.99	0.82	12.10	6.2	11
ZZ66446		0.27	0.004	0.13	0.76	11.7	<0.2	20	320	0.75	0.20	2.35	0.67	13.00	7.9	13

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**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD027463		1.14	34.3	2.33	3.24	<0.05	0.06	0.19	0.039	0.08	5.2	12.7	0.26	116	2.23	0.01
DD027464		0.85	31.6	2.37	2.58	<0.05	0.03	0.23	0.036	0.08	4.6	9.9	0.20	239	8.37	0.01
DD027465		0.68	29.6	2.15	1.88	<0.05	0.05	0.22	0.029	0.07	3.5	7.7	0.17	226	8.29	0.01
DD027466		0.98	34.8	2.44	2.53	<0.05	0.06	0.20	0.034	0.08	5.1	11.0	0.26	187	6.11	0.01
DD027467		0.67	25.1	2.26	2.13	<0.05	0.05	0.23	0.029	0.06	4.2	9.7	0.29	300	5.03	<0.01
DD027468		0.65	22.9	2.11	1.98	<0.05	0.04	0.13	0.022	0.06	4.5	8.8	0.33	195	4.41	0.01
DD027469		0.77	32.9	2.41	1.92	<0.05	0.07	0.20	0.031	0.06	4.5	9.4	0.30	543	7.96	0.01
DD027470		0.71	30.0	2.15	1.90	<0.05	0.05	0.17	0.027	0.06	4.4	9.0	0.28	261	6.14	0.01
DD027203		0.70	28.9	1.94	1.71	<0.05	0.05	0.20	0.024	0.06	4.2	8.1	0.24	238	6.31	0.01
DD027204		2.56	25.6	2.46	3.05	0.06	0.08	0.20	0.026	0.09	9.9	19.2	0.71	210	0.60	0.01
DD027205		2.94	30.0	2.73	3.30	0.05	0.07	0.27	0.030	0.11	8.9	23.5	1.35	305	0.56	0.01
DD027206		3.76	28.6	2.97	1.73	<0.05	0.06	0.13	0.029	0.08	6.4	10.8	0.40	293	0.76	0.01
DD027207		1.03	19.6	2.33	1.73	0.05	0.05	0.30	0.024	0.09	6.7	12.2	0.71	339	0.56	0.01
DD027208		1.07	28.0	2.75	2.24	0.05	0.07	0.20	0.030	0.09	8.3	15.8	0.61	277	0.76	0.01
DD027209		0.63	16.8	2.32	1.50	<0.05	0.05	3.42	0.024	0.08	6.0	7.8	1.26	360	0.43	0.01
DD027210		0.80	21.8	2.55	1.66	<0.05	0.05	1.00	0.028	0.09	6.9	8.7	0.74	294	0.48	0.01
DD027211		1.01	20.4	1.84	2.00	<0.05	0.04	0.38	0.025	0.09	5.7	10.4	0.47	244	0.44	0.01
DD027212		4.72	32.6	3.60	3.29	0.05	0.07	0.38	0.036	0.12	7.9	16.9	0.64	703	0.62	0.01
DD027213		9.34	28.2	3.11	3.05	0.05	0.06	0.45	0.031	0.11	7.3	15.5	0.90	434	0.52	0.01
DD027214		9.25	31.3	3.43	2.73	0.05	0.07	0.45	0.029	0.11	7.5	14.1	0.73	479	0.51	0.01
DD027215		10.95	29.9	3.12	2.98	<0.05	0.06	0.43	0.032	0.11	7.4	15.1	1.04	493	0.53	0.01
DD027216		6.20	33.7	3.47	3.54	0.05	0.07	0.35	0.029	0.10	7.1	18.9	0.60	413	0.59	0.01
DD027217		1.96	41.3	4.91	3.79	0.05	0.07	1.10	0.032	0.07	8.8	20.3	2.18	1120	0.64	0.01
DD027218		3.71	38.6	3.73	3.58	0.05	0.07	0.46	0.028	0.08	7.3	21.3	1.91	500	0.52	0.01
DD027219		2.72	31.2	3.58	3.04	<0.05	0.07	0.78	0.024	0.06	6.3	19.0	3.00	593	0.45	0.01
DD027220		3.10	46.3	3.94	3.85	0.05	0.06	0.77	0.033	0.09	8.0	23.5	2.11	665	0.50	0.01
DD027221		2.46	45.8	3.72	4.00	0.05	0.07	0.36	0.032	0.09	8.1	24.5	1.45	711	0.49	0.01
DD027222		2.35	45.2	3.70	4.14	0.06	0.08	0.29	0.034	0.10	8.2	27.5	1.22	567	0.52	0.01
DD027223		2.47	52.5	4.02	3.97	0.05	0.07	0.39	0.029	0.09	7.7	25.7	1.40	635	0.86	0.01
DD027224		2.41	48.2	4.26	3.99	0.05	0.07	0.38	0.032	0.10	7.9	25.4	1.08	357	0.60	0.01
DD027225		2.76	48.5	4.04	3.90	0.05	0.08	0.46	0.034	0.10	7.9	25.1	1.24	637	0.58	0.02
ZZ66438		1.76	23.8	3.44	4.64	<0.05	0.06	0.06	0.041	0.08	5.2	29.5	0.41	320	3.82	0.01
ZZ66439		1.35	33.0	2.31	2.63	0.05	0.05	0.75	0.027	0.08	12.2	14.5	0.28	539	1.13	0.01
ZZ66440		1.42	46.9	3.07	3.72	0.05	0.08	0.23	0.031	0.09	7.5	20.7	0.55	500	1.02	0.03
ZZ66441		1.19	47.3	2.95	3.17	<0.05	0.06	0.23	0.031	0.08	7.8	16.1	0.41	478	1.36	0.01
ZZ66442		1.22	48.4	3.25	3.62	0.06	0.07	0.51	0.024	0.08	9.8	19.1	1.02	577	1.65	0.02
ZZ66443		1.25	48.7	2.86	3.52	<0.05	0.06	0.32	0.028	0.09	8.1	19.6	0.52	436	1.35	0.02
ZZ66444		1.08	49.8	3.40	4.15	0.05	0.07	0.31	0.033	0.08	9.6	23.0	0.62	536	1.46	0.01
ZZ66445		0.56	23.2	2.01	1.85	<0.05	0.05	0.51	0.022	0.08	6.6	7.3	0.42	482	0.63	0.01
ZZ66446		0.81	29.3	2.31	2.17	<0.05	0.07	0.57	0.026	0.10	6.6	10.0	0.54	327	0.74	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B&D (Dale)

**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD027463		0.22	27.5	760	18.2	9.8	0.006	0.07	0.70	4.6	2.4	0.5	38.1	<0.01	0.03	1.8
DD027464		0.15	28.1	610	16.9	7.6	0.005	0.02	1.11	3.7	1.9	0.4	32.3	<0.01	0.06	1.7
DD027465		0.13	27.2	530	13.1	6.5	0.006	0.06	1.37	2.8	2.7	0.4	50.1	<0.01	0.08	1.2
DD027466		0.20	27.4	670	14.0	7.6	0.008	0.06	1.31	3.7	2.2	0.4	54.1	<0.01	0.06	1.4
DD027467		0.17	24.9	550	13.2	5.8	0.005	0.04	1.07	2.7	1.9	0.3	48.9	<0.01	0.08	1.6
DD027468		0.15	23.6	620	11.8	5.1	0.003	0.05	1.03	2.8	1.6	0.3	43.9	<0.01	0.05	1.7
DD027469		0.14	29.0	620	14.7	5.9	0.007	0.09	1.24	3.5	2.8	0.4	57.3	<0.01	0.09	1.6
DD027470		0.13	26.2	560	12.7	5.3	0.009	0.07	1.10	3.2	2.3	0.4	51.9	<0.01	0.08	1.6
DD027203		0.13	25.0	530	13.0	5.0	0.004	0.07	1.08	3.0	2.8	0.4	50.0	<0.01	0.10	1.6
DD027204		0.36	23.4	850	14.9	17.9	0.001	0.10	0.40	3.3	2.3	0.4	117.0	<0.01	0.05	1.7
DD027205		0.32	25.8	660	18.8	15.4	0.001	0.07	0.34	4.2	1.7	0.4	146.5	<0.01	0.04	2.5
DD027206		0.18	25.6	490	22.0	11.7	0.004	0.07	0.33	4.0	1.9	0.4	104.5	<0.01	0.04	2.5
DD027207		0.21	18.7	540	17.4	11.6	0.003	0.08	0.24	3.4	2.7	0.3	102.0	<0.01	0.03	2.7
DD027208		0.23	25.8	520	21.2	11.2	0.001	0.06	0.27	4.7	2.1	0.4	82.9	<0.01	0.06	3.1
DD027209		0.16	16.1	460	21.9	9.5	0.002	0.07	0.23	3.3	1.4	0.3	102.0	<0.01	0.02	2.5
DD027210		0.19	19.3	510	24.7	11.0	0.002	0.09	0.24	3.9	2.0	0.4	92.9	<0.01	0.04	2.5
DD027211		0.25	16.4	460	13.2	12.1	<0.001	0.13	0.27	3.1	1.6	0.4	147.5	<0.01	0.03	1.5
DD027212		0.26	23.2	530	28.1	15.2	<0.001	0.06	0.25	5.6	1.3	0.5	36.4	<0.01	0.05	3.2
DD027213		0.25	21.4	560	24.4	15.8	0.002	0.08	0.24	5.2	1.4	0.4	46.6	<0.01	0.06	2.8
DD027214		0.23	21.7	560	26.4	13.6	<0.001	0.06	0.28	5.3	1.2	0.4	41.0	<0.01	0.06	3.0
DD027215		0.24	21.8	640	22.9	15.0	<0.001	0.09	0.27	5.2	1.6	0.4	54.9	<0.01	0.04	2.3
DD027216		0.24	22.9	660	23.9	15.0	<0.001	0.10	0.28	5.7	1.7	0.4	54.7	<0.01	0.05	2.1
DD027217		0.25	25.6	670	44.2	8.1	<0.001	0.06	0.38	6.3	1.0	0.4	46.5	<0.01	0.06	2.2
DD027218		0.17	24.4	580	36.0	11.6	<0.001	0.07	0.33	5.8	1.3	0.3	43.4	<0.01	0.08	2.5
DD027219		0.12	21.9	580	50.7	7.1	0.001	0.06	0.40	4.9	1.0	0.3	42.5	<0.01	0.07	2.4
DD027220		0.18	27.0	630	45.7	9.9	<0.001	0.07	0.45	6.5	0.9	0.4	50.7	<0.01	0.05	2.7
DD027221		0.16	27.7	590	31.4	10.1	0.002	0.06	0.33	6.1	1.2	0.3	42.6	<0.01	0.07	2.8
DD027222		0.17	26.9	640	24.6	12.3	<0.001	0.07	0.35	5.6	1.2	0.3	59.0	<0.01	0.08	2.5
DD027223		0.16	30.6	640	29.1	10.6	<0.001	0.10	0.43	6.4	1.8	0.4	54.8	<0.01	0.09	2.5
DD027224		0.17	29.8	600	25.2	10.4	0.005	0.08	0.31	6.8	1.8	0.4	43.8	<0.01	0.07	3.0
DD027225		0.17	29.0	690	29.8	11.6	0.002	0.11	0.39	6.5	1.4	0.4	58.8	<0.01	0.06	2.6
ZZ66438		0.24	35.5	740	17.6	12.9	0.001	0.04	0.43	4.4	1.3	0.5	30.2	<0.01	0.06	3.0
ZZ66439		0.22	53.9	1060	14.7	9.2	<0.001	0.08	0.59	3.8	1.7	0.3	89.6	<0.01	0.07	1.4
ZZ66440		0.16	38.8	740	14.7	8.8	<0.001	0.09	0.53	4.8	1.2	0.3	42.2	<0.01	0.06	1.7
ZZ66441		0.18	39.6	820	15.5	6.8	0.002	0.06	0.77	4.7	1.7	0.3	43.0	<0.01	0.07	1.8
ZZ66442		0.31	36.2	870	18.9	5.7	0.001	0.04	0.83	5.2	0.8	0.3	47.8	<0.01	0.08	3.2
ZZ66443		0.24	35.4	880	15.9	8.7	0.004	0.09	0.70	4.8	1.7	0.3	46.2	<0.01	0.08	1.7
ZZ66444		0.25	39.2	900	18.4	7.3	0.002	0.06	0.61	5.4	1.8	0.3	47.0	<0.01	0.06	2.1
ZZ66445		0.25	17.8	750	16.1	9.1	0.001	0.15	0.46	2.0	1.2	0.3	103.0	<0.01	0.04	0.7
ZZ66446		0.24	23.5	640	16.3	10.4	<0.001	0.12	0.51	3.1	1.9	0.4	115.0	<0.01	0.03	1.2





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**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027463		<0.005	0.28	0.90	40	0.05	8.40	93	1.8
DD027464		<0.005	0.43	1.52	47	0.07	7.77	113	1.3
DD027465		<0.005	0.41	1.04	42	0.05	6.89	104	2.1
DD027466		<0.005	0.38	1.68	45	<0.05	8.63	110	1.8
DD027467		<0.005	0.31	0.67	40	<0.05	6.61	112	1.5
DD027468		<0.005	0.28	0.60	41	0.05	6.37	101	1.5
DD027469		<0.005	0.43	1.18	50	0.10	8.39	104	2.2
DD027470		<0.005	0.44	0.89	46	0.07	7.72	92	1.8
DD027203		<0.005	0.42	1.13	44	0.05	7.65	91	1.9
DD027204		0.009	0.23	3.14	21	0.06	9.65	120	2.2
DD027205		0.007	0.36	2.20	20	0.05	9.56	104	2.4
DD027206		<0.005	0.12	2.23	14	<0.05	10.40	97	1.9
DD027207		<0.005	0.12	1.37	13	<0.05	7.52	91	1.7
DD027208		0.005	0.09	2.37	18	0.08	9.75	101	2.1
DD027209		<0.005	0.13	1.04	13	<0.05	7.03	571	1.4
DD027210		<0.005	0.15	1.21	14	<0.05	8.45	474	1.6
DD027211		0.005	0.11	0.70	18	<0.05	6.39	137	1.5
DD027212		0.005	0.60	1.15	25	0.07	11.25	162	1.9
DD027213		0.005	0.46	0.92	22	0.09	10.40	152	1.7
DD027214		0.005	0.63	1.09	23	0.08	10.55	136	1.8
DD027215		0.005	0.68	0.96	23	0.06	10.65	224	1.8
DD027216		0.005	0.76	1.38	29	0.09	9.70	186	2.0
DD027217		0.007	3.74	1.00	37	0.12	10.20	386	1.4
DD027218		0.005	1.24	0.66	31	0.07	8.91	219	1.8
DD027219		0.005	1.50	0.58	29	0.05	7.59	260	1.6
DD027220		0.005	1.64	0.77	32	0.07	9.77	236	1.9
DD027221		0.005	0.95	0.87	33	<0.05	9.84	178	2.1
DD027222		0.005	0.62	0.75	33	<0.05	9.21	152	2.4
DD027223		0.005	0.77	0.72	34	<0.05	9.46	178	2.2
DD027224		0.005	0.62	0.86	35	0.05	9.79	144	2.3
DD027225		0.005	0.78	0.76	33	0.05	9.91	169	2.3
ZZ66438		<0.005	0.20	1.01	34	0.06	7.42	106	1.4
ZZ66439		<0.005	0.26	1.54	29	0.12	35.9	168	1.4
ZZ66440		<0.005	0.13	1.05	36	<0.05	12.45	131	2.1
ZZ66441		<0.005	0.16	1.45	38	0.15	14.75	125	1.8
ZZ66442		0.011	0.16	0.85	46	0.08	10.90	130	2.3
ZZ66443		<0.005	0.18	1.34	39	0.05	14.10	118	2.1
ZZ66444		0.005	0.16	1.17	46	0.07	14.70	135	2.0
ZZ66445		0.005	0.12	3.13	20	<0.05	8.76	204	1.3
ZZ66446		<0.005	0.21	1.68	21	<0.05	8.23	226	1.6



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**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66447		0.18	0.002	0.14	0.92	10.1	<0.2	10	300	0.83	0.19	3.48	1.03	18.10	9.5	15
ZZ66448		0.28	0.002	0.14	0.83	12.0	<0.2	10	230	0.95	0.28	1.43	0.62	19.45	10.6	15
ZZ66449		0.15	0.003	0.12	1.50	11.3	<0.2	<10	200	1.46	0.35	0.86	0.13	18.30	11.1	24
ZZ66450		0.26	0.003	0.13	1.55	15.9	<0.2	<10	150	1.07	0.30	0.84	0.32	17.00	13.6	24
ZZ66451		0.28	0.004	0.12	1.42	31.7	<0.2	10	100	0.81	0.27	1.20	0.26	17.75	16.9	24
ZZ66452		0.22	0.008	0.15	1.63	15.3	<0.2	<10	190	0.96	0.25	1.03	0.22	19.25	19.0	28
ZZ66453		0.25	0.004	0.09	1.37	41.0	<0.2	<10	80	0.79	0.27	0.54	0.39	21.6	21.4	25
ZZ66454		0.24	0.005	0.13	1.42	27.8	<0.2	<10	170	0.72	0.23	1.17	0.39	16.45	16.0	24
ZZ66455		0.24	0.006	0.63	1.80	10.1	<0.2	<10	240	0.96	0.24	1.14	0.33	19.30	10.9	28
ZZ66456		0.21	0.003	0.27	1.53	13.6	<0.2	<10	230	0.93	0.24	1.53	0.30	14.35	16.9	23
ZZ66457		0.16	0.005	0.21	1.80	11.1	<0.2	<10	130	0.96	0.32	0.10	0.43	15.90	20.5	33
ZZ66458		0.30	0.007	0.17	1.63	87.6	<0.2	<10	240	0.86	0.25	1.20	0.39	19.35	19.2	28
ZZ66459		0.19	0.004	0.35	1.33	124.0	<0.2	<10	200	0.96	0.29	1.64	0.40	19.40	16.9	21
ZZ66460		0.13	0.007	0.19	0.90	63.2	<0.2	10	170	0.79	0.26	2.39	0.29	12.20	15.2	12
ZZ66321		0.30	0.005	0.47	0.64	320	<0.2	<10	390	0.77	0.20	4.15	3.36	15.95	9.8	13

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Project: ATAC- Regional Area B&D (Dale)

**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66447		1.43	28.7	2.55	2.79	<0.05	0.06	0.34	0.028	0.10	8.5	13.7	0.76	347	0.86	0.02
ZZ66448		0.91	33.4	1.76	2.72	0.05	0.07	0.68	0.034	0.12	9.3	12.8	0.43	131	0.40	0.01
ZZ66449		1.10	37.6	3.58	4.78	0.07	0.11	0.11	0.042	0.08	8.3	30.2	0.49	335	0.99	0.01
ZZ66450		1.24	44.7	3.93	4.75	0.06	0.08	0.12	0.044	0.09	7.8	38.8	0.62	460	0.79	0.01
ZZ66451		1.92	65.2	4.33	4.25	0.07	0.09	0.18	0.036	0.09	7.9	31.2	0.91	431	0.70	0.01
ZZ66452		3.62	84.0	4.22	5.32	0.07	0.08	0.40	0.042	0.08	8.5	34.6	0.91	570	0.81	0.01
ZZ66453		1.72	67.0	4.35	4.50	0.08	0.08	0.16	0.035	0.07	9.9	32.7	0.76	663	0.77	0.01
ZZ66454		2.06	58.3	3.63	4.49	0.05	0.06	0.18	0.034	0.07	7.5	29.7	0.69	694	0.93	0.01
ZZ66455		1.26	87.5	3.63	5.85	0.06	0.07	0.22	0.045	0.08	10.0	25.8	0.72	438	0.91	<0.01
ZZ66456		1.39	98.5	3.67	4.71	0.07	0.08	0.19	0.039	0.08	7.2	21.3	0.67	621	1.04	0.01
ZZ66457		9.51	77.2	5.28	7.90	0.08	0.04	0.11	0.063	0.07	6.5	24.6	0.46	1140	1.31	<0.01
ZZ66458		7.65	91.0	4.43	5.36	0.08	0.07	0.56	0.044	0.08	7.3	27.8	0.88	827	0.80	0.01
ZZ66459		2.43	52.4	3.72	3.95	0.08	0.09	0.59	0.045	0.09	9.4	16.4	0.37	666	1.21	0.01
ZZ66460		1.89	46.5	2.82	2.37	0.06	0.11	0.45	0.036	0.08	6.2	7.6	0.18	308	1.44	0.01
ZZ66321		3.65	41.6	2.64	2.02	0.06	0.06	0.56	0.026	0.09	8.4	8.9	1.42	435	7.13	0.01

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Project: ATAC- Regional Area B&D (Dale)

**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66447		0.30	27.2	710	16.1	12.1	<0.001	0.12	0.46	3.8	1.8	0.4	108.0	<0.01	0.04	1.6
ZZ66448		0.30	30.1	490	24.1	9.6	0.001	0.16	0.52	5.6	1.3	0.5	44.5	<0.01	0.03	3.4
ZZ66449		0.31	29.7	940	18.2	10.5	<0.001	0.08	0.31	6.1	1.0	0.6	37.2	<0.01	0.05	2.0
ZZ66450		0.30	28.7	760	18.3	9.9	0.001	0.07	0.39	6.4	1.5	0.5	41.7	<0.01	0.05	1.6
ZZ66451		0.24	30.5	700	17.9	8.7	0.002	0.08	0.47	7.5	1.7	0.3	47.7	<0.01	0.09	2.2
ZZ66452		0.28	35.0	660	13.5	7.1	<0.001	0.06	0.48	11.4	1.6	0.4	33.3	<0.01	0.11	1.5
ZZ66453		0.26	34.9	560	17.9	6.7	<0.001	0.04	0.52	8.0	1.0	0.3	27.0	<0.01	0.09	2.9
ZZ66454		0.35	27.6	720	14.5	11.4	<0.001	0.08	0.60	7.9	2.7	0.4	65.5	<0.01	0.07	1.2
ZZ66455		0.39	28.8	1300	12.1	11.3	0.001	0.12	0.43	6.6	2.3	0.5	39.2	<0.01	0.10	1.0
ZZ66456		0.33	28.5	750	14.1	8.4	0.001	0.09	0.50	7.7	1.9	0.4	38.1	<0.01	0.10	1.0
ZZ66457		0.54	21.2	1070	16.6	13.0	<0.001	0.05	0.36	8.7	0.8	0.6	7.8	<0.01	0.15	1.2
ZZ66458		0.28	34.3	660	14.7	10.3	<0.001	0.08	0.92	10.7	1.7	0.4	44.2	<0.01	0.11	1.1
ZZ66459		0.35	30.4	1060	39.5	11.5	0.001	0.11	1.15	5.7	1.9	0.5	102.0	<0.01	0.08	0.8
ZZ66460		0.22	27.6	1220	29.0	8.2	0.002	0.22	0.93	3.4	2.2	0.4	154.5	<0.01	0.07	0.6
ZZ66321		0.21	56.2	850	48.4	8.2	0.003	0.06	2.66	4.2	3.2	0.4	78.1	<0.01	0.06	3.7

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**CERTIFICATE OF ANALYSIS WH12157364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66447		0.005	0.20	1.27	27	<0.05	8.64	255	1.7
ZZ66448		<0.005	0.15	2.16	27	0.06	11.60	207	2.6
ZZ66449		<0.005	0.14	1.86	28	0.05	15.65	87	2.5
ZZ66450		0.006	0.10	0.86	35	0.06	12.30	109	1.7
ZZ66451		0.007	0.08	0.54	40	0.05	10.40	98	2.1
ZZ66452		0.008	0.09	0.60	52	0.05	14.25	80	1.8
ZZ66453		0.008	0.08	0.61	43	0.05	9.90	96	2.1
ZZ66454		0.010	0.08	0.74	41	0.07	10.45	93	1.3
ZZ66455		0.011	0.08	1.80	48	0.09	14.20	91	1.7
ZZ66456		0.007	0.08	0.56	43	0.06	14.65	66	1.7
ZZ66457		0.013	0.14	0.51	78	0.10	8.15	56	0.7
ZZ66458		0.008	0.19	0.97	53	0.06	15.25	77	1.4
ZZ66459		0.006	0.38	3.14	36	0.08	23.5	129	1.8
ZZ66460		<0.005	0.32	7.78	22	0.06	21.2	68	2.3
ZZ66321		0.006	0.66	1.79	77	0.12	16.80	365	2.4

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**CERTIFICATE OF ANALYSIS WH12157364**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12157365**

Project: ATAC- Regional Area D MooseLake  
 P.O. No.: Soil 15  
 This report is for 143 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
EXTRA- 01	Extra Sample received in Shipment
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56509		0.34	0.003	0.72	1.41	129.5	<0.2	<10	150	1.17	0.20	5.95	2.70	28.3	7.9	26
ZZ56510		0.28	0.001	0.19	1.91	580	<0.2	<10	220	0.68	0.29	0.60	1.37	26.9	8.9	29
ZZ56511		0.35	0.002	0.67	1.52	130.5	<0.2	<10	110	1.30	0.18	7.73	3.04	35.2	9.8	25
ZZ56512		0.31	0.018	0.47	1.34	8200	<0.2	<10	440	1.19	0.19	6.24	4.66	22.1	38.7	22
ZZ56513		0.32	0.003	0.47	0.96	145	<0.2	<10	130	0.84	0.12	12.10	2.92	16.85	6.2	16
ZZ56514		0.34	0.006	1.02	0.51	178	<0.2	<10	100	0.51	0.07	15.20	3.24	12.55	4.7	11
ZZ56515		0.32	0.004	0.59	1.19	148.5	<0.2	10	110	0.94	0.15	9.17	1.82	17.25	7.6	20
ZZ56516		0.27	0.002	0.78	1.46	149.0	<0.2	<10	190	0.84	0.17	7.70	3.94	23.8	7.3	23
ZZ56517		0.28	0.004	1.26	1.30	196	<0.2	10	90	0.90	0.12	11.05	3.34	16.20	6.5	19
ZZ56518		0.36	0.006	0.78	0.89	212	<0.2	<10	90	0.76	0.12	11.85	1.46	12.90	7.0	16
ZZ56519		0.32	0.006	0.84	0.70	215	<0.2	<10	60	0.63	0.10	12.65	1.78	10.25	6.3	13
ZZ56520		0.30	0.003	1.26	0.77	138	<0.2	<10	70	0.62	0.11	12.70	1.35	12.00	5.7	13
ZZ56521		0.32	0.008	0.55	0.34	96	<0.2	<10	40	0.45	0.04	17.05	0.99	6.96	3.4	7
ZZ56522		0.33	0.004	0.82	0.80	265	<0.2	<10	60	0.93	0.10	12.60	2.86	11.95	5.8	14
ZZ56523		0.37	0.002	0.20	1.61	227	<0.2	<10	200	1.04	0.25	2.41	1.03	28.2	10.9	26
ZZ56524		0.31	0.003	0.53	0.85	181.0	<0.2	<10	160	0.91	0.14	7.80	2.05	17.00	7.5	16
ZZ56525		0.30	0.003	0.42	1.31	152.0	<0.2	<10	240	1.06	0.20	3.65	1.51	19.55	8.9	23
ZZ56526		0.37	0.005	0.90	1.42	137.5	<0.2	<10	90	1.18	0.18	8.21	2.07	31.8	8.5	24
ZZ56527		0.33	0.005	0.75	1.36	203	<0.2	<10	240	1.43	0.17	7.24	3.30	22.6	8.5	21
ZZ56528		0.41	0.005	0.54	1.19	319	<0.2	<10	560	1.23	0.19	5.20	1.74	27.2	8.3	20
ZZ56529		0.29	0.003	0.43	1.35	257	<0.2	<10	230	1.14	0.25	1.53	3.65	34.4	11.6	30
ZZ56530		0.31	0.003	0.45	1.01	129.5	<0.2	<10	220	1.56	0.18	5.25	2.58	18.60	10.3	19
ZZ56531		0.29	0.021	0.90	0.29	8970	<0.2	<10	220	10.30	0.04	24.4	4.11	13.65	12.5	6
ZZ56532		0.32	0.014	0.73	0.24	>10000	<0.2	<10	2130	11.70	0.03	17.25	6.60	14.75	32.3	5
ZZ56533		0.29	0.002	0.36	1.06	124.5	<0.2	<10	310	0.89	0.19	2.57	1.40	22.3	9.8	21
ZZ56534		0.39	0.002	0.33	1.34	45.6	<0.2	<10	460	1.01	0.22	0.55	0.85	30.9	10.9	23
ZZ56535		0.35	0.004	0.32	1.19	31.2	<0.2	<10	490	0.97	0.17	5.42	2.20	21.3	10.7	20
ZZ56536		0.39	0.004	0.47	1.11	45.8	<0.2	<10	380	1.02	0.20	4.27	1.71	22.3	11.9	21
ZZ56537		0.38	0.004	0.42	1.24	42.8	<0.2	<10	570	0.92	0.24	1.70	1.28	24.2	12.9	23
ZZ56538		0.40	0.003	0.22	1.60	26.6	<0.2	<10	340	0.94	0.22	0.26	0.29	35.7	11.1	26
ZZ56539		0.33	0.004	0.21	1.55	24.9	<0.2	<10	400	0.68	0.24	0.62	0.29	27.2	11.9	25
ZZ56540		0.43	0.003	0.40	1.37	78.4	<0.2	<10	480	1.00	0.21	0.77	0.79	23.1	10.9	24
ZZ56541		0.36	0.003	0.29	1.54	36.2	<0.2	<10	570	0.94	0.23	0.15	0.55	29.2	10.3	26
ZZ56542		0.40	0.003	0.50	1.52	36.5	<0.2	<10	610	1.19	0.27	0.72	0.63	19.20	13.3	27
ZZ56543		0.33	0.003	0.37	1.49	28.6	<0.2	<10	510	0.90	0.24	0.72	1.12	28.6	13.1	26
ZZ56544		0.36	0.004	0.78	1.59	36.4	<0.2	<10	740	1.33	0.28	1.97	0.71	23.0	16.2	27
ZZ56545		0.44	0.004	0.45	1.15	29.1	<0.2	<10	360	0.85	0.20	1.88	2.10	24.1	11.6	23
ZZ56546		0.33	0.001	0.10	1.80	19.7	<0.2	<10	540	0.84	0.27	0.46	0.57	29.0	9.9	28
ZZ56547		0.37	0.003	0.43	2.00	34.6	<0.2	<10	520	1.51	0.32	0.57	0.32	29.3	18.6	31
ZZ56548		0.36	0.003	0.44	1.61	32.3	<0.2	<10	370	1.14	0.30	0.53	0.96	27.4	15.4	27

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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56509		2.13	11.0	2.56	3.80	0.08	0.05	1.71	0.031	0.06	14.3	8.9	3.29	524	1.34	0.02
ZZ56510		2.18	10.6	3.26	5.94	0.08	0.03	1.30	0.036	0.04	11.7	11.3	0.37	557	1.45	0.01
ZZ56511		0.83	14.2	2.45	3.53	0.09	0.07	1.20	0.035	0.04	17.5	8.2	4.49	965	1.80	0.02
ZZ56512		10.25	31.0	5.10	3.51	0.13	0.06	2.84	0.031	0.08	11.4	8.4	3.65	4440	1.54	0.02
ZZ56513		0.75	10.9	1.47	2.40	0.05	0.03	1.95	0.021	0.03	8.5	5.1	6.81	871	0.93	0.03
ZZ56514		0.56	8.0	1.11	1.17	0.05	0.04	3.46	0.014	0.04	6.2	3.8	8.73	647	1.69	0.03
ZZ56515		0.68	14.6	2.12	3.12	0.07	0.07	4.21	0.028	0.05	10.1	8.1	5.17	534	1.80	0.02
ZZ56516		0.95	13.8	2.28	3.56	0.08	0.05	1.97	0.031	0.03	13.0	5.4	3.94	1200	1.67	0.02
ZZ56517		0.82	9.9	1.62	3.09	0.06	0.06	2.17	0.024	0.04	10.0	5.8	6.46	717	1.28	0.02
ZZ56518		0.70	14.9	1.63	2.32	0.06	0.07	3.74	0.021	0.05	7.3	6.5	6.52	466	1.93	0.02
ZZ56519		0.60	12.5	1.41	1.83	0.06	0.05	3.44	0.019	0.05	5.2	5.8	6.51	379	2.07	0.02
ZZ56520		0.58	10.3	1.39	1.96	0.06	0.06	2.55	0.019	0.04	7.5	5.2	7.41	521	1.70	0.02
ZZ56521		0.50	5.1	0.64	0.81	0.05	0.04	2.13	0.009	0.03	3.6	2.7	10.20	431	1.24	0.03
ZZ56522		0.73	11.0	1.40	2.35	0.05	0.05	4.03	0.020	0.04	6.0	10.3	6.31	471	1.72	0.02
ZZ56523		1.10	14.8	2.64	5.41	0.07	0.04	0.35	0.033	0.05	13.6	16.1	1.44	565	1.16	0.02
ZZ56524		0.67	18.2	1.78	2.63	0.06	0.04	1.77	0.023	0.05	8.4	11.9	4.30	536	1.78	0.02
ZZ56525		0.80	15.4	2.60	4.15	0.08	0.06	3.19	0.033	0.05	10.2	14.8	2.02	480	1.95	0.01
ZZ56526		0.86	10.9	2.10	3.44	0.08	0.06	2.50	0.028	0.04	16.9	11.8	4.57	443	1.70	0.02
ZZ56527		0.71	17.5	2.42	3.78	0.08	0.05	2.93	0.033	0.04	12.3	12.6	3.76	735	2.33	0.02
ZZ56528		11.90	12.9	1.52	3.38	0.06	0.05	1.19	0.028	0.06	10.5	29.1	2.71	351	0.64	0.02
ZZ56529		2.72	24.7	2.94	4.13	0.10	0.04	0.47	0.035	0.06	17.3	13.7	0.52	675	2.10	0.01
ZZ56530		4.21	19.1	4.20	2.65	0.10	0.08	0.89	0.037	0.06	9.9	9.4	2.73	1390	1.70	0.02
ZZ56531		7.89	13.7	4.21	0.97	0.17	0.05	1.60	0.016	0.03	6.5	4.7	0.28	3370	1.26	0.02
ZZ56532		10.10	11.2	9.83	2.22	0.44	0.08	1.36	0.037	0.03	7.0	4.6	0.69	24500	12.35	0.04
ZZ56533		0.96	31.7	2.72	3.57	0.08	0.04	0.22	0.031	0.05	12.1	15.8	1.32	594	7.74	0.01
ZZ56534		1.11	28.7	3.13	4.14	0.09	0.05	0.26	0.036	0.05	12.4	20.3	0.34	449	2.55	0.01
ZZ56535		0.87	40.7	2.06	3.77	0.09	0.07	0.50	0.030	0.05	10.6	23.5	2.84	201	0.83	0.02
ZZ56536		1.47	72.8	2.64	3.51	0.09	0.07	0.33	0.037	0.07	11.4	23.9	2.13	619	2.39	0.02
ZZ56537		0.84	50.8	3.17	3.97	0.10	0.07	0.35	0.036	0.06	12.8	22.6	0.81	585	2.55	0.01
ZZ56538		1.12	27.2	3.24	4.49	0.09	0.05	0.10	0.035	0.04	14.2	17.8	0.41	437	1.95	0.01
ZZ56539		1.14	19.7	2.94	5.26	0.08	0.04	0.11	0.033	0.04	12.1	16.9	0.43	510	2.01	0.01
ZZ56540		0.83	33.6	3.22	4.30	0.10	0.06	0.28	0.037	0.05	12.4	17.9	0.44	521	3.12	0.01
ZZ56541		0.95	30.6	3.43	4.87	0.11	0.05	0.25	0.037	0.04	15.2	20.4	0.31	461	2.82	0.01
ZZ56542		0.95	47.1	3.46	4.68	0.10	0.08	0.22	0.045	0.08	10.4	23.3	0.50	453	3.84	0.01
ZZ56543		0.67	29.4	3.14	4.91	0.10	0.06	0.21	0.036	0.06	13.9	24.1	0.55	403	1.97	0.01
ZZ56544		1.56	67.3	3.66	4.93	0.11	0.11	0.34	0.045	0.11	10.9	21.6	0.98	689	4.77	0.02
ZZ56545		0.61	40.8	2.66	3.62	0.09	0.06	0.39	0.033	0.07	12.9	21.6	0.89	350	2.20	0.02
ZZ56546		1.50	13.4	3.03	6.40	0.08	0.03	0.06	0.035	0.05	12.9	18.0	0.36	408	1.74	0.01
ZZ56547		1.55	62.6	4.10	6.21	0.13	0.13	0.48	0.046	0.12	15.3	30.7	0.65	646	3.18	0.01
ZZ56548		1.61	53.0	3.88	5.24	0.12	0.12	0.43	0.042	0.12	12.6	29.1	0.65	409	3.32	0.01

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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ56509	0.78	23.1	760	76.9	13.4	0.001	0.06	1.67	3.8	0.9	0.5	63.1	0.01	0.03	1.4	
ZZ56510	1.26	22.2	570	38.3	11.3	<0.001	0.04	0.64	3.1	0.5	0.7	16.3	0.01	0.03	1.4	
ZZ56511	0.61	22.7	870	108.5	10.1	0.001	0.07	1.28	4.4	1.1	0.4	56.5	0.01	0.04	1.1	
ZZ56512	0.61	113.0	1240	62.0	10.7	0.001	0.08	2.24	3.0	1.7	0.4	63.2	0.01	0.05	1.0	
ZZ56513	0.56	13.9	890	48.1	7.6	0.001	0.07	0.84	1.8	0.8	0.3	83.6	0.01	0.02	0.4	
ZZ56514	0.32	13.4	860	256	7.6	0.001	0.07	2.06	2.0	1.0	0.2	104.5	<0.01	0.03	0.4	
ZZ56515	0.47	19.9	900	82.0	9.8	0.001	0.07	1.27	3.5	1.0	0.4	67.8	0.01	0.03	1.0	
ZZ56516	0.76	18.2	960	99.2	8.3	0.001	0.08	1.60	3.3	1.2	0.5	60.8	0.01	0.04	0.6	
ZZ56517	0.42	18.1	1170	132.5	9.2	<0.001	0.08	1.16	2.2	0.9	0.4	67.1	0.01	0.03	0.6	
ZZ56518	0.43	23.6	720	175.5	7.8	0.001	0.05	1.57	3.5	1.0	0.3	88.5	0.01	0.03	1.3	
ZZ56519	0.33	21.4	760	158.0	8.0	0.001	0.05	1.42	2.8	1.1	0.3	96.6	<0.01	0.03	1.0	
ZZ56520	0.35	15.3	640	348	6.5	<0.001	0.05	1.57	3.2	1.0	0.3	80.6	0.01	0.03	0.7	
ZZ56521	0.27	11.8	540	88.0	5.1	<0.001	0.05	1.09	1.5	0.6	<0.2	113.0	<0.01	0.02	0.4	
ZZ56522	0.36	19.0	590	163.0	7.9	0.001	0.03	1.40	2.5	1.0	0.3	82.4	<0.01	0.03	1.2	
ZZ56523	1.12	22.0	380	32.1	11.9	<0.001	0.02	0.65	3.9	0.8	0.6	24.0	<0.01	0.03	2.3	
ZZ56524	0.51	24.9	670	76.3	9.2	0.001	0.04	1.30	2.6	1.7	0.3	55.7	<0.01	0.03	0.8	
ZZ56525	0.64	23.5	570	59.2	11.4	<0.001	0.03	0.99	4.2	1.1	0.5	31.2	<0.01	0.04	1.6	
ZZ56526	0.69	20.3	650	177.0	9.8	0.001	0.04	1.63	4.3	1.2	0.4	57.8	<0.01	0.03	1.7	
ZZ56527	0.51	25.2	900	181.0	9.2	<0.001	0.06	1.97	3.0	1.5	0.5	59.7	0.01	0.03	0.7	
ZZ56528	0.78	29.3	650	116.0	12.5	<0.001	0.06	0.45	2.9	1.1	0.4	55.0	<0.01	0.02	1.5	
ZZ56529	0.84	29.4	790	65.1	12.5	0.001	0.05	1.24	3.4	1.3	0.5	25.3	0.01	0.03	1.2	
ZZ56530	0.25	33.6	730	63.0	12.9	0.001	0.04	1.09	4.8	1.2	0.4	40.4	0.01	0.04	2.0	
ZZ56531	0.28	188.0	610	95.8	5.4	0.001	0.25	1.99	2.3	4.5	<0.2	220	<0.01	0.09	0.3	
ZZ56532	0.26	643	930	95.6	5.3	0.002	0.14	11.55	2.3	3.1	<0.2	239	0.01	0.09	0.4	
ZZ56533	0.43	33.6	710	28.5	11.9	0.001	0.04	2.15	4.4	1.6	0.4	29.6	<0.01	0.06	1.6	
ZZ56534	0.68	32.3	540	21.6	11.6	<0.001	0.02	0.89	4.5	1.3	0.4	22.7	<0.01	0.05	3.1	
ZZ56535	0.61	28.1	630	38.4	7.2	0.005	0.10	0.77	5.5	5.8	0.3	62.0	<0.01	0.04	3.0	
ZZ56536	0.50	35.5	810	22.5	10.2	0.002	0.04	1.01	6.2	1.9	0.4	55.6	0.01	0.05	2.1	
ZZ56537	0.57	36.5	800	23.7	9.1	0.001	0.03	1.07	6.1	1.5	0.4	39.9	0.01	0.06	2.9	
ZZ56538	0.74	30.0	440	20.4	11.2	<0.001	0.01	0.63	4.9	1.0	0.5	15.9	<0.01	0.04	3.9	
ZZ56539	0.89	25.0	810	18.3	9.8	<0.001	0.03	0.63	3.8	1.1	0.5	27.4	<0.01	0.04	2.2	
ZZ56540	0.58	35.3	690	23.6	9.3	<0.001	0.02	0.89	5.6	1.4	0.5	29.9	<0.01	0.05	2.8	
ZZ56541	0.72	30.1	410	21.6	11.0	<0.001	0.01	0.77	6.8	1.4	0.5	12.7	0.01	0.05	3.9	
ZZ56542	0.43	42.4	390	22.3	10.8	0.001	0.02	1.03	7.0	2.0	0.5	26.6	<0.01	0.07	3.1	
ZZ56543	0.82	33.9	830	18.5	9.9	0.001	0.02	0.67	5.8	1.2	0.5	31.2	<0.01	0.04	3.7	
ZZ56544	0.30	55.6	800	22.3	10.9	0.001	0.02	1.22	8.3	2.4	0.6	52.5	<0.01	0.08	4.7	
ZZ56545	0.69	34.8	1090	22.3	8.2	0.003	0.04	0.94	5.0	2.9	0.4	53.9	0.01	0.04	2.0	
ZZ56546	1.38	22.9	470	17.5	10.4	<0.001	0.02	0.54	3.7	0.8	0.7	22.1	<0.01	0.04	2.5	
ZZ56547	0.34	52.0	380	25.9	11.3	<0.001	0.01	0.94	9.0	1.9	0.6	28.6	<0.01	0.08	5.5	
ZZ56548	0.40	45.9	800	24.5	10.3	0.001	0.02	1.07	6.8	1.7	0.5	34.2	<0.01	0.07	5.4	



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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56509		0.017	0.37	1.55	45	0.35	10.65	369	0.9
ZZ56510		0.024	1.11	1.60	61	0.29	5.53	481	0.6
ZZ56511		0.009	0.42	1.85	57	0.32	16.90	191	1.3
ZZ56512		0.020	28.0	1.81	38	0.90	10.60	3770	1.4
ZZ56513		0.014	0.39	1.92	37	0.22	7.78	411	0.7
ZZ56514		0.005	0.79	1.94	25	0.18	7.50	443	0.8
ZZ56515		0.007	0.57	1.27	54	0.17	12.90	288	1.4
ZZ56516		0.012	0.40	2.41	65	0.26	15.20	391	0.9
ZZ56517		0.007	0.79	1.52	44	0.20	11.65	362	1.4
ZZ56518		0.006	0.76	1.63	36	0.21	10.60	342	1.7
ZZ56519		<0.005	0.56	1.64	30	0.15	8.74	274	1.5
ZZ56520		<0.005	0.48	1.25	34	0.21	11.95	216	1.3
ZZ56521		<0.005	0.61	0.85	14	0.12	4.80	190	1.0
ZZ56522		0.007	0.87	2.11	33	0.20	8.48	462	1.4
ZZ56523		0.024	0.43	1.83	54	0.29	7.68	206	1.1
ZZ56524		0.012	0.54	1.94	38	0.18	9.49	317	1.0
ZZ56525		0.009	0.34	1.71	63	0.19	10.95	220	1.4
ZZ56526		0.014	0.59	2.61	47	0.29	13.00	211	1.3
ZZ56527		0.008	0.77	1.70	62	0.26	16.40	380	1.0
ZZ56528		0.019	6.35	1.53	29	0.35	7.63	1360	1.2
ZZ56529		0.023	1.21	3.00	51	0.26	15.15	472	0.9
ZZ56530		<0.005	0.47	1.75	32	0.17	18.55	186	1.5
ZZ56531		<0.005	14.70	3.20	37	3.55	15.20	3730	3.5
ZZ56532		<0.005	120.5	3.97	67	34.0	17.45	5950	6.3
ZZ56533		0.008	0.36	2.15	105	0.18	13.50	293	1.1
ZZ56534		0.009	0.25	1.36	63	0.17	11.15	136	1.4
ZZ56535		0.008	0.17	2.16	45	0.13	13.30	162	2.6
ZZ56536		0.008	0.23	1.53	54	0.16	17.85	149	1.7
ZZ56537		0.011	0.21	1.22	64	0.13	17.45	150	2.0
ZZ56538		0.011	0.19	1.32	55	0.14	9.34	101	1.3
ZZ56539		0.020	0.16	1.59	57	0.47	7.79	88	1.1
ZZ56540		0.008	0.21	1.30	72	0.13	16.65	133	1.6
ZZ56541		0.009	0.21	1.37	72	0.14	18.35	111	1.4
ZZ56542		<0.005	0.20	1.12	73	0.08	16.55	156	2.6
ZZ56543		0.016	0.14	1.21	64	0.22	13.05	132	1.6
ZZ56544		<0.005	0.26	1.36	69	0.10	18.95	180	4.2
ZZ56545		0.013	0.15	1.92	51	0.15	17.55	168	1.7
ZZ56546		0.026	0.17	1.63	75	0.29	7.97	114	0.8
ZZ56547		<0.005	0.19	1.09	65	0.09	20.1	153	4.9
ZZ56548		0.006	0.23	1.22	61	0.07	13.20	293	5.2

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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56549		0.32	0.003	0.20	1.60	39.0	<0.2	<10	390	1.16	0.21	0.29	0.88	30.3	11.1	26
ZZ56550		0.35	0.003	0.49	1.39	23.8	<0.2	<10	670	1.03	0.25	1.78	1.64	25.8	14.9	25
ZZ56551		0.31	0.002	0.24	1.51	34.4	<0.2	<10	320	0.89	0.23	0.46	0.58	27.9	10.8	26
ZZ56552		0.38	0.003	0.59	1.54	34.8	<0.2	<10	470	1.24	0.27	0.93	0.89	25.4	15.6	28
ZZ56553		0.48	0.004	0.38	1.27	28.3	<0.2	<10	630	0.96	0.22	1.64	1.06	24.0	13.2	23
ZZ56554		0.39	0.004	0.47	1.44	30.3	<0.2	<10	510	1.08	0.24	1.37	1.44	29.5	13.0	26
ZZ56555		0.32	0.003	0.21	1.81	21.7	<0.2	<10	200	1.13	0.33	3.72	0.46	27.5	16.6	27
ZZ56556		0.36	0.003	0.25	2.09	23.4	<0.2	<10	230	1.34	0.39	0.69	0.36	32.1	18.7	31
ZZ56557		0.56	0.003	0.37	1.13	43.6	<0.2	<10	400	0.95	0.22	3.71	1.08	19.00	12.9	20
ZZ56558		0.32	0.009	0.52	0.17	>10000	<0.2	<10	1160	7.99	0.02	21.9	3.43	11.25	8.0	4
ZZ56559		0.35	0.010	0.48	0.17	>10000	<0.2	<10	650	6.70	0.03	>25.0	2.16	7.95	9.2	3
ZZ56560		0.40	0.005	1.59	0.58	164.5	<0.2	10	1000	0.67	0.18	3.07	1.44	6.34	4.8	25
ZZ56561		0.40	0.005	0.62	0.95	451	<0.2	<10	300	0.75	0.20	8.43	0.77	17.35	8.0	19
ZZ56562		0.39	0.005	1.18	0.81	191.5	<0.2	<10	400	0.75	0.19	6.83	1.56	13.75	8.0	20
ZZ56563		0.40	0.003	0.42	1.70	91.8	<0.2	<10	240	0.73	0.23	3.33	1.51	32.5	10.0	27
ZZ56564		0.34	0.005	1.09	0.86	203	<0.2	<10	80	0.82	0.11	13.65	1.71	13.90	5.5	15
ZZ56565		0.31	0.005	1.14	0.92	216	<0.2	<10	70	1.05	0.13	13.40	1.97	12.35	5.4	16
ZZ56566		0.38	0.008	1.50	0.28	143	<0.2	<10	40	0.44	0.04	18.80	5.56	5.15	2.8	7
ZZ56567		0.36	0.004	1.02	0.65	124	<0.2	<10	90	0.67	0.09	14.55	1.41	10.75	3.8	13
ZZ56568		0.44	0.004	1.34	0.73	175	<0.2	<10	80	0.87	0.10	13.00	4.06	11.85	4.9	12
ZZ56569		0.40	0.004	1.50	0.57	139	<0.2	<10	50	0.78	0.08	14.85	4.99	10.40	5.3	11
ZZ56570		0.43	0.005	1.34	1.01	222	<0.2	<10	80	0.93	0.14	11.55	3.17	17.10	6.3	19
ZZ56571		0.44	0.003	0.38	0.44	114	<0.2	<10	50	0.67	0.07	18.80	1.72	6.72	4.2	8
ZZ56572		0.32	0.003	0.65	1.10	131	<0.2	<10	90	0.98	0.14	11.10	1.77	16.40	6.9	18
ZZ56573		0.44	0.002	0.38	0.40	107	<0.2	<10	40	0.56	0.06	16.65	1.26	7.16	3.9	8
ZZ56574		0.32	0.003	0.79	1.07	140.5	<0.2	<10	80	1.15	0.16	7.46	4.01	15.25	8.9	18
ZZ56575		0.36	0.002	0.83	1.56	113.0	<0.2	<10	100	1.26	0.20	7.67	1.52	24.4	7.5	25
ZZ56576		0.36	0.002	0.60	1.13	118.5	<0.2	<10	110	0.93	0.14	9.54	1.38	21.3	6.8	20
ZZ56577		0.33	0.021	5.49	0.75	247	<0.2	<10	70	0.72	0.10	15.30	8.35	11.65	5.1	13
ZZ56578		0.34	0.006	1.39	0.44	119	<0.2	<10	40	0.67	0.06	17.30	2.53	8.19	3.6	8
ZZ56579		0.36	0.003	0.73	0.32	129	<0.2	<10	40	0.45	0.05	18.65	2.04	6.09	3.5	7
ZZ56580		0.32	0.003	0.70	0.99	111	<0.2	<10	130	0.65	0.13	12.05	1.40	17.20	5.8	18
ZZ56581		0.38	0.005	0.57	1.27	126.5	<0.2	<10	140	0.66	0.18	6.16	0.74	27.0	8.5	23
ZZ56582		0.31	0.009	1.01	1.21	333	<0.2	<10	640	1.05	0.21	2.54	1.17	13.45	6.7	37
ZZ56583		0.37	0.006	1.10	0.38	59.5	<0.2	10	1260	0.52	0.17	0.86	0.93	4.97	6.5	23
ZZ56584		0.43	0.007	1.39	0.43	73.2	<0.2	10	1160	0.50	0.16	2.24	0.86	4.92	5.1	20
ZZ56585		0.36	0.004	1.19	0.39	71.0	<0.2	10	1020	0.47	0.15	1.37	0.85	4.02	4.0	20
ZZ56586		0.30	0.004	0.99	0.40	55.1	<0.2	10	1150	0.50	0.16	0.76	0.93	4.44	5.1	22
ZZ56587		0.34	0.007	0.92	0.78	123.5	<0.2	<10	910	0.68	0.19	0.06	0.91	8.63	4.0	26
ZZ56588		0.29	0.004	0.65	1.14	157	<0.2	<10	100	0.68	0.12	11.60	2.01	16.15	4.8	17

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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56549		0.89	25.3	3.65	4.08	0.10	0.07	0.24	0.042	0.05	11.8	18.9	0.38	534	2.38	0.01
ZZ56550		1.00	47.6	2.95	4.45	0.10	0.08	0.24	0.038	0.09	12.6	22.7	0.82	456	2.94	0.02
ZZ56551		1.01	23.9	3.71	4.71	0.10	0.07	0.11	0.041	0.05	12.2	18.2	0.35	512	2.58	0.01
ZZ56552		1.27	52.7	3.58	4.94	0.11	0.08	0.31	0.043	0.09	12.7	20.8	0.68	786	3.67	0.01
ZZ56553		0.94	42.0	2.98	4.11	0.10	0.08	0.26	0.037	0.07	11.6	20.1	0.92	471	2.58	0.02
ZZ56554		0.97	44.0	3.13	4.57	0.10	0.07	0.42	0.038	0.07	15.4	20.1	0.79	371	2.31	0.02
ZZ56555		2.47	53.3	4.17	5.78	0.10	0.17	0.22	0.043	0.16	11.9	39.8	1.06	547	1.60	0.02
ZZ56556		2.08	61.6	4.73	6.79	0.13	0.14	0.22	0.047	0.16	13.9	46.0	0.85	555	1.60	0.01
ZZ56557		0.83	44.1	3.04	3.74	0.08	0.06	0.34	0.034	0.07	9.2	21.2	1.63	495	3.00	0.02
ZZ56558		6.18	6.5	5.66	1.47	0.21	0.05	1.02	0.022	0.02	5.5	2.8	0.34	15600	3.87	0.02
ZZ56559		5.26	8.6	6.05	1.22	0.24	0.04	1.90	0.018	0.02	3.9	3.6	0.30	9250	3.77	0.02
ZZ56560		1.24	54.7	1.93	2.28	0.05	0.06	1.58	0.033	0.08	3.8	5.6	0.76	129	7.82	0.01
ZZ56561		0.80	34.0	2.29	2.90	0.05	0.03	3.38	0.032	0.06	8.6	9.1	2.51	307	3.11	0.02
ZZ56562		0.69	30.1	2.29	2.54	0.06	0.04	3.75	0.032	0.05	7.0	9.5	2.84	373	4.16	0.01
ZZ56563		1.26	10.2	2.68	4.95	0.06	0.04	1.65	0.028	0.05	15.2	15.9	2.07	525	1.36	0.01
ZZ56564		0.82	8.8	1.31	1.98	<0.05	0.04	9.09	0.019	0.04	6.9	6.9	7.82	414	2.68	0.02
ZZ56565		1.00	7.8	1.42	2.45	<0.05	0.04	8.92	0.020	0.03	6.3	7.3	6.92	588	4.25	0.02
ZZ56566		0.46	5.6	0.57	0.77	<0.05	0.03	25.7	0.009	0.03	2.7	3.8	9.34	303	1.20	0.02
ZZ56567		0.66	7.2	1.02	1.50	<0.05	0.03	6.77	0.015	0.03	6.7	5.6	8.68	355	1.50	0.02
ZZ56568		0.80	8.7	1.24	1.90	<0.05	0.04	6.20	0.016	0.04	6.3	7.4	7.64	492	1.63	0.02
ZZ56569		0.41	8.1	1.09	1.49	<0.05	0.04	5.61	0.013	0.03	5.4	6.8	8.80	483	1.22	0.02
ZZ56570		1.04	10.7	1.76	2.52	0.05	0.04	5.53	0.021	0.04	9.1	10.2	6.75	504	1.73	0.02
ZZ56571		0.69	9.0	0.86	1.13	<0.05	0.03	1.61	0.010	0.05	3.3	6.4	8.45	231	1.23	0.02
ZZ56572		0.75	13.2	1.68	2.57	<0.05	0.05	1.59	0.018	0.06	8.4	9.7	6.41	416	1.60	0.02
ZZ56573		0.58	8.0	0.84	1.03	<0.05	0.03	1.26	0.010	0.04	3.5	5.5	8.95	211	1.26	0.02
ZZ56574		0.50	15.1	2.24	2.88	0.05	0.04	0.98	0.022	0.05	7.6	13.3	4.30	479	1.55	0.02
ZZ56575		0.66	14.0	2.35	3.79	0.05	0.05	1.97	0.027	0.05	10.7	12.9	4.42	538	1.59	0.02
ZZ56576		0.73	9.7	1.81	2.88	<0.05	0.04	1.28	0.020	0.04	11.2	10.8	5.57	567	1.11	0.02
ZZ56577		1.40	9.2	1.35	2.03	<0.05	0.03	66.0	0.016	0.03	6.1	7.7	7.39	650	1.44	0.02
ZZ56578		0.54	6.3	0.75	1.09	<0.05	0.05	19.80	0.009	0.03	4.2	4.0	9.80	408	1.31	0.02
ZZ56579		0.56	6.1	0.68	0.84	<0.05	0.02	4.50	0.008	0.03	3.9	4.0	9.61	283	1.26	0.02
ZZ56580		0.75	8.6	1.60	2.38	0.05	0.04	6.13	0.020	0.04	10.5	7.7	6.94	347	1.70	0.02
ZZ56581		0.95	11.8	2.21	3.52	0.05	0.04	2.90	0.023	0.04	14.6	12.3	3.53	552	1.56	0.02
ZZ56582		1.05	23.1	2.61	3.80	0.06	0.06	2.51	0.037	0.06	8.7	6.4	0.74	277	6.14	0.01
ZZ56583		1.37	52.5	2.06	1.46	0.06	0.09	0.26	0.033	0.08	3.1	2.4	0.09	41	5.16	0.01
ZZ56584		0.70	46.0	2.13	1.49	0.06	0.06	0.64	0.032	0.07	2.9	2.4	0.53	95	5.63	0.01
ZZ56585		0.74	45.3	2.05	1.36	0.06	0.06	0.29	0.032	0.07	2.5	2.3	0.17	56	4.75	0.01
ZZ56586		1.04	53.3	2.06	1.41	0.06	0.07	0.30	0.033	0.07	2.8	2.4	0.06	39	6.01	0.01
ZZ56587		0.75	37.1	1.43	2.32	<0.05	0.03	0.47	0.034	0.07	4.7	5.4	0.04	84	4.37	0.01
ZZ56588		0.73	5.8	1.52	2.32	<0.05	0.02	270	0.020	0.03	8.7	6.6	6.76	642	2.07	0.02

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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ56549		0.59	33.1	450	25.9	10.5	<0.001	0.02	0.75	6.0	1.2	0.4	13.5	<0.01	0.05	3.6
ZZ56550		0.57	42.8	820	22.9	11.3	0.001	0.03	1.08	6.3	2.1	0.5	43.8	<0.01	0.06	2.9
ZZ56551		0.82	30.3	350	22.3	12.6	<0.001	0.01	0.77	5.2	1.1	0.5	19.2	<0.01	0.05	4.4
ZZ56552		0.52	47.0	780	26.7	10.5	0.001	0.02	1.10	7.6	1.8	0.5	33.0	0.01	0.06	4.4
ZZ56553		0.62	39.6	840	18.9	9.5	0.001	0.02	1.05	6.4	1.6	0.4	39.6	<0.01	0.05	3.8
ZZ56554		0.78	38.5	860	26.2	11.3	0.001	0.02	0.96	6.7	1.3	0.5	33.9	0.01	0.05	4.0
ZZ56555		0.20	36.9	580	22.3	13.5	0.001	0.01	0.54	6.8	1.1	0.5	120.0	<0.01	0.06	6.5
ZZ56556		0.26	42.6	630	24.6	11.6	<0.001	0.01	0.56	7.7	0.9	0.6	40.6	<0.01	0.06	7.1
ZZ56557		0.53	35.5	780	22.9	8.3	0.002	0.03	1.09	5.4	1.5	0.4	61.3	<0.01	0.05	2.9
ZZ56558		0.22	282	730	54.1	2.4	0.002	0.14	5.19	2.8	2.2	<0.2	185.0	<0.01	0.65	0.3
ZZ56559		0.26	189.0	540	106.0	2.6	0.001	0.15	6.00	3.2	2.0	<0.2	226	<0.01	0.07	0.3
ZZ56560		0.12	47.9	940	33.4	7.1	0.003	0.06	1.62	6.5	2.8	0.4	120.0	<0.01	0.07	1.8
ZZ56561		0.48	32.0	720	65.6	6.1	0.001	0.02	1.77	3.7	1.0	0.4	57.0	<0.01	0.04	1.4
ZZ56562		0.45	53.1	710	67.1	5.7	0.002	0.02	1.69	4.8	2.7	0.4	79.9	<0.01	0.04	1.4
ZZ56563		1.15	24.4	310	58.2	10.4	<0.001	<0.01	1.10	4.9	0.6	0.5	28.2	<0.01	0.02	3.4
ZZ56564		0.36	19.5	950	119.0	5.9	<0.001	0.04	2.51	2.2	0.8	0.3	73.4	<0.01	0.02	0.6
ZZ56565		0.38	21.7	810	177.0	6.9	<0.001	0.03	3.91	3.2	0.9	0.3	60.7	<0.01	0.02	0.7
ZZ56566		0.21	10.2	380	246	3.7	0.001	0.02	2.22	1.8	0.8	<0.2	109.5	<0.01	0.01	0.5
ZZ56567		0.31	12.7	750	125.5	4.6	0.001	0.03	1.46	2.5	0.8	0.2	84.4	<0.01	0.02	0.5
ZZ56568		0.39	16.3	700	282	6.5	<0.001	0.03	2.40	2.2	1.1	0.2	82.9	<0.01	0.02	0.8
ZZ56569		0.27	14.4	840	347	5.3	<0.001	0.04	1.75	1.9	0.7	0.2	87.9	<0.01	0.02	0.7
ZZ56570		0.50	20.9	610	315	8.5	<0.001	0.03	2.79	3.0	0.8	0.3	72.0	<0.01	0.03	1.2
ZZ56571		0.25	15.1	280	114.0	3.7	<0.001	0.01	1.16	2.4	0.6	<0.2	131.5	<0.01	0.02	1.3
ZZ56572		0.46	21.1	930	119.5	7.2	<0.001	0.04	1.56	2.4	0.7	0.3	74.2	<0.01	0.02	0.9
ZZ56573		0.23	14.2	410	86.0	4.2	<0.001	0.01	1.13	1.9	0.6	<0.2	105.0	<0.01	0.01	0.8
ZZ56574		0.45	23.3	800	204	6.9	<0.001	0.04	1.52	2.4	0.8	0.3	48.9	<0.01	0.03	0.9
ZZ56575		0.65	20.7	670	344	7.7	<0.001	0.05	1.88	3.5	1.7	0.5	52.5	<0.01	0.02	1.4
ZZ56576		0.66	17.7	620	95.7	6.8	<0.001	0.02	1.12	3.4	0.7	0.3	62.6	<0.01	0.02	1.5
ZZ56577		0.44	16.3	460	1300	5.3	<0.001	0.02	3.18	2.8	1.3	0.3	85.4	<0.01	0.02	1.4
ZZ56578		0.21	12.3	660	235	3.4	<0.001	0.03	1.99	1.5	0.8	<0.2	97.7	<0.01	0.02	0.6
ZZ56579		0.20	11.9	390	148.0	3.4	<0.001	0.01	1.48	1.6	0.8	<0.2	98.3	<0.01	0.01	0.7
ZZ56580		0.55	17.5	570	94.8	6.4	<0.001	0.03	1.16	3.9	0.9	0.3	70.1	<0.01	0.02	1.2
ZZ56581		0.81	23.6	480	63.3	7.5	<0.001	0.02	1.28	4.2	0.7	0.4	40.3	<0.01	0.02	2.3
ZZ56582		0.33	40.4	570	85.0	7.5	0.001	0.04	1.73	6.5	2.1	0.6	89.0	<0.01	0.05	1.8
ZZ56583		0.08	75.2	1010	12.8	7.1	0.008	0.05	1.25	7.0	6.1	0.4	133.5	<0.01	0.07	1.7
ZZ56584		0.10	62.8	980	21.9	6.0	0.006	0.05	1.21	6.0	4.3	0.4	125.5	<0.01	0.08	1.5
ZZ56585		0.09	62.0	920	13.8	6.0	0.013	0.09	1.22	5.5	6.7	0.4	131.5	<0.01	0.08	1.2
ZZ56586		0.07	70.0	960	11.8	6.6	0.010	0.06	1.19	6.2	7.6	0.4	123.5	<0.01	0.08	1.4
ZZ56587		0.12	26.8	500	18.5	7.2	0.003	0.07	0.85	4.8	2.8	0.5	83.1	<0.01	0.07	1.3
ZZ56588		0.41	14.2	760	108.5	5.2	<0.001	0.05	1.56	2.1	0.9	0.3	54.4	<0.01	0.02	0.4

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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56549		0.005	0.22	1.66	62	0.10	12.50	140	1.9
ZZ56550		0.010	0.17	1.22	63	0.12	16.50	150	2.3
ZZ56551		0.010	0.26	1.46	70	0.15	10.90	132	2.7
ZZ56552		0.006	0.27	1.54	76	0.09	18.65	158	2.8
ZZ56553		0.011	0.19	1.82	56	0.25	15.05	137	2.5
ZZ56554		0.016	0.20	1.25	67	0.18	18.00	235	1.9
ZZ56555		0.009	0.20	0.98	41	0.05	9.82	119	8.0
ZZ56556		0.007	0.18	0.73	47	0.06	10.70	128	6.9
ZZ56557		0.008	0.24	1.29	57	0.09	12.65	148	1.9
ZZ56558		<0.005	55.7	2.08	23	13.45	11.95	4080	4.5
ZZ56559		<0.005	37.0	2.56	31	7.88	13.60	3430	4.0
ZZ56560		<0.005	0.33	2.72	55	0.10	16.50	222	2.9
ZZ56561		0.011	0.69	3.05	45	0.30	12.15	191	0.9
ZZ56562		0.008	0.37	3.14	43	0.24	15.20	265	1.3
ZZ56563		0.027	0.31	1.34	50	0.31	9.73	216	1.1
ZZ56564		0.008	0.61	2.21	31	0.20	8.79	305	1.1
ZZ56565		0.008	0.55	2.91	37	0.39	9.69	481	1.2
ZZ56566		<0.005	0.57	2.08	16	0.14	5.34	476	1.0
ZZ56567		0.007	0.35	1.93	26	0.16	8.54	210	0.8
ZZ56568		0.009	0.91	1.62	27	0.19	6.61	546	1.2
ZZ56569		0.005	0.37	1.68	25	0.16	8.35	432	1.3
ZZ56570		0.009	1.87	2.07	46	0.28	10.10	583	1.2
ZZ56571		<0.005	0.75	3.42	20	0.15	4.97	272	1.3
ZZ56572		0.011	0.76	1.85	41	0.25	8.99	308	1.4
ZZ56573		<0.005	0.54	2.06	22	0.15	5.11	217	1.0
ZZ56574		0.009	0.57	1.37	38	0.26	8.37	693	1.1
ZZ56575		0.013	0.46	1.73	49	0.25	8.49	342	1.3
ZZ56576		0.015	0.46	1.72	40	0.27	9.99	232	1.0
ZZ56577		0.009	1.55	3.29	30	0.24	6.60	983	1.1
ZZ56578		<0.005	0.73	1.90	20	0.25	5.35	334	1.5
ZZ56579		<0.005	0.78	1.90	16	0.15	9.20	260	0.8
ZZ56580		0.011	0.36	1.98	36	0.18	11.15	224	1.1
ZZ56581		0.022	0.49	1.48	41	0.25	11.65	155	1.0
ZZ56582		<0.005	0.59	2.60	100	0.24	20.4	228	1.7
ZZ56583		<0.005	0.13	3.56	47	0.06	23.3	253	4.5
ZZ56584		<0.005	0.14	2.53	46	0.08	21.2	244	2.8
ZZ56585		<0.005	0.13	4.18	46	0.07	19.25	223	2.8
ZZ56586		<0.005	0.12	5.28	48	0.07	21.5	266	3.3
ZZ56587		<0.005	0.23	4.07	55	0.10	14.60	103	1.2
ZZ56588		0.011	0.57	2.86	36	0.19	10.65	188	0.5



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56589		0.29	0.007	2.21	0.31	496	<0.2	<10	40	0.44	0.07	18.90	2.47	6.50	4.2	11
ZZ56590		0.34	0.003	0.98	0.33	156	<0.2	<10	50	0.45	0.04	18.75	1.79	5.69	2.9	7
ZZ56591		0.32	0.004	1.04	0.50	110	<0.2	<10	50	0.63	0.06	17.45	1.50	7.40	4.0	10
ZZ56592		0.28	0.003	1.36	1.04	87	<0.2	<10	70	1.17	0.13	12.65	1.30	20.0	6.8	20
ZZ56593		0.30	0.001	0.38	1.67	63.8	<0.2	<10	110	0.90	0.21	6.58	1.41	23.4	7.5	25
ZZ56594		0.33	0.002	0.74	0.73	132	<0.2	<10	70	1.00	0.09	14.75	2.08	13.40	5.2	12
ZZ56595		0.34	0.003	0.75	0.84	94	<0.2	<10	70	1.06	0.11	12.30	3.12	15.45	6.1	16
ZZ56596		0.38	0.003	0.78	0.41	129	<0.2	<10	40	0.81	0.05	17.15	2.09	5.18	2.6	8
ZZ56597		0.35	0.003	0.94	0.58	157	<0.2	<10	60	0.93	0.09	13.30	2.79	8.24	5.3	12
ZZ56598		0.33	0.003	1.19	1.22	111	<0.2	<10	90	1.11	0.13	12.15	2.36	17.25	5.3	23
ZZ56599		0.31	0.002	0.71	1.61	89.5	<0.2	<10	140	1.36	0.18	6.87	3.15	22.9	7.6	26
ZZ56600		0.37	0.002	0.95	0.90	102	<0.2	<10	80	0.89	0.11	11.25	2.77	17.80	7.7	16
ZZ56601		0.30	0.003	0.72	1.00	56	<0.2	<10	90	1.10	0.13	11.20	1.61	16.90	6.5	19
ZZ56602		0.35	0.002	0.32	1.53	91.9	<0.2	<10	150	1.02	0.21	5.58	0.96	25.1	9.7	24
ZZ56603		0.30	0.003	0.49	1.74	79.8	<0.2	<10	170	1.13	0.19	6.32	0.81	22.1	8.9	27
ZZ56604		0.34	0.003	0.17	1.69	72.7	<0.2	<10	440	1.05	0.20	0.31	0.94	25.2	10.2	33
ZZ56605		0.30	0.003	0.45	0.88	133	<0.2	<10	90	0.74	0.11	11.40	0.49	10.90	5.7	18
ZZ56606		0.35	0.003	0.27	0.79	73	<0.2	<10	110	0.54	0.11	16.80	0.53	10.25	5.1	14
ZZ56607		0.32	0.003	0.36	0.69	86	<0.2	<10	100	0.54	0.10	17.05	0.62	9.18	4.8	12
ZZ56608		0.33	0.002	0.40	0.66	60	<0.2	<10	80	0.66	0.06	19.20	0.63	8.47	3.9	12
ZZ56609		0.30	0.002	0.26	2.03	54.4	<0.2	<10	250	1.06	0.25	1.19	0.55	27.9	10.1	34
ZZ56610		0.31	0.002	0.30	1.65	99.9	<0.2	<10	490	0.70	0.20	0.92	0.99	18.70	9.4	29
ZZ56611		0.34	0.004	0.38	1.68	80.5	<0.2	<10	1100	0.77	0.22	2.19	0.53	19.90	11.3	28
ZZ56612		0.33	0.001	0.07	2.29	19.7	<0.2	<10	320	0.57	0.29	0.31	0.38	25.1	13.5	33
ZZ56613		0.35	0.004	0.46	1.41	94.2	<0.2	<10	210	0.84	0.15	7.17	0.71	13.25	6.0	24
ZZ56614		0.30	0.002	0.29	1.96	87.4	<0.2	<10	230	1.21	0.20	3.08	1.29	26.1	10.1	30
ZZ56615		0.33	0.004	0.20	1.54	32.4	<0.2	<10	310	0.73	0.23	0.56	0.36	26.1	13.2	27
ZZ56616		0.36	0.002	0.11	1.68	27.6	<0.2	<10	130	0.51	0.16	0.28	0.19	26.1	6.4	28
ZZ56617		0.34	0.002	0.41	2.02	106.5	<0.2	<10	180	1.06	0.26	3.32	4.22	29.3	9.8	33
ZZ56618		0.34	0.003	1.72	1.34	142	<0.2	<10	90	1.22	0.14	10.70	3.11	17.75	6.6	22
ZZ56619		0.30	0.003	0.65	1.60	89.3	<0.2	<10	120	1.25	0.17	9.17	2.18	22.5	6.3	27
ZZ56620		0.31	0.003	0.67	1.37	53.3	<0.2	<10	100	1.06	0.17	6.25	1.17	19.65	7.2	22
ZZ56621		0.35	0.003	1.25	2.21	74.0	<0.2	<10	170	1.39	0.25	3.25	3.21	36.5	8.3	32
ZZ56622		0.36	0.002	1.29	0.53	136	<0.2	<10	50	0.43	0.07	16.55	4.06	8.42	3.5	10
ZZ56623		0.31	0.004	0.89	1.09	96	<0.2	<10	80	1.36	0.14	10.40	2.87	20.5	7.5	19
ZZ56624		0.37	0.004	1.07	1.97	151.5	<0.2	<10	130	1.31	0.23	4.40	1.76	31.1	9.4	32
ZZ56625		0.35	0.005	1.08	0.37	118	<0.2	<10	40	0.79	0.05	18.00	1.71	4.56	2.4	9
ZZ56626		0.32	0.023	0.51	2.20	226	<0.2	<10	180	1.54	0.29	1.53	1.72	40.0	12.8	37
ZZ56627		0.28	0.004	0.55	1.88	150.5	<0.2	<10	180	1.77	0.24	3.47	1.04	24.6	8.9	35
ZZ56628		0.33	0.002	0.29	1.72	82.4	<0.2	<10	160	1.14	0.22	4.79	1.26	24.5	8.9	28



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56589		0.49	6.7	1.05	0.84	<0.05	0.03	34.2	0.012	0.03	3.3	1.8	8.46	274	4.96	0.02
ZZ56590		0.53	5.5	0.63	0.80	<0.05	0.02	7.34	0.007	0.03	3.0	3.5	10.55	245	1.12	0.02
ZZ56591		0.56	7.1	0.87	1.21	<0.05	0.03	3.44	0.010	0.04	4.0	4.9	9.10	350	1.07	0.02
ZZ56592		0.67	12.0	1.71	2.08	0.05	0.06	1.85	0.021	0.05	10.7	7.8	7.35	395	1.41	0.02
ZZ56593		1.06	7.9	2.44	4.47	0.05	0.04	11.00	0.028	0.04	12.9	11.6	3.92	486	1.20	0.02
ZZ56594		0.56	9.3	1.29	1.36	<0.05	0.04	9.95	0.013	0.04	5.9	5.6	8.86	489	0.98	0.03
ZZ56595		0.52	12.0	1.56	1.99	<0.05	0.04	2.12	0.017	0.04	7.5	6.8	6.64	574	1.26	0.02
ZZ56596		0.44	7.3	0.72	0.86	<0.05	0.05	5.24	0.008	0.03	2.6	3.6	9.57	236	0.73	0.03
ZZ56597		0.51	11.2	1.39	1.43	<0.05	0.05	2.07	0.013	0.04	3.7	6.6	7.51	384	1.61	0.03
ZZ56598		0.66	7.5	1.71	2.72	<0.05	0.05	3.14	0.019	0.03	12.4	7.0	6.64	462	1.23	0.03
ZZ56599		0.74	10.2	2.49	3.61	0.05	0.05	0.85	0.025	0.04	12.9	9.6	4.02	605	1.23	0.02
ZZ56600		0.52	10.1	1.52	2.10	<0.05	0.03	1.29	0.017	0.04	7.6	7.6	6.60	488	0.83	0.03
ZZ56601		0.49	10.2	1.88	2.29	0.05	0.04	0.61	0.020	0.04	10.5	8.4	6.20	459	1.34	0.02
ZZ56602		1.03	12.0	2.61	3.79	0.05	0.03	0.27	0.024	0.05	11.2	12.3	3.44	455	1.11	0.02
ZZ56603		0.94	12.8	2.81	4.04	0.05	0.06	0.66	0.029	0.04	12.9	12.6	3.75	411	2.19	0.02
ZZ56604		1.10	23.6	3.56	4.39	0.05	0.05	0.28	0.036	0.05	9.5	16.2	0.37	363	4.05	0.01
ZZ56605		0.54	14.4	1.87	1.86	<0.05	0.04	0.29	0.017	0.04	6.6	6.2	2.87	246	4.36	0.02
ZZ56606		0.58	13.5	1.45	2.13	<0.05	0.05	0.27	0.015	0.04	5.3	6.3	1.96	224	3.86	0.02
ZZ56607		0.57	13.2	1.26	1.79	<0.05	0.04	0.50	0.013	0.04	5.0	5.9	2.00	231	4.10	0.02
ZZ56608		0.55	8.8	0.89	1.09	<0.05	0.03	0.20	0.011	0.03	5.2	3.8	3.26	164	4.22	0.02
ZZ56609		1.20	14.4	3.19	5.68	0.05	0.06	0.09	0.034	0.04	14.6	14.1	0.41	296	3.13	0.01
ZZ56610		1.19	15.4	3.05	4.18	<0.05	0.04	0.37	0.030	0.05	9.4	12.8	0.45	470	4.37	0.01
ZZ56611		1.10	23.1	2.78	4.90	0.05	0.04	0.85	0.031	0.05	10.1	12.2	0.73	683	5.13	0.02
ZZ56612		1.79	7.9	2.74	6.75	<0.05	0.05	0.04	0.028	0.05	13.1	17.7	0.40	382	2.99	0.01
ZZ56613		1.09	16.1	2.09	3.48	<0.05	0.05	0.20	0.026	0.04	7.4	8.7	0.83	194	5.41	0.02
ZZ56614		0.90	18.1	3.40	4.46	0.06	0.05	0.28	0.036	0.04	13.7	11.7	1.51	489	3.24	0.01
ZZ56615		0.99	27.1	3.44	4.64	<0.05	0.05	0.24	0.034	0.05	10.9	17.5	0.42	466	2.43	0.01
ZZ56616		1.30	5.3	2.64	4.52	<0.05	0.03	0.28	0.026	0.04	13.4	15.9	0.42	146	0.65	0.01
ZZ56617		1.05	11.4	3.04	5.23	0.05	0.06	1.09	0.038	0.05	16.0	13.4	2.08	699	1.02	0.02
ZZ56618		0.76	8.3	1.97	2.83	<0.05	0.06	2.19	0.023	0.03	9.3	7.8	5.98	512	2.12	0.02
ZZ56619		0.81	8.4	2.29	3.57	0.05	0.05	0.60	0.023	0.04	13.0	9.7	4.87	259	1.17	0.02
ZZ56620		0.60	9.7	2.34	3.37	<0.05	0.06	1.01	0.020	0.04	9.8	11.6	3.64	285	1.30	0.02
ZZ56621		1.20	9.7	3.08	5.15	0.05	0.06	0.84	0.028	0.04	18.1	13.8	1.89	504	1.42	0.02
ZZ56622		0.50	6.3	0.87	1.27	<0.05	0.02	1.77	0.010	0.03	4.3	4.5	6.98	330	0.84	0.02
ZZ56623		0.61	10.4	1.84	2.68	<0.05	0.03	1.69	0.019	0.05	9.4	9.8	5.90	500	0.97	0.03
ZZ56624		1.12	13.2	3.22	4.64	0.05	0.07	2.10	0.027	0.05	16.4	12.9	2.60	512	1.86	0.02
ZZ56625		0.47	5.5	0.66	0.88	0.05	0.04	6.29	0.009	0.02	3.0	3.0	9.68	266	0.76	0.03
ZZ56626		1.20	15.8	3.79	5.92	0.07	0.07	5.87	0.034	0.06	20.2	18.3	1.25	901	1.68	0.02
ZZ56627		0.76	17.3	3.31	4.27	0.05	0.08	1.16	0.037	0.06	14.5	13.9	2.01	375	2.06	0.02
ZZ56628		0.99	9.5	2.60	4.27	<0.05	0.04	0.27	0.026	0.05	11.9	12.0	2.90	558	1.13	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ56589		0.15	18.9	650	286	3.4	<0.001	0.04	8.16	2.5	1.0	0.2	74.7	<0.01	0.01	0.7
ZZ56590		0.17	9.8	410	178.0	3.8	<0.001	0.02	1.22	1.7	0.7	<0.2	107.5	<0.01	0.01	0.5
ZZ56591		0.23	12.6	680	165.5	5.2	<0.001	0.03	1.65	1.5	0.7	0.2	93.0	<0.01	0.02	0.5
ZZ56592		0.32	19.1	1100	143.0	7.3	<0.001	0.05	2.03	2.7	0.8	0.3	71.5	<0.01	0.02	1.0
ZZ56593		0.81	17.2	590	49.1	9.3	<0.001	0.03	0.66	3.4	0.7	0.5	38.4	<0.01	0.03	1.4
ZZ56594		0.16	16.6	840	126.5	6.0	<0.001	0.04	1.55	1.7	1.0	0.2	91.3	<0.01	0.04	0.7
ZZ56595		0.25	18.1	940	96.3	5.7	<0.001	0.04	1.19	1.7	0.7	0.3	78.3	<0.01	0.04	0.7
ZZ56596		0.06	12.8	600	122.5	3.7	0.001	0.03	1.68	1.1	0.6	<0.2	106.5	<0.01	0.03	0.5
ZZ56597		0.16	19.6	640	176.5	3.9	0.001	0.03	1.76	1.9	1.0	0.2	96.4	<0.01	0.04	0.9
ZZ56598		0.36	16.0	740	345	7.0	0.001	0.04	2.60	2.5	0.8	0.4	71.2	<0.01	0.03	0.9
ZZ56599		0.53	19.3	810	147.5	8.3	<0.001	0.04	1.33	2.8	0.7	0.4	48.5	<0.01	0.04	0.9
ZZ56600		0.34	18.6	870	172.0	5.7	0.001	0.04	1.91	1.3	0.5	0.3	77.8	<0.01	0.02	0.5
ZZ56601		0.27	18.0	780	65.3	6.0	0.001	0.03	1.03	2.6	0.8	0.3	67.9	<0.01	0.04	0.8
ZZ56602		0.72	24.0	610	48.0	8.5	<0.001	0.02	0.77	2.8	0.7	0.5	40.8	<0.01	0.04	1.4
ZZ56603		0.58	27.1	580	65.3	10.1	<0.001	0.02	1.03	4.8	1.3	0.5	44.8	<0.01	0.05	2.2
ZZ56604		0.26	36.5	470	33.0	10.5	0.001	<0.01	1.37	6.0	1.2	0.5	14.7	<0.01	0.07	3.1
ZZ56605		0.17	36.9	810	24.3	5.9	<0.001	0.04	1.56	2.3	1.3	0.3	63.9	<0.01	0.05	0.8
ZZ56606		0.28	24.6	440	19.8	4.9	0.001	0.02	1.31	2.8	1.1	0.3	92.5	<0.01	0.05	1.6
ZZ56607		0.26	23.9	520	29.2	5.8	0.001	0.03	1.38	2.4	1.2	0.3	98.4	<0.01	0.06	1.2
ZZ56608		0.16	23.5	500	19.7	5.3	0.002	0.04	1.57	1.8	1.0	0.2	107.5	<0.01	0.06	0.4
ZZ56609		1.02	39.7	320	20.1	7.9	0.001	0.01	1.14	5.4	1.1	0.7	15.7	<0.01	0.07	2.8
ZZ56610		0.46	37.3	440	42.5	9.8	<0.001	0.02	2.03	3.8	1.2	0.5	17.6	<0.01	0.07	1.7
ZZ56611		0.59	38.5	730	24.1	7.0	0.001	0.02	1.96	4.2	1.5	0.6	35.7	<0.01	0.11	1.7
ZZ56612		1.20	22.4	200	14.3	10.9	<0.001	<0.01	0.54	4.0	0.5	0.8	11.7	<0.01	0.05	3.6
ZZ56613		0.37	33.9	480	19.0	7.3	0.001	0.02	1.87	3.9	1.4	0.5	43.2	<0.01	0.09	1.7
ZZ56614		0.41	28.7	490	48.6	7.7	0.001	0.02	1.21	5.5	1.5	0.6	26.6	<0.01	0.07	2.0
ZZ56615		0.80	33.1	630	19.9	8.8	0.001	<0.01	0.80	4.0	1.1	0.5	19.8	<0.01	0.05	3.4
ZZ56616		0.85	21.6	550	38.4	10.3	<0.001	<0.01	0.31	2.5	0.4	0.6	13.8	<0.01	0.02	3.9
ZZ56617		0.75	22.4	600	112.0	9.8	<0.001	0.03	1.25	3.7	0.7	0.7	24.3	<0.01	0.04	1.8
ZZ56618		0.37	23.5	550	207	6.5	<0.001	0.02	1.77	3.2	1.0	0.4	69.1	<0.01	0.04	1.3
ZZ56619		0.60	19.4	590	106.5	7.3	0.001	0.02	1.17	3.1	0.6	0.5	57.5	<0.01	0.04	1.4
ZZ56620		0.53	19.8	420	124.5	5.9	<0.001	0.01	1.43	3.3	0.7	0.4	51.2	<0.01	0.04	2.1
ZZ56621		0.95	23.2	410	132.5	9.5	<0.001	0.01	1.05	4.8	0.9	0.6	31.2	<0.01	0.03	2.9
ZZ56622		0.23	11.2	300	463	4.2	<0.001	0.01	2.56	1.4	0.5	0.2	109.5	<0.01	0.03	0.8
ZZ56623		0.49	20.0	610	286	6.7	<0.001	0.02	1.20	2.3	0.9	0.3	68.9	<0.01	0.04	1.0
ZZ56624		0.80	27.4	590	139.0	10.3	<0.001	0.03	1.93	4.5	1.0	0.6	36.2	<0.01	0.04	2.4
ZZ56625		0.08	11.2	490	139.5	3.6	<0.001	0.02	1.94	1.3	0.8	<0.2	111.5	<0.01	0.02	0.5
ZZ56626		1.06	36.8	300	143.5	10.9	<0.001	0.01	1.57	6.2	1.2	0.7	22.3	<0.01	0.06	4.5
ZZ56627		0.60	29.6	830	65.8	9.4	<0.001	0.04	1.17	5.0	1.2	0.5	30.8	<0.01	0.05	2.2
ZZ56628		0.71	20.9	610	31.7	9.1	0.001	0.02	0.62	3.0	0.7	0.5	38.4	<0.01	0.03	1.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56589		<0.005	0.70	4.95	20	0.33	6.23	449	1.0
ZZ56590		<0.005	0.65	1.60	15	0.13	4.35	260	0.8
ZZ56591		<0.005	0.80	2.50	21	0.18	5.70	248	1.0
ZZ56592		0.006	0.67	2.60	40	0.25	12.55	240	1.6
ZZ56593		0.019	0.41	1.91	55	0.26	10.90	209	1.1
ZZ56594		0.006	0.63	1.71	29	0.20	9.05	252	1.3
ZZ56595		0.010	0.39	2.03	37	0.18	9.89	366	1.1
ZZ56596		<0.005	0.47	1.79	22	0.18	5.06	279	1.6
ZZ56597		<0.005	0.50	1.59	33	0.15	7.42	463	1.5
ZZ56598		0.011	0.52	2.24	52	0.27	18.45	391	1.2
ZZ56599		0.015	0.30	1.89	58	0.30	12.70	377	1.1
ZZ56600		0.015	0.76	1.41	36	0.19	6.22	374	0.6
ZZ56601		0.008	0.18	1.36	43	0.15	11.10	157	1.1
ZZ56602		0.023	0.27	1.61	48	0.26	6.51	228	1.0
ZZ56603		0.008	0.45	1.33	70	0.20	14.55	172	1.6
ZZ56604		<0.005	0.30	1.51	128	0.15	13.35	218	1.2
ZZ56605		<0.005	0.51	1.79	76	0.13	14.45	168	1.3
ZZ56606		0.008	0.41	1.85	65	0.12	11.05	102	1.4
ZZ56607		0.007	0.49	2.16	58	0.16	12.25	117	1.3
ZZ56608		<0.005	0.44	2.05	61	0.12	13.20	88	1.0
ZZ56609		0.017	0.38	1.83	107	0.23	15.85	129	1.8
ZZ56610		0.006	1.13	1.85	130	0.16	11.90	200	1.3
ZZ56611		0.011	0.84	1.92	128	0.20	11.50	125	1.1
ZZ56612		0.023	0.36	0.91	74	0.24	5.81	136	1.4
ZZ56613		0.005	1.02	2.04	147	0.15	14.95	108	1.7
ZZ56614		<0.005	0.40	1.17	99	0.18	18.35	153	1.2
ZZ56615		0.016	0.16	1.25	53	0.17	7.44	120	1.3
ZZ56616		0.022	0.34	0.80	56	0.21	4.70	121	1.1
ZZ56617		0.018	0.45	1.37	63	0.24	13.00	527	1.4
ZZ56618		0.007	0.69	1.72	67	0.23	11.15	404	1.4
ZZ56619		0.014	0.36	1.68	58	0.23	11.00	349	1.0
ZZ56620		0.014	0.47	1.28	49	0.21	7.73	246	1.3
ZZ56621		0.020	0.47	1.85	65	0.30	10.25	422	1.5
ZZ56622		0.008	0.66	2.08	25	0.14	5.96	553	0.7
ZZ56623		0.018	0.46	1.49	36	0.26	8.31	746	0.9
ZZ56624		0.021	0.78	1.91	65	0.33	14.40	305	1.6
ZZ56625		<0.005	0.87	2.16	24	0.17	5.60	229	1.1
ZZ56626		0.027	0.71	1.49	74	0.42	14.20	319	2.1
ZZ56627		0.009	0.60	2.04	69	0.29	13.60	198	2.0
ZZ56628		0.021	0.33	2.35	59	0.31	7.32	323	1.1



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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56629		0.36	0.002	0.37	1.98	81.0	<0.2	<10	180	1.98	0.25	2.67	1.47	25.4	9.4	31
ZZ56630		0.34	0.003	0.24	1.82	87.2	<0.2	<10	330	1.07	0.26	0.47	0.31	29.4	11.6	32
ZZ56631		0.37	0.002	1.05	1.17	133.0	<0.2	<10	140	1.12	0.15	6.82	0.93	16.80	5.1	24
ZZ56632		0.32	0.003	0.37	1.09	30.8	<0.2	<10	440	0.89	0.16	5.70	2.58	17.80	6.9	18
ZZ56633		0.34	0.001	0.35	2.00	26.9	<0.2	<10	210	0.75	0.20	0.61	0.58	23.3	7.7	28
ZZ56634		0.37	0.003	0.40	1.26	104.5	<0.2	<10	130	0.98	0.16	8.65	0.89	21.0	6.8	22
ZZ56635		0.35	0.004	0.53	1.82	60.4	<0.2	<10	380	1.21	0.20	1.41	0.37	22.5	9.3	31
ZZ56636		0.37	0.003	0.36	1.27	147.0	<0.2	<10	170	0.91	0.16	7.94	1.09	17.00	6.8	21
ZZ56637		0.40	0.004	0.43	1.15	119.0	<0.2	<10	130	0.84	0.15	8.77	1.23	14.00	6.1	21
ZZ56638		0.36	0.003	0.44	1.42	97.5	<0.2	<10	190	0.90	0.17	3.49	0.51	16.40	6.1	26
ZZ56639		0.36	0.002	0.39	1.20	108	<0.2	<10	160	0.79	0.15	10.10	0.69	12.80	5.2	23
ZZ56640		0.29	0.001	0.14	2.07	72.3	<0.2	<10	370	0.72	0.24	0.67	0.63	20.7	6.5	30
ZZ56641		0.27	0.002	0.41	1.13	124	<0.2	<10	110	0.90	0.13	12.80	0.94	13.30	5.1	18
ZZ56642		0.41	0.002	0.36	1.61	123.0	<0.2	<10	120	1.33	0.20	4.53	1.15	21.0	7.7	29
ZZ56643		0.38	0.004	0.23	1.77	38.2	<0.2	<10	370	0.73	0.27	0.41	1.62	31.6	13.2	30
ZZ56644		0.34	0.005	0.30	2.20	78.2	<0.2	<10	350	1.39	0.24	0.76	0.36	28.9	12.9	36
ZZ56645		0.36	0.004	0.73	1.70	86.2	<0.2	<10	740	1.18	0.19	2.58	1.20	31.8	8.2	54
ZZ56646		0.30	0.002	0.49	1.77	148.0	<0.2	<10	180	2.41	0.21	4.39	4.12	25.9	7.7	28
ZZ56647		0.41	0.005	0.85	1.23	256	<0.2	<10	120	1.75	0.14	7.34	1.48	19.40	6.3	22
ZZ56648		0.35	0.003	0.77	1.85	158.0	<0.2	<10	190	1.81	0.28	2.16	3.92	29.7	8.0	28
ZZ56649		0.34	0.003	0.49	1.62	84.6	<0.2	<10	130	1.18	0.22	4.53	0.90	25.3	7.4	28
ZZ56650		0.32	0.004	1.47	1.09	148	<0.2	<10	80	1.35	0.11	10.80	2.44	15.65	6.1	19
DD027226		0.33	0.003	1.27	2.32	134.5	<0.2	<10	140	1.84	0.20	5.72	5.54	27.9	9.0	33



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**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56629		1.01	10.5	2.95	5.21	<0.05	0.06	0.30	0.030	0.05	13.0	13.1	1.54	663	0.96	0.02
ZZ56630		0.98	21.2	3.34	5.09	0.06	0.06	0.22	0.034	0.05	14.4	15.2	0.57	537	1.35	0.01
ZZ56631		0.72	12.2	2.32	2.73	0.05	0.05	1.06	0.026	0.06	10.4	12.9	3.79	261	2.11	0.03
ZZ56632		0.61	25.1	2.32	2.77	0.06	0.06	0.51	0.024	0.04	9.3	10.4	3.17	637	1.26	0.02
ZZ56633		0.87	7.9	2.76	5.39	<0.05	0.04	0.27	0.026	0.03	11.0	14.1	0.50	221	1.42	0.01
ZZ56634		0.68	15.3	2.27	3.10	0.05	0.07	0.33	0.022	0.05	10.9	9.3	2.29	304	3.23	0.02
ZZ56635		1.07	28.1	3.42	4.31	0.07	0.07	0.33	0.034	0.04	13.6	14.9	0.85	366	3.11	0.01
ZZ56636		0.93	15.1	2.23	3.32	<0.05	0.03	0.21	0.023	0.04	9.2	8.5	1.12	283	4.30	0.02
ZZ56637		0.63	21.7	2.11	2.93	<0.05	0.06	0.31	0.021	0.05	8.0	8.3	0.85	276	6.02	0.02
ZZ56638		0.76	17.8	2.46	3.62	<0.05	0.06	0.29	0.023	0.05	9.9	10.8	0.85	274	3.72	0.02
ZZ56639		1.01	13.8	2.02	2.90	<0.05	0.06	0.17	0.019	0.04	7.5	8.4	1.15	199	5.48	0.02
ZZ56640		1.26	9.0	2.95	6.00	<0.05	0.04	0.10	0.029	0.03	10.2	15.4	0.37	222	4.04	0.01
ZZ56641		0.63	9.5	1.75	2.74	<0.05	0.04	0.28	0.019	0.03	6.2	6.1	2.98	302	3.13	0.02
ZZ56642		0.69	14.7	2.86	3.88	0.05	0.07	0.32	0.030	0.04	12.2	10.5	1.62	349	2.94	0.02
ZZ56643		1.32	21.3	3.40	5.10	0.05	0.03	0.17	0.030	0.05	13.0	14.3	0.42	641	2.07	0.01
ZZ56644		1.22	26.5	3.85	5.25	0.07	0.08	0.40	0.037	0.05	16.6	17.1	0.68	558	2.89	0.01
ZZ56645		0.89	13.2	3.59	4.30	0.09	0.08	0.57	0.029	0.04	18.4	12.1	1.38	379	2.87	0.02
ZZ56646		0.79	9.5	2.93	4.32	0.05	0.07	0.92	0.028	0.04	14.0	11.4	2.63	1140	1.09	0.02
ZZ56647		0.51	11.8	2.30	2.59	0.05	0.04	0.73	0.018	0.04	8.9	10.6	4.41	499	1.26	0.03
ZZ56648		0.94	9.1	3.20	4.91	0.05	0.05	0.58	0.032	0.05	13.0	12.8	1.26	954	0.96	0.02
ZZ56649		0.70	11.1	2.76	3.88	0.06	0.06	0.83	0.026	0.05	13.8	12.3	2.68	366	1.14	0.02
ZZ56650		0.66	10.9	1.74	2.36	<0.05	0.05	2.65	0.016	0.05	8.0	8.1	6.19	584	1.22	0.03
DD027226		1.20	11.2	2.90	4.88	0.06	0.07	1.00	0.030	0.06	15.2	12.7	3.70	1180	1.36	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ56629		0.85	21.2	520	54.7	9.8	<0.001	0.02	0.66	3.8	0.6	0.6	26.8	<0.01	0.03	1.9
ZZ56630		0.97	29.8	200	34.9	8.5	<0.001	0.03	0.72	5.0	0.8	0.6	15.1	<0.01	0.03	4.1
ZZ56631		0.27	23.0	530	168.5	8.1	<0.001	0.07	1.18	4.1	1.1	0.4	87.4	<0.01	0.05	1.8
ZZ56632		0.32	27.0	960	15.1	7.0	0.001	0.07	0.72	3.0	1.1	0.3	44.2	<0.01	0.03	1.2
ZZ56633		1.04	19.7	190	35.7	6.4	<0.001	0.03	0.49	3.2	0.4	0.6	11.6	<0.01	0.03	2.6
ZZ56634		0.47	33.5	450	36.9	7.0	<0.001	0.04	1.38	4.2	1.3	0.4	58.2	<0.01	0.06	2.6
ZZ56635		0.44	41.6	470	19.2	9.2	0.001	0.04	1.02	6.5	2.1	0.5	19.6	<0.01	0.06	3.4
ZZ56636		0.53	40.3	460	17.9	7.4	0.001	0.05	1.48	3.4	1.2	0.4	44.9	<0.01	0.06	1.7
ZZ56637		0.39	47.8	590	17.1	6.1	0.001	0.06	1.79	3.3	1.7	0.4	53.1	<0.01	0.07	1.7
ZZ56638		0.49	37.4	410	18.5	6.5	0.001	0.05	1.47	3.7	1.4	0.4	27.2	<0.01	0.07	1.8
ZZ56639		0.35	39.8	610	22.0	6.5	0.002	0.05	1.68	3.0	1.6	0.4	53.7	<0.01	0.08	1.6
ZZ56640		1.00	39.4	240	22.5	8.0	<0.001	0.03	0.97	3.6	0.8	0.7	14.9	<0.01	0.06	2.6
ZZ56641		0.41	27.1	450	24.9	5.3	0.001	0.06	1.12	2.8	1.1	0.4	66.2	<0.01	0.04	1.1
ZZ56642		0.54	35.7	570	40.9	6.9	<0.001	0.05	1.21	4.5	1.4	0.5	31.6	<0.01	0.05	1.9
ZZ56643		0.96	31.2	420	20.3	11.8	0.001	0.03	0.68	3.7	1.1	0.6	17.3	<0.01	0.04	2.9
ZZ56644		0.50	42.0	300	32.0	12.9	<0.001	0.03	1.07	7.7	1.9	0.6	15.4	<0.01	0.06	4.3
ZZ56645		0.71	34.1	430	87.3	7.8	<0.001	0.06	1.36	8.2	2.8	0.5	37.2	<0.01	0.06	2.1
ZZ56646		0.61	21.4	710	103.5	7.5	<0.001	0.06	0.71	3.2	0.7	0.5	35.7	<0.01	0.03	1.6
ZZ56647		0.32	21.2	760	120.5	6.1	<0.001	0.07	0.82	2.1	0.9	0.3	55.1	<0.01	0.02	0.8
ZZ56648		0.90	20.5	390	729	12.8	<0.001	0.05	3.16	3.7	0.8	0.5	22.0	<0.01	0.03	2.4
ZZ56649		0.66	22.2	570	52.3	7.2	<0.001	0.05	0.87	3.6	0.8	0.4	32.1	<0.01	0.02	1.9
ZZ56650		0.26	22.3	990	152.5	7.4	<0.001	0.08	1.97	2.1	1.0	0.3	82.8	<0.01	0.04	0.7
DD027226		0.66	26.7	670	408	13.9	0.001	0.06	3.34	4.4	0.9	0.6	40.3	<0.01	0.04	2.1



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 Account: RCM

Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157365**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56629		0.023	0.34	1.91	64	0.30	7.61	234	1.3
ZZ56630		0.025	0.42	2.75	61	0.24	10.30	216	1.8
ZZ56631		<0.005	0.57	1.41	73	0.19	14.25	221	1.3
ZZ56632		0.007	0.14	1.14	53	0.12	13.75	156	1.7
ZZ56633		0.015	0.25	0.67	70	0.22	3.74	142	1.0
ZZ56634		0.008	0.58	1.94	88	0.18	15.15	159	1.8
ZZ56635		0.006	0.34	1.53	87	0.19	25.1	148	1.7
ZZ56636		0.011	0.79	2.00	94	0.18	12.30	152	1.0
ZZ56637		0.008	0.83	2.00	118	0.19	15.30	176	1.7
ZZ56638		0.008	0.55	1.31	156	0.15	16.80	114	1.7
ZZ56639		0.006	0.81	2.24	121	0.17	14.85	145	1.3
ZZ56640		0.015	0.56	1.25	104	0.23	5.39	160	1.2
ZZ56641		0.009	0.58	1.67	85	0.18	12.90	130	1.0
ZZ56642		0.008	0.61	1.35	103	0.22	19.00	179	1.8
ZZ56643		0.020	0.19	1.51	75	0.32	7.77	210	0.7
ZZ56644		0.006	0.43	1.63	99	0.16	22.1	174	1.9
ZZ56645		0.013	0.32	1.78	122	0.24	38.1	273	3.6
ZZ56646		0.013	0.52	1.40	60	0.37	11.20	359	1.2
ZZ56647		0.012	0.59	1.30	48	0.22	6.87	197	0.8
ZZ56648		0.020	0.40	1.86	67	0.37	7.93	610	1.2
ZZ56649		0.015	0.26	1.33	55	0.25	10.80	216	1.3
ZZ56650		0.008	0.71	2.16	42	0.31	10.80	277	1.1
DD027226		0.015	0.58	1.37	81	0.33	18.15	897	1.8



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**CERTIFICATE OF ANALYSIS WH12157365**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12157366**

Project: ATAC- Regional Area D MooseLake  
 P.O. No.: Soil 15  
 This report is for 141 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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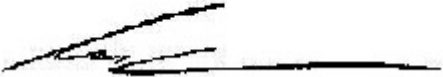
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023350		0.23	0.003	0.93	0.57	103	<0.2	<10	50	0.83	0.09	15.45	1.61	8.93	3.9	13
DD023351		0.20	0.003	0.88	0.85	201	<0.2	<10	70	1.29	0.13	11.65	1.56	14.25	6.0	17
DD023352		0.24	0.002	0.42	1.54	60.0	<0.2	<10	290	1.05	0.22	4.41	1.51	22.9	7.9	26
DD023353		0.20	0.003	1.45	1.34	85.9	<0.2	<10	130	2.00	0.21	8.11	1.70	27.9	6.9	25
DD023354		0.23	0.001	0.70	1.43	96.2	<0.2	<10	110	1.19	0.21	6.95	3.53	22.6	7.5	24
DD023355		0.22	0.003	1.61	0.90	76	<0.2	10	100	2.04	0.13	12.80	1.83	21.3	4.1	19
DD023356		0.21	0.003	0.62	1.56	178.0	<0.2	<10	100	1.59	0.22	5.57	2.57	25.0	9.2	24
DD023357		0.20	0.005	0.45	1.45	127.0	<0.2	<10	370	1.74	0.23	1.60	1.96	31.9	8.6	30
DD023358		0.23	0.005	0.47	1.20	191.5	<0.2	<10	190	1.05	0.19	7.22	1.22	17.70	10.2	22
DD023359		0.22	0.004	0.36	1.65	99.9	<0.2	<10	210	1.50	0.20	8.36	0.67	26.1	9.5	28
DD023360		0.20	0.005	0.55	1.55	110.5	<0.2	<10	890	1.33	0.20	3.33	1.70	20.3	10.0	27
DD023361		0.21	0.002	0.74	0.53	92	<0.2	<10	70	1.22	0.09	14.05	2.71	11.00	4.5	11
DD023362		0.28	0.003	0.46	1.27	134.0	<0.2	<10	410	1.04	0.26	5.10	1.29	21.6	14.1	21
DD023363		0.25	0.006	1.62	2.13	86.8	<0.2	<10	800	1.92	0.24	0.38	7.64	56.9	19.8	41
DD023364		0.26	0.003	0.24	1.33	82.4	<0.2	<10	140	0.99	0.19	3.03	0.70	20.2	10.3	24
DD023365		0.20	0.004	0.37	1.56	47.4	<0.2	<10	370	1.37	0.23	0.94	1.84	35.6	14.4	26
DD023366		0.25	0.003	0.29	0.88	59.0	<0.2	<10	370	0.62	0.14	3.39	0.43	13.60	8.3	16
DD023367		0.23	0.002	0.31	0.92	64.5	<0.2	<10	150	0.88	0.14	9.32	0.73	15.60	9.7	16
DD023368		0.19	0.002	0.16	1.79	70.6	<0.2	<10	960	1.09	0.22	0.71	0.47	37.0	11.1	30
DD023369		0.31	0.003	0.31	1.37	57.4	<0.2	<10	450	0.80	0.22	2.25	0.80	22.0	11.1	24
DD023370		0.20	0.008	0.46	1.64	242	<0.2	<10	510	1.16	0.17	14.85	2.40	31.2	12.0	24
DD023371		0.18	0.007	0.38	0.90	97.4	<0.2	<10	200	0.59	0.13	7.27	1.23	13.55	7.7	16
DD023372		0.22	0.007	0.16	1.04	51.1	<0.2	<10	150	0.64	0.16	7.56	1.04	23.3	8.9	20
DD023373		0.25	0.007	0.29	1.24	65.0	<0.2	<10	420	0.68	0.19	2.87	0.68	20.2	11.2	22
DD023374		0.25	0.002	0.05	2.11	48.3	<0.2	<10	270	0.73	0.25	0.18	0.29	19.85	9.7	31
DD023375		0.32	0.006	0.55	0.89	101.0	<0.2	<10	570	0.82	0.19	5.39	1.18	14.70	10.6	17
DD023376		0.20	0.001	0.23	0.55	70	<0.2	<10	60	0.46	0.08	12.40	0.85	10.10	5.3	10
DD023377		0.22	0.004	0.52	0.98	152.0	<0.2	<10	200	0.90	0.15	5.45	1.03	16.60	8.5	20
DD023378		0.26	0.002	0.47	0.90	127.5	<0.2	<10	230	0.80	0.15	6.29	1.38	14.55	8.4	17
DD023379		0.22	0.002	0.13	0.18	73	<0.2	<10	40	0.39	0.02	16.90	0.75	2.46	1.5	3
DD023380		0.24	0.002	0.72	0.98	86.3	<0.2	<10	290	0.86	0.19	2.68	0.76	15.45	10.6	19
DD023381		0.23	0.006	0.64	0.88	98.9	<0.2	<10	200	0.75	0.16	7.26	1.20	14.60	9.9	18
DD023382		0.21	0.002	0.40	1.32	199.0	<0.2	<10	230	1.03	0.16	3.50	0.82	18.20	9.3	24
DD023383		0.28	0.006	0.76	1.29	94.5	<0.2	<10	750	1.06	0.17	4.98	0.96	21.4	9.3	23
DD023384		0.32	0.006	0.48	0.43	71	<0.2	<10	50	0.49	0.06	15.85	1.40	7.35	3.9	8
DD023385		0.26	0.004	0.65	0.91	128	<0.2	<10	70	0.72	0.12	10.50	1.01	15.20	6.8	17
DD023386		0.29	0.002	0.60	0.71	96	<0.2	<10	70	0.68	0.08	13.50	1.77	10.05	4.6	12
DD023387		0.27	0.003	0.37	1.79	104.0	<0.2	<10	180	1.06	0.25	1.32	1.57	33.8	10.4	30
DD023388		0.19	0.004	0.78	0.52	120	<0.2	<10	40	0.71	0.07	14.70	1.91	7.97	4.3	10
DD023389		0.15	0.004	1.04	1.14	111.0	<0.2	<10	90	0.86	0.14	9.92	3.37	16.60	5.9	19



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**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023350		0.44	9.8	1.06	1.41	<0.05	0.04	2.30	0.013	0.04	4.8	5.6	8.64	285	1.29	0.01
DD023351		0.54	12.8	1.75	1.99	<0.05	0.06	2.69	0.018	0.04	8.5	8.1	6.03	533	1.58	0.01
DD023352		1.05	9.3	2.72	4.17	<0.05	0.04	0.91	0.029	0.05	9.5	14.4	2.59	283	1.53	<0.01
DD023353		0.59	8.8	2.24	3.23	0.05	0.03	2.20	0.022	0.05	12.5	12.3	4.56	354	0.98	0.02
DD023354		0.83	9.1	2.38	3.79	<0.05	0.03	1.25	0.030	0.04	11.1	10.9	4.36	616	1.31	<0.01
DD023355		0.71	8.4	1.46	1.83	0.05	0.03	8.54	0.019	0.04	11.1	7.3	6.69	392	0.86	0.02
DD023356		0.83	12.7	2.49	4.35	<0.05	0.05	1.20	0.028	0.04	12.8	12.5	2.95	519	3.19	<0.01
DD023357		0.78	36.1	3.39	3.01	0.08	0.06	0.67	0.044	0.06	19.2	14.1	0.50	528	3.35	<0.01
DD023358		0.53	31.9	2.79	3.37	0.06	0.05	0.73	0.029	0.05	11.2	15.1	2.44	507	3.15	<0.01
DD023359		0.74	21.6	2.86	4.05	0.07	0.07	0.34	0.033	0.05	14.5	14.0	2.96	449	3.72	0.01
DD023360		0.52	39.9	3.10	4.10	0.05	0.06	0.54	0.034	0.05	11.2	16.6	1.20	340	4.82	0.01
DD023361		0.69	10.9	1.05	1.32	<0.05	0.02	0.94	0.014	0.04	4.9	5.8	7.78	449	1.09	0.02
DD023362		1.13	53.9	3.27	4.00	0.05	0.06	0.55	0.034	0.08	9.8	21.7	1.28	530	2.63	<0.01
DD023363		0.82	56.7	3.91	3.69	0.15	0.11	0.66	0.052	0.07	28.9	21.7	0.35	1100	5.44	<0.01
DD023364		0.55	26.3	3.11	3.85	0.06	0.05	0.63	0.035	0.04	11.2	17.6	1.53	402	2.67	<0.01
DD023365		0.79	46.8	3.64	3.48	0.08	0.07	0.36	0.042	0.06	16.2	19.8	0.67	920	3.52	<0.01
DD023366		0.47	34.4	2.65	2.69	0.06	0.07	0.24	0.025	0.05	7.4	13.3	1.05	312	2.58	0.01
DD023367		0.72	19.5	2.20	2.48	0.05	0.05	0.18	0.022	0.05	7.5	12.1	3.90	402	3.27	0.02
DD023368		1.09	22.1	3.90	4.58	0.08	0.06	0.25	0.038	0.05	16.6	17.0	0.39	509	2.77	0.01
DD023369		0.87	37.8	3.03	4.12	0.06	0.05	0.37	0.030	0.06	11.3	16.8	0.48	384	2.30	0.02
DD023370		1.18	21.5	2.63	2.97	0.06	0.07	1.62	0.029	0.05	15.5	13.3	0.23	787	15.85	0.02
DD023371		0.76	21.5	2.24	2.58	<0.05	0.04	0.19	0.022	0.06	7.4	12.0	2.75	328	2.32	0.02
DD023372		0.95	14.5	2.29	2.46	0.05	0.05	0.09	0.020	0.05	9.6	9.9	4.22	325	12.00	0.02
DD023373		0.71	24.0	3.14	3.84	0.05	0.04	0.23	0.030	0.05	8.7	14.8	1.41	549	2.45	0.01
DD023374		1.46	14.1	3.82	6.55	0.05	0.08	0.05	0.038	0.05	9.7	20.0	0.40	260	2.70	0.01
DD023375		0.71	36.3	2.99	2.67	0.06	0.06	0.55	0.027	0.06	8.0	11.7	2.00	430	4.02	0.02
DD023376		0.49	12.9	1.44	1.51	<0.05	0.04	0.23	0.014	0.04	5.1	7.6	4.71	267	1.82	0.02
DD023377		0.55	21.7	2.76	2.50	0.05	0.06	0.43	0.026	0.06	11.0	11.3	2.73	385	2.23	0.02
DD023378		0.54	19.4	2.46	2.43	0.05	0.05	0.61	0.024	0.05	8.6	11.6	3.44	353	2.97	0.02
DD023379		0.25	2.9	0.27	0.38	0.05	0.03	0.34	<0.005	0.01	1.2	1.3	10.45	479	0.28	0.03
DD023380		1.37	30.0	2.68	2.95	0.05	0.05	0.27	0.035	0.06	8.6	12.9	0.81	505	2.18	0.02
DD023381		0.71	31.7	2.70	2.34	0.06	0.06	1.94	0.028	0.07	8.3	12.5	2.18	441	3.16	0.02
DD023382		0.84	20.2	2.87	3.60	0.06	0.07	0.29	0.033	0.04	11.4	13.7	1.81	339	2.58	0.02
DD023383		0.61	28.9	3.22	3.00	0.06	0.07	0.47	0.032	0.04	14.3	12.5	2.20	400	3.53	0.02
DD023384		0.29	9.0	0.93	1.11	<0.05	0.05	1.99	0.009	0.03	3.8	5.7	7.35	247	1.06	0.03
DD023385		0.55	12.2	1.74	2.32	<0.05	0.06	1.77	0.017	0.05	9.3	9.3	6.48	395	1.65	0.02
DD023386		0.54	8.8	1.16	1.79	<0.05	0.05	1.51	0.012	0.04	5.4	6.6	7.61	368	1.26	0.02
DD023387		1.44	11.8	3.08	5.50	0.06	0.04	1.21	0.032	0.05	17.3	15.2	0.89	762	1.10	0.02
DD023388		0.57	9.9	1.03	1.26	<0.05	0.06	2.31	0.011	0.04	3.9	6.7	8.51	227	1.47	0.03
DD023389		0.88	9.1	1.80	2.83	<0.05	0.05	3.28	0.021	0.04	8.7	8.4	5.48	549	1.42	0.02

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**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023350		0.12	15.5	770	111.5	5.4	0.001	0.06	1.74	1.5	0.2	0.3	94.7	<0.01	0.03	0.5
DD023351		0.24	21.7	860	134.0	6.1	<0.001	0.06	1.71	2.7	1.2	0.3	77.8	<0.01	0.01	0.9
DD023352		1.01	22.4	360	46.1	11.7	<0.001	0.03	1.11	2.9	<0.2	0.6	31.7	<0.01	0.05	1.9
DD023353		0.66	19.5	810	115.0	7.1	0.001	0.07	1.25	2.7	0.3	0.5	78.9	<0.01	0.01	1.1
DD023354		0.63	17.5	670	163.0	9.3	<0.001	0.05	2.10	2.5	0.2	0.5	47.9	<0.01	0.01	0.9
DD023355		0.31	12.8	1120	193.5	5.7	<0.001	0.10	2.54	1.4	0.6	0.4	117.0	<0.01	<0.01	0.4
DD023356		0.79	27.3	510	148.5	8.1	0.001	0.05	1.79	3.2	0.5	0.6	51.1	<0.01	0.02	1.5
DD023357		0.30	43.8	1220	32.1	8.4	0.001	0.07	1.62	6.8	2.1	0.4	45.7	<0.01	0.03	1.9
DD023358		0.32	35.5	800	47.4	6.2	0.001	0.05	1.43	6.0	1.7	0.4	83.4	<0.01	0.05	2.0
DD023359		0.46	33.5	510	30.6	8.5	<0.001	0.04	0.99	6.5	1.4	0.6	66.0	<0.01	0.05	2.7
DD023360		0.37	47.0	730	34.6	6.4	0.001	0.05	1.56	6.6	1.7	0.6	59.6	<0.01	0.05	2.2
DD023361		0.12	16.4	740	111.5	5.8	0.001	0.08	2.50	0.9	0.7	0.3	105.0	<0.01	0.02	0.3
DD023362		0.44	45.8	790	127.0	7.6	0.001	0.03	1.34	6.0	1.0	0.5	105.5	<0.01	0.06	3.8
DD023363		0.48	83.3	1280	36.8	9.2	0.003	0.05	2.19	12.0	4.3	0.5	38.3	<0.01	0.05	5.8
DD023364		0.38	31.7	470	21.6	5.9	<0.001	0.03	0.97	5.6	1.1	0.4	35.7	<0.01	0.03	2.2
DD023365		0.37	48.6	870	26.5	8.7	0.002	0.03	1.26	7.9	1.8	0.5	32.1	<0.01	0.04	4.3
DD023366		0.38	33.0	680	15.3	4.5	0.001	0.02	1.26	5.1	1.4	0.3	63.2	<0.01	0.04	2.2
DD023367		0.41	32.1	750	23.1	8.2	0.001	0.03	1.26	3.6	1.2	0.3	68.9	<0.01	0.05	1.3
DD023368		0.41	34.5	370	64.5	8.6	0.001	0.01	0.88	7.2	1.3	0.5	16.9	<0.01	0.06	3.4
DD023369		0.71	35.9	740	17.3	8.9	0.001	0.03	1.10	4.2	1.2	0.4	22.7	<0.01	0.05	1.4
DD023370		0.48	52.8	560	45.9	8.5	0.001	0.03	3.01	7.6	1.4	0.4	21.9	0.01	0.05	2.4
DD023371		0.36	24.3	830	48.9	7.5	0.001	0.04	1.35	3.1	1.1	0.3	65.8	<0.01	0.05	0.7
DD023372		0.47	25.1	890	13.9	11.1	<0.001	0.06	1.01	2.6	0.9	0.3	57.2	<0.01	0.05	0.8
DD023373		0.52	28.9	560	21.6	6.8	<0.001	0.02	1.03	4.1	1.2	0.4	32.1	<0.01	0.05	1.4
DD023374		0.98	27.7	180	25.7	11.1	<0.001	<0.01	0.86	3.9	0.6	0.7	9.8	<0.01	0.05	3.7
DD023375		0.31	37.0	840	108.5	6.3	0.001	0.04	2.03	5.0	1.6	0.4	66.9	<0.01	0.06	2.2
DD023376		0.29	17.5	570	34.4	3.8	0.001	0.02	0.97	2.3	0.8	0.2	92.0	<0.01	0.03	0.9
DD023377		0.40	28.4	920	43.5	7.7	0.001	0.04	1.35	4.5	1.4	0.3	51.3	<0.01	0.05	1.4
DD023378		0.40	28.9	700	48.3	4.7	0.001	0.03	1.54	3.9	1.1	0.3	54.2	<0.01	0.05	1.3
DD023379		0.18	3.8	430	16.8	1.7	<0.001	0.05	0.37	0.4	0.5	<0.2	100.5	<0.01	0.02	0.2
DD023380		0.34	36.2	540	32.6	6.5	0.001	0.04	1.19	4.8	1.6	0.4	34.5	<0.01	0.08	1.2
DD023381		0.27	31.3	940	30.8	6.0	0.001	0.03	1.51	5.3	1.5	0.3	81.9	<0.01	0.05	1.8
DD023382		0.39	31.3	590	28.5	6.2	0.001	0.02	1.28	5.9	1.2	0.4	33.0	<0.01	0.05	1.8
DD023383		0.35	30.9	950	54.8	6.3	0.001	0.06	2.15	5.6	1.7	0.4	60.8	0.01	0.06	1.2
DD023384		0.29	11.1	540	93.6	3.4	0.001	0.02	1.29	1.8	0.8	<0.2	121.0	<0.01	0.02	0.9
DD023385		0.36	20.5	820	72.6	6.2	<0.001	0.03	1.22	3.1	1.0	0.2	63.6	<0.01	0.04	1.1
DD023386		0.26	13.9	740	84.5	5.9	<0.001	0.04	1.22	1.8	0.8	0.2	91.1	<0.01	0.03	0.6
DD023387		0.84	26.1	470	43.8	10.1	<0.001	0.02	0.94	4.3	0.8	0.6	19.4	<0.01	0.05	2.1
DD023388		0.22	15.2	700	268	5.7	<0.001	0.04	1.79	1.6	0.9	0.2	99.9	<0.01	0.03	0.8
DD023389		0.50	17.3	740	167.0	7.9	<0.001	0.03	1.78	2.9	0.9	0.3	59.8	<0.01	0.03	0.9

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023350		<0.005	0.55	1.67	30	0.17	6.80	189	1.4
DD023351		0.005	0.71	2.19	45	0.25	11.60	241	1.5
DD023352		0.017	0.39	2.82	56	0.37	4.64	160	1.2
DD023353		0.016	0.68	3.18	48	0.43	8.23	266	0.9
DD023354		0.014	0.33	1.81	51	0.25	10.20	450	0.8
DD023355		0.007	0.33	2.91	39	0.30	9.12	304	0.8
DD023356		0.014	0.68	1.43	50	0.40	10.65	467	1.4
DD023357		<0.005	0.71	3.50	82	0.13	36.7	257	1.7
DD023358		<0.005	1.22	1.66	79	0.13	23.1	258	1.8
DD023359		0.005	0.36	1.65	87	0.16	22.0	151	2.0
DD023360		<0.005	0.34	1.58	126	0.10	26.0	220	1.8
DD023361		<0.005	0.46	1.73	24	0.36	5.28	434	0.9
DD023362		0.008	0.88	1.25	49	0.09	12.00	231	2.8
DD023363		<0.005	0.43	4.21	141	0.12	56.2	351	4.5
DD023364		<0.005	0.17	1.14	69	0.08	12.75	150	1.3
DD023365		<0.005	0.25	1.73	67	0.06	22.2	171	2.4
DD023366		<0.005	0.21	0.85	49	0.10	14.30	129	1.7
DD023367		0.007	0.37	1.58	45	0.13	11.05	162	1.5
DD023368		<0.005	0.31	1.85	71	0.13	21.6	140	1.3
DD023369		0.016	0.45	1.15	54	0.16	12.65	123	1.2
DD023370		<0.005	1.70	3.94	74	0.39	31.5	221	1.6
DD023371		0.007	0.25	1.32	41	0.13	10.75	170	1.1
DD023372		0.011	0.48	1.10	33	0.29	7.72	137	1.2
DD023373		0.010	0.17	1.59	62	0.14	9.12	146	1.0
DD023374		0.015	0.30	0.53	77	0.22	3.35	102	2.5
DD023375		<0.005	0.41	1.68	57	0.12	17.75	199	1.6
DD023376		0.006	0.25	1.35	30	0.12	7.77	149	1.0
DD023377		0.005	0.34	1.52	52	0.16	18.20	198	1.5
DD023378		0.007	0.38	1.35	45	0.16	13.25	265	1.2
DD023379		<0.005	0.45	0.51	4	0.05	1.56	107	1.1
DD023380		0.005	0.34	1.03	47	0.14	17.45	148	1.2
DD023381		<0.005	0.30	1.73	53	0.10	18.10	189	1.4
DD023382		0.005	0.27	1.12	58	0.14	17.40	180	1.6
DD023383		<0.005	0.38	2.08	71	0.13	24.9	144	1.4
DD023384		<0.005	0.24	2.23	21	0.15	6.57	140	1.7
DD023385		0.007	0.61	1.42	38	0.18	16.80	188	1.6
DD023386		0.005	0.47	1.78	32	0.19	8.59	227	1.3
DD023387		0.025	0.66	1.56	61	0.30	12.35	273	1.0
DD023388		<0.005	0.63	1.77	25	0.19	6.31	213	1.7
DD023389		0.012	0.36	1.51	41	0.23	10.35	377	1.2



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023390		0.20	0.009	1.19	1.65	139.5	<0.2	<10	130	1.16	0.21	5.19	3.65	23.5	8.9	26
DD023391		0.27	0.003	0.24	2.00	30.3	<0.2	<10	220	0.76	0.28	0.24	0.77	46.7	7.9	27
DD023392		0.27	0.005	1.14	1.06	86.4	<0.2	<10	460	0.80	0.19	4.16	1.36	15.05	7.4	24
DD023393		0.19	0.003	0.20	1.74	41.6	<0.2	<10	150	0.98	0.27	0.78	1.55	36.3	10.0	29
DD023394		0.24	0.005	1.33	0.64	611	<0.2	<10	120	0.81	0.17	14.85	2.63	14.40	8.3	16
DD023395		0.38	0.005	0.84	0.48	343	<0.2	<10	110	0.61	0.11	13.45	1.39	8.87	5.0	13
DD023396		0.23	0.006	0.82	1.00	151.0	<0.2	<10	160	0.77	0.16	7.93	2.41	16.55	7.0	18
DD023397		0.21	0.004	0.82	0.58	117.5	<0.2	<10	510	0.68	0.11	9.00	2.35	9.19	5.5	15
DD023398		0.23	0.004	0.84	1.16	123	<0.2	<10	90	0.77	0.15	10.35	3.90	19.75	6.6	18
DD023399		0.19	0.006	1.81	1.41	207	<0.2	<10	130	1.44	0.17	9.84	4.34	18.00	6.7	23
DD023400		0.24	0.006	1.29	0.65	149	<0.2	<10	80	0.81	0.09	13.70	4.18	8.74	4.9	12
DD023401		0.20	0.004	1.03	1.39	96.3	<0.2	<10	100	0.98	0.18	8.22	3.92	21.9	7.6	23
DD023402		0.30	0.005	0.75	0.48	178	<0.2	<10	50	0.70	0.08	17.85	3.35	6.93	3.8	9
DD023403		0.25	0.003	0.40	0.24	103	<0.2	<10	30	0.45	0.04	19.85	1.96	4.28	2.1	5
DD023404		0.30	0.005	1.70	1.03	118.5	<0.2	<10	80	1.09	0.17	9.80	3.15	18.35	7.0	19
DD023405		0.18	0.002	1.32	1.45	97.8	<0.2	<10	70	1.14	0.17	8.44	4.32	32.8	7.8	28
DD023406		0.22	0.003	0.42	2.07	92.0	<0.2	<10	160	1.24	0.27	2.52	1.65	29.9	9.6	36
DD023407		0.27	0.002	0.58	0.37	119	<0.2	<10	40	0.57	0.06	18.65	1.82	5.41	2.9	9
DD023408		0.23	0.009	2.05	0.47	331	<0.2	<10	230	0.87	0.10	12.95	5.35	7.20	4.2	13
DD023409		0.22	0.007	0.92	1.14	157.0	<0.2	<10	150	0.77	0.16	9.21	3.16	18.95	6.9	19
DD023410		0.25	0.007	2.62	0.60	173	<0.2	<10	100	0.86	0.09	14.25	2.91	8.43	4.5	12
DD023411		0.31	0.003	3.51	0.51	198	<0.2	<10	50	0.69	0.08	16.70	7.65	7.64	3.9	10
DD023412		0.21	0.005	1.26	1.32	188.5	<0.2	<10	150	0.99	0.18	8.44	2.48	20.2	5.1	21
DD023413		0.19	0.003	1.09	0.95	179	<0.2	<10	60	0.81	0.08	15.75	2.35	15.85	4.2	14
DD023414		0.24	0.006	1.04	0.67	402	<0.2	<10	190	0.94	0.13	13.30	1.13	10.15	5.3	17
DD023415		0.24	0.008	0.92	0.55	448	<0.2	<10	340	0.67	0.21	9.48	0.98	7.57	4.1	16
DD023416		0.20	0.011	1.78	0.93	229	<0.2	<10	560	0.92	0.18	2.38	2.22	8.89	4.4	33
DD023417		0.30	0.003	0.54	0.50	84	<0.2	<10	60	0.84	0.07	21.6	1.10	7.19	3.5	10
DD023418		0.21	0.003	0.56	1.31	75.9	<0.2	<10	120	1.14	0.19	8.17	0.89	20.0	7.8	21
DD023419		0.21	0.002	0.59	0.62	74	<0.2	<10	60	0.59	0.07	16.10	0.58	13.90	5.3	12
DD023420		0.20	0.003	0.50	1.51	153.0	<0.2	<10	180	1.23	0.23	2.96	0.85	29.0	9.7	26
DD023421		0.16	0.002	0.34	1.12	94.9	<0.2	<10	100	0.96	0.19	1.80	1.00	15.60	10.4	21
DD023422		0.18	0.003	0.70	1.18	115	<0.2	<10	110	1.14	0.15	10.00	1.41	17.50	6.3	22
DD023423		0.24	0.003	0.60	0.73	119	<0.2	<10	70	1.00	0.12	11.95	1.83	12.95	5.9	15
DD023424		0.18	0.003	0.43	1.02	81.2	<0.2	<10	90	0.89	0.15	7.44	1.06	18.35	7.0	17
DD023425		0.17	0.003	0.40	1.31	54.7	<0.2	<10	180	0.89	0.23	1.45	0.56	22.6	11.5	25
DD023426		0.22	0.004	0.50	0.77	138.5	<0.2	<10	140	0.71	0.15	9.09	1.33	13.35	8.0	16
DD023427		0.24	0.003	0.15	1.59	49.4	<0.2	<10	450	1.21	0.26	0.31	0.51	29.3	12.0	29
DD023428		0.15	0.002	1.11	0.55	45	<0.2	<10	60	1.22	0.09	14.10	0.91	16.40	3.6	14
DD023429		0.20	0.005	0.78	1.25	109.5	<0.2	<10	180	1.03	0.19	4.23	1.79	26.9	9.0	23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023390		0.91	11.4	2.74	4.35	0.05	0.07	4.04	0.030	0.04	13.3	12.4	3.03	537	1.74	0.01
DD023391		1.55	8.7	2.76	7.21	0.06	0.03	3.11	0.030	0.04	19.0	13.2	0.32	256	1.86	0.01
DD023392		1.15	36.1	2.59	3.24	0.06	0.04	1.58	0.031	0.05	7.3	12.0	1.99	245	5.02	0.02
DD023393		1.37	9.5	3.13	5.38	0.05	0.04	0.21	0.032	0.06	17.3	14.3	0.49	407	1.45	0.01
DD023394		0.77	16.1	2.39	1.90	<0.05	0.06	6.19	0.026	0.06	7.0	5.9	4.05	314	4.46	0.02
DD023395		0.65	15.6	1.52	1.38	<0.05	0.04	6.19	0.018	0.05	4.4	4.2	5.51	289	3.37	0.02
DD023396		1.16	18.2	1.93	2.68	<0.05	0.03	3.35	0.023	0.05	8.0	8.8	3.75	522	1.91	0.02
DD023397		0.85	25.3	1.72	1.59	<0.05	0.04	1.65	0.020	0.04	4.8	5.2	4.43	370	2.26	0.02
DD023398		0.81	9.1	1.84	2.91	<0.05	0.05	3.68	0.019	0.04	9.4	10.1	5.81	565	1.96	0.02
DD023399		1.21	10.3	2.34	3.72	<0.05	0.08	14.35	0.031	0.05	13.1	9.9	5.37	668	2.64	0.02
DD023400		0.64	11.7	1.25	1.61	<0.05	0.06	10.60	0.014	0.04	4.5	7.2	7.94	394	1.80	0.03
DD023401		0.90	10.4	2.25	3.69	<0.05	0.06	4.53	0.024	0.04	11.1	11.2	4.54	579	1.43	0.02
DD023402		0.49	8.7	0.97	1.28	0.07	0.04	2.83	0.014	0.04	3.3	5.9	8.25	312	1.34	0.01
DD023403		0.35	4.4	0.55	0.68	0.07	0.02	1.89	0.006	0.03	2.0	3.3	9.13	231	0.83	0.02
DD023404		0.55	13.3	2.11	2.63	0.08	0.03	1.27	0.021	0.05	8.9	10.5	5.35	534	1.38	0.01
DD023405		0.60	12.1	2.39	2.79	0.09	0.05	1.48	0.024	0.04	15.6	9.5	4.39	502	1.41	0.01
DD023406		1.05	16.9	3.33	6.08	0.08	0.06	1.05	0.039	0.07	16.1	15.6	1.72	532	1.45	0.01
DD023407		0.40	7.0	0.71	0.97	0.08	0.02	3.11	0.010	0.04	2.7	4.3	9.83	180	0.99	0.02
DD023408		0.46	14.6	1.41	1.56	0.07	0.03	7.16	0.017	0.06	3.9	4.7	5.81	266	3.78	0.01
DD023409		0.75	9.6	1.87	3.45	0.08	0.03	4.00	0.023	0.04	7.3	9.9	5.27	647	1.06	0.01
DD023410		0.44	9.3	1.27	1.61	0.07	0.04	20.7	0.013	0.04	4.3	6.3	7.97	298	1.92	0.01
DD023411		0.53	7.4	1.03	1.45	0.08	0.03	36.7	0.014	0.04	3.5	5.9	9.49	362	1.41	0.01
DD023412		0.89	10.3	2.18	3.53	0.07	0.03	6.66	0.027	0.03	10.1	8.1	4.56	333	2.15	0.01
DD023413		0.63	6.1	1.03	1.57	0.06	0.04	13.60	0.018	0.03	8.9	4.0	8.78	416	1.30	0.01
DD023414		0.48	15.8	1.69	1.96	0.06	0.06	7.83	0.018	0.06	5.3	4.9	5.94	304	3.56	0.01
DD023415		0.91	25.1	1.63	2.49	0.08	0.03	3.43	0.034	0.10	3.6	3.3	1.99	159	5.01	<0.01
DD023416		0.67	27.6	2.10	2.71	0.09	0.05	3.51	0.033	0.06	5.4	5.6	0.93	206	5.72	<0.01
DD023417		0.68	7.6	0.82	1.39	0.08	0.03	1.44	0.010	0.05	4.4	4.9	6.97	367	0.81	0.01
DD023418		0.70	11.7	2.20	4.09	0.07	0.05	1.30	0.023	0.03	11.3	11.0	4.05	623	1.31	0.01
DD023419		0.43	7.7	0.98	1.38	0.07	0.04	2.33	0.012	0.03	7.1	4.7	9.14	340	1.09	0.01
DD023420		0.85	17.4	3.05	4.46	0.11	0.04	1.15	0.031	0.05	14.7	14.8	1.71	547	1.74	<0.01
DD023421		0.41	23.6	3.21	3.78	0.09	0.05	0.43	0.030	0.04	7.7	16.8	1.17	465	2.66	<0.01
DD023422		0.66	11.0	2.04	3.10	0.10	0.04	1.73	0.023	0.04	9.8	9.4	5.77	402	1.74	0.01
DD023423		0.52	11.7	1.58	2.15	0.08	0.04	1.38	0.017	0.05	7.0	7.9	6.39	399	2.41	0.01
DD023424		0.51	10.6	2.12	2.82	0.07	0.04	1.01	0.022	0.04	8.9	10.3	4.21	397	1.53	0.01
DD023425		0.73	25.5	3.42	4.31	0.10	0.06	0.42	0.032	0.05	12.6	16.3	1.00	530	2.49	<0.01
DD023426		0.53	27.9	2.31	2.47	0.09	0.04	0.77	0.024	0.06	7.5	9.5	2.12	423	4.21	0.01
DD023427		0.95	32.1	3.90	4.96	0.10	0.04	0.27	0.037	0.05	15.1	17.8	0.41	614	2.88	<0.01
DD023428		0.34	7.9	1.40	1.44	0.08	0.05	0.72	0.020	0.05	8.4	6.4	7.85	164	0.98	0.02
DD023429		0.76	22.2	2.71	3.16	0.12	0.07	0.48	0.032	0.05	16.5	10.6	0.93	412	4.54	<0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD023390		0.66	23.1	710	245	9.0	<0.001	0.03	2.14	4.9	1.1	0.5	35.9	<0.01	0.05	1.6
DD023391		1.13	20.3	290	42.3	10.0	<0.001	<0.01	0.79	4.5	0.7	0.8	12.1	0.01	0.05	3.7
DD023392		0.61	66.1	580	64.7	7.3	0.003	0.02	1.64	5.0	3.3	0.5	61.8	<0.01	0.06	1.5
DD023393		0.98	22.1	370	20.3	9.9	<0.001	0.01	0.73	4.9	0.7	0.6	13.9	<0.01	0.05	2.6
DD023394		0.25	31.6	940	156.0	6.0	0.001	0.03	5.48	4.2	1.3	0.3	70.3	<0.01	0.04	1.8
DD023395		0.20	22.5	700	96.8	4.9	0.001	0.03	2.08	3.2	1.3	0.2	87.4	<0.01	0.04	1.4
DD023396		0.45	22.8	870	81.8	5.9	<0.001	0.04	1.73	2.2	1.4	0.3	53.7	<0.01	0.04	0.5
DD023397		0.32	34.5	530	43.7	4.9	0.003	0.04	1.28	2.8	2.3	0.3	87.2	<0.01	0.04	0.5
DD023398		0.53	17.2	650	88.1	7.0	<0.001	0.03	1.61	3.2	1.0	0.4	54.7	<0.01	0.03	1.1
DD023399		0.45	24.8	700	322	10.1	<0.001	0.03	3.62	4.7	1.4	0.5	62.2	<0.01	0.05	1.5
DD023400		0.24	17.1	710	230	5.3	<0.001	0.04	1.75	2.2	1.0	0.2	86.3	<0.01	0.03	0.8
DD023401		0.60	20.1	660	239	8.6	<0.001	0.03	2.06	3.4	0.9	0.4	49.7	<0.01	0.05	1.3
DD023402		0.20	16.7	390	171.5	3.6	<0.001	0.03	1.88	1.6	0.4	0.2	117.0	<0.01	0.03	1.0
DD023403		0.11	9.4	250	109.0	2.2	0.001	0.03	1.44	1.0	0.3	<0.2	119.0	<0.01	0.02	0.6
DD023404		0.42	18.9	840	433	7.4	<0.001	0.06	2.02	2.2	1.0	0.3	63.7	<0.01	0.01	0.7
DD023405		0.36	23.2	1060	371	7.3	<0.001	0.09	1.89	2.8	0.2	0.3	52.6	<0.01	0.06	0.9
DD023406		0.92	30.6	580	83.1	11.8	0.001	0.05	1.27	4.5	0.8	0.6	21.7	<0.01	0.03	2.1
DD023407		0.12	12.9	410	99.0	3.9	0.001	0.04	1.47	1.2	0.4	0.2	119.0	<0.01	0.04	0.5
DD023408		0.13	24.8	730	351	5.3	0.001	0.08	2.53	2.2	1.5	0.3	106.5	<0.01	0.05	0.8
DD023409		0.60	18.2	590	164.0	7.3	0.001	0.04	1.74	2.2	1.0	0.4	50.9	<0.01	0.02	0.9
DD023410		0.18	19.8	750	268	5.3	<0.001	0.05	3.21	2.1	0.6	0.2	88.5	<0.01	0.05	0.6
DD023411		0.17	16.0	510	559	4.6	<0.001	0.04	4.67	1.7	1.5	0.2	99.2	<0.01	0.01	0.7
DD023412		0.57	21.7	690	141.5	7.5	0.001	0.05	3.21	3.3	1.9	0.5	48.5	<0.01	0.05	0.8
DD023413		0.21	16.2	960	141.0	6.0	<0.001	0.06	2.21	2.2	1.1	0.2	75.1	<0.01	0.04	0.6
DD023414		0.16	29.5	740	126.5	5.6	0.001	0.05	2.13	4.1	1.3	0.3	83.2	<0.01	0.03	1.6
DD023415		0.15	26.3	580	78.3	8.1	0.001	0.09	1.62	4.5	1.2	0.5	91.3	<0.01	0.08	2.3
DD023416		0.22	41.6	810	138.0	7.7	0.001	0.05	1.81	5.5	2.9	0.4	82.2	<0.01	0.06	1.3
DD023417		0.19	17.7	380	89.4	5.1	<0.001	0.03	1.25	2.3	1.0	0.2	89.9	<0.01	0.02	0.9
DD023418		0.55	23.0	700	61.0	7.0	0.001	0.04	1.02	3.6	0.6	0.5	46.9	<0.01	0.04	1.2
DD023419		0.16	15.5	810	53.8	4.1	0.001	0.04	1.69	1.2	0.9	0.2	95.8	<0.01	<0.01	0.5
DD023420		0.71	33.0	780	54.0	8.1	<0.001	0.04	1.54	4.2	1.0	0.5	29.9	<0.01	0.04	2.2
DD023421		0.64	32.5	370	22.8	5.2	<0.001	0.03	0.97	4.4	1.2	0.4	18.8	<0.01	0.05	2.1
DD023422		0.39	23.7	740	111.5	8.2	0.001	0.05	1.69	3.1	0.8	0.4	60.3	<0.01	0.05	1.1
DD023423		0.26	23.4	690	79.2	6.2	<0.001	0.04	1.68	2.6	0.5	0.3	82.6	<0.01	0.05	1.0
DD023424		0.37	22.4	810	71.9	6.9	0.001	0.04	1.19	2.9	0.6	0.3	52.9	<0.01	0.04	1.3
DD023425		0.62	37.9	410	24.0	7.8	0.001	0.03	1.02	5.2	2.0	0.5	20.4	<0.01	0.05	2.9
DD023426		0.31	41.9	880	38.6	5.3	0.001	0.04	1.90	4.1	1.4	0.3	74.6	<0.01	0.03	2.0
DD023427		0.62	41.0	410	50.4	10.4	0.001	0.02	0.81	6.8	1.1	0.5	15.4	<0.01	0.05	3.4
DD023428		0.18	13.4	710	46.9	5.3	<0.001	0.06	0.67	2.7	0.4	0.2	113.5	<0.01	<0.01	1.0
DD023429		0.35	42.6	570	86.3	9.8	0.001	0.04	1.83	6.1	1.4	0.4	33.9	<0.01	0.06	2.6



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023390		0.014	0.91	1.58	54	0.26	14.85	447	1.7
DD023391		0.030	0.27	1.12	62	0.32	9.52	133	0.6
DD023392		0.011	0.25	3.23	53	0.20	14.50	278	1.3
DD023393		0.026	0.29	2.21	56	0.34	10.50	183	0.9
DD023394		<0.005	1.40	4.38	32	0.24	14.65	497	1.6
DD023395		<0.005	0.66	3.18	33	0.15	10.10	241	1.2
DD023396		0.013	0.42	2.59	37	0.24	9.75	247	0.7
DD023397		0.006	0.20	2.42	37	0.12	12.55	192	1.0
DD023398		0.014	0.45	1.38	36	0.24	9.39	434	1.1
DD023399		0.008	0.85	1.95	57	0.35	16.45	611	1.9
DD023400		0.005	0.57	1.61	28	0.15	9.01	513	1.8
DD023401		0.015	0.36	1.27	47	0.26	10.80	426	1.3
DD023402		0.005	0.77	2.81	22	0.15	4.52	484	1.0
DD023403		<0.005	0.45	2.51	15	0.12	3.24	208	0.7
DD023404		0.014	0.63	2.01	44	0.20	7.96	606	0.9
DD023405		0.007	0.45	2.43	54	0.23	14.60	308	1.1
DD023406		0.022	0.42	1.45	70	0.29	12.45	335	1.6
DD023407		<0.005	0.75	1.74	20	0.17	4.77	207	0.9
DD023408		<0.005	0.69	2.87	38	0.18	9.95	376	1.2
DD023409		0.017	0.31	2.14	35	0.27	5.42	427	0.8
DD023410		<0.005	0.59	1.72	31	0.17	7.93	388	1.2
DD023411		<0.005	0.73	1.34	21	0.20	4.74	814	0.8
DD023412		0.013	0.47	2.30	49	0.25	11.85	294	0.9
DD023413		0.005	0.40	2.26	25	0.14	10.25	199	1.0
DD023414		<0.005	0.78	2.92	41	0.17	12.45	261	1.8
DD023415		<0.005	0.52	2.61	54	0.15	9.85	163	1.6
DD023416		<0.005	0.33	2.86	67	0.16	15.10	299	1.9
DD023417		0.007	0.55	2.65	22	0.17	8.75	201	0.9
DD023418		0.012	0.36	2.01	47	0.22	16.20	171	1.4
DD023419		<0.005	0.51	1.85	24	0.17	8.80	103	0.9
DD023420		0.015	0.50	2.16	53	0.25	12.50	167	1.4
DD023421		0.008	0.21	0.76	52	0.11	10.10	202	1.5
DD023422		0.008	0.55	1.93	51	0.30	11.25	207	1.2
DD023423		0.006	0.57	1.65	47	0.21	11.95	201	1.2
DD023424		0.007	0.29	1.72	46	0.25	9.43	151	1.1
DD023425		0.012	0.21	1.20	63	0.19	15.30	130	1.5
DD023426		0.006	0.66	1.99	61	0.13	14.90	182	1.5
DD023427		0.007	0.24	1.71	69	0.15	19.40	160	1.3
DD023428		<0.005	0.24	1.14	23	0.23	10.30	156	1.2
DD023429		0.005	0.77	2.17	81	0.20	24.5	210	1.6



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023430		0.26	0.003	0.72	0.85	116	<0.2	<10	140	0.86	0.12	11.65	1.66	12.25	5.9	17
DD023431		0.21	0.002	0.38	0.92	87.2	<0.2	<10	190	0.80	0.17	9.09	1.82	14.35	6.8	16
DD023432		0.31	0.005	0.89	1.00	129.5	<0.2	<10	170	0.75	0.18	4.75	2.12	15.70	7.8	24
DD023433		0.23	0.003	0.36	1.47	47.5	<0.2	<10	340	0.82	0.24	3.28	0.76	23.4	6.8	25
DD023434		0.35	0.003	0.64	0.46	80	<0.2	<10	310	0.51	0.10	11.30	1.32	7.69	4.5	13
DD023435		0.19	0.002	0.36	1.49	62.0	<0.2	<10	130	1.06	0.22	4.19	2.10	19.20	8.8	23
DD023436		0.23	0.002	0.56	1.58	71.9	<0.2	<10	130	1.10	0.23	4.81	2.63	23.5	8.6	23
DD023437		0.24	0.004	0.77	0.57	120	<0.2	<10	60	0.88	0.10	15.40	2.00	11.00	5.5	12
DD023438		0.24	0.006	0.67	1.45	120.0	<0.2	<10	130	1.10	0.21	3.72	2.32	24.9	11.3	28
DD023439		0.22	0.003	0.31	1.06	237	<0.2	<10	100	0.88	0.18	3.57	0.82	17.75	11.4	22
DD023440		0.23	0.002	0.33	0.26	151	<0.2	<10	30	0.46	0.04	23.0	1.14	5.86	3.3	7
DD023441		0.21	0.004	0.61	1.08	173	<0.2	<10	110	0.97	0.12	11.75	1.69	22.4	6.6	19
DD023442		0.21	0.002	0.17	1.73	48.0	<0.2	<10	180	0.56	0.23	0.27	0.35	20.1	12.3	28
DD023443		0.17	0.004	0.52	0.37	230	<0.2	<10	40	0.41	0.04	22.0	1.16	6.28	3.2	7
DD023444		0.22	0.005	0.83	1.83	227	<0.2	<10	160	0.84	0.23	3.35	5.07	27.4	9.3	29
DD023445		0.17	0.023	1.82	1.44	227	<0.2	<10	120	0.79	0.20	4.65	2.43	28.2	8.2	26
DD023446		0.24	0.004	0.53	0.95	384	<0.2	<10	70	0.53	0.11	15.70	1.05	11.30	4.7	16
DD023447		0.15	0.018	0.96	1.85	1275	<0.2	<10	220	1.04	0.20	6.86	3.39	18.85	8.0	24
DD023448		0.29	0.009	0.97	1.11	174.5	<0.2	<10	690	1.01	0.27	1.06	0.74	13.15	10.2	24
DD023449		0.28	0.005	1.24	0.79	52.3	<0.2	<10	1850	0.71	0.20	0.72	0.81	9.31	7.4	30
DD023450		0.26	0.007	2.00	0.69	63.5	<0.2	<10	2060	0.82	0.19	0.67	2.07	7.38	12.2	37
DD023451		0.27	0.012	1.73	0.50	49.1	<0.2	<10	1090	0.52	0.18	0.54	0.82	4.72	6.3	23
DD023452		0.19	0.003	1.12	0.41	35.4	<0.2	10	1160	0.42	0.14	1.14	0.72	3.50	3.6	18
DD023453		0.29	0.006	1.39	0.41	62.9	<0.2	<10	1290	0.45	0.16	1.13	0.94	5.45	5.9	22
DD023454		0.24	0.007	1.42	0.62	59.4	<0.2	10	890	0.38	0.20	1.32	2.07	8.35	5.7	19
DD023455		0.22	0.011	1.01	0.94	341	<0.2	<10	240	0.60	0.19	4.39	0.62	15.55	6.6	19
DD023456		0.21	0.004	0.55	1.14	198	<0.2	<10	130	0.67	0.15	10.05	1.16	20.0	6.0	19
DD023457		0.22	0.001	0.12	2.02	138.0	<0.2	<10	150	0.71	0.28	0.95	2.87	32.2	9.9	41
DD023458		0.15	0.004	0.60	1.09	267	<0.2	<10	80	0.98	0.13	10.70	3.28	18.75	5.7	19
DD023459		0.24	0.005	0.57	1.55	322	<0.2	<10	110	0.83	0.19	6.32	2.78	23.6	7.9	25
DD023460		0.16	0.004	0.86	0.77	207	<0.2	<10	70	0.82	0.08	15.15	1.38	19.15	4.8	14
DD023461		0.28	0.003	0.33	1.49	107.5	<0.2	<10	200	0.70	0.20	4.78	0.69	25.1	9.9	27
DD023462		0.23	0.003	0.76	0.45	47	<0.2	<10	50	0.42	0.05	15.90	2.17	8.34	3.6	10
DD023463		0.20	0.002	0.23	1.66	46.1	<0.2	<10	140	0.73	0.23	2.69	0.96	30.0	9.4	31
DD023464		0.21	0.003	1.01	0.67	125	<0.2	<10	80	0.60	0.08	14.45	2.61	8.14	6.5	12
DD023465		0.25	0.004	1.50	1.16	108	<0.2	<10	80	0.88	0.13	10.15	1.35	20.4	5.8	21
DD023466		0.22	0.003	0.53	1.17	138.0	<0.2	<10	120	0.81	0.16	6.27	3.75	21.2	8.7	21
DD023467		0.19	0.003	0.57	0.51	109	<0.2	<10	50	0.50	0.05	16.95	1.42	10.45	3.7	11
DD023468		0.14	0.005	2.71	1.97	1170	<0.2	<10	130	1.39	0.28	1.60	14.15	31.6	10.7	36
DD023469		0.23	0.010	0.83	1.02	539	<0.2	<10	160	0.75	0.17	10.70	1.92	19.65	10.9	22



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023430		0.56	16.4	1.71	2.43	0.08	0.05	0.57	0.027	0.05	6.5	6.8	4.29	233	4.61	0.01
DD023431		0.54	24.3	1.77	2.54	0.10	0.02	0.53	0.019	0.04	7.2	8.5	5.05	403	1.79	0.01
DD023432		0.78	29.2	2.47	3.04	0.09	0.06	0.52	0.032	0.06	10.5	8.6	1.24	326	9.06	<0.01
DD023433		0.82	18.7	2.85	5.08	0.08	0.05	0.34	0.035	0.05	14.5	16.5	1.61	429	2.17	<0.01
DD023434		0.53	19.1	1.38	1.43	0.07	0.03	0.71	0.014	0.04	4.0	5.9	4.59	246	2.01	0.01
DD023435		0.66	15.2	2.91	4.18	0.08	0.05	0.33	0.035	0.06	9.0	13.3	2.35	365	2.03	<0.01
DD023436		0.98	11.0	2.60	4.84	0.09	0.04	1.07	0.029	0.04	12.3	11.6	2.87	749	1.51	0.01
DD023437		0.44	9.0	1.26	1.62	0.08	0.04	2.35	0.016	0.04	6.1	6.6	7.42	367	2.06	0.01
DD023438		0.57	19.8	3.13	3.90	0.11	0.12	1.64	0.037	0.05	22.9	12.4	2.21	541	2.45	<0.01
DD023439		0.49	23.8	2.82	3.09	0.07	0.06	0.41	0.028	0.04	8.4	12.9	1.93	491	2.30	<0.01
DD023440		0.72	5.7	0.59	0.59	0.06	0.03	0.75	0.007	0.04	2.8	2.3	6.52	315	0.67	0.01
DD023441		0.82	10.2	1.76	2.27	0.07	0.05	1.49	0.021	0.04	11.4	7.5	5.66	531	1.42	<0.01
DD023442		1.12	15.1	3.18	5.19	0.07	0.03	0.81	0.030	0.05	9.1	18.3	0.46	357	2.13	<0.01
DD023443		0.57	6.3	0.76	0.85	0.06	0.04	3.57	0.009	0.03	3.5	2.8	5.70	332	1.23	0.01
DD023444		1.06	9.9	2.80	4.96	0.07	0.06	5.60	0.033	0.04	11.4	11.3	1.81	1220	2.04	<0.01
DD023445		0.92	13.2	2.49	4.17	0.07	0.07	117.0	0.030	0.05	13.9	13.8	2.34	644	1.73	<0.01
DD023446		0.87	6.6	1.46	2.64	<0.05	0.04	3.05	0.015	0.04	6.4	5.0	6.36	294	1.90	0.03
DD023447		1.09	12.0	4.42	5.15	0.07	0.05	10.25	0.033	0.04	8.8	8.6	0.30	423	14.10	0.02
DD023448		1.80	76.4	3.19	3.60	0.07	0.06	0.68	0.044	0.12	6.6	10.8	0.48	313	4.98	0.01
DD023449		0.90	46.3	2.73	2.45	0.06	0.04	0.33	0.039	0.07	5.2	5.7	0.11	110	4.98	0.01
DD023450		0.72	55.5	3.68	1.45	0.11	0.09	0.37	0.045	0.07	4.0	3.4	0.20	365	6.43	0.06
DD023451		0.87	56.0	2.72	1.56	0.08	0.07	0.47	0.039	0.08	3.0	4.0	0.08	96	5.16	0.02
DD023452		0.59	41.3	1.89	1.23	0.07	0.08	0.20	0.028	0.06	2.1	2.0	0.06	76	3.34	0.03
DD023453		1.19	54.1	2.33	1.32	0.08	0.08	0.44	0.033	0.07	3.4	2.9	0.31	108	5.31	0.03
DD023454		1.32	39.4	1.84	2.35	0.07	0.06	1.07	0.027	0.10	4.5	6.3	0.25	178	3.43	0.02
DD023455		0.67	27.3	2.23	2.90	0.07	0.05	3.64	0.027	0.09	8.1	7.1	1.80	233	4.82	<0.01
DD023456		0.81	7.5	1.93	3.01	0.06	0.04	4.48	0.022	0.03	9.9	6.0	4.96	422	2.58	0.01
DD023457		1.14	9.5	3.37	6.05	0.09	0.05	1.13	0.036	0.04	18.6	12.0	0.56	460	2.33	<0.01
DD023458		0.82	8.2	1.84	2.85	0.06	0.04	3.60	0.019	0.04	10.4	6.8	5.48	708	1.78	0.01
DD023459		0.93	11.1	2.43	4.04	0.07	0.07	7.55	0.028	0.04	11.9	8.7	3.70	794	1.76	<0.01
DD023460		0.58	7.7	1.21	1.54	0.07	0.07	5.40	0.017	0.03	12.9	3.8	8.67	905	1.47	0.01
DD023461		0.80	16.1	2.76	4.09	0.08	0.09	0.95	0.030	0.05	13.5	11.0	2.63	451	1.66	<0.01
DD023462		0.28	6.7	0.73	1.11	0.07	0.05	2.21	0.010	0.03	5.2	2.8	9.26	406	0.82	0.01
DD023463		0.94	12.9	2.72	4.69	0.08	0.07	0.51	0.029	0.05	14.3	12.3	1.76	368	1.32	<0.01
DD023464		0.66	14.1	1.31	1.74	0.06	0.06	3.77	0.016	0.06	4.2	7.6	7.36	324	1.15	<0.01
DD023465		0.89	7.9	1.76	2.95	0.07	0.07	5.61	0.022	0.04	13.5	7.1	6.07	563	1.08	<0.01
DD023466		0.67	15.2	2.11	3.29	0.06	0.05	1.66	0.021	0.04	10.0	9.8	3.30	497	1.29	<0.01
DD023467		0.54	6.4	0.88	1.11	0.06	0.05	2.21	0.010	0.03	5.4	3.6	9.04	273	1.24	0.01
DD023468		1.20	12.6	3.79	5.55	0.07	0.05	55.9	0.041	0.05	17.0	11.5	0.54	940	3.92	0.01
DD023469		1.07	17.5	2.03	2.97	0.06	0.05	16.80	0.032	0.07	9.4	7.0	4.29	367	6.04	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023430		0.29	34.3	610	51.3	6.9	<0.001	0.05	1.86	3.6	1.2	0.3	74.0	<0.01	0.05	1.4
DD023431		0.44	36.4	760	28.8	6.6	<0.001	0.05	1.53	1.9	1.6	0.3	49.3	<0.01	0.04	0.6
DD023432		0.30	59.2	800	26.0	7.7	0.002	0.06	3.18	4.2	1.7	0.5	43.9	<0.01	0.12	1.7
DD023433		0.79	30.0	580	22.2	7.6	0.001	0.03	0.81	5.2	1.3	0.6	55.4	<0.01	0.05	2.5
DD023434		0.20	32.5	640	41.1	3.9	0.007	0.04	1.32	2.7	3.0	0.2	104.0	<0.01	0.06	1.2
DD023435		0.54	27.8	510	60.9	11.2	<0.001	0.04	1.12	3.8	0.8	0.5	30.4	<0.01	0.05	2.1
DD023436		0.71	21.1	670	129.0	11.4	<0.001	0.05	1.31	3.0	1.2	0.5	38.1	<0.01	0.03	1.1
DD023437		0.21	22.5	590	112.5	5.3	0.001	0.04	1.72	2.9	1.4	0.2	99.9	<0.01	0.01	1.0
DD023438		0.63	35.6	520	48.0	8.0	0.001	0.04	1.24	5.4	1.5	0.5	32.8	0.01	0.05	2.9
DD023439		0.56	31.4	470	26.1	5.9	0.001	0.03	1.17	3.4	1.3	0.4	37.3	<0.01	0.04	2.0
DD023440		0.21	12.9	330	54.2	3.7	0.001	0.02	1.14	1.3	0.8	<0.2	101.5	<0.01	0.02	0.6
DD023441		0.44	22.6	770	63.4	7.9	0.001	0.04	1.24	2.9	1.2	0.3	67.8	0.01	0.03	1.2
DD023442		0.75	33.1	160	29.2	13.1	<0.001	<0.01	0.71	3.2	0.8	0.6	11.3	<0.01	0.04	3.7
DD023443		0.26	13.7	430	102.0	3.7	0.001	0.02	1.46	1.7	1.0	0.2	77.1	<0.01	0.02	0.6
DD023444		0.93	21.8	420	157.0	11.2	<0.001	0.03	2.36	3.9	0.9	0.6	28.2	<0.01	0.03	2.2
DD023445		0.89	22.7	500	439	8.5	<0.001	0.03	6.22	4.5	1.2	0.5	31.8	0.01	0.03	1.8
DD023446		0.53	19.2	450	105.5	6.6	<0.001	0.04	2.15	3.0	0.6	0.3	74.4	<0.01	0.02	1.2
DD023447		0.89	41.7	890	333	6.0	<0.001	0.04	6.35	3.7	1.1	0.7	74.5	0.01	0.04	2.1
DD023448		0.27	52.4	850	28.1	11.6	0.001	0.10	1.95	6.4	4.1	0.6	88.1	<0.01	0.08	3.7
DD023449		0.27	77.1	810	18.6	7.5	0.004	0.06	0.96	6.9	3.9	0.5	96.0	0.01	0.07	1.3
DD023450		0.12	152.5	810	13.5	6.2	0.003	0.05	1.39	9.9	6.6	0.4	84.5	0.01	0.10	1.6
DD023451		0.12	85.5	620	12.1	8.1	0.004	0.04	1.26	8.8	4.5	0.4	79.6	0.01	0.09	1.6
DD023452		0.09	54.3	960	8.6	5.8	0.008	0.09	0.93	4.5	5.8	0.3	128.5	<0.01	0.08	1.0
DD023453		0.11	78.7	1000	12.4	6.6	0.005	0.05	1.40	6.5	4.7	0.4	127.5	0.01	0.08	1.7
DD023454		0.17	34.2	890	27.6	7.8	0.011	0.10	1.83	3.2	5.1	0.5	82.2	<0.01	0.10	1.2
DD023455		0.47	30.9	920	57.0	7.3	0.001	0.10	2.57	3.1	1.8	0.5	75.6	<0.01	0.05	1.5
DD023456		0.57	17.0	730	86.5	5.4	<0.001	0.04	1.81	2.3	1.0	0.4	52.3	0.01	0.03	0.7
DD023457		1.07	28.8	540	36.4	10.7	<0.001	0.02	0.98	4.6	0.8	0.7	14.7	0.01	0.03	1.9
DD023458		0.52	18.9	620	59.2	8.2	<0.001	0.05	3.36	2.8	1.0	0.4	65.8	0.01	0.03	0.6
DD023459		0.66	24.8	600	102.5	8.6	<0.001	0.04	2.37	4.0	1.2	0.5	40.1	0.01	0.03	1.5
DD023460		0.30	15.3	840	108.5	6.6	0.001	0.05	1.80	2.7	1.3	0.2	88.1	0.01	0.03	0.7
DD023461		0.73	29.5	400	40.4	10.1	<0.001	0.02	0.92	4.6	1.2	0.5	32.3	<0.01	0.04	3.3
DD023462		0.20	9.6	860	125.5	4.1	<0.001	0.06	1.55	1.0	0.9	<0.2	90.8	<0.01	0.02	0.4
DD023463		1.00	25.7	400	29.4	10.9	<0.001	0.03	0.81	3.7	0.7	0.5	27.3	<0.01	0.03	2.8
DD023464		0.21	17.5	630	175.5	6.7	<0.001	0.04	2.01	1.8	1.0	0.2	94.3	<0.01	0.03	0.8
DD023465		0.51	16.7	800	255	11.3	<0.001	0.04	2.81	2.8	1.1	0.3	57.7	0.01	0.03	1.1
DD023466		0.64	27.1	650	137.5	6.6	<0.001	0.03	1.36	2.6	1.1	0.4	48.6	<0.01	0.03	1.3
DD023467		0.28	12.4	690	87.2	5.2	<0.001	0.03	1.29	1.8	1.0	0.2	102.5	<0.01	0.02	0.7
DD023468		0.89	31.6	630	1200	11.5	<0.001	0.06	27.1	9.0	1.7	0.7	12.3	0.01	0.03	1.8
DD023469		0.45	54.7	1270	125.5	7.1	0.001	0.05	4.22	3.6	5.1	0.5	54.9	<0.01	0.03	1.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023430		<0.005	0.82	2.00	83	0.16	14.50	153	1.6
DD023431		0.012	0.48	1.32	50	0.17	8.60	236	0.9
DD023432		0.005	1.09	2.86	150	0.23	21.8	270	2.0
DD023433		0.011	0.26	1.53	84	0.21	17.75	130	1.4
DD023434		<0.005	0.35	2.29	33	0.34	10.40	210	1.2
DD023435		0.007	0.36	2.53	60	0.20	7.76	202	1.6
DD023436		0.019	0.43	1.51	52	0.26	10.80	240	1.0
DD023437		0.005	0.62	2.14	32	0.23	11.70	190	1.4
DD023438		0.009	0.53	1.92	64	0.26	27.9	445	2.6
DD023439		0.010	0.36	1.44	49	0.20	9.91	172	1.4
DD023440		<0.005	0.55	3.73	18	0.17	5.85	151	0.7
DD023441		0.010	0.66	2.27	40	0.26	13.15	194	1.2
DD023442		0.013	0.26	0.67	58	0.18	3.60	131	1.0
DD023443		<0.005	0.72	2.67	19	0.17	8.57	188	1.0
DD023444		0.019	1.00	2.44	60	0.31	9.27	505	1.5
DD023445		0.025	0.40	1.57	54	0.39	15.10	210	1.3
DD023446		0.010	0.71	2.62	35	0.18	8.93	260	1.1
DD023447		0.010	1.92	4.19	75	0.43	25.7	871	1.3
DD023448		<0.005	0.39	1.31	72	0.08	15.85	255	2.4
DD023449		0.005	0.17	2.01	73	0.08	24.0	279	1.1
DD023450		<0.005	0.18	2.98	87	0.09	43.7	493	2.3
DD023451		<0.005	0.22	2.08	54	0.08	26.5	235	2.2
DD023452		<0.005	0.08	3.54	41	0.06	20.2	185	2.4
DD023453		<0.005	0.15	2.16	50	0.07	25.9	265	3.3
DD023454		<0.005	0.29	2.81	52	0.10	8.99	133	2.1
DD023455		0.010	0.71	3.99	48	0.28	13.75	173	1.2
DD023456		0.014	0.45	3.48	42	0.22	11.60	253	0.8
DD023457		0.025	0.50	4.18	98	0.29	22.9	312	0.9
DD023458		0.014	0.65	2.73	50	0.26	21.4	321	0.9
DD023459		0.015	0.94	1.61	55	0.32	16.05	467	1.5
DD023460		0.007	0.53	2.34	30	0.21	18.05	184	1.5
DD023461		0.012	0.32	1.78	54	0.24	15.20	144	2.5
DD023462		<0.005	0.21	1.58	23	0.11	11.00	175	1.3
DD023463		0.026	0.34	1.14	53	0.23	10.35	183	1.6
DD023464		<0.005	0.65	1.67	23	0.15	9.03	257	1.8
DD023465		0.012	0.54	1.98	45	0.27	14.70	286	1.7
DD023466		0.018	0.65	1.59	39	0.22	11.00	1040	1.2
DD023467		0.005	0.45	2.00	22	0.18	7.44	208	1.1
DD023468		0.022	2.84	4.54	93	0.60	26.2	1110	1.1
DD023469		0.007	1.70	5.12	46	0.32	14.40	733	1.5



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**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023470		0.19	0.002	0.21	1.99	551	<0.2	<10	200	1.65	0.34	1.11	1.52	34.2	10.2	40
DD023471		0.27	0.167	0.78	1.19	2760	<0.2	10	300	0.62	0.31	7.09	1.77	36.8	13.9	31
DD023472		0.32	0.005	1.26	0.39	80.4	<0.2	<10	940	0.40	0.16	0.35	1.29	3.89	3.6	23
DD023473		0.20	0.005	1.12	0.35	39.2	<0.2	10	1070	0.46	0.14	0.61	0.98	3.61	3.9	20
DD023474		0.29	0.009	1.25	1.35	114.5	<0.2	<10	1060	2.89	0.17	2.27	1.51	4.74	17.2	62
DD023475		0.43	0.006	1.63	0.41	70.9	<0.2	10	1340	0.71	0.17	1.23	0.93	4.38	7.3	25
DD023476		0.21	0.004	1.32	0.48	36.9	<0.2	10	1180	0.66	0.15	1.10	0.66	3.78	4.6	20
DD023477		0.21	0.006	1.60	0.72	76.8	<0.2	10	1550	0.99	0.19	1.58	1.29	7.78	8.5	29
DD023478		0.20	0.007	14.45	0.73	159.0	<0.2	10	1060	0.95	0.15	6.97	8.91	8.13	9.3	129
DD023479		0.26	0.008	0.65	0.90	118.0	<0.2	<10	410	0.69	0.15	2.95	2.08	12.90	7.5	18
DD023480		0.19	0.012	1.70	1.41	481	<0.2	<10	190	1.08	0.19	6.01	6.63	18.95	8.1	25
DD023481		0.16	0.001	0.18	1.93	185.5	<0.2	<10	180	1.13	0.28	1.60	5.33	30.6	9.6	34
DD023482		0.21	0.010	2.76	0.33	413	<0.2	<10	50	0.74	0.05	20.3	6.67	5.92	3.0	9
DD023483		0.25	0.002	0.38	2.22	85.3	<0.2	<10	180	0.89	0.32	0.59	1.18	33.1	10.0	38
DD023484		0.16	0.004	0.77	1.29	159	<0.2	<10	80	1.45	0.13	12.25	1.12	24.7	6.4	21
DD023485		0.30	0.002	0.25	2.07	59.3	<0.2	<10	160	1.27	0.22	3.26	0.61	26.6	11.0	29
DD023486		0.20	0.004	0.69	1.23	74.8	<0.2	<10	130	1.52	0.14	9.08	1.15	28.3	8.9	23
DD023487		0.19	0.002	0.54	1.27	49.2	<0.2	<10	100	1.46	0.14	8.12	0.58	19.00	7.5	21
DD023488		0.27	0.003	0.62	1.17	85	<0.2	<10	100	1.29	0.12	11.15	0.63	19.75	7.2	20
DD023489		0.22	0.004	1.52	0.51	152	<0.2	<10	50	1.14	0.07	17.15	1.95	6.91	4.6	10
DD023490		0.20	0.003	0.93	1.90	175.5	<0.2	<10	190	2.87	0.25	2.38	2.51	30.2	9.4	30



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**CERTIFICATE OF ANALYSIS WH12157366**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD023470		0.53	9.6	4.04	6.55	0.07	0.06	3.04	0.058	0.07	14.4	8.7	0.25	425	5.06	0.01
DD023471		1.86	29.4	3.92	4.59	0.08	0.09	33.0	0.066	0.28	18.5	4.6	0.11	158	54.8	0.01
DD023472		0.99	43.2	1.72	1.64	0.07	0.05	0.71	0.030	0.07	2.6	2.4	0.04	70	6.82	0.02
DD023473		0.90	48.3	1.57	1.32	0.08	0.08	0.20	0.031	0.06	2.5	1.8	0.04	26	5.02	0.02
DD023474		2.25	367	5.44	2.56	0.13	0.18	3.58	0.116	0.08	3.4	2.4	0.33	199	10.20	0.01
DD023475		1.03	58.3	2.48	1.42	0.07	0.09	0.39	0.033	0.08	2.8	2.3	0.29	134	5.30	0.01
DD023476		0.70	39.8	3.22	1.53	0.08	0.07	0.20	0.030	0.07	2.3	2.2	0.06	72	4.69	0.01
DD023477		0.94	69.1	2.60	2.21	0.08	0.07	0.85	0.038	0.07	4.5	6.1	0.38	276	5.18	0.01
DD023478		1.59	154.0	3.32	2.02	0.20	0.15	0.59	0.036	0.07	9.2	2.7	0.09	202	34.9	0.02
DD023479		0.64	26.5	1.91	2.72	0.06	0.06	2.60	0.022	0.06	5.9	10.1	0.30	318	1.57	0.01
DD023480		1.05	11.7	2.44	3.81	0.06	0.04	61.8	0.031	0.05	8.6	9.4	3.06	1100	4.18	0.02
DD023481		1.13	9.9	3.18	6.00	0.07	0.03	2.73	0.039	0.04	18.7	10.2	0.28	698	3.89	0.01
DD023482		0.72	6.2	0.81	1.13	<0.05	0.04	24.0	0.010	0.03	3.0	3.1	6.33	362	2.95	0.02
DD023483		1.31	10.8	3.56	6.18	0.11	0.08	1.59	0.039	0.06	16.8	16.2	0.67	481	1.44	<0.01
DD023484		0.83	8.0	1.70	3.11	0.07	0.08	4.60	0.021	0.04	21.4	9.5	6.86	599	1.44	0.02
DD023485		1.43	11.9	2.84	5.79	0.06	0.07	0.71	0.031	0.04	11.2	17.1	1.83	337	1.63	0.01
DD023486		0.68	12.1	1.98	2.71	0.07	0.06	1.18	0.023	0.04	16.7	11.5	4.77	534	1.49	0.02
DD023487		0.65	9.1	1.94	3.54	0.06	0.05	0.87	0.022	0.03	10.8	12.1	4.57	376	1.11	0.02
DD023488		0.64	9.2	1.72	3.15	0.05	0.06	1.65	0.021	0.04	11.2	10.1	6.34	374	1.29	0.02
DD023489		0.47	10.0	0.95	1.38	<0.05	0.05	3.46	0.012	0.05	3.4	6.2	7.98	302	1.06	0.02
DD023490		1.10	10.4	2.91	5.18	0.06	0.06	0.66	0.030	0.05	13.5	16.0	1.52	464	1.17	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD023470		0.96	34.2	390	65.0	8.2	<0.001	0.04	2.00	7.0	0.8	1.0	13.7	<0.01	0.03	4.8
DD023471		0.30	86.6	7730	142.5	15.5	0.006	0.04	13.10	4.7	1.3	0.9	112.5	<0.01	0.05	8.1
DD023472		0.07	39.4	890	20.4	6.5	0.017	0.06	1.53	4.5	6.1	0.4	101.0	<0.01	0.09	1.1
DD023473		0.07	70.2	1010	9.1	6.4	0.008	0.04	1.08	5.7	5.6	0.3	117.5	0.01	0.07	1.1
DD023474		0.08	276	1550	13.7	6.9	0.023	0.10	1.62	26.3	9.6	0.4	934	0.01	0.11	1.4
DD023475		0.09	90.8	900	12.8	6.3	0.006	0.06	1.20	9.0	4.7	0.4	128.0	0.01	0.09	1.4
DD023476		0.10	55.3	910	9.7	6.3	0.017	0.08	0.84	5.5	6.1	0.4	122.5	0.01	0.08	1.0
DD023477		0.17	97.2	800	20.9	6.7	0.004	0.06	1.15	8.1	4.4	0.4	104.5	0.01	0.09	1.0
DD023478		0.12	297	4880	12.2	7.2	0.008	0.04	5.63	12.5	20.0	0.6	581	0.02	0.16	2.5
DD023479		0.47	28.9	990	46.9	6.1	0.005	0.10	1.99	3.0	3.9	0.3	41.7	<0.01	0.05	0.9
DD023480		0.57	27.3	740	233	6.3	0.001	0.06	2.88	3.9	1.4	0.5	57.6	<0.01	0.04	0.9
DD023481		1.09	26.7	790	124.0	7.8	<0.001	0.03	1.48	4.5	0.9	0.7	13.2	0.01	0.04	0.9
DD023482		0.17	14.4	460	406	4.8	0.001	0.03	9.76	2.3	1.3	0.2	91.9	<0.01	0.03	0.6
DD023483		1.09	24.7	330	36.8	12.2	<0.001	0.01	0.99	5.2	0.8	0.7	14.2	0.01	0.05	3.9
DD023484		0.50	18.7	600	89.6	7.3	<0.001	0.03	1.20	5.5	1.1	0.3	71.9	0.01	0.03	1.2
DD023485		0.99	27.5	220	50.5	10.7	<0.001	0.01	0.62	4.6	0.7	0.6	25.8	<0.01	0.04	3.7
DD023486		0.54	25.3	800	82.3	7.8	0.001	0.03	1.27	4.7	1.1	0.3	63.9	0.01	0.03	1.6
DD023487		0.62	18.0	680	130.0	6.7	<0.001	0.03	0.72	3.5	0.8	0.4	51.7	<0.01	0.03	1.3
DD023488		0.54	17.0	670	64.9	7.0	0.001	0.04	1.12	3.7	0.9	0.3	76.7	<0.01	0.04	1.0
DD023489		0.18	13.4	530	205	5.0	0.001	0.04	2.56	2.0	0.7	0.2	114.5	<0.01	0.03	0.6
DD023490		0.96	24.2	430	135.5	10.1	<0.001	0.03	0.91	3.9	0.6	0.6	24.2	<0.01	0.03	2.2



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023470		0.008	1.94	3.66	79	0.36	12.80	253	1.6
DD023471		0.005	10.40	38.1	50	0.57	22.7	290	5.0
DD023472		<0.005	0.17	3.40	51	0.09	14.15	178	1.6
DD023473		<0.005	0.09	3.11	43	0.06	21.7	218	2.8
DD023474		<0.005	0.14	5.42	109	0.12	54.1	950	7.9
DD023475		<0.005	0.15	2.66	55	0.08	26.2	291	4.0
DD023476		<0.005	0.08	4.39	45	0.07	22.0	236	2.2
DD023477		<0.005	0.14	3.61	59	0.12	30.7	278	2.0
DD023478		<0.005	0.18	11.05	141	0.51	73.5	1080	5.8
DD023479		0.008	0.25	7.47	42	0.14	9.64	210	1.8
DD023480		0.009	1.24	3.17	55	0.32	10.25	539	0.9
DD023481		0.022	0.57	6.17	83	0.33	22.2	433	0.7
DD023482		<0.005	1.16	3.08	19	0.28	7.62	732	1.0
DD023483		0.031	0.35	2.11	70	0.29	9.53	231	2.0
DD023484		0.009	0.45	1.69	40	0.25	22.7	184	1.4
DD023485		0.014	0.33	1.42	61	0.20	6.87	139	2.4
DD023486		0.012	0.45	1.83	41	0.26	16.80	178	1.1
DD023487		0.011	0.28	1.47	46	0.23	10.00	151	1.2
DD023488		0.011	0.41	1.56	41	0.32	11.00	147	1.3
DD023489		<0.005	0.75	2.41	23	0.23	5.98	336	1.5
DD023490		0.020	0.87	1.29	62	0.41	7.99	520	1.4



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Account: RCM

Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157366**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12157367**

Project: ATAC- Regional Area D- MooseLake  
 P.O. No.: Soil 15  
 This report is for 122 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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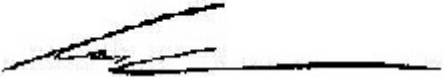
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
EXTRA- 01	Extra Sample received in Shipment
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59812		0.18	0.003	0.27	1.21	44.6	<0.2	<10	540	0.80	0.19	1.22	1.02	16.85	11.1	21
ZZ59813		0.24	0.003	0.26	1.09	50.1	<0.2	<10	630	0.75	0.16	2.14	1.14	13.95	8.0	18
ZZ59814		0.32	0.005	0.18	2.14	110.0	<0.2	<10	270	1.36	0.21	0.15	0.61	28.4	14.4	33
ZZ59815		0.25	0.005	0.67	0.98	105.0	<0.2	<10	480	0.84	0.15	3.87	2.10	12.30	6.6	21
ZZ59816		0.22	0.006	1.50	0.69	125.5	<0.2	<10	850	0.82	0.13	1.74	2.54	8.13	9.7	23
ZZ59817		0.16	0.002	1.77	0.67	234	<0.2	<10	830	0.73	0.14	1.87	2.09	7.19	10.8	22
ZZ59818		0.20	0.010	1.84	0.71	84.4	<0.2	<10	1010	0.77	0.15	1.51	1.70	6.34	5.7	27
ZZ59819		0.16	0.009	1.46	0.69	232	<0.2	<10	680	0.53	0.16	1.83	1.90	8.84	5.2	22
ZZ59820		0.20	0.005	1.35	0.66	88.7	<0.2	<10	880	0.75	0.13	2.14	2.06	6.89	4.8	23
ZZ59821		0.16	0.007	1.42	0.55	83.8	<0.2	10	810	0.59	0.13	1.74	2.20	5.49	4.0	22
ZZ59822		0.28	0.004	0.76	1.59	136.5	<0.2	<10	160	1.69	0.20	5.64	1.25	28.8	8.3	29
ZZ59823		0.32	0.003	1.01	1.81	161.5	<0.2	<10	130	1.53	0.21	4.03	1.75	24.6	8.5	31
ZZ59824		0.26	0.004	0.89	1.27	269	<0.2	<10	120	1.52	0.16	9.06	2.18	19.55	7.4	21
ZZ59825		0.33	0.004	0.64	1.13	193	<0.2	<10	90	1.16	0.13	12.35	0.79	15.50	5.3	20
ZZ59826		0.27	0.002	0.32	1.94	93.0	<0.2	<10	460	1.21	0.26	1.17	0.78	23.9	12.2	29
ZZ59827		0.32	0.003	0.39	0.57	212	<0.2	<10	60	0.60	0.08	17.35	0.85	6.36	3.3	10
ZZ59828		0.25	0.003	0.49	3.24	322	<0.2	<10	280	2.68	0.36	1.19	6.37	45.3	14.8	42
ZZ59829		0.25	0.004	1.07	2.27	516	<0.2	<10	170	2.64	0.25	5.85	9.48	33.8	10.3	31
ZZ59830		0.26	0.005	0.88	1.47	258	<0.2	<10	110	1.21	0.17	8.96	2.33	22.8	7.0	23
ZZ59831		0.28	0.017	4.82	1.24	343	<0.2	<10	140	1.13	0.13	12.65	5.14	17.15	5.2	22
ZZ59832		0.15	0.010	0.46	0.90	264	<0.2	<10	420	0.57	0.12	3.57	3.12	12.30	6.9	15
ZZ59833		0.29	0.004	1.84	0.44	114.0	<0.2	10	1380	0.72	0.16	1.83	1.63	4.77	5.2	33
ZZ59834		0.33	0.001	0.18	0.54	71.0	<0.2	<10	210	0.26	0.20	0.03	0.18	3.50	4.1	18
ZZ59835		0.30	0.004	0.84	0.41	31.6	<0.2	10	1250	0.63	0.15	0.74	0.82	3.78	4.4	22
ZZ59836		0.31	0.005	1.22	0.72	49.6	<0.2	<10	1570	0.88	0.20	0.65	0.61	6.12	5.8	29
ZZ59837		0.22	0.004	1.15	0.58	29.3	<0.2	10	1050	0.61	0.14	1.40	0.52	4.53	3.3	19
ZZ59838		0.25	0.005	1.03	0.35	32.7	<0.2	10	940	0.59	0.16	0.89	0.63	3.19	5.1	20
ZZ59839		0.39	0.007	1.70	0.77	129.5	<0.2	<10	1500	1.01	0.16	1.29	2.09	8.90	6.3	41
ZZ59840		0.31	0.004	0.71	0.44	122.5	<0.2	<10	770	0.63	0.19	0.37	0.28	3.96	3.3	18
ZZ59841		0.24	0.005	0.75	1.03	213	<0.2	<10	670	0.64	0.23	1.06	2.27	14.80	5.2	23
ZZ59842		0.19	0.065	2.52	0.68	507	<0.2	<10	190	0.55	0.09	11.40	7.45	13.40	7.5	14
ZZ59843		0.25	0.012	0.96	2.34	528	<0.2	<10	250	1.42	0.26	1.62	5.37	26.8	10.0	37
ZZ59844		0.27	0.008	1.81	2.11	467	<0.2	<10	200	2.20	0.22	6.74	10.30	25.5	8.8	32
ZZ59845		0.26	0.002	0.56	1.76	316	<0.2	<10	170	1.38	0.21	4.75	2.90	21.6	7.9	25
ZZ59846		0.30	0.002	0.38	2.60	110.5	<0.2	<10	200	1.76	0.27	0.82	1.36	45.9	11.5	41
ZZ59847		0.27	0.002	0.37	2.96	151.0	<0.2	<10	260	2.09	0.34	0.61	2.91	40.6	11.7	41
ZZ59848		0.29	0.004	0.65	1.98	302	<0.2	<10	230	1.65	0.23	2.70	1.38	29.7	9.9	35
ZZ59849		0.30	0.006	1.64	1.60	230	<0.2	<10	140	1.63	0.16	9.47	3.40	21.9	7.4	28
ZZ59850		0.26	0.003	0.44	1.97	261	<0.2	<10	280	1.07	0.25	0.94	1.15	30.4	11.7	34
ZZ59851		0.22	0.004	1.27	0.68	95.1	<0.2	<10	820	0.60	0.14	2.38	1.59	5.45	6.2	23



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 Account: RCM

Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ59812		0.57	26.9	3.04	3.32	0.06	0.07	0.37	0.027	0.06	7.6	15.1	0.35	432	1.82	0.02
ZZ59813		0.48	19.4	2.55	2.82	<0.05	0.05	0.31	0.022	0.05	6.1	12.0	0.37	509	1.39	0.02
ZZ59814		1.21	27.7	4.00	4.53	0.06	0.06	0.22	0.040	0.05	11.9	17.4	0.34	406	3.33	0.01
ZZ59815		0.60	34.3	2.33	2.46	<0.05	0.04	0.81	0.021	0.05	6.6	10.1	1.38	417	2.39	0.02
ZZ59816		1.09	54.4	2.38	1.83	0.06	0.05	1.53	0.023	0.05	4.0	4.9	0.19	733	4.76	0.02
ZZ59817		0.97	44.8	3.39	1.80	0.06	0.05	0.83	0.024	0.04	3.5	3.5	0.12	767	8.03	0.02
ZZ59818		1.00	52.4	2.38	1.85	0.05	0.05	0.81	0.028	0.05	3.3	4.6	0.13	368	4.37	0.01
ZZ59819		1.03	29.9	2.67	1.96	0.06	0.05	0.94	0.022	0.04	4.0	4.7	0.14	238	3.07	0.02
ZZ59820		0.97	39.9	1.94	1.71	0.05	0.04	1.45	0.024	0.05	3.4	4.6	0.31	223	2.58	0.02
ZZ59821		0.92	41.5	1.84	1.44	<0.05	0.07	0.90	0.021	0.06	2.9	3.7	0.17	169	3.55	0.02
ZZ59822		0.86	13.9	2.76	3.82	0.06	0.07	1.61	0.028	0.06	14.9	12.5	3.40	426	1.81	0.02
ZZ59823		0.85	13.1	2.93	4.50	<0.05	0.07	1.09	0.030	0.05	11.9	13.0	2.41	333	1.45	0.02
ZZ59824		0.79	17.4	2.09	2.90	<0.05	0.04	2.39	0.020	0.07	9.6	10.2	3.83	450	1.26	0.02
ZZ59825		0.76	9.8	1.76	2.52	<0.05	0.05	2.07	0.016	0.05	8.4	8.0	5.60	513	1.08	0.03
ZZ59826		1.13	23.3	3.38	5.52	0.06	0.04	0.47	0.035	0.05	12.5	12.9	0.41	823	1.50	0.01
ZZ59827		0.56	8.1	1.06	1.38	<0.05	0.03	1.39	0.012	0.03	3.7	4.4	7.02	327	1.11	0.03
ZZ59828		1.75	10.0	4.52	8.46	0.07	0.06	6.35	0.051	0.05	21.0	13.1	0.51	3180	1.52	0.02
ZZ59829		1.46	16.5	3.53	5.34	0.07	0.04	3.32	0.035	0.06	17.2	12.1	2.24	2370	3.21	0.02
ZZ59830		0.93	10.7	2.34	3.31	0.05	0.03	2.91	0.020	0.05	11.4	9.1	4.59	545	1.73	0.03
ZZ59831		0.83	9.0	2.03	2.70	<0.05	0.03	20.5	0.021	0.04	9.0	7.0	4.00	435	2.85	0.02
ZZ59832		0.52	25.0	1.80	2.50	<0.05	0.04	1.37	0.016	0.03	5.4	5.7	0.27	707	1.78	0.02
ZZ59833		0.87	54.5	2.96	1.33	0.05	0.06	0.56	0.030	0.06	3.0	1.4	0.06	90	6.90	0.01
ZZ59834		1.00	27.1	2.53	2.68	<0.05	<0.02	0.06	0.028	0.07	1.8	1.8	0.03	62	4.73	0.01
ZZ59835		0.85	52.2	1.66	1.33	0.05	0.06	0.17	0.030	0.07	2.5	1.6	0.03	24	3.97	0.01
ZZ59836		0.73	59.7	2.76	1.97	0.05	0.03	0.45	0.034	0.07	3.4	3.8	0.07	88	4.96	0.01
ZZ59837		0.65	29.8	1.60	1.61	0.05	0.05	0.23	0.025	0.06	2.5	3.2	0.08	138	4.39	0.02
ZZ59838		1.08	49.5	2.33	1.18	0.07	0.05	0.16	0.030	0.08	2.2	1.0	0.03	113	4.84	0.01
ZZ59839		1.19	68.8	3.12	2.03	0.07	0.04	0.56	0.038	0.09	4.9	3.4	0.16	163	6.29	0.02
ZZ59840		0.79	39.8	2.04	1.47	<0.05	0.02	0.26	0.032	0.06	2.3	3.1	0.03	35	4.58	0.01
ZZ59841		0.93	19.4	2.36	3.88	<0.05	0.03	1.35	0.028	0.08	7.8	8.1	0.17	177	4.21	0.01
ZZ59842		0.60	21.0	2.72	1.74	0.05	<0.02	11.85	0.016	0.02	8.3	3.0	0.10	877	14.00	0.02
ZZ59843		1.66	12.9	3.90	6.03	0.07	0.03	11.20	0.037	0.05	16.4	11.5	0.33	1530	11.75	0.02
ZZ59844		1.30	26.7	2.88	4.31	0.06	0.05	4.35	0.033	0.07	13.0	10.7	2.22	1920	3.11	0.02
ZZ59845		1.24	12.4	2.55	4.47	0.05	0.03	2.12	0.030	0.04	11.4	9.1	1.74	1320	1.28	0.02
ZZ59846		1.32	11.0	3.44	6.77	0.09	0.06	0.91	0.038	0.05	24.5	16.3	0.64	617	1.26	0.01
ZZ59847		2.14	11.1	4.00	7.82	0.07	0.05	0.36	0.045	0.06	19.8	14.6	0.53	1470	1.19	0.02
ZZ59848		1.53	17.6	3.45	5.07	0.07	0.06	2.01	0.036	0.06	15.6	14.6	1.32	429	3.34	0.02
ZZ59849		1.15	13.7	2.31	3.89	0.06	0.06	2.61	0.030	0.07	13.5	9.1	4.76	669	1.63	0.02
ZZ59850		1.31	17.9	3.16	5.88	0.05	0.03	0.58	0.034	0.06	15.0	13.8	0.58	656	1.21	0.02
ZZ59851		0.93	37.9	2.05	1.88	0.05	0.04	0.76	0.023	0.05	3.0	3.3	0.15	1030	3.73	0.02

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Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59812		0.58	34.4	800	18.6	7.4	0.002	0.07	0.81	3.6	1.3	0.4	26.6	<0.01	0.05	1.8
ZZ59813		0.47	26.4	610	16.3	6.1	0.003	0.09	0.89	2.6	2.2	0.4	28.5	<0.01	0.05	0.9
ZZ59814		0.73	55.4	300	26.5	12.7	<0.001	0.03	1.10	5.4	1.5	0.5	12.5	<0.01	0.07	4.9
ZZ59815		0.38	42.6	740	30.1	6.5	0.011	0.09	1.30	3.2	4.3	0.3	54.1	<0.01	0.06	1.0
ZZ59816		0.21	74.0	1030	33.1	6.5	0.018	0.12	1.39	3.5	9.9	0.3	87.6	<0.01	0.07	0.6
ZZ59817		0.22	76.6	1210	26.9	5.8	0.022	0.16	1.61	3.2	13.1	0.3	89.5	<0.01	0.06	0.4
ZZ59818		0.17	71.7	900	21.6	5.8	0.017	0.11	1.45	4.0	9.0	0.4	83.4	<0.01	0.08	0.6
ZZ59819		0.28	45.9	1120	40.1	6.8	0.030	0.14	1.10	3.3	9.8	0.3	78.0	<0.01	0.04	0.6
ZZ59820		0.20	63.7	960	26.7	5.9	0.009	0.11	1.34	2.9	5.5	0.3	82.7	<0.01	0.06	0.5
ZZ59821		0.13	60.5	970	22.1	6.2	0.018	0.13	1.25	3.1	8.5	0.3	91.3	<0.01	0.07	0.5
ZZ59822		0.65	30.7	540	87.1	8.3	<0.001	0.05	1.41	4.6	1.4	0.5	49.2	<0.01	0.05	2.8
ZZ59823		0.73	27.9	490	105.5	8.4	<0.001	0.05	1.19	4.3	1.2	0.5	30.4	<0.01	0.05	2.2
ZZ59824		0.47	28.4	850	70.6	8.0	0.001	0.07	1.15	2.2	1.1	0.3	56.5	<0.01	0.03	0.9
ZZ59825		0.37	23.9	490	91.2	6.5	<0.001	0.05	1.14	3.0	0.9	0.3	71.0	<0.01	0.02	1.4
ZZ59826		0.61	27.4	520	43.4	10.4	0.001	0.02	0.70	4.0	1.4	0.6	14.7	<0.01	0.05	1.5
ZZ59827		0.18	14.7	430	86.1	3.8	0.001	0.02	1.01	2.0	0.8	0.2	82.8	<0.01	0.01	0.8
ZZ59828		1.06	31.3	590	174.5	13.3	<0.001	0.04	1.97	7.5	1.3	1.0	12.9	<0.01	0.05	2.2
ZZ59829		0.52	33.9	1070	372	11.2	<0.001	0.07	3.49	4.4	1.9	0.7	32.0	<0.01	0.04	0.8
ZZ59830		0.46	22.7	900	118.0	8.5	<0.001	0.04	1.92	2.6	1.0	0.4	49.1	<0.01	0.02	0.7
ZZ59831		0.36	20.5	1070	335	5.8	0.001	0.05	4.07	2.8	1.2	0.4	57.1	<0.01	0.03	0.8
ZZ59832		0.46	15.5	1270	29.7	3.9	0.004	0.14	1.63	1.4	2.9	0.3	34.9	<0.01	0.05	0.4
ZZ59833		0.06	96.7	1440	14.7	5.1	0.008	0.06	1.52	5.5	4.9	0.4	195.5	<0.01	0.09	0.8
ZZ59834		0.18	48.2	560	12.3	10.5	0.001	<0.01	0.95	2.9	3.1	0.4	28.9	<0.01	0.09	0.8
ZZ59835		0.05	76.5	1190	9.2	6.4	0.009	0.04	1.01	5.4	5.4	0.3	137.5	<0.01	0.08	1.3
ZZ59836		0.12	84.1	530	12.7	6.3	0.002	0.03	1.05	7.8	4.5	0.4	65.0	<0.01	0.09	1.2
ZZ59837		0.09	42.6	890	9.0	6.3	0.042	0.24	0.99	3.9	7.9	1.5	100.5	<0.01	0.09	0.8
ZZ59838		<0.05	88.5	960	9.4	6.4	0.010	0.03	1.20	5.6	16.7	0.4	121.0	<0.01	0.09	1.2
ZZ59839		0.06	93.9	1950	12.3	7.0	0.002	0.05	1.68	7.1	5.3	0.4	177.5	<0.01	0.10	1.6
ZZ59840		0.07	39.1	580	21.2	5.8	0.004	0.02	1.22	4.2	3.5	0.4	92.8	<0.01	0.07	0.8
ZZ59841		0.42	26.1	800	52.2	9.5	0.001	0.06	1.59	2.8	1.9	0.6	57.6	<0.01	0.10	1.4
ZZ59842		0.25	41.0	3130	302	3.1	0.002	0.10	11.80	2.1	3.1	0.3	55.9	<0.01	0.03	0.2
ZZ59843		0.70	38.5	1170	172.5	7.8	0.001	0.05	3.59	5.1	2.5	0.8	27.0	<0.01	0.05	1.0
ZZ59844		0.45	33.2	1170	366	10.7	0.001	0.06	5.37	4.1	2.1	0.5	39.8	<0.01	0.05	0.8
ZZ59845		0.67	20.2	1070	86.1	8.5	0.001	0.08	1.77	2.4	0.9	0.5	28.6	<0.01	0.04	0.5
ZZ59846		1.24	27.9	420	58.4	11.8	<0.001	0.01	0.84	7.3	1.3	0.7	14.8	<0.01	0.04	4.0
ZZ59847		1.26	29.0	320	120.0	17.4	<0.001	0.02	0.99	7.0	1.1	0.9	11.3	<0.01	0.03	3.4
ZZ59848		0.76	39.0	380	106.0	12.2	<0.001	0.02	1.72	5.9	1.8	0.6	25.6	<0.01	0.08	4.2
ZZ59849		0.46	25.7	1040	155.0	13.0	0.001	0.05	1.66	3.5	1.3	0.5	52.0	<0.01	0.04	0.9
ZZ59850		0.93	27.0	530	47.4	9.4	0.001	0.02	0.79	4.1	1.3	0.6	20.4	<0.01	0.04	1.8
ZZ59851		0.19	60.4	990	22.9	6.6	0.019	0.11	1.34	2.8	10.5	0.3	94.2	<0.01	0.07	0.4

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**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59812		0.007	0.19	1.23	51	0.07	10.85	169	1.6
ZZ59813		0.007	0.17	1.27	46	0.08	9.78	142	1.2
ZZ59814		0.007	0.43	1.16	89	0.14	10.95	170	2.6
ZZ59815		0.006	0.42	1.66	62	0.13	13.10	263	1.4
ZZ59816		<0.005	0.34	4.68	53	0.09	20.7	296	1.7
ZZ59817		<0.005	0.25	5.22	53	0.09	19.50	287	1.7
ZZ59818		<0.005	0.22	2.87	59	0.09	19.35	256	1.7
ZZ59819		0.005	0.49	2.52	66	0.12	15.75	192	1.6
ZZ59820		<0.005	0.34	2.64	48	0.08	17.25	259	1.5
ZZ59821		<0.005	0.28	3.09	48	0.08	16.95	260	1.7
ZZ59822		0.016	0.55	1.86	63	0.32	15.00	210	1.8
ZZ59823		0.014	0.51	1.43	65	0.29	11.55	233	1.7
ZZ59824		0.015	0.55	1.73	44	0.42	11.35	225	1.0
ZZ59825		0.009	0.49	1.76	44	0.25	11.90	203	1.3
ZZ59826		0.010	0.27	2.06	72	0.21	12.10	149	1.0
ZZ59827		0.006	0.85	1.99	25	0.11	6.56	160	0.8
ZZ59828		0.031	1.14	3.07	121	0.30	22.5	801	1.6
ZZ59829		0.018	1.76	1.99	87	0.28	28.7	1100	1.0
ZZ59830		0.017	1.18	1.41	50	0.23	14.20	321	0.8
ZZ59831		0.010	0.92	3.80	46	0.42	11.00	926	0.8
ZZ59832		0.010	0.22	9.20	41	0.17	7.17	135	1.3
ZZ59833		<0.005	0.12	2.33	73	<0.05	29.1	311	2.7
ZZ59834		<0.005	0.18	0.63	70	0.05	4.37	189	0.7
ZZ59835		<0.005	0.09	3.83	48	<0.05	22.5	286	2.7
ZZ59836		<0.005	0.15	4.03	66	0.06	25.6	256	1.2
ZZ59837		<0.005	0.10	2.97	54	<0.05	17.95	187	1.7
ZZ59838		<0.005	0.09	2.17	44	<0.05	19.55	284	1.9
ZZ59839		<0.005	0.16	2.62	91	0.07	30.1	355	1.5
ZZ59840		<0.005	0.12	2.04	47	0.07	11.20	163	0.9
ZZ59841		0.012	0.52	2.97	67	0.21	7.98	161	0.7
ZZ59842		0.008	0.67	33.3	50	0.36	20.5	930	0.5
ZZ59843		0.019	3.97	10.70	103	0.36	25.2	512	0.7
ZZ59844		0.015	1.14	2.04	86	0.35	26.3	767	1.3
ZZ59845		0.020	0.79	3.73	66	0.21	13.60	503	0.7
ZZ59846		0.025	0.44	1.49	76	0.34	19.45	197	1.7
ZZ59847		0.039	0.71	1.91	104	0.25	19.15	408	1.4
ZZ59848		0.009	0.98	1.97	85	0.28	13.20	259	2.0
ZZ59849		0.010	1.94	2.14	66	0.31	18.65	321	1.6
ZZ59850		0.025	0.33	2.51	67	0.33	8.59	220	0.7
ZZ59851		<0.005	0.29	3.33	50	0.09	14.55	193	1.2

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**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59852		0.28	0.005	1.48	0.66	125.0	<0.2	10	980	0.86	0.17	2.27	2.23	6.96	6.9	27
ZZ59853		0.23	0.006	1.36	0.54	103.0	<0.2	<10	1000	0.56	0.13	1.84	1.50	5.25	5.7	22
ZZ59854		0.21	0.006	1.38	0.64	89.0	<0.2	10	860	0.70	0.13	3.48	2.63	6.87	5.2	23
ZZ59855		0.23	0.006	1.47	0.60	83.4	<0.2	10	810	0.64	0.14	2.01	2.22	7.38	4.8	24
ZZ59856		0.21	0.006	1.10	0.69	103.0	<0.2	<10	900	0.71	0.15	1.53	1.71	7.49	5.1	25
ZZ59857		0.21	0.007	1.34	0.89	166.0	<0.2	<10	650	0.92	0.16	1.93	2.49	11.05	7.7	28
ZZ59858		0.30	0.003	0.19	1.95	63.0	<0.2	<10	290	1.18	0.22	0.21	0.57	38.6	13.3	34
ZZ59859		0.31	0.002	0.15	1.94	144.5	<0.2	<10	370	1.33	0.22	0.42	0.49	37.7	12.0	33
ZZ59860		0.24	0.002	0.20	1.07	47.2	<0.2	<10	440	0.74	0.18	1.28	1.19	17.05	11.3	20
ZZ59861		0.15	0.001	0.24	1.29	40.2	<0.2	<10	450	0.95	0.21	1.27	0.93	17.00	11.6	22
ZZ59862		0.31	0.003	0.32	1.07	51.3	<0.2	<10	360	0.81	0.26	1.38	1.04	18.00	12.2	22
ZZ59863		0.27	0.003	0.39	1.25	66.8	<0.2	<10	640	0.88	0.25	1.44	1.32	15.50	11.1	24
ZZ59864		0.31	0.002	0.24	1.24	31.0	<0.2	<10	650	0.80	0.24	0.84	0.59	18.20	10.7	23
ZZ59865		0.30	0.003	0.13	2.14	46.8	<0.2	<10	390	0.97	0.31	0.23	0.51	36.3	11.8	34
ZZ59866		0.22	0.006	1.52	0.82	280	<0.2	10	530	0.79	0.20	1.72	1.66	9.80	6.6	27
ZZ59867		0.22	0.003	1.16	0.90	208	<0.2	10	590	0.79	0.18	1.80	2.23	11.40	9.8	25
ZZ59868		0.24	0.004	0.90	0.87	175.0	<0.2	<10	320	0.92	0.17	3.98	2.15	11.45	7.2	20
ZZ59869		0.28	0.006	1.21	0.80	160.0	<0.2	10	410	0.96	0.19	3.07	2.32	10.90	6.7	23
ZZ59870		0.32	0.004	1.19	0.51	102.5	<0.2	10	870	0.71	0.14	3.92	1.81	7.22	4.7	21
ZZ59871		0.19	0.005	1.48	0.57	84.1	<0.2	10	1000	0.71	0.18	1.31	1.79	6.12	6.0	24
ZZ59872		0.27	0.005	0.94	0.84	149.5	<0.2	10	410	0.79	0.18	2.79	1.48	10.80	6.7	22
ZZ59873		0.26	0.002	0.35	1.66	78.4	<0.2	<10	370	0.87	0.28	1.72	1.35	22.3	11.2	33
ZZ55566		0.17	0.003	0.44	1.16	43.4	<0.2	<10	510	0.81	0.22	1.82	0.83	22.2	9.1	26
ZZ55567		0.18	0.003	0.33	1.42	32.5	<0.2	<10	450	0.64	0.23	1.02	0.79	21.6	12.8	27
ZZ55568		0.17	0.003	0.40	1.00	31.4	<0.2	<10	370	0.65	0.19	4.58	1.06	18.60	11.4	20
ZZ55569		0.25	0.003	0.41	1.06	36.0	<0.2	<10	440	0.74	0.24	2.21	1.53	20.7	11.7	21
ZZ55570		0.18	0.001	0.13	0.89	22.3	<0.2	<10	400	0.30	0.22	0.77	0.47	16.45	4.5	16
ZZ55571		0.14	0.002	0.17	1.61	24.9	<0.2	<10	230	0.65	0.26	0.34	0.95	33.9	9.3	25
ZZ55572		0.23	0.004	0.42	1.86	28.2	<0.2	<10	420	1.03	0.28	0.35	0.60	41.5	16.6	32
ZZ55573		0.20	0.001	0.06	1.98	23.6	<0.2	<10	380	0.66	0.31	0.20	0.26	30.8	11.7	31
ZZ55574		0.25	0.005	0.45	1.79	26.0	<0.2	<10	670	0.99	0.34	0.61	1.02	25.4	17.2	32
ZZ55575		0.17	0.001	0.73	1.37	67.1	<0.2	<10	180	1.10	0.24	6.65	1.52	24.8	6.7	24
ZZ55576		0.20	0.002	0.24	1.67	24.8	<0.2	<10	290	1.12	0.37	3.74	0.69	21.8	15.0	28
ZZ55577		0.14	0.007	0.56	0.94	2250	<0.2	<10	210	5.36	0.16	9.93	2.82	22.3	14.9	17
ZZ55578		0.16	0.001	0.36	2.36	103.0	<0.2	<10	430	1.46	0.25	1.36	2.10	34.6	10.3	39
ZZ55579		0.22	0.003	0.59	1.71	296	<0.2	<10	290	0.96	0.32	1.57	0.83	28.6	12.0	30
ZZ55580		0.15	0.004	0.44	1.19	108.5	<0.2	<10	120	1.07	0.20	8.24	2.08	24.9	8.1	23
ZZ55581		0.15	0.005	0.27	1.75	186.5	<0.2	<10	370	1.39	0.27	1.30	1.37	25.8	11.6	35
ZZ55582		0.17	0.003	0.44	0.67	124	<0.2	<10	80	0.61	0.09	14.80	1.22	10.10	4.1	12
ZZ55583		0.19	0.005	0.45	0.91	137.5	<0.2	<10	230	0.88	0.15	8.03	0.77	15.35	8.4	17

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59852		1.24	59.8	2.44	1.96	0.05	0.04	0.87	0.031	0.06	3.7	4.3	0.73	188	6.20	0.02
ZZ59853		0.97	42.3	2.21	1.51	0.05	0.04	0.79	0.025	0.06	2.9	3.6	0.11	644	3.56	0.01
ZZ59854		1.09	41.2	1.77	1.74	<0.05	0.05	0.81	0.024	0.05	3.7	4.6	1.12	245	2.38	0.02
ZZ59855		0.93	43.1	1.80	1.67	0.05	0.05	0.89	0.026	0.06	3.7	4.6	0.27	165	2.49	0.01
ZZ59856		1.10	38.3	2.12	1.92	0.06	0.04	0.80	0.027	0.07	3.8	4.2	0.17	257	3.99	0.02
ZZ59857		0.85	46.5	2.46	2.27	0.05	0.05	1.15	0.027	0.07	5.0	6.8	0.22	481	2.49	0.02
ZZ59858		1.18	23.7	3.70	4.90	0.08	0.05	0.22	0.035	0.06	18.9	19.2	0.38	561	2.68	0.01
ZZ59859		1.35	16.9	3.67	5.13	0.05	0.05	0.45	0.035	0.05	16.3	14.7	0.41	672	2.82	0.01
ZZ59860		0.57	26.4	2.97	3.34	0.05	0.05	0.28	0.028	0.07	8.2	15.0	0.43	915	1.69	0.02
ZZ59861		0.58	27.0	3.22	3.75	0.05	0.05	0.33	0.031	0.08	8.3	16.8	0.37	449	1.62	0.02
ZZ59862		0.82	38.6	3.40	3.35	0.05	0.08	0.34	0.033	0.07	8.8	16.8	0.73	519	3.23	0.01
ZZ59863		0.73	37.0	3.20	3.68	<0.05	0.07	0.77	0.036	0.07	8.2	18.7	0.64	524	2.64	0.01
ZZ59864		0.61	26.8	2.95	3.92	<0.05	0.05	0.27	0.031	0.06	8.5	17.4	0.34	344	2.06	0.01
ZZ59865		1.67	14.8	3.62	5.91	0.05	0.04	0.12	0.038	0.05	12.7	19.3	0.48	452	1.98	0.01
ZZ59866		1.09	40.6	2.27	2.26	0.05	0.05	1.19	0.030	0.06	4.8	8.1	0.24	260	2.10	0.02
ZZ59867		1.00	41.2	2.47	2.70	0.05	0.04	0.92	0.027	0.05	5.7	9.3	0.27	742	3.44	0.02
ZZ59868		0.71	35.5	2.06	2.54	<0.05	0.04	1.11	0.028	0.05	5.7	10.3	1.36	386	2.44	0.02
ZZ59869		0.81	45.0	2.12	2.38	<0.05	0.04	2.26	0.028	0.05	5.5	8.7	1.07	211	2.73	0.01
ZZ59870		1.23	37.2	1.81	1.75	0.05	0.04	0.87	0.030	0.06	4.0	4.6	1.67	113	4.74	0.02
ZZ59871		0.79	49.3	2.14	1.66	<0.05	0.05	0.75	0.027	0.06	3.4	4.6	0.11	231	4.46	0.01
ZZ59872		0.90	29.4	1.98	2.44	<0.05	0.05	1.96	0.024	0.06	5.4	8.2	0.58	330	2.24	0.01
ZZ59873		1.42	17.9	2.96	5.09	<0.05	0.04	0.76	0.035	0.06	10.2	14.2	0.74	635	1.96	0.01
ZZ55566		0.68	31.0	3.24	3.59	0.05	0.05	0.35	0.033	0.05	13.3	16.7	0.91	616	2.57	0.01
ZZ55567		0.81	22.5	3.54	4.06	0.05	0.05	0.18	0.035	0.06	8.4	22.4	0.47	375	2.80	0.02
ZZ55568		0.59	35.0	3.07	2.91	0.05	0.06	0.26	0.028	0.05	9.7	16.3	2.16	618	2.54	0.02
ZZ55569		1.01	45.0	3.34	3.42	0.06	0.05	0.23	0.032	0.07	10.1	18.4	1.26	554	3.27	0.01
ZZ55570		0.80	15.6	2.29	4.32	<0.05	0.02	0.11	0.023	0.04	8.3	9.1	0.24	216	1.93	0.01
ZZ55571		1.05	13.4	2.99	5.16	0.05	0.03	0.19	0.028	0.04	13.9	16.2	0.31	521	2.23	0.01
ZZ55572		1.24	46.4	4.07	5.17	0.06	0.08	0.18	0.041	0.08	20.4	24.2	0.59	760	2.35	0.01
ZZ55573		1.27	17.9	3.80	6.30	<0.05	0.04	0.04	0.039	0.06	12.8	24.1	0.46	416	1.81	0.01
ZZ55574		1.76	63.7	4.24	5.09	0.05	0.07	0.24	0.040	0.12	11.1	23.5	0.61	855	4.45	0.01
ZZ55575		1.21	10.0	2.30	4.33	<0.05	0.03	0.81	0.026	0.06	11.5	17.5	3.37	343	1.12	0.03
ZZ55576		2.37	45.1	4.12	5.11	0.05	0.14	0.32	0.037	0.16	9.4	32.0	1.07	576	2.15	0.02
ZZ55577		13.40	13.0	2.77	2.53	0.05	0.04	1.09	0.021	0.06	10.0	13.5	5.36	1790	1.57	0.03
ZZ55578		1.63	16.9	3.87	4.13	0.06	0.04	0.46	0.043	0.04	16.1	16.0	0.68	523	2.88	0.01
ZZ55579		1.53	16.2	3.17	4.79	<0.05	0.05	0.82	0.034	0.07	10.9	16.0	0.93	897	1.82	0.02
ZZ55580		0.69	12.6	2.26	3.10	<0.05	0.02	1.17	0.025	0.04	11.2	10.8	4.51	864	1.60	0.02
ZZ55581		0.87	25.9	3.64	4.96	0.07	0.09	0.78	0.037	0.05	13.3	15.6	0.73	529	4.04	0.01
ZZ55582		0.61	6.5	1.06	1.59	<0.05	0.03	33.4	0.012	0.03	5.0	7.2	8.27	256	0.77	0.02
ZZ55583		0.49	17.1	2.19	2.51	<0.05	0.05	1.40	0.022	0.04	9.0	15.0	4.59	492	1.91	0.02



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**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59852		0.14	88.7	1010	34.3	7.0	0.016	0.07	1.91	4.8	8.1	0.4	87.4	<0.01	0.09	0.9
ZZ59853		0.13	64.2	1020	21.9	5.9	0.021	0.10	1.35	3.1	8.1	0.3	83.7	<0.01	0.08	0.5
ZZ59854		0.17	61.2	910	33.9	6.3	0.012	0.08	1.36	3.5	6.0	0.3	83.7	<0.01	0.06	0.7
ZZ59855		0.19	56.9	1000	26.6	6.2	0.017	0.10	1.24	3.6	7.8	0.3	89.6	<0.01	0.05	0.7
ZZ59856		0.17	51.0	1140	28.7	10.0	0.014	0.09	1.30	3.2	8.8	0.4	82.4	<0.01	0.08	0.6
ZZ59857		0.32	63.3	1040	41.0	6.5	0.019	0.10	1.55	3.6	8.9	0.4	71.5	<0.01	0.06	0.7
ZZ59858		0.81	38.0	320	23.2	10.9	<0.001	0.01	0.98	5.8	1.5	0.6	12.6	<0.01	0.06	4.7
ZZ59859		0.68	41.6	310	33.5	11.8	<0.001	0.01	1.01	5.7	1.4	0.6	14.9	<0.01	0.05	4.1
ZZ59860		0.61	28.6	730	16.5	7.0	0.005	0.04	0.76	3.7	1.8	0.4	26.5	<0.01	0.05	2.2
ZZ59861		0.56	31.6	750	19.7	8.1	0.001	0.05	0.70	4.2	1.5	0.4	26.7	<0.01	0.05	1.9
ZZ59862		0.46	43.5	880	22.4	6.7	0.002	0.02	1.27	5.7	1.8	0.4	31.9	<0.01	0.08	4.2
ZZ59863		0.41	42.0	610	22.7	8.0	0.004	0.03	1.31	5.6	1.8	0.4	24.8	<0.01	0.06	2.4
ZZ59864		0.63	30.2	640	18.3	7.9	0.002	0.02	0.91	4.6	1.7	0.5	28.7	<0.01	0.06	2.4
ZZ59865		1.04	31.2	250	21.9	11.8	<0.001	<0.01	0.84	4.3	0.5	0.7	14.1	<0.01	0.08	5.2
ZZ59866		0.30	49.0	960	41.8	8.0	0.019	0.09	1.48	4.1	6.2	0.4	57.2	<0.01	0.08	0.9
ZZ59867		0.38	46.9	930	40.9	8.0	0.012	0.08	1.64	3.2	6.6	0.4	61.4	<0.01	0.09	0.6
ZZ59868		0.40	38.3	690	42.8	6.7	0.003	0.05	1.41	2.8	3.3	0.4	50.6	<0.01	0.05	0.7
ZZ59869		0.34	50.2	780	52.6	5.8	0.005	0.06	1.60	3.8	4.3	0.4	58.6	<0.01	0.08	0.9
ZZ59870		0.12	51.5	1060	39.2	6.5	0.008	0.05	1.56	3.7	5.2	0.4	93.6	<0.01	0.12	1.1
ZZ59871		0.14	66.8	940	24.7	5.7	0.020	0.07	1.63	4.1	7.6	0.4	80.2	<0.01	0.10	0.6
ZZ59872		0.39	43.7	790	46.2	6.7	0.004	0.09	1.46	2.6	3.7	0.4	56.9	<0.01	0.06	0.6
ZZ59873		0.75	33.8	580	43.8	10.8	<0.001	0.02	0.98	4.6	1.6	0.7	30.0	<0.01	0.04	1.7
ZZ55566		0.69	33.0	1020	22.9	7.2	0.001	0.02	1.08	6.4	1.8	0.4	36.8	<0.01	0.08	2.3
ZZ55567		0.62	33.4	830	20.3	8.5	0.001	0.03	1.04	4.2	1.5	0.5	36.8	<0.01	0.07	2.2
ZZ55568		0.38	32.3	920	23.7	4.9	<0.001	0.02	1.20	5.7	1.3	0.3	64.0	<0.01	0.10	2.9
ZZ55569		0.42	38.4	930	22.4	6.8	<0.001	0.02	1.32	5.9	1.3	0.4	44.9	<0.01	0.06	2.9
ZZ55570		0.64	12.5	350	15.2	9.3	<0.001	0.01	0.63	2.5	0.7	0.5	17.6	<0.01	0.08	1.4
ZZ55571		0.99	23.9	540	21.2	9.1	<0.001	0.01	0.79	3.8	1.2	0.6	15.0	0.01	0.06	3.1
ZZ55572		0.65	41.7	650	21.4	9.6	<0.001	0.01	0.99	8.0	1.6	0.5	22.8	<0.01	0.10	5.0
ZZ55573		1.04	23.9	310	19.7	11.5	<0.001	<0.01	0.58	4.1	0.4	0.7	13.2	<0.01	0.08	4.1
ZZ55574		0.28	47.8	780	24.4	10.3	0.001	0.02	1.53	8.0	1.8	0.6	27.8	<0.01	0.09	4.4
ZZ55575		0.80	16.2	750	73.9	9.1	<0.001	0.05	1.84	3.0	0.5	0.6	71.6	<0.01	0.04	1.4
ZZ55576		0.28	38.1	610	24.2	11.2	0.002	<0.01	0.79	6.7	1.0	0.6	105.0	<0.01	0.12	6.0
ZZ55577		0.45	128.0	660	93.6	9.0	<0.001	0.02	1.41	3.7	1.4	0.3	71.7	<0.01	0.03	1.7
ZZ55578		0.67	33.5	710	63.9	9.1	0.001	0.04	1.28	6.1	1.3	0.5	19.5	0.01	0.06	2.0
ZZ55579		0.89	29.5	700	86.9	10.3	<0.001	0.03	1.43	4.2	1.1	0.6	23.6	<0.01	0.05	2.4
ZZ55580		0.46	19.4	930	70.2	6.1	0.001	0.05	1.37	2.6	0.7	0.4	55.7	<0.01	0.04	0.7
ZZ55581		0.47	40.3	350	91.8	8.1	0.001	0.02	1.51	10.5	1.7	0.6	25.3	<0.01	0.10	3.9
ZZ55582		0.22	11.0	730	85.2	6.2	<0.001	0.03	0.78	1.6	0.6	0.4	85.6	<0.01	0.02	0.6
ZZ55583		0.26	24.8	730	55.4	5.6	0.001	0.02	1.05	4.2	1.3	0.3	53.4	<0.01	0.05	1.7



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ59852		<0.005	0.32	4.38	66	0.10	20.7	342	1.5
ZZ59853		<0.005	0.28	3.54	48	0.06	14.95	242	1.3
ZZ59854		<0.005	0.31	2.09	48	0.10	16.20	291	1.7
ZZ59855		<0.005	0.29	2.36	48	0.09	17.40	271	1.7
ZZ59856		<0.005	0.33	3.36	59	0.10	16.95	204	1.5
ZZ59857		0.006	0.41	4.92	61	0.09	17.25	350	1.5
ZZ59858		0.011	0.34	1.41	81	0.17	15.10	155	1.6
ZZ59859		0.010	0.44	1.65	97	0.18	12.10	156	1.4
ZZ59860		0.008	0.18	1.09	48	0.07	9.97	152	1.3
ZZ59861		0.007	0.15	1.37	50	0.09	11.95	164	1.5
ZZ59862		0.008	0.35	1.20	59	0.09	13.60	171	3.3
ZZ59863		0.005	0.37	1.13	71	0.10	15.00	196	1.9
ZZ59864		0.008	0.15	1.77	51	0.11	10.40	133	1.6
ZZ59865		0.016	0.30	0.89	76	0.28	5.35	138	1.6
ZZ59866		0.005	0.75	3.34	55	0.13	16.65	374	1.9
ZZ59867		0.006	0.55	5.24	55	0.12	15.30	347	1.6
ZZ59868		0.007	0.69	3.70	44	0.15	11.90	369	1.4
ZZ59869		0.006	0.60	2.73	50	0.14	15.85	383	1.6
ZZ59870		<0.005	0.32	2.11	49	0.11	17.35	302	1.6
ZZ59871		<0.005	0.24	3.37	55	0.09	19.20	304	1.6
ZZ59872		0.007	0.84	3.27	49	0.21	11.45	294	1.4
ZZ59873		0.014	0.65	3.12	72	0.26	10.65	252	1.1
ZZ55566		0.011	0.14	1.57	63	0.10	23.1	150	1.5
ZZ55567		0.010	0.17	1.13	67	0.10	8.20	183	1.5
ZZ55568		0.007	0.27	1.23	58	0.08	15.85	164	1.9
ZZ55569		0.008	0.29	1.30	64	0.07	15.35	192	1.8
ZZ55570		0.013	0.17	0.82	66	0.13	5.51	85	0.6
ZZ55571		0.021	0.20	1.18	60	0.23	8.90	121	1.0
ZZ55572		0.014	0.23	1.44	60	0.14	21.4	121	2.8
ZZ55573		0.018	0.20	0.85	76	0.20	5.84	104	1.7
ZZ55574		0.006	0.27	1.26	85	0.08	15.60	206	2.3
ZZ55575		0.018	0.24	1.88	52	0.25	8.30	236	0.9
ZZ55576		0.009	0.26	1.03	47	0.07	9.76	150	5.7
ZZ55577		0.017	17.75	1.43	42	3.71	12.65	2580	1.8
ZZ55578		0.010	0.53	2.71	85	0.27	13.30	196	1.2
ZZ55579		0.025	1.85	4.01	56	0.40	8.05	354	1.3
ZZ55580		0.017	0.33	2.70	53	0.31	9.86	278	0.7
ZZ55581		<0.005	0.57	1.20	105	0.19	24.3	205	2.5
ZZ55582		0.007	0.70	1.23	25	0.10	5.14	205	1.0
ZZ55583		0.005	0.27	1.31	44	0.12	13.10	142	1.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55584		0.25	0.004	0.42	1.09	298	<0.2	<10	250	0.76	0.21	3.78	1.17	21.5	9.9	21
ZZ55585		0.15	0.007	0.73	1.00	281	<0.2	<10	90	1.08	0.21	6.83	1.71	16.75	10.6	20
ZZ55586		0.23	0.003	0.81	1.23	97.6	<0.2	<10	150	1.07	0.16	9.06	1.51	19.85	6.1	23
ZZ55587		0.21	0.006	0.86	1.09	147.5	<0.2	<10	120	1.18	0.19	8.69	1.39	14.80	8.2	23
ZZ55588		0.21	0.005	0.64	1.30	81.0	<0.2	<10	160	0.96	0.20	6.83	0.94	23.1	8.0	23
ZZ55589		0.22	0.005	0.76	0.94	173.5	<0.2	<10	140	1.02	0.18	9.62	1.09	15.55	7.8	19
ZZ55590		0.21	0.005	0.43	2.03	116.5	<0.2	<10	220	0.87	0.28	1.74	0.88	36.8	12.5	31
ZZ55591		0.18	0.005	0.75	1.13	188.5	<0.2	<10	130	0.89	0.18	8.10	0.89	17.40	7.6	21
ZZ55592		0.14	0.003	0.59	1.72	102.0	<0.2	<10	150	1.15	0.25	5.37	1.80	26.6	9.1	28
ZZ55593		0.18	0.006	0.60	0.67	148	<0.2	<10	60	0.77	0.11	13.15	1.95	9.32	5.8	12
ZZ55594		0.16	0.006	1.10	0.84	179	<0.2	<10	60	0.83	0.12	14.00	1.74	10.80	5.5	16
ZZ55595		0.21	0.005	0.41	1.07	166	<0.2	<10	120	0.83	0.15	10.40	0.89	14.75	6.6	19
ZZ55596		0.14	0.008	0.54	1.13	150.5	<0.2	<10	310	0.93	0.19	5.38	1.60	14.85	10.1	20
ZZ55597		0.11	0.010	1.88	0.67	428	<0.2	10	130	0.83	0.10	13.90	3.74	10.65	3.1	14
ZZ55598		0.19	0.004	0.50	1.81	84.6	<0.2	<10	190	1.13	0.24	4.71	1.63	27.7	8.9	29
ZZ55599		0.13	0.004	3.26	1.18	159	<0.2	10	130	2.66	0.23	11.10	3.18	29.2	6.8	31
ZZ55600		0.16	0.001	0.33	1.07	36	<0.2	<10	60	0.96	0.13	14.20	2.98	13.60	4.4	15
ZZ55601		0.16	0.004	0.50	1.09	101.0	<0.2	<10	370	0.75	0.21	4.07	1.06	15.90	9.6	21
ZZ55602		0.14	0.004	0.44	1.50	139.5	<0.2	<10	780	1.08	0.22	2.42	1.27	18.50	11.1	27
ZZ55603		0.19	0.004	0.29	1.92	39.5	<0.2	<10	280	1.22	0.39	2.98	0.65	22.8	16.9	31
ZZ55604		0.21	0.004	0.23	2.14	23.7	<0.2	<10	250	1.25	0.38	2.68	0.44	29.2	20.3	33
ZZ55605		0.24	0.005	0.33	1.93	21.2	<0.2	<10	440	1.01	0.32	0.59	0.50	24.4	15.8	32
ZZ55606		0.22	0.004	0.17	2.25	17.0	<0.2	<10	360	1.19	0.33	0.38	0.24	36.7	23.5	33
ZZ55607		0.27	0.005	0.49	1.74	44.3	<0.2	<10	390	1.15	0.27	0.30	0.62	32.5	16.1	30
ZZ55608		0.21	0.004	0.30	1.79	27.5	<0.2	<10	700	0.92	0.28	0.39	0.40	37.5	13.0	36
ZZ55609		0.18	0.003	0.29	1.58	25.1	<0.2	<10	400	0.87	0.24	1.01	0.81	25.6	13.5	29
ZZ55610		0.22	0.001	0.07	2.31	31.8	<0.2	<10	230	0.99	0.28	0.07	0.57	20.8	18.1	35
ZZ55611		0.26	0.005	0.30	2.03	50.0	<0.2	<10	560	1.47	0.29	0.21	0.81	40.5	16.0	35
ZZ55612		0.26	0.004	0.50	1.59	44.2	<0.2	<10	710	1.00	0.29	0.78	0.62	21.7	13.6	29
ZZ55613		0.17	0.003	0.38	1.68	38.5	<0.2	<10	600	0.82	0.26	0.42	0.38	22.7	9.3	30
ZZ55614		0.11	0.001	0.07	2.46	38.3	<0.2	<10	200	0.91	0.27	0.38	0.99	26.2	10.4	35
ZZ55615		0.24	0.004	0.38	1.29	77.6	<0.2	<10	440	0.78	0.23	2.71	0.83	19.40	10.2	25
ZZ55616		0.11	0.003	0.25	1.41	58.2	<0.2	<10	610	0.80	0.21	1.29	0.58	16.40	9.6	25
ZZ55617		0.18	0.005	0.48	1.88	71.5	<0.2	<10	360	1.43	0.25	0.73	0.41	28.5	10.4	37
ZZ55618		0.16	0.002	0.10	1.86	18.8	<0.2	<10	240	0.77	0.30	0.70	0.27	33.3	11.3	32
ZZ55619		0.15	0.003	0.92	0.76	166	<0.2	<10	80	0.86	0.12	11.75	1.52	12.60	6.3	17
ZZ55620		0.16	0.003	0.52	0.80	82	<0.2	<10	80	0.76	0.12	12.00	0.72	15.90	5.8	17
ZZ55621		0.13	0.002	1.19	1.57	695	<0.2	<10	130	1.10	0.20	6.26	5.90	17.90	7.6	24
ZZ55622		0.13	0.003	0.35	1.17	100	<0.2	<10	110	0.81	0.15	12.80	0.99	12.65	6.3	19
ZZ55623		0.25	0.003	1.14	0.43	197	<0.2	<10	50	0.56	0.07	17.75	4.42	6.80	3.7	9



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Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55584		0.77	23.8	2.76	3.36	0.05	0.05	1.33	0.023	0.06	9.8	17.3	2.13	400	2.11	0.02
ZZ55585		0.53	24.2	2.71	2.85	<0.05	0.06	2.31	0.024	0.06	8.1	16.6	3.73	556	2.44	0.02
ZZ55586		0.68	11.3	2.17	2.85	<0.05	0.04	1.90	0.026	0.04	11.9	12.5	5.05	523	1.86	0.02
ZZ55587		0.52	22.6	2.36	2.83	<0.05	0.06	1.57	0.029	0.05	9.1	12.5	4.32	610	3.26	0.02
ZZ55588		0.92	9.4	2.16	3.65	0.05	0.03	2.12	0.023	0.04	11.8	13.2	3.94	540	1.47	0.02
ZZ55589		0.95	21.0	2.07	2.56	0.05	0.06	1.72	0.026	0.06	8.9	12.5	5.20	453	2.33	0.02
ZZ55590		1.17	14.9	3.24	4.78	<0.05	0.05	0.77	0.036	0.07	13.6	16.0	0.93	692	1.94	0.01
ZZ55591		0.63	16.4	2.07	3.00	<0.05	0.05	2.33	0.021	0.06	9.0	8.8	4.51	371	1.84	0.02
ZZ55592		0.88	11.0	2.70	4.64	<0.05	0.05	1.23	0.026	0.06	13.3	12.0	3.27	527	1.13	0.02
ZZ55593		0.38	11.8	1.42	1.75	<0.05	0.04	1.87	0.013	0.05	4.4	7.2	7.28	439	1.58	0.02
ZZ55594		0.46	10.0	1.52	2.17	<0.05	0.05	3.30	0.015	0.04	5.7	6.7	7.94	560	1.39	0.02
ZZ55595		0.55	11.0	2.01	2.79	<0.05	0.03	0.98	0.017	0.04	11.1	9.3	5.98	549	1.81	0.02
ZZ55596		0.57	26.8	2.63	3.03	<0.05	0.04	1.41	0.024	0.06	7.4	12.5	2.31	537	2.46	0.01
ZZ55597		0.61	9.7	1.07	1.53	<0.05	0.03	9.03	0.010	0.04	5.8	3.7	7.56	846	1.06	0.02
ZZ55598		0.92	10.9	2.65	4.92	<0.05	0.04	2.66	0.026	0.05	13.9	12.7	2.87	576	1.31	0.01
ZZ55599		0.59	19.8	2.10	2.70	<0.05	0.06	5.80	0.021	0.06	14.5	6.2	5.32	855	1.29	0.02
ZZ55600		0.71	9.2	1.22	2.37	<0.05	0.02	0.34	0.015	0.03	7.8	5.4	7.74	566	0.90	0.02
ZZ55601		0.55	36.3	2.99	3.24	<0.05	0.05	0.32	0.028	0.08	8.6	15.2	1.64	376	2.41	0.01
ZZ55602		0.61	38.0	3.47	4.17	<0.05	0.06	0.34	0.035	0.07	10.6	14.8	1.12	555	3.24	0.01
ZZ55603		1.91	48.9	4.45	5.96	0.05	0.10	0.36	0.037	0.17	10.4	33.1	1.05	617	2.03	0.01
ZZ55604		2.41	63.9	4.92	6.88	0.06	0.14	0.27	0.040	0.19	13.2	45.6	1.16	593	1.77	0.01
ZZ55605		0.99	66.2	4.30	5.67	0.06	0.08	0.21	0.038	0.13	12.6	32.3	0.79	483	2.18	0.01
ZZ55606		1.15	83.1	5.10	6.80	0.06	0.09	0.18	0.040	0.12	18.1	40.3	1.06	1050	1.36	<0.01
ZZ55607		1.03	50.2	4.13	4.64	0.06	0.07	0.21	0.039	0.06	13.9	20.5	0.58	725	3.16	<0.01
ZZ55608		0.85	28.7	3.48	5.08	0.05	0.04	0.13	0.030	0.06	21.7	16.1	0.55	708	2.65	0.01
ZZ55609		0.57	35.6	3.37	4.98	0.05	0.05	0.23	0.032	0.07	11.4	21.1	0.62	376	1.71	0.01
ZZ55610		1.06	33.5	4.74	6.20	<0.05	0.06	0.08	0.047	0.06	8.5	28.2	0.58	604	2.32	<0.01
ZZ55611		1.22	55.1	4.27	5.35	0.07	0.06	0.25	0.043	0.07	19.7	20.3	0.47	733	3.83	<0.01
ZZ55612		1.21	53.2	3.90	4.91	0.05	0.07	0.39	0.037	0.10	12.0	18.2	0.65	647	3.58	0.01
ZZ55613		1.00	22.1	3.61	5.06	<0.05	0.04	0.86	0.034	0.06	11.4	18.0	0.41	403	2.56	0.01
ZZ55614		1.55	9.2	3.68	6.47	<0.05	0.04	0.40	0.038	0.04	12.2	20.3	0.32	252	2.15	0.01
ZZ55615		0.66	30.3	3.20	3.64	<0.05	0.04	0.31	0.025	0.07	11.3	14.5	1.45	424	2.57	0.01
ZZ55616		0.53	29.5	3.25	3.85	<0.05	0.04	0.19	0.027	0.05	10.0	14.4	0.52	478	1.95	0.01
ZZ55617		0.90	25.1	3.64	4.88	0.09	0.07	0.42	0.040	0.05	37.2	15.3	0.39	452	2.82	<0.01
ZZ55618		1.21	11.0	3.16	5.48	<0.05	0.05	0.05	0.026	0.06	15.4	14.8	0.73	496	1.85	0.01
ZZ55619		0.45	12.5	1.76	1.84	<0.05	0.03	1.18	0.017	0.04	7.0	6.8	5.38	405	2.00	0.02
ZZ55620		0.43	11.5	1.63	1.86	<0.05	0.03	0.46	0.016	0.04	8.6	7.1	6.40	333	2.31	0.02
ZZ55621		0.93	15.9	2.48	3.78	<0.05	0.03	4.10	0.018	0.04	9.2	9.9	3.74	1640	0.92	0.02
ZZ55622		0.56	9.1	1.89	2.84	<0.05	0.03	0.32	0.017	0.03	7.3	7.6	4.07	319	2.19	0.02
ZZ55623		0.43	7.8	0.93	1.12	<0.05	0.03	1.80	0.009	0.03	3.6	4.7	7.59	342	1.11	0.02



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**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ55584		0.54	35.4	890	55.2	5.7	0.001	0.01	1.47	4.4	1.1	0.4	45.6	<0.01	0.05	3.3
ZZ55585		0.30	30.1	990	146.0	5.6	0.001	0.04	1.45	4.0	2.1	0.3	55.1	<0.01	0.06	1.7
ZZ55586		0.33	22.3	840	102.0	7.3	<0.001	0.04	1.00	3.4	1.1	0.4	59.4	<0.01	0.07	1.2
ZZ55587		0.22	29.7	910	78.4	6.7	<0.001	0.05	1.98	4.6	1.8	0.4	65.9	<0.01	0.06	1.1
ZZ55588		0.68	21.3	590	101.0	7.9	<0.001	0.02	1.19	3.5	0.9	0.4	50.2	<0.01	0.04	2.1
ZZ55589		0.24	25.2	800	62.0	7.8	0.001	0.03	1.55	5.2	1.3	0.3	66.0	<0.01	0.06	1.5
ZZ55590		1.07	35.5	730	44.7	10.3	0.001	<0.01	1.51	3.8	1.0	0.6	24.4	<0.01	0.02	3.2
ZZ55591		0.49	26.5	880	78.8	7.1	0.001	0.02	1.46	2.6	1.0	0.4	54.8	<0.01	0.04	1.1
ZZ55592		0.88	21.5	490	132.0	9.5	0.001	0.01	0.91	3.4	0.7	0.6	36.2	<0.01	0.03	2.0
ZZ55593		0.21	19.4	800	81.6	5.3	0.001	0.01	3.82	1.7	0.9	0.3	79.6	<0.01	0.02	0.8
ZZ55594		0.22	19.5	810	185.0	5.6	0.001	<0.01	1.48	2.0	1.0	0.3	73.3	<0.01	0.02	0.8
ZZ55595		0.46	19.9	600	41.9	5.9	0.001	<0.01	1.05	3.2	1.0	0.4	60.8	<0.01	0.02	1.7
ZZ55596		0.35	30.9	920	44.7	7.3	0.001	0.03	1.39	3.5	1.2	0.4	50.0	<0.01	0.06	1.0
ZZ55597		0.20	13.0	940	591	6.0	0.001	0.04	2.01	1.1	0.7	0.3	62.8	<0.01	0.02	0.3
ZZ55598		0.89	22.8	510	59.5	9.1	0.001	<0.01	0.92	3.6	1.0	0.6	33.3	<0.01	0.04	1.8
ZZ55599		0.29	20.3	1140	173.5	6.6	0.001	0.07	1.94	2.2	1.1	0.5	79.2	<0.01	0.03	0.7
ZZ55600		0.32	13.1	790	24.5	5.3	0.001	0.04	0.61	0.9	0.6	0.3	73.4	<0.01	0.03	0.3
ZZ55601		0.39	33.0	900	20.4	5.6	<0.001	0.02	1.21	4.9	1.4	0.4	58.5	<0.01	0.04	1.7
ZZ55602		0.40	36.2	810	33.9	7.2	0.001	0.03	1.44	4.7	1.8	0.5	34.4	<0.01	0.05	1.3
ZZ55603		0.34	42.5	630	24.4	11.1	0.001	<0.01	0.83	6.2	1.0	0.7	81.6	<0.01	0.05	5.7
ZZ55604		0.17	44.5	630	22.0	11.4	0.002	<0.01	0.71	7.5	1.1	0.6	91.4	<0.01	0.09	6.1
ZZ55605		0.34	40.3	620	19.4	7.8	0.002	<0.01	0.91	6.9	0.9	0.5	25.2	<0.01	0.06	4.0
ZZ55606		0.13	44.2	570	20.3	7.7	0.001	<0.01	0.58	8.2	0.8	0.4	24.9	<0.01	0.08	5.5
ZZ55607		0.33	45.7	680	32.9	8.9	0.001	<0.01	1.18	6.5	1.3	0.5	18.0	<0.01	0.07	4.1
ZZ55608		0.97	35.7	380	23.1	8.9	0.001	<0.01	1.21	6.8	1.1	0.6	18.9	<0.01	0.06	4.9
ZZ55609		0.72	33.3	670	18.3	7.3	0.001	0.01	0.71	5.5	1.1	0.5	25.7	<0.01	0.08	2.5
ZZ55610		0.63	37.2	290	21.5	10.5	0.001	<0.01	0.76	4.2	0.7	0.6	7.4	<0.01	0.07	3.5
ZZ55611		0.46	52.0	600	26.3	11.2	0.001	<0.01	1.25	8.8	1.8	0.6	17.8	<0.01	0.07	5.2
ZZ55612		0.45	46.4	700	25.4	9.5	0.001	<0.01	1.31	6.8	1.5	0.6	29.2	<0.01	0.07	4.2
ZZ55613		0.74	31.7	500	24.4	11.2	<0.001	<0.01	0.93	4.4	0.9	0.6	16.8	<0.01	0.04	2.4
ZZ55614		1.60	29.1	370	19.8	11.5	<0.001	<0.01	0.74	3.4	0.5	0.8	10.0	<0.01	0.04	3.1
ZZ55615		0.55	34.1	820	20.4	6.5	0.001	<0.01	1.21	4.5	1.2	0.4	31.4	<0.01	0.04	2.3
ZZ55616		0.53	31.1	540	16.8	6.2	0.001	<0.01	0.81	4.5	1.1	0.4	21.0	<0.01	0.06	2.0
ZZ55617		0.55	35.8	410	22.4	8.7	0.001	<0.01	1.03	9.4	2.1	0.6	14.2	<0.01	0.06	4.6
ZZ55618		1.30	22.7	270	15.8	10.1	<0.001	<0.01	0.68	3.5	0.5	0.7	15.6	<0.01	0.05	3.7
ZZ55619		0.21	20.9	860	136.5	5.8	0.001	0.02	1.51	2.1	1.3	0.3	79.9	<0.01	0.03	0.7
ZZ55620		0.21	21.1	850	49.9	5.6	0.001	0.02	1.24	1.9	0.8	0.3	74.6	<0.01	0.04	0.6
ZZ55621		0.56	22.1	860	390	7.8	<0.001	0.03	3.12	1.5	0.5	0.5	35.7	<0.01	0.01	0.7
ZZ55622		0.44	21.3	560	41.7	5.7	0.001	0.01	1.04	2.3	0.8	0.4	70.4	<0.01	0.04	0.9
ZZ55623		0.14	13.5	440	317	3.8	0.001	<0.01	4.27	1.3	0.5	0.2	119.5	<0.01	0.02	0.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55584		0.015	0.75	1.15	50	0.17	10.45	455	1.6
ZZ55585		0.006	0.88	1.40	48	0.15	11.90	338	1.5
ZZ55586		0.006	0.62	2.14	48	0.17	14.30	286	1.3
ZZ55587		<0.005	0.53	1.62	85	0.17	18.75	250	1.7
ZZ55588		0.018	0.46	1.09	42	0.33	7.98	252	1.0
ZZ55589		<0.005	0.47	1.46	53	0.23	16.60	191	1.8
ZZ55590		0.022	0.36	1.39	58	0.41	9.75	195	1.4
ZZ55591		0.014	0.35	1.29	42	0.22	11.70	186	1.4
ZZ55592		0.022	0.40	1.06	54	0.32	8.15	308	1.1
ZZ55593		0.005	0.52	1.29	29	0.13	6.71	282	1.3
ZZ55594		0.006	0.93	1.48	37	0.18	10.15	319	1.2
ZZ55595		0.010	0.41	1.59	52	0.18	11.70	206	1.1
ZZ55596		0.005	0.48	1.68	56	0.11	14.45	217	1.2
ZZ55597		0.006	1.34	1.74	28	0.17	8.92	447	0.6
ZZ55598		0.020	0.65	1.44	58	0.44	10.70	266	1.2
ZZ55599		0.006	1.03	3.74	58	0.58	14.20	382	1.5
ZZ55600		0.011	0.20	2.23	34	0.23	7.84	546	0.6
ZZ55601		<0.005	0.33	1.36	58	0.08	15.00	179	1.6
ZZ55602		<0.005	0.42	1.16	86	0.13	19.15	194	1.6
ZZ55603		0.008	0.27	0.99	52	0.06	10.65	165	4.3
ZZ55604		0.007	0.20	0.79	52	0.05	10.50	139	6.8
ZZ55605		0.007	0.15	0.97	63	0.08	13.50	128	2.7
ZZ55606		<0.005	0.11	0.72	55	<0.05	15.50	102	4.6
ZZ55607		<0.005	0.27	1.28	66	0.07	15.10	152	2.4
ZZ55608		0.027	0.16	1.76	76	0.23	18.80	132	1.5
ZZ55609		0.012	0.13	1.52	62	0.11	11.85	125	1.8
ZZ55610		0.007	0.27	0.58	91	0.10	3.84	107	2.4
ZZ55611		0.005	0.33	1.92	91	0.08	24.7	182	2.3
ZZ55612		0.007	0.26	1.12	80	0.10	17.60	175	2.5
ZZ55613		0.009	0.19	1.40	90	0.12	11.25	150	1.1
ZZ55614		0.019	0.31	1.07	89	0.22	7.95	142	1.6
ZZ55615		0.011	0.26	1.28	64	0.14	15.20	161	1.5
ZZ55616		0.007	0.15	1.02	65	0.10	15.00	125	1.3
ZZ55617		<0.005	0.28	2.18	82	0.12	44.3	160	1.7
ZZ55618		0.032	0.18	0.86	61	0.27	5.94	83	1.5
ZZ55619		0.005	0.42	1.79	42	0.14	10.50	250	0.9
ZZ55620		0.005	0.26	1.51	43	0.14	11.20	129	0.8
ZZ55621		0.016	5.28	1.41	42	0.30	7.67	2270	0.8
ZZ55622		0.008	0.44	1.62	56	0.19	12.05	167	0.9
ZZ55623		0.005	1.23	2.01	24	0.14	6.14	812	0.8



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 Account: RCM

Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55624		0.14	0.005	3.70	0.42	162	<0.2	10	40	1.28	0.06	17.75	10.75	12.65	3.1	11
ZZ55625		0.12	0.003	1.56	1.09	123	<0.2	<10	100	1.24	0.15	11.05	3.32	16.35	7.0	19

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
ZZ55624		0.56	5.1	1.15	1.04	<0.05	0.03	9.53	0.011	0.04	5.7	4.9	9.25	407	0.89	0.03
ZZ55625		0.66	11.5	1.78	2.68	<0.05	0.03	2.33	0.016	0.05	7.9	8.3	6.28	770	1.26	0.02

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Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ55624		0.14	9.8	600	393	4.1	0.001	0.06	2.82	1.3	0.4	0.3	153.0	<0.01	0.01	0.5
ZZ55625		0.38	20.0	980	205	8.4	0.001	0.03	2.59	1.6	0.7	0.4	65.4	<0.01	0.01	0.6

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Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55624		<0.005	0.54	2.61	19	0.33	5.43	1020	0.7
ZZ55625		0.011	0.62	1.59	42	0.29	8.17	454	0.9

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Project: ATAC- Regional Area D- MooseLake

**CERTIFICATE OF ANALYSIS WH12157367**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12157368**

Project: ATAC- Regional Area D MooseLake  
 P.O. No.: Soil 15  
 This report is for 114 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55501		0.18	0.005	0.30	1.38	25.5	<0.2	<10	610	0.71	0.22	1.26	1.11	23.7	14.3	26
ZZ55502		0.19	0.001	0.07	1.36	21.4	<0.2	<10	250	0.54	0.20	0.15	0.14	23.5	9.1	24
ZZ55503		0.19	0.002	0.45	2.78	141.5	<0.2	<10	300	1.27	0.24	0.23	3.13	32.1	20.6	38
ZZ55504		0.15	0.001	0.07	1.81	49.5	<0.2	<10	460	0.54	0.27	0.24	1.53	19.80	11.4	27
ZZ55505		0.19	0.002	0.38	1.22	30.1	<0.2	<10	400	0.77	0.19	4.14	1.31	22.1	11.0	23
ZZ55506		0.22	0.004	0.23	1.77	32.5	<0.2	<10	320	0.83	0.26	2.28	0.73	24.9	24.7	28
ZZ55507		0.13	0.002	0.56	1.49	71.8	<0.2	<10	140	1.99	0.17	8.23	1.86	20.9	8.6	22
ZZ55508		0.15	0.001	0.53	0.99	177	<0.2	<10	80	1.18	0.11	12.15	3.21	11.25	7.8	16
ZZ55509		0.11	0.002	0.37	1.01	371	<0.2	<10	340	0.88	0.20	2.16	1.63	8.43	10.3	17
ZZ55510		0.14	0.002	0.22	1.37	192.0	<0.2	<10	520	1.02	0.21	3.30	0.93	20.0	14.9	24
ZZ55511		0.18	0.003	0.28	1.76	90.7	<0.2	<10	180	0.81	0.24	0.82	1.37	23.6	14.9	29
ZZ55512		0.17	0.003	0.46	0.92	88.4	<0.2	<10	450	0.63	0.15	6.39	1.41	13.95	11.3	20
ZZ55513		0.17	0.001	0.23	2.31	93.7	<0.2	<10	280	1.14	0.30	1.03	5.20	26.9	9.5	35
ZZ55514		0.27	0.003	1.66	1.39	479	<0.2	<10	200	3.90	0.16	10.35	5.24	20.7	7.9	18
ZZ55515		0.12	0.003	1.10	1.12	325	<0.2	<10	170	1.02	0.15	6.31	4.77	14.95	7.2	19
ZZ55516		0.29	0.001	0.15	1.85	243	<0.2	<10	200	1.03	0.23	0.46	2.05	27.6	10.9	31
ZZ55517		0.21	0.002	0.43	1.22	84.2	<0.2	<10	130	0.53	0.16	4.23	1.45	14.40	5.8	18
ZZ55518		0.14	0.005	1.13	0.61	206	<0.2	<10	100	0.93	0.10	14.05	1.52	7.82	5.5	13
ZZ55519		0.12	0.004	0.48	1.84	119.0	<0.2	<10	200	1.71	0.24	3.77	2.56	27.3	10.4	28
ZZ55520		0.12	0.002	2.03	2.07	183.5	<0.2	<10	220	1.57	0.21	7.13	4.15	23.5	9.8	31
ZZ55521		0.15	0.002	0.29	2.53	116.0	<0.2	<10	230	1.77	0.28	0.95	2.48	32.8	11.7	37
ZZ55522		0.19	0.002	0.33	2.07	118.0	<0.2	<10	230	1.17	0.24	0.34	1.31	30.0	10.8	35
ZZ55523		0.13	0.004	0.86	1.69	401	<0.2	<10	220	1.26	0.26	2.50	2.26	23.9	10.6	32
ZZ55524		0.17	0.004	0.67	2.09	263	<0.2	<10	200	1.46	0.25	3.23	2.42	25.9	9.6	38
ZZ55525		0.17	0.007	2.11	1.18	215	<0.2	<10	90	1.58	0.13	12.25	3.06	18.00	6.7	22
ZZ55526		0.26	0.004	0.87	0.39	158	<0.2	<10	70	0.70	0.06	16.90	3.34	6.39	4.9	10
ZZ55527		0.16	0.005	1.94	1.04	174	<0.2	<10	90	1.00	0.12	11.40	3.29	13.80	5.9	18
ZZ55528		0.17	0.004	1.49	1.34	137.0	<0.2	<10	100	2.31	0.14	9.76	2.14	20.4	6.6	24
ZZ55529		0.18	0.002	0.58	1.85	125.0	<0.2	<10	130	1.60	0.21	5.57	1.82	25.3	9.2	29
ZZ55530		0.16	0.004	0.59	0.65	318	<0.2	<10	60	0.78	0.09	13.70	2.00	12.65	4.9	13
ZZ55531		0.23	0.002	0.12	2.11	105.5	<0.2	<10	320	1.13	0.25	0.96	1.49	25.0	10.4	35
ZZ55532		0.16	0.002	0.18	1.98	100.5	<0.2	<10	270	1.33	0.19	0.85	1.10	23.7	13.0	35
ZZ55533		0.18	0.001	0.50	1.45	81.9	<0.2	<10	140	1.43	0.15	6.68	1.47	18.80	7.1	24
ZZ55534		0.13	0.002	0.48	0.70	136	<0.2	<10	130	0.85	0.10	12.20	1.61	12.55	6.9	14
ZZ55535		0.23	0.003	0.32	1.14	55.1	<0.2	<10	390	0.70	0.18	2.18	0.97	20.1	10.4	21
ZZ55536		0.18	<0.001	0.10	1.78	74.0	<0.2	<10	530	0.85	0.23	0.60	1.12	20.7	10.2	29
ZZ55537		0.23	0.009	74.6	0.43	4840	<0.2	<10	70	1.28	0.13	14.70	132.5	12.65	5.2	13
ZZ55538		0.24	0.001	0.31	1.85	140.0	<0.2	<10	490	1.18	0.23	1.14	2.09	29.1	10.2	29
ZZ55539		0.21	0.002	0.20	1.78	54.9	<0.2	<10	190	0.87	0.26	0.39	0.97	32.1	9.7	31
ZZ55540		0.16	0.001	0.16	1.42	44.9	<0.2	<10	680	0.70	0.22	1.30	0.84	17.45	7.2	24

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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55501		0.74	40.5	3.11	4.20	0.11	0.08	0.20	0.031	0.06	12.0	18.9	0.51	486	1.48	0.01
ZZ55502		0.87	24.0	3.03	4.38	0.10	0.03	0.09	0.024	0.05	11.7	18.3	0.41	213	1.77	0.01
ZZ55503		1.16	44.4	4.97	6.89	0.15	0.09	0.19	0.051	0.06	16.2	32.7	0.45	754	2.73	0.01
ZZ55504		0.78	19.8	4.36	6.85	0.11	0.05	0.07	0.036	0.06	8.8	27.2	0.28	399	3.95	<0.01
ZZ55505		0.68	40.0	2.39	3.81	0.11	0.05	0.52	0.026	0.06	11.9	16.7	1.60	510	1.27	0.02
ZZ55506		1.19	80.3	4.33	5.41	0.14	0.11	0.23	0.037	0.10	11.9	31.7	1.50	804	1.95	0.01
ZZ55507		0.85	13.4	2.19	3.64	0.08	0.04	0.46	0.024	0.05	9.8	10.7	4.25	817	1.01	0.02
ZZ55508		0.90	15.5	1.56	2.43	0.06	0.05	0.40	0.020	0.06	6.0	10.4	6.56	518	1.30	0.02
ZZ55509		5.64	26.5	2.80	3.16	0.08	0.05	0.66	0.032	0.10	3.3	13.2	0.36	244	1.19	0.01
ZZ55510		0.73	49.1	3.54	3.85	0.09	0.10	0.39	0.036	0.07	9.8	19.0	0.71	524	2.83	0.01
ZZ55511		1.00	22.8	4.39	4.94	0.11	0.08	0.27	0.040	0.06	11.5	25.5	0.49	854	2.79	0.01
ZZ55512		0.84	26.1	2.43	2.78	0.08	0.06	0.37	0.027	0.07	6.2	16.3	2.85	636	2.79	0.02
ZZ55513		1.17	11.6	3.41	6.87	0.10	0.05	0.59	0.041	0.05	13.1	15.7	0.63	572	1.24	0.01
ZZ55514		0.59	13.2	2.64	3.40	0.08	0.06	1.28	0.031	0.07	9.7	9.4	5.36	4100	1.53	0.02
ZZ55515		0.72	16.1	1.82	2.99	0.07	0.04	3.22	0.022	0.05	7.7	8.9	2.98	867	1.10	0.02
ZZ55516		0.87	11.0	3.27	5.95	0.07	0.05	0.33	0.032	0.04	12.0	16.6	0.53	711	1.39	0.01
ZZ55517		0.62	7.9	2.09	4.32	0.05	0.04	0.93	0.020	0.03	7.4	11.3	2.38	317	1.43	0.01
ZZ55518		0.58	12.3	1.23	1.63	0.05	0.05	3.65	0.014	0.04	3.9	7.6	7.47	332	1.87	0.02
ZZ55519		0.91	13.9	2.91	4.98	0.10	0.06	0.81	0.032	0.06	14.0	16.3	2.07	830	1.30	0.02
ZZ55520		1.33	13.2	2.81	5.44	0.09	0.08	2.87	0.038	0.07	12.5	13.5	4.03	1440	2.45	0.02
ZZ55521		1.32	10.9	3.61	6.79	0.09	0.08	0.53	0.038	0.11	15.1	16.9	0.81	1080	1.73	0.02
ZZ55522		1.35	11.0	3.43	5.87	0.10	0.07	1.88	0.036	0.05	15.1	17.4	0.53	542	1.75	0.01
ZZ55523		1.40	15.5	3.50	4.52	0.10	0.06	8.36	0.041	0.07	11.2	12.3	0.85	701	3.55	0.02
ZZ55524		1.19	11.7	3.26	5.86	0.10	0.10	4.97	0.039	0.06	15.0	13.1	1.87	622	2.28	0.02
ZZ55525		0.79	9.8	1.83	2.99	0.06	0.08	6.12	0.023	0.05	9.3	10.6	6.64	644	2.20	0.02
ZZ55526		0.46	7.7	1.06	0.99	0.05	0.04	3.92	0.012	0.04	3.7	4.4	8.48	338	1.99	0.02
ZZ55527		0.70	9.2	1.73	2.66	0.06	0.04	21.0	0.020	0.03	7.5	7.8	6.05	471	1.52	0.02
ZZ55528		0.67	11.9	2.02	3.22	0.08	0.07	5.30	0.025	0.05	12.1	10.6	5.33	399	1.92	0.02
ZZ55529		1.01	12.0	2.77	4.91	0.08	0.07	0.99	0.035	0.05	13.6	17.5	3.30	593	1.38	0.02
ZZ55530		0.60	8.2	1.21	1.85	0.05	0.03	4.31	0.016	0.03	6.3	7.5	7.69	507	1.03	0.02
ZZ55531		0.91	14.4	3.37	5.97	0.07	0.05	0.41	0.036	0.05	10.5	18.3	0.63	658	1.52	0.01
ZZ55532		0.63	24.7	3.83	5.00	0.12	0.09	0.31	0.043	0.04	15.0	24.2	0.59	594	2.97	0.01
ZZ55533		0.74	14.1	2.45	3.78	0.07	0.05	0.65	0.030	0.04	10.9	13.5	3.64	369	1.48	0.02
ZZ55534		0.64	12.1	1.57	1.88	0.06	0.05	1.03	0.019	0.04	6.4	10.3	6.17	372	1.56	0.02
ZZ55535		0.54	26.6	2.74	3.51	0.10	0.07	0.22	0.031	0.05	11.0	15.0	1.15	491	1.70	0.01
ZZ55536		0.86	19.7	3.53	5.52	0.10	0.05	0.16	0.041	0.06	9.8	18.6	0.39	458	3.30	0.01
ZZ55537		1.12	23.8	1.33	1.72	0.07	0.07	164.0	0.026	0.05	6.2	5.3	6.79	591	1.55	0.03
ZZ55538		0.74	15.6	4.45	4.57	0.11	0.07	1.16	0.042	0.05	14.2	12.3	0.59	828	3.13	0.01
ZZ55539		0.90	10.2	3.02	5.19	0.09	0.06	0.23	0.029	0.05	15.3	13.3	0.55	369	1.32	0.01
ZZ55540		0.77	24.4	3.01	4.60	0.09	0.04	0.17	0.038	0.04	10.1	17.4	0.32	335	2.25	0.01



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**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ55501		1.01	37.2	1030	18.1	8.5	0.001	0.10	0.85	5.1	1.7	0.4	42.9	0.01	0.06	3.1
ZZ55502		0.83	23.9	530	15.3	9.6	0.001	0.09	0.57	3.6	0.9	0.4	13.7	<0.01	0.05	2.9
ZZ55503		0.94	47.9	620	24.1	13.7	0.001	0.15	0.70	8.3	1.5	0.6	11.7	0.01	0.08	3.5
ZZ55504		1.43	24.6	290	39.3	9.4	<0.001	0.24	0.95	3.4	0.9	0.7	10.2	0.01	0.06	2.5
ZZ55505		0.85	27.8	790	21.2	8.2	0.001	0.32	0.78	3.5	1.3	0.4	50.4	0.01	0.04	0.9
ZZ55506		0.32	44.7	780	23.1	7.5	0.001	0.22	0.78	7.7	1.1	0.4	45.6	0.01	0.09	3.7
ZZ55507		0.65	19.2	960	63.7	9.5	0.001	0.10	1.46	1.9	0.7	0.5	51.4	0.01	0.04	0.5
ZZ55508		0.28	19.8	870	165.0	8.0	0.001	0.08	1.88	1.9	0.7	0.3	82.9	<0.01	0.04	0.5
ZZ55509		0.24	31.6	750	72.9	15.1	0.003	0.14	3.14	3.3	1.7	0.4	30.1	<0.01	0.06	1.1
ZZ55510		0.54	38.6	590	29.5	9.0	0.001	0.07	1.12	6.5	1.5	0.4	54.2	0.01	0.06	2.5
ZZ55511		1.34	30.7	900	28.4	12.6	0.001	0.06	1.01	4.9	1.1	0.5	21.8	0.01	0.07	3.2
ZZ55512		0.39	33.6	900	33.3	6.7	0.002	0.07	1.26	4.0	1.4	0.3	70.3	<0.01	0.05	1.3
ZZ55513		1.70	23.1	420	108.0	12.2	0.001	0.05	1.22	4.1	0.6	0.8	16.0	0.01	0.04	2.2
ZZ55514		0.45	22.2	1160	367	8.6	0.001	0.11	1.71	2.2	0.9	0.5	66.9	0.01	0.06	0.6
ZZ55515		0.64	22.9	1040	365	9.6	0.001	0.11	1.59	1.7	1.5	0.4	39.0	0.01	0.04	0.4
ZZ55516		1.34	22.1	200	224	8.2	<0.001	0.03	0.62	4.3	0.6	0.7	12.4	<0.01	0.03	3.4
ZZ55517		0.84	15.0	410	100.5	6.0	0.001	0.04	0.70	2.9	0.6	0.5	28.3	<0.01	0.04	1.3
ZZ55518		0.25	20.5	900	119.0	8.3	0.001	0.08	1.56	1.8	0.9	0.2	87.1	<0.01	0.03	0.6
ZZ55519		1.05	24.8	690	65.9	9.9	0.001	0.07	0.87	3.7	0.9	0.5	31.8	0.01	0.04	1.6
ZZ55520		0.71	27.1	850	541	14.7	0.001	0.08	2.09	3.9	1.3	0.7	42.5	0.01	0.05	1.3
ZZ55521		1.24	28.2	550	134.0	19.3	<0.001	0.06	1.34	4.9	0.7	0.8	15.8	0.01	0.04	2.7
ZZ55522		1.19	27.9	210	75.7	11.7	0.001	0.03	0.94	5.6	0.8	0.7	12.6	0.01	0.04	4.6
ZZ55523		0.76	37.6	690	199.0	10.2	0.001	0.07	3.46	4.7	1.4	0.6	26.4	0.01	0.06	1.4
ZZ55524		1.08	31.0	420	205	10.5	0.001	0.06	2.58	6.9	1.1	0.8	27.3	0.01	0.04	3.3
ZZ55525		0.45	20.5	840	270	9.0	0.001	0.08	3.74	3.2	1.1	0.4	65.8	0.01	0.04	1.0
ZZ55526		0.22	15.7	540	151.5	3.7	0.001	0.04	1.55	2.0	1.0	0.2	101.0	<0.01	0.03	0.6
ZZ55527		0.51	19.6	900	314	6.2	0.001	0.07	2.12	2.2	0.9	0.4	63.1	0.01	0.03	0.5
ZZ55528		0.50	22.7	1320	212	8.6	0.001	0.08	1.47	3.1	1.2	0.4	58.3	0.01	0.04	1.0
ZZ55529		0.99	23.7	580	84.4	11.0	0.001	0.05	0.76	4.4	0.8	0.6	37.3	0.01	0.03	2.0
ZZ55530		0.47	21.0	920	135.0	5.3	0.001	0.06	1.37	2.3	0.9	0.2	65.7	<0.01	0.03	0.8
ZZ55531		1.20	26.0	340	52.7	8.6	<0.001	0.08	0.75	4.5	0.6	0.7	17.3	<0.01	0.04	2.3
ZZ55532		0.71	38.2	380	32.9	5.6	0.001	0.06	0.96	8.2	1.5	0.5	19.8	0.01	0.06	3.2
ZZ55533		0.61	20.2	830	69.6	8.4	0.001	0.09	1.30	3.0	0.9	0.4	44.0	0.01	0.04	0.6
ZZ55534		0.40	20.9	640	85.4	5.7	0.002	0.07	1.39	2.7	0.8	0.2	81.8	<0.01	0.04	0.9
ZZ55535		0.76	33.6	680	21.5	6.2	0.001	0.01	0.90	4.4	1.2	0.4	30.1	0.01	0.04	2.4
ZZ55536		0.88	31.3	330	28.9	7.9	<0.001	0.01	0.86	4.8	1.1	0.7	18.4	<0.01	0.05	2.3
ZZ55537		0.23	15.5	620	>10000	5.1	0.001	0.64	82.7	2.2	5.0	0.6	151.0	<0.01	0.05	1.1
ZZ55538		0.57	27.1	270	68.3	7.4	<0.001	0.01	1.10	6.3	1.2	0.6	15.5	0.01	0.08	4.3
ZZ55539		1.20	22.0	220	38.0	9.7	<0.001	<0.01	0.89	4.6	0.5	0.6	13.3	<0.01	0.06	4.5
ZZ55540		0.71	24.6	530	21.1	9.8	<0.001	0.03	0.88	3.7	1.2	0.5	28.6	0.01	0.05	0.9

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46	Pb- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001
ZZ55501		0.020	0.15	2.25	50	0.17	12.10	142	2.3		
ZZ55502		0.016	0.14	0.80	47	0.13	7.58	95	0.5		
ZZ55503		0.007	0.31	1.33	97	0.13	20.1	132	2.3		
ZZ55504		0.012	0.24	0.53	107	0.17	3.29	151	1.7		
ZZ55505		0.017	0.14	1.90	54	0.21	13.80	119	1.3		
ZZ55506		0.006	0.22	0.83	58	0.07	13.80	140	3.7		
ZZ55507		0.016	0.44	1.19	48	0.25	8.40	263	0.8		
ZZ55508		0.005	0.81	1.48	37	0.16	8.42	656	1.4		
ZZ55509		<0.005	0.76	4.47	29	0.08	8.21	850	1.3		
ZZ55510		<0.005	0.76	1.10	70	0.13	19.20	185	2.6		
ZZ55511		0.014	0.30	1.27	75	0.21	12.80	192	2.2		
ZZ55512		<0.005	0.40	1.63	55	0.13	11.35	242	1.5		
ZZ55513		0.030	0.47	1.49	86	0.41	6.70	593	1.3		
ZZ55514		0.012	2.01	2.79	54	0.87	9.43	1400	1.5		
ZZ55515		0.014	2.33	3.98	36	0.19	8.38	950	0.9		
ZZ55516		0.024	0.92	1.65	73	0.21	5.96	370	1.8		
ZZ55517		0.011	0.37	0.87	58	0.22	5.04	290	1.0		
ZZ55518		<0.005	0.63	1.78	30	0.17	6.74	273	1.5		
ZZ55519		0.021	0.45	1.35	61	0.37	10.35	404	1.3		
ZZ55520		0.012	0.74	1.86	82	0.32	14.95	636	1.8		
ZZ55521		0.028	0.66	1.01	86	0.37	9.97	591	2.0		
ZZ55522		0.018	0.66	1.86	77	0.23	10.40	389	2.5		
ZZ55523		0.009	1.10	3.37	74	0.32	13.00	699	1.3		
ZZ55524		0.014	1.20	1.43	85	0.29	18.05	636	2.7		
ZZ55525		0.007	0.86	2.13	47	0.33	12.85	487	1.8		
ZZ55526		<0.005	0.56	1.94	24	0.16	7.12	366	0.9		
ZZ55527		0.010	0.38	1.80	43	0.31	10.00	494	0.9		
ZZ55528		0.008	0.60	2.70	55	0.32	15.55	316	1.6		
ZZ55529		0.019	0.56	1.44	63	0.28	12.10	319	1.8		
ZZ55530		0.012	5.02	3.16	25	0.18	7.09	1320	0.8		
ZZ55531		0.019	0.75	1.44	84	0.26	5.83	375	1.3		
ZZ55532		<0.005	0.39	1.14	122	0.13	22.2	205	2.0		
ZZ55533		0.009	0.30	2.31	69	0.26	13.55	232	1.0		
ZZ55534		0.006	0.53	2.16	39	0.21	9.64	309	1.1		
ZZ55535		0.011	0.14	1.07	54	0.16	13.30	151	1.7		
ZZ55536		0.006	0.32	1.00	107	0.19	9.32	190	1.2		
ZZ55537		<0.005	5.77	5.07	21	0.36	6.03	>10000	1.9	1.525	2.22
ZZ55538		<0.005	0.66	1.13	104	0.22	16.35	247	2.0		
ZZ55539		0.031	0.38	1.94	60	0.34	7.31	201	1.8		
ZZ55540		0.007	0.18	1.27	91	0.14	11.50	150	0.9		

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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55541		0.14	0.001	0.08	1.57	58.5	<0.2	<10	420	0.66	0.22	0.38	0.90	18.65	9.7	26
ZZ55542		0.19	0.001	0.07	1.60	45.2	<0.2	<10	220	0.70	0.27	0.62	1.43	23.7	10.3	27
ZZ55543		0.17	0.003	0.31	1.31	36.0	<0.2	<10	310	0.67	0.21	2.81	0.80	22.4	11.8	23
ZZ55544		0.17	0.003	0.29	1.54	18.1	<0.2	<10	470	0.70	0.23	1.28	0.41	23.4	12.8	26
ZZ55545		0.16	0.001	0.06	1.04	14.8	<0.2	<10	160	0.20	0.21	0.05	0.23	22.3	4.4	16
ZZ55546		0.17	0.001	0.30	0.98	73	<0.2	<10	110	0.51	0.12	13.95	1.23	12.50	6.9	16
ZZ55547		0.16	0.001	0.21	2.11	40.1	<0.2	<10	330	0.82	0.28	0.40	1.60	25.1	10.3	29
ZZ55548		0.19	<0.001	0.16	2.14	73.2	<0.2	<10	270	0.85	0.19	0.23	0.62	16.65	12.1	33
ZZ55549		0.19	0.003	0.24	1.40	69.1	<0.2	<10	260	0.56	0.17	0.25	0.53	15.45	7.1	26
ZZ55550		0.20	0.003	0.09	2.06	44.9	<0.2	<10	190	1.04	0.26	0.11	0.79	32.5	12.4	32
ZZ55551		0.25	0.001	0.12	1.81	138.0	<0.2	<10	300	1.29	0.24	0.35	0.73	26.6	10.4	31
ZZ55552		0.08	0.002	0.13	3.31	73.1	<0.2	<10	210	1.51	0.26	0.46	4.53	36.1	17.2	36
ZZ55553		0.13	0.001	0.20	2.22	52.7	<0.2	<10	220	1.04	0.27	0.38	0.92	26.3	9.5	31
ZZ55554		0.13	0.005	0.24	1.70	212	<0.2	<10	110	0.55	0.24	2.79	3.32	23.9	11.3	31
ZZ55555		0.24	0.001	0.24	2.22	63.0	<0.2	<10	160	1.35	0.29	0.34	1.92	35.4	11.6	34
ZZ55556		0.20	0.001	0.14	2.00	36.0	<0.2	<10	240	0.84	0.22	0.21	0.51	20.7	9.5	29
ZZ55557		0.18	0.002	0.96	0.50	73	<0.2	<10	60	0.66	0.06	16.75	3.16	6.80	3.7	9
ZZ55558		0.15	0.003	0.61	2.29	100.5	<0.2	<10	140	1.48	0.26	1.54	5.20	36.2	10.5	36
ZZ55559		0.14	0.002	0.53	1.99	70.0	<0.2	<10	150	0.96	0.24	0.83	0.92	26.2	8.4	29
ZZ55560		0.15	0.002	0.37	0.32	30.4	<0.2	<10	370	0.18	0.15	0.35	0.17	2.45	4.1	14
ZZ55561		0.18	0.004	0.89	0.35	67.9	<0.2	10	920	0.67	0.19	0.79	0.41	2.93	5.6	17
ZZ55562		0.13	0.003	1.09	0.41	37.6	<0.2	<10	880	0.52	0.15	0.83	0.85	4.58	6.1	16
ZZ55563		0.28	0.005	3.07	0.47	78.4	<0.2	<10	1650	0.81	0.19	0.45	3.14	9.53	6.7	58
ZZ55564		0.09	0.005	1.18	0.56	42.4	<0.2	10	1120	0.64	0.19	0.90	0.69	6.28	6.1	22
ZZ55565		0.15	0.007	2.84	1.02	157.0	<0.2	<10	830	0.88	0.20	1.74	2.09	14.45	7.9	36
ZZ57252		0.13	0.008	1.58	0.92	135.5	<0.2	10	1030	0.84	0.19	1.23	1.64	9.46	5.2	32
ZZ57253		0.24	0.004	0.28	0.88	337	<0.2	<10	180	0.28	0.28	0.08	0.67	15.75	6.7	22
ZZ57254		0.19	0.002	0.28	2.11	77.0	<0.2	<10	200	1.09	0.29	0.65	1.18	34.2	11.7	33
ZZ57255		0.16	0.001	0.44	2.36	157.0	<0.2	<10	210	1.19	0.28	1.21	1.40	30.9	11.6	39
ZZ57256		0.15	0.005	0.34	2.19	162.0	<0.2	<10	220	1.01	0.28	0.40	1.66	32.2	9.5	33
ZZ57257		0.15	0.003	0.92	1.41	183.5	<0.2	<10	190	1.33	0.22	4.57	2.33	17.85	6.5	25
ZZ57258		0.14	0.004	0.45	1.51	113.5	<0.2	<10	280	1.29	0.27	1.87	2.13	28.7	10.1	29
ZZ57259		0.15	0.002	0.33	1.73	143.5	<0.2	<10	210	1.08	0.32	0.53	2.06	23.5	9.7	31
ZZ57260		0.21	0.002	0.22	1.92	123.0	<0.2	<10	140	1.09	0.26	0.33	1.47	26.7	8.8	30
ZZ57261		0.10	0.002	0.43	1.13	60.4	<0.2	<10	520	0.98	0.20	3.65	1.26	18.80	8.9	20
ZZ57262		0.21	0.003	0.69	1.46	102.0	<0.2	<10	130	1.42	0.19	6.93	1.49	25.4	7.7	26
ZZ57263		0.17	0.001	0.04	1.78	44.2	<0.2	<10	280	0.63	0.20	0.09	1.08	12.30	8.8	27
ZZ57264		0.16	0.002	0.27	2.11	58.9	<0.2	<10	660	1.29	0.27	0.41	1.87	22.0	10.4	33
ZZ57265		0.17	0.002	0.11	1.55	64.4	<0.2	<10	340	0.69	0.27	0.82	1.77	18.05	9.0	24
ZZ57266		0.18	0.001	0.21	1.06	32.2	<0.2	<10	420	0.68	0.22	1.01	0.65	14.60	10.9	19





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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55541		0.61	17.8	3.33	5.00	0.09	0.06	0.08	0.039	0.06	9.1	18.9	0.40	332	1.93	<0.01
ZZ55542		0.92	10.9	3.45	5.57	0.09	0.05	0.06	0.038	0.05	11.4	15.4	0.51	875	1.36	0.01
ZZ55543		0.67	38.3	2.65	4.01	0.10	0.06	0.25	0.030	0.05	11.6	17.6	1.34	423	1.35	0.01
ZZ55544		0.68	36.7	2.95	4.83	0.10	0.09	0.21	0.031	0.05	11.6	19.8	0.54	636	1.88	0.01
ZZ55545		0.62	10.9	2.36	6.11	0.08	0.02	0.02	0.018	0.03	11.8	13.2	0.19	144	1.54	<0.01
ZZ55546		0.69	14.6	1.82	2.54	0.07	0.04	0.12	0.023	0.04	7.8	7.5	1.01	486	4.23	0.02
ZZ55547		1.48	8.5	3.11	7.03	0.09	0.05	0.05	0.040	0.04	12.8	16.7	0.30	638	1.63	0.01
ZZ55548		1.07	17.7	3.18	5.52	0.08	0.08	0.14	0.035	0.03	8.1	21.4	0.38	178	3.10	0.01
ZZ55549		0.88	11.5	2.35	4.61	0.07	0.04	0.14	0.026	0.04	7.9	14.7	0.31	172	3.02	<0.01
ZZ55550		1.33	15.3	3.40	5.34	0.11	0.09	0.09	0.036	0.05	14.6	21.1	0.37	253	2.35	0.01
ZZ55551		0.97	17.2	3.53	5.24	0.11	0.07	0.17	0.038	0.04	12.0	15.2	0.35	359	3.92	0.01
ZZ55552		1.65	12.2	4.07	5.35	0.13	0.10	0.15	0.063	0.05	12.9	24.5	0.22	344	3.36	0.01
ZZ55553		1.53	10.9	3.27	6.38	0.10	0.05	0.08	0.040	0.04	11.5	16.5	0.36	501	1.87	0.01
ZZ55554		1.10	11.5	2.55	5.02	0.09	0.04	0.59	0.031	0.04	15.7	11.1	1.51	647	0.85	0.01
ZZ55555		1.33	9.6	3.63	6.57	0.11	0.08	0.39	0.044	0.05	15.8	16.8	0.40	595	1.49	0.01
ZZ55556		1.21	8.8	2.54	6.65	0.08	0.05	0.08	0.029	0.03	10.4	19.0	0.34	242	1.88	0.01
ZZ55557		0.57	6.7	0.78	1.40	0.05	0.04	2.21	0.011	0.03	3.7	4.8	9.30	378	0.96	0.03
ZZ55558		1.12	11.6	3.20	6.83	0.12	0.09	2.94	0.039	0.05	18.5	17.1	1.14	453	1.30	0.01
ZZ55559		1.30	17.4	2.79	6.25	0.08	0.06	0.86	0.033	0.03	13.9	17.7	0.62	287	1.45	0.01
ZZ55560		0.98	39.9	1.54	2.42	<0.05	<0.02	0.03	0.022	0.06	1.5	0.9	0.04	23	4.16	<0.01
ZZ55561		0.94	61.4	2.45	1.14	0.07	0.08	0.19	0.038	0.07	1.9	1.3	0.03	98	3.02	<0.01
ZZ55562		1.09	50.2	2.15	1.26	0.09	0.06	0.30	0.029	0.06	2.9	3.4	0.06	188	4.38	<0.01
ZZ55563		0.67	69.5	3.42	1.54	0.16	0.09	0.28	0.039	0.06	6.4	2.2	0.02	114	14.10	<0.01
ZZ55564		0.70	46.6	2.25	1.94	0.08	0.07	0.29	0.035	0.06	3.5	6.2	0.08	233	4.71	<0.01
ZZ55565		0.86	113.0	2.18	3.11	0.10	0.09	0.80	0.037	0.06	8.3	14.1	0.23	176	5.19	0.01
ZZ57252		1.11	110.5	1.87	2.80	0.13	0.10	0.69	0.035	0.05	5.5	8.9	0.14	62	2.97	<0.01
ZZ57253		1.08	18.4	2.92	5.34	0.07	<0.02	0.24	0.027	0.10	8.4	8.5	0.18	308	3.33	0.01
ZZ57254		1.61	13.4	3.29	6.90	0.11	0.05	0.30	0.038	0.06	16.3	18.5	0.45	641	1.60	0.01
ZZ57255		1.60	12.8	3.46	7.12	0.11	0.06	1.16	0.040	0.05	13.6	17.0	0.82	978	1.83	0.01
ZZ57256		1.26	9.7	3.15	7.01	0.09	0.06	3.08	0.035	0.04	14.7	16.0	0.45	884	1.34	0.01
ZZ57257		0.89	19.4	2.46	3.56	<0.05	0.04	1.54	0.027	0.05	9.9	10.8	1.83	602	1.64	0.02
ZZ57258		0.82	18.1	3.14	4.19	<0.05	0.06	0.98	0.033	0.06	13.8	14.8	1.09	574	1.65	0.01
ZZ57259		1.10	14.0	3.40	5.34	<0.05	0.04	2.24	0.037	0.06	10.8	16.5	0.44	581	1.46	0.01
ZZ57260		1.08	10.0	2.98	5.35	<0.05	0.06	1.02	0.032	0.04	11.1	16.4	0.43	360	1.27	0.01
ZZ57261		0.63	29.1	2.42	2.91	0.05	0.03	0.56	0.026	0.05	10.0	13.9	1.54	647	1.14	0.05
ZZ57262		0.81	10.8	2.56	3.00	<0.05	0.07	1.46	0.029	0.04	13.3	11.2	3.83	362	1.46	0.02
ZZ57263		1.04	18.2	3.33	4.65	<0.05	0.04	0.12	0.033	0.04	5.2	23.7	0.36	203	2.19	0.01
ZZ57264		0.97	16.4	4.10	4.62	<0.05	0.05	0.70	0.042	0.04	12.4	18.3	0.37	589	2.12	0.01
ZZ57265		0.70	13.7	3.33	4.42	<0.05	0.03	0.25	0.029	0.06	6.7	15.3	0.32	884	2.48	0.01
ZZ57266		0.51	20.6	2.88	2.98	<0.05	0.05	0.25	0.027	0.06	6.1	15.3	0.34	665	1.50	0.01

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**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ55541		0.87	26.0	160	21.0	8.2	<0.001	<0.01	0.61	4.1	0.7	0.6	12.0	<0.01	0.04	3.1
ZZ55542		1.29	20.2	160	23.9	10.0	<0.001	0.01	0.51	3.5	0.4	0.7	11.9	<0.01	0.04	3.4
ZZ55543		0.72	31.2	610	20.4	7.1	<0.001	0.03	0.84	4.0	1.0	0.4	36.1	0.01	0.04	1.5
ZZ55544		0.77	30.0	920	14.5	7.3	0.001	0.05	0.63	4.9	1.5	0.4	35.1	0.01	0.05	2.2
ZZ55545		1.12	10.0	150	11.1	8.2	<0.001	<0.01	0.35	2.3	0.3	0.7	6.3	<0.01	0.04	2.6
ZZ55546		0.43	30.0	850	12.7	6.4	0.001	0.04	1.33	2.2	1.2	0.4	80.9	0.01	0.05	0.4
ZZ55547		1.50	26.4	200	24.9	10.8	<0.001	<0.01	0.50	4.3	0.5	0.8	10.7	<0.01	0.04	3.5
ZZ55548		0.72	42.9	140	24.3	9.5	<0.001	<0.01	0.83	5.0	1.0	0.6	11.8	<0.01	0.05	3.3
ZZ55549		0.63	25.9	150	26.9	7.9	<0.001	0.01	1.07	3.4	0.7	0.6	12.1	<0.01	0.05	2.3
ZZ55550		1.37	37.8	280	21.2	14.1	<0.001	0.01	0.86	5.0	0.9	0.6	11.3	0.01	0.04	5.2
ZZ55551		0.64	33.5	160	78.6	9.9	<0.001	<0.01	0.94	6.1	1.2	0.6	12.7	<0.01	0.05	4.6
ZZ55552		1.49	39.7	540	49.1	15.3	0.001	0.03	1.05	4.5	1.4	0.7	13.2	0.01	0.06	3.9
ZZ55553		1.40	26.9	280	28.3	14.1	<0.001	0.01	0.68	3.8	0.6	0.7	11.4	<0.01	0.05	3.0
ZZ55554		0.85	18.8	740	42.7	9.8	<0.001	0.05	0.55	1.9	0.8	0.6	22.5	0.01	0.03	0.6
ZZ55555		1.52	25.1	220	137.0	13.8	<0.001	0.01	1.02	5.0	0.7	0.8	11.3	<0.01	0.05	4.8
ZZ55556		1.13	19.2	110	53.8	8.1	<0.001	<0.01	0.91	3.6	0.5	0.8	11.1	<0.01	0.04	3.2
ZZ55557		0.31	12.3	520	192.5	5.6	<0.001	0.04	2.82	1.4	0.7	0.2	112.0	<0.01	0.02	0.5
ZZ55558		1.42	28.0	230	196.0	11.9	<0.001	0.02	1.66	6.1	0.9	0.8	19.7	<0.01	0.04	4.6
ZZ55559		1.25	26.9	300	108.5	12.8	<0.001	0.01	1.09	4.3	0.6	0.7	14.3	<0.01	0.03	2.8
ZZ55560		0.11	46.5	220	6.1	7.0	0.001	<0.01	0.90	2.2	2.5	0.6	36.5	<0.01	0.08	0.5
ZZ55561		0.09	67.1	510	9.7	8.4	0.006	0.04	0.95	7.7	4.0	0.4	81.7	0.01	0.09	1.0
ZZ55562		0.11	63.3	1080	9.4	6.4	0.013	0.05	1.12	4.6	6.4	0.4	105.0	0.01	0.08	0.9
ZZ55563		0.10	117.0	1460	13.1	5.4	0.002	0.04	2.40	7.2	8.9	0.5	116.5	0.01	0.11	1.2
ZZ55564		0.18	52.2	860	11.0	6.6	0.012	0.04	0.91	5.9	5.6	0.5	98.7	0.01	0.08	1.2
ZZ55565		0.53	97.5	1020	23.3	7.6	0.005	0.07	1.73	6.3	5.8	0.5	138.0	0.01	0.07	1.4
ZZ57252		0.30	70.8	850	18.2	7.7	0.021	0.12	1.32	8.5	20.1	0.5	121.0	0.01	0.09	1.1
ZZ57253		1.07	20.7	410	39.1	18.1	<0.001	0.04	1.46	2.0	1.2	0.7	30.4	<0.01	0.06	1.7
ZZ57254		1.45	30.5	390	47.9	14.0	<0.001	0.02	0.81	5.3	0.9	0.8	20.0	<0.01	0.04	3.0
ZZ57255		1.28	33.0	380	115.5	12.6	<0.001	0.02	1.40	5.2	1.2	0.8	14.1	<0.01	0.05	3.1
ZZ57256		1.57	23.6	230	66.3	11.6	<0.001	0.01	0.99	5.2	0.7	0.8	11.5	<0.01	0.04	4.1
ZZ57257		0.52	31.5	900	112.0	7.7	<0.001	0.07	1.30	2.9	1.4	0.5	31.3	<0.01	0.02	0.9
ZZ57258		0.83	36.4	440	70.9	9.7	0.001	0.03	1.30	4.3	1.6	0.6	26.3	<0.01	0.04	2.6
ZZ57259		0.84	27.1	370	100.5	13.4	<0.001	0.02	1.03	4.3	1.0	0.7	13.4	<0.01	0.02	2.8
ZZ57260		1.01	23.5	170	61.5	10.0	<0.001	0.01	0.78	3.7	0.5	0.7	11.0	<0.01	0.02	4.2
ZZ57261		0.55	28.6	900	24.8	7.6	0.001	0.09	0.90	2.6	1.0	0.4	39.3	<0.01	0.02	0.8
ZZ57262		0.52	32.1	580	142.0	9.8	0.001	0.04	1.64	4.6	0.9	0.5	49.3	<0.01	0.02	2.4
ZZ57263		0.52	26.7	170	26.9	9.4	<0.001	0.01	0.70	3.2	0.8	0.6	7.9	<0.01	0.04	2.3
ZZ57264		0.62	33.2	360	49.5	10.4	0.001	0.02	0.77	4.9	0.8	0.6	11.3	<0.01	0.04	3.0
ZZ57265		0.59	22.9	330	30.9	8.5	<0.001	0.02	0.91	3.3	0.7	0.6	15.7	<0.01	0.04	2.1
ZZ57266		0.52	26.5	750	18.2	7.0	0.002	0.05	0.65	3.2	0.8	0.4	23.6	<0.01	0.04	2.0

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001
ZZ55541		0.008	0.22	0.82	78	0.13	5.23	137	2.1		
ZZ55542		0.022	0.30	0.88	69	0.19	4.08	149	1.6		
ZZ55543		0.015	0.15	0.90	47	0.22	10.90	109	1.5		
ZZ55544		0.013	0.10	2.06	48	0.17	10.35	81	2.3		
ZZ55545		0.018	0.12	0.31	63	0.13	1.93	51	0.9		
ZZ55546		0.007	0.39	2.06	57	0.16	14.25	137	0.8		
ZZ55547		0.023	0.39	1.35	79	0.24	6.40	227	2.0		
ZZ55548		0.005	0.93	0.66	99	0.13	6.43	157	3.3		
ZZ55549		0.006	1.50	0.65	115	0.13	4.88	123	1.6		
ZZ55550		0.018	0.59	1.17	74	0.27	8.56	109	2.8		
ZZ55551		0.005	0.64	1.32	92	0.23	11.55	136	2.5		
ZZ55552		0.012	0.42	1.62	80	0.27	12.70	310	3.0		
ZZ55553		0.020	0.35	0.93	74	0.29	5.17	176	1.5		
ZZ55554		0.022	1.27	1.53	74	0.25	19.75	587	0.6		
ZZ55555		0.020	0.43	2.02	77	0.33	7.95	412	2.9		
ZZ55556		0.014	0.71	0.72	98	0.20	2.85	208	2.3		
ZZ55557		0.005	0.49	1.49	23	0.25	4.99	267	1.2		
ZZ55558		0.023	0.64	1.59	77	0.36	11.30	1120	3.0		
ZZ55559		0.018	0.49	1.02	70	0.33	6.81	348	1.6		
ZZ55560		<0.005	0.09	0.68	55	0.07	4.70	150	<0.5		
ZZ55561		<0.005	0.12	2.25	45	0.06	22.2	184	2.8		
ZZ55562		<0.005	0.14	3.20	41	0.07	20.6	235	1.8		
ZZ55563		<0.005	0.14	4.30	101	0.09	55.9	336	2.3		
ZZ55564		<0.005	0.09	2.79	46	0.09	19.35	185	2.1		
ZZ55565		0.008	0.27	7.01	67	0.23	27.7	250	2.7		
ZZ57252		<0.005	0.22	6.17	67	0.13	30.3	210	2.9		
ZZ57253		0.019	0.38	0.56	77	0.27	2.86	182	<0.5		
ZZ57254		0.025	0.32	1.69	67	0.29	10.05	222	1.2		
ZZ57255		0.016	0.57	1.42	83	0.30	11.45	266	1.5		
ZZ57256		0.028	0.58	2.11	72	0.31	7.07	268	1.8		
ZZ57257		0.011	0.39	1.84	54	0.21	15.00	274	1.1		
ZZ57258		0.018	0.76	1.82	63	0.35	12.60	291	1.4		
ZZ57259		0.016	1.21	2.20	79	0.21	6.75	599	1.1		
ZZ57260		0.015	0.97	1.31	71	0.25	4.61	231	2.1		
ZZ57261		0.012	0.23	2.68	43	0.14	12.65	144	1.0		
ZZ57262		0.007	0.52	2.00	58	0.44	13.10	235	1.5		
ZZ57263		0.006	0.28	0.47	74	0.12	2.84	123	1.6		
ZZ57264		0.005	0.32	1.29	83	0.20	12.75	267	1.3		
ZZ57265		0.007	0.33	0.98	111	0.19	4.94	209	0.9		
ZZ57266		0.006	0.13	1.45	43	0.08	8.49	139	1.2		



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57267		0.22	0.003	0.20	1.03	41.0	<0.2	<10	390	0.72	0.22	0.83	0.74	16.75	9.9	19
ZZ57268		0.30	0.003	0.11	1.47	42.3	<0.2	<10	230	1.20	0.28	0.13	0.48	24.0	14.5	27
ZZ57269		0.23	0.002	0.04	1.33	32.1	<0.2	<10	130	0.94	0.25	0.08	0.28	20.9	11.0	23
ZZ57270		0.19	0.002	0.20	1.10	33.9	<0.2	<10	420	0.75	0.23	0.82	0.70	17.15	10.8	21
ZZ57271		0.19	0.002	0.10	1.61	39.4	<0.2	<10	310	0.92	0.29	0.31	0.57	22.4	11.6	28
ZZ57272		0.21	0.004	0.39	1.07	53.4	<0.2	<10	460	0.86	0.21	4.06	1.54	19.70	7.8	20
ZZ57273		0.14	0.002	0.27	1.30	116.0	<0.2	<10	430	0.87	0.24	1.18	1.35	18.50	8.3	24
ZZ57274		0.16	0.004	1.88	0.80	368	<0.2	<10	110	1.06	0.16	7.87	2.28	14.90	6.7	16
ZZ57275		0.26	0.003	0.38	1.51	137.0	<0.2	<10	370	1.26	0.30	1.81	1.45	23.5	10.0	25
ZZ57276		0.18	0.002	0.12	1.66	62.3	<0.2	<10	140	0.85	0.28	0.15	1.04	23.8	7.4	24
ZZ57277		0.18	0.004	0.98	1.82	200	<0.2	<10	160	3.16	0.25	2.78	2.01	38.0	12.3	34
ZZ57278		0.19	0.005	0.36	1.75	86.7	<0.2	<10	380	1.26	0.28	2.53	1.61	25.9	9.4	33
ZZ57279		0.20	0.003	0.83	1.32	72.4	<0.2	<10	190	1.58	0.24	5.90	1.33	29.6	9.7	26
ZZ57280		0.15	0.001	0.27	1.82	91.7	<0.2	<10	270	0.78	0.34	0.39	2.72	27.8	8.2	28
ZZ57281		0.12	0.001	0.16	2.52	277	<0.2	<10	220	2.66	0.39	0.74	1.68	44.3	11.2	37
ZZ57282		0.18	0.003	0.32	0.10	1410	<0.2	<10	20	0.74	0.03	>25.0	1.30	4.22	3.9	4
ZZ57283		0.15	0.004	0.82	2.15	285	<0.2	<10	160	1.91	0.30	3.11	1.32	31.4	10.4	39
ZZ57284		0.20	0.009	10.20	2.89	1730	<0.2	<10	310	2.77	0.32	0.56	4.77	38.6	17.2	56
ZZ57285		0.26	0.004	1.40	0.61	37.8	<0.2	10	1050	0.68	0.22	0.61	0.76	6.56	5.1	23
ZZ57286		0.24	0.005	1.28	0.54	79.2	<0.2	<10	1130	0.66	0.23	0.73	0.51	5.86	4.3	23
ZZ57287		0.15	0.004	0.21	0.64	22.6	<0.2	<10	280	0.92	0.25	0.02	0.22	4.72	5.9	20
ZZ57288		0.27	0.003	0.64	0.34	47.6	<0.2	<10	610	0.35	0.23	0.26	0.20	1.98	4.5	17
ZZ57289		0.19	0.006	1.15	0.42	28.4	<0.2	10	1410	0.79	0.26	0.51	0.66	5.63	7.7	21
ZZ57290		0.14	0.004	0.15	0.31	40.3	<0.2	<10	320	0.51	0.27	0.08	0.12	2.23	6.4	21
ZZ57291		0.25	0.003	0.75	0.49	46.2	<0.2	10	1520	0.70	0.23	0.65	0.52	4.35	5.3	25
ZZ57292		0.20	0.001	0.64	0.61	433	<0.2	<10	260	0.23	0.26	0.02	0.60	8.86	4.7	16
ZZ57293		0.16	0.004	1.24	0.50	134.5	<0.2	10	910	0.79	0.17	0.95	0.81	4.17	5.1	27
ZZ57294		0.24	0.005	1.12	0.63	63.2	<0.2	10	1070	0.78	0.20	0.54	1.17	8.32	7.7	28
ZZ57295		0.12	0.003	0.71	2.16	230	<0.2	<10	150	1.63	0.26	1.14	2.09	26.5	9.0	34
ZZ57296		0.13	0.052	1.03	2.38	595	<0.2	<10	200	1.95	0.27	2.35	2.61	27.5	14.6	38
ZZ57297		0.15	0.030	3.50	1.52	1680	<0.2	10	270	2.57	0.28	5.28	7.98	23.3	12.6	27
ZZ57298		0.12	0.002	0.13	1.92	50.7	<0.2	<10	160	1.93	0.29	2.60	1.00	32.4	11.4	30
ZZ57299		0.14	0.002	0.33	2.14	74.3	<0.2	<10	200	1.00	0.27	0.36	1.43	29.2	8.3	30
ZZ57300		0.18	0.001	0.09	1.57	50.2	<0.2	<10	340	0.44	0.19	0.15	0.37	13.90	7.5	27



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**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ57267		0.62	28.6	3.41	3.15	<0.05	0.05	0.29	0.031	0.06	7.5	17.4	0.33	227	2.01	0.01
ZZ57268		0.66	40.7	3.73	3.89	0.05	0.03	0.22	0.040	0.06	10.6	19.1	0.33	464	3.07	0.01
ZZ57269		0.75	32.2	3.41	3.87	<0.05	0.03	0.20	0.035	0.05	9.5	21.3	0.30	309	2.72	0.01
ZZ57270		0.59	24.8	2.98	3.22	<0.05	0.04	0.41	0.028	0.07	7.6	17.2	0.34	563	1.61	0.01
ZZ57271		0.76	21.0	3.51	4.30	<0.05	0.03	0.09	0.036	0.07	9.0	19.9	0.33	401	2.16	0.01
ZZ57272		0.69	34.1	2.54	2.92	<0.05	0.04	0.46	0.027	0.06	12.4	13.5	1.83	483	1.67	0.02
ZZ57273		0.67	20.4	2.81	3.79	<0.05	0.03	0.32	0.029	0.05	9.3	14.1	0.43	446	1.45	0.01
ZZ57274		0.57	16.1	2.03	2.11	<0.05	0.04	3.47	0.020	0.05	7.1	11.1	4.51	346	1.71	0.02
ZZ57275		0.94	21.2	2.76	4.38	<0.05	0.03	0.96	0.031	0.05	10.8	13.0	0.86	664	1.21	0.01
ZZ57276		1.04	8.5	3.42	5.14	<0.05	0.03	0.53	0.030	0.04	10.2	16.3	0.23	237	1.81	0.01
ZZ57277		0.88	18.8	3.31	3.92	0.05	0.08	2.06	0.038	0.05	19.2	15.5	1.46	880	2.34	0.01
ZZ57278		1.02	21.1	2.86	4.95	<0.05	0.05	0.61	0.033	0.05	12.7	14.6	1.28	509	1.73	0.02
ZZ57279		0.99	16.7	2.50	3.47	<0.05	0.04	0.93	0.028	0.06	13.6	12.5	3.12	522	1.45	0.02
ZZ57280		0.92	9.0	3.16	6.49	<0.05	0.02	0.43	0.029	0.04	12.8	13.5	0.32	621	1.40	0.01
ZZ57281		1.60	10.0	3.96	6.63	0.05	0.05	0.44	0.040	0.08	20.1	14.4	0.44	1940	1.57	0.01
ZZ57282		0.34	4.0	1.21	0.65	<0.05	0.03	0.89	<0.005	0.01	2.1	0.4	0.16	460	7.08	0.02
ZZ57283		1.24	17.0	3.31	5.11	0.06	0.08	1.62	0.036	0.06	20.1	15.7	1.70	597	2.45	0.02
ZZ57284		2.07	26.7	6.45	5.82	0.06	0.07	11.20	0.052	0.06	15.2	13.7	0.23	1160	20.8	0.01
ZZ57285		0.93	50.7	1.86	1.89	<0.05	0.04	0.38	0.034	0.06	3.4	5.9	0.10	90	3.97	0.01
ZZ57286		0.81	45.7	2.23	1.79	<0.05	0.03	0.26	0.036	0.05	3.4	4.8	0.04	45	4.91	0.01
ZZ57287		0.72	71.4	2.41	1.70	<0.05	0.05	0.07	0.047	0.07	2.7	1.3	0.03	32	7.48	<0.01
ZZ57288		0.69	35.6	2.07	1.32	<0.05	<0.02	0.14	0.035	0.07	1.1	0.8	0.02	44	3.32	0.01
ZZ57289		1.20	64.4	3.21	1.18	<0.05	0.06	0.38	0.037	0.10	2.8	0.8	0.03	131	3.61	0.01
ZZ57290		0.86	53.2	2.72	1.16	<0.05	0.04	0.05	0.046	0.08	1.2	0.7	0.02	45	3.08	0.01
ZZ57291		0.74	52.5	2.56	1.55	<0.05	0.06	0.17	0.035	0.08	2.8	1.8	0.02	76	6.36	0.02
ZZ57292		1.47	15.1	3.10	4.21	<0.05	<0.02	0.45	0.020	0.06	4.9	2.2	0.03	59	17.80	0.01
ZZ57293		0.89	70.9	2.56	1.88	0.10	0.08	0.19	0.034	0.06	2.5	2.0	0.05	120	6.95	0.01
ZZ57294		1.12	71.0	2.88	2.17	0.12	0.08	0.32	0.037	0.06	4.5	4.4	0.10	141	5.58	0.01
ZZ57295		1.64	13.9	3.38	6.53	0.12	0.04	1.85	0.044	0.04	14.3	11.8	0.41	292	5.10	0.01
ZZ57296		1.81	16.8	4.08	6.98	0.16	0.09	5.75	0.047	0.06	17.2	14.5	0.74	662	5.32	0.01
ZZ57297		0.95	30.6	4.18	5.25	0.12	0.15	16.90	0.044	0.13	12.0	9.6	0.63	2340	5.47	0.02
ZZ57298		1.03	17.3	3.27	6.45	0.13	0.08	0.10	0.034	0.05	16.8	11.4	0.42	1140	0.97	0.02
ZZ57299		1.19	7.5	2.85	6.75	0.11	0.05	0.63	0.033	0.03	14.6	12.7	0.33	310	1.36	0.01
ZZ57300		1.74	16.3	2.84	5.71	0.08	0.03	0.12	0.027	0.04	7.4	17.1	0.35	182	2.77	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57267		0.65	31.0	740	18.8	7.3	0.004	0.04	0.77	3.7	1.4	0.4	26.4	<0.01	0.03	2.6
ZZ57268		0.43	44.2	390	22.5	9.1	<0.001	0.02	1.04	5.8	1.7	0.5	11.6	<0.01	0.04	4.7
ZZ57269		0.60	33.2	370	20.1	9.3	0.001	0.01	0.96	3.4	1.0	0.5	10.8	<0.01	0.04	3.6
ZZ57270		0.60	32.3	720	19.0	7.5	0.003	0.04	0.64	3.6	1.1	0.4	23.4	<0.01	0.03	2.6
ZZ57271		0.65	33.8	340	21.2	11.5	<0.001	0.01	0.71	3.8	0.7	0.5	12.0	<0.01	0.04	3.3
ZZ57272		0.54	31.2	740	23.0	8.2	<0.001	0.05	1.22	4.1	1.5	0.4	38.2	<0.01	0.03	1.4
ZZ57273		0.67	25.7	640	28.0	8.7	<0.001	0.05	0.87	2.9	1.2	0.5	20.7	<0.01	0.04	1.2
ZZ57274		0.34	25.4	760	378	6.2	0.001	0.04	2.25	2.7	0.9	0.4	58.2	<0.01	0.02	1.3
ZZ57275		0.78	23.8	570	45.0	9.2	<0.001	0.04	0.76	2.5	0.9	0.5	21.5	<0.01	0.02	1.2
ZZ57276		1.13	19.5	210	56.8	11.5	<0.001	0.01	0.75	2.6	0.5	0.7	7.9	<0.01	0.03	3.3
ZZ57277		0.47	39.2	860	128.0	9.7	0.001	0.05	1.93	5.6	1.7	0.6	28.5	<0.01	0.06	2.2
ZZ57278		0.87	43.5	440	46.6	7.8	0.001	0.03	0.99	4.4	2.0	0.6	36.2	<0.01	0.04	1.8
ZZ57279		0.67	28.9	830	60.0	10.0	0.001	0.05	1.29	3.1	1.0	0.5	47.2	<0.01	0.04	1.5
ZZ57280		1.44	19.4	240	105.0	7.9	<0.001	0.02	0.96	3.2	0.6	0.8	11.1	<0.01	0.03	3.0
ZZ57281		1.31	37.8	330	66.7	19.7	<0.001	0.02	1.63	7.4	1.0	0.9	10.4	<0.01	0.02	5.3
ZZ57282		<0.05	57.0	400	41.8	1.5	0.001	0.05	7.74	1.5	0.9	<0.2	16.0	<0.01	<0.01	0.3
ZZ57283		0.64	41.0	1020	77.2	9.3	0.001	0.06	1.81	5.7	1.7	0.7	27.9	<0.01	0.03	1.8
ZZ57284		0.60	127.5	1690	399	9.6	0.001	0.06	5.37	6.5	3.5	0.8	92.1	<0.01	0.09	2.9
ZZ57285		0.13	65.0	820	14.0	7.0	0.008	0.05	1.04	5.5	5.0	0.5	81.0	<0.01	0.07	1.3
ZZ57286		0.12	59.7	710	16.4	6.3	0.003	0.03	1.43	4.7	5.6	0.5	108.0	<0.01	0.09	1.1
ZZ57287		0.05	88.7	170	15.1	7.1	0.003	0.01	1.14	5.3	3.0	0.6	27.9	<0.01	0.07	1.5
ZZ57288		0.05	51.1	250	10.8	6.8	0.003	0.02	0.99	3.2	1.4	0.4	25.2	<0.01	0.10	0.7
ZZ57289		0.17	101.0	1900	13.2	7.5	0.006	0.03	0.98	9.0	2.3	0.4	141.5	<0.01	0.09	2.1
ZZ57290		0.05	80.6	250	14.8	7.7	0.002	0.01	1.14	5.1	2.5	0.5	31.7	<0.01	0.09	1.8
ZZ57291		0.06	95.2	970	12.6	6.4	0.003	0.03	1.18	6.6	3.4	0.5	105.0	<0.01	0.08	1.6
ZZ57292		0.39	60.1	630	42.9	10.4	0.001	0.08	2.25	1.8	2.9	0.7	90.3	<0.01	0.05	1.1
ZZ57293		0.11	90.9	920	12.5	7.4	0.011	0.05	1.31	6.1	7.2	0.5	124.5	0.01	0.09	0.8
ZZ57294		0.21	84.5	970	14.1	9.5	0.007	0.04	1.33	7.7	8.1	0.5	98.0	0.01	0.09	1.9
ZZ57295		1.31	38.4	650	65.4	9.5	<0.001	0.05	1.55	4.9	1.4	0.8	16.9	0.01	0.05	1.5
ZZ57296		1.10	67.2	880	170.0	15.3	<0.001	0.05	3.60	9.0	2.2	0.8	17.8	0.01	0.05	2.6
ZZ57297		0.51	81.8	1060	732	13.1	<0.001	0.08	12.30	6.9	2.2	0.8	37.0	0.01	0.05	2.0
ZZ57298		1.32	28.7	250	48.5	10.4	<0.001	0.02	0.57	7.0	1.0	0.6	9.7	0.01	0.05	3.9
ZZ57299		1.73	21.6	290	73.5	11.0	<0.001	0.02	0.65	4.8	0.7	0.8	9.6	0.01	0.04	3.6
ZZ57300		0.97	29.4	180	19.5	10.8	<0.001	0.02	0.71	3.0	0.9	0.6	11.8	<0.01	0.05	2.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157368**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46	Pb- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001
ZZ57267		0.007	0.12	1.38	44	0.08	10.90	141	1.6		
ZZ57268		0.005	0.27	1.46	63	0.08	14.30	148	1.4		
ZZ57269		0.007	0.17	0.91	54	0.08	6.95	143	1.1		
ZZ57270		0.007	0.14	1.21	45	0.09	10.60	143	1.3		
ZZ57271		0.007	0.18	1.18	60	0.12	7.00	139	1.2		
ZZ57272		0.010	0.26	1.77	56	0.17	15.55	153	1.2		
ZZ57273		0.012	0.27	2.99	58	0.14	8.27	180	0.9		
ZZ57274		0.007	1.53	1.57	40	0.16	9.11	552	1.0		
ZZ57275		0.020	0.43	2.42	58	0.33	6.84	209	0.7		
ZZ57276		0.016	0.46	0.78	70	0.27	3.70	206	1.1		
ZZ57277		0.007	0.92	3.59	84	0.29	21.6	290	1.8		
ZZ57278		0.015	0.37	2.03	68	0.24	14.55	227	1.2		
ZZ57279		0.018	0.36	2.09	54	0.50	10.50	182	1.1		
ZZ57280		0.025	0.42	0.74	84	0.28	4.67	285	0.9		
ZZ57281		0.031	1.12	1.93	93	0.27	22.6	363	1.8		
ZZ57282		<0.005	2.98	6.71	20	0.14	8.88	312	1.3		
ZZ57283		0.013	0.74	2.05	75	0.37	26.9	281	2.0		
ZZ57284		0.005	2.07	15.65	128	0.35	27.0	1060	1.6		
ZZ57285		<0.005	0.13	3.25	47	0.06	20.2	226	1.7		
ZZ57286		<0.005	0.13	3.82	54	0.08	18.10	202	1.1		
ZZ57287		<0.005	0.09	3.57	38	<0.05	14.50	291	2.2		
ZZ57288		<0.005	0.09	0.70	51	<0.05	5.42	164	<0.5		
ZZ57289		<0.005	0.09	2.18	57	<0.05	27.0	234	4.0		
ZZ57290		<0.005	0.11	1.54	49	<0.05	8.35	228	2.2		
ZZ57291		<0.005	0.06	2.49	55	0.05	23.4	280	2.9		
ZZ57292		0.009	0.48	1.49	79	0.19	4.97	869	<0.5		
ZZ57293		<0.005	0.10	4.27	52	0.10	20.6	240	2.9		
ZZ57294		<0.005	0.15	3.89	55	0.07	26.7	269	3.2		
ZZ57295		0.017	1.13	4.08	75	0.29	14.35	241	1.1		
ZZ57296		0.015	1.44	4.31	89	0.34	24.9	469	2.2		
ZZ57297		0.008	4.16	3.24	68	0.87	26.8	1720	3.6		
ZZ57298		0.026	1.42	0.87	66	0.23	22.3	166	2.1		
ZZ57299		0.024	0.42	1.29	68	0.29	8.68	233	1.4		
ZZ57300		0.012	0.32	0.45	76	0.16	2.67	146	1.5		



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12157368**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12158782**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 14  
 This report is for 190 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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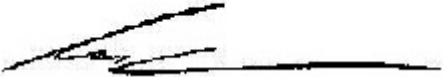
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022456		0.18	0.002	0.08	1.61	118.0	<0.2	<10	190	0.89	0.27	3.05	1.73	29.5	8.7	28
DD022457		0.17	0.007	0.11	0.63	24.2	<0.2	<10	100	0.31	0.10	5.04	1.27	8.30	3.2	9
DD022458		0.21	0.003	0.50	0.97	60.0	<0.2	<10	250	0.70	0.20	0.90	0.57	14.45	4.7	24
DD022459		0.20	0.004	0.41	0.76	42.1	<0.2	<10	350	0.29	0.22	0.73	0.84	10.00	3.6	20
DD022460		0.20	0.005	0.27	1.58	326	<0.2	<10	310	2.60	0.28	2.04	2.12	27.2	10.1	24
DD022461		0.12	0.005	0.34	0.93	97.3	<0.2	<10	170	0.51	0.17	3.48	1.61	13.60	5.2	15
DD022462		0.23	0.009	0.13	0.89	56.0	<0.2	<10	130	0.49	0.16	3.88	1.49	10.90	5.1	12
DD022463		0.22	0.004	0.51	1.55	294	<0.2	<10	200	1.10	0.27	1.57	2.99	29.1	11.4	28
DD022464		0.17	0.007	0.52	1.22	145.5	<0.2	<10	160	1.09	0.24	1.97	1.83	23.7	8.7	22
DD022465		0.18	0.010	0.40	1.36	568	<0.2	<10	230	1.34	0.23	2.38	2.78	14.90	9.9	22
DD022466		0.23	0.003	0.44	1.43	609	<0.2	<10	190	1.30	0.27	1.52	7.06	24.6	12.0	26
DD022467		0.28	0.007	0.45	0.71	577	<0.2	<10	120	1.25	0.14	11.75	4.66	14.25	7.7	14
DD022468		0.20	<0.001	0.08	0.60	52.0	<0.2	<10	100	0.27	0.12	3.84	3.62	7.14	3.8	8
DD022469		0.15	0.008	0.85	0.49	291	<0.2	10	240	0.75	0.18	1.89	3.17	9.51	4.7	9
DD022470		0.28	0.007	2.95	0.45	557	<0.2	<10	220	0.32	0.35	0.04	0.25	13.45	2.0	13
DD022471		0.26	0.006	0.88	0.48	57.3	<0.2	<10	100	0.12	0.14	0.03	0.12	11.20	0.8	10
DD022472		0.28	0.007	1.47	0.78	306	<0.2	<10	200	0.69	0.29	0.06	0.68	20.7	10.0	13
DD022473		0.21	0.006	1.50	0.81	135.0	<0.2	<10	540	1.05	0.25	1.13	3.82	27.5	8.6	14
DD022474		0.21	0.005	0.98	0.86	106.5	<0.2	<10	460	0.95	0.23	1.35	2.59	16.85	9.5	15
DD022475		0.20	0.003	0.64	0.90	101.5	<0.2	<10	450	0.89	0.21	1.56	2.47	17.70	9.6	16
DD022476		0.23	0.006	2.63	1.14	326	<0.2	<10	300	0.87	0.21	2.60	11.00	19.00	9.5	20
DD022477		0.15	0.009	5.81	0.72	281	<0.2	<10	170	0.66	0.12	4.87	16.80	13.70	4.8	13
DD022478		0.20	0.003	0.71	1.11	214	<0.2	<10	210	0.86	0.21	2.20	6.92	23.8	10.2	18
DD022479		0.12	0.001	0.34	0.80	37.4	<0.2	<10	220	0.69	0.18	1.43	3.27	27.8	7.7	11
DD022480		0.22	0.005	0.57	0.58	36.5	<0.2	<10	180	0.56	0.14	5.10	1.47	21.8	7.1	11
DD022481		0.24	0.001	0.17	1.72	81.7	<0.2	<10	200	0.86	0.30	0.14	0.65	32.4	11.0	25
DD022482		0.25	0.006	0.85	1.39	982	<0.2	<10	260	1.32	0.27	2.33	14.05	24.2	13.0	25
DD022483		0.30	0.001	0.08	1.33	41.0	<0.2	<10	240	0.83	0.31	0.38	1.31	16.05	12.3	23
DD022484		0.20	0.003	0.54	1.24	30.5	<0.2	<10	570	1.19	0.21	2.19	2.67	16.75	8.5	19
DD022485		0.16	0.003	0.57	1.09	18.0	<0.2	<10	430	0.75	0.18	2.34	3.57	11.95	8.7	19
DD022486		0.21	<0.001	0.31	1.10	26.7	<0.2	<10	340	0.84	0.19	2.05	2.05	12.75	8.4	19
DD022487		0.16	<0.001	0.09	1.19	10.4	<0.2	<10	300	0.67	0.27	1.15	0.31	9.09	8.3	17
DD022488		0.24	0.007	8.21	0.36	8.4	<0.2	<10	110	0.15	0.09	0.08	0.44	6.14	1.4	8
DD022489		0.32	0.005	1.80	0.46	37.1	<0.2	<10	470	0.26	0.23	0.27	1.56	6.90	3.2	13
DD022490		0.19	0.003	1.44	0.90	15.7	<0.2	10	530	0.78	0.15	2.17	3.05	8.97	5.1	14
DD022491		0.23	0.002	0.09	1.14	24.8	<0.2	<10	220	1.36	0.34	0.55	0.21	13.45	14.9	23
DD022492		0.22	<0.001	0.05	0.98	73.6	<0.2	<10	130	0.47	0.34	0.29	0.50	10.20	9.4	18
DD022493		0.28	0.002	0.09	1.69	67.6	<0.2	10	160	1.11	0.32	0.11	0.29	17.90	12.5	24
DD022494		0.21	0.002	0.15	1.30	34.0	<0.2	<10	320	0.97	0.25	1.09	0.61	15.75	9.0	20
DD022495		0.23	0.012	2.20	0.42	35.0	<0.2	10	730	0.77	0.21	1.15	0.97	7.42	7.8	23



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD022456		1.51	15.8	2.58	4.56	0.05	0.04	0.29	0.029	0.06	25.9	11.9	0.35	451	1.63	0.02
DD022457		0.87	11.1	0.73	1.61	<0.05	0.03	0.17	0.015	0.03	8.8	2.9	0.09	322	0.66	0.02
DD022458		0.87	17.2	1.97	3.10	<0.05	0.04	0.13	0.028	0.08	8.8	6.9	0.17	163	1.79	0.01
DD022459		1.49	14.3	1.90	3.20	<0.05	0.02	0.08	0.023	0.07	5.2	6.5	0.12	99	2.83	0.01
DD022460		1.89	30.1	2.74	4.72	<0.05	0.04	0.25	0.030	0.05	21.6	9.8	0.29	1220	3.96	0.02
DD022461		1.04	17.8	1.59	2.70	<0.05	0.03	0.56	0.020	0.03	10.7	5.7	0.15	430	1.52	0.02
DD022462		0.69	16.9	1.23	2.20	<0.05	0.03	0.45	0.017	0.04	8.7	4.3	0.14	658	1.10	0.02
DD022463		1.64	25.0	3.10	4.47	<0.05	0.03	0.48	0.031	0.06	18.5	13.0	0.40	583	2.83	0.01
DD022464		1.15	16.6	2.38	3.78	<0.05	0.02	0.42	0.025	0.06	11.0	10.2	0.29	472	3.16	0.02
DD022465		2.28	30.0	2.66	4.09	<0.05	0.05	0.65	0.031	0.09	8.3	11.8	0.28	591	3.50	0.02
DD022466		1.43	28.3	3.16	4.04	<0.05	0.03	0.39	0.034	0.09	12.4	11.4	0.31	681	4.86	0.02
DD022467		1.57	17.4	1.76	1.97	<0.05	0.04	1.66	0.019	0.08	7.4	7.4	5.23	640	2.73	0.02
DD022468		0.56	14.4	0.85	1.76	<0.05	0.04	0.20	0.012	0.03	3.7	2.9	0.11	289	0.91	0.02
DD022469		1.45	46.9	1.45	1.58	<0.05	0.06	0.98	0.027	0.08	4.4	3.3	0.14	148	1.91	0.01
DD022470		3.70	28.2	1.53	3.14	<0.05	<0.02	0.48	0.051	0.14	5.9	3.0	0.06	78	5.40	0.01
DD022471		5.03	7.1	0.48	4.40	<0.05	<0.02	0.06	0.009	0.08	5.3	1.0	0.03	12	2.02	0.01
DD022472		5.95	41.5	2.32	2.77	<0.05	0.02	0.50	0.041	0.09	8.7	5.1	0.09	434	3.85	0.01
DD022473		4.06	52.0	2.78	2.49	0.07	0.05	0.70	0.037	0.09	12.7	10.0	0.33	386	4.84	0.02
DD022474		2.18	48.6	2.58	2.81	<0.05	0.07	0.52	0.032	0.10	8.4	9.1	0.30	490	2.91	0.02
DD022475		1.68	38.2	2.56	3.01	<0.05	0.04	0.42	0.033	0.08	9.0	10.5	0.31	691	3.20	0.02
DD022476		1.11	35.3	2.41	3.40	0.05	0.05	2.22	0.028	0.07	12.1	11.8	0.34	523	6.10	0.02
DD022477		1.07	14.6	1.29	1.93	<0.05	0.02	2.56	0.018	0.04	12.0	3.3	0.51	273	5.83	0.02
DD022478		0.69	14.8	2.47	3.15	<0.05	0.03	0.60	0.039	0.07	12.6	7.0	0.19	457	4.94	0.01
DD022479		0.81	14.8	2.27	2.28	<0.05	0.03	0.13	0.029	0.07	14.3	4.5	0.07	154	5.17	0.01
DD022480		1.16	14.9	1.60	1.36	<0.05	0.02	0.23	0.022	0.06	12.2	3.5	0.55	347	3.04	0.02
DD022481		2.20	20.9	3.57	5.99	<0.05	0.04	0.07	0.044	0.07	11.8	25.9	0.31	359	3.92	0.01
DD022482		1.35	54.7	3.66	4.10	0.05	0.07	3.59	0.034	0.08	16.6	15.3	0.49	397	22.8	0.02
DD022483		1.49	29.7	3.61	4.83	<0.05	0.04	0.10	0.031	0.08	6.8	21.0	0.38	486	4.64	0.01
DD022484		1.12	49.1	2.26	3.46	<0.05	0.05	0.30	0.025	0.06	9.7	12.4	0.25	584	4.79	0.02
DD022485		1.12	33.1	2.06	3.26	<0.05	0.05	0.20	0.022	0.06	6.7	12.6	0.24	584	1.26	0.02
DD022486		0.65	34.5	2.58	3.20	0.05	0.05	0.17	0.029	0.05	7.4	12.8	0.30	360	4.37	0.02
DD022487		0.66	21.2	2.71	4.32	<0.05	0.05	0.04	0.030	0.07	3.5	12.9	0.29	354	1.60	0.02
DD022488		1.65	18.9	0.87	1.45	<0.05	<0.02	0.29	0.017	0.04	3.0	0.5	0.04	54	13.20	0.02
DD022489		5.21	32.6	1.72	2.43	<0.05	<0.02	0.24	0.023	0.11	3.4	5.4	0.12	166	36.9	0.02
DD022490		1.41	42.1	1.52	2.30	0.06	0.07	0.38	0.021	0.06	5.3	7.5	0.24	251	6.76	0.02
DD022491		2.13	50.6	3.83	4.29	0.06	0.09	0.08	0.034	0.12	5.1	19.3	0.49	602	0.79	0.02
DD022492		0.82	27.2	4.35	4.76	<0.05	0.02	0.10	0.029	0.10	4.3	9.8	0.24	874	0.93	0.02
DD022493		1.31	35.3	4.90	5.42	<0.05	0.06	0.18	0.040	0.08	6.4	25.4	0.38	948	0.94	0.02
DD022494		0.99	32.1	3.31	3.81	<0.05	0.05	0.18	0.034	0.07	7.7	16.6	0.44	535	1.01	0.02
DD022495		3.57	70.1	2.94	1.34	0.06	0.04	0.25	0.046	0.12	5.2	1.7	0.07	241	4.58	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD022456		0.93	30.8	870	20.5	8.0	<0.001	0.08	0.84	2.4	0.7	0.6	27.9	0.01	0.03	0.7
DD022457		0.38	9.5	1330	6.0	3.8	<0.001	0.20	0.42	0.5	0.9	0.2	33.2	0.01	0.01	<0.2
DD022458		0.44	26.3	500	13.3	6.7	<0.001	0.05	0.68	3.3	1.5	0.5	21.0	<0.01	0.07	1.2
DD022459		0.64	19.7	430	12.7	10.0	<0.001	0.07	0.83	1.7	1.5	0.5	25.2	<0.01	0.07	1.3
DD022460		0.48	41.3	1460	19.3	9.8	0.001	0.15	1.32	1.7	1.9	0.6	23.6	<0.01	0.07	0.3
DD022461		0.55	17.0	1470	17.5	5.2	0.001	0.19	1.00	0.9	1.6	0.4	34.6	<0.01	0.02	0.2
DD022462		0.43	13.2	1720	11.2	5.0	0.001	0.28	0.66	0.4	0.7	0.3	28.8	<0.01	0.01	<0.2
DD022463		0.71	50.7	900	48.0	9.7	<0.001	0.08	1.61	2.5	1.8	0.6	28.1	<0.01	0.07	0.6
DD022464		0.62	30.8	960	30.4	8.4	<0.001	0.12	1.17	1.4	1.6	0.5	25.6	<0.01	0.05	0.3
DD022465		0.50	66.7	1140	37.8	10.8	0.001	0.15	1.73	2.0	1.4	0.5	27.5	<0.01	0.05	0.6
DD022466		0.41	58.8	1200	37.2	9.4	<0.001	0.14	1.80	2.6	2.1	0.5	28.4	<0.01	0.04	0.5
DD022467		0.26	41.2	710	47.1	5.8	<0.001	0.05	1.72	2.9	1.4	0.4	76.4	<0.01	0.02	1.0
DD022468		0.45	9.6	930	6.8	3.5	<0.001	0.20	0.49	0.6	0.5	0.2	23.7	<0.01	0.04	<0.2
DD022469		0.22	32.8	960	19.9	7.9	0.001	0.13	1.96	2.2	2.9	0.3	40.9	<0.01	0.04	1.1
DD022470		0.25	9.0	570	90.0	15.2	0.002	0.20	2.29	2.4	1.9	0.6	16.3	<0.01	0.13	2.2
DD022471		0.19	4.0	390	21.8	9.5	<0.001	0.05	0.47	0.9	0.8	0.8	12.0	<0.01	0.03	0.5
DD022472		0.30	18.6	1050	41.3	15.6	0.001	0.04	1.99	3.0	2.4	0.5	21.8	<0.01	0.06	2.7
DD022473		0.25	58.5	1000	53.8	9.9	0.002	0.08	2.69	4.6	4.1	0.5	39.8	<0.01	0.06	3.2
DD022474		0.31	40.2	890	43.5	10.6	0.001	0.08	2.10	4.2	2.5	0.5	30.5	<0.01	0.07	2.1
DD022475		0.29	35.9	990	38.2	9.3	0.001	0.10	2.02	3.0	2.3	0.5	31.9	<0.01	0.07	1.1
DD022476		0.44	48.1	1090	255	8.5	0.001	0.14	3.62	1.8	6.0	0.4	42.4	<0.01	0.04	0.5
DD022477		0.37	21.3	1020	332	5.3	<0.001	0.16	6.22	1.1	2.9	0.4	38.3	<0.01	0.03	0.2
DD022478		0.43	33.6	700	64.1	7.7	<0.001	0.09	3.01	2.5	2.0	0.5	39.6	<0.01	0.02	0.7
DD022479		0.32	29.1	430	15.5	9.1	<0.001	0.08	2.42	2.9	1.3	0.4	59.9	<0.01	0.03	1.2
DD022480		0.25	21.3	930	14.0	8.2	<0.001	0.14	1.26	1.2	1.5	0.2	64.3	<0.01	<0.01	0.3
DD022481		0.67	27.4	520	42.3	13.7	<0.001	0.03	1.10	3.2	0.7	0.7	15.4	<0.01	0.04	2.1
DD022482		0.42	192.5	1580	33.3	10.7	0.001	0.08	5.30	4.5	3.7	0.6	57.7	<0.01	0.04	1.9
DD022483		0.36	39.0	780	22.4	16.5	0.001	0.05	1.31	3.4	1.2	0.6	16.7	<0.01	0.03	1.6
DD022484		0.33	58.6	1280	16.3	8.8	0.003	0.17	1.53	2.0	4.4	0.4	55.1	<0.01	0.01	0.5
DD022485		0.32	35.2	1030	13.7	8.1	0.002	0.15	0.89	2.1	3.5	0.4	55.6	<0.01	0.03	0.5
DD022486		0.23	39.4	1130	14.6	6.1	0.002	0.13	1.33	1.6	4.6	0.4	50.2	<0.01	0.05	0.4
DD022487		0.32	17.3	1000	14.4	9.8	0.001	0.11	0.32	2.5	1.0	0.6	38.1	<0.01	0.01	0.9
DD022488		0.20	19.1	1180	6.6	3.0	0.002	0.13	2.65	0.3	5.4	0.4	9.0	<0.01	0.05	<0.2
DD022489		0.19	21.9	640	66.1	10.5	0.007	0.20	10.50	1.7	10.2	0.6	52.6	<0.01	0.21	0.6
DD022490		0.23	49.5	1190	16.7	8.3	0.013	0.16	6.60	2.3	8.1	0.4	66.0	<0.01	0.04	0.6
DD022491		0.61	29.5	430	27.4	11.6	<0.001	0.04	0.44	6.8	0.3	0.7	22.0	<0.01	0.03	4.4
DD022492		0.43	14.8	390	42.1	12.0	0.001	0.02	0.44	2.8	<0.2	0.7	10.2	<0.01	0.04	1.8
DD022493		0.34	25.1	500	47.6	12.8	0.001	0.02	0.43	4.5	0.2	0.6	9.5	<0.01	0.02	3.0
DD022494		0.34	22.6	1250	29.5	21.0	0.001	0.11	0.54	3.0	1.6	0.5	44.4	<0.01	0.03	1.0
DD022495		0.09	90.7	1610	14.0	9.9	0.003	0.16	1.55	4.7	5.5	0.5	126.0	<0.01	0.15	1.3





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**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022456		0.023	0.21	1.83	76	0.36	28.5	139	1.1
DD022457		0.012	0.08	3.02	23	0.07	13.25	78	1.4
DD022458		0.008	0.17	2.19	52	0.15	15.30	97	1.0
DD022459		0.012	0.22	0.71	53	0.15	3.89	83	0.7
DD022460		0.011	0.31	5.35	88	0.28	37.2	199	0.8
DD022461		0.013	0.15	3.93	41	0.17	13.15	94	0.9
DD022462		0.011	0.11	6.73	39	0.13	14.50	130	0.9
DD022463		0.020	0.26	1.85	78	0.42	22.1	260	0.7
DD022464		0.016	0.34	2.24	49	0.39	9.87	165	0.7
DD022465		0.008	0.58	5.22	63	0.46	14.70	456	1.6
DD022466		0.011	0.61	2.35	76	0.57	19.00	418	0.8
DD022467		0.008	0.46	1.80	37	0.56	11.45	398	1.2
DD022468		0.016	0.09	2.26	15	0.07	4.20	131	1.7
DD022469		<0.005	0.27	4.56	38	0.34	10.10	212	2.1
DD022470		0.005	0.93	1.13	54	0.30	2.99	46	<0.5
DD022471		0.006	0.56	0.37	35	0.16	1.66	23	<0.5
DD022472		<0.005	0.63	2.24	52	0.29	8.99	150	0.6
DD022473		<0.005	0.53	1.80	60	0.23	33.4	368	1.6
DD022474		0.005	0.36	1.67	59	0.19	13.45	318	2.3
DD022475		0.005	0.34	1.81	62	0.15	12.55	277	1.5
DD022476		0.007	0.88	6.26	120	0.21	16.00	802	1.3
DD022477		0.010	0.50	5.04	99	0.21	12.05	446	0.9
DD022478		0.007	0.75	2.89	137	0.25	13.85	369	0.9
DD022479		<0.005	0.39	1.97	75	0.06	13.00	246	1.2
DD022480		0.006	0.48	1.57	36	0.05	13.35	119	1.0
DD022481		0.008	0.35	1.02	82	0.22	6.96	162	1.2
DD022482		0.008	3.51	6.27	217	0.24	45.6	3270	2.2
DD022483		0.006	0.49	1.65	158	0.08	5.70	234	1.4
DD022484		0.005	0.42	6.13	127	0.09	19.20	147	1.8
DD022485		0.005	0.24	3.79	96	0.06	9.80	157	1.7
DD022486		0.006	0.15	3.30	97	0.06	12.60	139	1.4
DD022487		0.005	0.10	1.16	27	0.05	4.10	76	1.4
DD022488		0.010	0.60	1.63	53	0.09	2.73	49	<0.5
DD022489		0.006	2.19	2.34	202	0.24	5.33	118	0.5
DD022490		<0.005	0.60	3.18	119	0.08	13.35	162	2.3
DD022491		0.009	0.15	0.88	26	0.20	9.96	118	2.4
DD022492		0.007	0.37	0.49	37	0.14	2.48	258	0.6
DD022493		<0.005	0.46	0.79	38	0.10	5.04	244	1.4
DD022494		0.008	0.22	3.66	29	0.09	10.90	205	1.4
DD022495		<0.005	0.67	2.82	43	0.05	28.5	291	1.4



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD022496		0.20	0.011	3.28	0.49	27.1	<0.2	10	750	0.75	0.19	2.12	1.33	6.91	7.5	25
DD022497		0.24	0.009	4.27	0.53	22.1	<0.2	10	790	0.71	0.18	1.85	1.07	7.64	4.7	31
DD022498		0.24	0.005	1.56	0.42	58.6	<0.2	10	1700	0.76	0.19	0.77	1.43	5.95	5.9	17
DD022499		0.21	0.004	2.38	0.58	46.3	<0.2	10	1140	0.59	0.14	2.00	1.22	7.48	4.2	24
DD022500		0.22	0.004	1.29	0.53	18.9	<0.2	10	1360	0.47	0.13	1.79	0.99	6.53	3.2	21
ZZ61001		0.19	0.005	2.47	0.55	33.4	<0.2	10	1210	0.64	0.15	1.76	1.13	9.73	3.9	30
ZZ61002		0.19	0.006	2.54	0.51	46.6	<0.2	10	1390	0.60	0.16	0.95	1.93	8.86	5.1	28
ZZ61003		0.22	0.006	2.34	0.64	55.0	<0.2	10	1540	0.71	0.17	1.44	1.46	9.39	4.2	33
ZZ61004		0.23	0.015	1.49	1.27	365	<0.2	<10	1300	0.74	0.21	1.32	1.64	15.75	6.6	29
ZZ61005		0.26	0.009	0.77	1.00	557	<0.2	10	330	0.86	0.17	3.04	4.07	17.15	7.0	23
ZZ61006		0.31	0.008	0.76	1.27	5520	<0.2	10	510	1.79	0.24	1.43	14.30	21.2	16.8	29
ZZ61007		0.25	0.010	0.74	1.38	496	<0.2	10	250	1.83	0.26	3.23	4.23	27.2	10.1	27
ZZ61008		0.28	0.007	0.60	0.88	496	<0.2	10	200	0.95	0.17	5.74	2.17	16.95	6.9	18
ZZ61009		0.26	0.017	0.88	1.02	370	<0.2	10	170	1.06	0.18	5.71	2.49	21.2	7.7	20
ZZ61010		0.20	0.135	0.91	0.86	247	<0.2	<10	160	0.88	0.14	9.46	5.42	12.90	6.6	15
ZZ61011		0.17	0.011	0.26	0.80	138.0	<0.2	10	150	0.69	0.13	4.35	3.27	11.80	4.1	16
ZZ61012		0.19	0.021	0.50	1.58	188.0	<0.2	<10	320	0.98	0.25	1.50	1.02	20.0	7.6	25
ZZ61013		0.15	0.056	2.00	0.56	143.5	<0.2	10	860	2.08	0.16	1.57	20.4	10.85	37.0	17
ZZ61014		0.19	0.010	3.03	0.55	382	<0.2	<10	500	0.71	0.18	0.84	1.60	15.20	6.0	10
ZZ61015		0.20	0.011	1.00	0.92	1325	<0.2	<10	570	1.08	0.16	1.31	10.55	15.40	6.8	17
ZZ61016		0.23	0.011	1.36	1.06	802	<0.2	<10	770	1.10	0.14	1.49	6.00	15.75	5.6	20
ZZ61017		0.26	0.009	1.09	0.71	728	<0.2	10	610	0.57	0.11	1.97	10.85	10.95	5.4	15
ZZ61018		0.19	0.010	0.82	0.99	1090	<0.2	<10	320	1.16	0.16	2.40	19.75	18.15	8.9	22
ZZ61019		0.26	0.004	0.88	1.25	1135	<0.2	<10	260	1.69	0.22	0.77	8.12	40.0	13.4	29
ZZ61020		0.23	0.006	2.62	0.90	683	<0.2	<10	200	0.94	0.18	3.58	11.60	29.5	9.8	18
ZZ61021		0.21	0.005	0.24	1.77	923	<0.2	<10	420	1.38	0.25	0.42	2.66	31.3	11.3	29
ZZ61022		0.25	0.002	0.20	1.35	598	<0.2	<10	160	0.82	0.27	0.11	2.34	17.70	11.5	24
ZZ61023		0.31	0.002	0.17	1.28	215	<0.2	<10	140	0.66	0.23	0.09	1.26	19.40	6.0	23
ZZ61024		0.21	0.002	0.17	1.32	424	<0.2	<10	190	0.91	0.28	0.10	1.73	21.2	11.4	23
ZZ61025		0.22	0.005	0.50	1.18	123.0	<0.2	<10	380	0.95	0.24	1.04	3.61	25.4	7.4	19
ZZ61026		0.21	0.001	0.21	1.18	38.8	<0.2	<10	360	0.77	0.27	0.36	0.78	17.85	8.2	18
ZZ61027		0.27	0.001	0.35	1.02	50.2	<0.2	<10	240	1.05	0.24	0.38	2.00	25.5	13.5	17
ZZ61028		0.25	<0.001	0.46	0.94	21.8	<0.2	<10	230	0.74	0.19	0.41	2.36	14.40	8.0	13
ZZ61029		0.26	0.001	0.09	1.31	23.8	<0.2	<10	160	0.83	0.28	0.11	1.56	22.9	14.0	17
ZZ61030		0.22	0.003	2.50	0.69	31.8	<0.2	<10	150	1.18	0.22	0.60	8.71	39.7	12.5	14
ZZ61031		0.18	0.002	0.47	1.52	45.9	<0.2	<10	280	0.78	0.33	0.90	4.40	18.40	5.0	56
ZZ61032		0.23	0.004	1.91	0.53	39	<0.2	<10	250	1.09	0.19	11.20	19.90	22.1	4.4	60
ZZ61033		0.25	0.001	0.09	1.34	19.2	<0.2	<10	70	0.63	0.39	0.02	0.11	16.60	9.2	17
ZZ61034		0.28	0.002	0.06	1.83	12.3	<0.2	<10	100	1.20	0.59	0.04	0.10	12.60	24.3	27
ZZ61035		0.25	0.003	0.13	0.74	22.3	<0.2	<10	240	0.95	0.14	0.22	0.63	27.1	9.8	9



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD022496		3.87	83.1	3.02	1.22	0.09	0.06	0.29	0.042	0.13	5.1	1.6	0.18	146	4.77	0.03
DD022497		2.24	81.9	2.82	1.21	0.07	0.05	0.36	0.046	0.11	5.9	1.8	0.08	96	4.31	0.03
DD022498		0.70	57.8	2.88	1.31	0.05	0.07	0.26	0.037	0.10	3.9	2.0	0.07	100	5.06	0.02
DD022499		0.34	35.3	1.99	1.69	0.06	0.06	0.20	0.030	0.06	6.0	3.5	0.18	117	6.38	0.02
DD022500		0.40	23.1	1.85	1.67	<0.05	0.05	0.16	0.026	0.06	4.4	3.5	0.10	106	6.18	0.02
ZZ61001		0.38	23.8	2.28	1.67	0.05	0.04	0.16	0.024	0.06	6.4	3.1	0.11	151	5.04	0.02
ZZ61002		0.82	42.5	2.57	1.71	0.07	0.05	0.22	0.031	0.07	5.8	2.6	0.09	101	6.79	0.02
ZZ61003		1.06	35.3	2.33	2.01	0.06	0.05	0.20	0.029	0.05	7.4	3.5	0.12	132	5.15	0.02
ZZ61004		2.59	24.2	2.64	4.29	0.06	0.04	0.43	0.033	0.05	7.8	8.2	0.21	509	7.47	0.03
ZZ61005		1.12	26.5	2.33	2.74	0.06	0.03	0.66	0.032	0.06	12.0	5.9	0.22	1050	6.29	0.03
ZZ61006		2.82	49.1	8.19	3.89	0.08	0.05	0.90	0.037	0.11	12.3	10.9	0.31	750	13.25	0.03
ZZ61007		1.68	39.0	2.81	3.59	0.07	0.10	0.40	0.042	0.09	17.4	13.8	0.61	995	3.35	0.04
ZZ61008		0.88	22.7	2.43	2.41	0.05	0.02	0.30	0.025	0.06	9.7	7.3	2.67	496	3.06	0.03
ZZ61009		0.86	25.1	2.36	2.61	0.05	0.03	0.58	0.029	0.08	14.9	9.2	1.87	620	2.69	0.03
ZZ61010		1.00	16.5	1.77	2.16	<0.05	0.02	0.42	0.022	0.05	8.3	5.9	4.82	605	1.48	0.03
ZZ61011		0.90	20.2	1.15	1.66	0.05	0.05	0.28	0.027	0.04	12.5	3.3	0.17	581	1.06	0.03
ZZ61012		3.06	25.1	2.78	4.23	<0.05	0.04	0.36	0.030	0.06	10.6	10.8	0.40	386	1.61	0.02
ZZ61013		4.80	199.5	2.33	1.36	0.08	0.05	0.86	0.036	0.12	4.9	3.0	0.11	1380	8.99	0.02
ZZ61014		22.3	54.3	1.88	1.67	0.06	0.06	1.11	0.031	0.09	7.2	1.6	0.07	237	2.91	0.02
ZZ61015		3.16	51.8	2.45	1.99	0.05	0.05	0.80	0.028	0.07	9.2	4.3	0.13	207	6.44	0.02
ZZ61016		1.91	41.6	2.13	2.51	0.05	0.06	1.30	0.027	0.06	8.6	5.6	0.16	170	4.37	0.02
ZZ61017		1.32	27.1	1.72	1.88	<0.05	0.05	1.08	0.024	0.07	6.5	3.5	0.13	188	4.63	0.02
ZZ61018		1.18	30.8	2.84	2.60	0.06	0.05	1.31	0.025	0.06	13.5	5.8	0.16	320	14.60	0.02
ZZ61019		2.88	26.6	3.64	3.47	0.12	0.06	0.86	0.047	0.10	24.1	6.8	0.16	522	34.0	0.02
ZZ61020		1.91	21.9	2.68	2.79	0.06	0.04	3.69	0.033	0.06	15.5	5.0	1.24	375	8.76	0.03
ZZ61021		2.35	28.1	3.75	4.56	0.06	0.05	0.45	0.036	0.07	12.8	13.3	0.40	377	6.47	0.02
ZZ61022		1.98	34.5	4.07	4.37	<0.05	0.03	0.10	0.036	0.07	8.4	14.5	0.27	380	8.66	0.01
ZZ61023		1.54	17.6	2.56	4.58	<0.05	<0.02	0.06	0.031	0.05	9.5	12.0	0.25	224	3.78	0.01
ZZ61024		1.55	27.7	3.75	4.18	<0.05	0.02	0.10	0.034	0.07	8.7	13.7	0.26	780	4.97	0.01
ZZ61025		1.46	32.2	2.96	3.72	<0.05	0.04	0.29	0.034	0.08	14.3	11.9	0.29	363	2.99	0.02
ZZ61026		1.10	19.0	2.84	4.49	<0.05	0.04	0.04	0.030	0.10	7.9	8.7	0.16	420	5.66	0.01
ZZ61027		1.47	32.5	3.25	3.25	<0.05	0.03	0.04	0.039	0.14	9.8	9.6	0.19	827	6.85	0.01
ZZ61028		1.07	19.3	2.17	3.39	<0.05	<0.02	0.03	0.031	0.11	6.6	4.0	0.10	801	4.27	0.01
ZZ61029		1.44	22.6	4.18	4.50	<0.05	0.03	0.04	0.046	0.11	7.8	12.2	0.18	611	3.47	0.01
ZZ61030		2.64	51.0	3.77	1.94	0.09	0.08	0.17	0.042	0.12	22.8	3.6	0.09	224	15.30	0.01
ZZ61031		2.09	107.5	2.66	6.60	<0.05	0.03	0.09	0.035	0.06	10.4	9.8	0.18	72	34.8	0.01
ZZ61032		0.83	133.0	1.34	2.37	0.07	0.06	0.51	0.027	0.09	15.1	5.2	5.02	142	44.6	0.03
ZZ61033		1.68	26.3	3.68	6.29	<0.05	0.04	0.03	0.027	0.09	7.3	13.7	0.17	298	0.96	0.01
ZZ61034		2.12	31.0	4.29	8.19	<0.05	0.04	0.03	0.042	0.11	4.7	26.3	0.32	1760	0.61	0.01
ZZ61035		2.39	26.3	3.33	2.07	<0.05	0.02	0.04	0.039	0.07	10.5	4.3	0.06	206	6.47	0.01

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**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD022496		0.08	111.0	2000	12.0	11.8	0.004	0.28	1.63	5.4	9.7	0.4	160.5	<0.01	0.12	1.1
DD022497		0.07	84.0	1940	10.7	10.4	0.004	0.27	1.47	5.6	8.9	0.4	127.5	<0.01	0.13	1.1
DD022498		0.10	102.0	1460	12.6	5.6	0.003	0.11	1.84	6.6	5.0	0.4	132.5	<0.01	0.12	0.9
DD022499		0.19	64.4	1280	9.6	4.7	0.004	0.12	1.46	2.8	4.4	0.4	177.0	<0.01	0.05	0.4
DD022500		0.22	41.9	840	9.3	4.9	0.002	0.16	1.03	2.3	2.8	0.4	140.0	<0.01	0.05	0.3
ZZ61001		0.22	46.4	1180	9.6	4.7	0.002	0.17	1.43	2.6	5.5	0.4	199.5	<0.01	0.06	0.5
ZZ61002		0.16	70.4	1810	11.2	6.1	0.003	0.08	1.79	5.6	6.0	0.5	215	<0.01	0.05	1.7
ZZ61003		0.20	54.3	1380	11.5	5.4	0.004	0.10	1.62	3.9	4.9	0.5	180.0	<0.01	0.06	0.6
ZZ61004		0.50	51.0	1820	22.6	9.6	0.003	0.13	2.45	3.0	6.1	0.6	140.5	<0.01	0.08	0.6
ZZ61005		0.39	49.2	1730	26.2	6.3	0.002	0.17	2.37	4.5	3.9	0.5	64.0	<0.01	0.07	0.2
ZZ61006		0.36	189.5	1270	32.7	9.0	0.003	0.11	3.51	15.1	5.9	0.6	85.3	<0.01	0.05	1.5
ZZ61007		0.63	54.8	1380	40.1	8.7	0.001	0.13	2.13	9.1	2.9	0.6	54.2	<0.01	0.05	0.9
ZZ61008		0.28	39.1	940	39.3	5.6	0.001	0.10	1.94	2.6	1.9	0.4	50.2	<0.01	0.03	0.4
ZZ61009		0.32	39.8	1140	53.6	5.7	0.002	0.12	2.05	2.5	1.7	0.4	52.9	<0.01	0.02	0.4
ZZ61010		0.28	26.2	990	68.8	6.1	<0.001	0.10	2.84	1.3	1.0	0.4	55.9	<0.01	0.02	0.2
ZZ61011		0.37	16.5	1240	20.0	4.9	0.002	0.22	1.17	3.5	1.6	0.3	37.8	0.01	0.02	<0.2
ZZ61012		0.57	30.7	1080	28.1	9.1	0.001	0.08	1.19	2.7	1.2	0.5	26.7	<0.01	0.01	0.8
ZZ61013		0.10	219	1560	29.0	10.9	0.007	0.25	3.43	4.2	8.4	0.4	162.5	<0.01	0.08	1.1
ZZ61014		0.19	38.4	1440	46.6	16.2	0.003	0.13	2.11	2.7	3.9	0.4	46.0	<0.01	0.03	1.0
ZZ61015		0.20	103.0	1300	70.7	10.5	0.002	0.12	3.54	2.3	4.4	0.4	63.4	<0.01	0.04	0.8
ZZ61016		0.25	77.0	1430	78.1	8.9	0.002	0.13	3.24	2.1	4.2	0.4	57.2	<0.01	0.02	0.6
ZZ61017		0.22	60.8	1190	75.5	7.4	0.002	0.15	3.41	1.7	4.7	0.4	56.7	<0.01	0.04	0.5
ZZ61018		0.23	130.0	1080	119.5	8.0	<0.001	0.12	6.50	2.4	6.3	0.4	52.3	<0.01	0.03	0.6
ZZ61019		0.30	296	930	72.8	13.1	0.001	0.04	7.02	5.3	13.6	0.6	33.9	<0.01	0.06	2.8
ZZ61020		0.28	92.6	810	383	8.6	0.001	0.06	8.70	3.1	6.4	0.5	72.1	<0.01	0.02	1.3
ZZ61021		0.49	97.6	660	124.0	12.3	0.001	0.03	6.15	4.3	2.2	0.6	39.2	<0.01	0.05	2.3
ZZ61022		0.49	63.8	1120	64.9	10.7	<0.001	0.04	2.88	2.4	1.8	0.5	25.4	<0.01	0.08	1.4
ZZ61023		0.18	30.3	1330	26.5	13.5	<0.001	0.05	1.34	0.3	1.3	0.5	15.0	<0.01	0.05	<0.2
ZZ61024		0.38	40.9	1210	55.0	12.8	<0.001	0.05	1.76	1.5	1.5	0.5	17.0	<0.01	0.06	0.7
ZZ61025		0.48	32.9	1340	35.0	12.8	<0.001	0.09	1.80	2.2	1.3	0.5	24.8	<0.01	0.06	0.7
ZZ61026		0.45	20.3	1610	21.8	15.4	<0.001	0.08	1.53	1.8	1.1	0.6	16.4	<0.01	0.05	0.7
ZZ61027		0.24	34.7	2350	23.6	13.2	0.001	0.09	2.50	1.2	1.8	0.5	19.7	<0.01	0.08	0.6
ZZ61028		0.24	17.2	2610	13.5	16.3	0.001	0.15	1.08	0.4	1.0	0.5	16.0	<0.01	0.03	<0.2
ZZ61029		0.55	24.6	630	21.9	13.2	<0.001	0.04	0.97	2.7	0.9	0.7	9.2	<0.01	0.05	2.3
ZZ61030		0.10	79.4	470	17.7	12.9	0.002	0.04	12.45	6.3	14.2	0.4	15.1	<0.01	0.09	3.4
ZZ61031		0.36	113.0	1160	20.7	11.1	0.001	0.09	8.76	1.8	10.4	0.9	19.3	<0.01	0.18	0.6
ZZ61032		0.11	175.5	2410	14.4	6.9	0.003	0.09	13.80	3.6	12.8	0.7	136.0	<0.01	0.21	1.4
ZZ61033		0.55	13.5	420	26.8	16.1	<0.001	0.03	0.51	2.5	0.7	0.7	7.8	<0.01	0.07	2.7
ZZ61034		0.37	21.1	540	49.0	18.0	<0.001	0.03	0.26	3.8	0.4	1.1	9.1	<0.01	0.05	3.3
ZZ61035		0.21	41.0	550	16.2	7.9	0.001	0.03	1.03	3.5	1.1	0.5	12.4	<0.01	0.06	1.6

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD022496		<0.005	0.50	3.91	41	<0.05	39.9	356	2.1
DD022497		<0.005	0.21	4.35	44	<0.05	44.4	239	2.3
DD022498		<0.005	0.26	3.91	59	0.07	37.6	244	2.5
DD022499		<0.005	0.15	2.98	58	0.11	26.8	191	1.9
DD022500		0.005	0.16	2.41	44	0.09	20.1	160	1.8
ZZ61001		0.007	0.23	2.78	64	0.11	28.9	149	1.6
ZZ61002		0.005	0.26	3.41	64	0.11	32.9	238	2.1
ZZ61003		0.005	0.24	3.98	78	0.12	39.0	180	2.0
ZZ61004		0.011	1.15	2.45	146	0.33	16.20	191	1.3
ZZ61005		0.014	0.60	4.87	113	0.32	49.0	281	1.3
ZZ61006		0.012	2.06	3.64	157	0.66	55.9	733	2.3
ZZ61007		0.019	0.45	1.90	84	0.47	46.9	341	3.3
ZZ61008		0.010	0.36	1.43	58	0.28	20.1	254	0.6
ZZ61009		0.010	0.32	1.85	66	0.30	26.0	236	0.6
ZZ61010		0.010	0.29	0.87	49	0.44	22.6	311	<0.5
ZZ61011		0.012	0.17	4.21	53	0.21	33.7	186	1.7
ZZ61012		0.013	0.44	2.23	73	0.26	15.15	173	0.9
ZZ61013		<0.005	1.95	7.31	66	0.27	44.7	1140	1.9
ZZ61014		<0.005	1.03	5.13	49	0.17	22.2	204	1.6
ZZ61015		<0.005	3.73	5.74	165	0.17	32.9	773	1.6
ZZ61016		<0.005	2.26	4.05	141	0.14	24.7	547	1.6
ZZ61017		0.005	2.29	4.81	124	0.17	15.80	484	1.6
ZZ61018		<0.005	2.85	4.16	242	0.25	31.8	1430	1.4
ZZ61019		<0.005	7.50	4.45	332	0.30	36.6	1760	1.9
ZZ61020		0.006	2.88	2.42	167	0.30	22.7	1390	1.0
ZZ61021		0.009	1.94	2.83	159	0.29	19.55	671	1.3
ZZ61022		0.009	1.13	1.51	125	0.22	8.80	402	0.9
ZZ61023		0.008	0.65	1.45	77	0.21	5.76	226	<0.5
ZZ61024		0.009	0.78	1.62	90	0.17	7.42	296	<0.5
ZZ61025		0.009	0.68	2.09	68	0.12	16.90	294	1.0
ZZ61026		0.007	0.33	1.91	85	0.11	6.46	155	1.0
ZZ61027		<0.005	0.32	2.59	65	0.07	10.25	218	0.7
ZZ61028		<0.005	0.36	2.42	44	0.11	5.54	121	<0.5
ZZ61029		0.005	0.30	0.69	47	0.08	4.09	153	1.0
ZZ61030		<0.005	0.40	5.39	231	<0.05	30.2	585	2.5
ZZ61031		0.006	1.12	4.52	632	0.23	14.55	512	0.9
ZZ61032		<0.005	0.53	6.69	554	0.32	37.4	973	2.7
ZZ61033		0.006	0.15	0.41	38	0.08	2.62	62	1.2
ZZ61034		<0.005	0.15	0.60	33	0.05	4.55	93	1.2
ZZ61035		<0.005	0.51	0.82	30	<0.05	7.67	85	0.8



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ61036		0.21	0.002	0.08	1.43	24.6	<0.2	<10	390	0.61	0.27	0.69	0.38	18.00	7.3	17
ZZ61037		0.27	0.003	0.53	1.34	32.0	<0.2	<10	250	1.21	0.24	0.61	1.33	55.6	10.5	17
ZZ61038		0.31	0.002	0.22	1.55	21.8	<0.2	<10	250	0.81	0.26	0.60	0.68	33.1	8.3	26
ZZ61039		0.18	0.004	0.16	1.48	21.5	<0.2	<10	170	0.70	0.27	0.26	0.26	32.5	9.5	28
ZZ61040		0.26	0.001	0.22	1.26	66.5	<0.2	<10	280	1.20	0.21	1.00	0.98	34.5	15.0	29
ZZ61041		0.28	0.002	0.06	1.60	49.9	<0.2	<10	270	0.91	0.29	0.53	0.21	22.0	15.0	27
ZZ61042		0.23	0.001	0.13	1.58	116.0	<0.2	<10	150	0.78	0.27	0.07	0.22	20.0	16.1	31
ZZ61043		0.27	0.001	0.07	1.37	115.5	<0.2	<10	170	0.69	0.26	0.53	0.33	21.2	9.6	27
ZZ61044		0.23	<0.001	0.07	1.57	19.4	<0.2	<10	140	0.63	0.29	0.31	0.30	27.2	8.1	23
ZZ61045		0.20	0.001	0.04	1.72	35.4	<0.2	<10	130	0.66	0.32	0.06	0.21	22.3	16.0	25
ZZ61046		0.30	0.001	0.06	1.60	28.3	<0.2	<10	190	0.76	0.25	0.15	0.41	24.2	10.3	30
ZZ61047		0.27	0.002	0.88	0.36	49.8	<0.2	<10	90	0.75	0.17	8.26	2.93	40.6	9.9	9
ZZ61048		0.23	0.003	0.62	1.12	257	<0.2	<10	220	1.18	0.25	1.47	1.97	53.7	9.8	20
ZZ61049		0.20	0.001	0.83	0.57	408	<0.2	<10	170	0.82	0.19	3.14	3.15	34.5	10.0	13
ZZ61050		0.23	0.004	1.06	0.75	153.0	<0.2	<10	610	0.81	0.25	0.17	2.19	17.85	11.3	13
ZZ61051		0.25	0.002	1.32	0.52	88.8	<0.2	<10	210	0.28	0.27	0.02	0.70	9.82	6.5	11
ZZ61052		0.27	0.008	1.53	0.45	84.5	<0.2	<10	580	0.60	0.29	0.03	0.91	12.05	4.1	10
ZZ61053		0.39	0.014	2.84	0.46	66.8	<0.2	<10	530	0.43	0.28	0.02	0.41	8.01	1.2	14
ZZ61054		0.30	0.010	4.41	0.45	135.5	<0.2	<10	180	0.21	0.40	0.02	0.34	8.44	1.6	21
ZZ61055		0.26	0.007	3.83	1.15	199.0	<0.2	<10	1810	1.48	0.25	0.78	3.38	12.05	8.5	70
ZZ61056		0.22	0.028	1.38	0.53	116.0	<0.2	<10	1050	0.49	0.21	0.10	1.20	5.98	7.0	27
ZZ61057		0.30	0.003	0.81	0.40	22.7	<0.2	<10	1490	0.68	0.23	0.35	0.63	10.35	6.8	23
ZZ61058		0.30	0.005	1.93	0.44	55.1	<0.2	<10	1690	0.64	0.11	1.54	1.00	9.11	4.1	23
ZZ61059		0.34	0.005	2.87	0.59	47.8	<0.2	<10	1370	0.74	0.17	1.21	1.14	8.40	7.5	30
ZZ61060		0.25	0.003	0.88	0.65	50.7	<0.2	<10	1740	0.63	0.24	0.47	0.42	8.69	5.9	21
ZZ61061		0.22	0.004	1.69	0.51	47.8	<0.2	<10	1150	0.62	0.21	0.50	0.59	5.36	4.1	16
ZZ61062		0.24	0.003	2.14	0.39	30.8	<0.2	<10	520	0.17	0.23	0.03	0.18	5.27	2.3	27
ZZ61063		0.34	0.002	0.48	1.14	27.1	<0.2	<10	370	0.35	0.29	0.23	0.47	15.30	5.7	28
ZZ61064		0.23	0.005	1.35	0.57	18.2	<0.2	<10	670	0.46	0.17	0.11	0.36	7.95	2.5	30
ZZ61065		0.33	0.002	0.83	0.87	15.1	<0.2	<10	770	0.44	0.22	0.40	0.43	13.25	5.9	26
ZZ61066		0.34	0.003	1.27	0.67	11.3	<0.2	<10	1390	0.74	0.18	0.27	0.66	16.70	7.0	20
ZZ61067		0.28	0.001	0.29	0.43	7.6	<0.2	<10	650	0.20	0.17	0.12	0.18	5.95	3.2	10
ZZ61068		0.37	0.002	0.15	1.62	38.0	<0.2	<10	270	0.54	0.32	0.19	0.25	20.0	6.2	28
ZZ61069		0.27	0.003	1.12	0.68	26.0	<0.2	<10	590	0.51	0.21	1.55	1.33	23.8	6.1	25
ZZ61070		0.25	0.002	0.17	0.59	117.5	<0.2	<10	130	0.39	0.10	2.71	1.97	10.45	7.5	16
ZZ61071		0.28	0.002	0.41	0.93	53.6	<0.2	<10	520	0.57	0.16	3.39	1.17	17.70	7.4	25
ZZ61072		0.22	0.001	0.12	0.77	234	<0.2	<10	470	0.29	0.18	1.22	1.73	8.33	39.9	17
ZZ61073		0.29	0.005	0.15	0.64	74.2	<0.2	<10	270	0.26	0.20	1.91	1.11	7.63	6.6	14
ZZ61074		0.22	0.003	0.30	0.67	371	<0.2	<10	260	0.52	0.25	2.03	1.56	13.90	8.3	23
ZZ61075		0.33	0.002	0.22	0.72	190.0	<0.2	<10	180	0.66	0.26	5.52	6.07	27.2	12.6	25





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 Plus Appendix Pages  
 Finalized Date: 27- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ61036		1.89	17.1	3.06	6.07	<0.05	0.04	0.02	0.044	0.07	7.6	8.6	0.15	281	2.92	0.01
ZZ61037		0.54	17.1	3.05	3.28	0.05	0.04	0.06	0.040	0.06	23.3	10.1	0.13	454	2.96	0.01
ZZ61038		1.21	16.7	2.88	4.89	<0.05	0.02	0.02	0.036	0.06	16.3	12.5	0.34	329	1.84	0.01
ZZ61039		1.74	18.1	3.27	5.09	<0.05	<0.02	0.02	0.040	0.06	14.0	11.7	0.31	386	1.51	0.01
ZZ61040		1.37	24.6	4.57	3.78	<0.05	0.04	0.11	0.043	0.07	16.5	10.2	0.17	624	2.57	0.01
ZZ61041		2.77	31.2	4.14	5.57	<0.05	0.05	<0.01	0.047	0.08	8.0	22.5	0.34	504	2.08	0.01
ZZ61042		1.99	25.0	4.54	4.89	<0.05	0.03	0.02	0.042	0.07	8.2	17.5	0.21	440	2.22	0.01
ZZ61043		1.68	16.3	3.27	5.05	<0.05	<0.02	0.01	0.032	0.06	8.7	10.9	0.23	377	1.93	0.01
ZZ61044		1.39	17.0	2.77	5.54	<0.05	<0.02	0.01	0.028	0.05	10.2	12.8	0.25	302	1.46	0.01
ZZ61045		1.41	25.6	4.49	5.61	<0.05	0.02	0.04	0.038	0.08	9.6	19.9	0.34	430	1.80	0.01
ZZ61046		1.64	21.6	4.13	5.20	<0.05	0.03	0.01	0.041	0.08	8.9	11.7	0.17	443	1.66	0.01
ZZ61047		2.31	27.9	2.30	0.98	<0.05	0.03	0.11	0.025	0.13	26.0	2.7	3.44	227	3.88	0.02
ZZ61048		1.19	24.5	3.03	2.99	0.05	0.05	0.15	0.038	0.09	34.9	7.9	0.20	443	3.13	0.01
ZZ61049		1.50	25.1	2.53	1.60	<0.05	0.05	0.17	0.032	0.12	21.7	4.2	0.56	285	4.07	0.01
ZZ61050		11.20	47.6	2.55	2.82	<0.05	<0.02	0.16	0.032	0.12	7.0	2.5	0.06	428	5.27	0.01
ZZ61051		13.65	40.0	2.16	3.47	<0.05	<0.02	0.07	0.024	0.12	4.5	1.3	0.03	89	4.73	0.01
ZZ61052		8.95	47.9	3.34	2.15	<0.05	<0.02	0.12	0.051	0.31	4.9	1.5	0.03	82	8.34	0.03
ZZ61053		11.75	41.9	2.82	2.00	0.05	<0.02	0.22	0.058	0.34	3.5	1.3	0.03	42	13.70	0.02
ZZ61054		14.50	34.5	5.07	3.43	0.05	<0.02	0.25	0.098	0.60	4.3	1.4	0.03	38	28.4	0.03
ZZ61055		1.90	108.5	3.53	3.07	0.05	0.05	0.38	0.059	0.11	7.0	4.4	0.08	100	13.25	0.02
ZZ61056		2.73	34.7	2.69	2.42	<0.05	0.03	0.25	0.026	0.05	3.4	1.0	0.02	33	8.68	0.01
ZZ61057		3.77	36.2	2.48	1.29	<0.05	0.02	0.08	0.033	0.08	4.2	2.2	0.02	125	3.33	0.02
ZZ61058		0.82	28.8	2.22	1.04	0.05	0.04	0.32	0.021	0.04	4.7	1.8	0.03	121	4.54	0.07
ZZ61059		0.77	45.7	2.91	1.90	0.07	0.05	0.18	0.031	0.08	5.2	3.7	0.04	110	9.77	0.06
ZZ61060		1.55	37.5	2.95	3.37	<0.05	0.02	0.08	0.030	0.07	4.8	3.5	0.08	90	8.90	0.07
ZZ61061		1.68	39.6	2.70	1.61	<0.05	0.03	0.14	0.036	0.13	3.6	2.9	0.04	54	5.75	0.05
ZZ61062		6.42	31.7	3.75	2.35	0.05	<0.02	0.10	0.042	0.23	3.3	1.1	0.02	38	9.99	0.03
ZZ61063		2.37	18.4	2.78	5.62	<0.05	<0.02	0.06	0.024	0.05	8.0	5.2	0.21	213	3.38	0.02
ZZ61064		3.77	50.7	1.87	1.74	<0.05	<0.02	0.08	0.030	0.05	5.1	1.1	0.03	35	3.99	0.03
ZZ61065		4.18	26.3	2.86	3.11	<0.05	<0.02	0.07	0.031	0.11	6.0	6.1	0.11	251	4.05	0.05
ZZ61066		1.69	28.3	4.36	1.73	0.05	0.03	0.11	0.029	0.05	11.8	3.6	0.09	481	2.15	0.06
ZZ61067		1.92	19.8	1.88	1.78	<0.05	<0.02	0.05	0.026	0.07	2.8	1.6	0.03	61	1.70	0.03
ZZ61068		2.49	13.8	2.78	6.71	<0.05	<0.02	0.07	0.027	0.05	9.9	14.9	0.37	256	1.33	0.01
ZZ61069		0.94	20.1	2.40	2.16	0.05	0.04	0.13	0.031	0.05	20.8	4.5	0.12	342	2.05	0.03
ZZ61070		1.00	17.0	1.22	1.88	0.06	0.04	0.09	0.018	0.08	19.6	4.4	0.11	396	1.75	0.01
ZZ61071		0.50	18.5	1.53	2.39	0.06	0.03	0.11	0.020	0.06	29.4	6.7	0.23	322	3.88	0.03
ZZ61072		1.68	18.7	2.06	3.22	<0.05	0.02	0.09	0.018	0.06	5.3	3.7	0.08	2850	3.51	0.02
ZZ61073		1.41	15.3	1.49	3.12	<0.05	0.02	0.07	0.023	0.06	4.4	2.7	0.07	687	2.45	0.02
ZZ61074		0.81	21.4	1.94	2.36	0.06	0.10	0.15	0.037	0.14	17.7	4.9	0.13	256	2.57	0.02
ZZ61075		0.68	22.3	1.86	2.29	0.11	0.06	0.27	0.040	0.09	44.5	4.4	0.12	961	2.06	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ61036		0.59	18.4	940	16.4	12.0	0.001	0.05	0.71	2.0	0.5	0.9	27.5	<0.01	0.07	1.0
ZZ61037		0.36	31.1	990	15.5	11.3	<0.001	0.07	1.26	3.4	1.5	0.4	53.3	<0.01	0.06	1.2
ZZ61038		0.57	25.2	990	13.9	12.4	<0.001	0.05	0.78	2.1	1.0	0.6	31.4	<0.01	0.04	0.8
ZZ61039		0.59	25.9	1010	15.7	11.1	<0.001	0.05	0.57	2.1	0.6	0.6	14.9	<0.01	0.05	0.6
ZZ61040		0.42	53.0	1300	14.8	9.1	<0.001	0.07	0.72	4.6	1.0	0.5	45.0	<0.01	0.07	1.1
ZZ61041		0.43	37.3	1130	20.6	12.6	<0.001	0.05	0.68	3.0	0.6	0.6	21.9	<0.01	0.05	1.2
ZZ61042		0.46	41.4	1130	20.0	10.7	<0.001	0.05	0.73	2.5	0.9	0.6	13.5	<0.01	0.05	1.0
ZZ61043		0.38	28.6	1360	15.6	12.4	<0.001	0.07	0.59	1.1	0.6	0.6	23.4	<0.01	0.04	0.3
ZZ61044		0.47	19.4	1050	13.8	9.4	<0.001	0.07	0.61	0.7	0.9	0.6	14.9	<0.01	0.04	0.2
ZZ61045		0.69	25.9	760	23.1	11.3	<0.001	0.04	0.60	2.3	0.5	0.8	9.1	<0.01	0.07	1.2
ZZ61046		0.38	25.9	1590	14.6	13.3	<0.001	0.07	0.42	1.4	0.8	0.6	8.3	<0.01	0.04	0.5
ZZ61047		0.06	46.1	340	13.1	9.1	<0.001	0.04	1.92	4.5	2.0	0.2	71.6	<0.01	0.02	3.8
ZZ61048		0.36	46.7	1240	22.5	10.8	0.001	0.09	1.55	2.7	2.2	0.4	36.1	<0.01	0.04	1.0
ZZ61049		0.17	59.3	970	22.1	8.0	0.001	0.09	2.66	2.8	2.7	0.3	54.8	<0.01	0.04	1.2
ZZ61050		0.12	41.1	1600	31.9	22.1	<0.001	0.16	1.91	0.5	2.0	0.5	43.8	<0.01	0.08	<0.2
ZZ61051		0.17	29.4	870	24.6	19.8	<0.001	0.10	2.14	0.8	2.0	0.6	28.3	<0.01	0.07	0.3
ZZ61052		0.16	23.4	1000	22.1	25.1	0.001	0.59	3.85	2.7	5.3	0.6	71.5	<0.01	0.17	2.8
ZZ61053		0.14	11.2	1060	20.6	23.2	0.004	0.67	6.16	2.9	9.1	0.6	117.0	<0.01	0.23	2.8
ZZ61054		0.29	13.0	1030	43.1	46.3	0.002	1.23	8.61	2.2	9.4	1.2	131.0	<0.01	0.28	1.5
ZZ61055		0.28	112.5	2420	65.4	9.6	0.007	0.18	3.50	6.8	10.4	0.6	345	<0.01	0.13	0.9
ZZ61056		0.25	93.4	970	22.8	6.1	0.002	0.09	2.39	2.9	6.3	0.6	35.7	<0.01	0.12	0.3
ZZ61057		0.10	39.8	2360	14.6	8.4	0.003	0.05	1.59	2.7	3.8	0.4	112.0	<0.01	0.10	1.7
ZZ61058		0.22	44.0	1240	9.0	4.1	<0.001	0.13	1.55	2.8	5.3	0.2	174.0	<0.01	0.08	0.7
ZZ61059		0.28	94.6	1950	11.2	6.5	0.003	0.19	2.32	4.2	12.7	0.4	198.0	<0.01	0.10	0.7
ZZ61060		0.51	72.7	740	13.1	8.1	0.003	0.09	1.62	3.1	9.0	0.5	81.4	<0.01	0.10	0.7
ZZ61061		0.16	53.6	910	14.0	9.9	0.001	0.30	1.38	4.5	6.0	0.4	153.5	<0.01	0.11	1.1
ZZ61062		0.37	29.0	2170	11.9	20.5	0.002	0.68	1.15	1.6	9.7	0.6	110.5	<0.01	0.22	0.4
ZZ61063		0.37	28.0	1400	15.3	7.6	0.001	0.08	0.98	0.3	2.1	0.6	20.0	<0.01	0.07	<0.2
ZZ61064		0.19	42.6	1670	7.9	9.9	0.002	0.04	1.03	0.6	4.5	0.5	13.4	<0.01	0.09	0.3
ZZ61065		0.41	35.3	1560	11.4	13.5	0.002	0.29	0.93	1.9	4.1	0.5	89.3	<0.01	0.07	0.3
ZZ61066		0.33	46.9	690	12.4	9.0	0.002	0.03	0.99	4.9	2.9	0.4	21.5	<0.01	0.12	1.5
ZZ61067		0.29	20.8	540	9.3	10.2	0.001	0.07	1.00	1.9	0.8	0.4	16.9	<0.01	0.13	0.9
ZZ61068		0.72	19.3	1010	14.5	10.0	<0.001	0.07	0.65	1.1	0.8	0.7	14.7	<0.01	0.06	0.2
ZZ61069		0.41	28.7	1150	12.7	6.1	0.001	0.13	0.85	2.2	2.7	0.4	34.2	0.01	0.10	0.5
ZZ61070		0.32	44.9	1870	8.1	6.3	0.002	0.10	0.81	1.7	2.1	0.3	32.5	<0.01	0.04	0.3
ZZ61071		0.45	45.3	1780	9.4	6.0	<0.001	0.13	0.84	0.8	2.2	0.3	76.1	<0.01	0.02	0.2
ZZ61072		0.42	66.9	1830	11.0	8.5	<0.001	0.13	1.31	1.1	2.5	0.4	20.8	<0.01	0.04	0.2
ZZ61073		0.55	22.8	1540	9.6	10.5	<0.001	0.16	0.80	0.9	1.1	0.5	39.0	<0.01	0.05	0.2
ZZ61074		0.33	36.4	1350	16.8	7.8	0.001	0.12	1.29	2.6	3.2	0.5	30.3	<0.01	0.16	1.2
ZZ61075		0.28	37.9	2370	20.1	6.2	0.002	0.13	1.07	1.9	8.2	0.4	36.6	<0.01	0.22	0.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ61036		0.007	0.32	0.56	56	0.11	3.11	91	0.8
ZZ61037		0.005	0.28	1.47	45	0.09	20.0	135	1.1
ZZ61038		0.014	0.20	1.54	49	0.18	10.55	120	0.5
ZZ61039		0.014	0.19	0.87	44	0.21	7.11	88	<0.5
ZZ61040		0.007	0.35	0.77	39	0.09	13.00	124	1.3
ZZ61041		0.007	0.36	0.82	46	0.10	4.27	103	1.3
ZZ61042		0.006	0.31	0.65	47	0.11	4.32	103	0.9
ZZ61043		0.009	0.72	0.73	51	0.25	4.14	100	<0.5
ZZ61044		0.014	0.19	0.77	48	0.29	4.03	63	<0.5
ZZ61045		0.010	0.23	0.59	50	0.13	3.17	147	0.7
ZZ61046		0.005	0.28	0.82	48	0.08	4.37	98	0.7
ZZ61047		<0.005	0.92	1.99	56	<0.05	21.4	245	1.0
ZZ61048		0.007	1.00	1.40	73	0.08	29.3	408	1.1
ZZ61049		<0.005	1.65	2.36	68	0.07	22.9	603	1.2
ZZ61050		<0.005	1.07	2.01	64	0.07	15.50	253	<0.5
ZZ61051		0.005	0.51	0.61	66	0.08	3.19	200	<0.5
ZZ61052		<0.005	0.84	1.47	62	0.05	6.77	188	<0.5
ZZ61053		<0.005	1.34	2.46	78	0.05	6.75	107	<0.5
ZZ61054		0.007	3.13	1.22	123	0.08	4.65	90	0.5
ZZ61055		0.006	0.85	11.20	131	0.19	33.8	665	1.5
ZZ61056		0.005	0.47	1.84	92	0.19	10.65	322	0.9
ZZ61057		<0.005	0.29	3.39	63	0.06	15.60	138	0.6
ZZ61058		<0.005	0.44	5.33	43	0.15	33.0	151	2.1
ZZ61059		<0.005	0.31	4.02	66	0.08	33.1	312	2.0
ZZ61060		0.010	0.24	1.62	65	0.12	12.95	224	0.6
ZZ61061		<0.005	0.59	1.96	60	<0.05	25.0	163	1.0
ZZ61062		0.006	0.50	2.29	61	0.10	4.28	97	<0.5
ZZ61063		0.009	0.25	1.71	75	0.19	7.11	97	<0.5
ZZ61064		<0.005	0.18	2.71	58	<0.05	17.40	131	0.5
ZZ61065		0.010	0.22	2.04	50	0.13	11.55	136	<0.5
ZZ61066		0.007	0.12	1.61	47	0.10	31.0	143	1.5
ZZ61067		0.005	0.12	0.59	31	0.07	3.68	91	<0.5
ZZ61068		0.019	0.26	1.08	64	0.21	7.27	88	<0.5
ZZ61069		0.009	0.19	2.02	43	0.10	37.6	124	0.9
ZZ61070		0.006	0.27	2.54	38	0.10	42.3	205	1.0
ZZ61071		0.008	0.14	0.89	33	0.11	53.8	162	0.7
ZZ61072		0.009	2.93	1.58	67	0.12	13.20	335	0.5
ZZ61073		0.011	0.17	0.95	33	0.08	4.41	145	0.6
ZZ61074		<0.005	0.65	2.05	44	0.09	40.4	213	2.7
ZZ61075		<0.005	0.43	1.73	43	0.09	93.3	286	1.2



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**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ61076		0.26	0.010	0.14	0.84	59.7	<0.2	<10	370	0.44	0.16	3.90	2.88	12.95	6.9	15
ZZ61077		0.26	0.002	0.34	0.82	54.4	<0.2	<10	710	0.53	0.21	2.70	2.34	18.20	9.4	21
ZZ61078		0.19	0.007	0.14	0.30	20.9	<0.2	<10	330	0.18	0.06	4.05	0.82	11.45	2.9	12
ZZ61079		0.34	<0.001	0.16	1.01	114.5	<0.2	<10	320	0.92	0.25	0.68	1.11	23.1	14.5	28
ZZ61080		0.32	0.003	1.32	0.56	17.8	<0.2	<10	500	0.44	0.23	1.70	0.77	17.25	6.0	17
ZZ61081		0.21	0.002	0.19	0.68	54.3	<0.2	<10	550	0.54	0.19	3.63	1.53	12.20	7.0	14
ZZ61082		0.40	0.005	0.73	0.47	104.0	<0.2	<10	710	0.67	0.18	1.37	0.73	7.38	6.8	40
ZZ61083		0.32	0.002	0.56	0.51	65.8	<0.2	<10	830	0.46	0.18	0.66	0.28	7.55	4.9	16
ZZ61084		0.26	0.002	0.34	0.29	34.4	<0.2	<10	320	0.24	0.15	0.17	0.54	7.29	3.9	17
ZZ61085		0.24	0.003	0.47	0.46	24.4	<0.2	<10	260	0.23	0.16	0.15	0.41	7.68	3.9	20
ZZ61086		0.25	<0.001	0.48	0.79	32.9	<0.2	<10	700	0.41	0.20	0.05	0.46	10.20	4.3	24
ZZ61087		0.32	0.002	0.55	0.82	23.9	<0.2	<10	860	0.37	0.17	0.11	0.52	9.67	3.3	23
ZZ61088		0.39	0.004	1.36	0.76	39.1	<0.2	<10	1380	0.58	0.17	0.62	1.66	13.30	6.2	24
ZZ61089		0.22	0.003	0.33	1.09	82.7	<0.2	<10	250	0.64	0.22	0.37	1.95	23.1	8.2	21
ZZ61090		0.23	0.008	0.96	0.77	199.5	<0.2	<10	320	0.49	0.16	0.42	4.99	16.45	8.1	21
ZZ61091		0.28	0.004	0.93	0.89	242	<0.2	<10	270	0.37	0.25	0.41	3.57	15.25	7.0	26
ZZ61092		0.25	0.002	1.24	0.85	470	<0.2	<10	490	0.83	0.15	3.31	14.05	25.0	9.5	20
ZZ61093		0.34	0.001	0.71	0.60	69.3	<0.2	<10	170	0.93	0.21	6.53	4.68	34.2	11.1	13
ZZ61094		0.20	0.003	1.09	0.55	67.2	<0.2	<10	180	0.64	0.14	4.01	10.25	36.4	7.6	11
ZZ61095		0.23	0.001	0.21	1.11	23.8	<0.2	<10	300	0.70	0.26	1.25	6.97	24.4	9.6	17
ZZ61096		0.24	0.002	0.61	0.73	44.2	<0.2	<10	190	0.67	0.17	2.10	3.20	20.1	8.0	11
ZZ61097		0.30	0.001	0.47	0.92	13.8	<0.2	<10	290	0.81	0.21	1.81	1.77	35.1	9.5	13
ZZ61098		0.34	0.002	0.34	1.40	22.0	<0.2	<10	300	0.96	0.27	0.95	1.07	38.4	11.4	21
ZZ61099		0.24	0.001	0.31	1.87	20.7	<0.2	<10	320	0.97	0.31	0.90	0.46	24.7	9.5	22
ZZ61100		0.33	0.035	0.32	1.47	19.7	<0.2	<10	270	1.04	0.29	1.51	2.95	24.5	8.8	19
ZZ61101		0.29	0.002	0.55	1.33	18.0	<0.2	<10	290	1.00	0.24	1.50	3.61	57.0	11.0	18
ZZ61102		0.36	0.001	0.30	1.23	17.2	<0.2	<10	280	0.77	0.24	1.10	1.02	33.5	9.1	18
ZZ61103		0.27	0.001	0.06	1.78	11.5	<0.2	<10	530	1.12	0.20	0.77	0.13	39.6	9.9	18
ZZ61104		0.23	<0.001	0.32	0.80	7.2	<0.2	10	320	1.33	0.21	2.06	0.19	28.2	14.0	15
ZZ61105		0.23	0.002	0.17	0.46	68.0	<0.2	<10	150	1.03	0.40	0.29	0.23	8.13	18.4	11
ZZ61106		0.25	0.004	0.18	1.05	6.5	<0.2	<10	220	0.94	0.29	0.36	0.24	37.7	19.1	15
ZZ61107		0.28	0.003	0.09	1.56	4.2	<0.2	<10	150	1.33	0.27	0.37	0.14	39.0	14.4	19
ZZ61108		0.33	0.002	0.14	1.23	6.7	<0.2	<10	180	0.91	0.24	1.45	0.24	18.95	9.2	17
ZZ61109		0.31	0.002	0.05	1.65	12.6	<0.2	<10	160	0.62	0.36	0.13	0.10	15.45	8.6	23
ZZ61110		0.34	0.002	0.03	1.83	59.7	<0.2	<10	140	1.01	0.37	0.10	0.16	22.5	21.3	28
ZZ61111		0.24	0.002	0.04	1.79	22.9	<0.2	<10	180	0.75	0.38	0.26	0.18	18.45	19.5	31
ZZ61112		0.28	0.003	0.08	1.42	18.2	<0.2	<10	300	0.87	0.34	0.37	0.30	17.95	16.9	26
ZZ61113		0.22	0.001	0.26	1.88	15.8	<0.2	<10	460	1.22	0.30	0.95	0.32	19.25	14.0	24
ZZ61114		0.26	0.002	0.18	2.11	37.1	<0.2	<10	440	1.15	0.34	0.41	0.25	16.25	12.3	30
ZZ61115		0.27	0.004	0.29	2.16	38.1	<0.2	<10	520	1.25	0.32	0.58	0.14	23.5	13.0	29



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ61076		0.76	16.1	1.37	2.35	0.06	0.03	0.20	0.023	0.05	21.7	4.4	0.13	661	1.04	0.02
ZZ61077		0.48	25.2	1.97	2.41	0.09	0.03	0.10	0.031	0.06	30.1	6.2	0.16	574	1.25	0.04
ZZ61078		0.36	12.3	0.82	0.91	<0.05	0.03	0.11	0.013	0.03	14.8	1.5	0.04	264	1.05	0.02
ZZ61079		1.20	37.8	2.95	3.12	0.06	0.10	0.29	0.037	0.09	17.8	8.5	0.12	783	3.94	0.01
ZZ61080		1.41	27.1	2.12	1.88	<0.05	0.04	0.19	0.034	0.06	11.6	3.1	0.08	273	1.32	0.03
ZZ61081		0.81	17.7	1.43	1.95	<0.05	0.04	0.19	0.023	0.05	15.6	3.8	0.09	839	1.74	0.03
ZZ61082		3.46	34.1	2.72	1.37	<0.05	0.04	0.20	0.039	0.10	5.0	2.7	0.05	115	5.56	0.03
ZZ61083		1.42	25.4	1.57	2.11	<0.05	0.03	0.12	0.029	0.06	4.6	2.8	0.05	111	2.17	0.04
ZZ61084		1.56	24.1	1.83	1.90	<0.05	<0.02	0.04	0.022	0.08	4.0	1.0	0.02	93	4.32	0.02
ZZ61085		1.52	21.0	1.70	2.68	<0.05	<0.02	0.03	0.021	0.06	4.2	1.1	0.03	46	4.07	0.01
ZZ61086		1.48	23.4	2.41	3.09	<0.05	<0.02	0.09	0.027	0.07	5.9	4.0	0.09	76	4.40	0.03
ZZ61087		1.06	18.2	1.75	3.05	<0.05	<0.02	0.08	0.022	0.05	5.4	4.0	0.08	68	3.69	0.04
ZZ61088		0.92	31.1	2.39	2.50	<0.05	0.02	0.14	0.027	0.06	7.7	5.9	0.15	231	5.28	0.06
ZZ61089		0.83	20.9	3.40	3.75	<0.05	0.04	0.13	0.033	0.08	10.1	10.9	0.23	410	3.70	0.01
ZZ61090		1.52	26.9	2.67	3.01	<0.05	0.05	0.74	0.031	0.09	8.5	5.7	0.11	185	10.55	0.01
ZZ61091		1.10	22.2	2.77	4.77	<0.05	<0.02	0.44	0.033	0.10	8.5	7.8	0.16	237	14.50	0.01
ZZ61092		0.50	23.2	2.64	2.61	<0.05	0.04	0.61	0.027	0.07	15.8	3.7	0.17	388	11.10	0.03
ZZ61093		0.26	23.0	2.83	1.86	0.05	0.06	0.06	0.033	0.15	21.1	3.3	2.73	334	9.33	0.02
ZZ61094		0.49	20.6	1.98	1.82	0.11	0.08	0.10	0.025	0.08	27.2	2.5	0.31	338	5.66	0.01
ZZ61095		0.35	13.6	2.77	3.86	0.08	0.04	0.03	0.032	0.09	13.4	5.0	0.15	681	2.50	0.01
ZZ61096		0.30	20.2	2.19	2.33	0.09	0.07	0.08	0.028	0.08	14.6	4.4	0.13	286	3.08	0.01
ZZ61097		0.30	25.4	2.69	2.49	0.07	0.05	0.10	0.038	0.10	19.6	7.2	0.19	388	3.43	0.01
ZZ61098		0.72	22.1	3.38	3.93	0.06	0.04	0.06	0.039	0.10	18.3	10.3	0.30	551	2.30	0.01
ZZ61099		1.41	20.4	3.43	5.50	<0.05	0.08	0.05	0.043	0.11	10.8	13.0	0.26	461	2.40	0.01
ZZ61100		0.92	21.5	3.03	4.26	0.05	0.08	0.06	0.035	0.10	14.7	7.9	0.20	522	3.63	0.01
ZZ61101		1.11	25.7	3.13	3.39	0.07	0.06	0.08	0.043	0.11	20.9	9.4	0.21	420	4.78	0.01
ZZ61102		0.57	17.6	3.04	3.75	0.06	0.05	0.05	0.040	0.10	18.1	7.5	0.14	604	2.95	0.01
ZZ61103		0.83	11.0	4.84	6.47	0.05	0.04	0.03	0.060	0.12	13.1	13.5	0.19	677	1.37	0.02
ZZ61104		0.76	24.1	3.48	2.10	0.08	0.09	0.07	0.052	0.20	14.1	7.4	0.22	377	1.86	0.01
ZZ61105		1.64	33.2	4.10	1.26	<0.05	0.04	0.03	0.048	0.15	3.1	2.5	0.06	311	0.89	<0.01
ZZ61106		2.83	25.0	3.25	3.26	0.08	0.04	0.07	0.036	0.19	13.0	16.6	0.24	1200	0.92	0.01
ZZ61107		2.28	23.9	2.84	3.92	0.07	0.06	0.02	0.045	0.15	9.4	22.1	0.47	1060	0.32	<0.01
ZZ61108		1.05	21.5	2.58	3.28	0.06	0.04	0.06	0.031	0.10	11.8	12.7	0.27	1210	0.60	0.01
ZZ61109		3.44	22.4	3.25	6.12	<0.05	<0.02	0.03	0.031	0.11	8.1	14.1	0.24	708	1.55	<0.01
ZZ61110		2.18	48.0	4.74	5.42	0.05	0.04	0.11	0.052	0.08	8.9	30.1	0.53	841	0.99	<0.01
ZZ61111		3.10	32.0	4.12	6.18	<0.05	0.03	0.04	0.044	0.12	8.0	29.0	0.48	857	1.29	0.01
ZZ61112		3.38	29.8	3.18	5.54	<0.05	0.02	0.06	0.036	0.11	8.3	18.4	0.36	707	1.18	0.01
ZZ61113		4.59	27.5	2.86	6.09	0.07	0.05	0.14	0.040	0.10	9.7	16.2	0.28	1380	0.96	0.02
ZZ61114		4.59	44.3	3.98	6.63	0.07	0.04	0.19	0.042	0.16	9.8	21.8	0.40	749	1.10	0.02
ZZ61115		4.25	34.5	3.60	6.86	0.09	0.05	0.24	0.044	0.11	13.5	21.5	0.39	818	1.11	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ61076		0.42	19.2	1620	11.2	5.5	<0.001	0.22	0.65	0.8	1.7	0.3	30.3	<0.01	0.10	0.2
ZZ61077		0.32	30.0	1490	14.4	5.2	0.001	0.15	0.81	1.0	3.3	0.4	30.4	0.01	0.20	0.3
ZZ61078		0.23	10.5	1420	5.9	2.3	<0.001	0.19	0.32	0.5	1.6	<0.2	49.1	<0.01	0.05	0.2
ZZ61079		0.29	60.9	900	27.6	7.8	0.001	0.06	1.61	5.3	4.6	0.5	19.5	<0.01	0.14	2.3
ZZ61080		0.33	36.0	1160	13.4	6.5	0.001	0.12	1.07	2.3	3.2	0.4	26.6	<0.01	0.11	0.6
ZZ61081		0.36	19.7	1910	13.4	4.8	0.001	0.21	0.89	0.9	2.0	0.3	53.2	<0.01	0.13	0.2
ZZ61082		0.24	79.9	970	11.1	9.0	0.001	0.17	1.77	4.2	2.7	0.4	57.9	<0.01	0.15	1.1
ZZ61083		0.33	35.7	680	9.5	8.3	0.001	0.06	0.86	2.8	2.3	0.4	38.0	<0.01	0.09	0.9
ZZ61084		0.25	34.4	1180	11.1	10.0	0.001	0.12	1.13	0.8	2.3	0.5	38.9	<0.01	0.10	<0.2
ZZ61085		0.21	31.6	1530	9.3	10.3	0.001	0.08	0.94	0.1	2.5	0.6	24.3	<0.01	0.10	<0.2
ZZ61086		0.21	35.4	1640	13.0	8.7	0.001	0.09	1.07	0.2	3.3	0.5	31.9	<0.01	0.11	<0.2
ZZ61087		0.31	26.9	1050	10.4	8.9	0.001	0.05	0.69	0.5	2.3	0.4	29.6	<0.01	0.09	<0.2
ZZ61088		0.29	54.7	1550	13.2	7.2	0.001	0.06	1.49	2.3	3.4	0.4	73.8	<0.01	0.10	0.5
ZZ61089		0.43	27.0	1230	45.3	8.3	0.002	0.08	1.55	2.5	2.1	0.5	18.9	<0.01	0.03	1.0
ZZ61090		0.36	55.8	1220	149.5	9.0	0.002	0.06	4.78	2.8	2.7	0.5	28.1	<0.01	0.09	1.2
ZZ61091		0.51	33.8	670	256	9.9	0.001	0.05	6.16	2.2	3.1	0.7	25.9	<0.01	0.14	1.0
ZZ61092		0.37	95.9	1470	50.1	7.1	<0.001	0.14	4.09	2.5	2.4	0.4	79.5	<0.01	0.03	0.4
ZZ61093		0.23	52.9	700	16.4	5.9	<0.001	0.05	4.65	3.4	1.7	0.3	94.6	<0.01	0.04	1.7
ZZ61094		0.21	39.7	2010	12.2	7.1	0.001	0.15	5.04	1.8	2.8	0.2	85.0	0.01	0.04	0.7
ZZ61095		0.52	22.2	890	16.5	15.9	<0.001	0.05	1.17	2.7	0.7	0.5	58.6	<0.01	0.03	0.9
ZZ61096		0.27	39.7	1160	12.2	9.1	0.001	0.12	1.98	2.0	1.7	0.3	49.9	0.01	0.03	0.8
ZZ61097		0.24	37.6	1140	14.7	9.1	0.001	0.11	2.15	2.1	1.8	0.3	35.4	<0.01	0.02	0.9
ZZ61098		0.50	33.4	720	23.1	11.2	<0.001	0.05	1.00	3.3	0.9	0.5	50.1	<0.01	0.02	1.4
ZZ61099		0.53	25.1	1830	23.9	20.4	<0.001	0.09	0.80	3.0	0.7	0.7	30.6	<0.01	0.03	1.5
ZZ61100		0.47	30.4	2060	21.1	16.3	0.001	0.14	2.30	2.8	1.2	0.6	36.6	<0.01	0.03	1.2
ZZ61101		0.39	41.9	1260	21.7	11.5	<0.001	0.09	2.73	3.2	1.8	0.5	42.6	<0.01	0.04	1.3
ZZ61102		0.41	27.6	1610	16.8	13.8	<0.001	0.10	1.18	2.3	0.8	0.5	34.6	<0.01	0.04	1.0
ZZ61103		0.70	15.0	1480	15.5	12.1	<0.001	0.08	0.32	2.4	0.6	1.0	26.0	<0.01	0.02	1.5
ZZ61104		0.32	45.2	830	16.9	9.5	<0.001	0.07	0.37	5.3	1.0	0.6	66.4	<0.01	0.04	2.3
ZZ61105		0.13	50.1	890	31.2	9.9	0.001	0.04	0.30	4.1	0.6	0.4	36.6	<0.01	0.24	1.0
ZZ61106		0.32	33.0	600	27.4	15.5	<0.001	0.03	0.49	6.1	0.7	0.5	14.0	<0.01	0.02	4.5
ZZ61107		0.25	25.0	370	24.0	13.9	<0.001	0.02	0.29	6.2	0.6	0.5	12.2	<0.01	0.01	5.5
ZZ61108		0.35	19.3	970	15.4	10.5	<0.001	0.08	0.36	2.9	0.6	0.4	26.1	<0.01	0.02	1.0
ZZ61109		0.82	16.3	630	15.7	18.9	<0.001	0.04	0.50	1.6	0.2	0.8	7.4	<0.01	0.05	0.6
ZZ61110		0.59	34.0	470	25.0	12.9	<0.001	0.02	0.41	5.0	0.5	0.6	9.6	<0.01	0.08	3.2
ZZ61111		0.90	28.7	610	23.4	17.8	0.001	0.03	0.45	3.7	0.3	0.8	13.9	<0.01	0.05	1.9
ZZ61112		0.83	23.1	770	20.1	18.2	<0.001	0.04	0.43	4.2	0.5	0.7	18.4	<0.01	0.04	1.7
ZZ61113		0.70	17.7	1570	18.5	23.5	<0.001	0.11	0.30	4.9	1.3	0.8	32.4	<0.01	0.05	1.0
ZZ61114		0.55	23.1	1360	20.1	30.2	<0.001	0.07	0.32	4.4	0.9	1.0	18.6	<0.01	0.06	1.0
ZZ61115		0.68	21.7	1650	20.6	22.7	<0.001	0.09	0.35	5.0	1.0	0.8	26.1	<0.01	0.05	1.3

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**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ61076		0.006	0.19	1.76	29	0.07	42.4	189	0.9
ZZ61077		0.005	0.15	0.76	37	0.09	59.1	202	0.7
ZZ61078		<0.005	0.12	1.96	13	<0.05	24.8	85	1.0
ZZ61079		<0.005	0.90	1.62	69	0.10	43.7	208	2.4
ZZ61080		0.006	0.29	1.57	36	0.07	21.1	139	1.2
ZZ61081		0.007	0.24	1.38	33	0.06	29.6	182	1.1
ZZ61082		<0.005	0.74	0.95	36	0.12	17.65	244	1.8
ZZ61083		<0.005	0.39	1.60	37	0.18	9.37	117	1.0
ZZ61084		<0.005	0.18	1.03	41	0.11	3.55	151	<0.5
ZZ61085		<0.005	0.17	1.06	48	0.10	2.58	127	<0.5
ZZ61086		<0.005	0.22	1.54	58	0.10	9.79	144	<0.5
ZZ61087		0.005	0.19	1.42	53	0.09	7.12	98	<0.5
ZZ61088		0.007	0.24	2.30	60	0.12	22.1	225	0.6
ZZ61089		0.006	0.32	1.89	87	0.09	10.00	270	1.2
ZZ61090		<0.005	0.91	1.83	160	0.14	10.80	536	1.2
ZZ61091		0.008	2.26	1.92	362	0.30	6.35	503	<0.5
ZZ61092		0.005	0.44	3.80	168	0.25	23.5	952	0.9
ZZ61093		<0.005	0.55	1.83	94	0.07	23.6	369	1.6
ZZ61094		<0.005	0.30	3.08	96	0.14	34.2	416	1.8
ZZ61095		0.010	0.20	1.47	80	0.12	10.30	203	0.8
ZZ61096		<0.005	0.36	3.27	47	0.10	18.80	292	1.6
ZZ61097		<0.005	0.21	2.44	57	0.07	18.35	179	1.3
ZZ61098		0.008	0.24	1.63	54	0.12	13.80	162	1.0
ZZ61099		0.005	0.31	1.19	59	0.10	8.74	124	1.8
ZZ61100		0.006	0.37	2.67	71	0.09	14.85	241	1.9
ZZ61101		<0.005	0.46	2.82	60	0.08	19.85	236	1.5
ZZ61102		0.005	0.26	1.10	64	0.07	13.85	146	1.1
ZZ61103		0.005	0.12	0.41	42	0.08	5.84	65	1.1
ZZ61104		<0.005	0.19	0.56	24	<0.05	15.15	91	4.3
ZZ61105		<0.005	0.09	0.59	14	<0.05	5.53	69	1.0
ZZ61106		0.007	0.16	0.62	23	<0.05	16.75	89	1.2
ZZ61107		<0.005	0.14	0.52	19	0.05	10.35	68	1.4
ZZ61108		0.006	0.09	0.76	24	0.08	13.85	66	1.0
ZZ61109		0.014	0.19	0.61	45	0.20	3.79	62	<0.5
ZZ61110		0.008	0.38	0.70	45	0.13	5.06	81	1.4
ZZ61111		0.014	0.20	0.76	50	0.21	4.06	91	0.8
ZZ61112		0.013	0.17	0.94	42	0.23	6.98	73	0.6
ZZ61113		0.006	0.26	1.49	40	0.19	19.30	54	1.1
ZZ61114		0.005	0.46	1.30	52	0.19	18.35	108	0.9
ZZ61115		0.007	0.53	1.56	53	0.23	20.7	86	1.2

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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ61116		0.28	0.002	0.07	1.54	64.3	<0.2	<10	210	0.89	0.43	0.27	0.19	23.0	15.7	21
ZZ61117		0.24	0.002	0.09	1.62	23.8	<0.2	<10	160	0.76	0.36	0.46	0.21	27.1	9.8	24
ZZ61118		0.29	0.004	0.10	2.01	21.7	<0.2	<10	260	0.77	0.31	0.41	0.12	27.2	12.3	30
ZZ61119		0.29	0.001	0.03	2.27	15.2	<0.2	<10	130	0.55	0.33	0.04	0.15	24.8	14.0	31
ZZ61120		0.25	0.003	0.04	2.90	23.3	<0.2	<10	90	1.03	0.31	0.03	0.29	22.5	31.7	41
ZZ61121		0.32	0.003	0.04	2.21	21.3	<0.2	<10	140	0.94	0.31	0.12	0.30	30.7	21.1	31
ZZ61122		0.25	0.002	0.31	0.83	96.7	<0.2	<10	150	0.51	0.13	6.44	0.61	12.70	6.6	12
ZZ61123		0.24	0.003	0.13	1.26	26.3	<0.2	<10	190	0.61	0.21	2.08	0.25	15.95	10.5	20
ZZ61124		0.23	0.006	0.03	0.75	29.6	<0.2	<10	100	0.74	0.25	0.27	0.40	58.8	9.8	19
ZZ61125		0.27	0.005	0.06	0.72	83.3	<0.2	10	160	0.92	0.22	2.16	0.23	49.8	11.5	26
ZZ61126		0.42	0.002	0.08	0.88	108.0	<0.2	10	100	1.29	0.38	1.60	0.21	22.5	16.2	21
ZZ61127		0.21	0.006	0.10	0.99	26.5	<0.2	10	200	0.72	0.22	2.20	0.24	12.55	8.9	16
ZZ61128		0.39	0.003	0.40	1.36	27.9	<0.2	10	140	0.86	0.34	1.25	0.32	20.1	18.1	20
ZZ61129		0.23	0.003	0.16	1.16	22.0	<0.2	10	240	0.75	0.22	3.46	0.42	15.55	13.3	15
ZZ61130		0.31	0.002	0.14	1.45	37.9	<0.2	<10	180	1.02	0.29	1.09	0.29	19.50	18.7	22
ZZ61131		0.19	0.003	0.06	1.40	17.9	<0.2	<10	210	0.54	0.29	1.48	0.28	17.35	14.1	23
ZZ61132		0.21	0.005	0.30	1.06	61.4	<0.2	10	260	0.99	0.27	2.57	0.62	18.30	16.3	17
ZZ61133		0.32	0.003	0.05	1.77	45.8	<0.2	<10	140	0.90	0.31	0.18	0.19	24.6	21.0	26
ZZ61134		0.21	0.003	0.07	1.68	48.3	<0.2	<10	170	1.01	0.28	0.91	0.28	20.5	17.5	24
ZZ61135		0.20	0.002	0.13	1.05	23.7	<0.2	10	130	1.01	0.30	1.64	0.27	21.5	18.9	16
ZZ61136		0.32	0.002	0.13	1.07	20.8	<0.2	10	160	1.22	0.31	1.26	0.22	19.60	19.5	17
ZZ61137		0.18	0.004	0.12	1.15	15.0	<0.2	10	280	0.92	0.23	1.55	0.34	19.65	15.6	18
ZZ61138		0.30	0.004	0.14	1.17	130.0	<0.2	<10	130	1.16	0.34	1.23	0.24	21.8	17.6	20
ZZ61139		0.22	0.005	0.15	1.28	30.3	<0.2	<10	210	0.95	0.26	1.45	0.18	16.40	13.6	19
ZZ61140		0.29	0.003	0.18	1.13	42.4	<0.2	<10	190	1.02	0.28	1.70	0.21	21.5	12.6	19
ZZ61141		0.22	0.003	0.14	1.18	35.5	<0.2	<10	230	0.97	0.27	1.13	0.17	14.85	11.5	18
ZZ61142		0.24	0.001	0.34	0.67	209	<0.2	<10	110	0.85	0.10	12.35	0.61	11.65	5.9	9
ZZ61143		0.31	0.002	0.86	0.87	396	<0.2	<10	100	0.90	0.14	10.10	2.59	17.40	7.7	12
ZZ61144		0.26	0.002	0.14	1.26	104.0	<0.2	<10	110	1.08	0.27	3.81	0.30	36.7	13.2	18
ZZ61145		0.29	0.003	0.07	1.39	40.8	<0.2	<10	130	0.66	0.28	0.39	0.22	29.6	9.9	22

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ61116		2.59	27.8	4.29	5.31	<0.05	0.03	0.19	0.045	0.10	9.8	19.6	0.27	815	1.11	0.01
ZZ61117		2.68	24.6	3.40	6.44	<0.05	0.02	0.07	0.036	0.10	12.4	21.7	0.28	411	1.22	0.01
ZZ61118		4.55	31.1	3.55	6.06	0.05	0.06	0.15	0.039	0.10	14.0	26.8	0.55	505	0.96	0.01
ZZ61119		2.87	33.6	4.89	7.48	0.05	0.05	0.03	0.047	0.08	12.5	38.6	0.57	445	1.01	<0.01
ZZ61120		4.99	101.0	6.35	7.37	0.05	0.07	0.08	0.077	0.10	9.5	47.9	0.95	1100	0.87	<0.01
ZZ61121		2.40	61.9	4.63	5.74	0.05	0.06	0.06	0.054	0.09	13.1	35.2	0.63	784	0.94	<0.01
ZZ61122		0.80	21.5	1.96	2.01	<0.05	0.03	0.99	0.018	0.05	6.3	7.5	2.61	1540	0.91	0.01
ZZ61123		0.91	30.8	2.78	3.59	<0.05	0.05	0.38	0.029	0.07	7.8	16.3	0.52	540	0.75	0.01
ZZ61124		3.82	27.0	2.79	3.67	0.08	0.02	0.05	0.034	0.10	27.2	8.8	0.14	366	0.61	<0.01
ZZ61125		5.85	42.5	2.88	2.78	0.08	0.10	0.11	0.035	0.11	27.2	11.9	0.89	465	0.62	0.01
ZZ61126		5.88	49.2	3.63	2.74	0.07	0.09	0.10	0.050	0.12	12.5	15.2	0.34	297	0.57	0.01
ZZ61127		1.51	36.8	2.67	2.56	<0.05	0.05	0.11	0.029	0.08	7.0	12.4	0.55	423	0.59	0.01
ZZ61128		1.15	76.1	4.46	3.85	0.06	0.06	0.18	0.046	0.11	10.0	23.8	0.56	675	0.97	0.01
ZZ61129		1.52	59.6	2.94	2.98	0.06	0.05	0.24	0.037	0.08	9.3	11.9	0.28	592	0.78	0.01
ZZ61130		1.06	74.2	4.20	4.80	<0.05	0.07	0.22	0.047	0.08	7.8	25.9	0.61	481	0.87	0.02
ZZ61131		1.32	30.0	3.22	6.52	<0.05	0.03	0.09	0.043	0.05	6.6	16.8	0.37	422	1.05	0.02
ZZ61132		0.96	70.5	3.23	3.52	<0.05	0.06	0.48	0.049	0.09	8.5	12.7	0.29	416	1.05	0.02
ZZ61133		1.71	66.9	4.77	6.66	0.05	0.07	0.14	0.051	0.06	9.1	31.2	0.58	594	1.07	0.01
ZZ61134		1.44	67.8	4.46	5.69	<0.05	0.07	0.20	0.046	0.08	8.8	26.1	0.56	387	0.89	0.01
ZZ61135		0.99	58.0	3.87	3.45	0.05	0.07	0.14	0.048	0.09	9.4	17.3	0.35	438	0.80	0.01
ZZ61136		0.94	61.1	3.83	3.81	<0.05	0.05	0.15	0.053	0.08	8.8	18.5	0.34	735	0.95	0.01
ZZ61137		1.13	46.7	2.86	3.95	<0.05	0.06	0.15	0.034	0.07	7.5	21.1	0.58	859	0.74	0.02
ZZ61138		5.26	74.5	4.35	4.28	<0.05	0.07	0.20	0.044	0.08	9.6	26.0	0.68	586	1.21	0.02
ZZ61139		2.22	42.0	3.07	4.38	<0.05	0.05	0.18	0.034	0.07	7.1	19.8	0.45	484	0.83	0.01
ZZ61140		2.09	40.1	3.36	3.75	<0.05	0.07	0.18	0.043	0.08	10.5	17.7	0.34	339	0.77	0.02
ZZ61141		4.87	40.0	2.92	3.84	<0.05	0.07	0.18	0.036	0.10	6.9	18.4	0.47	288	0.71	0.01
ZZ61142		1.11	17.0	1.97	2.08	<0.05	0.03	3.45	0.016	0.04	6.4	9.1	7.67	2630	0.70	0.02
ZZ61143		0.91	19.4	4.29	2.84	<0.05	0.05	10.35	0.026	0.04	10.5	11.7	6.11	3450	0.63	0.02
ZZ61144		1.00	25.2	3.87	4.20	0.05	0.08	2.38	0.038	0.07	14.4	20.5	2.24	1560	0.69	0.02
ZZ61145		1.98	20.8	3.31	5.91	<0.05	0.02	0.52	0.033	0.05	11.5	18.9	0.38	679	1.14	0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ61116		0.47	24.1	520	31.3	16.0	<0.001	0.02	0.24	4.3	<0.2	0.8	17.0	<0.01	0.05	3.3
ZZ61117		0.81	20.8	440	20.7	16.0	<0.001	0.02	0.31	3.7	0.5	0.8	16.4	<0.01	0.03	2.7
ZZ61118		0.78	25.9	780	18.0	14.6	<0.001	0.03	0.40	5.5	0.7	0.6	21.4	<0.01	0.04	2.6
ZZ61119		0.94	24.5	250	18.5	12.7	<0.001	0.01	0.34	4.6	<0.2	0.7	7.1	<0.01	0.09	3.5
ZZ61120		0.35	45.9	420	18.2	13.4	<0.001	0.02	0.35	8.7	0.7	0.6	6.9	<0.01	0.13	3.6
ZZ61121		0.55	39.9	550	19.9	11.8	<0.001	0.01	0.42	6.7	0.7	0.5	11.8	<0.01	0.08	4.4
ZZ61122		0.28	14.2	1650	20.4	5.1	<0.001	0.13	0.34	1.3	0.9	0.2	43.4	<0.01	0.03	0.4
ZZ61123		0.51	23.3	870	12.5	6.5	<0.001	0.10	0.48	2.8	0.6	0.4	35.0	<0.01	0.04	0.7
ZZ61124		0.45	22.4	370	11.5	11.3	<0.001	0.02	0.16	3.9	0.8	0.6	11.5	<0.01	0.03	3.9
ZZ61125		0.32	29.4	880	15.7	10.8	<0.001	0.07	0.31	7.4	2.1	0.4	63.0	<0.01	0.02	4.5
ZZ61126		0.20	50.1	550	22.1	15.2	<0.001	0.05	0.33	9.2	1.0	0.5	58.1	<0.01	0.05	5.0
ZZ61127		0.30	23.8	920	13.5	6.7	<0.001	0.18	0.41	3.0	1.1	0.3	124.0	<0.01	0.04	0.7
ZZ61128		0.20	35.0	660	24.0	7.3	0.001	0.08	0.58	8.1	1.2	0.4	64.3	<0.01	0.08	2.2
ZZ61129		0.26	25.0	1050	17.6	7.5	<0.001	0.15	0.64	3.2	1.6	0.4	207	<0.01	0.06	0.4
ZZ61130		0.23	33.1	470	20.7	5.8	<0.001	0.05	0.70	9.0	0.9	0.4	56.7	<0.01	0.13	1.9
ZZ61131		1.01	20.8	540	19.0	8.6	<0.001	0.05	0.52	4.4	0.8	0.7	108.5	<0.01	0.10	1.5
ZZ61132		0.20	29.7	1100	55.7	5.7	0.001	0.10	1.59	6.0	1.9	0.5	168.0	<0.01	0.08	0.7
ZZ61133		0.37	33.3	270	18.4	8.5	<0.001	0.01	0.55	8.5	0.9	0.6	17.8	<0.01	0.15	3.4
ZZ61134		0.29	31.7	340	16.3	7.1	<0.001	0.03	0.63	9.7	1.0	0.5	62.3	<0.01	0.12	2.3
ZZ61135		0.22	30.7	500	20.1	6.1	<0.001	0.06	0.58	7.8	1.2	0.5	86.8	<0.01	0.15	1.8
ZZ61136		0.24	33.6	520	19.5	7.4	<0.001	0.06	0.54	7.6	1.8	0.6	66.2	<0.01	0.10	1.3
ZZ61137		0.28	25.1	820	15.1	7.2	<0.001	0.11	0.49	4.5	1.7	0.4	82.7	<0.01	0.07	0.9
ZZ61138		0.23	34.0	720	23.2	12.6	<0.001	0.06	0.59	9.1	1.6	0.5	69.4	<0.01	0.12	2.6
ZZ61139		0.35	22.7	860	15.0	9.6	<0.001	0.10	0.44	4.1	1.1	0.5	48.6	<0.01	0.06	0.9
ZZ61140		0.35	26.4	710	18.2	7.9	<0.001	0.07	0.43	5.1	1.5	0.5	57.4	<0.01	0.10	1.6
ZZ61141		0.35	23.1	550	13.6	12.4	<0.001	0.06	0.39	5.2	0.8	0.4	25.4	<0.01	0.06	1.6
ZZ61142		0.16	14.7	920	57.2	4.9	<0.001	0.05	0.49	2.8	1.0	0.3	55.5	<0.01	0.05	0.7
ZZ61143		0.22	15.1	960	147.5	5.3	<0.001	0.06	0.60	3.6	0.5	0.4	52.5	<0.01	0.06	1.0
ZZ61144		0.39	21.6	560	31.3	8.4	<0.001	0.04	0.35	5.4	0.9	0.5	22.2	<0.01	0.08	3.2
ZZ61145		0.75	18.5	520	21.2	10.4	0.001	0.02	0.45	3.2	0.7	0.6	12.0	<0.01	0.08	1.9



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158782**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ61116		<0.005	0.58	0.73	41	0.11	5.46	108	1.0
ZZ61117		0.010	0.27	0.78	50	0.16	7.33	79	0.6
ZZ61118		0.012	0.40	1.33	52	0.17	9.27	76	1.5
ZZ61119		0.013	0.26	0.46	70	0.11	3.12	64	2.0
ZZ61120		0.006	0.16	0.45	84	0.05	4.61	85	2.2
ZZ61121		0.008	0.22	0.75	53	0.08	7.49	80	1.9
ZZ61122		0.007	2.51	3.67	18	0.14	7.69	93	1.0
ZZ61123		0.009	0.34	1.41	32	0.13	7.39	72	1.4
ZZ61124		0.009	0.24	0.80	41	0.07	9.49	73	0.6
ZZ61125		0.006	0.57	1.59	27	<0.05	16.70	93	3.5
ZZ61126		<0.005	0.31	3.01	22	0.06	18.10	98	3.0
ZZ61127		<0.005	0.13	5.41	22	0.13	10.75	74	1.5
ZZ61128		<0.005	0.12	1.57	35	0.05	15.60	94	1.9
ZZ61129		<0.005	0.12	3.02	29	0.05	18.35	77	1.3
ZZ61130		0.006	0.10	0.69	40	0.09	12.30	83	2.1
ZZ61131		0.017	0.12	0.59	54	0.17	4.00	58	1.3
ZZ61132		<0.005	0.20	2.49	30	0.05	25.6	130	1.9
ZZ61133		0.006	0.12	0.51	53	0.08	7.73	73	2.9
ZZ61134		0.005	0.13	0.77	47	0.06	13.05	72	2.5
ZZ61135		<0.005	0.12	1.07	28	0.08	16.50	84	2.1
ZZ61136		<0.005	0.13	0.97	29	<0.05	16.70	72	1.6
ZZ61137		0.005	0.10	4.94	28	<0.05	11.45	83	1.8
ZZ61138		0.006	0.33	2.38	32	0.06	14.85	84	2.3
ZZ61139		0.005	0.45	2.40	31	0.06	10.45	81	1.8
ZZ61140		0.005	0.52	1.59	30	0.07	13.45	92	2.2
ZZ61141		0.006	0.64	1.60	28	0.16	9.71	65	2.3
ZZ61142		0.005	5.52	2.61	15	0.25	11.60	168	1.2
ZZ61143		0.006	9.78	2.67	22	0.39	12.75	507	1.5
ZZ61144		0.006	3.40	1.21	30	0.11	11.60	67	2.5
ZZ61145		0.015	0.66	0.86	45	0.20	5.50	124	0.6



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**CERTIFICATE OF ANALYSIS WH12158782**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12158783**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 14  
 This report is for 80 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12158783**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56021		0.16	0.006	0.16	1.15	15.5	<0.2	<10	230	0.86	0.23	2.15	0.36	14.00	11.1	17
ZZ56022		0.31	0.004	0.12	1.49	13.2	<0.2	<10	230	1.32	0.29	1.32	0.24	32.6	14.7	29
ZZ56023		0.21	0.003	0.11	1.20	19.2	<0.2	<10	210	1.13	0.21	2.24	0.21	31.7	12.2	26
ZZ56024		0.15	0.004	0.11	0.79	38.6	<0.2	<10	270	0.97	0.15	2.30	0.22	23.6	8.8	19
ZZ56025		0.25	0.004	0.16	1.50	26.5	<0.2	<10	170	1.15	0.29	1.05	0.35	20.5	21.6	23
ZZ56026		0.18	0.004	0.15	0.98	30.0	<0.2	<10	110	1.06	0.33	0.45	0.24	14.55	22.1	20
ZZ56027		0.18	0.004	0.21	1.61	22.8	<0.2	<10	340	0.97	0.23	1.79	0.25	19.70	14.8	24
ZZ56028		0.21	0.004	0.17	1.26	20.4	<0.2	<10	280	0.98	0.29	1.11	0.22	24.9	13.9	26
ZZ56029		0.16	0.016	0.11	0.74	23.5	<0.2	<10	180	0.97	0.16	1.67	0.16	31.2	10.1	23
ZZ56030		0.31	0.003	0.11	1.68	50.8	<0.2	<10	180	1.41	0.26	0.74	0.32	36.2	17.7	29
ZZ56031		0.19	0.004	0.14	1.60	17.2	<0.2	<10	180	0.82	0.27	0.71	0.19	25.3	16.3	27
ZZ56032		0.32	0.001	0.03	2.19	20.4	<0.2	<10	160	0.96	0.32	0.06	0.17	24.3	22.0	29
ZZ56033		0.30	0.002	0.14	1.87	37.9	<0.2	<10	310	1.41	0.31	0.45	0.10	38.3	19.1	25
ZZ56034		0.23	0.003	0.25	0.81	159.0	<0.2	<10	60	0.81	0.14	9.25	0.65	16.90	8.6	13
ZZ56035		0.21	0.002	0.16	0.94	236	<0.2	<10	120	0.72	0.13	9.84	0.52	29.1	7.1	14
ZZ56036		0.17	0.001	0.16	0.86	240	<0.2	<10	90	0.65	0.12	8.51	0.76	21.6	5.8	13
ZZ56037		0.21	0.003	0.08	1.88	37.6	<0.2	<10	180	1.40	0.31	0.18	0.54	27.0	20.5	32
ZZ56038		0.28	0.003	0.13	2.12	15.0	<0.2	<10	440	1.13	0.29	0.45	0.19	29.7	15.9	31
ZZ56039		0.42	0.003	0.11	1.51	27.5	<0.2	<10	110	0.92	0.27	1.90	0.29	24.9	19.9	23
ZZ56040		0.25	0.003	0.21	1.74	37.2	<0.2	<10	260	1.42	0.33	0.50	0.21	22.1	11.3	27
ZZ56041		0.27	0.003	0.20	1.69	41.5	<0.2	<10	220	1.66	0.42	0.36	0.15	20.3	13.9	29
ZZ56042		0.21	0.008	0.60	1.95	25.3	<0.2	<10	320	2.56	0.40	0.72	0.10	42.2	18.0	34
ZZ56043		0.27	0.003	0.08	1.52	45.6	<0.2	<10	210	1.65	0.44	0.17	0.16	29.9	17.7	29
ZZ56044		0.24	0.001	0.07	1.62	29.7	<0.2	<10	970	0.78	0.31	0.12	0.23	22.4	12.8	30
ZZ56045		0.31	0.004	0.15	1.82	168.5	<0.2	<10	220	1.51	0.32	0.29	0.49	28.5	22.3	28
ZZ56046		0.24	0.001	0.02	0.90	6.7	<0.2	<10	330	1.59	0.40	0.25	0.02	11.35	19.7	33
ZZ56047		0.26	<0.001	0.07	1.14	8.6	<0.2	<10	170	0.77	0.33	0.77	0.26	11.45	8.2	21
ZZ56048		0.33	0.001	0.07	1.82	17.3	<0.2	<10	130	1.26	0.35	0.06	0.16	24.1	13.4	28
ZZ56049		0.29	0.001	0.03	1.43	14.8	<0.2	<10	130	0.33	0.26	0.11	0.08	23.4	7.5	18
ZZ56050		0.37	0.002	0.04	1.60	27.7	<0.2	<10	220	1.71	0.33	0.07	0.09	18.05	16.3	35
ZZ56051		0.20	0.001	0.01	1.03	15.4	<0.2	<10	240	1.35	0.30	0.08	0.10	10.45	13.5	26
ZZ56052		0.22	0.001	0.06	1.24	16.1	<0.2	<10	260	1.32	0.34	0.06	0.06	7.42	12.0	31
ZZ56053		0.26	<0.001	0.01	2.11	6.6	<0.2	<10	710	1.98	0.56	0.02	0.11	13.50	29.4	40
ZZ56054		0.24	0.002	0.02	1.74	8.2	<0.2	<10	450	1.86	0.53	0.06	0.10	13.90	38.9	36
ZZ56055		0.28	0.002	0.03	1.72	28.1	<0.2	<10	90	1.45	0.33	0.05	0.21	19.35	23.9	33
ZZ56056		0.36	0.002	0.09	1.41	22.3	<0.2	<10	130	0.67	0.32	0.06	0.15	17.35	11.9	25
ZZ56057		0.28	0.002	0.08	1.59	45.2	<0.2	<10	160	0.96	0.32	0.05	0.14	21.4	10.4	26
ZZ56058		0.26	0.002	0.15	1.92	48.4	<0.2	<10	410	1.30	0.41	0.19	0.13	18.25	11.6	30
ZZ56059		0.24	0.004	0.05	1.71	58.3	<0.2	<10	90	1.00	0.36	0.04	0.19	16.90	18.7	29
ZZ56060		0.23	0.003	0.07	1.37	34.7	<0.2	<10	170	1.05	0.28	0.15	0.16	26.9	15.7	26



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158783**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ56021		1.31	33.1	3.14	3.27	0.06	0.05	0.15	0.032	0.06	6.6	11.1	0.34	1060	1.12	0.01
ZZ56022		2.37	43.6	3.12	4.93	0.09	0.10	0.11	0.038	0.09	15.2	26.4	0.66	900	0.47	0.01
ZZ56023		3.36	38.1	2.68	4.06	0.09	0.09	0.11	0.036	0.09	15.3	22.5	0.68	364	0.50	0.01
ZZ56024		2.17	28.2	2.30	2.50	0.07	0.07	0.14	0.027	0.07	12.8	10.5	0.38	295	0.53	0.01
ZZ56025		1.40	69.8	4.16	4.35	0.08	0.09	0.24	0.046	0.10	8.7	22.0	0.52	1030	0.94	0.01
ZZ56026		3.19	60.1	4.73	3.18	0.08	0.07	0.15	0.046	0.10	5.9	11.6	0.32	403	0.93	0.01
ZZ56027		1.51	43.7	3.16	4.56	0.07	0.06	0.23	0.032	0.07	9.1	16.2	0.48	780	0.80	0.01
ZZ56028		2.30	38.5	3.46	3.83	0.09	0.07	0.10	0.035	0.08	12.8	16.7	0.48	553	0.74	0.01
ZZ56029		3.39	37.7	2.65	2.63	0.08	0.07	0.09	0.030	0.08	16.2	10.5	0.33	225	0.49	0.01
ZZ56030		1.73	41.8	4.13	4.66	0.09	0.11	0.15	0.046	0.09	16.3	25.1	0.51	534	0.85	0.01
ZZ56031		1.31	40.5	3.55	5.14	0.09	0.07	0.12	0.036	0.08	12.2	26.2	0.60	657	0.96	0.01
ZZ56032		1.38	42.5	4.98	5.64	0.08	0.11	0.05	0.041	0.07	9.8	44.1	0.63	628	0.71	<0.01
ZZ56033		1.96	43.5	4.33	5.16	0.10	0.09	0.08	0.050	0.08	14.5	20.3	0.45	703	0.78	0.01
ZZ56034		0.80	21.6	2.38	2.51	0.06	0.05	1.64	0.019	0.05	9.2	10.0	5.43	1530	0.79	0.02
ZZ56035		0.62	12.3	3.58	2.81	0.09	0.05	1.92	0.020	0.03	18.9	6.7	5.74	3960	0.74	0.02
ZZ56036		0.68	10.9	3.40	2.56	0.07	0.04	2.96	0.018	0.03	12.2	6.3	4.66	3040	0.57	0.02
ZZ56037		1.89	49.4	5.41	5.24	0.10	0.07	0.30	0.060	0.06	10.2	25.6	0.52	1710	1.16	0.01
ZZ56038		2.39	41.0	3.99	6.32	0.08	0.06	0.06	0.040	0.08	11.8	24.1	0.55	644	1.06	0.01
ZZ56039		2.58	61.3	4.24	4.56	0.09	0.12	0.26	0.034	0.12	10.7	31.5	0.84	949	0.65	0.01
ZZ56040		2.26	33.5	3.74	5.25	0.05	0.10	0.18	0.039	0.10	9.5	26.8	0.49	567	0.79	<0.01
ZZ56041		2.66	36.4	4.05	6.01	0.06	0.11	0.24	0.037	0.11	9.0	25.4	0.48	656	0.72	<0.01
ZZ56042		4.97	46.6	3.76	7.37	0.19	0.07	0.35	0.042	0.14	19.3	27.4	0.51	693	0.67	<0.01
ZZ56043		1.88	37.3	4.04	5.49	0.07	0.05	0.22	0.037	0.08	11.9	22.6	0.45	919	0.88	<0.01
ZZ56044		1.92	21.7	3.82	5.34	<0.05	0.03	0.09	0.032	0.08	9.8	25.5	0.45	650	1.26	0.01
ZZ56045		1.87	59.5	5.07	4.73	0.08	0.08	1.15	0.043	0.09	12.7	27.2	0.61	1680	0.80	<0.01
ZZ56046		2.60	20.2	3.96	3.30	0.05	0.02	0.02	0.025	0.18	1.8	11.7	0.32	926	0.83	<0.01
ZZ56047		1.48	17.6	2.91	5.06	<0.05	0.03	0.04	0.028	0.12	5.3	11.5	0.22	489	1.18	<0.01
ZZ56048		3.17	24.2	3.88	5.10	<0.05	0.04	0.05	0.038	0.12	9.3	22.9	0.36	600	1.49	<0.01
ZZ56049		1.71	21.4	2.89	6.62	<0.05	<0.02	0.06	0.023	0.06	10.5	8.5	0.17	419	1.14	<0.01
ZZ56050		4.00	34.9	4.10	5.63	<0.05	0.02	0.03	0.036	0.12	7.6	22.6	0.47	886	1.24	<0.01
ZZ56051		2.81	23.5	3.33	3.69	0.05	<0.02	0.02	0.025	0.14	4.2	16.9	0.37	418	0.97	<0.01
ZZ56052		3.39	34.1	3.43	5.21	<0.05	<0.02	0.03	0.028	0.15	3.2	8.2	0.24	1220	0.86	<0.01
ZZ56053		2.64	40.4	4.65	8.04	<0.05	0.02	0.02	0.040	0.11	3.7	34.3	0.53	908	0.37	<0.01
ZZ56054		2.72	43.6	3.86	6.86	<0.05	<0.02	0.06	0.042	0.13	4.4	23.7	0.42	2280	0.74	<0.01
ZZ56055		2.73	36.6	4.01	4.66	0.05	0.05	0.06	0.051	0.11	7.8	30.0	0.49	1720	1.30	<0.01
ZZ56056		1.85	23.9	3.32	5.30	<0.05	<0.02	0.05	0.026	0.09	6.8	15.6	0.33	801	1.08	<0.01
ZZ56057		2.09	33.3	3.40	5.96	<0.05	0.02	0.09	0.039	0.07	8.2	16.2	0.25	341	1.06	<0.01
ZZ56058		3.19	29.5	3.65	7.18	<0.05	0.04	0.12	0.037	0.10	7.3	19.9	0.33	601	1.07	<0.01
ZZ56059		2.21	31.5	4.44	5.98	<0.05	0.03	0.13	0.038	0.09	6.8	28.9	0.31	1210	1.04	<0.01
ZZ56060		2.00	42.8	3.55	4.41	0.06	0.02	0.12	0.029	0.08	10.8	21.3	0.51	1040	0.83	<0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158783**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ56021		0.43	22.6	1070	14.9	8.9	<0.001	0.12	0.59	3.3	1.7	0.4	79.1	<0.01	0.06	0.5
ZZ56022		0.41	36.5	790	18.5	9.8	<0.001	0.06	0.35	6.7	1.2	0.5	50.0	0.01	0.04	2.1
ZZ56023		0.37	28.1	730	13.2	9.7	<0.001	0.08	0.36	5.1	1.4	0.4	78.6	0.01	0.04	1.3
ZZ56024		0.25	19.6	760	11.2	6.2	<0.001	0.09	0.35	3.6	1.4	0.3	79.1	<0.01	0.04	0.9
ZZ56025		0.23	35.5	610	24.3	7.6	<0.001	0.04	0.47	9.2	1.3	0.4	49.2	0.01	0.09	1.8
ZZ56026		0.21	39.1	450	23.2	8.1	<0.001	0.03	0.44	10.4	1.1	0.4	24.0	<0.01	0.08	2.3
ZZ56027		0.53	25.3	1080	14.5	8.0	<0.001	0.10	0.55	4.0	1.8	0.4	72.5	0.01	0.06	0.6
ZZ56028		0.46	30.2	640	18.5	7.9	<0.001	0.05	0.52	6.0	1.1	0.4	42.5	0.01	0.05	1.8
ZZ56029		0.21	22.7	580	11.7	7.3	<0.001	0.07	0.28	4.5	1.7	0.3	61.2	<0.01	0.04	1.4
ZZ56030		0.33	33.1	440	19.7	9.3	<0.001	0.03	0.32	8.3	1.2	0.4	40.9	<0.01	0.07	3.9
ZZ56031		0.63	29.2	450	15.6	8.3	<0.001	0.03	0.48	7.2	0.9	0.5	34.6	<0.01	0.07	2.2
ZZ56032		0.22	33.8	180	25.5	11.1	<0.001	0.01	0.34	5.1	0.4	0.4	9.6	<0.01	0.07	4.3
ZZ56033		0.35	34.6	360	22.3	10.8	<0.001	0.02	0.28	9.7	0.8	0.6	30.1	0.01	0.07	4.4
ZZ56034		0.28	14.9	1030	41.7	4.8	<0.001	0.07	0.36	2.7	0.9	0.3	50.5	<0.01	0.05	0.5
ZZ56035		0.33	12.8	1190	30.5	4.9	<0.001	0.06	0.37	2.3	0.9	0.3	46.3	0.01	0.05	0.5
ZZ56036		0.34	10.4	1420	22.9	4.7	<0.001	0.07	0.35	2.1	0.9	0.3	43.6	0.01	0.03	0.5
ZZ56037		0.43	31.7	410	23.5	9.5	<0.001	0.02	0.35	10.0	0.8	0.5	11.6	0.01	0.07	3.5
ZZ56038		0.68	25.9	830	18.6	11.5	<0.001	0.03	0.37	6.9	0.7	0.6	21.9	0.01	0.06	1.8
ZZ56039		0.13	34.1	620	20.3	7.9	<0.001	0.02	0.43	7.8	0.6	0.3	69.4	<0.01	0.08	4.3
ZZ56040		0.44	24.9	820	20.4	16.1	0.001	0.03	0.38	5.9	0.8	0.7	27.0	<0.01	0.08	2.5
ZZ56041		0.42	27.2	670	23.4	19.2	<0.001	0.02	0.34	7.2	1.4	0.9	26.1	<0.01	0.06	3.4
ZZ56042		0.70	31.1	920	31.2	28.5	<0.001	0.05	0.33	12.0	4.2	1.0	43.3	<0.01	0.04	3.0
ZZ56043		0.50	32.6	480	30.3	11.6	<0.001	<0.01	0.45	6.8	0.8	0.8	14.8	<0.01	0.05	5.4
ZZ56044		0.76	22.9	650	23.6	13.3	<0.001	0.03	0.64	3.2	0.6	0.7	19.6	<0.01	0.06	1.7
ZZ56045		0.25	37.7	830	39.1	10.4	<0.001	0.01	0.57	8.2	1.0	0.5	18.2	<0.01	0.10	4.6
ZZ56046		0.52	22.2	250	27.1	19.9	<0.001	<0.01	0.38	4.3	<0.2	1.1	11.5	<0.01	0.03	8.1
ZZ56047		0.82	14.2	590	14.6	17.2	<0.001	0.03	0.54	2.6	0.2	0.9	20.8	<0.01	0.06	1.6
ZZ56048		0.80	25.5	500	26.9	19.2	0.001	0.03	0.64	3.6	0.7	0.9	23.4	<0.01	0.06	3.6
ZZ56049		0.51	10.3	350	11.9	9.6	<0.001	<0.01	0.40	2.8	0.4	0.9	9.3	<0.01	0.07	2.2
ZZ56050		0.63	26.1	490	19.9	21.2	<0.001	<0.01	0.57	4.5	0.6	0.9	9.7	<0.01	0.10	2.8
ZZ56051		0.48	20.7	230	19.6	16.3	<0.001	<0.01	0.40	3.7	0.2	0.9	9.4	<0.01	0.06	3.4
ZZ56052		0.37	15.5	800	15.6	27.6	<0.001	0.04	0.39	1.8	0.4	1.1	8.5	<0.01	0.05	0.4
ZZ56053		0.47	28.9	260	16.6	15.2	<0.001	<0.01	0.21	5.8	0.2	1.4	12.1	<0.01	0.06	3.5
ZZ56054		0.61	28.4	420	20.8	16.4	0.001	0.01	0.30	5.9	0.5	1.2	8.9	<0.01	0.07	3.2
ZZ56055		0.89	30.5	470	25.1	15.3	<0.001	<0.01	0.60	4.1	0.4	0.8	7.6	<0.01	0.06	6.1
ZZ56056		0.65	18.1	570	17.2	14.8	0.001	0.01	0.45	2.5	0.7	0.8	7.7	<0.01	0.05	1.1
ZZ56057		0.63	18.0	650	15.3	15.9	<0.001	0.01	0.45	3.3	0.7	0.8	7.7	<0.01	0.07	1.3
ZZ56058		0.63	19.1	920	20.8	24.2	<0.001	0.04	0.41	4.2	0.7	1.0	16.3	<0.01	0.05	1.7
ZZ56059		0.66	20.0	490	19.5	17.3	<0.001	0.01	0.47	3.8	0.7	0.8	7.2	<0.01	0.08	2.7
ZZ56060		0.55	26.5	580	20.5	10.2	<0.001	<0.01	0.53	5.2	0.7	0.6	12.1	<0.01	0.07	4.1

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56021		0.009	0.12	2.62	34	0.17	9.40	97	1.1
ZZ56022		0.007	0.13	2.97	27	0.08	18.65	83	2.3
ZZ56023		0.007	0.15	2.79	25	0.08	16.20	77	2.4
ZZ56024		0.005	0.18	2.30	23	0.06	11.55	58	1.8
ZZ56025		<0.005	0.13	0.98	40	0.06	16.00	86	1.9
ZZ56026		<0.005	0.12	0.76	39	0.05	12.65	95	1.6
ZZ56027		0.010	0.12	4.97	39	0.14	12.00	64	1.2
ZZ56028		0.010	0.12	2.28	35	0.10	15.15	84	1.6
ZZ56029		<0.005	0.20	3.88	27	0.05	11.85	68	2.0
ZZ56030		<0.005	0.24	2.72	42	0.08	13.15	89	2.9
ZZ56031		0.015	0.10	0.83	44	0.14	12.05	71	1.4
ZZ56032		<0.005	0.10	0.44	41	<0.05	4.06	74	4.5
ZZ56033		<0.005	0.21	1.65	41	0.08	15.30	77	2.1
ZZ56034		0.007	1.55	2.65	20	0.19	12.20	143	1.0
ZZ56035		0.013	2.25	2.05	24	0.52	17.00	67	0.7
ZZ56036		0.013	5.45	1.45	21	0.14	11.35	123	0.7
ZZ56037		0.007	0.40	0.82	57	0.10	11.55	94	1.5
ZZ56038		0.012	0.18	1.17	57	0.20	8.68	81	1.2
ZZ56039		0.007	0.26	0.56	35	0.05	9.97	88	4.8
ZZ56040		0.005	0.34	1.31	38	0.09	14.95	103	2.3
ZZ56041		0.005	0.33	1.20	35	0.17	20.4	96	2.5
ZZ56042		0.006	0.32	2.55	32	0.15	69.7	81	1.5
ZZ56043		0.012	0.36	1.31	38	0.12	15.05	97	1.4
ZZ56044		0.019	0.23	0.75	52	0.22	4.14	98	0.6
ZZ56045		0.005	1.06	1.26	44	0.21	13.65	134	2.1
ZZ56046		0.017	0.18	0.75	17	0.38	5.72	51	0.8
ZZ56047		0.012	0.14	0.60	41	0.22	4.73	71	0.9
ZZ56048		0.011	0.23	0.99	43	0.20	5.20	84	0.9
ZZ56049		0.009	0.16	0.38	55	0.11	2.24	37	<0.5
ZZ56050		0.012	0.19	0.97	40	0.35	6.45	74	<0.5
ZZ56051		0.016	0.13	0.76	25	0.30	4.32	59	<0.5
ZZ56052		0.009	0.15	1.60	34	0.37	5.48	54	<0.5
ZZ56053		0.010	0.16	0.84	36	0.24	6.34	90	0.6
ZZ56054		0.013	0.12	1.16	35	0.27	7.56	86	<0.5
ZZ56055		0.016	0.17	0.71	38	0.28	3.78	85	1.4
ZZ56056		0.015	0.18	0.65	41	0.24	3.19	63	<0.5
ZZ56057		0.008	0.32	0.71	45	0.16	4.59	58	<0.5
ZZ56058		0.006	0.53	1.16	45	0.17	9.73	74	0.8
ZZ56059		0.009	0.37	0.63	45	0.14	3.19	94	0.7
ZZ56060		0.020	0.17	0.95	39	0.18	8.19	80	0.5



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158783**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56061		0.24	0.001	0.02	1.36	20.5	<0.2	<10	80	0.62	0.37	0.05	0.09	16.15	15.2	30
ZZ56062		0.19	0.002	0.06	1.48	33.2	<0.2	<10	160	0.86	0.42	0.04	0.15	13.90	15.7	29
ZZ56063		0.20	0.001	0.04	1.86	25.1	<0.2	<10	140	1.46	0.45	0.12	0.10	17.35	23.7	35
ZZ56064		0.36	0.001	0.06	1.80	18.1	<0.2	<10	140	1.35	0.49	0.12	0.08	14.25	16.0	35
ZZ56065		0.23	0.004	0.22	1.61	309	<0.2	<10	350	1.73	0.30	0.21	1.29	35.1	17.7	25
ZZ56066		0.30	0.003	0.12	1.59	281	<0.2	<10	220	1.13	0.31	0.20	0.48	29.1	15.9	27
ZZ56067		0.27	0.003	0.05	2.20	43.2	<0.2	<10	310	1.04	0.34	0.30	0.10	25.9	11.8	33
ZZ56068		0.22	0.010	0.09	1.62	26.7	<0.2	<10	180	0.53	0.28	0.21	0.10	20.3	7.4	25
ZZ56069		0.29	0.001	0.03	1.43	17.9	<0.2	<10	100	0.64	0.26	0.10	0.12	24.7	12.6	21
ZZ56070		0.23	0.002	0.10	1.49	137.0	<0.2	<10	150	0.92	0.27	1.64	0.22	24.5	12.0	22
ZZ56071		0.36	0.003	0.13	1.88	69.9	<0.2	<10	190	1.14	0.28	0.47	0.20	26.7	13.0	30
ZZ56072		0.22	0.020	0.20	1.09	25.7	<0.2	<10	170	1.23	0.26	1.52	0.15	22.3	11.2	17
ZZ56073		0.21	0.001	0.21	0.60	18.7	<0.2	<10	60	0.93	0.31	0.82	0.13	22.5	13.2	14
ZZ56074		0.19	0.003	0.13	1.60	18.5	<0.2	<10	150	1.30	0.35	1.73	0.20	29.5	13.9	24
ZZ56075		0.29	0.004	0.15	1.19	325	<0.2	10	170	1.23	0.26	1.35	0.31	21.4	13.3	20
ZZ56076		0.18	0.004	0.08	1.30	32.7	<0.2	<10	120	0.93	0.24	1.29	0.21	30.8	11.8	25
ZZ56077		0.17	0.004	0.09	1.40	28.7	<0.2	<10	120	1.19	0.27	0.74	0.16	32.5	12.7	32
ZZ56078		0.23	0.001	0.08	1.22	14.2	<0.2	<10	200	1.30	0.29	1.80	0.19	28.6	12.6	23
ZZ56079		0.21	0.002	0.06	0.99	13.3	<0.2	<10	170	1.05	0.20	2.15	0.18	31.8	9.1	24
ZZ56080		0.20	0.003	0.18	1.87	31.5	<0.2	<10	280	1.24	0.28	0.85	0.73	28.0	21.3	25
ZZ56081		0.24	0.003	0.37	1.38	34.2	<0.2	<10	280	0.84	0.22	2.32	0.80	18.50	13.3	18
ZZ56082		0.18	0.002	0.51	0.64	30.2	<0.2	10	130	0.73	0.23	2.73	0.48	13.25	11.8	9
ZZ56083		0.35	0.002	0.03	1.88	38.9	<0.2	<10	130	1.18	0.29	0.07	0.21	21.4	17.6	26
ZZ56084		0.25	0.003	0.12	1.67	24.2	<0.2	<10	190	0.85	0.29	0.54	0.32	26.5	12.9	27
ZZ56085		0.20	0.003	0.39	1.14	47.3	<0.2	<10	190	0.81	0.21	2.56	0.59	16.35	10.1	15
ZZ56086		0.19	0.003	0.16	1.35	25.9	<0.2	<10	190	0.93	0.22	1.72	0.22	15.00	11.6	19
ZZ56087		0.19	0.001	0.06	1.98	23.6	<0.2	<10	190	0.69	0.30	0.18	0.25	22.6	14.6	24
ZZ56088		0.24	0.003	0.11	1.22	19.3	<0.2	<10	200	1.37	0.26	1.70	0.13	19.95	9.5	23
ZZ56089		0.16	0.002	0.05	0.87	28.5	<0.2	10	140	1.36	0.35	1.52	0.15	32.5	13.4	21
ZZ56090		0.29	0.001	0.07	1.09	14.2	<0.2	<10	90	1.10	0.29	1.88	0.34	33.5	11.3	21
ZZ56091		0.22	0.018	0.16	0.77	40.8	<0.2	<10	210	1.22	0.16	2.04	0.22	32.9	9.0	20
ZZ56092		0.20	0.008	0.17	1.23	109.5	<0.2	<10	170	1.06	0.25	1.35	0.22	21.2	11.7	20
ZZ56093		0.20	0.003	0.12	1.13	30.9	<0.2	<10	190	0.91	0.20	1.84	0.24	15.70	9.7	17
ZZ56094		0.28	0.001	0.11	0.88	15.3	<0.2	<10	170	0.92	0.29	1.30	0.13	19.20	12.4	15
ZZ56095		0.23	0.002	0.20	1.15	20.3	<0.2	<10	130	1.00	0.29	2.11	0.23	30.3	11.9	18
ZZ56096		0.19	0.003	0.13	1.49	17.7	<0.2	<10	190	1.21	0.27	0.97	0.17	19.85	12.9	22
ZZ56097		0.33	0.002	0.04	1.77	23.8	<0.2	<10	110	0.90	0.30	0.07	0.22	27.1	15.1	27
ZZ56098		0.17	0.001	0.30	0.70	321	<0.2	<10	60	0.61	0.13	9.68	2.03	12.95	6.2	11
ZZ56099		0.20	0.002	0.18	1.30	182.0	<0.2	<10	150	1.05	0.20	6.20	0.60	20.5	8.6	19
ZZ56100		0.29	0.004	0.23	2.02	51.5	<0.2	<10	270	1.18	0.30	0.41	0.24	32.4	13.6	33





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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158783**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56061		2.28	23.9	3.86	5.92	<0.05	<0.02	0.04	0.028	0.11	7.1	14.5	0.26	1620	1.28	<0.01
ZZ56062		2.36	30.7	3.98	6.33	<0.05	<0.02	0.04	0.030	0.10	5.5	13.1	0.28	629	0.89	<0.01
ZZ56063		2.46	29.2	4.22	7.72	<0.05	0.02	0.06	0.046	0.10	6.0	26.6	0.52	1050	0.61	<0.01
ZZ56064		1.19	32.5	4.09	7.88	<0.05	0.02	0.06	0.042	0.08	5.2	25.5	0.48	656	0.61	<0.01
ZZ56065		1.76	55.9	6.50	4.25	0.10	0.08	1.87	0.043	0.07	15.1	21.0	0.50	2890	0.89	<0.01
ZZ56066		2.00	45.3	5.10	4.53	0.05	0.06	1.51	0.037	0.08	9.2	23.0	0.48	1420	0.90	<0.01
ZZ56067		1.90	22.4	3.76	6.45	<0.05	0.07	0.19	0.035	0.07	10.2	22.5	0.48	681	1.10	<0.01
ZZ56068		2.11	20.9	2.76	5.64	<0.05	0.02	0.13	0.028	0.06	8.8	17.5	0.33	381	0.94	<0.01
ZZ56069		1.43	36.0	3.36	5.32	0.05	0.02	0.08	0.026	0.07	10.4	25.8	0.41	532	0.78	<0.01
ZZ56070		1.72	33.9	3.87	4.35	0.05	0.04	2.46	0.029	0.08	10.8	21.1	1.18	1260	0.74	<0.01
ZZ56071		1.95	34.7	4.98	4.94	0.05	0.08	0.88	0.033	0.09	12.7	26.3	0.65	1280	0.71	<0.01
ZZ56072		2.02	46.8	3.22	3.07	0.08	0.08	0.22	0.033	0.09	13.2	14.8	0.34	539	0.61	<0.01
ZZ56073		1.13	36.2	3.87	1.80	0.05	0.07	0.06	0.035	0.08	8.0	8.3	0.18	325	0.68	<0.01
ZZ56074		0.89	41.3	4.20	4.66	0.07	0.09	0.08	0.042	0.09	11.1	27.2	0.45	475	0.74	<0.01
ZZ56075		8.33	50.6	3.55	3.40	0.05	0.10	0.24	0.040	0.10	8.3	23.7	0.74	303	0.81	<0.01
ZZ56076		3.06	36.0	3.19	4.36	0.09	0.08	0.08	0.036	0.10	13.6	27.7	0.72	390	0.83	0.01
ZZ56077		10.80	44.2	3.58	4.73	0.11	0.11	0.09	0.038	0.09	17.0	32.1	0.97	343	0.83	0.01
ZZ56078		9.85	40.6	2.96	4.21	0.09	0.08	0.07	0.036	0.10	12.9	18.1	0.55	368	0.43	0.01
ZZ56079		3.60	29.8	2.66	3.64	0.10	0.07	0.06	0.033	0.06	11.0	21.6	0.50	546	0.39	0.01
ZZ56080		1.29	63.4	4.37	5.68	0.10	0.07	0.21	0.051	0.07	13.1	23.2	0.47	2490	0.95	0.01
ZZ56081		0.87	43.4	3.12	3.86	0.07	0.06	0.18	0.034	0.06	7.9	13.8	0.31	1780	0.81	0.01
ZZ56082		1.32	47.2	2.47	1.71	0.07	0.08	0.43	0.032	0.08	6.2	6.5	0.15	378	1.79	0.01
ZZ56083		1.83	68.3	4.69	6.13	0.09	0.05	0.10	0.050	0.06	8.1	22.9	0.49	574	1.35	0.01
ZZ56084		1.45	35.2	3.75	5.39	0.08	0.05	0.10	0.039	0.06	12.5	23.6	0.52	649	1.26	0.01
ZZ56085		0.72	41.1	2.87	3.19	0.08	0.06	0.32	0.032	0.05	8.2	12.0	0.29	479	0.83	0.01
ZZ56086		0.89	52.5	3.38	3.99	0.08	0.05	0.14	0.034	0.06	7.6	17.3	0.42	740	0.84	0.01
ZZ56087		1.49	38.9	4.74	7.41	0.08	0.05	0.03	0.046	0.06	8.7	30.8	0.38	392	1.30	0.01
ZZ56088		6.60	41.4	2.78	3.88	0.10	0.08	0.09	0.032	0.07	12.2	23.9	0.46	413	0.46	0.01
ZZ56089		19.50	36.9	3.35	3.00	0.12	0.12	0.08	0.042	0.09	14.0	16.0	0.36	435	0.51	0.01
ZZ56090		6.61	35.8	3.13	3.60	0.10	0.08	0.05	0.038	0.07	17.2	14.2	0.34	386	0.55	0.01
ZZ56091		3.76	37.8	2.46	2.41	0.08	0.06	0.19	0.029	0.06	17.9	10.2	0.28	522	0.68	0.01
ZZ56092		3.07	49.6	3.45	3.78	0.09	0.08	0.20	0.039	0.08	10.1	20.7	0.55	361	0.99	0.01
ZZ56093		2.23	38.6	2.79	3.26	0.07	0.07	0.12	0.031	0.07	7.2	15.5	0.38	398	0.72	0.01
ZZ56094		0.66	34.1	3.31	2.61	0.07	0.07	0.05	0.041	0.07	6.1	12.6	0.23	302	0.67	0.01
ZZ56095		0.98	38.4	3.59	3.47	0.09	0.07	0.06	0.042	0.09	13.6	14.5	0.22	366	0.91	0.01
ZZ56096		1.82	45.2	3.52	4.48	0.08	0.08	0.10	0.036	0.10	8.3	24.1	0.45	450	0.70	0.01
ZZ56097		2.53	39.6	3.98	5.12	0.08	0.06	0.04	0.038	0.08	10.3	27.5	0.48	531	1.04	0.01
ZZ56098		1.90	14.5	2.14	2.13	0.05	0.05	1.33	0.019	0.06	5.6	12.1	5.78	1150	1.12	0.02
ZZ56099		1.78	25.5	4.06	3.88	0.07	0.07	1.34	0.027	0.08	11.3	23.7	3.71	2510	0.68	0.02
ZZ56100		2.22	40.6	3.72	6.00	0.09	0.08	0.13	0.037	0.10	17.4	29.2	0.68	689	1.26	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ56061		0.77	15.4	470	17.6	19.8	0.001	<0.01	0.54	3.0	0.5	0.9	7.3	<0.01	0.09	1.9
ZZ56062		0.68	17.9	540	17.4	15.4	<0.001	0.01	0.33	3.1	<0.2	1.0	6.1	<0.01	0.06	1.6
ZZ56063		0.47	27.8	490	26.0	14.4	<0.001	<0.01	0.25	4.9	0.6	1.0	13.5	<0.01	0.05	2.7
ZZ56064		0.34	28.0	390	22.9	10.6	<0.001	<0.01	0.21	4.9	0.3	1.1	13.1	<0.01	0.05	3.4
ZZ56065		0.21	36.2	670	47.6	10.2	<0.001	0.01	0.49	9.4	1.8	0.5	15.5	<0.01	0.11	3.8
ZZ56066		0.33	30.6	700	40.4	12.5	<0.001	0.01	0.54	6.0	0.7	0.5	13.4	<0.01	0.10	3.2
ZZ56067		0.76	19.9	940	21.4	11.7	<0.001	0.02	0.52	4.7	0.8	0.8	19.2	<0.01	0.04	2.1
ZZ56068		0.55	15.1	860	12.9	10.6	<0.001	0.01	0.37	2.4	0.8	0.6	13.3	<0.01	0.06	1.0
ZZ56069		0.30	19.7	570	14.7	10.5	<0.001	<0.01	0.37	3.1	0.3	0.5	9.9	<0.01	0.06	1.7
ZZ56070		0.30	24.8	750	22.4	10.5	<0.001	0.01	0.40	5.0	0.7	0.5	20.2	<0.01	0.07	2.9
ZZ56071		0.42	26.7	640	22.8	11.7	0.001	0.02	0.44	6.1	1.0	0.5	13.0	<0.01	0.09	2.7
ZZ56072		0.20	27.3	770	19.9	11.1	<0.001	0.09	0.45	4.8	1.6	0.4	64.3	<0.01	0.07	1.3
ZZ56073		0.12	32.0	390	31.1	6.7	0.001	0.04	0.44	5.1	0.9	0.4	32.8	<0.01	0.08	3.8
ZZ56074		0.35	30.1	540	21.5	8.6	<0.001	0.03	0.39	7.0	1.0	0.6	80.6	<0.01	0.11	3.4
ZZ56075		0.24	29.4	730	20.0	14.3	0.001	0.07	0.45	7.2	2.6	0.5	150.0	<0.01	0.09	2.0
ZZ56076		0.45	27.5	500	16.2	11.1	<0.001	0.05	0.31	5.7	1.0	0.4	58.2	<0.01	0.05	2.6
ZZ56077		0.41	33.7	570	17.9	9.7	<0.001	0.06	0.34	9.1	1.6	0.4	31.4	0.01	0.05	4.5
ZZ56078		0.42	34.1	690	15.7	13.1	<0.001	0.07	0.24	4.9	1.1	0.4	46.3	0.01	0.04	1.6
ZZ56079		0.37	32.7	840	16.6	7.0	<0.001	0.08	0.26	3.5	0.9	0.4	55.8	0.01	0.02	1.2
ZZ56080		0.40	37.7	670	26.3	9.4	<0.001	0.04	0.52	7.7	1.2	0.5	69.1	0.01	0.10	1.5
ZZ56081		0.37	25.8	1250	28.2	6.2	<0.001	0.11	1.06	3.4	1.3	0.3	135.5	0.01	0.07	0.5
ZZ56082		0.18	28.2	1020	37.0	5.5	0.002	0.13	2.10	3.9	1.9	0.3	171.0	0.01	0.07	0.5
ZZ56083		0.59	32.7	310	17.7	9.8	<0.001	0.01	0.45	6.4	0.7	0.6	9.5	<0.01	0.12	2.9
ZZ56084		0.86	29.6	540	18.8	9.6	<0.001	0.03	0.50	5.6	0.9	0.5	39.2	<0.01	0.07	2.3
ZZ56085		0.32	22.3	990	68.9	6.7	<0.001	0.11	2.18	3.4	1.6	0.3	154.5	0.01	0.07	0.4
ZZ56086		0.31	26.7	920	15.8	6.3	0.001	0.08	0.49	4.7	1.3	0.3	107.0	0.01	0.07	0.6
ZZ56087		0.72	26.2	290	23.7	10.8	<0.001	0.02	0.31	4.6	0.4	0.6	16.2	<0.01	0.08	2.5
ZZ56088		0.38	35.5	890	17.9	8.6	<0.001	0.11	0.33	3.9	1.5	0.4	56.7	0.01	0.03	0.9
ZZ56089		0.27	45.2	590	22.9	10.2	<0.001	0.06	0.27	7.9	1.0	0.4	44.7	0.01	0.03	4.1
ZZ56090		0.45	32.3	680	29.2	11.0	<0.001	0.06	0.44	4.7	0.8	0.4	49.6	0.01	0.04	2.0
ZZ56091		0.29	22.1	930	12.6	7.5	<0.001	0.10	0.29	3.1	2.2	0.3	91.4	0.01	0.03	0.7
ZZ56092		0.30	30.1	580	16.5	7.3	<0.001	0.06	0.40	6.9	1.2	0.4	54.1	<0.01	0.06	1.7
ZZ56093		0.27	23.0	780	15.1	7.8	<0.001	0.09	0.32	3.7	1.1	0.3	69.3	<0.01	0.05	0.8
ZZ56094		0.23	30.7	470	21.7	6.1	<0.001	0.05	0.31	5.3	0.9	0.4	55.8	<0.01	0.08	2.2
ZZ56095		0.41	31.2	500	21.3	7.9	<0.001	0.05	0.31	5.7	1.0	0.5	86.8	0.01	0.10	2.4
ZZ56096		0.35	31.8	610	18.0	10.9	<0.001	0.05	0.32	5.8	1.0	0.5	45.8	<0.01	0.07	2.0
ZZ56097		0.76	34.0	500	19.4	9.7	<0.001	0.02	0.46	4.6	0.6	0.5	10.6	<0.01	0.06	3.3
ZZ56098		0.23	15.3	950	63.5	9.0	<0.001	0.05	0.63	2.7	0.6	0.2	50.3	<0.01	0.04	0.9
ZZ56099		0.33	20.5	940	26.1	11.7	<0.001	0.05	0.33	4.5	0.7	0.3	39.4	<0.01	0.06	1.7
ZZ56100		0.81	36.2	690	19.9	14.5	<0.001	0.03	0.59	6.8	0.9	0.6	27.8	0.01	0.06	2.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158783**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56061		0.016	0.15	0.60	48	0.23	3.09	62	<0.5
ZZ56062		0.012	0.27	0.70	42	0.21	4.08	77	<0.5
ZZ56063		0.008	0.21	0.68	35	0.08	6.80	88	0.5
ZZ56064		0.006	0.17	0.67	32	0.05	7.22	83	0.5
ZZ56065		<0.005	1.83	1.61	49	0.12	20.4	248	1.8
ZZ56066		0.006	1.58	1.23	43	0.15	9.59	158	1.6
ZZ56067		0.012	0.42	1.44	62	0.20	6.60	88	1.5
ZZ56068		0.009	0.33	0.79	47	0.18	3.64	55	0.5
ZZ56069		0.006	0.18	0.48	41	0.09	4.05	59	<0.5
ZZ56070		0.006	2.32	1.04	37	0.12	9.57	76	1.1
ZZ56071		0.008	1.89	1.10	46	0.16	10.50	114	1.9
ZZ56072		<0.005	0.29	3.40	26	<0.05	21.1	59	2.1
ZZ56073		<0.005	0.14	1.12	20	<0.05	13.75	84	2.4
ZZ56074		<0.005	0.11	1.28	39	0.06	13.15	80	2.3
ZZ56075		<0.005	0.75	4.27	28	0.06	13.45	113	2.7
ZZ56076		0.008	0.22	2.27	33	0.07	9.68	59	2.7
ZZ56077		0.008	0.25	1.30	33	0.06	17.00	80	3.5
ZZ56078		0.008	0.18	3.56	22	0.09	19.25	80	2.2
ZZ56079		0.008	0.11	4.01	19	0.07	15.60	80	1.9
ZZ56080		0.007	0.14	1.26	46	0.11	20.8	84	1.6
ZZ56081		0.008	0.09	2.15	32	0.09	13.25	74	1.3
ZZ56082		<0.005	0.15	3.04	16	0.07	20.6	84	2.1
ZZ56083		0.008	0.14	0.48	57	0.10	5.67	61	1.6
ZZ56084		0.020	0.13	2.97	48	0.20	9.99	77	1.3
ZZ56085		0.005	0.11	2.80	28	0.08	19.95	94	1.5
ZZ56086		0.007	0.08	1.92	33	0.12	13.50	53	1.2
ZZ56087		0.007	0.14	0.44	62	0.09	4.06	49	1.9
ZZ56088		0.006	0.15	7.55	18	0.09	23.6	68	1.8
ZZ56089		<0.005	0.40	3.65	15	0.06	22.2	94	3.4
ZZ56090		0.009	0.24	4.16	25	0.09	14.85	102	2.2
ZZ56091		0.005	0.20	4.86	26	0.09	18.05	60	1.7
ZZ56092		0.006	0.33	2.14	32	0.07	14.65	57	2.5
ZZ56093		<0.005	0.19	3.70	26	0.07	9.77	65	1.9
ZZ56094		<0.005	0.15	1.25	23	0.05	9.09	70	2.0
ZZ56095		<0.005	0.15	2.11	32	0.08	13.75	72	2.2
ZZ56096		0.005	0.14	2.10	32	0.07	12.35	60	2.3
ZZ56097		0.013	0.21	0.72	43	0.16	5.48	85	1.8
ZZ56098		0.005	4.55	1.63	16	0.36	7.50	479	1.5
ZZ56099		0.006	8.58	1.99	28	0.27	10.85	136	1.8
ZZ56100		0.021	0.40	1.43	49	0.19	16.40	92	1.9



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**CERTIFICATE OF ANALYSIS WH12158783**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12158784**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 14  
 This report is for 239 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023111		0.18	0.025	1.64	1.22	1745	<0.2	<10	840	1.35	0.21	0.99	13.05	18.75	9.0	25
DD023112		0.20	0.256	1.08	1.55	1875	0.2	<10	380	1.31	0.28	0.33	7.19	22.6	11.3	26
DD023113		0.21	0.011	1.62	1.27	2990	<0.2	<10	340	1.03	0.22	0.09	13.15	18.80	14.8	31
DD023114		0.30	0.003	0.34	1.23	993	<0.2	<10	230	0.74	0.21	0.05	4.25	15.95	7.0	22
DD023115		0.21	0.002	0.14	1.09	244	<0.2	<10	100	0.54	0.34	0.03	1.60	18.80	9.6	20
DD023116		0.30	0.003	0.20	1.40	365	<0.2	<10	230	0.94	0.23	0.17	2.08	25.4	10.6	24
DD023117		0.36	0.003	0.45	1.40	89.5	<0.2	<10	430	1.28	0.27	1.58	1.55	33.2	12.6	22
DD023118		0.30	0.003	0.15	1.79	78.6	<0.2	<10	310	1.00	0.27	0.28	0.60	40.4	12.2	30
DD023119		0.24	0.002	0.23	1.30	62.9	<0.2	<10	370	1.08	0.22	0.30	1.60	30.9	9.2	21
DD023120		0.20	0.002	0.26	1.12	57.0	<0.2	<10	260	0.91	0.19	0.50	0.73	22.3	7.5	17
DD023121		0.20	0.001	0.11	1.67	31.3	<0.2	<10	140	0.89	0.24	0.31	0.53	33.2	7.4	25
DD023122		0.19	0.001	0.24	1.01	22.1	<0.2	<10	220	0.93	0.19	0.88	2.71	32.9	9.3	15
DD023123		0.18	0.003	0.05	1.99	16.7	<0.2	<10	200	1.17	0.24	0.48	0.34	48.3	7.3	24
DD023124		0.16	0.002	1.17	0.62	24.9	<0.2	<10	180	0.93	0.18	1.69	4.54	30.6	8.8	11
DD023125		0.17	0.003	0.86	0.95	16.2	<0.2	<10	330	0.94	0.15	2.18	3.08	21.1	5.7	15
DD023126		0.18	0.001	0.05	1.33	12.0	<0.2	<10	60	0.58	0.44	0.05	0.19	9.54	9.4	22
DD023127		0.19	0.002	0.08	1.78	25.0	<0.2	<10	160	1.23	0.40	0.06	0.34	17.85	17.3	27
DD023128		0.26	0.004	1.14	0.90	412	<0.2	<10	170	0.56	0.19	0.06	2.29	14.10	6.9	18
DD023129		0.23	0.008	1.03	0.58	344	<0.2	<10	410	0.80	0.20	0.66	1.92	14.50	7.7	11
DD023130		0.22	0.008	1.32	0.66	456	<0.2	<10	430	0.91	0.18	1.48	2.46	13.85	6.2	11
DD023131		0.20	0.006	1.68	0.48	103.0	<0.2	<10	930	0.64	0.21	0.86	6.34	9.20	5.3	37
DD023132		0.13	0.012	0.52	1.26	469	<0.2	<10	330	1.12	0.18	2.74	2.29	15.20	6.9	22
DD023133		0.16	0.017	0.47	1.26	673	<0.2	<10	240	1.09	0.18	3.81	3.21	15.75	6.3	24
DD023134		0.21	0.036	1.98	1.55	856	<0.2	<10	380	1.53	0.23	3.65	2.50	23.0	9.2	27
DD023135		0.24	0.005	0.25	0.75	831	<0.2	<10	310	1.22	0.11	20.7	2.76	13.35	5.5	14
DD023136		0.21	0.016	0.68	1.29	741	<0.2	<10	840	1.26	0.19	4.73	2.92	25.7	9.0	28
DD023137		0.19	0.017	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023138		0.17	0.025	0.73	1.54	648	<0.2	<10	260	1.59	0.24	3.11	4.04	31.4	9.6	29
DD023139		0.16	0.004	1.56	0.72	46.0	<0.2	<10	1960	0.68	0.17	1.14	1.39	11.15	4.2	35
DD023140		0.12	0.006	3.03	0.58	45.8	<0.2	10	1240	0.70	0.15	1.69	1.80	8.56	3.8	36
DD023141		0.19	0.006	3.90	0.49	41.6	<0.2	10	1400	0.65	0.16	1.54	2.04	7.72	5.0	37
DD023142		0.15	0.002	0.28	1.10	16.5	<0.2	<10	860	0.50	0.24	0.35	0.30	15.65	6.4	23
DD023143		0.20	0.002	1.39	0.63	23.4	<0.2	<10	180	0.20	0.32	0.02	0.12	17.15	2.6	17
DD023144		0.20	0.002	1.76	0.89	30.2	<0.2	<10	1530	0.54	0.17	0.46	0.51	11.75	4.5	33
DD023145		0.23	0.010	4.75	0.56	39.7	<0.2	10	1220	0.80	0.19	0.86	1.34	8.12	6.3	36
DD023146		0.25	0.003	1.42	1.01	37.1	<0.2	<10	700	0.57	0.20	0.27	0.67	12.35	5.9	29
DD023147		0.23	0.003	1.68	0.69	26.6	<0.2	<10	1270	0.62	0.16	0.25	0.70	10.85	5.1	24
DD023148		0.24	0.004	1.46	0.91	24.2	<0.2	<10	2470	0.71	0.18	0.98	0.56	11.15	5.0	28
DD023149		0.17	0.007	1.69	0.50	25.4	<0.2	10	1550	0.65	0.15	1.54	1.03	5.99	3.6	22
DD023150		0.22	0.007	2.57	0.42	35.4	<0.2	10	980	0.60	0.17	1.39	2.15	6.75	5.5	26

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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023111		1.99	44.3	3.38	2.73	0.07	0.10	3.37	0.037	0.09	12.1	8.3	0.16	324	10.65	0.03
DD023112		2.20	32.6	4.03	4.07	0.07	0.09	20.1	0.046	0.10	9.8	12.6	0.16	554	10.70	0.02
DD023113		3.43	47.1	4.80	2.86	0.09	0.05	0.81	0.048	0.08	12.0	6.6	0.12	331	21.7	0.02
DD023114		2.38	25.1	2.97	4.30	0.05	0.03	0.24	0.035	0.05	9.3	11.4	0.14	191	10.50	0.02
DD023115		1.66	33.8	4.38	4.70	0.06	<0.02	0.08	0.044	0.07	8.1	5.8	0.10	532	6.90	0.02
DD023116		1.67	27.7	3.48	4.25	<0.05	<0.02	0.09	0.035	0.07	10.8	14.2	0.30	921	4.10	<0.01
DD023117		1.24	34.5	4.72	3.81	0.06	0.08	0.19	0.034	0.07	14.0	14.7	0.99	1700	2.47	0.01
DD023118		1.74	26.5	3.46	5.33	<0.05	0.05	0.04	0.038	0.06	16.3	17.1	0.51	608	2.37	0.01
DD023119		1.45	29.5	3.57	4.01	<0.05	0.04	0.05	0.042	0.08	12.6	10.6	0.22	435	5.80	<0.01
DD023120		1.87	30.2	2.98	3.47	<0.05	<0.02	0.03	0.042	0.09	8.7	7.5	0.13	313	6.11	<0.01
DD023121		1.78	15.8	3.16	4.72	<0.05	<0.02	0.02	0.035	0.06	11.9	15.0	0.30	515	2.60	<0.01
DD023122		1.94	18.1	2.78	2.89	0.05	0.05	0.05	0.037	0.07	13.8	6.4	0.15	502	7.07	<0.01
DD023123		1.94	12.6	3.13	6.27	<0.05	0.04	0.01	0.043	0.05	15.0	13.3	0.22	234	2.77	<0.01
DD023124		0.98	27.0	2.61	1.70	<0.05	0.04	0.13	0.034	0.09	21.3	3.9	0.11	251	12.15	0.01
DD023125		0.50	23.7	2.14	2.38	<0.05	0.04	0.10	0.024	0.05	12.7	5.5	0.17	216	5.90	0.01
DD023126		1.23	25.4	3.59	5.79	<0.05	0.05	0.06	0.030	0.10	3.7	13.2	0.18	678	0.81	<0.01
DD023127		2.09	37.0	4.50	5.72	<0.05	0.05	0.02	0.038	0.09	6.1	36.3	0.42	775	0.95	<0.01
DD023128		8.44	29.5	2.73	3.00	<0.05	<0.02	0.31	0.029	0.07	6.4	6.2	0.12	205	4.56	<0.01
DD023129		7.16	46.6	2.52	1.91	<0.05	0.05	0.90	0.035	0.08	6.7	4.3	0.10	253	4.51	<0.01
DD023130		3.83	43.5	2.37	1.86	<0.05	0.05	0.59	0.034	0.07	7.6	5.8	0.18	168	3.17	0.01
DD023131		7.31	67.1	2.64	1.98	0.05	0.05	0.20	0.043	0.14	5.4	2.6	0.05	202	21.1	0.01
DD023132		2.44	30.6	2.31	3.25	<0.05	0.03	0.48	0.025	0.07	12.2	11.7	0.26	462	1.85	0.01
DD023133		2.39	27.7	2.27	3.02	<0.05	0.03	1.13	0.028	0.08	13.3	11.7	0.28	520	2.02	0.01
DD023134		3.50	41.4	2.83	3.85	0.05	0.09	34.8	0.038	0.11	15.3	18.1	0.90	575	2.83	0.01
DD023135		2.77	27.9	1.59	1.92	0.05	0.03	0.38	0.017	0.07	10.2	10.9	0.33	339	2.01	0.01
DD023136		1.79	29.0	2.96	3.37	<0.05	0.03	0.50	0.031	0.08	15.7	12.4	0.39	742	4.42	0.01
DD023137		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023138		1.00	21.3	3.27	3.71	0.05	0.02	1.15	0.032	0.06	15.6	9.9	0.31	1830	7.36	0.01
DD023139		1.75	29.2	2.36	2.14	<0.05	0.05	0.47	0.025	0.06	7.2	4.1	0.10	158	5.03	0.01
DD023140		1.04	36.6	2.39	1.76	<0.05	0.05	0.30	0.025	0.06	6.6	3.5	0.07	123	5.89	0.01
DD023141		1.00	43.1	2.81	1.65	0.06	0.05	0.32	0.034	0.09	6.1	3.1	0.10	103	11.20	0.01
DD023142		2.77	21.4	2.72	4.58	<0.05	<0.02	0.07	0.031	0.06	7.5	7.9	0.19	351	3.19	<0.01
DD023143		3.26	18.0	2.33	4.94	<0.05	<0.02	0.17	0.027	0.09	8.6	2.5	0.04	52	3.34	<0.01
DD023144		3.12	24.9	2.14	2.56	<0.05	<0.02	0.16	0.027	0.06	6.0	4.1	0.08	210	2.33	0.01
DD023145		3.57	71.2	3.33	1.48	0.05	0.03	0.37	0.037	0.11	5.3	2.1	0.05	172	6.50	0.01
DD023146		2.21	34.6	2.85	3.17	<0.05	<0.02	0.07	0.031	0.09	6.2	6.6	0.17	232	5.41	0.01
DD023147		1.29	51.5	2.57	1.86	0.05	0.02	0.13	0.025	0.08	6.0	4.4	0.10	136	5.89	0.01
DD023148		1.40	32.7	2.36	2.84	<0.05	0.05	0.14	0.031	0.05	7.3	4.7	0.11	254	6.15	0.01
DD023149		0.55	34.3	2.16	1.58	<0.05	0.06	0.18	0.031	0.07	4.1	2.6	0.05	105	7.24	0.01
DD023150		1.49	55.6	3.00	1.12	0.06	0.07	0.23	0.035	0.10	4.4	1.9	0.05	98	8.80	0.01

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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023111		0.29	138.5	1440	173.5	9.5	0.001	0.10	5.27	4.4	3.9	0.5	64.4	0.01	0.07	1.7
DD023112		0.36	112.5	1120	467	13.7	0.001	0.06	14.30	4.6	3.4	0.6	43.5	<0.01	0.08	2.1
DD023113		0.40	228	1370	222	11.8	0.001	0.09	7.16	3.7	5.1	0.5	111.0	0.01	0.10	2.4
DD023114		0.48	93.9	1140	101.0	12.5	<0.001	0.05	3.08	1.4	2.2	0.6	47.7	<0.01	0.06	0.6
DD023115		0.28	38.6	1700	45.2	11.0	0.001	0.07	2.89	0.7	1.7	0.6	10.8	<0.01	0.07	0.2
DD023116		0.38	42.7	1260	46.3	13.6	<0.001	0.05	1.80	1.7	1.6	0.5	21.5	<0.01	0.04	0.5
DD023117		0.32	35.2	780	66.1	10.2	0.001	0.03	1.33	5.7	1.2	0.6	21.5	<0.01	0.05	3.5
DD023118		0.96	35.8	730	23.9	12.1	<0.001	0.03	1.21	4.1	1.6	0.6	18.3	<0.01	0.05	2.2
DD023119		0.43	31.0	1770	27.0	8.9	0.001	0.08	2.21	2.2	1.8	0.6	16.2	<0.01	0.06	0.8
DD023120		0.26	28.9	2190	16.5	15.3	0.001	0.09	2.32	0.5	1.2	0.5	20.0	<0.01	0.07	0.2
DD023121		0.43	20.0	1280	17.9	12.4	0.001	0.05	1.02	0.7	0.7	0.6	15.7	<0.01	0.06	0.3
DD023122		0.41	30.2	1090	17.1	13.7	<0.001	0.08	4.02	2.4	1.4	0.4	27.0	<0.01	0.07	1.2
DD023123		0.96	21.2	770	16.2	9.6	0.001	0.04	0.95	2.5	1.0	0.7	34.6	<0.01	0.03	1.4
DD023124		0.26	60.2	1270	15.1	7.8	0.002	0.10	4.52	2.7	3.8	0.3	66.1	<0.01	0.04	0.8
DD023125		0.38	39.0	1550	10.4	7.1	0.001	0.15	4.09	1.3	3.8	0.3	48.2	<0.01	0.03	0.5
DD023126		0.30	13.4	860	26.0	12.9	<0.001	0.06	0.47	2.1	0.7	0.8	5.7	<0.01	0.05	2.2
DD023127		0.35	28.4	640	32.8	13.4	<0.001	0.03	0.35	3.8	0.8	0.7	9.7	<0.01	0.04	3.3
DD023128		0.32	43.5	1240	50.3	15.2	0.001	0.07	2.28	0.7	2.4	0.4	19.4	<0.01	0.06	0.2
DD023129		0.22	47.1	690	49.4	11.2	0.001	0.05	2.99	3.7	2.7	0.4	37.6	<0.01	0.09	2.0
DD023130		0.22	39.2	880	73.7	9.1	0.002	0.10	2.54	3.1	3.1	0.4	59.7	<0.01	0.05	1.2
DD023131		0.22	61.1	1920	26.8	13.0	0.005	0.23	6.83	2.4	10.9	0.5	101.0	<0.01	0.11	1.0
DD023132		0.41	42.6	1280	47.4	8.6	0.001	0.15	3.12	2.4	1.8	0.4	37.2	<0.01	0.05	0.2
DD023133		0.39	47.3	1430	44.5	8.1	0.001	0.15	8.60	3.0	2.2	0.5	45.7	<0.01	0.05	0.3
DD023134		0.48	76.8	1310	354	10.0	0.001	0.10	105.0	4.7	3.8	0.6	59.0	<0.01	0.06	1.0
DD023135		0.24	68.5	870	30.9	5.6	0.001	0.05	2.32	3.5	2.2	0.4	135.0	<0.01	0.04	0.6
DD023136		0.57	58.8	1310	58.7	7.8	0.002	0.10	4.25	6.1	3.1	0.5	56.7	<0.01	0.06	0.7
DD023137		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023138		0.50	46.9	1180	58.7	8.8	0.001	0.16	3.37	7.8	4.2	0.6	40.1	0.01	0.08	0.2
DD023139		0.29	44.4	1380	11.9	6.4	0.002	0.10	1.51	3.1	4.3	0.4	169.5	<0.01	0.05	0.6
DD023140		0.23	55.6	1500	10.7	5.4	0.002	0.13	1.88	3.1	5.2	0.4	224	<0.01	0.10	0.4
DD023141		0.17	87.8	1460	11.5	6.9	0.002	0.17	2.21	4.8	7.6	0.5	205	<0.01	0.11	0.7
DD023142		0.45	27.4	870	13.9	12.6	0.002	0.06	0.92	0.9	1.7	0.6	25.2	<0.01	0.09	<0.2
DD023143		0.82	15.7	610	12.1	11.3	0.001	0.16	1.18	2.2	1.6	0.8	35.0	<0.01	0.08	1.6
DD023144		0.18	30.3	2910	9.4	9.7	0.005	0.15	0.87	0.4	3.0	0.4	58.7	<0.01	0.07	<0.2
DD023145		0.15	89.1	2330	12.9	10.4	0.003	0.17	1.70	6.3	4.6	0.4	115.0	<0.01	0.15	1.0
DD023146		0.31	45.2	1410	12.5	9.4	0.002	0.15	1.15	1.7	6.1	0.5	82.4	<0.01	0.14	0.4
DD023147		0.26	63.1	1350	10.6	8.3	0.002	0.15	1.29	4.4	4.5	0.4	106.5	<0.01	0.13	1.6
DD023148		0.39	53.4	1400	11.3	7.8	0.002	0.12	1.16	2.9	4.7	0.5	120.5	<0.01	0.06	0.4
DD023149		0.18	54.3	890	10.1	5.4	0.002	0.14	1.35	3.3	5.6	0.4	172.5	<0.01	0.08	0.4
DD023150		0.11	83.1	1980	12.4	7.1	0.005	0.18	2.18	5.5	8.3	0.4	323	<0.01	0.08	1.4

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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
DD023111		<0.005	4.09	3.61	238	0.30	36.0	1160	2.7
DD023112		<0.005	4.72	2.92	246	0.37	24.6	1120	2.3
DD023113		0.007	4.60	4.85	356	0.42	34.0	1240	1.2
DD023114		0.006	2.32	1.94	188	0.29	14.20	527	0.7
DD023115		0.005	0.54	1.56	101	0.13	6.80	279	<0.5
DD023116		0.010	0.73	1.58	83	0.19	11.40	318	<0.5
DD023117		<0.005	0.52	1.57	52	0.11	18.55	289	2.3
DD023118		0.021	0.27	1.53	65	0.23	11.65	161	1.3
DD023119		0.007	0.31	2.72	76	0.14	12.35	203	1.0
DD023120		<0.005	0.30	2.17	77	0.10	7.96	186	<0.5
DD023121		0.012	0.22	1.72	58	0.21	6.38	114	<0.5
DD023122		0.008	0.29	2.31	95	0.12	15.65	247	1.3
DD023123		0.013	0.29	1.17	78	0.20	7.87	83	1.2
DD023124		0.005	0.40	2.42	76	0.08	28.7	438	1.1
DD023125		0.006	0.21	2.66	97	0.12	16.35	230	1.2
DD023126		<0.005	0.09	0.72	26	<0.05	3.08	83	1.2
DD023127		<0.005	0.19	0.67	28	0.23	6.56	138	1.3
DD023128		<0.005	0.90	1.57	90	0.13	7.12	302	<0.5
DD023129		<0.005	0.63	1.42	63	0.15	12.85	335	1.6
DD023130		<0.005	0.45	1.53	59	0.14	16.65	272	1.8
DD023131		<0.005	1.06	3.88	125	0.22	13.05	373	1.5
DD023132		0.006	0.47	3.80	80	0.42	30.4	335	1.5
DD023133		0.007	0.55	3.30	92	0.38	37.0	410	1.1
DD023134		0.009	1.98	2.52	95	0.56	38.3	492	2.4
DD023135		0.006	0.32	5.05	56	0.53	29.7	317	0.8
DD023136		0.018	0.47	3.07	107	0.65	35.4	321	0.9
DD023137		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023138		0.016	0.31	1.90	125	0.50	72.3	380	0.6
DD023139		0.006	0.33	2.86	79	0.17	27.1	189	1.8
DD023140		<0.005	0.22	2.88	76	0.13	37.1	193	1.9
DD023141		<0.005	0.24	3.29	67	0.12	39.8	287	2.4
DD023142		0.017	0.18	1.38	56	0.21	7.06	110	<0.5
DD023143		0.016	0.29	1.06	71	0.20	5.42	63	<0.5
DD023144		<0.005	0.39	3.09	60	0.09	21.7	127	<0.5
DD023145		<0.005	0.42	4.05	66	0.05	36.4	275	1.5
DD023146		0.011	0.35	2.77	68	0.15	16.30	158	<0.5
DD023147		0.007	0.11	2.92	56	0.08	28.8	209	0.7
DD023148		0.007	0.15	4.23	67	0.12	23.1	147	2.0
DD023149		<0.005	0.11	3.94	49	0.05	21.9	192	2.2
DD023150		<0.005	0.26	4.10	59	0.08	35.5	301	2.4



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023151		0.29	0.008	4.45	0.42	42.2	<0.2	10	1660	0.71	0.18	1.32	2.21	6.57	4.5	34
DD023152		0.14	0.013	4.35	0.50	83.4	<0.2	10	2300	0.75	0.26	1.87	1.86	4.14	4.8	49
DD023153		0.21	0.120	3.31	0.70	447	<0.2	10	1180	1.93	0.29	1.22	6.28	9.05	19.9	25
DD023154		0.18	0.005	2.69	0.92	77.4	<0.2	<10	1720	0.75	0.22	0.70	0.96	9.19	5.4	45
DD023155		0.23	0.008	5.07	0.45	187.5	<0.2	10	350	0.70	0.31	0.18	19.35	9.78	7.2	27
DD023156		0.21	0.008	1.14	0.81	124.5	<0.2	<10	400	0.47	0.37	0.02	0.63	16.80	6.3	17
DD023157		0.27	0.008	1.31	0.55	34.8	<0.2	<10	300	0.64	0.30	<0.01	0.51	8.77	7.0	10
DD023158		0.16	0.007	0.95	0.47	46.9	<0.2	<10	500	0.66	0.31	0.04	1.32	17.05	9.1	9
DD023159		0.14	0.003	0.17	0.82	30.7	<0.2	<10	130	0.22	0.28	0.02	0.28	18.55	4.8	17
DD023160		0.21	0.006	0.49	0.90	298	<0.2	<10	360	0.70	0.25	0.98	1.48	23.7	7.2	16
DD023161		0.33	0.012	0.95	0.39	171.5	<0.2	<10	650	0.58	0.28	0.29	2.09	15.70	5.6	12
DD023162		0.20	0.007	0.77	1.10	968	<0.2	<10	450	0.96	0.22	1.19	5.37	24.4	9.3	18
DD023163		0.22	0.003	0.80	1.22	137.0	<0.2	<10	320	1.10	0.21	1.08	1.06	49.4	9.4	23
DD023164		0.30	0.001	0.14	1.93	102.0	<0.2	<10	690	1.28	0.19	0.91	0.37	54.1	13.4	44
DD023165		0.14	<0.001	0.05	1.83	27.5	<0.2	<10	270	0.79	0.21	0.57	0.26	34.9	13.5	52
DD023166		0.20	<0.001	0.09	1.65	35.2	<0.2	<10	330	0.97	0.16	0.31	0.41	45.5	20.0	45
DD023167		0.35	0.005	0.27	1.36	128.5	<0.2	<10	530	1.48	0.29	0.60	0.63	34.9	15.2	23
DD023168		Not Recvd														
DD023169		0.16	0.003	0.73	1.38	14.8	<0.2	<10	1700	1.32	0.24	0.64	0.36	52.3	14.0	21
DD023170		0.16	<0.001	0.42	1.16	19.5	<0.2	<10	280	0.99	0.26	1.36	0.90	38.4	10.7	18
DD023171		0.23	0.001	0.18	1.76	24.7	<0.2	<10	280	1.02	0.31	0.49	0.49	39.5	14.2	24
DD023172		0.18	0.002	0.58	0.95	40.1	<0.2	<10	190	0.85	0.29	1.84	2.35	28.5	12.5	16
DD023173		0.35	0.002	0.77	0.38	29	<0.2	<10	110	0.58	0.19	10.25	3.08	28.4	8.9	8
DD023174		0.21	0.001	1.03	0.63	20.4	<0.2	<10	190	0.76	0.19	2.05	4.80	30.8	8.3	11
DD023175		0.23	0.001	0.60	0.85	15.4	<0.2	<10	220	0.94	0.23	1.75	3.29	20.3	11.1	17
DD023176		0.30	0.002	0.21	1.32	11.6	<0.2	<10	1130	1.68	0.24	0.54	0.50	42.6	9.9	12
DD023177		0.29	0.002	0.46	1.44	48.4	<0.2	<10	300	1.25	0.29	0.70	1.37	28.6	11.1	22
DD023178		0.29	0.004	0.25	1.45	48.8	<0.2	<10	470	1.51	0.37	0.38	0.78	32.0	17.5	24
DD023179		0.18	<0.001	0.14	1.62	33.7	<0.2	<10	330	1.29	0.19	0.83	0.38	44.8	21.5	42
DD023180		0.31	0.001	0.06	1.74	23.1	<0.2	<10	270	1.10	0.23	0.42	0.32	40.2	14.4	29
DD023181		0.22	0.002	0.08	1.61	25.1	<0.2	<10	350	1.24	0.21	0.38	0.17	37.5	16.2	27
DD023182		0.22	0.001	0.07	1.79	45.2	<0.2	<10	220	0.90	0.23	0.58	0.58	26.8	13.1	32
DD023183		0.18	0.001	0.08	1.94	31.1	<0.2	<10	180	1.03	0.28	0.32	0.46	48.0	14.1	27
DD023184		0.35	0.002	0.09	2.22	18.5	<0.2	<10	370	1.21	0.20	0.79	0.41	67.7	21.4	18
DD023185		0.23	<0.001	0.03	1.87	17.6	<0.2	<10	210	0.76	0.18	0.09	0.11	24.2	16.6	13
DD023186		0.29	0.001	0.04	1.90	23.4	<0.2	<10	220	0.77	0.23	0.26	0.18	25.0	15.2	43
DD023187		0.24	0.006	0.45	1.36	240	<0.2	<10	230	1.25	0.24	2.38	1.19	51.4	13.3	23
DD023188		0.18	0.002	1.78	0.95	361	<0.2	<10	200	1.10	0.20	2.13	4.56	42.7	10.3	18
DD023189		0.20	0.001	0.12	0.81	25.4	<0.2	<10	270	0.86	0.14	0.39	0.36	27.7	19.7	20
DD023190		0.19	0.003	0.09	1.47	68.2	<0.2	<10	460	1.07	0.30	0.35	0.41	22.3	16.4	23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023151		1.20	57.1	2.55	1.37	0.05	0.05	0.29	0.038	0.08	5.0	1.9	0.04	90	7.90	0.01
DD023152		2.25	59.0	2.46	1.74	0.06	0.07	0.69	0.030	0.11	3.6	2.0	0.01	60	17.40	<0.01
DD023153		5.09	123.5	5.16	1.43	0.10	0.06	3.23	0.064	0.10	5.8	2.9	0.42	263	21.0	<0.01
DD023154		1.25	45.6	2.70	2.75	<0.05	0.04	0.25	0.033	0.09	5.2	4.2	0.07	187	10.40	<0.01
DD023155		3.70	109.0	3.95	1.56	0.08	<0.02	0.48	0.048	0.28	5.2	2.3	0.01	78	25.1	<0.01
DD023156		9.98	56.6	3.85	3.38	0.05	<0.02	0.22	0.053	0.18	7.1	3.5	0.09	207	5.80	0.01
DD023157		6.73	76.4	2.37	1.83	<0.05	0.02	0.20	0.043	0.15	3.7	1.8	0.02	114	4.36	<0.01
DD023158		8.67	68.5	2.42	1.72	0.05	<0.02	0.23	0.042	0.19	6.2	2.7	0.03	186	4.30	<0.01
DD023159		7.77	23.6	2.20	5.10	<0.05	<0.02	0.07	0.020	0.07	8.6	2.8	0.10	169	2.57	<0.01
DD023160		5.08	33.0	2.71	3.04	<0.05	0.03	0.29	0.032	0.11	11.1	6.4	0.11	235	5.26	<0.01
DD023161		6.04	50.5	2.79	1.86	<0.05	0.04	0.26	0.052	0.20	6.1	2.1	0.02	57	8.14	<0.01
DD023162		2.17	28.7	2.78	2.94	0.06	0.05	0.63	0.030	0.08	17.5	6.2	0.16	347	3.33	0.01
DD023163		0.95	25.1	3.22	3.07	0.07	0.04	0.18	0.034	0.08	23.1	7.6	0.21	409	3.53	<0.01
DD023164		1.07	18.3	4.60	5.33	0.07	0.06	0.05	0.048	0.08	22.9	10.5	0.28	666	1.21	<0.01
DD023165		1.18	17.8	4.85	5.69	0.05	0.02	0.04	0.047	0.14	11.7	15.0	0.30	701	1.28	<0.01
DD023166		0.95	24.1	5.52	3.91	0.07	0.05	0.06	0.043	0.07	16.4	13.6	0.27	603	2.50	<0.01
DD023167		1.10	66.2	4.17	3.33	0.08	0.04	0.14	0.047	0.09	20.4	15.2	0.31	715	2.34	<0.01
DD023168																
DD023169		0.94	34.2	3.54	3.45	0.07	0.09	0.10	0.042	0.11	22.1	13.7	0.36	446	1.63	<0.01
DD023170		0.48	28.4	3.18	3.37	<0.05	0.06	0.11	0.034	0.10	21.1	11.8	0.21	399	2.53	<0.01
DD023171		1.63	29.4	3.83	5.03	0.05	0.09	0.07	0.034	0.09	12.6	24.0	0.44	789	2.39	<0.01
DD023172		0.46	31.8	3.47	2.59	0.06	0.06	0.11	0.042	0.11	17.6	10.5	0.49	433	4.88	<0.01
DD023173		0.52	21.8	2.32	1.12	0.06	0.03	0.10	0.025	0.11	17.6	3.5	3.96	228	5.04	0.01
DD023174		0.36	23.1	2.56	1.67	0.07	0.04	0.13	0.026	0.08	22.0	5.4	0.10	290	4.88	0.01
DD023175		0.65	34.3	3.29	2.32	0.06	0.04	0.17	0.029	0.11	15.9	10.8	0.31	402	10.75	<0.01
DD023176		2.17	16.5	4.39	3.56	0.07	0.04	0.06	0.059	0.10	20.8	5.8	0.13	670	1.61	<0.01
DD023177		1.08	25.4	3.57	4.25	0.05	0.04	0.08	0.034	0.09	18.5	11.2	0.23	501	2.67	<0.01
DD023178		1.20	48.5	4.63	4.27	0.08	0.04	0.16	0.039	0.11	16.6	15.0	0.34	1030	2.05	<0.01
DD023179		1.22	24.9	5.50	3.65	0.07	0.06	0.09	0.040	0.07	18.2	10.9	0.18	1480	2.18	<0.01
DD023180		1.56	26.3	4.78	4.71	0.05	0.04	0.05	0.043	0.08	11.4	20.7	0.38	932	1.05	<0.01
DD023181		1.59	25.0	5.23	3.74	0.07	0.06	0.04	0.061	0.08	13.6	12.7	0.21	985	1.25	<0.01
DD023182		3.25	26.1	4.16	4.75	<0.05	0.04	0.05	0.038	0.08	8.1	12.9	0.17	376	1.90	<0.01
DD023183		1.03	32.2	3.95	4.42	0.05	0.05	0.05	0.039	0.09	14.3	16.4	0.35	469	1.94	<0.01
DD023184		1.02	29.5	6.29	5.84	0.10	0.05	0.13	0.050	0.09	29.9	24.9	0.49	843	2.53	<0.01
DD023185		1.05	22.5	5.25	5.25	<0.05	0.06	0.07	0.046	0.10	10.8	11.1	0.20	386	2.73	0.02
DD023186		1.63	25.3	5.09	5.42	<0.05	0.08	0.03	0.045	0.11	9.2	22.3	0.32	539	1.42	<0.01
DD023187		1.14	31.6	3.57	3.18	0.07	0.06	0.11	0.039	0.10	23.3	13.8	0.85	464	3.43	<0.01
DD023188		0.85	24.1	3.03	2.41	0.06	0.04	0.41	0.036	0.09	25.8	6.6	0.16	368	2.81	<0.01
DD023189		1.74	31.7	4.66	2.12	0.07	0.03	0.06	0.055	0.09	11.5	5.1	0.10	505	1.47	0.01
DD023190		1.57	29.0	4.86	4.26	0.05	0.05	0.06	0.052	0.13	8.3	15.0	0.25	691	2.24	0.04

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
DD023151		0.11	85.5	1510	11.9	6.2	0.007	0.12	1.88	5.9	9.1	0.4	265	<0.01	0.08	0.9
DD023152		0.06	89.1	1600	16.8	7.5	0.006	0.20	3.98	4.6	8.3	0.5	248	<0.01	0.17	0.5
DD023153		0.08	246	2120	70.8	7.9	0.007	0.11	9.00	11.0	8.7	0.8	149.0	<0.01	0.28	2.3
DD023154		0.18	67.9	2120	17.5	9.8	0.004	0.13	2.33	2.5	5.9	0.5	92.1	<0.01	0.10	0.6
DD023155		0.09	114.0	1650	38.8	17.6	0.006	0.57	7.79	5.1	6.7	0.5	213	<0.01	0.17	2.7
DD023156		0.33	34.9	1270	24.4	21.9	0.003	0.27	3.01	1.2	2.7	0.7	49.6	<0.01	0.13	0.5
DD023157		0.15	34.2	910	16.6	17.3	0.004	0.11	2.72	2.4	2.9	0.5	30.2	<0.01	0.11	1.2
DD023158		0.11	32.7	760	25.5	19.2	0.003	0.17	2.69	3.1	2.2	0.5	37.0	<0.01	0.10	1.8
DD023159		0.25	16.1	680	13.3	15.6	0.002	0.05	1.09	0.4	0.9	0.8	10.4	<0.01	0.07	<0.2
DD023160		0.26	44.6	1110	22.8	12.1	0.002	0.13	2.29	2.7	1.8	0.5	38.7	<0.01	0.07	1.1
DD023161		0.08	44.5	910	22.2	16.8	0.002	0.38	3.71	4.3	2.7	0.7	127.0	<0.01	0.12	4.3
DD023162		0.30	73.6	1480	51.2	9.0	0.003	0.13	2.44	2.4	2.7	0.5	46.1	<0.01	0.06	0.8
DD023163		0.33	45.8	960	27.0	10.2	0.002	0.05	1.60	3.4	2.2	0.4	32.8	<0.01	0.06	1.1
DD023164		0.41	40.2	1220	14.4	11.4	0.002	0.03	0.56	5.3	1.0	0.7	23.4	<0.01	0.04	1.7
DD023165		0.41	39.7	1350	12.7	14.0	0.002	0.02	0.38	4.1	0.6	0.7	23.6	<0.01	0.04	1.4
DD023166		0.23	65.0	860	11.8	10.4	0.002	0.02	0.49	6.9	0.7	0.6	12.6	<0.01	0.05	2.2
DD023167		0.12	77.3	1270	22.8	8.2	0.004	0.01	1.25	8.9	2.1	0.5	23.9	<0.01	0.07	4.5
DD023168																
DD023169		0.13	43.1	610	14.9	11.2	0.002	0.01	0.76	4.9	1.1	0.4	15.2	<0.01	0.04	3.3
DD023170		0.26	33.3	1040	16.8	9.0	0.002	0.06	1.35	3.4	1.2	0.4	36.5	<0.01	0.05	1.5
DD023171		0.54	34.1	910	21.0	12.2	0.003	0.04	1.32	4.1	0.9	0.6	20.8	<0.01	0.05	2.3
DD023172		0.19	48.0	860	20.4	6.9	0.004	0.05	2.68	3.5	1.5	0.4	52.4	0.01	0.04	1.6
DD023173		0.07	41.0	450	12.6	5.5	0.002	0.03	2.38	4.2	1.4	0.2	265	<0.01	0.02	3.0
DD023174		0.15	40.6	1040	11.9	5.5	0.003	0.10	3.61	2.4	2.4	0.3	74.1	<0.01	0.06	0.7
DD023175		0.13	55.1	750	14.2	7.1	0.002	0.08	5.49	3.3	2.2	0.3	37.7	<0.01	0.05	0.9
DD023176		0.33	22.5	1090	16.8	11.3	0.002	0.03	0.52	3.6	1.2	0.7	26.5	<0.01	0.04	1.8
DD023177		0.34	36.2	940	20.8	12.1	0.002	0.04	1.24	3.8	1.2	0.6	36.3	<0.01	0.05	1.5
DD023178		0.18	44.6	1060	35.5	11.5	0.002	0.01	0.87	8.8	1.3	0.6	22.6	<0.01	0.06	5.7
DD023179		0.27	72.1	970	15.0	9.7	0.003	0.05	0.50	6.9	0.9	0.5	33.8	<0.01	0.04	1.8
DD023180		0.27	30.6	1230	15.8	9.5	0.003	0.02	0.40	4.2	0.6	0.6	22.4	<0.01	0.06	1.9
DD023181		0.36	40.6	1160	12.9	9.7	0.002	0.04	0.44	6.2	0.8	0.6	20.0	<0.01	0.06	2.3
DD023182		0.41	42.0	1360	27.6	10.7	0.002	0.04	0.70	3.1	0.8	0.6	24.5	<0.01	0.07	1.1
DD023183		0.42	41.6	940	20.3	11.3	0.002	0.02	0.88	3.1	1.1	0.5	15.4	<0.01	0.06	1.6
DD023184		0.49	28.1	1940	13.7	9.7	0.003	0.02	0.57	5.9	1.3	0.7	23.5	<0.01	0.06	2.6
DD023185		0.35	16.6	1410	10.2	8.3	0.002	0.14	0.30	2.8	0.4	0.9	45.5	<0.01	0.02	1.2
DD023186		0.38	35.4	1280	15.7	12.9	0.002	0.08	0.42	3.5	0.6	0.6	13.7	<0.01	0.05	1.6
DD023187		0.21	66.3	790	19.3	11.1	0.002	0.03	1.33	4.8	2.4	0.4	46.2	<0.01	0.06	2.3
DD023188		0.27	58.5	1070	72.0	10.3	0.003	0.09	1.79	3.0	1.7	0.4	54.2	<0.01	0.04	1.2
DD023189		0.18	75.8	1370	12.1	8.5	<0.001	0.04	0.47	6.9	0.7	0.5	22.9	<0.01	0.05	1.4
DD023190		0.31	38.2	910	35.8	12.6	<0.001	0.18	0.78	4.3	0.8	0.6	23.5	<0.01	0.07	2.2

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
DD023151		<0.005	0.25	3.11	66	0.12	39.0	261	2.9
DD023152		<0.005	1.12	7.99	74	0.21	29.5	283	3.4
DD023153		<0.005	1.85	4.99	81	0.97	61.6	1280	2.2
DD023154		<0.005	0.42	4.60	103	0.18	15.20	312	1.3
DD023155		<0.005	1.33	7.50	150	0.19	21.1	633	0.7
DD023156		0.011	0.74	1.58	68	0.14	5.13	215	<0.5
DD023157		<0.005	0.46	1.62	42	0.05	8.65	210	0.5
DD023158		<0.005	0.50	1.53	42	0.05	12.20	212	<0.5
DD023159		0.012	0.34	0.57	63	0.16	2.55	86	<0.5
DD023160		0.006	0.94	1.51	81	0.12	12.20	316	0.7
DD023161		<0.005	1.49	1.12	85	0.14	7.87	319	1.3
DD023162		0.005	3.35	2.35	132	0.13	24.7	653	1.3
DD023163		0.007	0.57	1.30	76	0.10	19.95	225	1.0
DD023164		0.005	0.43	0.75	59	0.06	15.25	144	1.2
DD023165		0.010	0.17	0.60	53	0.09	6.03	110	0.6
DD023166		<0.005	0.30	0.81	47	0.05	11.20	114	1.4
DD023167		<0.005	0.22	1.63	47	<0.05	25.8	279	1.4
DD023168									
DD023169		<0.005	0.21	1.23	32	<0.05	17.50	124	2.3
DD023170		<0.005	0.19	0.96	46	0.06	16.65	127	1.6
DD023171		0.011	0.20	1.00	52	0.18	8.96	113	2.3
DD023172		0.006	0.41	1.10	55	0.09	16.30	295	1.6
DD023173		<0.005	0.44	1.55	52	<0.05	15.65	251	0.9
DD023174		0.005	0.29	1.46	52	0.06	22.0	274	1.0
DD023175		<0.005	0.54	2.69	59	0.05	20.2	244	1.2
DD023176		<0.005	0.43	0.86	27	0.09	19.40	121	1.4
DD023177		0.007	0.30	1.19	50	0.10	17.55	203	1.1
DD023178		<0.005	0.26	1.87	39	0.06	24.6	218	1.2
DD023179		<0.005	0.25	0.72	42	0.05	12.45	106	1.7
DD023180		0.005	0.14	0.62	41	0.06	6.60	96	1.4
DD023181		0.005	0.16	0.55	38	0.10	12.35	86	1.7
DD023182		0.006	0.25	0.90	48	0.08	5.72	139	1.1
DD023183		0.008	0.20	0.98	51	0.12	9.33	140	1.2
DD023184		0.006	0.13	0.80	55	0.22	18.10	130	1.4
DD023185		<0.005	0.14	0.48	48	0.07	3.03	97	1.3
DD023186		0.005	0.26	0.45	49	0.07	4.61	87	1.9
DD023187		<0.005	1.18	1.26	79	0.06	20.7	447	1.5
DD023188		0.005	0.75	0.84	64	0.13	22.4	654	1.2
DD023189		<0.005	0.31	0.69	21	0.07	11.15	110	0.6
DD023190		<0.005	0.43	0.90	37	0.08	5.40	131	1.4



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023191		0.18	0.001	1.03	0.73	15.8	<0.2	<10	190	1.11	0.25	0.87	2.47	49.4	11.0	13
DD023192		0.28	0.001	0.12	1.35	25.8	<0.2	<10	390	1.33	0.15	0.58	0.28	57.6	17.2	46
DD023193		0.18	0.003	0.28	0.49	118.5	<0.2	<10	220	0.70	0.07	0.72	1.03	17.20	25.3	21
DD023194		0.17	0.004	0.03	2.01	18.7	<0.2	<10	220	0.99	0.20	0.28	0.09	31.5	13.5	52
DD023195		0.26	0.001	0.07	1.04	137.0	<0.2	<10	790	1.42	0.11	0.75	0.11	65.5	21.4	76
DD023196		0.18	0.002	0.48	1.07	20.5	<0.2	<10	290	1.23	0.21	1.38	1.16	37.0	8.1	15
DD023197		0.22	0.002	0.79	0.62	19.3	<0.2	<10	220	1.13	0.21	3.51	0.96	40.9	10.8	12
DD023198		0.19	0.006	0.18	0.76	25.1	<0.2	<10	700	1.75	0.17	0.49	0.44	40.7	11.6	13
DD023199		0.18	<0.001	0.11	1.52	28.0	<0.2	<10	250	0.97	0.23	0.71	0.38	28.3	16.8	33
DD023200		0.13	0.002	0.49	1.22	273	<0.2	<10	230	1.00	0.22	2.70	4.52	38.3	8.9	19
DD023201		0.22	0.001	0.63	0.84	301	<0.2	<10	200	0.97	0.19	2.64	2.21	41.4	8.9	15
DD023202		0.21	0.004	0.98	1.15	818	<0.2	<10	200	1.31	0.21	1.01	7.69	43.2	12.9	21
DD023203		0.23	0.002	0.65	1.47	220	<0.2	<10	290	1.07	0.26	0.59	4.27	31.3	9.9	27
DD023204		0.19	0.003	0.26	0.95	306	<0.2	<10	520	0.89	0.27	0.27	2.93	17.70	8.8	17
DD023205		0.20	0.004	0.49	1.22	177.5	<0.2	<10	350	1.22	0.26	0.19	1.84	30.2	11.0	22
DD023206		0.22	0.006	0.91	1.77	90.9	<0.2	<10	380	1.09	0.29	0.08	1.87	29.6	11.8	29
DD023207		0.14	0.012	8.74	0.87	219	<0.2	<10	1490	1.44	0.24	1.17	27.2	11.75	8.2	98
DD023208		0.18	0.002	1.20	0.50	51.7	<0.2	<10	1600	0.74	0.27	0.25	1.18	6.44	7.3	25
DD023209		0.12	0.003	2.16	0.72	89.1	<0.2	<10	2180	0.89	0.20	1.14	3.62	14.20	7.5	36
DD023210		0.17	0.006	1.15	0.75	145.0	<0.2	<10	1530	0.73	0.20	0.41	2.33	10.20	7.5	23
DD023211		0.21	0.006	1.21	0.54	47.9	<0.2	<10	1070	0.52	0.19	0.16	1.52	8.89	5.9	22
DD023212		0.23	0.003	0.79	1.22	51.0	<0.2	<10	440	0.70	0.22	0.14	0.95	20.1	8.2	29
DD023213		0.21	0.008	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023214		0.24	0.006	2.80	0.43	20.6	<0.2	<10	1180	0.61	0.17	0.97	0.86	8.10	4.7	29
DD023215		0.23	0.006	2.81	0.70	15.6	<0.2	<10	950	0.78	0.19	1.23	0.44	9.96	4.8	28
DD023216		0.18	0.002	0.28	0.51	9.3	<0.2	<10	290	0.19	0.30	0.38	0.26	15.10	3.5	14
DD023217		0.17	0.003	0.14	0.54	15.4	<0.2	<10	870	0.35	0.19	0.93	0.20	8.75	4.2	15
DD023218		0.19	0.001	0.14	1.04	41.1	<0.2	<10	160	0.43	0.28	0.64	0.42	23.0	5.0	23
DD023219		0.18	0.002	0.12	1.34	42.3	<0.2	<10	170	0.48	0.29	0.22	0.30	22.7	6.4	28
DD023220		0.13	0.001	0.94	0.67	22.0	<0.2	<10	580	0.53	0.23	1.27	0.54	28.2	6.3	21
DD023221		0.17	0.002	0.37	0.85	89.2	<0.2	<10	660	0.68	0.21	2.90	1.92	19.35	8.7	23
DD023222		0.20	0.001	0.12	1.43	55.8	<0.2	<10	250	0.59	0.25	0.30	0.33	21.7	7.3	27
DD023223		0.15	0.003	0.57	0.64	61.6	<0.2	<10	270	0.52	0.19	2.00	1.79	15.10	5.8	25
DD023224		0.28	0.001	0.42	0.90	116.0	<0.2	<10	520	0.57	0.20	0.64	0.69	12.15	6.3	23
DD023225		0.14	0.002	0.59	1.09	28.6	<0.2	<10	440	0.69	0.27	0.64	0.45	19.70	7.0	23
DD023226		0.24	0.002	0.29	1.03	137.5	<0.2	<10	350	0.70	0.25	1.41	1.04	20.5	9.2	26
DD023227		0.16	<0.001	0.12	1.09	105.0	<0.2	<10	210	0.56	0.22	2.09	3.10	23.2	8.1	25
DD023228		0.20	0.002	0.18	0.49	560	<0.2	<10	120	0.12	0.26	0.09	0.34	12.30	2.4	23
DD023229		0.17	0.002	0.13	0.46	24.7	<0.2	<10	130	0.24	0.29	0.15	0.27	10.60	3.0	15
DD023230		0.23	0.002	0.22	0.39	144.0	<0.2	<10	120	0.33	0.22	0.70	1.13	13.60	6.5	16



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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023191		0.77	26.2	3.31	2.17	0.11	0.04	0.13	0.039	0.08	36.2	4.2	0.10	363	5.94	0.01
DD023192		1.11	24.8	4.64	4.07	0.11	0.04	0.04	0.059	0.10	25.6	9.0	0.20	671	1.65	0.02
DD023193		0.43	29.9	7.25	0.88	0.08	0.03	0.13	0.039	0.06	7.2	2.1	0.04	462	6.22	0.01
DD023194		1.59	20.6	4.64	6.02	0.05	0.07	0.03	0.054	0.09	11.9	20.9	0.34	457	1.17	0.01
DD023195		1.42	19.8	5.76	3.33	0.14	0.02	0.05	0.075	0.13	31.3	3.5	0.09	777	0.92	0.04
DD023196		0.44	26.8	2.65	2.78	0.08	0.09	0.10	0.038	0.08	22.0	5.7	0.13	452	3.18	0.01
DD023197		0.28	30.9	2.82	1.74	0.09	0.06	0.10	0.036	0.14	24.2	4.3	0.50	301	2.85	0.01
DD023198		1.38	17.6	4.74	2.09	0.10	0.03	0.10	0.078	0.13	15.5	5.0	0.10	449	1.66	0.03
DD023199		1.79	29.8	5.63	3.84	0.06	0.05	0.06	0.047	0.09	9.8	24.3	0.28	621	1.92	0.02
DD023200		0.73	18.7	2.53	2.80	0.08	0.04	0.17	0.030	0.07	22.1	7.4	0.21	626	2.00	0.02
DD023201		0.82	20.8	2.58	2.26	0.09	0.04	0.12	0.029	0.08	26.6	6.6	0.17	410	2.23	0.01
DD023202		1.06	20.7	4.10	3.01	0.09	0.08	0.32	0.036	0.08	21.1	8.5	0.21	476	10.90	0.01
DD023203		1.49	25.9	3.48	4.56	0.07	0.05	0.53	0.035	0.08	16.7	12.5	0.31	586	6.86	0.02
DD023204		4.86	39.2	2.97	3.37	0.05	0.04	0.10	0.038	0.10	7.7	8.4	0.18	442	4.22	0.02
DD023205		2.88	41.7	3.76	3.72	0.06	0.03	0.10	0.047	0.09	11.6	10.6	0.19	659	4.61	0.02
DD023206		3.25	37.7	3.97	5.11	0.06	0.02	0.12	0.046	0.07	11.1	18.7	0.34	486	3.31	0.02
DD023207		3.16	138.0	3.99	2.84	0.11	0.06	0.44	0.061	0.12	9.1	4.3	0.09	267	36.1	0.07
DD023208		1.93	45.8	3.43	1.63	0.05	0.02	0.05	0.044	0.10	3.2	1.5	0.02	84	10.95	0.07
DD023209		1.16	39.9	3.17	2.05	0.07	0.03	0.16	0.036	0.07	7.2	3.0	0.05	516	9.37	0.10
DD023210		1.27	30.7	3.15	2.44	<0.05	0.03	0.12	0.034	0.11	5.0	5.0	0.10	633	6.06	0.07
DD023211		1.62	32.0	2.75	1.92	0.05	<0.02	0.06	0.030	0.10	4.6	2.7	0.07	165	6.22	0.05
DD023212		2.17	31.5	3.20	3.47	0.07	0.02	0.08	0.031	0.08	10.5	9.4	0.21	298	4.35	0.02
DD023213		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023214		1.40	66.2	2.10	1.29	0.06	0.03	0.22	0.033	0.07	5.2	1.5	0.03	121	4.03	0.05
DD023215		2.13	54.3	2.13	1.89	0.06	0.06	0.24	0.036	0.09	7.4	3.2	0.09	204	3.34	0.04
DD023216		3.31	13.9	1.60	3.88	<0.05	<0.02	0.07	0.016	0.05	7.2	1.5	0.05	135	1.96	0.01
DD023217		2.88	20.1	1.70	2.52	<0.05	0.02	0.06	0.026	0.06	4.4	2.4	0.06	157	1.61	0.04
DD023218		1.41	15.0	2.02	4.52	0.05	<0.02	0.08	0.024	0.04	13.0	4.9	0.10	295	1.64	0.01
DD023219		1.99	19.3	2.92	5.93	<0.05	<0.02	0.09	0.032	0.05	9.9	9.4	0.20	258	2.09	0.01
DD023220		2.70	22.0	2.40	2.30	0.07	0.02	0.11	0.031	0.06	17.2	5.9	0.13	223	4.03	0.03
DD023221		0.92	20.3	2.15	2.52	0.10	0.03	0.13	0.030	0.06	26.4	6.1	0.15	645	1.05	0.03
DD023222		3.04	18.8	2.62	5.06	<0.05	<0.02	0.06	0.031	0.05	10.7	9.9	0.25	384	2.08	0.01
DD023223		1.11	31.0	1.82	2.08	0.08	0.03	0.14	0.030	0.07	21.3	4.2	0.13	300	4.59	0.02
DD023224		2.62	22.6	2.26	2.72	<0.05	0.04	0.09	0.031	0.07	7.0	5.2	0.11	195	2.81	0.02
DD023225		5.41	20.4	2.42	3.57	<0.05	0.03	0.07	0.036	0.07	11.0	7.8	0.18	347	1.40	0.01
DD023226		1.10	23.8	2.42	3.26	0.07	0.03	0.13	0.035	0.05	22.5	7.9	0.21	500	1.75	<0.01
DD023227		1.46	16.5	2.00	3.28	0.07	0.03	0.23	0.034	0.04	23.0	8.6	0.16	651	1.29	<0.01
DD023228		1.42	13.3	1.88	3.87	<0.05	<0.02	0.07	0.037	0.05	7.3	1.8	0.04	83	1.98	<0.01
DD023229		2.46	30.3	1.94	3.53	<0.05	<0.02	0.06	0.041	0.06	5.7	1.3	0.03	42	1.79	<0.01
DD023230		1.38	20.3	1.82	1.42	0.05	0.03	0.08	0.032	0.04	12.1	2.7	0.06	221	4.37	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023191		0.16	41.4	1020	17.9	9.8	0.001	0.04	2.61	5.6	2.4	0.4	24.9	<0.01	0.04	2.1
DD023192		0.29	57.9	1260	12.5	10.5	<0.001	0.02	0.40	10.0	1.1	0.7	27.2	<0.01	0.04	3.6
DD023193		0.08	153.0	620	7.3	3.6	0.001	0.02	0.58	9.7	1.3	0.4	61.5	<0.01	0.05	2.1
DD023194		0.48	39.0	1210	13.5	11.7	<0.001	0.03	0.40	4.1	0.4	0.8	17.2	<0.01	0.05	2.3
DD023195		0.15	64.9	2070	11.8	9.2	<0.001	0.02	0.20	12.2	1.5	0.6	142.5	<0.01	0.06	4.8
DD023196		0.22	37.9	1580	13.4	10.7	<0.001	0.09	1.37	2.8	2.0	0.4	32.8	<0.01	0.05	1.4
DD023197		0.10	48.4	1100	13.9	8.4	0.001	0.04	1.02	3.7	1.7	0.3	60.9	<0.01	0.04	1.7
DD023198		0.53	38.2	1120	14.1	6.0	<0.001	0.05	0.32	4.7	0.9	0.8	30.8	<0.01	0.05	3.0
DD023199		0.31	51.6	900	18.1	8.6	<0.001	0.05	0.52	5.2	0.7	0.5	30.0	<0.01	0.04	1.7
DD023200		0.39	37.7	1950	17.2	10.3	0.001	0.15	1.04	1.7	1.3	0.4	64.6	<0.01	0.04	0.6
DD023201		0.25	45.4	1260	18.0	8.4	0.001	0.11	1.18	1.7	2.0	0.4	64.7	<0.01	0.03	0.7
DD023202		0.29	154.0	1000	92.2	9.0	<0.001	0.06	2.90	4.1	2.8	0.4	42.6	<0.01	0.04	1.9
DD023203		0.46	60.6	1550	108.0	12.1	0.001	0.06	2.19	2.8	1.9	0.6	42.8	<0.01	0.05	1.0
DD023204		0.27	49.6	1410	32.0	17.7	<0.001	0.08	1.99	2.4	1.8	0.6	30.2	<0.01	0.10	1.1
DD023205		0.35	50.2	1330	41.7	12.3	<0.001	0.07	2.08	2.4	2.0	0.6	23.3	<0.01	0.07	1.0
DD023206		0.49	37.2	1320	31.4	12.2	<0.001	0.07	1.75	1.7	2.2	0.6	21.1	<0.01	0.08	0.6
DD023207		0.13	187.0	4270	36.8	12.8	0.008	0.25	8.83	3.7	14.0	0.6	215	<0.01	0.19	0.7
DD023208		0.06	121.0	1600	18.1	10.0	0.002	0.17	3.02	2.3	5.7	0.5	261	<0.01	0.18	0.8
DD023209		0.19	93.3	1980	17.5	7.9	0.002	0.12	2.29	2.4	7.4	0.5	173.5	<0.01	0.11	0.4
DD023210		0.16	53.0	1900	21.1	9.5	0.001	0.16	1.39	1.9	3.3	0.5	92.7	<0.01	0.08	0.3
DD023211		0.07	60.7	1710	11.9	8.5	0.001	0.14	1.46	0.5	3.9	0.4	77.7	<0.01	0.10	<0.2
DD023212		0.24	55.3	1750	13.6	11.4	0.001	0.13	1.24	1.2	3.9	0.5	55.8	<0.01	0.14	0.3
DD023213		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023214		0.05	76.9	1970	8.6	7.6	0.002	0.05	1.25	4.6	4.2	0.4	87.1	<0.01	0.10	1.3
DD023215		0.18	53.7	1610	10.3	11.5	0.003	0.20	1.15	3.5	5.3	0.4	79.6	<0.01	0.11	0.6
DD023216		0.51	15.8	660	9.8	11.5	<0.001	0.06	0.84	0.9	0.6	0.7	20.9	<0.01	0.08	<0.2
DD023217		0.43	25.8	740	9.7	7.8	<0.001	0.08	1.11	2.2	1.4	0.5	47.3	<0.01	0.09	0.8
DD023218		0.59	20.8	1230	11.0	6.2	<0.001	0.08	0.79	1.1	1.2	0.7	19.8	<0.01	0.06	0.2
DD023219		0.58	28.9	850	17.2	8.5	<0.001	0.05	0.96	1.1	1.6	0.7	14.8	<0.01	0.09	0.2
DD023220		0.41	33.2	940	13.1	10.2	0.001	0.09	0.90	2.6	2.6	0.4	33.9	<0.01	0.10	0.6
DD023221		0.28	33.7	1510	13.8	7.7	<0.001	0.17	0.75	1.1	2.6	0.4	32.4	<0.01	0.11	0.3
DD023222		0.39	30.1	930	13.1	11.6	<0.001	0.05	0.80	0.8	1.3	0.7	17.1	<0.01	0.08	0.2
DD023223		0.25	54.1	1710	11.9	7.6	0.001	0.12	0.93	1.9	4.4	0.5	42.0	<0.01	0.07	0.3
DD023224		0.24	44.0	700	12.1	12.2	0.001	0.07	1.08	2.0	1.9	0.5	36.2	<0.01	0.10	0.7
DD023225		0.50	28.8	790	16.7	13.4	0.004	0.06	0.80	2.8	1.7	0.5	22.8	<0.01	0.09	0.8
DD023226		0.40	35.9	1160	15.0	7.7	0.001	0.10	1.02	2.1	3.1	0.4	31.5	<0.01	0.15	0.5
DD023227		0.49	27.9	2240	13.6	6.9	<0.001	0.14	0.85	2.1	5.6	0.4	29.5	<0.01	0.15	0.4
DD023228		0.55	15.0	510	11.5	9.5	0.001	0.07	1.82	1.3	2.5	0.6	46.0	<0.01	0.12	0.4
DD023229		0.61	31.1	610	10.6	10.3	<0.001	0.07	1.39	1.3	3.2	0.7	8.4	<0.01	0.15	0.2
DD023230		0.26	33.2	1760	12.2	5.1	0.001	0.04	1.13	2.2	2.6	0.3	31.4	<0.01	0.30	1.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023191		<0.005	0.27	1.49	47	0.05	34.6	236	0.9
DD023192		0.005	0.15	0.94	42	0.07	19.80	140	0.9
DD023193		<0.005	0.36	0.41	26	<0.05	15.35	272	1.2
DD023194		0.006	0.13	0.51	51	0.08	5.34	88	1.6
DD023195		<0.005	0.07	0.67	41	<0.05	24.6	101	0.5
DD023196		<0.005	0.22	3.03	65	0.06	21.5	148	2.0
DD023197		<0.005	0.18	1.09	30	<0.05	22.5	172	1.3
DD023198		<0.005	0.48	0.38	16	0.08	13.15	142	0.9
DD023199		0.005	0.22	0.73	40	0.06	7.49	98	1.4
DD023200		0.010	0.48	1.32	67	0.11	19.00	476	1.0
DD023201		0.005	0.82	1.13	51	0.07	24.0	589	1.1
DD023202		0.005	1.55	1.55	115	0.20	28.0	1780	1.8
DD023203		0.011	1.39	2.21	146	0.20	18.40	622	1.2
DD023204		0.006	0.76	1.34	68	0.11	13.90	362	1.3
DD023205		0.007	0.33	2.12	65	0.13	12.30	357	0.8
DD023206		0.014	0.39	1.81	64	0.21	9.04	229	0.5
DD023207		<0.005	1.57	15.00	263	0.33	40.1	924	1.8
DD023208		<0.005	0.29	3.04	71	0.13	13.30	355	<0.5
DD023209		0.005	0.33	3.72	76	0.14	34.4	361	0.9
DD023210		<0.005	0.40	1.91	63	0.11	13.85	278	0.7
DD023211		<0.005	0.26	1.72	55	0.11	9.62	233	<0.5
DD023212		0.011	0.25	2.61	68	0.16	18.55	211	0.5
DD023213		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
DD023214		<0.005	0.13	3.31	51	<0.05	23.2	232	1.3
DD023215		<0.005	0.23	5.03	51	0.06	28.4	158	2.5
DD023216		0.025	0.18	0.74	55	0.22	3.31	77	<0.5
DD023217		0.011	0.19	0.68	37	0.14	4.66	82	1.0
DD023218		0.019	0.28	1.42	52	0.20	14.15	77	<0.5
DD023219		0.021	0.32	1.31	68	0.23	7.19	95	<0.5
DD023220		0.012	0.24	2.16	35	0.14	22.7	111	0.8
DD023221		0.006	0.37	1.56	41	0.11	47.1	179	0.6
DD023222		0.012	0.31	1.15	58	0.22	8.98	106	<0.5
DD023223		0.007	0.18	1.63	36	0.11	33.9	245	0.9
DD023224		0.005	0.44	1.28	44	0.09	10.95	151	1.1
DD023225		0.010	0.25	1.61	42	0.15	13.55	110	0.7
DD023226		0.010	0.36	2.37	46	0.14	44.1	132	0.8
DD023227		0.010	0.36	4.45	46	0.17	42.5	161	0.6
DD023228		0.018	0.87	1.22	52	0.17	6.54	36	<0.5
DD023229		0.011	0.24	0.85	49	0.17	4.13	137	<0.5
DD023230		0.008	0.53	2.66	27	0.06	26.2	135	0.8



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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023231		0.14	0.008	0.18	0.60	223	<0.2	<10	170	0.43	0.21	1.51	1.44	14.75	8.2	20
DD023232		0.20	0.004	1.20	0.37	32.7	<0.2	<10	620	0.54	0.20	0.76	0.62	8.27	7.6	12
DD023233		0.23	0.004	1.97	0.31	32.1	<0.2	10	560	0.45	0.23	0.55	0.50	6.00	5.6	16
DD023234		0.21	0.007	3.56	0.51	40.6	<0.2	<10	820	0.78	0.20	0.75	1.05	13.25	6.4	30
DD023235		0.24	0.003	1.52	0.50	23.3	<0.2	<10	1050	0.53	0.20	0.64	0.47	9.25	4.1	21
DD023236		0.25	0.008	0.72	1.30	45.1	<0.2	<10	600	0.74	0.22	0.37	0.94	27.4	9.4	30
DD023237		0.29	0.004	0.60	0.81	44.9	<0.2	<10	1470	0.63	0.19	0.22	1.32	11.75	5.2	21
DD023238		0.20	0.005	0.79	1.09	59.3	<0.2	<10	1450	0.73	0.22	0.35	1.41	18.05	7.6	27
DD023239		0.19	0.002	1.19	0.88	48.6	<0.2	<10	2210	0.88	0.19	0.59	1.44	15.85	6.5	29
DD023240		0.24	0.003	2.03	1.02	97.0	<0.2	<10	1210	0.87	0.25	0.25	5.59	17.45	6.9	60
DD023241		0.17	0.005	0.90	0.99	114.5	<0.2	<10	1320	0.91	0.19	1.26	3.52	28.3	7.8	19
DD023242		0.18	0.002	0.50	1.09	306	<0.2	<10	360	1.11	0.28	1.18	9.34	31.0	9.9	23
DD023243		0.21	0.002	0.37	1.13	243	<0.2	<10	200	0.93	0.25	0.55	8.37	37.1	12.7	23
DD023244		0.19	0.001	0.50	1.01	344	<0.2	<10	250	0.80	0.21	0.82	1.59	32.2	9.7	25
DD023245		0.14	0.002	0.22	1.65	84.0	<0.2	<10	200	1.21	0.21	0.80	0.84	67.8	11.9	24
DD023246		0.22	0.002	0.20	1.26	24.6	<0.2	<10	310	1.20	0.12	0.99	0.64	54.2	20.1	21
DD023247		0.21	0.002	1.06	0.65	21.2	<0.2	<10	310	1.05	0.19	2.08	2.28	41.2	10.0	12
DD023248		0.15	0.004	1.05	0.49	22.0	<0.2	<10	170	0.81	0.19	2.82	1.60	40.9	9.8	11
DD023249		0.18	0.001	0.64	0.35	19.0	<0.2	<10	110	0.66	0.17	9.74	0.97	37.3	7.9	7
DD023250		0.17	0.003	0.27	1.73	12.7	<0.2	<10	280	1.49	0.41	0.30	0.50	25.2	11.9	31
DD023251		0.30	<0.001	0.07	1.53	9.2	<0.2	<10	140	1.34	0.40	0.12	0.14	19.10	14.9	26
DD023252		0.38	0.003	0.34	0.93	24.1	<0.2	<10	220	1.02	0.33	1.53	0.89	24.2	16.6	19
DD023253		0.24	<0.001	0.53	0.58	32.8	<0.2	<10	350	0.72	0.17	8.83	1.71	13.20	5.0	9
DD023254		0.25	0.003	0.19	1.33	20.5	<0.2	<10	440	0.79	0.26	0.43	0.33	22.9	8.6	23
DD023255		0.25	0.004	0.35	1.35	26.4	<0.2	<10	220	0.89	0.29	0.39	0.58	30.5	12.3	25
DD023256		0.19	0.003	0.45	0.93	49.5	<0.2	<10	360	0.88	0.20	6.02	1.16	23.6	8.2	14
DD023257		0.28	<0.001	0.18	0.98	29.3	<0.2	<10	220	1.14	0.38	0.41	0.21	22.9	9.9	14
DD023258		0.26	0.001	0.10	0.96	41.9	<0.2	<10	120	1.21	0.42	0.23	0.65	19.60	14.3	14
DD023259		0.23	0.002	0.34	2.11	11.0	<0.2	<10	160	1.32	0.36	0.38	0.20	53.7	9.9	25
DD023260		0.25	0.002	0.10	1.82	20.5	<0.2	<10	100	1.38	0.41	0.13	0.31	47.7	16.1	25
DD023261		0.28	0.002	0.07	0.82	30.2	<0.2	<10	120	1.11	0.41	0.09	0.18	35.6	15.0	16
DD023262		0.23	0.002	0.19	0.88	17.1	<0.2	<10	180	1.03	0.39	0.39	0.20	29.0	13.7	15
DD023263		0.25	0.002	0.19	1.97	16.6	<0.2	<10	200	1.70	0.34	0.33	0.39	64.3	13.3	28
DD023264		0.25	0.002	0.21	0.83	21.5	<0.2	<10	180	0.93	0.36	0.61	0.22	28.8	14.5	15
DD023265		0.22	0.001	0.05	1.26	21.4	<0.2	<10	150	0.91	0.37	0.07	0.08	25.2	12.3	17
DD023266		0.25	0.002	0.18	0.79	18.5	<0.2	<10	110	1.12	0.36	0.27	0.22	27.2	16.8	18
DD023267		0.18	0.002	0.18	1.30	16.5	<0.2	<10	210	1.34	0.35	0.14	0.18	38.6	15.9	19
DD023268		0.24	0.001	0.26	0.92	32.5	<0.2	<10	170	0.84	0.34	1.32	0.29	22.1	9.9	15
DD023269		0.27	0.003	0.41	0.78	52.5	<0.2	10	240	0.57	0.21	5.30	0.92	18.35	10.5	14
DD023270		0.27	0.003	0.11	1.41	23.4	<0.2	<10	230	0.85	0.27	0.24	0.26	37.0	14.4	23





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023231		1.36	24.2	2.15	2.13	0.06	0.04	0.16	0.035	0.06	12.5	4.3	0.10	545	3.12	<0.01
DD023232		6.73	41.0	2.60	1.08	0.05	0.03	0.17	0.030	0.08	6.7	2.1	0.05	156	2.43	0.01
DD023233		3.51	62.6	3.02	1.07	0.06	0.04	0.21	0.052	0.17	3.3	1.6	0.02	72	5.03	0.01
DD023234		2.31	68.1	2.92	1.39	0.07	0.03	0.26	0.045	0.16	8.2	2.3	0.04	125	5.11	0.02
DD023235		1.27	40.7	2.29	1.70	<0.05	0.05	0.13	0.029	0.08	5.3	1.7	0.04	112	3.95	0.03
DD023236		1.39	28.2	2.80	3.71	0.06	0.03	0.08	0.035	0.07	12.7	11.3	0.33	381	2.69	0.01
DD023237		1.02	24.1	2.50	2.75	<0.05	0.02	0.07	0.031	0.07	6.2	4.9	0.11	213	4.74	0.04
DD023238		1.43	25.5	2.93	3.55	<0.05	0.02	0.10	0.035	0.06	7.8	9.4	0.15	399	4.77	0.04
DD023239		1.11	32.2	2.74	2.44	<0.05	0.03	0.11	0.032	0.05	6.9	5.3	0.08	242	4.89	0.06
DD023240		1.92	61.1	3.15	3.90	0.06	<0.02	0.15	0.035	0.08	10.4	7.1	0.15	184	34.1	0.03
DD023241		1.95	43.6	2.83	2.63	0.05	0.08	0.36	0.034	0.09	13.8	10.3	0.34	417	2.32	0.04
DD023242		0.83	26.4	3.52	3.08	0.06	0.06	0.33	0.041	0.08	19.2	10.9	0.28	508	6.34	<0.01
DD023243		0.88	24.8	3.52	3.80	0.06	0.05	0.36	0.042	0.09	15.4	12.6	0.25	633	5.54	<0.01
DD023244		0.56	22.2	3.82	2.95	0.05	0.06	0.76	0.041	0.08	11.8	9.2	0.18	346	2.87	<0.01
DD023245		0.86	23.0	3.58	4.11	0.05	0.06	0.07	0.051	0.08	23.0	14.8	0.21	580	2.52	<0.01
DD023246		0.46	23.3	4.72	3.65	0.07	0.07	0.07	0.064	0.13	23.0	10.9	0.26	690	1.72	<0.01
DD023247		0.25	33.1	2.64	1.76	0.07	0.09	0.12	0.035	0.10	27.2	4.3	0.19	237	3.56	<0.01
DD023248		0.22	32.7	2.59	1.48	0.06	0.09	0.10	0.033	0.15	25.8	3.7	0.58	190	3.01	<0.01
DD023249		0.31	22.5	1.98	1.04	0.07	0.03	0.07	0.030	0.14	19.2	2.8	0.84	190	3.30	<0.01
DD023250		1.93	32.8	3.73	5.99	<0.05	0.12	0.11	0.047	0.13	11.1	37.4	0.50	477	0.49	<0.01
DD023251		1.97	30.2	3.66	6.28	<0.05	0.03	0.04	0.038	0.11	8.1	37.3	0.36	593	0.61	<0.01
DD023252		1.74	54.6	4.04	3.08	0.05	0.05	0.20	0.041	0.11	10.6	12.8	0.89	961	1.28	<0.01
DD023253		0.70	15.9	2.52	1.65	<0.05	0.08	0.29	0.018	0.07	7.6	5.8	5.42	1300	0.50	0.01
DD023254		0.92	24.3	3.03	4.15	<0.05	0.05	0.10	0.030	0.05	11.0	12.2	0.39	411	1.02	0.01
DD023255		1.56	48.9	3.60	4.34	0.05	0.02	0.21	0.035	0.09	13.4	14.3	0.41	476	1.30	<0.01
DD023256		1.20	19.2	2.95	2.52	0.05	0.04	0.21	0.026	0.06	10.5	8.4	3.61	1380	0.72	0.01
DD023257		1.20	23.7	3.76	3.10	<0.05	0.06	0.09	0.038	0.11	8.9	10.2	0.23	576	0.44	<0.01
DD023258		2.28	29.8	6.05	2.56	0.05	0.02	0.08	0.044	0.09	6.2	11.1	0.13	959	0.47	<0.01
DD023259		1.71	24.7	3.61	4.18	0.07	0.08	0.09	0.043	0.07	17.8	12.3	0.18	396	0.84	<0.01
DD023260		1.21	45.7	4.18	2.82	0.06	0.09	0.07	0.057	0.08	12.5	13.3	0.25	522	0.67	<0.01
DD023261		1.31	39.5	3.90	2.28	0.07	0.05	0.08	0.039	0.08	13.9	12.3	0.20	613	0.56	0.02
DD023262		2.06	38.7	4.09	2.16	0.06	0.07	0.06	0.047	0.07	10.1	12.7	0.19	448	0.57	0.03
DD023263		1.47	28.2	5.64	3.71	0.10	0.09	0.06	0.052	0.08	18.1	30.8	0.23	971	0.82	0.03
DD023264		1.35	38.1	3.82	2.42	0.07	0.08	0.07	0.046	0.08	11.2	14.6	0.25	565	0.72	0.03
DD023265		2.13	27.5	3.30	3.59	0.05	0.04	0.03	0.044	0.08	8.0	19.0	0.23	480	0.50	0.02
DD023266		0.95	47.8	3.85	2.58	0.08	0.04	0.07	0.046	0.08	12.9	12.7	0.22	636	0.84	0.02
DD023267		1.57	44.3	4.37	2.96	0.08	0.05	0.07	0.044	0.07	16.7	16.7	0.27	460	0.80	0.02
DD023268		1.69	25.1	3.86	2.53	0.06	0.04	0.08	0.038	0.11	9.2	10.7	0.81	950	0.62	0.03
DD023269		0.95	25.5	2.54	2.35	0.05	0.06	0.29	0.026	0.11	8.4	10.6	3.36	637	0.84	0.04
DD023270		1.46	31.6	3.18	4.23	0.06	0.04	0.05	0.035	0.06	14.0	16.5	0.38	514	1.27	0.03

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023231		0.39	44.4	1530	12.3	6.7	0.001	0.14	1.44	2.0	4.8	0.4	48.2	<0.01	0.17	0.5
DD023232		0.18	55.3	800	13.3	10.3	0.001	0.09	1.44	5.4	3.7	0.3	45.6	<0.01	0.12	1.5
DD023233		0.10	66.2	1450	14.2	13.4	0.004	0.38	1.66	5.7	6.8	0.4	117.5	<0.01	0.15	2.9
DD023234		0.15	84.8	2420	11.8	12.3	0.002	0.33	1.74	7.9	6.7	0.4	137.0	<0.01	0.12	2.8
DD023235		0.23	47.0	1750	13.0	8.9	0.002	0.18	1.16	3.1	3.5	0.4	67.6	<0.01	0.09	0.9
DD023236		0.55	46.3	1560	14.3	8.2	0.001	0.06	1.06	3.2	2.3	0.4	43.8	<0.01	0.07	1.6
DD023237		0.24	41.9	1490	16.3	9.1	0.001	0.08	0.99	1.1	2.8	0.4	52.9	<0.01	0.08	0.2
DD023238		0.32	48.0	1370	19.6	10.4	<0.001	0.08	1.32	1.4	3.1	0.5	69.5	<0.01	0.09	0.4
DD023239		0.30	52.1	1320	17.2	7.9	0.002	0.08	1.36	2.0	3.6	0.4	102.0	<0.01	0.06	0.5
DD023240		0.16	112.5	2650	20.0	12.5	0.002	0.10	7.31	0.5	11.4	0.6	72.6	<0.01	0.14	<0.2
DD023241		0.31	37.2	1830	38.5	12.5	0.001	0.20	1.43	3.4	2.8	0.3	52.1	<0.01	0.05	1.2
DD023242		0.39	59.9	1360	33.5	9.8	0.002	0.09	1.86	4.1	2.4	0.4	43.3	<0.01	0.04	1.4
DD023243		0.41	56.8	1220	29.4	10.5	0.001	0.07	1.80	4.1	2.0	0.5	32.5	<0.01	0.07	1.6
DD023244		0.26	34.7	770	20.7	8.7	0.001	0.06	1.26	4.5	0.9	0.4	33.1	<0.01	0.03	1.9
DD023245		0.53	37.8	1310	17.9	10.4	0.001	0.09	1.02	3.8	1.3	0.5	33.4	<0.01	0.04	1.6
DD023246		0.32	36.3	1790	10.3	6.3	<0.001	0.10	0.49	6.2	1.3	0.6	35.0	<0.01	0.03	2.0
DD023247		0.18	48.7	1300	13.4	7.3	<0.001	0.11	1.92	2.8	2.6	0.3	48.0	<0.01	0.05	1.4
DD023248		0.12	49.5	1040	13.1	7.0	0.001	0.07	1.39	4.4	2.7	0.2	54.4	<0.01	0.06	2.9
DD023249		0.11	38.1	640	12.9	6.9	0.001	0.05	1.00	4.1	1.7	0.2	133.5	<0.01	0.03	3.2
DD023250		0.44	29.2	480	45.5	15.2	<0.001	0.04	0.33	6.0	0.9	0.9	20.0	<0.01	0.02	4.5
DD023251		0.50	25.8	330	23.9	17.3	<0.001	0.03	0.31	4.2	0.6	0.8	15.1	<0.01	0.03	4.2
DD023252		0.39	40.0	710	56.7	11.4	0.001	0.04	0.87	7.2	1.2	0.5	35.3	<0.01	0.06	5.5
DD023253		0.18	14.6	700	70.7	6.6	<0.001	0.05	0.61	3.7	1.3	0.3	47.7	<0.01	0.02	1.6
DD023254		0.59	24.3	590	32.8	9.6	0.001	0.03	0.60	3.8	1.0	0.5	18.6	<0.01	0.05	2.1
DD023255		0.54	36.2	800	34.5	10.3	0.001	0.02	0.90	6.9	1.4	0.5	37.1	<0.01	0.07	4.7
DD023256		0.34	20.0	950	68.0	9.8	<0.001	0.05	0.81	3.5	1.1	0.4	37.9	<0.01	0.05	1.7
DD023257		0.30	25.4	400	53.5	10.6	<0.001	0.03	0.43	5.2	0.9	0.5	22.9	<0.01	0.05	3.5
DD023258		0.21	26.9	380	71.3	13.2	<0.001	0.03	0.52	4.3	1.0	0.5	17.6	<0.01	0.04	3.2
DD023259		0.69	30.0	640	25.2	9.2	<0.001	0.04	0.42	5.8	1.1	0.5	32.7	<0.01	0.05	4.6
DD023260		0.27	38.4	540	31.9	10.4	<0.001	0.03	0.44	7.0	1.5	0.5	16.5	<0.01	0.04	7.3
DD023261		0.22	35.5	380	47.4	9.1	<0.001	0.01	0.41	5.8	0.6	0.4	24.5	<0.01	0.05	7.7
DD023262		0.19	33.1	360	30.0	12.8	<0.001	0.03	0.33	6.3	0.7	0.5	28.5	<0.01	0.06	4.1
DD023263		0.49	38.7	900	27.8	13.5	<0.001	0.04	0.34	6.6	0.7	0.5	29.8	0.01	0.06	4.7
DD023264		0.32	35.0	410	28.5	12.2	0.001	0.04	0.42	5.8	0.8	0.5	40.5	<0.01	0.06	3.5
DD023265		0.32	25.5	350	27.8	15.5	<0.001	0.02	0.26	4.0	0.4	0.6	11.4	<0.01	0.04	3.1
DD023266		0.26	36.7	590	27.1	7.1	0.001	0.01	0.39	8.0	0.7	0.5	32.1	0.01	0.05	5.8
DD023267		0.30	39.4	380	42.8	10.2	<0.001	0.02	0.46	6.6	0.7	0.4	19.0	0.01	0.05	6.2
DD023268		0.29	25.4	410	51.0	12.0	<0.001	0.03	0.58	4.3	0.5	0.5	19.5	<0.01	0.04	3.5
DD023269		0.53	25.8	730	65.3	6.6	<0.001	0.03	0.92	4.1	0.5	0.4	49.2	<0.01	0.03	3.4
DD023270		0.81	36.6	720	33.8	11.0	0.001	0.01	0.77	4.4	0.6	0.5	24.4	<0.01	0.04	4.2



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023231		0.011	0.62	3.41	46	0.10	32.9	228	1.2
DD023232		<0.005	0.33	2.08	27	0.07	25.3	192	1.4
DD023233		<0.005	0.29	2.42	32	0.05	18.70	248	2.2
DD023234		<0.005	0.25	4.34	47	0.06	34.7	292	1.5
DD023235		0.005	0.17	3.26	46	0.11	15.45	174	1.7
DD023236		0.018	0.22	2.40	58	0.33	16.25	203	1.0
DD023237		0.006	0.19	2.22	52	0.09	11.45	192	<0.5
DD023238		0.009	0.40	2.08	67	0.27	13.15	219	<0.5
DD023239		0.006	0.24	3.14	70	0.09	19.80	239	1.0
DD023240		<0.005	1.23	9.16	202	0.27	21.9	504	<0.5
DD023241		0.006	0.47	2.39	49	0.10	21.1	296	2.2
DD023242		0.008	0.81	2.02	141	0.16	24.2	701	1.5
DD023243		0.008	1.15	1.83	103	0.34	16.25	625	1.4
DD023244		<0.005	1.84	1.27	85	0.36	10.70	253	1.5
DD023245		0.008	0.23	1.36	55	0.11	17.50	163	1.6
DD023246		<0.005	0.15	0.98	42	<0.05	15.55	141	2.0
DD023247		<0.005	0.25	2.13	41	<0.05	27.4	193	2.6
DD023248		<0.005	0.22	1.40	32	<0.05	25.6	189	2.4
DD023249		<0.005	0.21	1.11	27	<0.05	19.75	119	1.0
DD023250		0.007	0.23	0.89	28	0.07	13.20	194	2.9
DD023251		0.007	0.15	0.69	26	<0.05	5.84	96	1.0
DD023252		0.011	0.42	1.12	34	0.08	12.95	212	2.1
DD023253		<0.005	0.34	1.54	15	0.05	11.65	377	1.9
DD023254		0.013	0.18	1.50	38	0.13	8.17	157	1.6
DD023255		0.023	0.29	1.06	47	0.24	11.25	160	1.1
DD023256		0.009	0.49	1.48	23	0.09	11.15	247	1.0
DD023257		<0.005	0.27	1.13	18	<0.05	11.85	141	2.0
DD023258		<0.005	0.43	0.94	17	0.05	7.77	301	0.8
DD023259		0.008	0.20	3.37	38	0.13	15.15	55	2.5
DD023260		<0.005	0.16	1.70	22	0.05	13.60	106	3.4
DD023261		<0.005	0.27	1.31	19	0.06	11.75	130	2.5
DD023262		<0.005	0.26	1.25	19	0.05	12.50	155	1.9
DD023263		<0.005	0.18	1.89	33	0.09	18.65	100	2.5
DD023264		<0.005	0.17	1.03	21	0.06	14.55	98	2.1
DD023265		<0.005	0.24	0.93	22	0.06	6.48	85	1.2
DD023266		0.005	0.16	1.66	24	0.07	17.35	106	1.2
DD023267		<0.005	0.20	1.58	24	0.05	15.35	100	1.7
DD023268		<0.005	0.34	1.14	20	0.05	9.60	161	1.2
DD023269		0.013	0.57	1.10	23	0.10	8.70	208	2.4
DD023270		0.020	0.23	1.42	39	0.18	8.56	128	1.3



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD023271		0.37	0.004	0.41	1.07	24.0	<0.2	<10	270	0.67	0.19	3.88	0.85	26.4	10.1	19
DD023272		0.23	0.002	0.24	1.10	26.7	<0.2	<10	350	0.76	0.28	0.39	0.33	22.5	10.5	20
DD023273		0.24	0.002	0.50	1.18	32.9	<0.2	<10	430	1.01	0.28	1.49	1.12	27.1	10.9	20
DD023274		0.37	0.004	0.59	1.20	35.5	<0.2	<10	390	0.95	0.29	0.46	1.13	26.4	13.4	22
DD023275		0.28	0.003	0.39	0.85	23.9	<0.2	<10	280	0.66	0.20	5.66	0.82	20.7	9.9	15
DD023276		0.32	0.003	0.73	0.77	33.2	<0.2	<10	210	0.69	0.19	5.23	1.91	17.95	9.4	14
DD023277		0.30	0.002	0.08	1.34	21.1	<0.2	<10	180	0.65	0.26	0.20	0.19	23.2	8.9	23
DD023278		0.23	0.003	0.65	0.82	67.9	<0.2	<10	260	1.07	0.26	4.31	1.48	25.8	14.8	15
DD023279		0.33	0.004	0.27	1.39	31.6	<0.2	<10	260	1.32	0.32	0.21	0.81	31.7	16.2	24
DD023280		0.31	0.003	0.12	1.39	25.4	<0.2	<10	290	0.46	0.32	0.14	0.31	20.9	9.9	24
DD023281		0.26	0.003	0.59	1.00	22.7	<0.2	<10	360	0.95	0.29	0.43	0.65	34.0	12.3	19
DD023282		0.32	0.001	0.37	0.61	38.9	<0.2	10	240	0.78	0.36	0.99	0.49	18.05	9.4	12
DD023283		0.28	0.001	0.09	0.79	16.6	<0.2	<10	60	0.43	0.40	0.05	0.18	20.5	11.4	16
DD023284		0.29	0.003	0.08	1.83	11.7	<0.2	<10	140	0.75	0.28	0.12	0.11	32.0	11.1	25
DD023285		0.38	0.007	0.05	1.43	18.2	<0.2	<10	110	0.97	0.37	0.06	0.14	27.4	18.4	22
DD023286		0.21	0.001	0.06	1.22	14.1	<0.2	<10	100	0.66	0.32	0.13	0.25	30.2	10.4	17
DD023287		0.26	0.004	0.23	1.36	14.3	<0.2	<10	220	1.09	0.29	0.35	0.24	41.8	13.0	23
DD023288		0.23	0.001	0.08	1.23	12.3	<0.2	<10	180	0.93	0.36	0.19	0.09	27.9	11.3	18
DD023289		0.28	<0.001	0.11	1.06	4.7	<0.2	10	650	1.41	0.21	0.81	0.13	30.7	15.8	17
DD023290		0.29	0.002	0.09	1.90	6.8	<0.2	10	660	1.76	0.21	0.52	0.10	52.4	13.8	27
DD023291		0.24	0.002	0.33	0.72	18.8	<0.2	<10	140	0.61	0.20	0.18	2.61	11.10	8.8	11
DD023292		0.22	0.002	0.42	0.70	22.3	<0.2	<10	260	0.54	0.16	0.13	1.14	27.8	18.5	9
DD023293		0.26	0.007	2.37	0.62	29.0	<0.2	10	200	0.56	0.12	1.34	5.07	43.3	18.0	11
DD023294		0.31	<0.001	0.09	0.91	64.2	<0.2	10	250	0.96	0.06	0.40	0.54	37.8	25.4	28
DD023295		0.21	0.012	3.60	0.78	49.9	<0.2	10	380	0.60	0.21	0.31	1.52	41.6	10.4	18
DD023296		0.24	0.001	0.11	1.39	29.9	<0.2	<10	80	0.39	0.29	0.02	0.91	13.70	10.4	22
DD023297		0.24	<0.001	0.18	1.74	6.1	<0.2	<10	530	1.74	0.29	0.42	0.53	47.7	19.7	24
DD023298		0.22	<0.001	0.06	1.69	13.2	<0.2	<10	220	1.04	0.25	0.23	0.45	39.7	12.0	26
DD023299		0.19	0.001	0.08	0.99	14.7	<0.2	<10	140	0.46	0.34	0.05	0.12	14.45	5.1	15
DD023300		0.32	0.002	0.14	1.49	14.2	<0.2	<10	280	1.17	0.28	0.26	0.23	31.6	13.8	27
DD023301		0.19	0.001	0.10	1.42	20.2	<0.2	<10	180	1.01	0.33	0.36	0.31	22.4	15.4	25
DD023302		0.22	<0.001	0.05	1.12	11.9	<0.2	<10	340	1.03	0.39	0.31	0.10	9.75	11.2	18
DD023303		0.23	0.002	0.09	1.68	57.8	<0.2	<10	680	1.09	0.29	0.46	0.12	16.50	11.7	23
DD023304		0.24	0.003	0.12	1.45	65.2	<0.2	<10	270	1.23	0.36	0.37	0.27	22.9	14.6	25
DD023305		0.32	0.004	0.13	1.53	22.1	<0.2	<10	250	1.06	0.29	0.27	0.24	38.3	14.4	28
DD023306		0.30	0.001	0.04	1.28	41.0	<0.2	<10	110	1.18	0.44	0.18	0.17	18.90	14.7	28
DD023307		0.21	0.002	0.19	1.69	28.3	<0.2	<10	220	1.23	0.32	0.50	0.36	21.4	14.6	26
DD023308		0.32	0.004	0.14	1.75	20.9	<0.2	<10	310	1.18	0.30	0.58	0.41	25.0	16.2	27
DD023309		0.31	0.004	0.16	1.56	30.4	<0.2	<10	250	1.01	0.30	0.57	0.30	21.6	12.3	24
DD023310		0.35	0.004	0.41	1.38	738	<0.2	<10	210	1.26	0.27	1.96	0.86	36.5	12.3	22



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023271		1.03	24.6	3.04	3.13	0.05	0.04	0.23	0.030	0.06	13.6	11.1	2.43	1120	1.07	0.03
DD023272		1.01	28.4	3.02	3.86	0.05	0.04	0.16	0.032	0.06	10.7	15.5	0.32	319	1.26	0.03
DD023273		1.50	33.4	3.84	3.41	0.06	0.09	0.23	0.041	0.09	13.3	13.1	0.88	928	1.70	0.03
DD023274		1.33	40.8	4.01	3.58	0.07	0.07	0.27	0.036	0.09	13.8	11.7	0.36	1140	1.64	0.03
DD023275		1.31	25.3	2.71	2.84	0.05	0.07	0.30	0.026	0.09	10.0	14.1	3.68	1140	0.79	0.04
DD023276		0.97	25.5	2.99	2.43	0.05	0.07	0.40	0.026	0.07	9.4	10.5	3.29	1200	1.30	0.04
DD023277		1.20	20.3	2.92	4.76	0.05	0.04	0.10	0.032	0.06	11.0	19.7	0.37	347	1.34	0.03
DD023278		1.27	33.7	4.13	2.12	0.08	0.06	0.54	0.041	0.09	14.6	5.7	2.54	1570	0.98	0.03
DD023279		1.45	49.4	3.86	3.57	0.08	0.05	0.23	0.040	0.08	16.1	14.1	0.31	895	1.79	0.03
DD023280		1.43	19.4	3.36	4.94	0.05	0.03	0.09	0.033	0.07	8.5	13.9	0.30	618	1.15	0.03
DD023281		1.00	33.9	3.63	2.63	0.08	0.05	0.22	0.037	0.07	17.6	10.2	0.28	795	0.97	0.03
DD023282		1.31	30.0	3.43	1.97	0.06	0.06	0.26	0.035	0.12	8.4	6.1	0.35	318	0.53	0.03
DD023283		1.03	28.1	4.22	2.92	0.05	0.02	0.02	0.038	0.08	5.8	8.2	0.12	542	0.77	0.03
DD023284		1.36	20.1	3.61	4.17	0.06	0.05	0.04	0.038	0.05	11.2	16.8	0.30	360	1.26	0.03
DD023285		1.80	40.5	4.03	3.44	0.06	0.05	0.03	0.043	0.08	9.7	20.2	0.32	574	0.81	0.02
DD023286		0.96	30.0	4.73	2.51	0.05	0.05	0.03	0.046	0.06	5.3	16.0	0.21	274	0.65	0.03
DD023287		1.34	34.9	5.58	3.38	0.10	0.06	0.06	0.039	0.07	20.1	15.2	0.36	807	0.87	0.03
DD023288		1.76	29.5	3.72	3.35	0.07	0.04	0.03	0.043	0.07	10.0	15.3	0.22	450	0.67	0.03
DD023289		1.38	24.2	2.89	2.69	0.08	0.05	0.04	0.049	0.19	14.3	11.4	0.23	356	0.71	0.03
DD023290		1.62	19.0	4.12	4.44	0.10	0.07	0.03	0.051	0.15	19.6	20.5	0.33	491	1.62	0.03
DD023291		1.19	40.7	2.31	3.08	0.05	0.02	0.02	0.035	0.15	4.7	4.6	0.10	130	13.00	0.02
DD023292		1.15	78.3	5.72	2.21	0.07	0.02	0.04	0.057	0.20	14.6	4.7	0.09	227	5.57	0.03
DD023293		1.06	141.0	4.41	2.39	0.10	0.06	0.26	0.051	0.21	22.1	10.1	0.20	245	9.01	0.03
DD023294		1.53	26.4	6.32	1.47	0.11	0.03	0.03	0.062	0.14	13.5	2.2	0.08	821	2.21	0.02
DD023295		1.96	123.5	6.64	2.87	0.15	0.03	0.39	0.042	0.40	25.1	6.4	0.10	170	32.6	0.04
DD023296		1.60	32.2	3.55	4.97	0.05	0.02	0.04	0.034	0.10	6.4	12.6	0.29	319	5.86	0.02
DD023297		2.05	25.6	4.63	4.77	0.12	0.08	0.03	0.057	0.19	22.2	20.8	0.41	788	1.75	0.01
DD023298		1.79	21.0	3.78	5.01	0.07	0.05	0.02	0.047	0.11	9.9	26.4	0.42	399	2.93	0.01
DD023299		2.22	15.4	2.44	5.66	<0.05	<0.02	0.03	0.026	0.08	6.6	4.4	0.09	89	1.75	<0.01
DD023300		2.10	29.5	3.56	5.04	0.08	0.05	0.05	0.035	0.10	13.2	20.8	0.48	806	2.13	0.01
DD023301		2.42	33.4	4.12	5.23	0.07	0.05	0.06	0.041	0.11	10.1	21.9	0.41	963	1.26	<0.01
DD023302		2.37	26.2	2.64	5.82	0.05	0.03	0.03	0.028	0.11	5.0	14.1	0.28	543	1.69	0.01
DD023303		2.53	32.0	3.73	6.14	0.06	0.08	0.19	0.040	0.07	6.4	17.3	0.33	1080	1.19	0.01
DD023304		1.51	37.7	4.15	5.59	0.06	0.08	0.39	0.042	0.07	9.4	21.1	0.43	884	0.89	0.01
DD023305		1.68	30.0	3.30	5.43	0.08	0.08	0.09	0.034	0.07	18.7	21.4	0.55	582	1.38	0.01
DD023306		2.20	37.6	4.29	6.34	0.07	0.04	0.14	0.044	0.09	7.7	24.0	0.39	634	0.81	0.01
DD023307		2.60	39.9	4.55	5.92	0.07	0.10	0.30	0.042	0.11	9.5	29.1	0.49	911	0.89	0.01
DD023308		2.56	45.4	3.90	5.79	0.07	0.09	0.14	0.044	0.11	10.9	28.2	0.53	859	0.91	0.01
DD023309		2.76	41.3	4.00	5.28	0.07	0.09	0.20	0.041	0.10	10.0	22.9	0.46	672	0.93	0.01
DD023310		3.82	32.3	6.22	3.96	0.12	0.09	5.85	0.039	0.07	23.3	17.2	1.00	2780	1.17	0.01

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**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023271		0.59	26.3	920	56.8	8.4	<0.001	0.02	0.68	4.8	0.6	0.4	34.7	<0.01	0.03	2.6
DD023272		0.63	26.9	580	47.4	9.2	0.001	0.02	0.67	4.2	0.6	0.5	23.0	<0.01	0.04	3.4
DD023273		0.46	33.1	1040	53.9	13.8	0.001	0.04	0.80	5.6	1.0	0.5	24.4	<0.01	0.04	3.5
DD023274		0.52	36.2	950	67.1	10.6	<0.001	0.03	1.10	6.0	1.0	0.5	23.5	<0.01	0.06	3.5
DD023275		0.38	21.2	750	46.5	13.9	<0.001	0.04	0.53	4.5	0.6	0.4	35.2	<0.01	0.03	2.7
DD023276		0.38	23.4	800	92.4	10.0	0.001	0.05	0.89	4.2	0.8	0.4	41.3	<0.01	0.03	2.1
DD023277		0.79	23.5	570	28.7	13.5	<0.001	0.02	0.61	3.3	0.5	0.5	18.5	<0.01	0.04	2.6
DD023278		0.26	32.6	670	87.1	7.9	0.001	0.04	1.09	8.0	0.7	0.4	28.6	0.01	0.03	4.9
DD023279		0.46	41.2	680	49.0	11.4	0.001	0.02	0.78	8.3	0.9	0.5	20.3	<0.01	0.06	5.5
DD023280		0.66	22.1	650	55.7	12.8	<0.001	0.03	0.52	2.7	0.5	0.6	13.6	<0.01	0.04	1.3
DD023281		0.37	32.8	600	49.4	8.9	<0.001	0.03	0.57	7.5	0.8	0.4	28.2	0.01	0.04	6.5
DD023282		0.29	27.9	440	64.1	8.8	<0.001	0.04	0.54	4.9	0.6	0.4	38.5	<0.01	0.04	3.8
DD023283		0.48	24.3	420	36.6	13.5	<0.001	0.02	0.36	3.1	0.4	0.5	14.3	<0.01	0.05	2.9
DD023284		1.14	31.5	560	22.1	9.7	0.001	0.03	0.67	3.5	0.7	0.5	16.5	0.01	0.04	3.4
DD023285		0.40	37.5	380	27.5	12.5	<0.001	0.02	0.43	4.7	0.5	0.5	15.4	<0.01	0.05	4.3
DD023286		0.23	29.0	590	30.6	10.6	<0.001	0.04	0.28	2.8	0.5	0.5	14.9	<0.01	0.05	2.4
DD023287		0.57	33.9	650	22.2	10.0	<0.001	0.02	0.48	7.5	0.8	0.5	28.2	0.01	0.05	5.4
DD023288		0.38	28.5	480	23.1	14.4	<0.001	0.02	0.31	4.0	0.5	0.5	15.9	<0.01	0.05	2.7
DD023289		0.38	34.5	850	16.4	14.2	0.001	0.03	0.19	7.0	0.5	0.7	29.6	<0.01	0.01	5.2
DD023290		0.43	36.7	630	18.3	17.8	<0.001	0.04	0.22	4.6	0.6	0.7	21.8	<0.01	0.02	2.4
DD023291		0.30	33.4	600	12.4	12.9	0.001	0.04	5.47	1.8	2.6	0.5	9.1	<0.01	0.04	0.6
DD023292		0.25	34.9	1880	26.8	10.1	0.002	0.24	1.82	4.2	2.1	0.5	35.0	<0.01	0.05	1.3
DD023293		0.38	45.9	2830	21.0	8.6	0.010	0.22	6.00	7.9	4.1	0.4	63.1	<0.01	0.05	2.8
DD023294		0.21	65.0	1040	8.7	8.1	0.002	0.02	0.49	9.1	4.1	0.3	15.7	<0.01	0.02	4.5
DD023295		0.25	42.6	6520	38.8	14.2	0.017	0.89	18.80	3.7	11.4	0.5	114.0	<0.01	0.13	0.8
DD023296		0.64	27.5	570	19.7	13.5	0.001	0.04	3.11	1.6	2.3	0.6	6.1	<0.01	0.06	0.6
DD023297		0.37	44.3	540	25.3	17.4	<0.001	0.03	0.47	9.9	1.0	0.7	19.3	0.01	0.02	5.4
DD023298		0.62	31.9	800	15.1	15.7	<0.001	0.04	1.54	3.5	1.0	0.6	15.3	<0.01	0.04	1.7
DD023299		0.46	12.3	580	17.6	13.8	<0.001	0.05	0.71	1.2	0.7	0.8	16.1	<0.01	0.05	0.3
DD023300		0.70	31.8	580	19.5	14.0	<0.001	0.02	1.00	5.7	0.8	0.6	17.8	<0.01	0.04	4.6
DD023301		0.54	27.5	480	22.6	14.6	<0.001	0.02	0.63	6.0	0.7	0.7	15.5	<0.01	0.05	3.7
DD023302		0.51	18.0	600	15.1	16.1	<0.001	0.04	0.49	2.7	0.6	0.8	11.4	<0.01	0.04	1.1
DD023303		0.50	17.5	1430	18.5	15.4	<0.001	0.07	0.45	4.7	0.7	0.7	17.4	<0.01	0.07	1.5
DD023304		0.44	28.7	570	26.9	11.6	<0.001	0.04	0.45	6.0	0.8	0.6	18.7	<0.01	0.05	2.6
DD023305		0.91	35.3	650	17.3	11.6	<0.001	0.02	0.90	6.0	0.9	0.6	20.7	<0.01	0.04	4.9
DD023306		0.45	28.4	500	26.7	12.9	<0.001	0.02	0.34	5.9	0.6	0.8	14.4	<0.01	0.03	4.7
DD023307		0.43	27.2	750	21.4	16.5	<0.001	0.05	0.51	7.0	0.9	0.6	27.1	<0.01	0.05	2.9
DD023308		0.51	27.6	940	19.2	15.3	<0.001	0.07	0.54	6.4	1.0	0.6	30.2	<0.01	0.06	2.0
DD023309		0.48	24.7	960	19.6	15.2	<0.001	0.07	0.46	6.5	0.9	0.5	31.5	<0.01	0.06	2.1
DD023310		0.38	26.1	940	77.9	11.6	<0.001	0.06	0.68	9.2	1.3	0.4	37.5	0.01	0.07	2.7

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
DD023271		0.019	0.27	1.55	34	0.16	12.85	249	1.0
DD023272		0.013	0.20	1.54	35	0.12	7.34	164	1.2
DD023273		0.006	0.46	2.41	35	0.10	15.65	300	2.4
DD023274		0.011	0.40	1.49	41	0.13	14.50	268	1.8
DD023275		0.008	0.30	1.40	25	0.08	10.80	241	2.0
DD023276		0.008	0.43	1.43	28	0.10	10.70	492	2.0
DD023277		0.015	0.19	0.89	41	0.20	4.73	123	1.1
DD023278		<0.005	0.74	1.93	21	0.08	19.50	293	1.7
DD023279		0.008	0.35	1.60	42	0.10	18.00	209	1.5
DD023280		0.013	0.28	0.90	44	0.16	3.82	195	0.7
DD023281		0.008	0.26	1.57	28	0.08	21.2	179	2.0
DD023282		<0.005	0.39	0.91	15	0.06	11.90	203	2.3
DD023283		0.007	0.16	0.77	26	0.06	3.99	125	0.6
DD023284		0.020	0.17	1.10	39	0.21	4.99	68	1.7
DD023285		0.005	0.17	1.15	29	0.06	5.79	92	1.5
DD023286		<0.005	0.16	0.88	20	<0.05	4.95	82	1.3
DD023287		0.009	0.16	1.98	32	0.11	20.4	89	1.5
DD023288		<0.005	0.16	1.15	27	0.10	8.87	72	1.1
DD023289		<0.005	0.13	0.60	20	<0.05	11.90	93	3.0
DD023290		<0.005	0.15	0.77	33	<0.05	13.75	85	2.5
DD023291		0.005	0.25	1.83	84	0.06	5.39	393	0.6
DD023292		<0.005	0.25	1.57	45	<0.05	6.33	204	0.5
DD023293		<0.005	0.25	3.77	90	<0.05	15.50	352	2.2
DD023294		<0.005	0.17	0.93	22	<0.05	8.89	445	0.7
DD023295		0.006	0.71	11.30	168	0.08	16.20	245	0.5
DD023296		0.011	0.30	1.08	64	0.11	3.31	200	0.5
DD023297		0.006	0.21	0.73	25	0.06	26.7	117	2.5
DD023298		0.012	0.21	1.13	46	0.14	6.39	169	1.4
DD023299		0.011	0.20	0.68	43	0.17	2.61	47	<0.5
DD023300		0.019	0.19	1.41	44	0.22	11.25	97	1.4
DD023301		0.011	0.19	0.96	39	0.20	11.65	90	1.2
DD023302		0.012	0.13	0.63	31	0.19	5.78	59	0.7
DD023303		0.008	0.48	1.00	46	0.19	6.60	68	1.7
DD023304		0.009	0.42	1.31	36	0.19	10.70	95	1.7
DD023305		0.029	0.21	1.59	42	0.26	13.90	95	1.8
DD023306		0.011	0.25	0.87	30	0.09	7.71	111	1.2
DD023307		0.005	0.31	1.29	37	0.15	13.50	111	2.2
DD023308		0.009	0.21	1.49	41	0.12	13.90	99	2.0
DD023309		0.008	0.28	1.42	40	0.20	12.20	96	2.0
DD023310		0.009	2.70	3.03	34	0.25	29.5	279	1.7



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
DD023311		0.24	0.001	0.04	1.62	47.3	<0.2	<10	210	0.71	0.30	0.61	0.26	27.1	10.8	28
DD023312		0.31	0.003	0.05	1.44	34.3	<0.2	<10	160	1.09	0.37	0.09	0.29	26.2	23.7	23
DD023313		0.25	0.002	0.13	0.76	169	<0.2	<10	90	0.56	0.15	10.20	0.20	21.2	7.3	13
DD023314		0.25	0.003	0.08	1.40	25.0	<0.2	<10	130	0.89	0.28	0.50	0.17	23.1	15.4	21
DD023315		0.34	0.002	0.09	1.97	25.4	<0.2	<10	150	0.94	0.32	0.33	0.13	22.0	19.4	28
DD023316		0.32	0.005	0.12	2.00	23.5	<0.2	<10	180	1.13	0.29	0.25	0.15	40.0	18.4	30
DD023317		0.18	0.006	0.14	0.81	40.5	<0.2	<10	160	1.17	0.23	0.69	0.17	47.5	13.9	26
DD023318		0.25	0.004	0.13	0.93	30.4	<0.2	<10	120	1.15	0.28	1.62	0.26	40.3	15.3	29
DD023319		0.13	0.003	0.10	1.18	19.6	<0.2	<10	220	1.19	0.25	1.58	0.21	35.9	12.6	29
DD023320		0.27	0.004	0.12	1.55	20.8	<0.2	<10	180	1.18	0.32	0.90	0.32	30.2	17.5	27
DD023321		0.22	0.003	0.21	1.53	21.3	<0.2	<10	180	0.88	0.26	0.84	0.26	31.3	12.4	27
DD023322		0.24	0.005	0.13	1.98	23.6	<0.2	<10	270	1.09	0.29	0.64	0.48	28.4	21.6	30
DD023323		0.19	0.002	0.08	1.44	12.9	<0.2	<10	260	1.13	0.26	1.28	0.16	33.4	12.6	33
DD023324		0.22	0.004	0.09	0.79	25.0	<0.2	<10	230	1.22	0.25	1.50	0.14	40.3	12.4	27
DD023325		0.23	0.009	0.12	1.22	24.3	<0.2	<10	180	1.18	0.19	1.88	0.30	45.1	11.9	34
DD023326		0.18	0.004	0.07	1.28	24.8	<0.2	<10	190	0.97	0.27	0.78	0.27	35.2	15.6	23
DD023327		0.32	0.003	0.04	1.86	30.8	<0.2	<10	220	1.04	0.30	0.26	0.08	26.1	17.2	28
DD023328		0.23	0.005	0.17	1.47	31.6	<0.2	<10	150	0.94	0.30	1.10	0.16	24.5	16.0	22
DD023329		0.20	0.002	0.18	0.48	97	<0.2	<10	60	0.41	0.07	13.95	1.25	9.99	4.0	8
DD023330		0.22	0.003	0.09	1.45	35.2	<0.2	<10	110	0.73	0.25	2.63	0.36	20.9	12.6	21
DD023331		0.24	0.002	0.06	1.98	30.5	<0.2	<10	150	0.92	0.32	0.04	0.15	21.6	17.8	28
DD023332		0.29	0.003	0.20	1.44	80.1	<0.2	<10	220	1.21	0.31	0.65	0.33	24.2	10.4	22
DD023333		0.16	0.006	0.22	1.54	31.9	<0.2	<10	230	1.03	0.29	0.67	0.44	21.3	14.3	26
DD023334		0.26	0.005	0.21	1.84	23.0	<0.2	<10	290	1.22	0.33	0.64	0.14	21.4	11.8	27
DD023335		0.19	0.003	0.12	1.70	22.4	<0.2	<10	260	1.05	0.32	0.55	0.14	17.75	11.2	26
DD023336		0.26	0.004	0.23	1.66	30.1	<0.2	<10	300	1.28	0.33	0.57	0.13	19.90	10.5	25
DD023337		0.18	0.004	0.14	1.56	37.4	<0.2	<10	220	1.21	0.34	0.38	0.29	21.6	14.9	27
DD023338		0.27	0.002	0.13	1.66	46.3	<0.2	<10	340	1.21	0.34	0.57	0.34	19.00	11.7	26
DD023339		0.21	0.002	0.13	1.91	42.1	<0.2	<10	470	1.10	0.29	0.45	0.13	20.1	11.0	29
DD023340		0.24	0.003	0.09	1.78	28.8	<0.2	<10	350	1.00	0.31	0.33	0.15	15.50	11.7	29
DD023341		0.20	0.002	0.20	0.91	25.0	<0.2	<10	150	1.02	0.29	0.25	0.23	22.3	11.8	17
DD023342		0.25	0.002	0.14	0.89	18.1	<0.2	<10	100	0.62	0.28	0.05	0.18	16.65	11.4	16
DD023343		0.36	0.003	0.33	1.76	19.2	<0.2	<10	150	0.87	0.35	0.05	0.15	17.75	16.1	28
DD023344		0.35	0.002	0.18	1.61	11.6	<0.2	<10	300	1.13	0.26	0.70	0.17	27.6	11.4	24
DD023345		0.31	0.001	0.05	1.31	14.5	<0.2	<10	280	1.80	0.30	0.21	0.08	19.90	16.4	26
DD023346		0.33	0.002	0.05	1.44	12.7	<0.2	<10	130	0.72	0.34	0.04	0.09	17.30	10.8	20
DD023347		0.25	0.001	0.05	1.29	7.7	<0.2	<10	200	1.08	0.34	0.14	0.18	9.52	14.7	17
DD023348		0.24	0.001	0.08	1.39	21.4	<0.2	<10	120	1.43	0.38	0.51	0.20	14.95	17.0	17
DD023349		0.19	0.001	0.08	0.38	9.1	<0.2	<10	100	0.40	0.21	0.14	0.05	8.28	4.3	7



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 Plus Appendix Pages  
 Finalized Date: 21- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD023311		1.77	18.0	3.78	6.37	0.06	0.03	0.29	0.037	0.06	9.9	21.1	0.46	890	1.20	0.01
DD023312		1.65	62.8	5.37	4.73	0.09	0.07	0.14	0.050	0.06	9.4	27.9	0.50	1190	1.27	<0.01
DD023313		0.92	19.1	2.64	2.47	0.06	0.05	2.05	0.020	0.04	12.5	10.4	6.06	1790	0.68	0.02
DD023314		1.08	46.7	4.22	4.57	0.07	0.10	0.12	0.040	0.07	10.4	33.2	0.57	581	0.78	<0.01
DD023315		1.35	48.4	5.13	5.73	0.07	0.05	0.04	0.047	0.07	8.5	36.0	0.63	571	0.87	0.01
DD023316		2.22	43.2	4.91	5.84	0.08	0.10	0.07	0.050	0.08	15.4	33.8	0.46	444	0.82	0.01
DD023317		2.23	39.6	3.07	3.63	0.07	0.13	0.16	0.040	0.10	23.5	16.6	0.30	302	0.77	0.01
DD023318		3.16	42.2	3.36	3.83	0.08	0.11	0.11	0.040	0.11	20.1	18.4	0.53	270	0.74	0.01
DD023319		3.33	43.5	2.88	4.46	0.07	0.10	0.10	0.037	0.11	18.2	22.2	0.58	324	0.41	0.01
DD023320		1.74	61.4	4.00	5.37	0.08	0.08	0.13	0.049	0.08	12.6	35.0	0.75	973	0.84	0.01
DD023321		1.23	44.0	3.65	4.94	0.08	0.04	0.18	0.038	0.06	15.6	23.1	0.57	786	1.10	0.01
DD023322		2.04	97.0	5.91	6.28	0.11	0.09	0.15	0.059	0.08	11.7	33.8	0.92	2230	1.13	0.01
DD023323		1.75	31.5	3.25	5.33	0.08	0.10	0.06	0.041	0.09	13.8	33.3	0.86	424	0.37	0.01
DD023324		3.91	36.6	2.72	3.52	0.08	0.12	0.10	0.036	0.10	20.6	16.5	0.53	186	0.48	0.01
DD023325		6.55	35.8	2.73	4.91	0.09	0.10	0.14	0.036	0.11	23.8	38.2	1.47	238	0.81	0.01
DD023326		2.26	47.5	4.29	4.59	0.07	0.09	0.09	0.044	0.08	15.9	23.3	0.40	392	0.87	<0.01
DD023327		1.58	45.3	4.78	5.89	0.08	0.04	0.12	0.045	0.08	10.8	31.3	0.58	598	0.83	0.01
DD023328		1.30	57.3	4.43	4.55	0.08	0.11	0.17	0.038	0.09	11.9	33.8	0.87	481	0.87	0.01
DD023329		0.67	11.4	2.08	1.55	<0.05	0.04	2.68	0.011	0.03	5.3	5.4	8.64	1990	0.55	0.02
DD023330		1.38	35.0	3.82	5.14	0.06	0.04	0.16	0.036	0.07	8.4	20.7	1.72	852	1.13	0.01
DD023331		1.85	43.0	5.15	6.54	0.08	0.07	0.12	0.051	0.07	8.3	33.4	0.56	726	1.15	<0.01
DD023332		2.52	28.9	3.92	4.88	0.07	0.07	0.72	0.041	0.08	12.5	21.9	0.41	742	0.93	0.01
DD023333		2.52	41.7	3.83	5.22	0.07	0.09	0.40	0.039	0.12	10.1	24.9	0.57	816	0.81	0.02
DD023334		3.11	37.5	3.66	6.05	0.06	0.11	0.23	0.039	0.12	10.8	25.5	0.47	536	0.85	0.02
DD023335		2.74	32.1	3.64	5.64	0.05	0.08	0.13	0.037	0.11	9.3	20.5	0.45	512	0.81	0.02
DD023336		2.50	36.4	3.43	5.92	0.06	0.10	0.53	0.039	0.12	10.3	18.0	0.45	449	0.81	0.02
DD023337		1.65	31.8	3.85	5.90	0.06	0.08	0.16	0.042	0.10	9.1	23.6	0.46	548	0.72	0.02
DD023338		1.88	27.6	3.69	5.91	0.06	0.07	0.16	0.036	0.10	8.5	17.7	0.38	678	0.87	0.02
DD023339		3.10	27.8	3.52	6.30	0.06	0.08	0.16	0.036	0.10	9.4	17.4	0.42	626	1.21	0.02
DD023340		3.07	29.4	3.69	6.09	0.06	0.12	0.08	0.037	0.11	6.6	16.4	0.41	522	1.45	0.01
DD023341		3.13	27.3	3.33	3.08	0.06	0.03	0.08	0.033	0.10	8.4	14.1	0.23	546	1.85	0.01
DD023342		3.13	27.6	3.04	3.71	0.05	0.02	0.06	0.029	0.10	6.4	8.5	0.14	501	2.12	0.01
DD023343		2.26	29.3	4.00	6.34	0.05	0.04	0.04	0.040	0.12	6.4	22.9	0.33	835	1.52	0.01
DD023344		1.77	23.0	3.18	5.03	0.06	0.05	0.03	0.034	0.09	12.1	15.6	0.36	493	1.83	0.02
DD023345		2.85	33.6	3.42	4.86	0.06	<0.02	0.03	0.030	0.14	6.6	19.4	0.41	831	1.14	0.01
DD023346		2.72	25.9	3.83	6.66	0.05	0.03	0.02	0.035	0.10	8.0	18.7	0.25	645	1.21	0.01
DD023347		3.86	26.0	2.74	5.02	0.05	0.02	0.04	0.032	0.15	3.6	21.5	0.31	1820	0.82	0.01
DD023348		2.03	25.9	3.51	4.84	0.06	0.07	0.03	0.040	0.15	5.2	25.2	0.29	1360	2.56	0.01
DD023349		0.74	12.4	2.14	1.31	<0.05	0.03	0.02	0.024	0.12	2.9	3.3	0.05	86	0.59	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DD023311		0.75	19.6	850	19.7	10.6	<0.001	0.05	0.59	3.5	0.6	0.6	25.1	<0.01	0.05	1.1
DD023312		0.23	36.8	510	26.3	9.7	<0.001	0.03	0.48	8.2	1.0	0.5	13.3	<0.01	0.08	4.6
DD023313		0.37	14.2	1000	24.2	6.0	<0.001	0.04	0.26	4.3	0.8	0.3	47.0	<0.01	0.04	1.7
DD023314		0.30	31.6	340	19.8	6.6	<0.001	0.03	0.57	8.1	0.8	0.4	23.8	<0.01	0.07	3.5
DD023315		0.30	33.4	270	21.6	9.9	<0.001	0.02	0.97	5.9	0.6	0.5	24.2	<0.01	0.08	3.4
DD023316		0.41	33.9	240	41.2	13.0	<0.001	0.02	0.44	7.8	0.9	0.5	18.6	<0.01	0.07	5.4
DD023317		0.33	28.7	390	15.7	11.9	<0.001	0.04	0.42	7.9	1.5	0.5	42.5	<0.01	0.04	5.2
DD023318		0.32	37.1	690	17.8	9.8	<0.001	0.04	0.40	8.1	1.2	0.4	61.0	<0.01	0.04	5.3
DD023319		0.41	31.7	710	13.9	11.8	<0.001	0.07	0.34	7.6	1.5	0.5	67.0	<0.01	0.04	2.9
DD023320		0.34	40.4	670	20.8	7.9	<0.001	0.04	0.52	8.9	1.1	0.5	40.3	<0.01	0.07	2.6
DD023321		0.68	28.7	720	15.1	8.8	<0.001	0.05	0.85	6.1	1.3	0.5	44.7	0.01	0.07	1.2
DD023322		0.26	42.3	390	16.5	7.1	<0.001	0.03	0.51	14.8	1.3	0.4	32.5	<0.01	0.14	2.8
DD023323		0.43	35.8	670	15.6	9.2	<0.001	0.06	0.28	7.0	1.1	0.5	51.8	<0.01	0.04	3.4
DD023324		0.36	31.9	670	14.1	10.9	<0.001	0.06	0.36	7.1	1.4	0.4	75.1	<0.01	0.03	4.0
DD023325		0.47	30.3	780	13.8	13.5	<0.001	0.06	0.42	7.8	1.7	0.4	77.8	<0.01	0.03	4.1
DD023326		0.25	29.5	420	18.2	10.9	<0.001	0.03	0.46	6.7	0.9	0.4	57.2	<0.01	0.07	3.8
DD023327		0.35	31.8	260	20.2	11.5	<0.001	0.02	0.41	7.4	0.7	0.5	20.8	<0.01	0.07	4.0
DD023328		0.21	34.2	310	20.9	5.8	<0.001	0.03	0.60	8.7	0.9	0.3	45.6	<0.01	0.07	4.1
DD023329		0.27	8.6	980	34.3	4.1	<0.001	0.06	0.27	1.8	0.8	0.2	68.8	<0.01	0.03	0.5
DD023330		0.53	24.5	500	18.6	10.3	<0.001	0.03	0.44	5.1	0.7	0.5	16.9	<0.01	0.06	2.6
DD023331		0.48	31.2	280	20.2	12.3	<0.001	0.02	0.40	5.9	0.7	0.6	8.8	<0.01	0.08	4.0
DD023332		0.55	21.7	660	24.5	14.1	<0.001	0.05	0.46	6.2	1.0	0.6	19.9	<0.01	0.06	2.2
DD023333		0.46	25.8	740	28.9	15.1	<0.001	0.06	0.39	5.5	0.9	0.6	42.0	<0.01	0.07	2.2
DD023334		0.59	23.0	970	21.8	21.8	0.001	0.06	0.37	5.8	1.1	0.7	38.5	<0.01	0.07	2.2
DD023335		0.55	21.1	910	21.0	20.2	<0.001	0.06	0.33	4.9	0.5	0.6	38.6	<0.01	0.06	2.0
DD023336		0.56	22.3	930	20.4	19.1	<0.001	0.07	0.32	5.3	1.1	0.7	44.2	<0.01	0.06	2.1
DD023337		0.61	28.4	460	20.2	13.5	<0.001	0.03	0.29	5.6	0.8	0.8	23.2	<0.01	0.06	3.4
DD023338		0.55	21.5	930	22.5	16.3	<0.001	0.06	0.31	4.1	0.5	0.7	23.8	<0.01	0.05	1.9
DD023339		0.67	20.6	1220	17.8	21.4	<0.001	0.08	0.42	4.2	0.5	0.7	19.9	<0.01	0.06	1.5
DD023340		0.69	23.5	840	21.2	20.3	<0.001	0.04	0.49	4.4	0.6	0.8	16.5	<0.01	0.06	2.3
DD023341		0.41	29.5	590	32.7	12.8	0.001	0.04	0.61	4.0	0.8	0.5	15.3	<0.01	0.03	2.2
DD023342		0.43	20.9	650	28.3	13.2	<0.001	0.07	0.60	2.1	0.8	0.6	10.3	<0.01	0.05	0.8
DD023343		0.75	26.4	370	24.0	20.5	0.001	0.03	0.54	3.8	0.4	0.9	9.4	<0.01	0.07	3.3
DD023344		0.58	26.8	850	17.2	14.9	0.001	0.05	0.70	2.7	0.8	0.7	25.8	<0.01	0.04	1.3
DD023345		0.74	27.2	310	23.1	19.5	<0.001	0.02	0.40	3.9	0.6	0.9	11.0	<0.01	0.04	3.7
DD023346		0.93	16.2	370	16.3	18.5	<0.001	0.02	0.49	3.0	0.6	0.8	6.9	<0.01	0.06	2.9
DD023347		0.45	18.6	450	15.4	20.5	<0.001	0.04	0.33	2.6	0.4	0.6	9.6	<0.01	0.04	2.0
DD023348		0.37	20.8	380	37.5	18.1	<0.001	0.03	0.36	3.6	0.5	0.7	14.4	<0.01	0.04	2.5
DD023349		0.15	8.7	500	21.7	7.4	<0.001	0.17	0.25	0.9	<0.2	0.3	15.9	<0.01	0.04	0.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 21- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD023311		0.022	0.61	1.15	53	0.27	4.51	111	0.7
DD023312		<0.005	0.26	1.05	38	0.07	9.61	91	1.9
DD023313		0.008	1.07	2.21	22	0.37	12.10	58	1.1
DD023314		0.006	0.15	1.43	31	0.07	12.05	74	2.6
DD023315		<0.005	0.13	0.83	46	0.06	4.64	72	1.7
DD023316		0.005	0.19	2.87	48	0.08	7.85	67	3.3
DD023317		0.006	0.29	2.73	31	0.08	13.65	80	4.0
DD023318		0.007	0.22	2.38	28	0.07	15.55	91	3.4
DD023319		0.008	0.20	5.19	25	0.08	16.95	81	2.8
DD023320		0.007	0.11	2.70	31	0.07	19.65	88	1.7
DD023321		0.023	0.13	1.70	44	0.27	18.30	71	0.8
DD023322		0.006	0.14	1.19	58	0.06	20.4	80	2.0
DD023323		0.009	0.11	2.50	26	0.06	14.40	87	2.5
DD023324		0.008	0.17	3.57	24	0.07	15.50	79	3.3
DD023325		0.013	0.17	2.64	30	0.07	15.15	88	3.1
DD023326		<0.005	0.15	2.52	39	0.05	9.72	75	2.5
DD023327		0.005	0.20	1.41	43	0.09	8.27	70	1.3
DD023328		<0.005	0.16	1.60	33	0.05	13.30	74	3.4
DD023329		0.007	0.68	2.41	13	0.14	7.23	194	1.0
DD023330		0.008	0.27	1.06	41	0.14	6.78	76	1.1
DD023331		0.006	0.21	0.65	53	0.10	4.09	63	2.5
DD023332		0.010	0.64	1.74	37	0.20	12.65	113	1.4
DD023333		0.008	0.30	1.23	37	0.10	13.25	127	1.7
DD023334		0.006	0.28	1.61	41	0.14	14.75	100	2.2
DD023335		0.007	0.23	1.21	39	0.12	11.30	99	1.8
DD023336		0.005	0.27	1.43	34	0.12	20.9	97	2.0
DD023337		0.008	0.22	1.18	34	0.12	10.85	95	1.8
DD023338		0.007	0.32	1.13	39	0.14	8.32	111	1.5
DD023339		0.008	0.38	1.22	51	0.19	7.96	89	1.7
DD023340		0.007	0.31	0.96	47	0.19	5.54	82	2.5
DD023341		0.008	0.26	0.83	26	0.11	9.44	94	0.7
DD023342		0.008	0.27	0.73	33	0.09	4.29	74	<0.5
DD023343		0.008	0.23	0.71	43	0.22	3.81	67	1.0
DD023344		0.008	0.17	1.28	45	0.14	7.88	74	1.0
DD023345		0.016	0.15	0.70	30	0.27	6.47	65	<0.5
DD023346		0.011	0.15	0.52	42	0.13	2.95	60	1.0
DD023347		0.009	0.12	0.37	23	0.06	3.49	80	0.6
DD023348		<0.005	0.14	0.73	22	0.05	7.20	81	1.7
DD023349		<0.005	0.08	0.30	10	<0.05	1.73	40	0.7



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158784**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12158785**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 14  
 This report is for 173 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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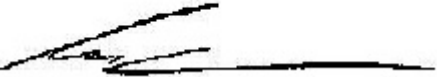
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59531		0.22	0.005	2.60	0.59	38.5	<0.2	10	1280	0.68	0.17	1.39	0.71	6.55	5.6	20
ZZ59532		0.30	0.004	3.18	0.46	27.0	<0.2	10	1280	0.57	0.15	2.27	0.91	5.82	5.1	23
ZZ59533		0.31	0.002	0.98	0.73	36.4	<0.2	<10	780	0.57	0.17	0.62	2.20	12.75	4.9	22
ZZ59534		0.29	0.003	6.16	0.40	34.5	<0.2	10	1210	0.70	0.19	0.76	4.14	8.10	6.4	32
ZZ59535		0.32	0.008	3.94	0.50	83.2	<0.2	10	1100	0.75	0.21	1.21	3.10	11.20	7.3	35
ZZ59536		0.34	0.006	2.71	0.51	36.5	<0.2	10	1560	0.70	0.18	0.81	1.88	9.18	6.0	32
ZZ59537		0.16	0.007	12.10	0.79	45.6	<0.2	20	5880	0.96	0.17	2.20	15.65	10.75	4.5	106
ZZ59538		0.28	0.008	1.59	1.27	410	<0.2	<10	350	1.47	0.20	3.46	9.17	19.70	9.2	19
ZZ59539		0.30	0.006	0.73	1.31	292	<0.2	<10	280	1.18	0.24	1.27	3.66	29.1	10.2	23
ZZ59540		0.23	0.008	0.63	1.45	344	<0.2	<10	200	1.05	0.25	1.67	8.25	29.5	10.7	27
ZZ59541		0.35	0.012	0.63	1.18	2600	<0.2	<10	290	2.38	0.26	3.55	7.76	22.9	19.2	29
ZZ59542		0.20	0.020	0.93	1.30	1330	<0.2	10	670	2.27	0.21	3.73	16.60	18.60	11.3	31
ZZ59543		0.24	0.010	0.77	1.32	413	<0.2	<10	380	1.20	0.26	1.02	4.90	28.8	10.2	26
ZZ59544		0.35	0.134	1.71	0.87	409	<0.2	<10	580	1.17	0.17	8.65	4.52	14.25	6.8	15
ZZ59545		0.36	0.010	0.43	0.93	291	<0.2	<10	390	1.38	0.28	0.11	0.59	15.80	7.8	15
ZZ59546		0.31	0.012	1.17	0.64	159.0	<0.2	<10	410	1.03	0.24	0.88	1.66	12.35	7.6	12
ZZ59547		0.23	0.014	1.18	0.77	280	<0.2	10	330	0.95	0.19	1.45	3.76	19.80	8.6	16
ZZ59548		0.21	0.009	0.77	0.78	198.0	<0.2	10	520	0.97	0.23	1.53	2.07	12.85	9.9	12
ZZ59549		0.20	0.011	1.24	0.86	780	<0.2	10	630	1.07	0.18	1.60	7.57	20.4	6.6	16
ZZ59550		0.24	0.011	1.60	0.80	786	<0.2	10	680	1.04	0.15	2.17	13.15	16.10	7.5	18
ZZ59551		0.23	0.015	1.74	0.89	1110	<0.2	10	780	1.20	0.15	2.42	14.40	18.55	6.0	26
ZZ59552		0.19	0.008	1.45	0.67	531	<0.2	10	600	0.90	0.13	4.91	14.80	21.7	6.6	33
ZZ59553		0.23	0.006	1.16	0.76	637	<0.2	10	810	1.06	0.18	3.68	14.75	22.2	7.9	33
ZZ59554		0.24	0.004	0.91	1.02	655	<0.2	<10	240	0.99	0.19	2.17	8.03	21.6	7.5	23
ZZ59555		0.31	0.004	0.60	1.67	474	<0.2	<10	410	1.17	0.24	0.24	1.77	27.2	10.2	27
ZZ59556		0.31	0.004	0.27	1.59	658	<0.2	<10	360	0.89	0.25	0.07	2.23	22.3	12.1	26
ZZ59557		0.28	0.004	0.79	1.83	670	<0.2	<10	340	1.38	0.24	0.79	2.70	22.2	11.8	30
ZZ59558		0.30	0.002	0.68	1.26	125.0	<0.2	<10	190	0.96	0.19	0.36	0.99	33.1	9.7	20
ZZ59559		0.31	0.004	0.45	1.61	85.4	<0.2	<10	320	1.09	0.23	0.22	1.46	39.8	13.7	27
ZZ59560		0.33	0.004	0.42	1.40	174.0	<0.2	<10	310	1.19	0.23	0.29	1.42	29.9	14.2	23
ZZ59561		0.33	0.002	0.30	1.20	121.5	<0.2	<10	240	1.12	0.28	1.02	3.37	25.3	15.1	21
ZZ59562		0.31	0.001	0.19	1.29	21.8	<0.2	<10	360	1.22	0.23	0.35	0.45	24.6	13.7	19
ZZ59563		0.30	<0.001	0.09	1.26	16.3	<0.2	<10	410	1.16	0.21	0.61	0.26	20.9	9.4	16
ZZ59564		0.35	0.001	0.05	1.15	26.1	<0.2	<10	70	0.48	0.34	0.03	0.31	20.5	9.7	20
ZZ59565		0.38	0.002	0.07	1.82	20.7	<0.2	<10	140	0.89	0.34	0.22	0.56	23.9	13.1	27
ZZ59566		0.28	<0.001	0.75	1.29	16.6	<0.2	<10	250	0.88	0.18	1.64	0.89	29.1	6.3	55
ZZ59567		0.26	0.001	0.32	1.62	18.6	<0.2	<10	460	0.78	0.31	1.13	0.80	12.60	6.0	24
ZZ59568		0.31	0.001	0.16	1.63	17.7	<0.2	<10	140	0.57	0.30	0.19	0.14	20.5	12.5	24
ZZ59569		0.33	0.002	0.08	1.86	44.7	<0.2	<10	150	1.43	0.33	0.17	0.40	32.0	21.8	25
ZZ59570		0.27	0.007	0.83	0.53	9.0	<0.2	<10	250	0.55	0.13	2.68	2.23	20.1	6.7	8



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59531		0.40	35.3	2.18	2.00	<0.05	0.06	0.18	0.033	0.06	4.8	3.3	0.07	128	6.45	0.02
ZZ59532		0.40	33.3	2.05	1.63	<0.05	0.05	0.19	0.028	0.06	4.9	2.5	0.04	81	9.63	0.02
ZZ59533		1.85	22.2	1.73	2.72	<0.05	0.02	0.12	0.031	0.05	6.3	3.4	0.04	109	5.71	0.02
ZZ59534		0.62	47.0	2.80	1.61	0.05	0.04	0.25	0.040	0.06	6.5	2.7	0.04	146	13.05	0.02
ZZ59535		1.09	54.1	3.30	1.88	0.07	0.04	0.31	0.044	0.10	7.5	3.3	0.09	165	12.70	0.02
ZZ59536		1.01	50.6	2.60	1.93	0.05	0.05	0.21	0.042	0.08	6.4	2.7	0.04	80	9.85	0.02
ZZ59537		0.73	75.9	1.97	2.91	0.07	0.06	0.38	0.034	0.05	10.4	5.4	0.19	109	28.0	0.06
ZZ59538		0.93	26.2	2.15	4.03	<0.05	0.03	0.77	0.031	0.04	14.9	7.3	0.20	896	3.70	0.02
ZZ59539		1.41	22.7	2.94	4.53	<0.05	0.03	0.27	0.038	0.05	16.4	10.2	0.24	565	4.00	0.02
ZZ59540		1.37	21.8	2.93	4.42	<0.05	0.02	0.34	0.033	0.05	17.1	10.4	0.31	673	2.76	0.02
ZZ59541		3.08	47.0	5.34	3.99	0.08	0.05	0.40	0.039	0.13	11.7	10.9	0.24	646	9.27	0.02
ZZ59542		2.86	64.0	3.69	3.21	0.06	0.07	0.85	0.032	0.08	9.7	10.6	0.80	304	8.55	0.02
ZZ59543		1.66	24.6	3.11	4.82	<0.05	0.04	0.39	0.034	0.06	13.6	13.3	0.36	457	2.97	0.02
ZZ59544		1.29	25.9	2.05	2.60	<0.05	0.03	0.66	0.032	0.06	9.0	8.9	4.94	298	2.54	0.03
ZZ59545		7.29	41.0	2.79	3.53	<0.05	0.03	0.51	0.051	0.10	6.5	5.5	0.10	133	3.61	0.01
ZZ59546		8.82	60.0	2.08	2.52	<0.05	0.07	1.00	0.042	0.10	6.4	4.8	0.10	120	3.97	0.01
ZZ59547		2.44	35.8	2.29	2.76	<0.05	0.04	1.88	0.039	0.09	11.3	8.4	0.28	236	4.06	0.02
ZZ59548		3.17	37.8	2.14	2.58	<0.05	0.05	0.73	0.037	0.07	5.6	5.5	0.14	683	3.27	0.02
ZZ59549		2.98	50.8	2.07	2.38	0.05	0.06	0.97	0.033	0.07	11.0	6.1	0.13	150	4.49	0.02
ZZ59550		1.24	66.7	1.80	2.42	<0.05	0.06	1.48	0.031	0.06	11.8	6.6	0.16	363	5.44	0.02
ZZ59551		1.87	64.1	2.11	2.46	0.06	0.06	1.77	0.029	0.08	19.1	5.8	0.23	108	10.55	0.02
ZZ59552		1.51	50.9	1.57	2.58	0.09	0.04	3.45	0.023	0.07	23.0	4.5	0.30	290	15.05	0.02
ZZ59553		0.87	36.8	2.13	2.53	0.08	0.04	2.23	0.025	0.10	20.5	5.8	0.28	393	15.05	0.03
ZZ59554		1.63	23.6	2.67	2.90	0.05	0.05	0.54	0.032	0.07	16.5	7.8	0.22	231	11.30	0.01
ZZ59555		1.95	31.8	3.25	4.98	0.05	0.04	0.25	0.038	0.07	13.4	15.5	0.25	267	6.68	0.01
ZZ59556		2.40	34.2	3.58	5.36	<0.05	0.02	0.16	0.036	0.07	10.7	13.4	0.20	332	8.99	0.01
ZZ59557		2.25	32.6	3.57	5.06	0.05	0.06	0.43	0.037	0.07	13.5	14.8	0.29	386	8.39	0.01
ZZ59558		2.11	25.9	3.12	3.82	<0.05	0.03	0.14	0.040	0.07	11.8	9.8	0.13	354	7.00	<0.01
ZZ59559		1.94	29.4	3.27	4.75	0.06	0.04	0.13	0.041	0.08	17.0	15.4	0.38	545	3.25	0.01
ZZ59560		1.77	46.0	3.86	4.17	0.06	0.06	0.13	0.042	0.09	14.1	18.4	0.37	507	5.68	0.01
ZZ59561		1.42	43.8	3.93	3.73	0.05	0.06	0.19	0.040	0.13	11.0	15.0	0.57	912	6.61	0.01
ZZ59562		1.30	25.9	3.31	3.98	<0.05	0.06	0.09	0.045	0.12	9.7	12.5	0.24	598	6.21	0.01
ZZ59563		1.38	20.4	2.91	3.72	<0.05	0.08	0.08	0.041	0.12	8.5	8.7	0.17	232	5.37	0.01
ZZ59564		1.76	22.1	4.76	6.87	0.06	<0.02	0.05	0.030	0.08	8.0	10.1	0.13	504	6.93	<0.01
ZZ59565		1.90	24.9	4.40	5.51	<0.05	0.02	0.03	0.046	0.10	8.6	28.4	0.36	637	3.79	<0.01
ZZ59566		1.15	36.5	2.03	3.74	0.05	0.03	0.15	0.027	0.05	22.5	10.5	0.36	412	4.32	0.01
ZZ59567		1.72	28.5	2.68	6.65	<0.05	0.07	0.11	0.030	0.07	8.3	14.8	0.23	247	1.87	0.01
ZZ59568		1.54	30.6	4.59	5.67	0.05	0.02	0.09	0.036	0.06	8.7	23.3	0.37	476	1.29	<0.01
ZZ59569		2.18	57.8	5.04	4.83	0.05	0.08	0.11	0.050	0.09	11.3	33.9	0.47	1260	0.85	<0.01
ZZ59570		0.33	18.7	1.63	1.53	<0.05	0.05	0.12	0.022	0.08	12.7	3.2	0.09	224	3.89	0.01

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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ59531	0.05	0.13	55.8	960	11.0	5.2	0.002	0.09	1.39	3.5	3.5	0.5	92.7	<0.01	0.11	0.5
ZZ59532	0.10	0.10	75.4	1330	9.3	4.3	0.004	0.15	1.73	3.3	6.1	0.5	194.0	<0.01	0.10	0.4
ZZ59533	0.35	0.35	38.9	910	11.0	8.2	<0.001	0.08	1.13	2.2	3.5	0.6	76.3	0.01	0.11	0.5
ZZ59534	0.10	0.10	87.8	990	12.2	4.3	0.001	0.06	2.41	6.0	7.0	0.5	125.0	<0.01	0.15	1.3
ZZ59535	0.12	0.12	95.4	1830	14.5	6.7	0.003	0.18	2.45	7.1	8.5	0.6	246	<0.01	0.13	2.0
ZZ59536	0.10	0.10	75.1	1580	12.0	7.3	0.003	0.07	1.62	6.5	5.9	0.6	153.0	<0.01	0.10	2.1
ZZ59537	0.23	0.23	111.5	2210	9.6	6.1	0.004	0.10	6.19	4.0	14.5	0.6	240	<0.01	0.13	0.6
ZZ59538	0.51	0.51	41.5	1950	91.0	8.2	0.001	0.21	2.03	1.1	2.4	0.4	41.3	<0.01	0.08	0.2
ZZ59539	0.55	0.55	44.2	810	35.1	8.0	0.001	0.08	1.60	2.8	2.1	0.6	28.2	<0.01	0.07	0.8
ZZ59540	0.63	0.63	45.0	1130	35.9	8.0	0.001	0.11	1.53	2.1	1.9	0.6	31.0	<0.01	0.07	0.4
ZZ59541	0.37	0.37	301	1050	75.1	8.5	0.001	0.07	4.26	5.0	6.9	0.7	73.9	<0.01	0.11	1.7
ZZ59542	0.25	0.25	220	1600	45.8	7.6	0.001	0.10	4.14	2.8	6.5	0.6	99.6	<0.01	0.07	0.7
ZZ59543	0.76	0.76	40.2	830	46.2	9.8	<0.001	0.06	2.56	4.0	1.5	0.6	28.6	<0.01	0.07	1.4
ZZ59544	0.29	0.29	39.3	760	94.0	6.0	<0.001	0.06	3.57	3.4	2.1	0.5	73.0	<0.01	0.06	0.6
ZZ59545	0.25	0.25	27.3	610	52.3	15.4	<0.001	0.08	2.02	3.7	2.3	0.6	48.0	<0.01	0.11	1.5
ZZ59546	0.28	0.28	36.9	610	40.6	14.2	0.001	0.06	2.49	4.4	2.5	0.6	41.4	<0.01	0.08	2.4
ZZ59547	0.29	0.29	46.3	890	81.2	9.1	0.001	0.05	2.67	3.8	2.4	0.5	44.2	<0.01	0.09	1.5
ZZ59548	0.23	0.23	29.3	940	44.5	10.3	0.002	0.08	1.95	2.0	4.2	0.4	37.1	<0.01	0.09	0.7
ZZ59549	0.26	0.26	77.4	1270	56.3	10.0	0.002	0.13	3.33	2.4	5.1	0.4	62.9	<0.01	0.07	0.8
ZZ59550	0.27	0.27	107.0	1060	84.1	7.2	0.003	0.11	6.58	2.4	5.9	0.4	53.8	<0.01	0.06	0.6
ZZ59551	0.30	0.30	133.0	1180	113.5	8.0	0.003	0.12	14.20	2.8	6.7	0.4	66.6	<0.01	0.06	0.7
ZZ59552	0.35	0.35	120.0	1540	70.4	6.6	0.002	0.16	14.55	1.6	13.9	0.4	59.8	<0.01	0.05	0.3
ZZ59553	0.35	0.35	101.5	1620	67.0	7.4	0.001	0.15	14.15	2.4	9.1	0.4	50.7	<0.01	0.04	0.6
ZZ59554	0.41	0.41	86.8	1080	63.2	9.1	0.001	0.09	4.32	3.2	4.6	0.4	45.8	<0.01	0.03	1.2
ZZ59555	0.44	0.44	56.6	1440	48.2	12.5	<0.001	0.04	1.98	2.9	2.0	0.6	27.5	<0.01	0.04	1.0
ZZ59556	0.46	0.46	67.9	720	54.6	13.3	<0.001	0.03	2.31	3.9	2.0	0.6	29.4	<0.01	0.06	2.5
ZZ59557	0.44	0.44	88.5	1130	81.9	11.8	0.001	0.05	2.72	4.3	1.9	0.6	41.4	<0.01	0.07	1.5
ZZ59558	0.36	0.36	43.5	2030	23.0	11.1	<0.001	0.05	2.02	2.2	1.4	0.5	18.8	<0.01	0.03	0.8
ZZ59559	0.59	0.59	39.9	930	21.6	11.6	0.001	0.02	1.36	4.4	0.7	0.6	17.4	<0.01	0.02	1.8
ZZ59560	0.36	0.36	49.3	1280	29.3	10.5	0.001	0.03	2.18	5.3	1.9	0.5	26.3	<0.01	0.07	2.5
ZZ59561	0.37	0.37	44.5	1040	47.5	11.0	0.001	0.04	2.14	4.5	1.5	0.5	23.5	<0.01	0.03	2.1
ZZ59562	0.38	0.38	32.3	1260	16.3	12.4	0.001	0.08	1.17	3.8	1.0	0.6	18.9	<0.01	0.02	1.4
ZZ59563	0.44	0.44	26.3	1210	13.3	12.7	<0.001	0.09	0.92	3.3	0.2	0.6	26.3	<0.01	0.02	1.6
ZZ59564	0.92	0.92	22.3	680	23.4	18.7	0.001	0.02	1.16	2.7	1.1	0.8	7.8	<0.01	0.06	2.3
ZZ59565	0.63	0.63	25.4	1040	24.8	15.5	<0.001	0.02	0.82	3.0	0.6	0.6	13.5	<0.01	0.05	1.6
ZZ59566	0.36	0.36	53.4	1660	12.2	8.4	0.003	0.08	1.27	2.3	7.1	0.5	48.0	<0.01	0.05	0.8
ZZ59567	0.47	0.47	25.5	1470	14.4	13.7	0.002	0.10	0.61	2.3	1.5	0.7	28.4	<0.01	0.07	0.8
ZZ59568	0.62	0.62	21.9	570	24.6	9.3	0.001	0.02	0.51	3.2	0.3	0.5	13.6	<0.01	0.06	1.5
ZZ59569	0.32	0.32	35.0	750	41.4	11.6	<0.001	0.02	0.55	5.8	0.5	0.5	15.5	<0.01	0.09	3.6
ZZ59570	0.27	0.27	29.8	1010	8.9	5.9	0.001	0.17	2.25	1.3	1.2	0.2	107.0	<0.01	0.03	0.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59531		<0.005	0.14	2.84	59	0.08	25.2	153	2.2
ZZ59532		<0.005	0.16	4.11	62	0.09	25.8	225	1.7
ZZ59533		0.009	0.22	2.64	48	0.15	14.10	149	0.6
ZZ59534		<0.005	0.34	3.09	66	0.14	47.8	261	1.9
ZZ59535		<0.005	0.41	4.23	81	0.13	44.6	299	2.2
ZZ59536		<0.005	0.18	5.30	70	0.10	35.8	266	2.4
ZZ59537		0.005	0.59	8.09	235	0.28	43.9	417	3.0
ZZ59538		0.010	0.25	6.37	64	0.51	32.6	314	1.1
ZZ59539		0.013	0.36	2.17	70	0.34	19.15	181	0.9
ZZ59540		0.020	0.30	2.82	79	0.68	28.1	194	0.7
ZZ59541		0.009	1.41	2.15	106	1.17	38.4	1220	1.5
ZZ59542		<0.005	0.78	2.68	103	0.83	38.9	1220	2.1
ZZ59543		0.019	0.37	1.17	69	0.45	16.15	264	1.4
ZZ59544		0.007	0.33	0.95	56	0.49	21.8	301	1.3
ZZ59545		<0.005	0.97	1.29	63	0.46	10.75	199	0.9
ZZ59546		<0.005	0.98	1.54	49	0.34	12.65	249	2.3
ZZ59547		0.005	0.81	1.75	81	0.24	19.05	471	1.6
ZZ59548		<0.005	0.48	3.80	58	0.22	10.95	264	1.5
ZZ59549		<0.005	2.71	3.61	119	0.17	32.2	635	2.0
ZZ59550		<0.005	2.20	4.26	137	0.18	28.9	938	2.1
ZZ59551		<0.005	3.81	4.21	302	0.27	47.1	1180	1.8
ZZ59552		0.005	5.46	9.54	406	0.29	48.5	1020	1.3
ZZ59553		0.005	2.78	3.94	309	0.28	45.7	1220	1.5
ZZ59554		0.005	1.85	4.60	204	0.21	27.2	803	1.6
ZZ59555		0.006	1.05	2.99	127	0.18	15.85	334	0.9
ZZ59556		0.006	1.46	1.68	151	0.16	14.35	375	0.6
ZZ59557		0.005	1.40	4.11	184	0.25	22.5	556	1.6
ZZ59558		<0.005	0.45	2.37	94	0.16	11.35	306	0.8
ZZ59559		0.011	0.32	1.74	74	0.18	15.60	183	1.0
ZZ59560		0.005	0.41	2.06	87	0.11	15.85	284	1.5
ZZ59561		0.005	0.61	1.98	79	0.12	12.95	357	1.4
ZZ59562		<0.005	0.28	1.59	59	0.06	11.00	149	1.8
ZZ59563		<0.005	0.35	1.44	51	0.06	9.60	115	2.2
ZZ59564		0.012	0.26	0.85	83	0.12	3.39	122	0.7
ZZ59565		0.009	0.26	1.10	63	0.24	5.35	152	0.6
ZZ59566		0.006	0.18	2.92	105	0.15	24.4	199	0.8
ZZ59567		0.005	0.35	3.65	144	0.07	8.64	140	2.0
ZZ59568		0.010	0.17	0.60	49	0.11	3.17	62	0.5
ZZ59569		<0.005	0.33	1.64	36	0.09	9.54	132	2.2
ZZ59570		<0.005	0.36	2.58	43	0.05	13.80	164	1.2



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59571		0.24	0.003	0.46	0.83	17.9	<0.2	<10	220	0.87	0.22	1.61	2.56	41.4	9.1	12
ZZ59572		0.28	0.005	0.28	1.33	30.3	<0.2	<10	160	0.91	0.19	0.23	1.00	37.7	9.7	24
ZZ59573		0.28	0.002	1.04	1.32	48.4	<0.2	<10	410	1.35	0.24	0.43	2.85	39.9	12.2	22
ZZ59574		0.32	0.003	0.37	1.38	131.5	<0.2	<10	300	1.20	0.21	2.48	2.15	44.5	13.3	27
ZZ59575		0.28	0.001	0.07	1.87	120.5	<0.2	<10	410	1.28	0.25	0.45	0.58	36.4	11.0	28
ZZ59576		0.41	0.008	0.78	1.31	964	<0.2	<10	720	1.36	0.24	0.50	4.54	25.3	13.4	24
ZZ59577		0.28	0.007	0.26	1.58	1180	<0.2	<10	230	1.10	0.22	0.17	4.02	27.3	8.9	29
ZZ59578		0.37	0.003	0.50	0.46	105.0	<0.2	<10	350	0.82	0.24	0.13	1.17	16.15	10.6	10
ZZ59579		0.26	0.008	0.99	0.75	335	<0.2	<10	560	1.10	0.16	1.46	3.19	26.0	7.6	14
ZZ59580		0.38	0.009	1.26	1.15	172.5	<0.2	<10	570	0.93	0.23	0.23	2.03	16.95	9.1	23
ZZ59581		0.33	0.002	0.90	1.03	25.5	<0.2	<10	270	1.00	0.24	1.09	2.17	34.0	11.7	17
ZZ59582		0.26	0.002	0.28	0.74	35.1	<0.2	<10	190	0.73	0.14	2.10	0.79	28.3	6.3	13
ZZ59583		0.22	0.002	0.42	1.21	31.3	<0.2	<10	320	1.14	0.20	1.05	0.32	46.7	9.9	16
ZZ59584		0.32	0.002	1.23	0.79	42.8	<0.2	<10	160	1.05	0.18	0.68	6.34	38.7	11.2	15
ZZ59585		0.27	0.003	0.13	1.67	79.9	<0.2	<10	280	0.90	0.26	0.39	0.73	33.3	13.5	35
ZZ59586		0.24	0.002	0.06	2.10	17.8	<0.2	<10	160	0.71	0.28	0.12	0.30	27.9	9.8	33
ZZ59587		0.31	0.003	0.16	2.28	34.0	<0.2	<10	280	1.41	0.26	0.63	0.58	56.4	13.8	26
ZZ59588		0.30	0.002	0.04	1.99	45.8	<0.2	<10	220	1.32	0.31	0.18	0.20	28.1	17.9	25
ZZ59589		0.26	0.001	0.09	1.49	42.1	<0.2	<10	230	0.92	0.29	0.29	0.38	34.6	11.8	21
ZZ59590		0.28	0.003	0.45	1.37	131.0	<0.2	<10	370	1.25	0.20	0.63	0.80	52.0	16.5	21
ZZ59591		0.23	0.001	0.16	1.52	25.3	<0.2	<10	310	1.33	0.11	0.36	1.17	65.8	22.2	43
ZZ59592		0.26	0.002	0.21	1.75	36.7	<0.2	<10	310	0.93	0.27	0.96	0.31	32.5	10.5	26
ZZ59593		0.22	0.003	0.21	1.60	69.3	<0.2	<10	300	1.01	0.33	1.31	0.79	27.1	11.2	23
ZZ59594		0.24	0.002	0.27	1.86	127.5	<0.2	<10	220	0.84	0.28	1.04	2.09	44.3	10.1	27
ZZ59595		0.34	0.060	2.50	1.23	9340	<0.2	<10	1170	5.80	0.20	3.00	53.8	35.2	54.2	21
ZZ59596		0.27	0.026	0.55	1.45	427	<0.2	<10	690	1.01	0.31	0.11	2.22	22.7	11.5	23
ZZ59597		0.35	0.004	0.62	0.68	151.5	<0.2	<10	250	0.85	0.30	0.07	1.58	20.2	13.4	12
ZZ59598		0.31	0.011	0.64	0.62	69.3	<0.2	<10	250	0.38	0.32	0.02	0.38	8.48	7.6	12
ZZ59599		0.32	0.005	0.33	0.78	38.3	<0.2	<10	230	0.36	0.26	0.01	0.23	14.00	8.0	14
ZZ59600		0.35	0.009	0.92	0.71	104.0	<0.2	<10	590	0.46	0.26	0.02	0.38	10.60	3.2	13
ZZ59601		0.32	0.016	22.8	0.88	71.1	<0.2	10	2020	0.91	0.21	3.16	42.9	7.57	6.0	184
ZZ59602		0.32	0.008	8.66	1.04	88.2	<0.2	10	2210	0.81	0.23	0.51	6.63	9.60	6.2	104
ZZ59603		0.33	0.126	3.12	0.88	99.5	<0.2	10	1900	0.61	0.26	0.43	1.46	8.81	5.3	28
ZZ59604		0.34	0.009	2.70	0.43	31.8	<0.2	10	1560	0.58	0.19	1.11	2.09	7.67	5.7	28
ZZ59605		0.29	0.006	3.02	0.48	30.0	<0.2	10	1600	0.69	0.18	1.34	1.67	7.98	4.5	30
ZZ59606		0.29	0.006	4.21	0.46	32.9	<0.2	10	1950	0.67	0.16	1.60	2.00	7.17	4.6	31
ZZ59607		0.21	0.006	1.29	0.59	32.5	<0.2	10	2120	0.68	0.16	1.65	0.66	5.89	4.9	19
ZZ59608		0.26	0.002	0.29	1.03	37.6	<0.2	<10	180	0.31	0.26	0.04	0.30	16.15	4.6	20
ZZ59609		0.33	0.003	1.95	0.75	31.4	<0.2	<10	1080	0.41	0.25	0.28	0.68	9.78	4.7	27
ZZ59610		0.28	0.003	1.01	0.94	21.8	<0.2	<10	1020	0.48	0.23	0.79	0.39	10.25	4.1	28





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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ59571		0.25	17.5	2.51	2.11	0.05	0.04	0.09	0.029	0.09	22.1	4.4	0.15	426	4.57	0.01
ZZ59572		3.51	23.0	2.69	3.97	0.05	0.02	0.05	0.027	0.08	20.3	11.6	0.35	262	3.49	<0.01
ZZ59573		1.17	33.1	3.27	4.02	0.05	0.07	0.17	0.037	0.09	22.5	10.3	0.20	593	9.01	0.01
ZZ59574		0.99	27.8	3.77	3.95	0.07	0.05	0.12	0.032	0.09	25.3	13.6	1.45	1250	2.40	0.02
ZZ59575		1.79	20.5	5.24	5.92	<0.05	0.05	0.07	0.048	0.08	10.7	19.5	0.34	2290	2.75	0.01
ZZ59576		2.72	53.8	3.70	3.66	0.05	0.04	0.54	0.038	0.09	13.9	13.2	0.28	399	8.13	0.02
ZZ59577		3.64	27.5	2.94	4.40	<0.05	<0.02	0.29	0.027	0.07	13.6	11.4	0.31	255	5.64	0.01
ZZ59578		9.15	58.2	2.73	1.98	<0.05	0.02	0.12	0.039	0.10	7.0	2.3	0.05	332	7.05	<0.01
ZZ59579		3.49	35.9	2.22	2.06	0.05	0.07	0.48	0.030	0.07	14.8	4.2	0.10	258	3.82	0.02
ZZ59580		5.77	53.5	3.02	3.64	<0.05	0.05	0.38	0.042	0.10	7.6	9.7	0.23	527	5.45	0.01
ZZ59581		0.88	30.3	3.07	2.96	0.05	0.05	0.14	0.040	0.10	23.3	9.6	0.16	351	5.86	0.01
ZZ59582		0.75	28.9	1.90	2.35	0.05	<0.02	0.09	0.031	0.05	18.3	3.7	0.08	511	2.59	0.01
ZZ59583		0.69	22.8	3.03	3.15	0.05	0.05	0.07	0.033	0.08	20.8	8.2	0.13	348	2.41	0.01
ZZ59584		0.79	26.6	2.90	2.35	0.06	0.04	0.09	0.033	0.12	28.0	6.5	0.16	240	7.70	<0.01
ZZ59585		2.26	26.5	4.33	5.29	<0.05	0.02	0.07	0.047	0.12	11.9	18.4	0.35	843	2.15	0.01
ZZ59586		1.66	15.4	3.20	6.26	<0.05	<0.02	0.04	0.030	0.06	12.8	17.1	0.46	425	1.69	<0.01
ZZ59587		1.55	35.3	3.79	4.12	0.08	0.05	0.14	0.044	0.08	23.0	17.4	0.32	882	1.69	0.01
ZZ59588		1.81	42.3	5.07	4.34	0.06	0.06	0.06	0.042	0.09	9.7	26.3	0.39	1340	1.50	0.01
ZZ59589		1.52	29.4	3.55	4.43	0.06	0.02	0.09	0.033	0.09	15.7	14.9	0.26	416	2.12	0.01
ZZ59590		0.68	29.9	3.51	3.48	0.09	0.05	0.09	0.041	0.10	27.9	10.7	0.25	579	3.00	0.01
ZZ59591		0.78	23.3	5.55	2.98	0.10	0.02	0.18	0.052	0.08	29.8	13.8	0.12	1100	2.39	0.01
ZZ59592		1.44	20.3	3.57	4.70	0.05	0.04	0.07	0.037	0.07	13.1	12.7	0.25	729	1.71	0.01
ZZ59593		1.22	30.4	3.41	4.68	<0.05	0.05	0.11	0.036	0.08	13.6	15.6	0.34	567	1.52	0.01
ZZ59594		1.79	15.7	3.10	5.12	0.06	<0.02	0.12	0.031	0.07	20.1	12.5	0.33	594	1.82	0.02
ZZ59595		5.20	57.7	8.32	2.25	0.11	0.07	1.69	0.032	0.12	24.3	2.9	0.56	386	17.20	0.02
ZZ59596		8.88	47.5	3.90	4.93	0.06	0.03	0.22	0.039	0.12	9.8	10.6	0.16	432	5.29	0.02
ZZ59597		11.85	55.4	3.34	2.49	0.05	<0.02	0.22	0.036	0.13	8.4	4.1	0.07	337	5.77	0.01
ZZ59598		9.81	46.7	2.86	3.45	<0.05	<0.02	0.13	0.038	0.12	4.1	1.5	0.05	138	5.33	0.01
ZZ59599		5.45	50.4	3.35	3.89	<0.05	<0.02	0.09	0.028	0.08	6.9	1.5	0.04	88	6.94	0.01
ZZ59600		10.45	40.0	2.92	2.78	0.05	0.02	0.20	0.041	0.21	4.9	3.6	0.06	91	5.86	0.02
ZZ59601		2.69	184.5	3.09	2.04	0.25	0.02	0.61	0.039	0.11	9.7	2.9	0.05	48	73.3	0.02
ZZ59602		2.83	129.5	3.59	3.05	0.14	0.02	0.53	0.045	0.14	7.6	4.1	0.06	75	32.4	0.03
ZZ59603		6.67	47.9	2.81	2.67	0.05	0.02	1.37	0.043	0.11	4.8	3.9	0.10	127	6.28	0.02
ZZ59604		2.21	47.5	2.75	1.23	0.07	0.05	0.25	0.033	0.10	5.3	1.7	0.05	97	8.63	0.02
ZZ59605		1.97	46.9	2.58	1.43	0.07	0.05	0.24	0.034	0.09	6.2	2.5	0.05	112	8.01	0.02
ZZ59606		1.47	37.3	2.45	1.37	0.07	0.06	0.28	0.033	0.06	5.7	2.5	0.05	120	7.56	0.02
ZZ59607		1.33	34.6	2.52	1.75	<0.05	0.05	0.22	0.025	0.06	4.1	3.4	0.06	94	8.40	0.03
ZZ59608		2.83	21.2	2.54	4.73	<0.05	<0.02	0.05	0.026	0.06	8.1	4.8	0.11	128	4.41	0.01
ZZ59609		2.19	38.4	2.93	2.95	0.05	<0.02	0.13	0.031	0.08	5.7	4.5	0.11	124	6.10	0.02
ZZ59610		1.94	26.7	2.30	3.24	<0.05	<0.02	0.13	0.026	0.06	5.7	4.5	0.13	116	3.91	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59571		0.33	33.8	1270	14.4	5.7	<0.001	0.10	2.20	1.9	1.4	0.3	78.2	<0.01	0.02	0.6
ZZ59572		0.77	40.7	610	13.0	12.4	0.001	0.01	3.21	3.5	1.3	0.5	19.0	<0.01	0.02	2.8
ZZ59573		0.39	48.5	940	25.7	13.3	0.002	0.05	4.41	4.2	2.3	0.5	22.9	<0.01	0.05	1.9
ZZ59574		0.48	43.0	810	32.3	9.8	<0.001	0.03	1.17	6.2	1.1	0.5	36.8	<0.01	0.08	3.5
ZZ59575		0.60	30.2	1300	32.3	16.1	0.001	0.05	0.94	3.0	0.6	0.6	20.7	<0.01	0.03	1.5
ZZ59576		0.42	110.5	1080	79.1	10.9	0.002	0.03	3.05	5.3	2.4	0.5	64.2	<0.01	0.05	3.5
ZZ59577		0.44	90.5	1040	71.5	12.4	<0.001	0.04	2.43	1.2	2.1	0.5	38.4	<0.01	0.05	0.3
ZZ59578		0.22	52.4	1080	28.5	14.4	0.002	0.04	2.93	2.9	2.1	0.4	21.0	<0.01	0.06	1.2
ZZ59579		0.27	52.0	1180	29.6	11.3	0.001	0.10	2.19	2.8	2.2	0.3	63.7	<0.01	0.04	1.1
ZZ59580		0.31	36.0	1420	33.2	13.8	0.002	0.09	2.42	4.2	2.7	0.5	42.4	<0.01	0.08	1.1
ZZ59581		0.36	49.8	1340	18.7	10.2	0.001	0.05	2.15	4.0	1.8	0.4	35.0	<0.01	0.03	1.5
ZZ59582		0.36	41.7	1740	10.2	5.7	0.003	0.12	1.48	1.3	7.3	0.3	40.3	<0.01	0.03	0.2
ZZ59583		0.37	33.3	1340	13.9	10.2	<0.001	0.04	0.63	3.6	1.5	0.4	32.5	<0.01	0.04	1.7
ZZ59584		0.36	65.8	910	14.7	9.3	0.001	0.04	5.37	4.6	2.8	0.4	34.1	<0.01	0.03	2.0
ZZ59585		0.58	47.8	1210	21.6	15.6	<0.001	0.04	0.83	3.3	0.8	0.6	19.0	<0.01	0.02	1.1
ZZ59586		0.78	22.0	810	16.7	11.9	<0.001	0.03	0.78	1.5	0.4	0.6	11.9	<0.01	0.01	0.4
ZZ59587		0.43	43.6	1350	23.1	13.6	0.002	0.06	0.73	6.1	1.2	0.6	24.4	<0.01	0.08	2.9
ZZ59588		0.17	43.5	520	27.0	11.3	0.001	0.02	0.59	5.4	0.9	0.6	12.3	<0.01	0.06	3.9
ZZ59589		0.31	39.5	1010	18.0	12.7	0.001	0.04	0.78	2.8	0.9	0.6	14.4	<0.01	0.03	1.0
ZZ59590		0.23	56.8	1480	14.2	8.7	<0.001	0.03	1.37	6.7	1.7	0.5	39.4	<0.01	0.03	4.9
ZZ59591		0.14	70.2	880	9.6	8.3	0.001	0.05	0.38	14.2	0.9	0.6	15.4	<0.01	0.01	2.1
ZZ59592		0.45	27.4	1500	19.6	11.9	0.001	0.07	0.58	2.5	0.9	0.6	23.4	<0.01	0.06	0.9
ZZ59593		0.45	29.4	1200	20.0	9.5	<0.001	0.08	0.67	3.2	1.0	0.6	36.1	<0.01	0.05	1.1
ZZ59594		0.41	33.3	1460	17.6	13.0	<0.001	0.08	0.82	1.2	1.1	0.6	32.4	<0.01	0.03	0.3
ZZ59595		0.12	935	1340	495	8.7	0.001	0.07	14.90	5.6	5.1	0.6	99.3	<0.01	0.10	3.7
ZZ59596		0.36	62.6	1150	40.5	22.1	0.001	0.08	2.05	3.6	1.9	0.8	38.4	<0.01	0.09	1.4
ZZ59597		0.20	55.6	970	41.1	16.5	0.001	0.06	3.48	3.8	2.1	0.6	38.0	<0.01	0.07	2.9
ZZ59598		0.34	33.1	830	16.9	19.8	<0.001	0.10	2.62	1.8	1.9	0.7	24.2	<0.01	0.10	0.8
ZZ59599		0.42	49.6	560	18.4	13.5	<0.001	0.04	2.98	2.2	3.7	0.9	18.7	<0.01	0.09	1.5
ZZ59600		0.29	19.2	680	17.3	18.5	0.001	0.35	2.80	2.8	3.6	0.7	58.3	<0.01	0.09	3.7
ZZ59601		<0.05	331	4810	12.3	10.1	0.035	0.17	17.60	6.4	47.3	0.7	495	<0.01	0.18	1.2
ZZ59602		0.18	153.5	3310	16.3	11.9	0.008	0.34	7.48	3.5	26.8	0.8	252	<0.01	0.14	0.4
ZZ59603		0.15	64.4	1730	18.1	12.2	0.003	0.19	1.60	3.0	7.9	0.6	141.5	<0.01	0.15	0.4
ZZ59604		0.05	79.7	1790	12.4	7.1	0.007	0.15	2.02	5.6	8.9	0.5	201	<0.01	0.08	1.4
ZZ59605		0.11	63.1	1530	11.5	7.5	0.003	0.18	1.78	4.6	6.4	0.5	222	<0.01	0.10	0.5
ZZ59606		0.16	70.2	1450	10.5	5.8	0.003	0.14	1.89	4.7	7.1	0.4	248	<0.01	0.08	0.7
ZZ59607		0.15	62.4	980	11.1	6.7	0.003	0.15	1.27	4.7	3.8	0.4	156.0	<0.01	0.07	0.5
ZZ59608		0.25	29.2	630	13.9	10.3	<0.001	0.05	1.14	0.6	1.6	0.8	23.5	<0.01	0.07	<0.2
ZZ59609		0.21	50.5	1470	10.6	10.2	0.002	0.16	1.44	1.5	5.1	0.6	66.2	<0.01	0.14	0.2
ZZ59610		0.31	37.4	1530	10.7	8.9	0.001	0.10	1.10	1.3	3.1	0.6	52.2	<0.01	0.08	0.3



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59571		0.007	0.27	1.62	57	0.08	19.50	179	0.7
ZZ59572		0.019	0.31	1.92	94	0.16	14.85	170	0.7
ZZ59573		0.005	0.48	1.97	152	0.11	29.0	392	1.6
ZZ59574		0.009	0.35	1.12	57	0.14	24.6	216	1.3
ZZ59575		0.012	0.50	1.09	67	0.16	7.62	211	1.2
ZZ59576		0.008	1.46	2.12	153	0.18	27.7	613	1.4
ZZ59577		0.011	2.83	2.31	156	0.28	21.5	553	<0.5
ZZ59578		<0.005	0.68	1.74	51	0.05	13.65	308	0.9
ZZ59579		<0.005	0.98	2.33	87	0.09	27.3	297	2.0
ZZ59580		<0.005	0.78	2.63	69	0.19	12.10	224	1.2
ZZ59581		0.005	0.33	1.50	57	0.08	24.1	247	1.0
ZZ59582		0.007	0.13	2.18	54	0.16	18.55	154	<0.5
ZZ59583		<0.005	0.24	1.43	37	0.06	18.00	107	1.2
ZZ59584		0.008	0.46	1.61	81	0.27	27.5	420	1.2
ZZ59585		0.011	0.40	1.17	58	0.14	9.21	236	0.5
ZZ59586		0.024	0.20	0.87	58	0.26	4.89	91	<0.5
ZZ59587		0.008	0.23	2.04	35	0.13	20.3	128	1.6
ZZ59588		<0.005	0.22	0.82	37	0.05	9.31	139	1.8
ZZ59589		0.009	0.32	0.96	45	0.11	13.75	167	0.5
ZZ59590		0.007	0.35	1.47	55	0.07	27.7	255	1.5
ZZ59591		<0.005	0.18	0.90	48	<0.05	18.10	105	0.9
ZZ59592		0.009	0.38	1.64	55	0.14	10.35	105	0.8
ZZ59593		0.009	0.37	1.58	52	0.11	10.85	124	1.2
ZZ59594		0.016	0.61	1.72	66	0.16	15.55	206	<0.5
ZZ59595		<0.005	12.00	4.82	386	0.66	152.5	8170	2.9
ZZ59596		0.007	1.42	1.62	105	0.14	16.45	389	0.8
ZZ59597		0.005	0.88	2.02	60	0.09	10.65	336	<0.5
ZZ59598		0.009	0.53	0.90	72	0.13	4.57	205	<0.5
ZZ59599		0.015	0.27	0.99	79	0.12	8.75	219	<0.5
ZZ59600		0.007	0.65	1.61	72	0.08	4.57	128	0.9
ZZ59601		<0.005	1.51	16.25	448	0.48	79.6	1480	0.8
ZZ59602		0.005	1.19	11.70	229	0.29	46.5	758	0.9
ZZ59603		0.005	1.18	3.03	69	0.16	22.9	259	0.5
ZZ59604		<0.005	0.33	4.70	62	0.08	34.2	288	2.0
ZZ59605		<0.005	0.31	4.01	60	0.09	39.3	212	2.1
ZZ59606		<0.005	0.35	2.92	62	0.09	40.0	216	2.5
ZZ59607		<0.005	0.21	5.50	44	0.05	24.3	178	2.0
ZZ59608		0.015	0.36	0.91	60	0.18	3.69	117	<0.5
ZZ59609		0.013	0.23	2.43	74	0.15	18.55	177	<0.5
ZZ59610		0.009	0.20	3.45	65	0.11	9.16	123	<0.5



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59611		0.32	0.008	3.53	0.76	21.9	<0.2	10	790	0.66	0.25	1.18	0.80	10.90	5.2	38
ZZ59612		0.26	0.007	0.20	0.51	7.4	<0.2	<10	580	0.19	0.20	0.78	0.16	10.40	4.1	12
ZZ59613		0.22	0.006	0.48	0.40	7.9	<0.2	<10	800	0.34	0.11	2.34	0.34	3.41	2.9	10
ZZ59614		0.21	0.004	0.91	0.64	25.4	<0.2	<10	590	0.48	0.14	1.67	1.09	6.05	4.5	16
ZZ59615		0.24	0.001	0.16	1.55	37.8	<0.2	<10	180	0.48	0.30	0.13	0.27	17.50	6.9	28
ZZ59616		0.17	0.007	0.26	1.08	98.7	<0.2	<10	340	0.63	0.22	2.58	1.90	26.1	8.0	30
ZZ59617		0.16	0.003	0.21	0.76	127.5	<0.2	<10	270	0.54	0.15	2.20	1.33	22.2	7.4	32
ZZ59618		0.19	0.003	0.43	0.83	16.7	<0.2	<10	760	0.48	0.19	2.92	1.49	16.60	5.3	20
ZZ59619		0.15	0.013	0.26	0.62	23.7	<0.2	10	310	0.45	0.24	3.63	1.60	15.30	8.2	16
ZZ59620		0.31	0.002	0.70	0.92	66.2	<0.2	<10	1320	0.79	0.24	0.91	0.57	16.65	8.4	22
ZZ59621		0.28	0.003	0.49	1.23	31.2	<0.2	<10	840	0.56	0.25	0.38	0.19	17.65	6.4	27
ZZ59622		0.32	0.002	0.61	0.64	88.2	<0.2	<10	260	0.28	0.26	0.03	0.28	7.50	3.8	24
ZZ59623		0.31	0.003	0.63	0.40	41.0	<0.2	<10	130	0.19	0.23	0.03	0.15	6.14	3.4	18
ZZ59624		0.39	0.021	3.48	0.49	24.9	<0.2	10	1370	0.54	0.20	0.54	0.74	9.50	4.2	31
ZZ59625		0.34	0.008	2.39	0.58	15.7	<0.2	10	1430	0.59	0.19	0.51	0.56	6.99	2.9	31
ZZ59626		0.31	0.003	0.77	0.96	277	<0.2	<10	1070	0.81	0.22	0.21	1.40	16.45	7.6	23
ZZ59627		0.23	0.006	2.43	0.57	51.1	<0.2	10	1670	0.72	0.18	1.19	1.38	8.36	4.5	26
ZZ59628		0.19	0.002	0.27	0.89	51.3	<0.2	10	220	0.51	0.17	4.90	2.35	16.40	6.2	22
ZZ59629		0.20	0.003	0.31	0.69	48.4	<0.2	10	370	0.52	0.15	3.30	2.39	10.55	4.6	17
ZZ59630		0.20	0.002	0.49	0.87	57.6	<0.2	10	300	0.71	0.21	2.35	1.69	15.10	5.8	21
ZZ59631		0.27	0.002	0.70	0.50	47.9	<0.2	10	190	0.85	0.25	0.74	0.49	8.80	6.8	10
ZZ59632		0.22	0.002	0.34	1.17	191.5	<0.2	10	520	1.09	0.32	2.38	3.23	21.3	13.7	30
ZZ59633		0.35	0.003	0.14	0.51	344	<0.2	<10	240	0.65	0.26	3.11	0.94	14.50	10.5	24
ZZ59634		0.34	0.010	0.28	0.80	499	<0.2	10	700	1.10	0.33	1.19	1.68	17.45	25.1	31
ZZ59635		0.24	0.005	0.19	0.85	20.9	<0.2	<10	590	0.35	0.18	2.31	0.74	12.65	5.3	16
ZZ59636		0.26	0.003	0.53	0.82	35.0	<0.2	<10	280	0.61	0.31	0.61	0.69	18.85	6.1	22
ZZ59637		0.25	0.014	0.18	0.70	17.1	<0.2	<10	250	0.42	0.21	3.69	1.45	17.35	6.2	15
ZZ59638		0.29	0.004	0.42	0.62	54.6	<0.2	<10	240	0.53	0.26	0.95	1.23	19.90	8.2	20
ZZ59639		0.21	0.006	0.27	0.94	75.8	<0.2	10	590	0.66	0.19	2.22	0.75	12.70	6.3	21
ZZ59640		0.25	0.002	0.49	0.31	23.7	<0.2	<10	180	0.39	0.18	0.11	0.63	4.69	5.1	15
ZZ59641		0.28	0.002	1.02	0.64	46.1	<0.2	<10	490	0.59	0.22	0.17	0.82	10.60	5.9	20
ZZ59642		0.21	0.003	0.76	0.52	33.6	<0.2	<10	460	0.38	0.20	0.15	0.85	8.79	4.7	18
ZZ59643		0.25	0.003	0.32	0.92	34.0	<0.2	<10	330	0.53	0.20	0.13	0.47	15.00	5.1	22
ZZ59644		0.30	0.004	0.83	0.81	43.5	<0.2	10	550	0.71	0.19	0.81	1.07	19.05	6.5	22
ZZ59645		0.26	0.006	2.09	0.49	42.0	<0.2	10	850	0.56	0.20	0.93	1.36	7.69	4.9	24
ZZ59646		0.24	0.005	0.77	1.00	480	<0.2	<10	630	1.01	0.22	0.88	10.00	27.2	20.1	21
ZZ59647		0.23	0.001	0.27	1.13	73.5	<0.2	<10	200	0.73	0.25	0.20	1.36	23.0	10.1	19
ZZ59648		0.32	0.003	0.70	1.31	194.0	<0.2	<10	280	1.07	0.23	0.63	2.21	43.2	14.3	26
ZZ59649		0.22	0.012	5.79	0.76	266	<0.2	10	200	0.75	0.16	2.30	5.94	26.6	9.6	19
ZZ59650		0.10	0.004	0.13	0.52	9.1	<0.2	<10	140	0.38	0.11	4.74	4.04	17.75	4.0	5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Plus Appendix Pages  
 Finalized Date: 22- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59611		2.35	47.6	3.45	2.25	0.06	0.03	0.26	0.044	0.20	8.2	4.5	0.09	147	3.55	0.04
ZZ59612		2.49	14.9	1.19	2.68	<0.05	0.04	0.07	0.014	0.05	5.1	1.1	0.04	352	1.89	0.01
ZZ59613		1.52	26.2	0.97	1.21	<0.05	0.04	0.09	0.018	0.04	2.0	1.0	0.05	86	2.02	0.02
ZZ59614		1.13	48.0	1.58	1.90	<0.05	0.06	0.20	0.021	0.06	4.5	3.9	0.10	225	2.04	0.01
ZZ59615		2.63	17.4	2.99	5.90	<0.05	<0.02	0.07	0.030	0.06	8.8	13.2	0.26	261	1.97	0.01
ZZ59616		0.86	19.3	2.37	2.93	0.12	0.03	0.12	0.034	0.05	35.0	7.4	0.18	778	2.14	0.02
ZZ59617		0.88	15.6	2.10	2.32	0.11	0.02	0.14	0.028	0.05	28.7	6.5	0.11	478	1.59	0.01
ZZ59618		1.14	17.1	1.84	2.33	0.07	0.03	0.12	0.031	0.03	15.2	4.9	0.13	361	1.10	<0.01
ZZ59619		0.43	16.8	1.40	1.76	0.08	0.02	0.13	0.026	0.03	19.0	3.2	0.10	677	1.74	<0.01
ZZ59620		2.02	27.5	2.53	2.90	0.05	0.04	0.15	0.034	0.05	11.0	6.6	0.18	302	2.24	<0.01
ZZ59621		4.50	23.1	2.56	4.67	<0.05	0.03	0.07	0.030	0.06	7.8	9.4	0.26	265	2.42	<0.01
ZZ59622		3.38	33.0	2.37	3.81	<0.05	<0.02	0.07	0.029	0.07	3.7	1.1	0.03	47	5.12	<0.01
ZZ59623		3.30	36.9	1.80	2.48	<0.05	<0.02	0.09	0.027	0.06	2.8	0.9	0.02	57	3.38	<0.01
ZZ59624		4.10	70.2	2.94	1.42	0.06	0.02	0.26	0.042	0.12	6.0	2.0	0.03	101	4.93	0.01
ZZ59625		1.47	38.2	1.83	1.98	0.05	0.02	0.22	0.027	0.08	4.7	2.5	0.05	83	3.77	<0.01
ZZ59626		1.87	32.5	3.17	3.45	<0.05	0.03	0.13	0.036	0.10	6.6	8.2	0.11	374	6.39	<0.01
ZZ59627		0.50	45.1	2.46	1.84	0.06	0.10	0.23	0.032	0.09	5.3	3.6	0.07	138	7.56	<0.01
ZZ59628		0.82	19.3	1.55	2.40	0.07	0.02	0.11	0.021	0.06	27.5	5.2	0.18	453	2.18	<0.01
ZZ59629		1.08	20.6	1.29	1.95	0.07	0.03	0.15	0.022	0.05	17.1	3.2	0.10	354	2.36	<0.01
ZZ59630		0.82	26.2	1.85	2.60	0.06	0.04	0.12	0.032	0.08	17.5	5.5	0.14	269	3.71	<0.01
ZZ59631		2.03	19.8	1.70	1.30	<0.05	0.05	0.15	0.040	0.12	3.4	2.4	0.06	84	0.85	<0.01
ZZ59632		0.71	27.4	2.91	3.17	0.11	0.05	0.12	0.048	0.06	26.8	6.9	0.19	659	2.81	<0.01
ZZ59633		1.29	28.0	2.09	2.08	0.07	0.04	0.44	0.039	0.09	15.6	4.4	0.07	215	2.74	<0.01
ZZ59634		0.55	56.7	3.36	2.81	0.09	0.10	0.28	0.048	0.10	21.0	6.6	0.11	618	5.22	<0.01
ZZ59635		0.77	14.2	1.59	2.86	<0.05	0.03	0.12	0.025	0.03	9.9	4.3	0.12	479	1.19	0.01
ZZ59636		2.21	30.3	2.72	2.82	0.05	0.04	0.13	0.044	0.07	11.6	6.4	0.15	221	1.63	<0.01
ZZ59637		0.62	12.6	1.36	2.02	0.06	0.02	0.16	0.022	0.02	18.1	2.4	0.06	1040	2.18	<0.01
ZZ59638		1.49	30.4	2.43	2.20	0.08	0.04	0.17	0.040	0.06	18.4	5.1	0.12	390	2.55	<0.01
ZZ59639		1.80	24.3	1.99	2.81	0.05	0.06	0.25	0.035	0.07	14.0	6.3	0.12	343	2.24	0.01
ZZ59640		1.41	36.5	2.24	1.44	<0.05	<0.02	0.06	0.029	0.10	2.6	0.8	0.02	252	4.51	<0.01
ZZ59641		1.52	29.3	2.51	2.85	<0.05	<0.02	0.07	0.030	0.10	5.7	2.8	0.06	425	4.27	<0.01
ZZ59642		1.03	22.4	2.24	2.28	<0.05	<0.02	0.05	0.029	0.10	4.8	2.8	0.06	255	3.88	<0.01
ZZ59643		1.27	20.8	2.22	3.29	<0.05	<0.02	0.07	0.029	0.06	7.4	7.3	0.16	193	2.96	<0.01
ZZ59644		1.10	31.3	2.29	2.57	0.06	0.06	0.15	0.030	0.07	10.9	8.9	0.20	197	3.15	<0.01
ZZ59645		1.21	52.0	2.87	1.56	0.06	0.04	0.21	0.037	0.11	4.7	2.9	0.07	156	5.68	<0.01
ZZ59646		1.93	38.1	3.37	3.40	0.07	0.08	0.47	0.034	0.09	12.7	11.1	0.33	640	5.35	<0.01
ZZ59647		1.17	23.5	2.98	4.68	<0.05	0.02	0.08	0.040	0.09	10.0	10.8	0.19	715	4.04	<0.01
ZZ59648		0.98	32.8	3.88	4.40	0.09	0.06	0.36	0.053	0.09	20.2	14.8	0.32	637	4.71	<0.01
ZZ59649		0.64	28.5	2.51	2.44	0.06	0.05	4.41	0.034	0.10	14.6	6.6	0.36	290	4.58	<0.01
ZZ59650		0.23	11.4	0.91	1.33	<0.05	0.05	0.11	0.015	0.04	9.4	1.6	0.06	252	1.35	<0.01

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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ59611		0.24	53.5	1530	13.3	16.9	0.001	0.55	1.21	4.9	4.1	0.6	124.5	<0.01	0.12	1.3
ZZ59612		0.53	13.7	1640	7.0	7.8	0.001	0.15	0.65	1.3	0.9	0.8	40.4	0.01	0.03	0.4
ZZ59613		0.18	30.5	1100	4.8	5.0	0.001	0.22	0.86	0.9	2.3	0.3	82.3	<0.01	0.05	0.2
ZZ59614		0.19	43.5	1240	8.5	7.3	0.002	0.17	0.93	2.6	3.1	0.4	65.6	<0.01	0.06	0.4
ZZ59615		0.48	30.3	710	13.8	12.6	<0.001	0.05	0.89	0.8	0.9	0.8	22.0	<0.01	0.06	<0.2
ZZ59616		0.31	27.3	1910	14.4	6.6	<0.001	0.16	0.76	2.1	3.3	0.4	29.5	<0.01	0.11	0.4
ZZ59617		0.28	27.9	1500	10.2	6.4	0.001	0.14	0.70	1.6	6.3	0.4	24.6	<0.01	0.06	0.3
ZZ59618		0.34	20.0	1570	10.3	4.6	0.001	0.19	0.68	1.0	3.4	0.4	53.2	<0.01	0.09	0.2
ZZ59619		0.26	20.3	1510	11.3	3.6	0.002	0.22	0.53	0.6	2.4	0.3	41.6	<0.01	0.20	<0.2
ZZ59620		0.39	48.8	850	13.9	7.4	<0.001	0.07	1.12	3.1	3.7	0.4	40.5	<0.01	0.10	0.8
ZZ59621		0.59	29.0	1090	13.8	11.3	0.001	0.06	0.93	2.0	0.9	0.6	30.2	<0.01	0.06	0.8
ZZ59622		0.29	42.0	1080	15.4	9.4	0.002	0.11	1.20	1.1	4.9	0.6	38.8	<0.01	0.10	0.3
ZZ59623		0.21	36.5	730	12.2	10.4	0.001	0.03	1.00	1.4	3.8	0.5	7.6	<0.01	0.07	0.3
ZZ59624		0.06	62.1	1990	8.7	13.4	0.003	0.33	1.22	4.5	8.1	0.5	99.4	<0.01	0.13	1.4
ZZ59625		0.11	38.7	1470	7.8	9.6	0.003	0.18	0.83	2.7	5.3	0.5	70.1	<0.01	0.16	0.7
ZZ59626		0.21	46.7	1710	23.5	11.0	0.002	0.11	1.79	1.7	4.6	0.6	70.6	<0.01	0.09	0.5
ZZ59627		0.13	66.6	1370	11.1	5.3	0.002	0.18	1.57	3.7	7.6	0.4	181.0	<0.01	0.08	0.8
ZZ59628		0.28	31.4	1890	9.7	6.5	<0.001	0.19	0.72	0.8	2.4	0.4	53.4	<0.01	0.03	<0.2
ZZ59629		0.27	33.7	1930	8.3	7.5	<0.001	0.21	0.59	1.1	2.7	0.3	51.9	<0.01	0.05	0.2
ZZ59630		0.31	42.3	1530	11.9	8.2	<0.001	0.15	0.86	1.5	3.1	0.4	47.0	<0.01	0.06	0.3
ZZ59631		0.11	33.2	470	14.5	9.0	0.002	0.07	1.03	4.2	1.9	0.4	15.5	<0.01	0.11	1.8
ZZ59632		0.28	54.8	1780	19.1	6.8	0.001	0.13	1.07	1.6	4.1	0.5	38.4	0.01	0.30	0.4
ZZ59633		0.12	46.1	1210	19.8	6.7	0.001	0.01	1.35	3.2	2.8	0.4	50.6	<0.01	0.26	3.4
ZZ59634		0.17	61.9	1410	22.9	6.6	<0.001	0.06	1.48	2.6	4.3	0.5	42.1	<0.01	0.34	0.9
ZZ59635		0.41	12.6	1600	9.9	4.2	0.001	0.23	0.48	1.0	1.0	0.4	43.5	<0.01	0.06	0.2
ZZ59636		0.41	41.4	1010	16.4	9.2	0.001	0.07	1.07	3.4	3.4	0.5	22.7	<0.01	0.11	0.9
ZZ59637		0.27	13.2	1730	11.2	2.9	<0.001	0.23	0.50	0.6	2.2	0.3	34.1	<0.01	0.11	<0.2
ZZ59638		0.28	43.5	780	15.8	6.7	<0.001	0.06	1.19	3.7	3.4	0.4	25.9	<0.01	0.19	1.0
ZZ59639		0.34	36.8	1360	13.4	8.4	<0.001	0.16	1.14	2.0	2.5	0.4	32.0	<0.01	0.11	0.5
ZZ59640		0.06	48.9	1330	11.6	9.0	0.001	0.09	1.43	0.4	3.8	0.4	27.7	<0.01	0.13	<0.2
ZZ59641		0.07	41.1	1650	12.9	12.5	0.001	0.16	1.13	0.2	3.0	0.5	43.6	<0.01	0.10	<0.2
ZZ59642		0.07	32.7	1530	12.2	10.5	0.002	0.14	1.07	0.2	2.6	0.4	38.3	<0.01	0.12	<0.2
ZZ59643		0.24	29.9	1100	12.9	9.7	0.001	0.04	0.84	1.1	1.4	0.5	26.4	<0.01	0.09	0.3
ZZ59644		0.31	44.2	1270	17.3	7.8	0.001	0.06	1.18	3.3	3.5	0.4	54.7	<0.01	0.12	1.4
ZZ59645		0.13	61.2	2180	11.6	9.2	<0.001	0.23	1.49	3.7	7.6	0.4	104.0	<0.01	0.16	1.0
ZZ59646		0.30	85.4	1210	114.5	11.4	0.004	0.10	2.28	3.9	3.6	0.5	47.9	<0.01	0.08	1.7
ZZ59647		0.35	23.9	1670	39.8	14.4	0.001	0.10	1.40	1.0	0.6	0.5	13.7	<0.01	0.04	0.3
ZZ59648		0.41	49.0	1110	92.8	9.2	0.001	0.04	2.30	5.9	1.9	0.6	32.6	<0.01	0.07	2.5
ZZ59649		0.25	49.5	1310	1030	10.1	0.002	0.18	5.11	2.3	2.3	0.5	86.4	<0.01	0.06	0.7
ZZ59650		0.29	11.7	1390	8.2	3.7	<0.001	0.25	0.74	0.5	0.4	0.2	100.5	<0.01	0.02	0.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59611		0.006	0.27	2.43	55	0.07	25.6	195	1.4
ZZ59612		0.018	0.15	0.67	38	0.19	2.30	52	0.9
ZZ59613		0.006	0.12	1.46	20	<0.05	6.79	90	1.5
ZZ59614		0.005	0.25	6.45	37	0.06	27.9	117	2.0
ZZ59615		0.023	0.34	0.88	68	0.22	5.42	109	<0.5
ZZ59616		0.010	0.31	3.71	48	0.09	74.1	145	0.8
ZZ59617		0.009	0.26	2.64	39	0.10	62.4	134	0.5
ZZ59618		0.008	0.15	2.12	35	0.09	28.3	141	0.8
ZZ59619		0.008	0.14	1.35	30	0.06	35.6	161	0.9
ZZ59620		0.009	0.78	2.13	45	0.18	22.9	151	1.2
ZZ59621		0.016	0.38	1.20	57	0.21	6.81	101	0.8
ZZ59622		0.005	0.44	0.91	75	0.12	3.17	181	<0.5
ZZ59623		0.006	0.29	1.56	51	0.08	3.61	124	<0.5
ZZ59624		<0.005	0.21	3.98	54	0.05	22.7	203	1.0
ZZ59625		<0.005	0.13	2.77	51	0.07	13.50	135	0.8
ZZ59626		<0.005	0.59	1.95	76	0.14	11.25	238	0.7
ZZ59627		<0.005	0.21	3.09	56	0.09	28.9	223	3.0
ZZ59628		0.007	0.17	1.44	37	0.08	47.7	208	0.5
ZZ59629		0.006	0.17	2.67	28	0.07	29.7	182	0.9
ZZ59630		0.006	0.18	1.69	33	0.09	27.3	161	1.1
ZZ59631		<0.005	0.22	0.87	18	<0.05	7.73	105	1.5
ZZ59632		0.006	0.39	0.86	53	0.14	56.0	286	1.1
ZZ59633		<0.005	0.76	2.12	55	0.11	32.3	264	1.7
ZZ59634		<0.005	0.95	2.02	63	0.16	49.4	345	2.3
ZZ59635		0.015	0.14	1.46	32	0.09	13.70	75	1.2
ZZ59636		0.012	0.34	1.72	44	0.13	21.9	160	1.1
ZZ59637		0.009	0.10	1.97	30	0.06	30.2	93	0.5
ZZ59638		0.009	0.40	1.47	40	0.16	34.0	169	1.1
ZZ59639		0.005	0.46	2.44	47	0.09	31.7	137	1.7
ZZ59640		<0.005	0.23	1.77	39	0.06	3.95	227	<0.5
ZZ59641		<0.005	0.27	1.72	52	0.11	8.09	179	<0.5
ZZ59642		<0.005	0.23	1.42	48	0.16	5.99	158	<0.5
ZZ59643		0.010	0.19	1.36	50	0.36	7.05	122	<0.5
ZZ59644		0.009	0.23	1.71	45	0.13	19.20	194	1.4
ZZ59645		<0.005	0.25	5.09	52	0.07	20.6	237	1.7
ZZ59646		0.006	1.22	1.98	97	0.18	21.5	784	2.0
ZZ59647		0.008	0.49	1.18	71	0.15	6.19	171	<0.5
ZZ59648		0.007	0.59	1.45	95	0.16	19.55	287	2.0
ZZ59649		0.005	2.15	2.04	113	0.11	15.85	808	1.4
ZZ59650		0.008	0.12	1.12	22	<0.05	9.91	157	1.6



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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59651		0.25	0.002	0.74	0.49	37.2	<0.2	<10	120	0.91	0.25	5.65	3.99	42.3	10.9	9
ZZ59652		0.34	0.002	0.90	0.47	74.5	<0.2	<10	140	0.85	0.22	9.42	4.86	40.9	11.8	9
ZZ59653		0.30	0.003	0.79	0.55	38.0	<0.2	<10	190	0.73	0.25	6.90	3.95	40.8	11.9	11
ZZ59654		0.25	0.002	0.41	1.29	20.2	<0.2	<10	310	1.09	0.24	1.67	2.05	43.4	9.3	17
ZZ59655		0.27	0.001	0.04	1.16	35.1	<0.2	<10	160	0.67	0.22	0.18	0.27	19.30	9.6	24
ZZ59656		0.26	0.003	0.07	1.41	23.9	<0.2	<10	130	0.66	0.29	0.37	0.20	15.10	9.1	20
ZZ59657		0.20	0.002	0.35	1.39	19.8	<0.2	<10	230	1.05	0.28	0.68	0.47	41.6	9.9	18
ZZ59658		0.27	0.002	0.25	1.70	29.3	<0.2	<10	290	1.21	0.26	0.70	1.64	50.9	10.6	22
ZZ59659		0.31	0.002	0.24	1.48	17.6	<0.2	<10	350	0.79	0.26	0.37	1.26	37.9	8.5	22
ZZ59660		0.23	0.001	0.06	1.52	11.6	<0.2	<10	180	0.65	0.17	0.10	0.26	24.5	9.7	37
ZZ59661		0.24	0.002	0.06	1.25	18.5	<0.2	<10	100	0.54	0.23	0.05	0.19	11.85	8.6	21
ZZ59662		0.26	0.001	0.05	1.44	14.6	<0.2	<10	230	0.72	0.22	0.29	0.23	33.8	8.9	19
ZZ59663		0.24	0.002	0.04	1.62	38.7	<0.2	<10	330	0.67	0.32	0.59	0.39	16.85	9.1	24
ZZ59664		0.33	0.001	0.08	1.46	22.6	<0.2	<10	270	0.74	0.21	0.67	0.50	20.3	10.0	34
ZZ59665		0.30	0.001	0.04	1.95	19.0	<0.2	<10	320	1.05	0.16	0.47	0.14	55.8	14.9	58
ZZ59666		0.35	0.003	0.14	0.64	47.7	<0.2	<10	300	0.76	0.26	0.07	0.56	40.5	9.1	10
ZZ59667		0.27	0.002	0.05	1.66	20.4	<0.2	<10	170	0.63	0.20	0.07	0.16	21.9	8.8	28
ZZ59668		0.28	0.002	0.04	1.16	18.4	<0.2	<10	110	0.51	0.32	0.06	0.19	16.95	7.3	18
ZZ59669		0.31	0.003	0.51	0.40	27.0	<0.2	<10	220	0.87	0.30	5.31	3.12	14.25	10.8	7
ZZ59670		0.39	0.002	0.86	0.88	43.3	<0.2	<10	380	0.78	0.20	6.86	5.02	20.1	6.8	14
ZZ59671		0.29	0.002	0.18	1.41	34.6	<0.2	<10	150	0.70	0.33	0.07	0.81	25.0	11.5	22
ZZ59672		0.32	0.004	0.25	1.22	25.2	<0.2	<10	160	0.77	0.28	0.13	0.46	28.1	10.6	22
ZZ59673		0.30	0.002	0.73	0.87	41.6	<0.2	<10	290	0.91	0.24	5.69	3.18	22.7	7.2	14
ZZ59674		0.35	0.002	1.04	0.42	45	<0.2	<10	520	0.45	0.13	11.45	3.01	13.40	4.9	8
ZZ59675		0.32	0.004	0.08	1.53	22.3	<0.2	<10	210	1.14	0.35	0.12	0.30	41.6	11.4	25
ZZ59676		0.26	0.001	0.05	0.91	16.1	<0.2	<10	100	0.34	0.37	0.10	0.33	15.10	8.9	16
ZZ59677		0.32	0.002	0.12	1.07	14.4	<0.2	<10	160	0.54	0.34	0.23	0.14	14.65	8.9	18
ZZ59678		0.30	0.002	0.05	1.27	13.0	<0.2	<10	120	0.58	0.39	0.06	0.16	17.05	9.1	22
ZZ59679		0.34	0.003	0.13	1.42	10.8	<0.2	<10	150	0.52	0.30	0.25	0.15	27.3	7.4	22
ZZ59680		0.28	0.002	0.09	0.54	13.3	<0.2	<10	110	0.60	0.33	0.37	0.08	15.60	9.6	13
ZZ59681		0.29	0.002	0.07	1.32	9.4	<0.2	<10	200	0.78	0.36	0.30	0.08	23.4	7.5	20
ZZ59682		0.30	0.003	0.21	0.99	13.6	<0.2	<10	180	1.39	0.30	0.47	0.21	41.7	12.2	19
ZZ59683		0.32	0.002	0.14	1.28	14.0	<0.2	<10	180	1.09	0.31	0.33	0.15	39.0	13.1	22
ZZ59684		0.35	0.002	0.04	1.53	10.6	<0.2	<10	120	0.62	0.41	0.12	0.11	22.0	11.8	23
ZZ59685		0.32	0.002	0.06	1.32	11.6	<0.2	<10	140	0.85	0.37	0.20	0.11	38.7	10.4	20
ZZ59686		0.30	0.002	0.04	1.05	12.2	<0.2	<10	130	0.48	0.36	0.06	0.18	16.15	7.6	15
ZZ59687		0.30	0.001	0.11	1.10	13.1	<0.2	<10	190	0.70	0.34	0.12	0.25	20.2	8.5	17
ZZ59688		0.29	0.001	0.13	0.82	36.8	<0.2	<10	310	0.80	0.38	0.55	1.27	16.10	9.2	12
ZZ59689		0.32	0.002	0.26	1.62	24.0	<0.2	<10	240	1.14	0.28	0.13	0.35	36.7	12.0	25
ZZ59690		0.29	0.004	0.98	1.65	75.8	<0.2	<10	290	1.46	0.24	2.34	3.52	40.5	12.8	25



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59651		0.15	22.3	2.77	1.54	0.08	0.05	0.09	0.042	0.09	23.2	3.2	1.47	271	5.75	<0.01
ZZ59652		0.20	24.9	2.52	1.60	0.07	0.03	0.07	0.035	0.12	20.7	3.2	2.56	284	7.34	0.01
ZZ59653		0.11	23.5	2.76	1.56	0.09	0.06	0.06	0.035	0.13	22.6	3.7	1.87	297	6.50	<0.01
ZZ59654		0.35	19.6	2.54	3.10	0.08	0.06	0.08	0.039	0.07	21.5	6.4	0.15	869	1.53	<0.01
ZZ59655		0.99	19.4	3.87	3.92	0.08	0.02	0.02	0.046	0.09	7.6	4.8	0.11	359	1.71	<0.01
ZZ59656		1.46	22.3	3.39	5.38	0.07	<0.02	0.02	0.038	0.08	6.4	8.6	0.17	431	2.36	<0.01
ZZ59657		0.92	27.0	3.29	3.95	0.09	0.06	0.03	0.043	0.10	18.5	9.0	0.15	428	2.38	<0.01
ZZ59658		0.96	23.8	4.09	4.00	0.10	0.05	0.06	0.038	0.07	17.6	10.3	0.23	705	2.60	<0.01
ZZ59659		0.82	18.9	3.14	4.25	0.10	0.02	0.02	0.033	0.06	17.8	9.9	0.25	415	2.10	<0.01
ZZ59660		0.88	12.9	4.06	3.94	0.08	0.04	0.02	0.046	0.06	9.2	8.9	0.15	436	1.65	<0.01
ZZ59661		1.00	23.7	3.46	3.80	0.07	0.03	0.04	0.033	0.09	5.1	7.8	0.15	188	1.55	<0.01
ZZ59662		1.43	14.9	3.97	4.15	0.10	0.07	0.01	0.041	0.07	13.0	7.8	0.15	805	1.10	<0.01
ZZ59663		1.30	21.8	3.29	5.72	0.07	0.03	<0.01	0.042	0.07	8.1	9.2	0.18	528	2.89	<0.01
ZZ59664		0.93	17.9	4.06	4.69	0.08	0.04	0.01	0.048	0.06	8.1	8.6	0.19	438	2.24	<0.01
ZZ59665		0.90	16.6	5.29	5.68	0.11	0.07	<0.01	0.059	0.09	20.2	16.4	0.34	658	1.06	<0.01
ZZ59666		0.72	79.1	7.32	1.30	0.11	0.02	0.02	0.056	0.07	27.0	0.7	0.02	306	8.74	<0.01
ZZ59667		1.40	16.8	4.06	4.51	0.08	0.05	0.02	0.040	0.07	9.3	7.5	0.13	326	3.43	<0.01
ZZ59668		1.12	28.7	3.20	4.44	0.07	<0.02	0.03	0.038	0.05	8.7	3.3	0.09	156	3.39	<0.01
ZZ59669		1.51	27.2	2.77	1.35	0.07	0.07	0.48	0.030	0.12	6.4	3.3	2.81	919	0.86	<0.01
ZZ59670		0.64	17.2	3.54	2.43	0.08	0.05	0.45	0.028	0.06	11.2	6.2	4.12	1880	1.89	0.01
ZZ59671		0.98	29.7	3.83	4.09	0.08	0.04	0.08	0.040	0.06	8.7	15.2	0.25	617	1.81	<0.01
ZZ59672		1.08	29.8	3.29	3.58	0.10	0.02	0.11	0.033	0.05	12.3	10.3	0.29	533	0.98	<0.01
ZZ59673		0.54	16.2	3.58	2.45	0.09	0.09	0.27	0.031	0.06	12.2	6.1	3.16	2350	0.89	0.01
ZZ59674		0.31	11.1	2.40	1.31	0.08	0.05	0.63	0.018	0.05	7.3	3.0	7.03	1490	0.91	0.02
ZZ59675		1.15	21.9	4.07	4.30	0.08	0.06	0.04	0.037	0.06	13.1	14.1	0.34	956	1.29	<0.01
ZZ59676		1.06	30.9	3.50	5.10	0.07	<0.02	0.01	0.032	0.09	6.9	5.9	0.13	340	1.29	<0.01
ZZ59677		0.87	24.5	3.38	3.81	0.08	<0.02	0.02	0.040	0.07	5.7	11.9	0.19	376	0.97	<0.01
ZZ59678		1.04	27.9	3.77	4.64	0.07	<0.02	0.01	0.039	0.08	6.6	11.4	0.22	588	1.31	<0.01
ZZ59679		1.06	17.8	2.62	4.82	0.08	<0.02	0.04	0.025	0.04	12.3	10.8	0.27	288	1.20	<0.01
ZZ59680		0.56	22.7	3.50	1.42	0.07	0.04	0.05	0.037	0.05	6.0	3.6	0.09	492	0.56	<0.01
ZZ59681		0.85	16.3	3.29	3.93	0.06	0.06	0.01	0.042	0.06	8.6	11.5	0.23	439	0.72	<0.01
ZZ59682		0.98	24.0	6.95	2.17	0.11	0.06	0.05	0.059	0.06	17.9	7.1	0.18	882	0.73	<0.01
ZZ59683		1.14	28.0	4.13	3.39	0.08	0.04	0.03	0.045	0.07	13.8	9.7	0.26	561	0.98	<0.01
ZZ59684		2.89	22.0	3.73	4.37	0.07	0.03	0.02	0.043	0.09	7.1	20.3	0.30	438	1.02	<0.01
ZZ59685		0.97	22.8	3.61	3.74	0.09	0.02	0.03	0.040	0.06	10.5	11.7	0.21	348	0.90	<0.01
ZZ59686		0.90	23.1	3.49	3.77	0.07	0.02	0.01	0.029	0.06	6.1	9.7	0.14	305	0.86	<0.01
ZZ59687		1.00	20.2	3.17	3.67	0.08	0.03	0.02	0.037	0.07	7.6	8.8	0.15	382	0.91	<0.01
ZZ59688		0.82	20.9	3.47	2.43	0.06	0.09	0.04	0.043	0.09	6.2	5.3	0.17	838	0.79	<0.01
ZZ59689		1.34	20.6	3.66	4.64	0.05	0.05	0.21	0.038	0.06	12.8	14.0	0.37	703	1.22	0.01
ZZ59690		1.01	24.8	5.66	3.78	0.09	0.07	0.69	0.039	0.05	21.0	10.5	1.40	3900	1.45	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59651		0.10	47.1	570	17.6	5.5	0.001	0.06	2.94	3.3	1.6	0.3	111.5	<0.01	0.02	1.8
ZZ59652		0.10	60.6	600	16.7	5.4	<0.001	0.03	3.55	3.5	2.5	0.3	184.0	<0.01	0.02	2.0
ZZ59653		0.16	53.6	900	19.3	4.7	<0.001	0.07	2.91	3.1	2.1	0.3	109.0	<0.01	<0.01	1.6
ZZ59654		0.39	35.8	1790	14.2	11.0	<0.001	0.13	0.70	2.2	1.1	0.4	41.5	<0.01	0.01	0.9
ZZ59655		0.35	31.9	1530	13.5	12.3	<0.001	0.05	0.46	2.0	0.8	0.5	9.1	<0.01	<0.01	0.7
ZZ59656		0.48	22.4	1350	23.3	13.7	0.002	0.06	0.76	0.9	0.9	0.7	13.4	<0.01	0.02	0.3
ZZ59657		0.44	33.3	1220	21.2	12.9	0.001	0.05	1.07	3.2	1.5	0.6	18.7	<0.01	0.03	1.7
ZZ59658		0.47	32.2	760	27.3	12.1	<0.001	0.05	0.93	4.3	0.6	0.5	51.9	<0.01	0.01	1.8
ZZ59659		0.42	28.5	1230	17.0	12.1	<0.001	0.04	0.98	2.1	1.4	0.6	16.0	<0.01	0.03	0.8
ZZ59660		0.50	27.5	1520	10.2	9.0	<0.001	0.06	0.40	2.2	0.7	0.6	14.7	<0.01	<0.01	1.0
ZZ59661		0.45	25.6	1050	15.9	12.8	<0.001	0.10	0.48	2.2	0.9	0.6	12.9	<0.01	<0.01	1.0
ZZ59662		0.44	17.7	1120	14.6	14.2	0.001	0.03	0.32	3.6	0.4	0.6	16.8	<0.01	0.01	1.7
ZZ59663		0.49	33.8	1580	22.9	12.1	<0.001	0.06	1.12	2.3	0.7	0.7	20.1	<0.01	0.04	0.8
ZZ59664		0.42	30.9	1400	15.8	9.3	<0.001	0.05	0.42	2.5	0.6	0.7	32.6	<0.01	0.04	0.9
ZZ59665		0.41	45.8	1240	14.2	10.5	<0.001	0.03	0.26	6.8	0.5	0.8	21.0	<0.01	<0.01	2.9
ZZ59666		0.11	119.5	2480	13.4	5.9	0.001	0.05	3.36	3.4	6.9	0.5	43.1	<0.01	0.10	0.9
ZZ59667		0.45	34.7	1600	14.1	11.2	<0.001	0.06	0.49	2.0	0.5	0.7	17.8	<0.01	<0.01	1.0
ZZ59668		0.24	40.3	1520	17.2	8.8	<0.001	0.05	1.39	0.3	1.4	0.6	11.8	<0.01	0.07	<0.2
ZZ59669		0.20	22.9	520	88.4	6.9	<0.001	0.06	0.55	4.1	0.9	0.4	37.7	<0.01	<0.01	1.8
ZZ59670		0.31	21.2	1190	153.5	9.8	0.001	0.06	1.36	2.9	1.7	0.4	41.9	<0.01	0.03	1.0
ZZ59671		0.58	29.4	460	72.4	10.9	<0.001	0.02	0.76	3.3	0.7	0.6	11.5	<0.01	0.02	2.6
ZZ59672		0.48	27.2	430	61.7	10.1	<0.001	0.02	0.69	3.8	0.7	0.5	15.8	<0.01	0.02	1.8
ZZ59673		0.31	18.3	1420	99.2	9.4	<0.001	0.08	0.86	3.4	1.2	0.4	34.4	<0.01	0.03	1.3
ZZ59674		0.22	14.0	1040	167.5	4.1	0.001	0.07	0.99	2.6	0.7	0.3	64.5	<0.01	<0.01	0.8
ZZ59675		0.67	27.9	800	47.1	12.4	0.001	0.03	0.67	3.9	0.4	0.6	13.2	<0.01	0.05	2.2
ZZ59676		0.64	18.7	390	21.6	16.0	<0.001	0.02	0.42	2.9	0.2	0.6	13.8	<0.01	0.04	1.6
ZZ59677		0.39	20.4	650	21.4	11.6	<0.001	0.03	0.37	2.1	0.4	0.5	21.8	<0.01	<0.01	0.9
ZZ59678		0.49	21.4	970	21.7	16.9	<0.001	0.04	0.50	1.2	0.6	0.6	10.9	<0.01	0.03	0.4
ZZ59679		0.55	20.2	770	16.4	8.1	<0.001	0.02	0.47	1.6	0.8	0.6	21.2	<0.01	<0.01	0.5
ZZ59680		0.21	22.4	500	27.4	6.9	0.001	0.02	0.38	3.8	0.7	0.3	38.1	<0.01	<0.01	2.0
ZZ59681		0.44	18.5	1000	19.1	15.6	<0.001	0.05	0.28	3.0	0.3	0.5	25.1	<0.01	0.02	1.5
ZZ59682		0.31	30.4	470	25.0	8.3	0.001	0.03	0.35	7.2	1.0	0.4	36.3	<0.01	0.07	4.4
ZZ59683		0.45	31.4	520	27.1	9.1	0.001	0.03	0.50	4.3	1.1	0.5	32.3	<0.01	0.03	2.6
ZZ59684		0.71	23.2	820	27.1	16.8	<0.001	0.03	0.40	2.5	0.3	0.6	11.7	<0.01	0.04	1.5
ZZ59685		0.50	25.1	610	24.4	10.6	0.001	0.02	0.37	3.2	0.6	0.6	21.8	<0.01	0.03	1.9
ZZ59686		0.48	18.1	430	25.5	11.7	<0.001	0.02	0.34	2.3	1.0	0.6	12.3	<0.01	0.02	1.6
ZZ59687		0.47	18.7	820	27.1	13.1	0.001	0.04	0.31	2.6	0.5	0.5	15.0	<0.01	<0.01	1.2
ZZ59688		0.22	19.7	640	57.4	12.5	<0.001	0.04	0.60	3.2	0.4	0.5	21.6	<0.01	0.05	2.0
ZZ59689		0.60	30.3	610	52.1	11.2	0.001	0.02	0.73	3.6	1.1	0.6	12.9	<0.01	0.06	2.1
ZZ59690		0.42	33.5	1430	255	8.9	0.001	0.04	1.59	7.6	1.9	0.6	27.4	<0.01	0.08	3.4



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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59651		<0.005	0.53	1.16	60	<0.05	19.00	311	1.5
ZZ59652		<0.005	0.65	1.89	76	0.05	20.2	439	0.9
ZZ59653		<0.005	0.55	1.19	62	0.07	23.7	366	1.7
ZZ59654		0.006	0.24	1.95	40	0.05	22.2	175	1.4
ZZ59655		0.005	0.14	0.70	37	0.08	4.43	112	0.5
ZZ59656		0.006	0.26	0.77	46	0.16	3.06	99	<0.5
ZZ59657		<0.005	0.20	1.07	43	0.10	15.75	135	1.4
ZZ59658		0.005	0.26	1.55	48	0.11	12.25	140	1.1
ZZ59659		0.010	0.25	1.37	54	0.16	15.00	145	0.5
ZZ59660		0.006	0.18	0.69	41	0.08	4.67	64	1.1
ZZ59661		<0.005	0.29	0.67	31	0.06	2.74	85	0.9
ZZ59662		0.006	0.14	0.62	35	0.08	8.20	85	1.4
ZZ59663		0.007	0.22	1.00	61	0.15	4.62	139	0.9
ZZ59664		0.005	0.18	1.42	47	0.08	4.83	112	0.8
ZZ59665		<0.005	0.09	0.72	46	<0.05	12.80	89	1.2
ZZ59666		<0.005	0.17	3.80	73	<0.05	23.8	560	0.7
ZZ59667		0.006	0.55	0.75	43	0.09	4.50	69	1.6
ZZ59668		0.006	0.20	1.19	57	0.13	3.31	110	<0.5
ZZ59669		<0.005	0.34	0.91	11	<0.05	9.37	429	1.9
ZZ59670		0.009	0.43	1.78	36	0.13	13.70	832	1.4
ZZ59671		0.006	0.29	0.97	47	0.11	5.97	253	1.1
ZZ59672		0.012	0.29	1.00	35	0.13	10.35	229	0.7
ZZ59673		0.006	0.35	1.79	23	0.09	15.65	548	2.1
ZZ59674		<0.005	0.34	1.54	15	0.07	11.60	574	1.7
ZZ59675		0.012	0.23	1.47	39	0.17	10.80	160	1.5
ZZ59676		0.008	0.15	0.53	48	0.10	2.66	110	<0.5
ZZ59677		0.005	0.14	0.71	33	0.08	4.00	78	<0.5
ZZ59678		0.009	0.17	0.92	42	0.13	3.81	101	<0.5
ZZ59679		0.013	0.23	1.04	41	0.21	8.11	77	<0.5
ZZ59680		<0.005	0.12	1.22	19	<0.05	12.45	75	1.4
ZZ59681		0.007	0.13	1.73	33	0.13	7.07	78	1.5
ZZ59682		<0.005	0.15	1.64	25	0.08	22.9	85	2.0
ZZ59683		0.007	0.15	1.61	33	0.10	12.25	83	1.2
ZZ59684		0.009	0.15	0.81	33	0.11	3.91	65	0.6
ZZ59685		0.007	0.15	1.39	33	0.19	7.84	72	0.7
ZZ59686		0.005	0.16	0.56	31	0.09	4.12	75	0.5
ZZ59687		0.007	0.17	1.22	30	0.09	6.63	85	0.7
ZZ59688		<0.005	0.52	1.39	21	<0.05	6.83	229	2.3
ZZ59689		0.012	0.25	1.00	41	0.18	9.36	237	1.2
ZZ59690		0.008	0.67	2.85	39	0.18	27.5	846	2.0

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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59691		0.31	0.003	0.09	1.28	28.3	<0.2	<10	110	1.08	0.34	0.06	0.45	29.5	13.9	20
ZZ59692		0.30	0.002	0.10	1.58	22.1	<0.2	<10	190	0.95	0.34	0.07	0.37	22.1	9.4	21
ZZ59693		0.32	0.002	0.09	1.63	25.9	<0.2	<10	270	0.99	0.33	0.19	0.68	33.0	14.7	24
ZZ59694		0.39	0.002	0.60	0.49	29.9	<0.2	<10	290	0.97	0.27	6.15	2.36	14.50	9.7	8
ZZ59695		0.34	0.003	0.46	0.90	21.4	<0.2	<10	370	1.59	0.35	0.46	0.80	25.9	13.1	16
ZZ59696		0.37	0.001	0.42	0.57	27.2	<0.2	<10	440	0.88	0.26	6.19	1.93	15.40	7.9	9
ZZ59697		0.32	0.002	1.07	0.95	39.6	<0.2	<10	280	0.86	0.16	8.16	2.39	19.90	7.2	14
ZZ59698		0.30	0.003	0.13	1.53	24.7	<0.2	<10	150	0.72	0.28	0.08	0.22	23.9	10.1	23
ZZ59699		0.35	0.003	0.15	1.37	18.9	<0.2	<10	190	0.97	0.29	0.18	0.48	32.6	13.9	23
ZZ59700		0.29	0.001	0.13	1.26	20.2	<0.2	<10	150	0.71	0.33	0.25	0.25	15.90	7.4	16
ZZ59701		0.34	0.001	0.30	0.84	10.9	<0.2	<10	200	0.88	0.24	0.41	0.18	19.30	11.0	13
ZZ59702		0.31	0.001	0.18	0.45	11.0	<0.2	<10	100	0.35	0.20	0.01	0.04	14.55	2.5	8
ZZ59703		0.33	0.002	0.04	1.33	6.1	<0.2	<10	130	0.98	0.26	0.08	0.15	27.6	14.9	19





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**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59691		1.33	30.7	4.13	3.21	<0.05	0.05	0.09	0.044	0.06	9.2	13.5	0.21	522	1.10	0.01
ZZ59692		2.10	17.0	3.81	4.64	<0.05	0.06	0.06	0.037	0.07	8.1	19.0	0.23	547	0.94	0.01
ZZ59693		1.62	23.8	3.93	4.55	0.05	0.07	0.13	0.040	0.07	12.8	14.0	0.38	900	1.50	0.01
ZZ59694		1.28	26.7	2.87	1.55	<0.05	0.09	0.45	0.027	0.13	6.8	4.0	3.68	1020	0.67	0.02
ZZ59695		0.66	29.5	4.32	2.98	0.07	0.07	0.21	0.044	0.12	15.6	13.0	0.27	1100	1.20	0.01
ZZ59696		1.20	19.8	3.13	1.68	<0.05	0.07	0.29	0.036	0.09	7.2	4.0	3.79	1260	0.71	0.02
ZZ59697		0.72	18.5	3.05	2.42	0.05	0.06	0.41	0.024	0.05	12.1	7.2	4.79	1720	0.95	0.02
ZZ59698		1.52	24.2	3.51	4.91	0.05	0.03	0.10	0.039	0.06	10.2	15.6	0.28	385	1.68	0.01
ZZ59699		1.22	32.3	3.54	4.08	0.07	0.03	0.09	0.035	0.06	13.6	13.5	0.27	561	1.79	0.01
ZZ59700		1.45	16.4	3.69	4.47	<0.05	0.04	0.05	0.037	0.06	5.8	10.1	0.18	606	0.85	0.01
ZZ59701		1.72	23.0	3.24	2.61	0.05	0.02	0.06	0.036	0.15	6.4	9.3	0.11	267	1.07	0.02
ZZ59702		1.38	12.3	1.94	1.88	<0.05	<0.02	0.04	0.021	0.12	5.7	2.8	0.03	47	0.54	0.02
ZZ59703		4.81	22.7	2.98	4.46	0.06	<0.02	0.04	0.032	0.14	8.7	20.9	0.30	789	0.73	0.01

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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59691		0.37	33.0	460	72.3	11.5	0.001	0.01	0.76	4.1	0.9	0.6	17.6	<0.01	0.07	4.0
ZZ59692		0.51	19.9	630	50.5	15.8	0.001	0.02	0.50	3.1	0.6	0.7	12.0	<0.01	0.04	2.2
ZZ59693		0.58	36.5	350	71.3	13.3	0.001	0.02	0.74	4.7	0.9	0.7	13.4	<0.01	0.05	3.4
ZZ59694		0.14	21.6	620	90.0	7.0	<0.001	0.05	0.58	4.4	0.9	0.5	40.3	<0.01	0.02	2.2
ZZ59695		0.23	33.9	400	56.3	10.1	<0.001	0.02	0.52	7.5	1.8	0.7	18.6	<0.01	0.04	5.0
ZZ59696		0.15	18.2	590	71.2	8.9	0.001	0.04	0.54	4.5	0.6	0.5	36.4	<0.01	0.02	2.4
ZZ59697		0.26	20.2	1150	93.7	8.1	0.001	0.04	1.03	3.3	1.4	0.4	48.7	<0.01	0.04	1.2
ZZ59698		0.61	25.1	480	46.3	11.6	0.001	0.01	0.85	3.3	1.1	0.7	13.4	<0.01	0.04	2.1
ZZ59699		0.53	34.2	800	34.5	9.2	0.001	0.01	0.80	4.6	1.1	0.6	19.5	<0.01	0.05	3.2
ZZ59700		0.39	15.2	640	45.9	12.9	0.001	0.02	0.34	2.7	0.4	0.7	14.3	<0.01	0.04	1.5
ZZ59701		0.27	27.7	610	23.1	10.4	0.001	0.16	0.45	2.5	1.0	0.6	31.3	<0.01	0.06	2.1
ZZ59702		0.13	6.6	520	19.4	10.2	<0.001	0.18	0.25	1.0	0.5	0.4	12.8	<0.01	0.04	1.4
ZZ59703		0.38	25.7	600	18.2	17.9	0.001	0.03	0.42	3.4	0.5	0.6	7.5	<0.01	0.03	2.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158785**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59691		0.005	0.28	1.24	32	0.12	6.89	195	1.7
ZZ59692		0.006	0.37	0.79	35	0.13	5.09	170	1.4
ZZ59693		0.008	0.33	1.72	39	0.17	7.26	250	1.7
ZZ59694		<0.005	0.38	1.03	13	0.05	10.10	416	2.5
ZZ59695		<0.005	0.19	1.10	24	0.06	21.8	207	2.0
ZZ59696		<0.005	0.38	1.31	15	0.06	10.30	377	1.6
ZZ59697		0.009	0.36	1.60	25	0.10	14.50	522	1.5
ZZ59698		0.010	0.29	0.95	49	0.18	5.97	148	0.7
ZZ59699		0.011	0.22	1.33	47	0.18	11.35	155	1.1
ZZ59700		<0.005	0.27	0.68	36	0.09	4.42	127	0.8
ZZ59701		<0.005	0.15	0.73	22	0.05	4.89	86	0.9
ZZ59702		<0.005	0.14	0.48	14	<0.05	1.92	25	<0.5
ZZ59703		0.012	0.13	0.53	29	0.09	6.80	79	0.5

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158785**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12158786**

Project: ATAC- Regional Area B,D (Dale)  
 P.O. No.: Soil 14  
 This report is for 185 Soil samples submitted to our lab in Whitehorse, YT, Canada on 7- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59705		0.36	0.002	0.07	1.35	10.0	<0.2	<10	190	1.03	0.30	0.28	0.17	26.8	12.8	19
ZZ59706		0.31	0.001	0.16	1.18	10.0	<0.2	<10	200	1.03	0.23	0.95	0.12	16.95	8.9	17
ZZ59707		0.32	0.001	0.03	1.47	21.5	<0.2	<10	240	0.66	0.29	0.40	0.09	12.05	13.7	23
ZZ59708		0.32	0.001	0.04	1.11	19.8	<0.2	<10	160	0.72	0.29	0.27	0.14	13.15	15.7	23
ZZ59709		0.34	0.002	0.02	1.24	23.9	<0.2	<10	170	0.80	0.32	0.25	0.23	13.00	19.7	24
ZZ59710		0.33	0.002	0.06	1.13	28.3	<0.2	<10	80	0.37	0.27	0.05	0.17	18.25	9.3	20
ZZ59711		0.36	0.004	0.11	1.88	103.0	<0.2	<10	180	1.25	0.25	0.17	0.38	38.7	18.8	29
ZZ59712		0.31	0.012	0.04	2.00	45.7	<0.2	<10	180	1.10	0.27	0.11	0.25	37.6	14.4	31
ZZ59713		0.34	0.003	0.05	1.29	50.5	<0.2	<10	150	1.06	0.35	0.28	0.18	28.0	14.5	21
ZZ59714		0.34	0.002	0.09	1.28	65.7	<0.2	<10	140	1.22	0.39	0.15	0.26	26.9	17.4	22
ZZ59715		0.29	0.003	0.39	1.84	165.5	<0.2	<10	170	1.50	0.28	1.19	0.64	28.4	14.1	27
ZZ59716		0.27	0.005	0.16	2.75	13.3	<0.2	<10	310	3.27	0.21	0.29	0.76	57.9	27.0	37
ZZ59717		0.28	0.002	0.02	1.30	9.7	<0.2	<10	90	0.39	0.24	0.05	0.13	24.7	7.9	19
ZZ59718		0.33	0.003	0.12	1.97	38.4	<0.2	<10	200	1.05	0.27	0.36	0.30	28.2	14.5	30
ZZ59719		0.30	0.004	0.24	2.19	139.5	<0.2	<10	150	1.23	0.31	2.66	1.06	37.5	15.1	30
ZZ59720		0.34	0.003	0.44	0.94	637	<0.2	<10	100	1.17	0.14	9.41	1.28	14.90	9.8	15
ZZ59721		0.17	0.003	0.23	1.01	46.9	<0.2	<10	210	0.85	0.22	2.46	0.32	17.20	9.7	16
ZZ59722		0.31	0.002	0.13	1.60	24.4	<0.2	<10	280	1.22	0.26	1.14	0.14	36.3	14.1	29
ZZ59723		0.33	0.003	0.08	1.29	20.4	<0.2	<10	190	0.65	0.28	0.96	0.27	24.5	10.1	21
ZZ59724		0.19	0.003	0.17	1.35	17.9	<0.2	<10	250	0.74	0.21	2.52	0.24	15.65	10.8	21
ZZ59725		0.22	0.004	0.16	1.65	23.2	<0.2	<10	290	0.93	0.25	1.33	0.30	19.10	15.8	24
ZZ59726		0.30	0.004	0.14	1.22	327	<0.2	10	170	0.92	0.24	1.08	0.32	16.55	11.7	20
ZZ59727		0.23	0.003	0.15	1.00	38.3	<0.2	<10	220	0.70	0.19	3.30	0.43	11.70	12.3	14
ZZ59728		0.24	0.004	0.06	1.13	112.0	<0.2	<10	110	0.90	0.34	2.07	1.34	19.80	18.5	17
ZZ59729		0.33	0.008	0.15	1.35	28.5	<0.2	<10	210	0.83	0.23	1.96	0.43	19.45	20.4	22
ZZ59730		0.35	0.003	0.12	0.66	16.0	<0.2	<10	120	0.94	0.27	0.58	0.17	6.52	14.7	13
ZZ59731		0.22	0.005	0.19	1.29	22.2	<0.2	<10	200	0.86	0.23	1.59	0.28	14.90	13.3	20
ZZ59732		0.31	0.004	0.15	1.60	26.9	<0.2	<10	270	0.97	0.28	0.83	0.29	22.9	15.6	26
ZZ59733		0.19	0.007	0.11	0.82	30.7	<0.2	<10	310	0.73	0.17	2.76	0.28	15.35	8.8	16
ZZ59734		0.22	0.004	0.12	1.09	30.0	<0.2	<10	210	0.80	0.18	2.98	0.25	15.70	8.9	18
ZZ59735		0.31	0.002	0.08	1.29	30.8	<0.2	<10	120	0.82	0.28	0.75	0.28	21.7	11.7	23
ZZ59736		0.24	0.003	0.17	1.12	45.3	<0.2	<10	170	1.29	0.24	0.97	0.26	36.2	13.8	16
ZZ59737		0.31	0.002	0.30	1.18	292	<0.2	<10	130	0.80	0.17	6.88	2.39	19.50	7.0	19
ZZ59738		0.35	0.004	0.47	1.45	353	<0.2	<10	150	0.92	0.25	2.84	3.58	28.2	9.6	25
ZZ59739		0.37	0.002	0.11	0.80	72.9	<0.2	<10	170	0.73	0.15	9.74	0.58	28.3	8.5	12
ZZ59740		0.33	0.003	0.11	2.40	23.3	<0.2	<10	190	1.07	0.29	0.12	0.37	27.9	23.3	34
ZZ59741		0.32	0.004	0.11	2.57	96.6	<0.2	<10	200	1.62	0.35	0.09	0.31	27.5	25.9	33
ZZ59742		0.32	0.004	0.03	2.13	17.8	<0.2	<10	210	1.14	0.30	0.18	0.14	35.2	12.9	33
ZZ59743		0.42	0.004	0.17	1.48	45.6	<0.2	<10	180	1.24	0.35	0.33	0.27	26.0	15.2	26
ZZ59744		0.29	0.003	0.09	1.64	24.9	<0.2	<10	180	0.94	0.32	0.30	0.16	20.2	12.9	26

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59705		3.81	25.6	3.20	4.76	0.05	0.03	0.04	0.032	0.11	9.7	20.8	0.32	743	0.86	0.01
ZZ59706		1.96	21.1	2.78	3.34	0.06	0.06	0.10	0.028	0.10	10.6	14.6	0.30	936	0.75	0.01
ZZ59707		1.89	28.8	3.47	5.24	<0.05	0.05	0.05	0.031	0.08	5.4	18.6	0.38	667	1.07	0.01
ZZ59708		1.86	25.3	3.27	4.24	<0.05	0.04	0.03	0.025	0.09	5.9	19.3	0.38	849	1.31	0.01
ZZ59709		2.01	31.8	3.72	4.91	0.05	0.03	0.04	0.034	0.09	5.4	22.8	0.39	1030	1.58	0.01
ZZ59710		2.47	24.9	3.23	6.44	<0.05	<0.02	0.03	0.028	0.08	8.8	9.2	0.16	465	1.50	0.01
ZZ59711		2.17	44.6	4.39	5.14	0.08	0.08	0.44	0.038	0.07	15.8	24.1	0.54	1300	0.99	0.01
ZZ59712		1.84	30.0	3.91	5.66	0.07	0.07	0.23	0.041	0.06	15.3	22.9	0.49	760	1.17	0.01
ZZ59713		2.33	31.9	3.74	4.61	0.05	0.03	0.22	0.033	0.08	13.0	19.5	0.31	736	0.85	0.01
ZZ59714		2.20	33.9	4.14	4.59	0.06	0.04	0.41	0.035	0.09	10.8	19.3	0.32	985	0.73	0.01
ZZ59715		2.20	41.3	6.00	4.62	0.08	0.11	3.47	0.044	0.10	15.7	24.8	0.80	1480	0.85	0.02
ZZ59716		2.98	55.0	9.95	4.72	0.11	0.13	0.14	0.063	0.07	16.9	29.1	0.45	2760	0.70	0.01
ZZ59717		2.30	24.1	2.85	6.09	<0.05	<0.02	0.06	0.022	0.06	11.7	16.3	0.23	310	1.18	0.01
ZZ59718		2.04	43.6	4.42	5.63	0.06	0.05	0.25	0.042	0.08	12.5	25.3	0.53	918	1.16	0.01
ZZ59719		1.75	27.3	3.95	6.18	0.08	0.06	0.96	0.041	0.06	16.9	20.6	1.86	1390	1.42	0.02
ZZ59720		1.28	28.4	3.20	2.41	0.05	0.06	4.78	0.024	0.05	7.6	10.0	5.40	1980	1.14	0.02
ZZ59721		3.18	34.8	2.65	3.00	0.05	0.07	0.52	0.034	0.08	8.6	11.7	0.31	315	0.69	0.02
ZZ59722		3.87	42.8	3.98	4.89	0.08	0.05	0.08	0.047	0.08	20.4	22.0	0.56	547	0.70	0.01
ZZ59723		2.27	26.7	3.09	5.86	0.05	0.03	0.08	0.031	0.06	11.4	17.8	0.29	420	0.90	0.02
ZZ59724		1.96	39.7	2.83	3.90	0.05	0.04	0.16	0.031	0.07	7.7	16.5	0.42	469	0.69	0.02
ZZ59725		2.64	51.2	3.64	4.94	0.05	0.06	0.37	0.038	0.09	9.1	25.5	0.51	717	0.73	0.02
ZZ59726		4.25	41.1	3.37	3.70	0.06	0.10	0.31	0.041	0.09	7.6	22.0	0.57	292	0.66	<0.01
ZZ59727		0.90	49.1	2.57	2.87	0.06	0.05	0.31	0.027	0.06	5.9	12.2	0.35	563	0.56	<0.01
ZZ59728		0.21	53.4	4.21	3.38	0.06	0.08	0.15	0.049	0.13	7.4	13.0	0.34	500	1.34	<0.01
ZZ59729		1.34	77.3	3.69	4.29	0.06	0.06	0.28	0.043	0.08	7.9	20.4	0.63	966	0.94	<0.01
ZZ59730		3.06	45.3	3.73	2.02	<0.05	0.05	0.14	0.040	0.11	3.2	7.0	0.18	331	0.79	<0.01
ZZ59731		2.09	46.6	3.29	3.99	0.06	0.06	0.20	0.038	0.08	6.5	17.9	0.45	510	0.61	<0.01
ZZ59732		1.45	47.9	3.72	4.88	0.07	0.05	0.14	0.038	0.07	9.6	22.1	0.55	667	0.92	<0.01
ZZ59733		2.97	36.1	2.13	2.52	0.06	0.06	0.14	0.028	0.06	7.7	10.2	0.36	429	0.55	<0.01
ZZ59734		3.96	30.9	2.38	3.26	0.06	0.07	0.12	0.025	0.06	8.1	14.3	0.37	391	0.49	<0.01
ZZ59735		1.41	35.3	3.86	4.51	0.06	0.04	0.14	0.037	0.07	9.9	17.8	0.32	576	0.79	<0.01
ZZ59736		0.47	35.2	2.99	3.19	0.05	0.14	0.11	0.038	0.16	14.0	14.7	0.27	817	1.04	<0.01
ZZ59737		0.83	13.9	2.97	3.15	0.05	0.04	1.14	0.020	0.04	9.9	9.1	3.80	1920	1.30	0.01
ZZ59738		0.95	12.7	3.71	4.19	0.08	0.04	3.21	0.025	0.05	15.5	12.1	1.68	2520	1.16	0.01
ZZ59739		0.81	13.3	2.82	2.31	0.06	0.05	1.08	0.023	0.05	16.6	6.8	5.79	2980	0.33	0.01
ZZ59740		2.85	60.2	5.63	6.21	0.07	0.07	0.11	0.058	0.08	9.2	39.7	0.69	1110	1.01	<0.01
ZZ59741		2.67	57.8	6.06	5.94	0.07	0.09	1.20	0.057	0.08	8.8	39.4	0.60	1560	0.84	<0.01
ZZ59742		1.72	28.6	3.47	5.84	0.06	0.05	0.10	0.041	0.06	15.2	20.6	0.58	521	1.14	<0.01
ZZ59743		1.71	48.0	4.14	4.73	0.07	0.09	0.74	0.035	0.09	13.5	30.7	0.61	718	0.76	<0.01
ZZ59744		2.56	20.0	3.59	5.65	0.05	0.05	0.16	0.036	0.10	8.0	31.8	0.39	585	0.71	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ59705		0.41	24.2	560	19.8	14.9	0.001	0.02	0.44	3.9	0.8	0.6	12.7	<0.01	0.04	2.4
ZZ59706		0.28	20.7	790	17.1	11.6	<0.001	0.06	0.38	3.8	0.9	0.5	22.7	<0.01	0.03	1.4
ZZ59707		0.41	22.3	560	17.4	13.3	0.001	0.02	0.39	3.0	0.2	0.7	12.8	<0.01	0.05	1.5
ZZ59708		0.59	23.7	470	21.9	14.4	0.001	0.02	0.55	3.2	0.4	0.7	12.7	<0.01	0.04	2.5
ZZ59709		0.60	28.5	590	25.5	13.2	0.001	0.03	0.65	3.3	0.3	0.8	14.1	<0.01	0.06	1.9
ZZ59710		0.80	13.4	440	15.4	18.1	<0.001	0.02	0.58	2.7	0.5	0.9	7.8	<0.01	0.04	1.3
ZZ59711		0.62	41.2	880	28.2	9.8	0.001	0.02	0.70	5.9	0.9	0.6	15.1	<0.01	0.06	3.6
ZZ59712		0.84	29.6	690	20.7	9.6	0.001	0.03	0.69	4.8	1.0	0.7	12.9	<0.01	0.06	2.4
ZZ59713		0.35	25.7	310	23.6	13.2	0.001	0.01	0.31	5.3	1.1	0.7	16.3	<0.01	0.04	4.3
ZZ59714		0.32	29.5	430	29.4	12.6	0.001	0.02	0.32	5.7	0.8	0.8	14.3	<0.01	0.03	4.6
ZZ59715		0.33	35.5	770	62.5	11.9	0.001	0.05	0.38	8.7	1.4	0.7	18.1	<0.01	0.05	4.1
ZZ59716		0.27	42.7	1270	13.6	9.4	0.001	0.02	0.32	11.8	2.1	0.5	23.0	<0.01	0.06	5.7
ZZ59717		0.80	12.4	280	10.6	13.3	<0.001	0.01	0.36	3.0	0.5	0.8	7.0	<0.01	0.04	2.5
ZZ59718		0.49	34.9	750	18.7	11.5	0.001	0.02	0.47	7.8	1.0	0.7	14.0	<0.01	0.06	3.2
ZZ59719		0.95	28.6	600	72.2	11.1	0.001	0.03	0.76	6.6	1.1	0.8	18.6	<0.01	0.05	4.0
ZZ59720		0.27	25.3	960	62.3	5.0	<0.001	0.04	0.47	4.5	1.1	0.4	68.7	<0.01	0.03	1.6
ZZ59721		0.39	24.1	950	21.4	10.4	0.001	0.11	0.44	3.5	1.5	0.5	69.5	<0.01	0.04	1.0
ZZ59722		0.42	31.1	650	19.7	10.2	<0.001	0.04	0.44	8.4	1.7	0.6	43.2	<0.01	0.06	2.7
ZZ59723		0.70	21.3	460	18.5	9.5	0.001	0.03	0.44	4.2	0.6	0.8	37.5	<0.01	0.07	1.8
ZZ59724		0.47	22.5	1010	13.9	7.8	0.001	0.11	0.55	3.1	1.6	0.5	86.9	<0.01	0.05	0.6
ZZ59725		0.39	30.4	890	16.1	10.4	0.001	0.07	0.54	5.5	1.9	0.6	63.3	<0.01	0.06	1.2
ZZ59726		0.24	25.1	770	18.9	16.2	0.002	0.10	0.41	6.0	1.9	0.5	85.5	<0.01	0.04	1.7
ZZ59727		0.22	22.6	930	15.9	5.3	<0.001	0.12	0.56	3.0	1.3	0.4	164.0	<0.01	0.07	0.4
ZZ59728		0.25	36.2	690	66.9	5.0	0.001	0.06	1.07	6.0	1.1	0.5	125.5	<0.01	0.11	1.0
ZZ59729		0.33	35.3	650	17.7	6.0	0.001	0.06	0.73	8.7	1.5	0.5	105.5	<0.01	0.12	1.4
ZZ59730		0.15	29.6	370	17.8	8.3	0.001	0.03	0.42	8.5	1.0	0.5	27.3	<0.01	0.04	1.3
ZZ59731		0.36	26.8	770	13.7	9.1	0.001	0.08	0.51	5.2	1.4	0.5	69.7	<0.01	0.06	0.8
ZZ59732		0.46	32.4	660	14.8	7.6	<0.001	0.04	0.64	5.8	1.2	0.5	43.3	<0.01	0.07	1.2
ZZ59733		0.26	19.9	950	10.3	7.4	0.001	0.12	0.42	2.3	1.2	0.4	89.1	<0.01	0.02	0.5
ZZ59734		0.38	22.2	960	12.3	8.4	<0.001	0.11	0.41	2.8	1.4	0.5	87.1	<0.01	0.03	0.6
ZZ59735		0.37	24.1	500	18.8	10.2	0.001	0.03	0.45	4.6	0.8	0.6	35.6	<0.01	0.07	2.1
ZZ59736		0.27	25.7	520	15.7	7.3	0.001	0.04	0.38	5.2	0.9	0.6	36.4	<0.01	0.07	2.9
ZZ59737		0.47	18.5	1150	54.8	6.7	0.001	0.09	0.58	2.3	0.7	0.5	37.7	<0.01	0.03	0.7
ZZ59738		0.55	25.0	900	70.2	7.7	0.001	0.06	1.04	3.0	0.9	0.6	24.4	<0.01	0.06	1.3
ZZ59739		0.21	13.6	1090	19.0	6.1	<0.001	0.05	0.21	3.6	0.7	0.5	42.4	<0.01	0.05	1.5
ZZ59740		0.34	35.7	540	19.7	11.7	0.001	0.02	0.42	7.3	0.4	0.6	9.7	<0.01	0.10	2.9
ZZ59741		0.21	41.7	330	49.2	14.0	0.001	0.01	0.42	8.0	0.9	0.7	11.3	<0.01	0.08	4.6
ZZ59742		0.70	29.1	780	16.7	9.7	0.001	0.02	0.64	4.5	0.9	0.7	13.9	<0.01	0.05	1.5
ZZ59743		0.36	33.9	490	51.0	9.5	<0.001	0.01	0.52	6.9	0.5	0.6	18.2	<0.01	0.06	4.2
ZZ59744		0.46	20.8	710	21.3	16.0	<0.001	0.03	0.31	4.7	0.6	0.8	17.7	<0.01	0.06	2.5

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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59705		0.010	0.12	0.64	34	0.11	8.80	83	0.7
ZZ59706		0.007	0.13	1.07	24	0.08	16.30	72	1.2
ZZ59707		0.007	0.19	0.50	39	0.14	3.25	68	1.2
ZZ59708		0.016	0.09	0.64	35	0.23	3.48	81	1.0
ZZ59709		0.014	0.13	0.62	39	0.22	3.68	90	0.8
ZZ59710		0.015	0.25	0.52	56	0.20	2.72	59	<0.5
ZZ59711		0.016	0.87	1.17	48	0.22	10.85	120	2.1
ZZ59712		0.017	0.41	1.23	54	0.25	8.25	89	1.7
ZZ59713		0.006	0.39	0.94	35	0.10	9.47	79	0.9
ZZ59714		0.006	0.56	0.86	31	0.09	9.18	102	1.2
ZZ59715		0.005	3.14	1.45	32	0.20	18.55	124	3.2
ZZ59716		<0.005	0.15	0.97	47	0.11	16.15	65	5.0
ZZ59717		0.015	0.12	0.47	58	0.16	2.62	44	0.6
ZZ59718		0.008	0.43	1.09	52	0.13	11.85	80	1.4
ZZ59719		0.018	5.30	2.30	54	0.26	13.90	211	1.8
ZZ59720		0.008	7.59	2.03	22	0.44	11.55	413	1.5
ZZ59721		0.005	1.08	3.44	25	0.08	11.50	127	2.0
ZZ59722		0.008	0.21	3.01	40	0.11	18.25	69	1.7
ZZ59723		0.015	0.14	2.27	45	0.16	7.21	65	1.0
ZZ59724		0.010	0.12	3.80	35	0.08	9.48	69	1.3
ZZ59725		0.008	0.13	2.51	39	0.09	11.05	83	1.7
ZZ59726		0.005	0.75	3.38	30	0.06	12.10	104	2.2
ZZ59727		<0.005	0.13	2.21	25	0.05	12.75	84	1.2
ZZ59728		<0.005	0.10	0.84	36	0.07	19.05	136	1.7
ZZ59729		0.008	0.10	1.43	43	0.13	15.40	81	1.7
ZZ59730		<0.005	0.13	0.84	25	<0.05	9.06	73	1.3
ZZ59731		0.007	0.10	1.08	35	0.06	10.80	70	1.3
ZZ59732		0.012	0.08	1.32	42	0.11	10.60	69	1.3
ZZ59733		0.005	0.17	5.51	21	0.06	9.93	68	1.6
ZZ59734		0.007	0.18	6.06	24	0.06	11.15	62	1.8
ZZ59735		0.006	0.13	3.56	43	0.08	7.41	96	1.2
ZZ59736		<0.005	0.30	2.03	30	0.05	8.53	44	3.2
ZZ59737		0.017	1.44	2.75	33	0.34	10.55	407	0.9
ZZ59738		0.022	3.54	2.48	41	0.52	12.90	626	1.0
ZZ59739		0.007	1.51	1.71	20	0.18	13.25	65	1.2
ZZ59740		0.006	0.23	0.60	59	0.12	7.06	94	1.6
ZZ59741		<0.005	1.27	0.75	48	0.08	8.14	102	2.8
ZZ59742		0.020	0.23	1.34	55	0.28	10.55	82	1.0
ZZ59743		0.011	0.33	1.03	36	0.13	15.30	98	2.6
ZZ59744		0.006	0.27	1.15	39	0.13	7.47	84	1.2



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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59745		0.34	0.002	0.24	1.66	59.2	<0.2	<10	280	1.00	0.31	0.45	0.22	24.4	11.7	27
ZZ59746		0.34	0.002	0.14	1.94	71.6	<0.2	<10	290	1.30	0.36	0.21	0.22	25.1	13.8	27
ZZ59747		0.31	0.003	0.13	1.52	57.0	<0.2	<10	110	0.70	0.31	0.06	0.19	20.1	12.0	25
ZZ59748		0.35	0.003	0.08	1.74	48.4	<0.2	<10	140	1.28	0.34	0.08	0.31	28.1	14.2	30
ZZ59749		0.36	0.003	0.06	1.74	34.5	<0.2	<10	340	1.27	0.33	0.18	0.13	22.6	20.7	27
ZZ59750		0.30	0.002	0.04	1.57	19.1	<0.2	<10	140	0.74	0.31	0.07	0.12	16.65	13.6	28
ZZ59751		0.40	0.002	0.17	1.02	10.4	<0.2	<10	160	1.00	0.24	0.28	0.17	28.4	10.5	19
ZZ59752		0.29	0.002	0.08	1.32	14.3	<0.2	<10	80	0.55	0.31	0.04	0.13	15.70	8.9	20
ZZ59753		0.33	0.002	0.10	0.75	13.3	<0.2	<10	60	0.44	0.32	0.01	0.06	14.90	5.1	11
ZZ59754		0.31	0.001	0.44	0.29	8.5	<0.2	<10	70	0.15	0.19	0.04	0.05	8.11	1.7	6
ZZ59755		0.31	0.001	0.40	1.07	5.8	<0.2	<10	260	1.47	0.26	0.83	0.19	31.2	11.7	16
ZZ59756		0.35	0.001	0.15	1.41	7.3	<0.2	<10	290	1.78	0.26	0.52	0.20	46.1	13.8	20
ZZ59757		0.28	<0.001	0.02	1.13	10.6	<0.2	<10	170	1.29	0.38	0.04	0.08	6.80	20.4	33
ZZ59758		0.33	0.001	0.03	2.17	38.4	<0.2	<10	120	1.03	0.42	0.04	0.19	18.55	17.9	35
ZZ59759		0.30	0.002	0.05	1.82	19.9	<0.2	<10	130	0.75	0.35	0.09	0.15	23.8	19.9	31
ZZ59760		0.34	0.004	0.08	1.56	68.0	<0.2	<10	240	1.86	0.40	0.14	0.22	29.8	18.6	31
ZZ59761		0.30	0.002	0.08	1.99	85.7	<0.2	<10	190	1.28	0.36	0.11	0.25	28.3	19.4	29
ZZ59762		0.31	0.001	0.06	1.17	23.0	<0.2	<10	320	0.86	0.43	0.09	0.07	14.90	15.8	26
ZZ59763		0.41	0.001	0.04	1.67	15.6	<0.2	<10	120	1.10	0.42	0.05	0.17	22.7	23.0	30
ZZ59764		0.37	0.002	0.09	1.81	22.9	<0.2	<10	130	1.17	0.33	0.10	0.20	28.5	16.2	29
ZZ59765		0.39	0.002	0.09	2.06	23.9	<0.2	<10	150	1.16	0.35	0.07	0.14	28.8	17.6	30
ZZ59766		0.35	0.003	0.06	1.47	36.8	<0.2	<10	130	0.98	0.40	0.05	0.21	20.0	16.2	28
ZZ59767		0.29	0.002	0.09	1.74	30.5	<0.2	<10	200	1.57	0.45	0.14	0.13	21.3	17.7	31
ZZ59768		0.33	0.002	0.07	1.98	33.6	<0.2	<10	340	1.64	0.49	0.17	0.09	17.05	17.4	35
ZZ59769		0.31	0.003	0.07	1.89	199.0	<0.2	<10	250	1.48	0.33	0.16	0.34	38.1	15.9	26
ZZ59770		0.31	0.004	0.27	1.82	121.0	<0.2	<10	360	1.31	0.30	0.72	0.60	33.1	17.2	29
ZZ59771		0.33	0.003	0.11	1.68	270	<0.2	<10	250	1.08	0.34	0.20	0.36	32.3	16.4	28
ZZ59772		0.31	0.003	0.11	1.64	206	<0.2	<10	220	1.10	0.32	0.23	0.39	26.4	15.9	26
ZZ59773		0.33	0.003	0.13	1.67	84.1	<0.2	<10	240	1.02	0.33	0.35	0.20	25.0	15.5	25
ZZ59774		0.31	0.003	0.09	1.68	39.6	<0.2	<10	120	1.03	0.33	0.33	0.36	28.4	19.7	25
ZZ59775		0.30	0.003	0.12	1.55	51.8	<0.2	<10	120	1.06	0.35	0.54	0.27	26.1	18.4	23
ZZ59776		0.31	0.001	0.07	0.45	12.0	<0.2	<10	110	0.99	0.41	0.39	0.04	9.68	11.6	8
ZZ59777		0.27	0.004	0.12	1.38	24.1	<0.2	<10	120	1.26	0.33	0.71	0.14	24.1	16.7	22
ZZ59778		0.34	0.002	0.08	1.50	20.6	<0.2	<10	160	0.98	0.30	0.67	0.14	19.20	16.4	24
ZZ59779		0.41	0.002	0.09	1.46	17.1	<0.2	<10	90	1.20	0.38	0.43	0.16	35.7	16.9	24
ZZ59780		0.31	0.005	0.15	1.25	431	<0.2	<10	150	1.15	0.31	1.07	0.33	22.1	16.3	22
ZZ59781		0.28	0.003	0.08	1.36	29.5	<0.2	<10	250	1.22	0.31	0.64	0.20	32.9	15.6	26
ZZ59782		0.28	0.002	0.09	1.01	39.2	<0.2	<10	410	1.33	0.28	0.86	0.11	48.4	11.8	28
ZZ59783		0.30	0.007	0.07	0.69	23.1	<0.2	<10	80	1.34	0.36	1.60	0.17	30.5	12.3	19
ZZ59784		0.25	0.008	0.07	0.74	44.8	<0.2	<10	160	1.31	0.25	2.14	0.21	38.8	11.2	20



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59745		2.31	27.0	3.62	5.73	0.06	0.07	0.28	0.038	0.08	9.7	20.2	0.49	815	1.10	<0.01
ZZ59746		2.69	31.2	4.19	7.13	0.06	0.04	0.27	0.044	0.08	9.6	28.6	0.37	862	0.97	<0.01
ZZ59747		2.20	37.6	3.75	5.67	0.05	0.05	0.20	0.043	0.07	7.7	18.4	0.33	610	1.18	<0.01
ZZ59748		2.37	25.5	4.02	5.46	0.06	0.04	0.16	0.035	0.09	10.8	25.8	0.42	793	1.27	<0.01
ZZ59749		2.48	56.2	4.52	5.33	0.06	0.05	0.12	0.049	0.08	8.9	30.6	0.55	907	0.91	<0.01
ZZ59750		2.13	28.4	4.07	5.82	0.05	0.02	0.04	0.035	0.09	6.4	20.1	0.39	674	1.37	<0.01
ZZ59751		2.21	20.1	2.72	3.24	0.08	0.05	0.06	0.027	0.09	13.9	15.3	0.36	521	1.21	<0.01
ZZ59752		2.03	21.5	3.19	4.36	<0.05	0.05	0.05	0.033	0.08	6.1	17.6	0.25	331	1.32	<0.01
ZZ59753		3.17	15.4	2.56	3.19	<0.05	<0.02	0.02	0.026	0.09	5.8	5.5	0.07	73	0.79	<0.01
ZZ59754		1.47	9.2	1.36	1.78	<0.05	<0.02	0.04	0.017	0.08	3.4	1.0	0.02	36	0.73	<0.01
ZZ59755		2.30	22.7	3.43	2.94	0.08	0.10	0.03	0.041	0.16	13.3	11.8	0.17	328	1.21	<0.01
ZZ59756		1.67	22.0	3.85	3.54	0.09	0.07	0.04	0.048	0.16	18.1	17.4	0.26	471	1.44	<0.01
ZZ59757		2.93	30.1	3.89	5.08	<0.05	<0.02	0.03	0.032	0.19	2.5	10.3	0.31	1470	0.98	<0.01
ZZ59758		3.95	74.7	4.57	7.11	0.05	0.03	0.04	0.048	0.13	8.4	30.9	0.51	665	1.99	<0.01
ZZ59759		2.11	21.1	3.77	5.68	<0.05	0.04	0.04	0.042	0.14	8.8	24.7	0.48	1480	1.05	<0.01
ZZ59760		3.10	36.7	4.07	5.39	0.08	0.04	0.28	0.037	0.10	11.6	31.2	0.53	1120	1.01	<0.01
ZZ59761		2.14	47.2	5.18	5.57	0.07	0.05	0.46	0.048	0.09	9.5	34.2	0.54	1260	0.91	<0.01
ZZ59762		2.60	30.4	3.46	7.65	0.08	0.02	0.03	0.036	0.12	6.7	11.0	0.24	482	0.96	0.01
ZZ59763		2.30	25.0	3.80	7.79	0.08	0.03	0.03	0.040	0.08	9.8	21.3	0.31	812	1.27	0.01
ZZ59764		2.24	32.1	3.50	6.13	0.08	0.05	0.06	0.042	0.09	12.0	25.9	0.50	604	1.00	0.01
ZZ59765		2.00	38.6	3.90	6.75	0.09	0.07	0.05	0.043	0.08	12.5	28.8	0.48	569	1.31	0.01
ZZ59766		2.66	28.3	3.76	7.17	0.07	0.02	0.05	0.041	0.09	8.7	17.9	0.32	675	1.08	0.01
ZZ59767		2.74	31.2	3.90	8.35	0.10	0.03	0.07	0.045	0.09	8.1	24.7	0.46	776	0.66	0.01
ZZ59768		2.50	35.3	4.16	9.56	0.09	0.05	0.10	0.050	0.10	7.3	23.5	0.45	609	0.73	0.01
ZZ59769		2.08	43.1	5.41	5.99	0.12	0.07	1.02	0.049	0.06	11.8	25.8	0.46	1530	0.91	<0.01
ZZ59770		1.63	49.2	4.34	5.98	0.12	0.07	1.02	0.050	0.07	15.3	25.8	0.60	1120	0.84	0.01
ZZ59771		2.21	35.4	4.31	5.63	0.10	0.06	0.98	0.044	0.08	12.8	21.9	0.54	1250	1.10	0.01
ZZ59772		2.05	36.3	4.22	5.88	0.11	0.08	0.53	0.044	0.08	10.6	25.8	0.48	986	0.89	<0.01
ZZ59773		2.22	43.5	4.13	6.04	0.10	0.08	0.20	0.041	0.08	10.8	27.3	0.53	706	0.90	0.01
ZZ59774		1.30	54.9	4.32	5.45	0.11	0.11	0.34	0.036	0.09	12.7	41.0	0.76	794	0.68	0.01
ZZ59775		1.91	65.5	4.34	5.20	0.11	0.11	0.29	0.036	0.10	12.5	36.6	0.72	517	0.65	0.01
ZZ59776		6.61	43.1	3.24	1.62	0.07	0.07	0.03	0.040	0.17	4.5	4.5	0.11	399	0.42	<0.01
ZZ59777		1.46	57.0	4.09	4.68	0.11	0.12	0.13	0.045	0.11	12.3	26.5	0.53	471	0.74	0.01
ZZ59778		1.42	49.1	4.09	5.06	0.10	0.08	0.08	0.048	0.08	7.8	26.8	0.58	404	0.77	0.01
ZZ59779		2.12	49.3	4.29	5.19	0.13	0.07	0.04	0.055	0.08	12.5	31.6	0.49	753	0.57	0.01
ZZ59780		9.28	53.7	3.93	4.21	0.11	0.11	0.21	0.046	0.08	10.1	23.4	0.59	444	1.14	0.01
ZZ59781		2.22	36.9	3.66	4.77	0.10	0.08	0.08	0.042	0.09	14.2	22.2	0.55	716	0.72	0.01
ZZ59782		2.44	34.0	3.10	3.64	0.12	0.07	0.05	0.040	0.07	24.9	11.2	0.26	524	0.46	0.01
ZZ59783		6.58	32.0	3.15	2.53	0.12	0.10	0.10	0.046	0.09	16.2	8.3	0.17	259	0.32	0.01
ZZ59784		8.89	34.0	2.98	2.83	0.13	0.08	0.09	0.042	0.06	15.6	12.7	0.27	514	0.39	0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ59745		0.57	25.1	860	23.2	13.1	<0.001	0.04	0.51	5.0	0.4	0.8	26.2	<0.01	0.06	2.2
ZZ59746		0.42	27.3	680	26.2	17.4	<0.001	0.02	0.35	5.5	0.7	0.9	15.5	<0.01	0.06	2.6
ZZ59747		0.46	24.8	790	19.4	14.0	0.001	0.03	0.52	4.1	0.5	0.7	8.3	<0.01	0.08	1.5
ZZ59748		0.67	27.5	610	21.8	14.0	0.001	0.02	0.64	5.2	0.7	0.7	10.3	<0.01	0.07	2.8
ZZ59749		0.30	33.3	380	21.4	12.9	<0.001	0.01	0.50	6.4	0.6	0.6	18.0	<0.01	0.08	3.2
ZZ59750		0.65	23.1	450	17.5	15.5	<0.001	0.02	0.58	2.9	0.4	0.8	7.8	<0.01	0.08	1.6
ZZ59751		0.44	26.1	350	17.3	10.3	0.001	0.02	0.67	4.7	0.9	0.5	15.3	<0.01	0.03	4.1
ZZ59752		0.55	19.7	470	18.1	12.1	0.001	0.03	0.59	2.3	0.4	0.7	9.2	<0.01	0.06	2.0
ZZ59753		0.28	12.7	340	26.6	13.2	<0.001	0.05	0.41	1.4	0.2	0.6	25.1	<0.01	0.03	2.3
ZZ59754		0.11	4.7	610	19.8	9.8	0.001	0.09	0.32	0.6	0.3	0.5	8.4	<0.01	0.03	0.5
ZZ59755		0.29	31.0	820	21.7	11.8	0.001	0.09	0.39	3.6	1.1	0.7	33.0	<0.01	0.05	2.2
ZZ59756		0.31	38.4	780	19.3	13.1	0.001	0.04	0.36	4.3	0.8	0.8	24.7	<0.01	0.03	2.9
ZZ59757		0.71	23.4	270	27.7	26.5	<0.001	0.01	0.42	3.8	<0.2	1.3	8.2	<0.01	0.03	3.7
ZZ59758		0.99	28.5	310	21.4	22.7	0.001	0.01	0.73	4.3	0.6	1.2	9.6	<0.01	0.07	3.9
ZZ59759		0.90	22.1	550	21.1	14.0	<0.001	0.01	0.51	3.3	<0.2	0.9	9.4	<0.01	0.03	4.5
ZZ59760		0.59	34.8	590	32.9	14.5	<0.001	0.01	0.52	6.7	0.7	0.9	14.3	<0.01	0.05	4.8
ZZ59761		0.36	31.6	500	41.4	11.3	<0.001	0.01	0.48	5.9	0.2	0.8	11.3	<0.01	0.06	4.0
ZZ59762		0.87	19.8	470	15.0	22.6	<0.001	0.04	0.30	3.9	0.5	1.1	11.1	<0.01	0.05	1.4
ZZ59763		1.44	22.6	300	18.9	21.8	<0.001	0.02	0.40	4.8	0.6	1.1	8.8	<0.01	0.04	4.0
ZZ59764		1.09	30.1	400	18.7	17.3	<0.001	0.02	0.43	5.4	0.7	0.7	12.0	<0.01	0.05	4.5
ZZ59765		1.04	30.3	300	19.2	18.6	<0.001	0.02	0.45	6.4	0.7	0.7	11.4	<0.01	0.06	5.4
ZZ59766		0.95	21.6	570	20.0	20.9	<0.001	0.03	0.31	3.4	0.6	0.9	8.6	<0.01	0.06	1.2
ZZ59767		0.73	30.4	580	24.0	20.2	<0.001	0.03	0.19	6.4	0.7	1.0	16.2	<0.01	0.03	2.8
ZZ59768		0.66	28.5	660	22.3	22.1	<0.001	0.03	0.17	6.5	0.7	1.2	17.6	<0.01	0.04	3.0
ZZ59769		0.51	32.9	730	42.4	14.1	<0.001	0.04	0.41	6.2	0.8	0.5	15.4	<0.01	0.08	2.6
ZZ59770		0.49	35.7	1090	28.5	12.8	<0.001	0.07	0.51	6.9	1.4	0.5	35.9	0.01	0.07	1.4
ZZ59771		0.75	34.1	460	38.4	15.7	<0.001	0.03	0.54	5.6	0.9	0.6	16.4	<0.01	0.06	2.9
ZZ59772		0.53	26.8	1020	26.7	18.9	<0.001	0.05	0.40	5.8	0.8	0.5	17.1	<0.01	0.08	2.0
ZZ59773		0.47	28.5	950	21.1	17.1	<0.001	0.05	0.44	5.4	0.8	0.5	24.2	<0.01	0.07	1.7
ZZ59774		0.25	36.2	390	24.0	9.0	<0.001	0.03	0.44	7.1	0.8	0.3	16.1	<0.01	0.06	3.1
ZZ59775		0.26	37.1	520	27.4	9.1	<0.001	0.04	0.53	7.9	0.9	0.4	28.6	<0.01	0.08	3.5
ZZ59776		0.16	24.1	210	13.1	17.8	<0.001	0.02	0.17	5.0	0.5	0.4	26.3	<0.01	0.06	2.2
ZZ59777		0.32	37.2	370	20.6	9.7	<0.001	0.03	0.37	10.1	0.9	0.5	44.5	<0.01	0.08	4.3
ZZ59778		0.34	33.4	430	16.8	9.6	<0.001	0.04	0.34	8.6	0.8	0.5	45.6	<0.01	0.08	3.0
ZZ59779		0.32	33.6	560	20.1	10.4	<0.001	0.03	0.31	10.6	0.9	0.5	25.6	0.01	0.09	3.7
ZZ59780		0.33	34.3	620	24.1	17.8	<0.001	0.06	0.53	8.7	1.5	0.5	71.0	<0.01	0.08	2.4
ZZ59781		0.53	33.0	550	17.1	12.0	<0.001	0.04	0.32	8.1	1.0	0.5	31.2	<0.01	0.05	2.8
ZZ59782		0.36	26.7	620	15.2	12.1	<0.001	0.04	0.18	5.6	1.0	0.4	35.2	0.01	0.03	2.1
ZZ59783		0.28	34.9	740	19.9	12.4	<0.001	0.07	0.24	6.8	1.0	0.4	50.0	0.01	0.03	3.0
ZZ59784		0.29	36.9	740	19.6	10.9	<0.001	0.10	0.28	4.9	1.3	0.4	64.9	0.01	0.03	1.2

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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59745		0.011	0.46	1.17	46	0.14	8.06	94	1.6
ZZ59746		0.005	0.60	0.94	46	0.13	10.80	98	0.9
ZZ59747		0.008	0.41	0.81	52	0.13	5.82	81	0.9
ZZ59748		0.016	0.27	1.15	50	0.23	8.55	102	0.8
ZZ59749		0.006	0.22	0.72	45	0.10	7.94	78	1.2
ZZ59750		0.011	0.17	0.63	44	0.19	3.59	71	<0.5
ZZ59751		0.016	0.10	0.81	28	0.11	14.95	79	1.6
ZZ59752		0.009	0.14	0.51	37	0.13	2.93	69	1.2
ZZ59753		0.006	0.16	0.37	23	0.05	2.58	43	0.5
ZZ59754		<0.005	0.09	0.26	18	<0.05	1.08	31	<0.5
ZZ59755		<0.005	0.14	1.50	23	<0.05	12.35	73	3.4
ZZ59756		<0.005	0.11	1.02	27	<0.05	13.70	87	2.3
ZZ59757		0.015	0.17	1.23	26	0.46	4.24	61	<0.5
ZZ59758		0.015	0.27	1.11	53	0.28	4.15	78	0.8
ZZ59759		0.018	0.18	0.78	47	0.25	3.15	83	1.4
ZZ59760		0.021	0.40	1.32	38	0.18	11.15	103	1.2
ZZ59761		0.006	0.65	0.91	48	0.09	7.79	100	1.4
ZZ59762		0.011	0.17	0.81	41	0.20	5.93	60	<0.5
ZZ59763		0.017	0.17	0.91	46	0.21	4.70	73	1.1
ZZ59764		0.016	0.21	0.77	43	0.19	6.04	74	1.3
ZZ59765		0.012	0.19	0.86	49	0.14	5.48	69	2.6
ZZ59766		0.015	0.30	0.74	44	0.20	4.49	75	<0.5
ZZ59767		0.008	0.26	0.90	34	0.11	11.80	77	0.6
ZZ59768		0.005	0.33	1.06	38	0.10	10.50	82	1.0
ZZ59769		0.005	1.87	1.02	46	0.42	10.25	130	1.6
ZZ59770		0.008	0.78	2.60	44	0.14	17.75	118	1.6
ZZ59771		0.011	1.50	1.03	46	0.19	9.21	136	1.5
ZZ59772		0.008	1.08	1.17	43	0.13	9.15	132	1.9
ZZ59773		0.007	0.50	1.19	42	0.10	8.38	82	2.0
ZZ59774		0.005	0.45	0.91	35	0.05	10.85	89	3.1
ZZ59775		0.005	0.51	0.84	34	0.06	11.60	104	3.6
ZZ59776		<0.005	0.34	1.22	13	<0.05	5.76	34	2.3
ZZ59777		<0.005	0.17	1.16	34	0.05	16.30	76	3.6
ZZ59778		0.005	0.12	1.02	41	0.05	8.66	74	2.3
ZZ59779		0.005	0.12	1.08	36	0.05	17.45	66	1.6
ZZ59780		0.005	1.16	3.04	34	0.07	14.65	86	2.9
ZZ59781		0.008	0.20	1.93	33	0.08	14.50	65	2.0
ZZ59782		0.005	0.14	2.77	28	0.09	18.85	62	1.5
ZZ59783		<0.005	0.22	5.01	18	0.05	19.40	84	2.7
ZZ59784		<0.005	0.24	3.85	17	0.06	23.4	88	1.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59785		0.26	0.001	0.03	1.23	12.1	<0.2	<10	200	0.39	0.33	0.37	0.14	29.5	5.8	17
ZZ59786		0.30	0.002	0.06	1.96	39.6	<0.2	<10	110	0.78	0.36	0.06	0.22	23.0	20.7	29
ZZ59787		0.25	0.004	0.16	1.41	27.0	<0.2	<10	190	0.88	0.26	1.22	0.24	22.9	14.5	23
ZZ59788		0.28	0.005	0.14	1.56	57.1	<0.2	<10	160	0.90	0.30	0.72	0.44	26.9	16.0	27
ZZ59789		0.28	0.001	0.07	1.73	21.6	<0.2	<10	230	0.89	0.34	0.36	0.18	17.80	14.6	25
ZZ59790		0.38	0.004	0.15	1.56	39.3	<0.2	<10	160	1.08	0.31	0.54	0.35	28.9	20.8	26
ZZ59791		0.38	0.004	0.12	1.92	36.4	<0.2	<10	230	1.40	0.34	0.27	0.59	40.8	24.1	28
ZZ59792		0.28	0.003	0.08	2.14	26.7	<0.2	<10	160	1.13	0.30	0.13	0.27	37.1	14.6	26
ZZ59793		0.27	0.003	0.10	0.96	24.8	<0.2	<10	230	1.39	0.36	0.84	0.13	23.3	17.3	17
ZZ59794		0.26	0.012	0.06	0.64	24.8	<0.2	<10	230	1.25	0.39	1.37	0.20	41.6	11.3	23
ZZ59795		0.33	0.002	0.06	0.97	9.6	<0.2	<10	150	1.33	0.30	0.67	0.18	52.6	12.4	27
ZZ59796		0.32	0.005	0.12	1.35	22.3	<0.2	<10	170	1.14	0.27	0.65	0.19	36.7	14.1	27
ZZ59797		0.25	0.009	0.15	0.80	26.2	<0.2	<10	210	0.94	0.16	2.94	0.28	25.1	8.1	15
ZZ59798		0.21	0.008	0.28	1.07	57.4	<0.2	10	220	1.08	0.20	2.31	0.27	18.15	10.1	16
ZZ59799		0.28	0.002	0.17	1.00	14.4	<0.2	10	150	0.96	0.26	2.79	0.26	18.90	10.8	15
ZZ59800		0.33	0.003	0.09	1.56	27.3	<0.2	<10	180	1.33	0.34	0.10	0.30	28.0	17.6	24
ZZ59801		0.25	0.003	0.10	1.33	16.4	<0.2	<10	220	0.99	0.26	1.28	0.17	15.50	9.8	20
ZZ59802		0.32	0.004	0.08	1.18	23.5	<0.2	<10	110	0.90	0.30	0.47	0.26	19.30	11.8	21
ZZ59803		0.35	0.003	0.15	1.47	35.2	<0.2	<10	270	0.89	0.25	1.21	0.17	21.2	11.3	22
ZZ59804		0.36	0.002	0.05	1.84	36.1	<0.2	<10	170	1.07	0.30	0.14	0.19	26.9	14.7	26
ZZ59805		0.30	0.002	0.35	1.17	247	<0.2	<10	200	1.29	0.21	6.64	0.61	23.5	9.3	16
ZZ59806		0.36	0.002	0.06	1.29	12.9	<0.2	<10	120	0.41	0.26	0.07	0.16	18.95	7.1	20
ZZ59807		0.34	0.011	0.08	1.87	28.8	<0.2	<10	140	0.80	0.33	0.06	0.39	26.9	13.9	28
ZZ59808		0.35	0.005	0.31	1.57	264	<0.2	<10	250	1.30	0.30	0.65	0.84	36.0	16.4	25
ZZ59809		0.32	0.003	0.15	1.56	20.4	<0.2	<10	230	0.85	0.26	0.17	0.21	21.4	6.6	24
ZZ59810		0.37	0.001	0.05	1.63	10.4	<0.2	<10	100	1.27	0.46	0.02	0.12	11.60	17.5	28
ZZ59811		0.33	0.002	0.05	1.88	68.6	<0.2	<10	150	1.20	0.34	0.10	0.25	30.8	15.5	30
ZZ67931		0.40	0.002	1.17	0.48	63.7	<0.2	<10	250	0.74	0.22	8.14	6.23	18.65	8.4	10
ZZ67932		0.34	0.004	0.77	1.72	33.6	<0.2	<10	540	0.93	0.29	0.21	2.32	36.9	9.9	29
ZZ67933		0.37	0.003	2.22	1.41	69.8	<0.2	<10	440	1.61	0.18	6.02	3.71	33.5	6.5	19
ZZ67934		0.39	0.003	1.13	0.68	50.1	<0.2	<10	300	0.68	0.14	8.40	2.69	15.70	5.4	11
ZZ67935		0.33	0.002	0.91	0.52	47	<0.2	<10	180	0.61	0.13	11.10	1.68	14.75	5.4	10
ZZ67936		0.32	0.002	1.17	0.82	54.6	<0.2	<10	490	0.90	0.19	7.13	2.64	21.8	6.8	13
ZZ67937		0.37	0.002	0.67	0.81	37.2	<0.2	<10	200	0.97	0.27	4.70	1.40	25.0	9.5	13
ZZ67938		0.31	0.002	0.22	0.32	26.6	<0.2	<10	100	0.85	0.45	0.35	0.20	13.30	29.6	7
ZZ67939		0.38	<0.001	0.05	0.98	13.8	<0.2	<10	160	0.72	0.33	0.14	0.12	18.85	8.6	15
ZZ67940		0.36	0.002	0.15	1.18	8.8	<0.2	<10	100	0.48	0.33	0.08	0.12	19.75	6.0	20
ZZ67941		0.31	0.002	0.17	0.45	13.2	<0.2	<10	110	1.01	0.39	0.14	0.13	32.1	15.7	10
ZZ67942		0.40	0.002	0.20	0.85	11.9	<0.2	<10	140	1.07	0.29	7.94	0.23	27.6	11.4	14
ZZ67943		0.41	0.002	0.04	1.60	15.6	<0.2	<10	160	1.47	0.38	0.21	0.10	24.2	14.9	23



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 Finalized Date: 22- JUL- 2012  
 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59785		1.52	17.8	2.51	7.50	0.07	0.03	0.02	0.028	0.04	14.4	10.2	0.16	161	1.08	<0.01
ZZ59786		1.70	48.5	5.52	6.69	0.10	0.06	0.06	0.054	0.07	9.6	36.9	0.57	558	1.00	<0.01
ZZ59787		0.88	42.0	3.46	4.46	0.09	0.06	0.17	0.039	0.06	11.2	22.1	0.50	535	0.95	0.01
ZZ59788		1.78	42.1	3.93	5.00	0.09	0.06	0.12	0.042	0.07	11.9	25.3	0.59	680	1.12	0.01
ZZ59789		1.17	36.9	4.05	6.29	0.08	0.04	0.04	0.043	0.06	7.5	29.6	0.49	470	1.10	0.01
ZZ59790		1.61	69.4	4.60	5.06	0.11	0.10	0.20	0.044	0.09	13.5	29.2	0.65	820	0.99	0.01
ZZ59791		1.69	70.7	5.11	5.34	0.14	0.09	0.15	0.052	0.08	15.5	31.8	0.65	1460	0.88	0.01
ZZ59792		1.42	33.6	3.84	5.68	0.10	0.07	0.06	0.050	0.05	12.9	22.3	0.29	775	1.10	<0.01
ZZ59793		2.00	40.6	3.85	3.24	0.10	0.08	0.14	0.046	0.08	9.3	17.7	0.30	852	0.58	0.01
ZZ59794		3.24	39.9	3.18	2.35	0.13	0.07	0.12	0.046	0.08	20.6	8.7	0.19	386	0.38	0.01
ZZ59795		7.82	30.6	3.49	3.60	0.13	0.09	0.04	0.044	0.10	27.3	15.8	0.32	328	0.39	<0.01
ZZ59796		5.00	38.7	3.86	4.63	0.10	0.11	0.10	0.045	0.09	16.9	26.7	0.57	356	0.96	0.01
ZZ59797		5.50	30.9	2.04	2.47	0.08	0.08	0.19	0.027	0.05	13.0	10.6	0.27	324	0.52	0.01
ZZ59798		4.67	42.8	2.53	3.39	0.05	0.07	0.21	0.035	0.06	8.8	13.9	0.32	455	1.08	<0.01
ZZ59799		1.39	40.0	3.17	3.25	0.07	0.06	0.10	0.042	0.08	8.5	15.8	0.28	366	0.63	<0.01
ZZ59800		1.94	55.4	4.60	5.22	0.07	0.07	0.05	0.041	0.06	11.4	30.7	0.57	556	0.94	<0.01
ZZ59801		1.78	38.4	3.24	4.60	<0.05	0.05	0.09	0.042	0.08	7.5	20.1	0.35	304	0.79	<0.01
ZZ59802		1.99	37.3	3.63	4.07	<0.05	0.08	0.08	0.038	0.08	7.7	22.8	0.53	428	0.70	<0.01
ZZ59803		1.33	31.6	3.00	4.68	<0.05	0.05	0.12	0.028	0.06	9.2	20.8	0.45	552	0.65	<0.01
ZZ59804		1.70	43.6	4.30	6.04	<0.05	0.07	0.13	0.049	0.08	9.7	34.9	0.56	535	0.75	<0.01
ZZ59805		2.05	23.4	3.43	2.72	0.06	0.09	4.28	0.025	0.07	12.1	12.9	4.29	2410	0.54	<0.01
ZZ59806		1.31	19.7	3.17	5.55	<0.05	<0.02	0.07	0.027	0.05	8.4	16.7	0.29	275	1.11	<0.01
ZZ59807		2.00	36.5	4.26	6.52	0.05	0.02	0.07	0.045	0.08	9.4	31.2	0.56	620	1.22	<0.01
ZZ59808		1.86	45.3	5.19	5.09	0.07	0.07	2.49	0.042	0.08	17.7	20.2	0.66	2510	0.97	<0.01
ZZ59809		2.29	13.3	2.54	6.18	<0.05	0.02	0.09	0.030	0.07	9.8	25.6	0.36	242	0.63	<0.01
ZZ59810		2.38	37.9	3.88	7.63	<0.05	0.05	0.05	0.036	0.12	4.4	28.0	0.33	1040	0.68	<0.01
ZZ59811		1.93	23.0	3.87	6.18	0.05	0.02	0.15	0.042	0.09	11.6	32.7	0.53	741	1.18	<0.01
ZZ67931		0.67	21.6	3.13	1.63	<0.05	0.06	1.02	0.024	0.06	8.4	3.7	4.87	1420	1.06	0.01
ZZ67932		1.30	16.2	3.87	5.36	0.07	0.03	0.82	0.032	0.05	17.5	13.1	0.44	1200	1.64	<0.01
ZZ67933		0.83	14.3	4.62	3.48	0.09	0.05	1.05	0.030	0.04	26.2	6.9	3.63	3410	1.27	0.01
ZZ67934		0.42	14.2	2.77	2.03	<0.05	0.07	0.53	0.023	0.04	8.9	4.6	4.84	1600	1.16	0.01
ZZ67935		0.51	13.2	2.43	1.50	0.05	0.04	0.40	0.017	0.04	9.3	3.6	6.74	1750	0.83	0.01
ZZ67936		0.68	15.0	3.42	2.47	0.05	0.06	0.63	0.023	0.05	12.5	5.5	4.47	1960	0.87	0.01
ZZ67937		0.70	23.0	3.37	2.61	0.07	0.03	0.24	0.034	0.07	10.8	7.8	2.75	1280	0.92	<0.01
ZZ67938		2.41	34.3	3.27	1.23	<0.05	0.06	0.04	0.039	0.11	5.1	2.4	0.06	393	0.54	<0.01
ZZ67939		1.20	21.4	3.06	3.85	<0.05	0.02	0.03	0.035	0.07	6.9	9.5	0.14	239	1.19	<0.01
ZZ67940		1.38	12.1	2.68	5.08	<0.05	<0.02	0.03	0.030	0.06	8.6	11.9	0.21	390	1.08	<0.01
ZZ67941		1.38	32.1	4.14	1.27	0.05	0.02	0.05	0.043	0.06	7.7	6.1	0.05	423	0.62	<0.01
ZZ67942		0.75	27.2	3.21	2.70	0.06	0.06	0.06	0.041	0.07	11.6	9.7	0.22	455	0.78	<0.01
ZZ67943		1.79	36.5	3.86	4.94	0.05	0.07	0.04	0.042	0.07	8.0	32.6	0.41	494	0.80	<0.01

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59785		1.12	10.8	180	15.1	13.6	<0.001	0.02	0.29	3.3	0.3	0.9	32.2	<0.01	0.05	3.2
ZZ59786		0.60	33.7	310	24.6	14.5	<0.001	0.02	0.40	5.7	0.6	0.6	10.5	<0.01	0.09	3.4
ZZ59787		0.59	30.6	680	15.5	8.2	<0.001	0.07	0.57	5.9	1.2	0.4	85.7	<0.01	0.06	1.3
ZZ59788		0.69	31.9	610	16.6	13.3	<0.001	0.05	0.67	7.4	1.3	0.5	53.1	<0.01	0.07	1.7
ZZ59789		0.65	26.1	410	16.9	11.3	<0.001	0.02	0.30	5.3	0.7	0.7	26.7	<0.01	0.08	2.5
ZZ59790		0.51	41.1	480	19.0	9.2	<0.001	0.03	0.62	9.6	0.9	0.4	42.3	<0.01	0.08	4.2
ZZ59791		0.38	42.9	640	23.4	9.3	<0.001	0.02	0.51	11.1	1.2	0.4	32.5	0.01	0.10	3.9
ZZ59792		0.97	29.5	470	18.0	11.6	<0.001	0.03	0.38	6.5	0.9	0.6	16.2	0.01	0.06	3.9
ZZ59793		0.24	37.0	510	21.8	9.5	<0.001	0.04	0.24	8.4	1.1	0.5	33.8	<0.01	0.05	2.8
ZZ59794		0.21	29.1	720	22.9	9.7	<0.001	0.07	0.19	6.0	1.0	0.3	40.0	0.01	0.03	1.8
ZZ59795		0.34	29.2	590	13.8	14.9	<0.001	0.04	0.17	8.5	0.9	0.4	26.7	0.01	0.03	4.4
ZZ59796		0.42	31.1	430	15.4	12.9	<0.001	0.04	0.31	7.9	1.2	0.5	47.8	<0.01	0.04	4.0
ZZ59797		0.35	18.7	800	10.9	9.1	<0.001	0.11	0.30	3.9	1.8	0.3	130.5	0.01	0.03	0.8
ZZ59798		0.30	23.2	1040	15.2	10.0	<0.001	0.13	0.46	3.2	1.5	0.4	103.5	<0.01	0.07	0.6
ZZ59799		0.21	26.8	670	19.7	8.0	<0.001	0.07	0.40	4.9	0.9	0.4	100.0	<0.01	0.07	1.5
ZZ59800		0.23	36.3	340	24.4	8.2	<0.001	0.01	0.53	6.8	0.8	0.5	13.0	<0.01	0.11	4.3
ZZ59801		0.37	22.6	860	12.3	11.9	<0.001	0.08	0.43	4.3	0.4	0.5	66.2	<0.01	0.12	1.2
ZZ59802		0.30	26.2	560	17.5	14.4	<0.001	0.03	0.40	5.1	0.3	0.4	27.0	<0.01	0.08	2.5
ZZ59803		0.49	22.1	1080	14.0	10.1	<0.001	0.08	0.49	3.2	0.5	0.4	58.0	<0.01	0.08	0.9
ZZ59804		0.41	28.3	570	20.0	12.2	<0.001	0.01	0.47	4.8	0.2	0.5	12.9	<0.01	0.09	2.9
ZZ59805		0.24	24.8	820	54.1	10.9	0.001	0.02	0.46	5.0	0.5	0.4	30.9	<0.01	0.05	2.7
ZZ59806		0.71	14.0	700	13.6	12.2	<0.001	0.02	0.43	1.6	<0.2	0.6	7.6	<0.01	0.05	0.6
ZZ59807		0.60	28.5	830	18.5	13.5	<0.001	0.04	0.70	2.7	0.4	0.6	8.4	<0.01	0.08	1.1
ZZ59808		0.39	35.1	1100	51.6	10.9	<0.001	0.03	0.69	6.8	0.9	0.5	16.7	<0.01	0.09	3.0
ZZ59809		0.68	18.9	830	11.0	17.1	<0.001	0.02	0.25	2.6	0.3	0.7	13.9	<0.01	0.03	0.9
ZZ59810		0.73	25.0	590	22.0	20.5	<0.001	0.02	0.29	3.8	<0.2	1.1	6.7	<0.01	0.04	2.8
ZZ59811		1.10	33.1	440	25.1	13.8	<0.001	0.01	0.64	3.8	<0.2	0.7	12.5	<0.01	0.04	3.3
ZZ67931		0.14	25.1	710	151.5	5.4	<0.001	0.03	1.22	3.8	1.5	0.4	57.0	<0.01	0.05	2.3
ZZ67932		0.69	31.6	790	164.5	10.3	<0.001	0.02	1.11	3.4	0.6	0.6	13.9	<0.01	0.06	1.4
ZZ67933		0.27	20.4	1530	204	7.9	<0.001	0.05	1.40	4.7	1.2	0.5	36.3	0.01	0.08	1.2
ZZ67934		0.23	16.6	1270	115.5	5.6	<0.001	0.06	1.17	2.4	0.6	0.4	42.6	<0.01	0.05	0.8
ZZ67935		0.17	16.0	720	104.0	4.8	<0.001	0.02	0.95	3.0	0.7	0.3	56.8	<0.01	0.05	1.5
ZZ67936		0.23	19.5	1090	141.5	7.7	<0.001	0.04	1.04	3.0	0.9	0.4	44.0	<0.01	0.06	1.2
ZZ67937		0.26	25.7	720	98.9	8.1	<0.001	0.02	0.73	4.3	0.9	0.4	38.1	<0.01	0.07	2.2
ZZ67938		0.09	50.8	420	40.8	7.6	<0.001	0.02	0.63	4.6	<0.2	0.4	29.3	<0.01	0.04	3.0
ZZ67939		0.36	20.9	390	21.7	13.6	<0.001	<0.01	0.41	2.7	<0.2	0.5	16.3	<0.01	0.07	1.5
ZZ67940		0.40	13.8	640	15.6	15.7	<0.001	0.02	0.37	1.0	<0.2	0.7	11.0	<0.01	0.04	0.3
ZZ67941		0.12	37.5	410	40.5	7.0	<0.001	0.01	0.54	4.7	0.7	0.3	22.9	<0.01	0.06	4.5
ZZ67942		0.29	28.6	850	23.1	8.0	<0.001	0.03	0.39	4.4	1.2	0.6	321	<0.01	0.08	2.0
ZZ67943		0.32	35.4	280	24.8	11.9	<0.001	<0.01	0.35	6.1	0.5	0.6	24.4	<0.01	0.08	4.5

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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59785		0.018	0.15	0.57	65	0.15	3.63	29	1.0
ZZ59786		0.005	0.16	0.51	55	0.06	3.79	73	2.4
ZZ59787		0.010	0.11	1.37	38	0.11	13.10	71	1.4
ZZ59788		0.016	0.13	1.79	46	0.12	13.00	95	1.3
ZZ59789		0.006	0.10	0.75	52	0.10	4.58	56	1.0
ZZ59790		0.011	0.14	0.84	45	0.10	14.25	90	3.1
ZZ59791		0.008	0.14	1.04	44	0.07	19.65	92	2.2
ZZ59792		0.010	0.18	0.88	48	0.13	8.02	42	2.0
ZZ59793		<0.005	0.19	3.07	21	0.05	16.25	78	1.7
ZZ59794		<0.005	0.15	3.78	24	0.05	19.35	81	1.4
ZZ59795		0.005	0.21	2.17	28	0.05	19.30	79	2.1
ZZ59796		0.007	0.22	2.71	37	0.05	10.75	74	2.9
ZZ59797		0.005	0.25	6.39	21	0.06	12.60	38	2.3
ZZ59798		0.005	0.52	7.00	26	0.06	12.85	63	2.2
ZZ59799		<0.005	0.11	1.85	22	<0.05	13.20	76	2.2
ZZ59800		<0.005	0.13	0.95	38	0.05	11.00	87	2.3
ZZ59801		0.006	0.14	1.76	34	0.07	8.94	60	1.4
ZZ59802		0.007	0.14	0.99	31	0.06	6.92	103	2.4
ZZ59803		0.011	0.19	2.30	35	0.12	8.74	56	1.4
ZZ59804		0.006	0.34	0.95	43	0.14	5.18	68	1.8
ZZ59805		<0.005	3.19	2.41	19	0.16	14.65	193	2.3
ZZ59806		0.015	0.17	0.63	44	0.19	2.69	48	<0.5
ZZ59807		0.014	0.19	0.91	45	0.13	5.08	94	0.7
ZZ59808		0.011	2.09	1.83	38	0.22	18.55	171	1.6
ZZ59809		0.010	0.31	0.73	37	0.17	7.58	97	0.5
ZZ59810		0.010	0.17	0.68	29	0.08	4.94	81	1.3
ZZ59811		0.019	0.50	0.77	44	0.21	5.59	106	0.6
ZZ67931		<0.005	0.63	1.76	17	0.06	14.35	892	1.7
ZZ67932		0.020	0.38	1.68	53	0.25	13.05	683	0.9
ZZ67933		0.006	0.59	2.76	30	0.12	26.8	809	1.4
ZZ67934		0.005	0.29	1.57	25	0.09	14.00	469	1.8
ZZ67935		0.005	0.33	1.66	17	0.08	12.95	418	1.1
ZZ67936		0.006	0.42	1.61	23	0.12	16.25	523	1.5
ZZ67937		0.005	0.27	1.49	23	0.09	16.05	304	1.0
ZZ67938		<0.005	0.22	0.70	10	<0.05	8.92	148	1.9
ZZ67939		0.005	0.14	0.79	34	0.08	5.55	73	0.6
ZZ67940		0.013	0.15	0.82	38	0.17	3.99	59	<0.5
ZZ67941		<0.005	0.10	0.89	12	<0.05	11.70	98	0.8
ZZ67942		0.005	0.13	2.38	22	0.06	18.75	84	1.5
ZZ67943		<0.005	0.15	1.20	29	0.05	9.44	93	2.0



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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67944		0.38	0.003	0.06	1.80	25.6	<0.2	<10	290	1.56	0.37	0.16	0.24	34.1	16.0	31
ZZ67945		0.34	0.002	0.04	1.83	18.0	<0.2	<10	140	1.25	0.37	0.08	0.16	19.65	17.1	26
ZZ67946		0.40	0.001	0.02	1.42	12.4	<0.2	<10	460	2.27	0.39	0.13	0.08	15.00	16.1	21
ZZ67947		0.37	<0.001	0.02	1.06	7.6	<0.2	<10	290	1.35	0.45	0.06	0.03	4.69	18.2	28
ZZ67948		0.36	0.002	0.02	1.01	6.8	<0.2	<10	230	1.68	0.38	0.08	0.02	7.54	15.8	28
ZZ67949		0.33	0.002	0.08	0.74	32.3	<0.2	<10	120	1.54	0.33	0.38	0.08	17.20	13.1	12
ZZ67950		0.37	0.002	0.07	0.80	39.6	<0.2	<10	210	1.44	0.35	0.26	0.10	15.15	12.9	14
ZZ67951		0.34	<0.001	0.01	1.17	9.0	<0.2	<10	820	1.46	0.25	0.12	0.01	6.15	20.3	14
ZZ67952		0.32	0.004	0.03	1.57	38.2	<0.2	<10	140	1.24	0.34	0.10	0.27	36.7	17.0	27
ZZ67953		0.36	0.001	0.03	1.42	21.7	<0.2	<10	80	0.79	0.38	0.02	0.12	10.55	23.0	33
ZZ67954		0.47	0.003	0.06	1.69	112.0	<0.2	<10	160	1.16	0.33	0.14	0.17	25.7	15.9	27
ZZ67955		0.42	0.003	0.08	2.25	53.8	<0.2	<10	250	1.72	0.32	0.15	0.28	42.3	17.6	33
ZZ67956		0.39	0.002	0.06	1.52	39.6	<0.2	<10	390	1.54	0.62	0.10	0.08	18.40	30.2	30
ZZ67957		0.34	0.002	0.04	1.70	47.5	<0.2	<10	80	0.82	0.35	0.07	0.21	20.5	16.8	31
ZZ67958		0.33	0.002	0.02	1.72	22.7	<0.2	<10	110	1.48	0.51	0.14	0.08	20.1	16.1	36
ZZ67959		0.42	0.004	0.14	1.61	120.0	<0.2	<10	200	1.10	0.29	0.27	0.35	33.6	18.9	27
ZZ67960		0.35	0.003	0.05	1.86	67.3	<0.2	<10	190	1.13	0.31	0.18	0.24	42.4	14.1	30
ZZ67961		0.30	0.002	0.04	1.67	21.6	<0.2	<10	160	0.55	0.28	0.18	0.14	29.2	7.7	24
ZZ67962		0.38	0.004	0.03	2.36	25.4	<0.2	<10	170	1.15	0.30	0.10	0.30	35.5	22.6	31
ZZ67963		0.37	0.004	0.09	2.43	66.4	<0.2	<10	150	1.60	0.33	0.14	0.45	47.1	23.0	33
ZZ67964		0.38	0.003	0.19	1.26	84.8	<0.2	<10	150	1.09	0.28	4.34	0.38	25.1	16.0	19
ZZ67965		0.34	0.002	2.89	0.59	563	<0.2	<10	140	1.15	0.07	16.25	14.80	19.70	5.0	7
ZZ67966		0.35	0.003	0.24	1.70	101.5	<0.2	<10	220	1.01	0.26	2.52	0.52	24.9	11.6	26
ZZ67967		0.33	0.002	0.16	1.17	28.7	<0.2	<10	110	1.03	0.31	0.95	0.12	29.1	15.6	21
ZZ67968		0.29	0.002	0.07	1.39	18.0	<0.2	<10	80	1.15	0.34	0.53	0.21	34.4	13.6	22
ZZ67969		0.42	0.005	0.12	1.31	116.5	<0.2	<10	110	1.14	0.28	1.48	0.27	24.0	18.7	22
ZZ67970		0.33	0.008	0.16	1.13	54.7	<0.2	<10	160	1.18	0.25	1.08	0.18	33.4	13.0	23
ZZ67971		0.26	0.009	0.11	1.10	110.0	<0.2	<10	150	1.24	0.22	1.49	0.17	37.1	13.4	25
ZZ67972		0.32	0.002	0.05	1.13	11.5	<0.2	<10	320	1.26	0.22	1.87	0.11	42.4	11.6	27
ZZ67973		0.35	0.002	0.09	1.27	13.0	<0.2	<10	220	1.46	0.34	1.80	0.21	14.50	18.3	19
ZZ67974		0.32	0.003	0.09	0.83	14.0	<0.2	<10	130	1.34	0.46	4.46	0.19	26.2	26.5	14
ZZ67975		0.41	0.005	0.14	1.58	46.8	<0.2	<10	210	1.04	0.31	0.90	0.31	26.2	20.0	26
ZZ67976		0.44	0.005	0.14	1.66	57.9	<0.2	<10	130	1.04	0.31	0.47	0.31	25.4	19.1	27
ZZ67977		0.30	0.005	0.17	1.44	30.2	<0.2	<10	170	0.82	0.26	1.26	0.44	19.85	16.1	23
ZZ67978		0.23	0.004	0.13	1.53	73.3	<0.2	<10	180	1.06	0.31	0.88	0.28	21.5	20.6	24
ZZ67979		0.29	0.004	0.14	1.19	66.5	<0.2	<10	190	0.86	0.28	1.35	0.23	20.8	16.0	19
ZZ67980		0.39	0.003	0.04	1.81	42.6	<0.2	<10	160	0.90	0.30	0.34	0.19	25.6	20.2	28
ZZ67981		0.32	0.004	0.12	1.43	35.2	<0.2	<10	140	0.92	0.30	0.84	0.27	24.3	18.1	23
ZZ67982		0.39	0.004	0.11	1.02	11.9	<0.2	<10	120	0.92	0.26	1.08	0.17	12.70	17.5	17
ZZ67983		0.39	0.004	0.15	1.65	21.0	<0.2	<10	220	1.18	0.31	0.63	0.28	23.5	19.1	27

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ67944		2.12	31.1	3.50	5.81	0.06	0.03	0.11	0.041	0.08	12.8	22.4	0.53	1380	1.00	<0.01
ZZ67945		2.43	31.9	3.63	6.03	<0.05	0.06	0.05	0.042	0.11	7.3	28.0	0.47	719	1.34	<0.01
ZZ67946		3.47	37.6	3.32	5.71	0.06	<0.02	0.03	0.035	0.12	6.3	14.9	0.26	1550	1.45	<0.01
ZZ67947		2.78	27.1	3.75	4.54	<0.05	0.02	0.01	0.034	0.16	1.6	15.3	0.36	653	0.93	<0.01
ZZ67948		2.76	26.6	3.56	4.13	<0.05	<0.02	0.02	0.028	0.16	2.2	11.8	0.33	932	0.77	<0.01
ZZ67949		1.14	26.3	2.93	2.45	0.05	0.05	0.04	0.038	0.11	5.4	12.1	0.20	776	0.82	<0.01
ZZ67950		0.69	25.4	3.32	2.56	<0.05	0.04	0.03	0.036	0.10	6.0	9.3	0.18	1220	1.88	<0.01
ZZ67951		2.08	117.0	1.53	4.21	<0.05	0.06	0.01	0.030	0.12	1.9	25.9	0.44	643	1.94	<0.01
ZZ67952		1.92	38.4	3.72	5.40	0.05	<0.02	0.05	0.033	0.09	13.0	31.2	0.57	750	1.48	<0.01
ZZ67953		3.08	22.3	4.58	5.61	0.08	0.02	0.04	0.043	0.15	4.5	21.1	0.42	1180	1.13	0.01
ZZ67954		2.53	36.7	4.37	5.67	0.10	0.04	1.01	0.042	0.09	9.4	29.1	0.44	884	1.18	0.01
ZZ67955		2.87	39.2	4.52	6.11	0.11	0.09	0.15	0.052	0.10	13.3	37.1	0.62	821	1.07	0.01
ZZ67956		2.26	49.2	4.03	7.19	0.09	0.04	0.09	0.043	0.10	6.7	26.4	0.44	2000	1.23	0.01
ZZ67957		2.37	22.6	3.87	6.38	0.08	0.03	0.07	0.040	0.09	9.3	29.2	0.42	932	1.18	0.01
ZZ67958		1.38	37.3	4.43	8.94	0.09	0.03	0.08	0.056	0.08	7.7	29.9	0.50	652	0.85	0.01
ZZ67959		1.94	50.7	4.46	5.15	0.12	0.07	0.66	0.041	0.08	14.3	26.9	0.64	1200	1.05	0.01
ZZ67960		1.72	23.8	3.88	5.65	0.10	0.06	0.25	0.043	0.08	13.7	28.1	0.57	666	1.12	0.01
ZZ67961		1.83	22.3	3.02	6.34	0.08	0.03	0.09	0.030	0.05	13.3	19.9	0.32	301	1.30	0.01
ZZ67962		2.74	56.1	4.78	5.58	0.11	0.10	0.18	0.046	0.10	13.6	44.8	0.73	1020	0.84	0.01
ZZ67963		1.94	56.4	5.59	5.82	0.15	0.13	1.08	0.054	0.11	17.3	53.2	0.79	1420	0.70	0.01
ZZ67964		2.64	51.3	4.13	4.11	0.11	0.08	1.93	0.038	0.13	13.3	22.0	2.75	1420	0.63	0.01
ZZ67965		0.43	10.0	2.75	1.88	0.07	0.06	65.8	0.020	0.02	10.5	5.1	9.66	5340	0.50	0.02
ZZ67966		1.80	30.4	3.48	5.52	0.08	0.07	1.37	0.039	0.08	13.3	26.8	1.70	914	0.99	0.01
ZZ67967		1.33	38.3	3.98	3.67	0.09	0.08	0.08	0.041	0.09	11.0	25.5	0.41	611	0.83	0.01
ZZ67968		1.51	41.5	4.05	4.51	0.09	0.07	0.06	0.051	0.08	13.0	26.0	0.30	430	0.80	0.01
ZZ67969		3.35	61.2	4.02	4.22	0.10	0.09	0.20	0.041	0.08	11.1	28.2	0.84	673	0.97	0.01
ZZ67970		6.45	51.5	3.33	3.69	0.10	0.11	0.20	0.041	0.09	16.9	23.1	0.55	356	0.81	0.01
ZZ67971		7.63	43.5	3.24	3.90	0.10	0.10	0.25	0.040	0.10	18.5	28.0	1.00	343	0.69	0.01
ZZ67972		11.25	28.6	2.72	4.34	0.11	0.13	0.06	0.035	0.15	22.4	22.7	0.88	243	0.36	0.01
ZZ67973		0.60	53.1	3.99	3.93	0.09	0.08	0.09	0.047	0.10	8.1	22.2	0.40	631	1.38	0.01
ZZ67974		1.67	84.2	4.97	2.76	0.13	0.11	0.11	0.068	0.12	16.2	13.0	0.20	864	0.77	0.01
ZZ67975		1.25	64.4	4.95	4.98	0.11	0.06	0.16	0.051	0.08	12.6	26.1	0.59	944	1.03	0.01
ZZ67976		2.16	92.0	5.23	5.38	0.13	0.10	0.31	0.048	0.09	12.7	32.2	0.76	488	1.03	0.01
ZZ67977		0.98	50.1	3.69	4.47	0.09	0.06	0.20	0.042	0.07	9.1	21.8	0.46	678	1.19	0.01
ZZ67978		1.24	82.9	4.91	4.80	0.11	0.12	0.32	0.053	0.09	9.6	26.1	0.60	512	1.07	0.01
ZZ67979		1.35	53.9	3.91	3.64	0.09	0.07	0.16	0.044	0.07	8.8	15.0	0.34	692	1.60	0.01
ZZ67980		1.60	61.2	4.94	5.55	0.09	0.06	0.10	0.050	0.07	9.9	34.2	0.69	582	0.84	<0.01
ZZ67981		0.91	68.7	4.39	4.60	0.11	0.08	0.19	0.041	0.07	11.5	29.0	0.60	680	0.84	0.01
ZZ67982		1.23	55.6	4.75	3.23	0.09	0.08	0.08	0.046	0.11	6.5	18.7	0.37	403	0.91	0.01
ZZ67983		1.33	60.1	4.51	5.34	0.11	0.10	0.18	0.048	0.09	11.7	35.3	0.70	604	0.97	0.01



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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67944		0.76	30.8	680	22.9	12.9	<0.001	0.01	0.56	4.7	0.2	0.7	13.6	<0.01	0.05	4.2
ZZ67945		0.65	27.4	560	21.3	15.7	<0.001	0.01	0.59	3.5	<0.2	0.7	10.1	<0.01	0.08	2.4
ZZ67946		0.63	16.9	560	21.6	22.9	<0.001	0.01	0.40	2.7	0.4	0.9	8.0	<0.01	0.04	1.6
ZZ67947		0.88	25.7	180	24.4	19.8	<0.001	<0.01	0.40	3.8	0.4	1.1	8.1	<0.01	0.06	4.6
ZZ67948		0.50	21.7	160	22.5	19.5	<0.001	<0.01	0.30	4.4	<0.2	1.0	8.5	<0.01	0.02	4.4
ZZ67949		0.20	26.9	340	17.5	8.3	<0.001	0.01	0.40	5.8	<0.2	0.5	11.5	<0.01	0.04	3.7
ZZ67950		0.27	25.3	290	23.0	7.8	<0.001	<0.01	0.43	6.7	0.6	0.5	9.8	<0.01	0.06	4.1
ZZ67951		0.10	29.8	170	12.3	12.3	<0.001	<0.01	0.25	5.0	0.3	0.8	16.2	<0.01	0.03	4.3
ZZ67952		0.70	41.1	520	22.1	10.6	<0.001	<0.01	0.78	4.2	0.4	0.6	14.0	<0.01	0.08	3.8
ZZ67953		1.30	27.9	280	28.4	23.5	<0.001	0.02	0.42	4.5	0.4	1.0	6.0	<0.01	0.05	5.3
ZZ67954		0.66	32.7	680	23.8	17.1	<0.001	0.03	0.44	4.7	0.8	0.7	14.3	<0.01	0.07	2.3
ZZ67955		0.79	41.4	610	22.2	16.8	<0.001	0.03	0.48	6.5	0.8	0.6	14.2	<0.01	0.06	3.9
ZZ67956		0.51	33.7	290	52.6	16.1	<0.001	0.02	0.22	7.1	0.4	1.1	15.0	<0.01	0.05	5.2
ZZ67957		1.09	24.7	620	25.6	17.8	<0.001	0.03	0.44	3.4	0.6	0.8	9.8	<0.01	0.05	2.4
ZZ67958		0.45	34.8	380	24.3	12.4	<0.001	0.02	0.14	6.4	0.5	1.1	16.2	<0.01	0.04	5.2
ZZ67959		0.51	37.8	630	33.9	10.8	<0.001	0.02	0.55	6.9	0.9	0.5	18.7	<0.01	0.08	4.5
ZZ67960		0.91	33.2	560	28.5	13.9	<0.001	0.02	0.50	4.3	0.7	0.6	15.5	<0.01	0.05	2.5
ZZ67961		1.05	18.8	450	16.1	10.7	<0.001	0.02	0.43	3.4	0.6	0.7	13.6	<0.01	0.05	2.1
ZZ67962		0.46	44.8	490	23.8	12.3	<0.001	0.02	0.49	6.0	0.8	0.4	12.1	<0.01	0.08	4.5
ZZ67963		0.23	45.0	790	28.1	12.2	<0.001	0.02	0.37	10.0	1.2	0.4	14.9	0.01	0.08	7.2
ZZ67964		0.15	35.3	850	33.1	11.4	<0.001	0.03	0.27	8.8	0.9	0.5	38.5	<0.01	0.06	5.3
ZZ67965		0.13	15.0	1400	698	3.1	<0.001	0.06	1.87	2.8	1.0	0.4	83.6	<0.01	0.04	0.9
ZZ67966		0.60	25.8	770	38.3	11.8	<0.001	0.04	0.37	5.7	0.8	0.6	25.0	<0.01	0.06	2.3
ZZ67967		0.28	33.0	440	26.3	9.7	<0.001	0.05	0.37	5.9	0.9	0.4	51.4	<0.01	0.08	3.1
ZZ67968		0.44	32.5	440	20.5	10.5	<0.001	0.04	0.35	6.8	0.8	0.5	27.3	<0.01	0.09	3.9
ZZ67969		0.27	36.8	520	19.5	8.2	<0.001	0.06	0.46	7.6	1.4	0.5	71.4	<0.01	0.07	2.3
ZZ67970		0.33	32.3	520	16.5	10.8	<0.001	0.05	0.36	7.5	1.4	0.4	50.7	<0.01	0.05	2.6
ZZ67971		0.31	33.1	570	14.4	13.5	<0.001	0.07	0.31	8.4	2.4	0.4	48.2	<0.01	0.04	2.7
ZZ67972		0.65	32.7	780	12.9	19.1	<0.001	0.06	0.22	7.5	0.9	0.5	48.5	<0.01	0.03	3.8
ZZ67973		0.33	42.7	590	22.5	8.7	<0.001	0.08	0.48	7.7	1.3	0.6	95.9	<0.01	0.08	1.3
ZZ67974		0.11	44.9	360	28.1	9.7	<0.001	0.04	0.34	13.5	1.3	0.6	140.5	0.01	0.15	5.8
ZZ67975		0.41	39.0	520	22.6	7.9	<0.001	0.04	0.77	8.1	1.2	0.4	65.8	0.01	0.10	1.7
ZZ67976		0.30	43.6	590	19.5	7.4	<0.001	0.03	0.68	11.1	1.1	0.4	38.6	<0.01	0.12	4.2
ZZ67977		0.48	33.9	820	19.0	8.9	<0.001	0.07	0.80	5.4	1.5	0.4	83.7	<0.01	0.08	1.0
ZZ67978		0.27	42.2	470	24.3	7.2	<0.001	0.04	0.71	11.4	1.1	0.4	68.5	<0.01	0.10	3.2
ZZ67979		0.46	34.6	580	28.3	7.4	<0.001	0.06	0.60	7.9	1.3	0.4	103.0	<0.01	0.08	1.3
ZZ67980		0.37	38.4	270	18.2	8.4	<0.001	0.02	0.45	7.2	0.6	0.4	30.5	<0.01	0.10	3.5
ZZ67981		0.33	36.8	550	19.7	6.6	<0.001	0.05	0.57	8.8	1.1	0.4	54.4	0.01	0.08	2.5
ZZ67982		0.26	34.2	400	19.0	8.0	<0.001	0.06	0.40	9.4	1.1	0.5	67.0	<0.01	0.04	2.0
ZZ67983		0.44	38.5	600	20.0	9.4	<0.001	0.05	0.36	11.0	1.2	0.5	34.5	<0.01	0.06	3.6

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67944		0.018	0.23	1.43	42	0.23	8.75	77	0.9
ZZ67945		0.010	0.18	0.71	39	0.15	4.13	72	1.5
ZZ67946		0.012	0.16	0.82	30	0.25	8.60	50	<0.5
ZZ67947		0.017	0.12	0.64	21	0.47	5.05	55	<0.5
ZZ67948		0.015	0.13	0.67	21	0.40	6.56	52	<0.5
ZZ67949		<0.005	0.11	0.45	16	0.05	11.15	66	1.2
ZZ67950		<0.005	0.10	0.66	19	0.07	11.15	69	1.3
ZZ67951		0.005	0.12	0.66	10	0.05	8.84	63	2.5
ZZ67952		0.022	0.19	0.80	42	0.22	6.16	95	0.5
ZZ67953		0.016	0.18	0.67	34	0.40	3.42	78	0.8
ZZ67954		0.010	0.25	1.24	45	0.19	7.29	79	0.7
ZZ67955		0.009	0.45	0.94	48	0.17	9.44	95	2.0
ZZ67956		0.013	0.27	1.10	33	0.17	7.45	82	1.3
ZZ67957		0.015	0.44	0.67	42	0.21	3.93	91	0.7
ZZ67958		0.008	0.21	0.97	32	0.06	10.45	98	0.6
ZZ67959		0.010	0.86	1.12	45	0.16	11.00	123	1.9
ZZ67960		0.015	0.57	0.89	44	0.28	8.32	92	1.3
ZZ67961		0.017	0.25	0.69	55	0.37	5.01	55	0.6
ZZ67962		0.006	0.27	0.68	42	0.08	6.56	82	2.8
ZZ67963		<0.005	1.10	1.22	41	0.08	16.45	90	4.0
ZZ67964		<0.005	2.71	1.61	29	0.08	15.80	93	2.9
ZZ67965		<0.005	2.82	5.31	9	1.43	16.35	893	1.6
ZZ67966		0.009	3.24	0.96	44	0.17	10.85	134	1.5
ZZ67967		<0.005	0.25	1.70	33	0.05	11.75	77	2.2
ZZ67968		0.005	0.18	1.17	36	0.08	11.70	72	2.0
ZZ67969		0.005	0.43	3.76	35	0.08	14.35	75	2.2
ZZ67970		0.005	0.36	1.76	29	0.07	16.30	64	2.6
ZZ67971		<0.005	1.06	1.16	29	0.05	15.20	92	2.6
ZZ67972		0.011	0.19	2.48	22	0.09	17.75	77	3.4
ZZ67973		<0.005	0.10	1.60	29	0.06	15.60	71	1.4
ZZ67974		<0.005	0.17	0.67	26	<0.05	27.9	93	3.1
ZZ67975		0.009	0.14	1.06	46	0.10	14.75	85	1.2
ZZ67976		0.008	0.13	0.78	50	0.07	15.10	97	3.2
ZZ67977		0.007	0.12	1.96	41	0.13	12.15	105	1.2
ZZ67978		<0.005	0.14	0.85	45	0.06	15.50	106	3.3
ZZ67979		0.007	0.19	1.43	36	0.10	15.40	63	1.6
ZZ67980		0.005	0.12	0.71	48	0.06	6.34	78	1.9
ZZ67981		0.007	0.10	0.99	40	0.08	15.35	79	1.9
ZZ67982		<0.005	0.13	0.93	26	<0.05	14.30	85	1.8
ZZ67983		0.006	0.13	1.39	43	0.08	17.70	96	2.3



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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ67984		0.37	0.005	0.10	1.37	72.7	<0.2	<10	160	1.24	0.29	1.01	0.19	27.5	17.4	25
ZZ67985		0.33	0.003	0.13	1.34	43.9	<0.2	<10	210	1.19	0.26	1.27	0.26	25.5	16.5	24
ZZ67986		0.30	0.004	0.12	1.50	34.2	<0.2	<10	140	1.10	0.33	0.50	0.26	25.7	21.4	25
ZZ67987		0.36	0.003	0.10	1.17	194.0	<0.2	<10	130	0.99	0.31	0.29	0.15	21.0	14.2	20
ZZ67988		0.37	0.003	0.23	0.89	270	<0.2	<10	100	0.80	0.15	8.64	1.24	18.45	9.7	13
ZZ67989		0.37	0.004	0.24	1.56	80.7	<0.2	<10	140	0.85	0.27	1.73	0.56	31.8	10.7	25
ZZ67990		0.40	0.004	0.22	1.33	113.5	<0.2	<10	140	1.35	0.32	2.26	0.41	35.4	17.9	22
ZZ67991		0.37	0.003	0.28	1.60	178.0	<0.2	<10	240	1.24	0.27	1.03	0.34	36.8	11.7	25
ZZ67992		0.34	0.004	0.02	2.28	17.3	<0.2	<10	120	1.25	0.33	0.04	0.14	39.0	22.0	31
ZZ67993		0.40	0.003	0.05	1.82	35.0	<0.2	<10	210	0.94	0.29	0.27	0.15	24.5	12.5	28
ZZ67994		0.37	0.002	0.09	1.51	195.0	<0.2	<10	140	1.45	0.44	0.17	0.60	29.7	19.2	25
ZZ67995		0.35	0.004	0.14	1.49	125.5	<0.2	<10	190	1.43	0.37	2.06	0.40	25.0	19.1	25
ZZ67996		0.40	0.005	0.16	1.47	87.4	<0.2	<10	210	1.04	0.29	0.30	0.25	27.8	14.2	27
ZZ67997		0.36	0.002	0.41	2.08	7.3	<0.2	<10	80	1.46	0.48	0.09	0.08	13.15	16.9	41
ZZ67998		0.45	0.004	0.09	2.03	45.7	<0.2	<10	270	1.44	0.34	0.13	0.17	27.2	16.0	32
ZZ67999		0.39	0.002	0.05	1.45	51.1	<0.2	<10	90	0.58	0.33	0.05	0.14	17.80	11.2	24
ZZ68000		0.43	0.003	0.02	1.72	47.0	<0.2	<10	170	1.01	0.37	0.21	0.11	21.3	17.2	29
ZZ56501		0.37	0.003	0.04	1.77	47.7	<0.2	<10	200	1.31	0.33	0.13	0.20	32.1	16.7	28
ZZ56502		0.41	0.003	0.06	1.80	25.8	<0.2	<10	160	0.96	0.35	0.13	0.15	27.4	12.7	29
ZZ56503		0.41	0.003	0.05	1.57	21.4	<0.2	<10	140	0.74	0.34	0.11	0.15	22.1	11.9	27
ZZ56504		0.37	0.003	0.06	1.75	56.7	<0.2	<10	150	0.82	0.31	0.10	0.22	28.3	13.8	28
ZZ56505		0.46	0.004	0.10	1.73	89.9	<0.2	<10	230	1.28	0.29	0.19	0.30	29.2	18.5	27
ZZ56506		0.42	0.004	0.16	1.24	82.2	<0.2	<10	170	1.07	0.33	0.24	0.28	28.9	15.5	21
ZZ56507		0.41	0.003	0.11	1.03	95.7	<0.2	<10	190	1.39	0.41	0.22	0.20	31.6	17.1	18
ZZ56508		0.33	0.002	0.10	1.55	18.5	<0.2	<10	160	0.83	0.27	0.19	0.15	28.1	12.5	25

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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ67984		4.59	56.5	3.92	4.48	0.11	0.10	0.18	0.042	0.10	13.1	29.7	0.67	617	0.73	0.01
ZZ67985		3.31	51.4	3.74	4.30	0.09	0.09	0.19	0.041	0.09	11.8	26.7	0.57	1070	0.79	0.01
ZZ67986		2.07	72.4	4.62	4.94	0.12	0.12	0.20	0.044	0.11	11.6	35.3	0.65	816	1.00	0.01
ZZ67987		8.26	44.9	4.30	3.76	0.10	0.09	0.17	0.036	0.10	10.3	25.2	0.47	415	0.83	<0.01
ZZ67988		1.11	25.0	3.62	2.94	0.08	0.06	3.65	0.023	0.06	9.5	16.8	5.10	2090	0.59	0.01
ZZ67989		1.34	27.8	3.21	4.17	0.06	0.06	0.70	0.028	0.06	15.0	17.4	1.20	778	1.20	<0.01
ZZ67990		1.79	58.5	4.23	3.82	0.09	0.08	1.58	0.042	0.08	19.7	24.9	1.60	1520	0.65	<0.01
ZZ67991		1.43	29.4	5.74	4.85	0.09	0.06	2.85	0.033	0.06	25.7	18.4	0.69	3250	1.22	<0.01
ZZ67992		1.83	69.4	4.93	5.89	0.08	0.06	0.16	0.041	0.09	16.1	46.0	0.77	834	0.63	<0.01
ZZ67993		1.76	29.1	3.77	5.37	0.05	0.05	0.09	0.038	0.06	11.0	24.1	0.50	553	1.02	<0.01
ZZ67994		2.54	43.4	4.89	5.04	0.05	0.07	0.34	0.042	0.09	9.0	24.9	0.38	1070	0.82	<0.01
ZZ67995		3.49	53.6	4.13	5.42	0.06	0.07	1.02	0.042	0.14	9.9	23.6	1.36	1230	0.90	<0.01
ZZ67996		1.67	49.9	4.01	4.58	0.07	0.05	0.59	0.039	0.07	13.4	22.2	0.57	829	0.99	<0.01
ZZ67997		1.08	29.5	4.30	8.98	<0.05	0.04	0.02	0.047	0.08	5.2	32.8	0.57	450	0.77	<0.01
ZZ67998		2.52	29.0	3.92	6.14	<0.05	0.06	0.10	0.037	0.09	11.1	25.5	0.52	678	1.25	<0.01
ZZ67999		2.55	25.4	3.40	6.10	<0.05	0.02	0.07	0.031	0.08	7.7	15.8	0.26	563	1.19	<0.01
ZZ68000		3.04	47.2	4.00	5.70	<0.05	0.03	0.20	0.043	0.09	8.7	27.9	0.50	833	1.10	<0.01
ZZ56501		1.73	38.7	3.88	5.14	0.06	0.06	0.16	0.040	0.07	11.9	22.7	0.51	912	1.05	<0.01
ZZ56502		2.49	27.7	3.44	5.71	0.05	0.04	0.06	0.039	0.08	11.9	22.8	0.46	492	1.23	<0.01
ZZ56503		2.19	24.1	3.30	5.89	<0.05	0.02	0.05	0.040	0.07	8.8	17.0	0.34	583	1.35	<0.01
ZZ56504		2.22	32.5	4.14	5.36	0.05	0.04	0.11	0.045	0.07	8.7	25.8	0.43	947	1.07	<0.01
ZZ56505		1.79	58.4	4.69	4.88	0.07	0.04	0.29	0.042	0.07	11.9	26.7	0.59	1080	0.94	<0.01
ZZ56506		1.43	50.6	4.36	3.73	0.07	0.06	0.56	0.037	0.07	13.8	19.8	0.46	822	0.74	<0.01
ZZ56507		1.63	41.1	4.11	3.26	0.06	0.06	0.88	0.036	0.08	13.6	14.9	0.30	1120	0.72	<0.01
ZZ56508		1.48	32.4	3.27	4.79	0.05	0.06	0.10	0.032	0.05	13.1	31.2	0.56	624	0.73	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ67984		0.28	37.3	540	18.0	10.7	<0.001	0.05	0.32	9.3	1.6	0.5	36.4	<0.01	0.07	3.0
ZZ67985		0.34	34.8	620	17.2	10.1	<0.001	0.06	0.40	7.2	1.5	0.4	56.0	<0.01	0.07	1.9
ZZ67986		0.30	43.2	720	21.2	8.2	<0.001	0.04	0.53	9.3	0.9	0.5	32.6	<0.01	0.09	5.0
ZZ67987		0.26	31.6	430	18.0	12.9	<0.001	0.02	0.33	7.0	0.8	0.4	19.5	<0.01	0.07	4.1
ZZ67988		0.23	20.5	850	43.0	9.0	<0.001	0.06	0.34	4.0	0.9	0.3	41.7	<0.01	0.05	1.2
ZZ67989		0.72	29.8	820	34.2	7.8	0.001	0.03	0.73	5.1	0.6	0.5	22.0	<0.01	0.04	3.1
ZZ67990		0.18	35.9	810	35.5	7.2	<0.001	0.03	0.41	12.1	1.2	0.4	25.5	<0.01	0.08	4.9
ZZ67991		0.62	25.8	1120	50.3	9.5	<0.001	0.03	0.44	8.5	1.2	0.6	16.8	0.01	0.06	4.8
ZZ67992		0.19	35.5	210	20.2	9.3	<0.001	0.02	0.49	7.2	0.9	0.5	7.2	<0.01	0.09	5.1
ZZ67993		0.67	23.7	780	16.9	11.1	<0.001	0.04	0.44	4.0	0.4	0.6	15.1	<0.01	0.05	1.9
ZZ67994		0.37	34.3	400	32.7	12.9	<0.001	0.03	0.33	6.4	0.2	0.7	12.3	<0.01	0.03	4.1
ZZ67995		0.19	35.5	460	32.9	14.8	0.001	0.02	0.30	8.5	0.6	0.8	30.6	<0.01	0.03	5.6
ZZ67996		0.44	32.7	550	23.6	8.8	<0.001	0.02	0.60	7.1	1.1	0.5	19.0	<0.01	0.06	3.3
ZZ67997		0.29	36.4	250	19.0	9.9	<0.001	0.02	0.11	5.3	<0.2	1.4	11.7	<0.01	0.02	5.0
ZZ67998		0.88	29.9	580	20.5	15.7	<0.001	0.03	0.55	4.6	0.6	0.8	13.1	<0.01	0.03	2.7
ZZ67999		0.78	17.7	500	18.0	18.2	0.001	0.03	0.44	2.8	0.5	0.9	8.2	<0.01	0.04	1.5
ZZ68000		0.56	29.0	420	23.3	17.4	<0.001	0.02	0.46	4.2	0.3	0.8	15.2	<0.01	0.05	2.5
ZZ56501		0.61	33.3	540	22.1	12.0	<0.001	0.02	0.52	5.0	0.6	0.7	13.0	<0.01	0.04	3.4
ZZ56502		0.90	26.3	680	16.1	15.4	<0.001	0.03	0.56	3.9	0.5	0.7	13.0	<0.01	0.02	2.6
ZZ56503		0.72	21.1	840	18.9	13.7	<0.001	0.04	0.51	2.4	<0.2	0.8	12.3	<0.01	0.03	1.0
ZZ56504		0.72	25.5	650	22.3	12.8	<0.001	0.03	0.50	3.9	0.2	0.6	11.1	<0.01	0.05	1.9
ZZ56505		0.33	34.2	570	25.1	9.7	<0.001	0.03	0.51	6.6	0.8	0.5	15.5	<0.01	0.09	1.8
ZZ56506		0.26	32.7	410	25.2	7.6	0.001	0.02	0.49	7.2	0.3	0.5	17.4	<0.01	0.08	4.4
ZZ56507		0.21	32.8	290	29.2	8.1	<0.001	0.02	0.31	6.4	0.4	0.6	18.0	<0.01	0.01	6.3
ZZ56508		0.46	25.1	720	14.3	10.1	<0.001	0.03	0.41	3.9	0.7	0.5	15.0	<0.01	0.04	2.2





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**CERTIFICATE OF ANALYSIS WH12158786**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ67984		<0.005	0.49	1.53	34	0.06	15.55	84	2.6
ZZ67985		0.005	0.30	2.49	35	0.07	13.30	70	2.1
ZZ67986		0.007	0.22	0.88	38	0.05	12.90	92	4.0
ZZ67987		0.005	0.47	1.12	30	0.05	10.40	67	2.8
ZZ67988		0.005	3.59	2.08	22	0.19	11.50	249	1.4
ZZ67989		0.016	1.41	1.08	39	0.21	11.35	118	1.5
ZZ67990		0.005	2.05	2.03	29	0.09	26.6	94	2.4
ZZ67991		0.012	4.44	2.64	40	0.21	23.8	70	1.8
ZZ67992		<0.005	0.12	0.73	46	<0.05	6.92	74	2.3
ZZ67993		0.010	0.21	1.07	47	0.14	6.49	83	1.5
ZZ67994		0.005	0.62	0.81	32	0.13	8.98	117	2.0
ZZ67995		0.005	0.92	0.90	32	0.07	13.15	137	2.7
ZZ67996		0.013	0.47	0.89	44	0.14	11.25	100	1.6
ZZ67997		0.006	0.10	0.52	32	<0.05	6.15	89	1.4
ZZ67998		0.012	0.36	0.94	47	0.20	6.67	93	1.5
ZZ67999		0.011	0.40	0.56	44	0.18	3.17	68	<0.5
ZZ68000		0.008	0.31	0.79	46	0.15	5.44	80	0.9
ZZ56501		0.012	0.28	0.98	43	0.16	7.42	86	1.5
ZZ56502		0.016	0.26	0.87	47	0.22	5.94	81	1.0
ZZ56503		0.012	0.19	0.77	44	0.19	4.72	70	<0.5
ZZ56504		0.011	0.42	0.84	49	0.18	5.30	91	0.9
ZZ56505		0.007	0.44	1.16	48	0.11	11.50	107	1.1
ZZ56506		0.006	0.39	0.97	36	0.11	12.95	92	2.1
ZZ56507		<0.005	0.62	1.17	25	0.06	12.80	86	2.0
ZZ56508		0.011	0.13	1.08	37	0.15	8.11	74	1.6

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Project: ATAC- Regional Area B,D (Dale)

**CERTIFICATE OF ANALYSIS WH12158786**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12162742**

Project: ATAC- Regional Area B,D- Dales  
 P.O. No.: Soil 18  
 This report is for 6 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area B,D- Dales

**CERTIFICATE OF ANALYSIS WH12162742**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56101		0.26	0.001	0.07	1.68	56.3	<0.2	<10	120	0.73	0.31	0.07	0.23	22.3	12.7	27
ZZ56102		0.22	0.002	0.05	1.86	37.1	<0.2	<10	150	0.68	0.28	0.11	0.11	26.0	11.9	27
ZZ56103		0.21	0.004	0.25	2.17	54.0	<0.2	<10	320	1.32	0.28	0.33	0.16	31.2	11.0	32
ZZ56104		0.25	0.002	0.10	1.78	229	<0.2	<10	160	1.00	0.28	0.08	0.38	27.2	15.9	26
ZZ56105		0.23	0.004	0.15	2.16	52.6	<0.2	<10	470	1.45	0.37	0.28	0.10	18.85	15.9	31
ZZ56106		0.21	0.002	0.06	1.91	33.6	<0.2	<10	320	1.35	0.45	0.11	0.10	11.40	15.8	34

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Project: ATAC- Regional Area B,D- Dales

**CERTIFICATE OF ANALYSIS WH12162742**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ56101		2.09	43.3	4.43	5.66	<0.05	0.04	0.03	0.037	0.08	8.3	27.0	0.54	661	1.15	0.01
ZZ56102		1.77	30.3	3.96	5.84	<0.05	0.04	0.20	0.041	0.05	9.3	24.9	0.43	529	1.22	0.01
ZZ56103		2.31	42.6	3.88	6.14	0.05	0.08	0.73	0.042	0.07	15.0	18.2	0.44	872	1.08	0.01
ZZ56104		1.79	34.7	4.91	5.16	<0.05	0.03	0.91	0.040	0.06	8.7	24.9	0.43	1180	1.10	0.01
ZZ56105		3.83	33.5	3.89	7.74	<0.05	0.07	0.26	0.044	0.13	7.9	22.3	0.36	1000	0.87	0.01
ZZ56106		1.71	26.1	4.10	7.55	<0.05	0.05	0.09	0.039	0.09	4.6	21.1	0.51	661	0.61	0.01

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Project: ATAC- Regional Area B,D- Dales

**CERTIFICATE OF ANALYSIS WH12162742**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ56101		0.33	23.4	970	19.1	14.7	<0.001	0.05	0.55	2.9	0.5	0.5	7.8	<0.01	0.08	1.4
ZZ56102		0.61	22.1	550	18.9	10.1	0.001	0.02	0.49	3.5	0.7	0.6	10.2	<0.01	0.06	2.3
ZZ56103		0.56	22.5	1910	17.8	13.8	<0.001	0.09	0.56	5.5	1.6	0.7	23.2	<0.01	0.05	1.4
ZZ56104		0.45	26.9	890	30.3	11.3	<0.001	0.03	0.56	3.7	0.8	0.6	9.3	<0.01	0.06	1.8
ZZ56105		0.40	21.2	850	29.1	26.5	<0.001	0.03	0.29	8.2	0.8	1.1	23.0	<0.01	0.04	3.3
ZZ56106		0.39	24.3	440	26.5	13.1	<0.001	0.03	0.25	5.1	0.6	1.0	12.8	<0.01	0.03	3.8

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Project: ATAC- Regional Area B,D- Dales

**CERTIFICATE OF ANALYSIS WH12162742**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56101		0.009	0.36	1.00	45	0.08	4.62	87	1.3
ZZ56102		0.013	0.43	0.70	51	0.16	4.16	68	0.9
ZZ56103		0.015	0.50	3.68	51	0.15	18.80	108	2.0
ZZ56104		0.009	1.43	0.72	47	0.18	5.78	157	0.9
ZZ56105		<0.005	0.74	1.16	47	0.13	15.85	76	1.5
ZZ56106		0.006	0.29	0.71	35	0.10	6.45	87	1.2

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**CERTIFICATE OF ANALYSIS WH12162742**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12162743**

Project: ATAC- Regional Area D (San)  
 P.O. No.: Silt 13  
 This report is for 13 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12162743**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027147		0.18	0.003	0.23	1.61	34.5	<0.2	<10	510	1.63	0.39	0.43	0.40	13.15	10.7	24
DD027148		0.21	0.008	0.27	0.54	239	<0.2	<10	380	0.69	0.21	7.76	1.59	10.15	9.6	9
DD027149		0.19	0.003	0.37	1.05	8.6	<0.2	10	270	0.99	0.28	2.48	0.62	9.67	9.2	19
DD027150		0.23	0.003	0.05	0.38	7.5	<0.2	<10	50	0.90	0.46	2.27	0.05	14.45	17.2	7
ZZ69235		0.21	0.002	0.10	0.97	11.9	<0.2	<10	110	1.82	0.53	0.24	0.07	24.7	24.3	14
ZZ69236		0.16	0.002	0.13	0.94	15.5	<0.2	<10	200	1.20	0.38	1.66	0.21	19.85	16.0	16
DD027435		0.25	0.001	0.16	1.08	12.8	<0.2	<10	200	1.01	0.25	0.83	0.48	13.95	11.9	19
DD027436		0.19	0.002	0.20	1.14	14.8	<0.2	<10	220	1.24	0.27	0.94	0.60	14.10	12.2	20
DD027437		0.20	0.002	0.23	1.18	11.1	<0.2	<10	200	1.28	0.31	0.92	0.92	13.90	11.6	20
DD027438		0.23	0.001	0.18	1.26	10.0	<0.2	<10	220	1.55	0.40	0.50	0.42	13.85	12.6	21
DD027439		0.31	0.002	0.11	1.25	12.0	<0.2	<10	370	1.45	0.42	0.28	0.30	14.90	15.4	21
DD027440		0.28	0.001	0.20	1.43	13.8	<0.2	<10	370	1.49	0.39	0.33	0.31	15.30	12.9	24
DD027441		0.17	0.002	0.10	1.46	9.6	<0.2	<10	420	1.65	0.33	0.31	0.37	15.95	10.3	25

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12162743**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
DD027147		5.45	28.8	3.05	4.60	<0.05	0.09	0.40	0.037	0.07	6.1	20.8	0.38	254	0.96	0.02
DD027148		3.58	19.8	2.83	1.55	<0.05	0.06	22.8	0.022	0.09	4.9	5.0	4.66	852	0.57	0.02
DD027149		7.37	58.0	2.42	2.94	<0.05	0.09	0.57	0.027	0.07	4.7	19.1	0.43	711	1.23	0.02
DD027150		11.30	42.0	3.40	1.37	<0.05	0.02	0.04	0.029	0.13	6.2	7.3	0.22	636	0.46	0.01
ZZ69235		6.13	60.0	3.88	3.24	0.11	0.10	0.76	0.041	0.09	10.0	23.2	0.26	994	0.67	<0.01
ZZ69236		4.13	31.7	3.37	3.07	0.09	0.09	1.55	0.037	0.08	8.3	15.7	0.89	736	0.67	<0.01
DD027435		2.18	31.1	2.97	3.33	0.09	0.07	0.18	0.032	0.08	6.0	20.3	0.58	425	1.15	<0.01
DD027436		2.64	44.4	3.06	3.42	0.09	0.09	0.19	0.033	0.09	6.2	20.5	0.54	592	1.36	<0.01
DD027437		2.99	37.6	3.05	3.64	0.09	0.08	0.21	0.035	0.09	6.1	21.0	0.54	499	1.11	<0.01
DD027438		5.19	42.6	3.27	4.34	0.09	0.09	0.16	0.041	0.09	6.1	20.7	0.45	466	0.87	<0.01
DD027439		3.06	36.4	3.69	4.68	0.09	0.08	0.08	0.043	0.07	6.0	18.2	0.39	1120	1.10	<0.01
DD027440		3.05	37.4	3.56	5.16	0.10	0.11	0.12	0.043	0.07	7.1	18.5	0.40	608	1.37	<0.01
DD027441		5.00	29.4	2.83	5.14	0.09	0.06	0.05	0.033	0.09	6.4	23.1	0.42	588	1.08	<0.01

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12162743**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD027147		0.34	22.7	630	38.8	14.3	0.001	0.23	0.52	5.3	1.5	0.6	25.0	<0.01	0.02	2.8
DD027148		0.14	17.3	720	187.0	12.5	0.001	0.06	7.39	3.7	1.2	0.4	63.6	<0.01	0.05	1.7
DD027149		0.21	24.2	1190	17.5	24.2	0.003	0.20	0.98	2.7	5.1	0.5	139.0	<0.01	0.02	0.9
DD027150		0.07	29.2	270	16.5	14.0	<0.001	0.05	0.26	3.3	0.2	0.4	168.0	<0.01	0.03	2.9
ZZ69235		0.32	34.1	410	36.8	11.1	<0.001	0.02	0.53	5.6	0.5	0.5	43.7	0.01	0.05	4.1
ZZ69236		0.40	25.4	720	39.1	13.3	0.001	0.06	0.53	4.8	1.0	0.5	49.9	0.01	0.05	2.1
DD027435		0.47	24.7	580	20.1	9.3	0.001	0.07	0.54	4.5	1.0	0.4	48.9	<0.01	0.04	2.9
DD027436		0.48	28.4	600	20.8	10.3	0.001	0.07	0.63	5.2	1.4	0.5	70.0	<0.01	0.04	2.5
DD027437		0.48	27.0	610	21.9	11.5	0.002	0.10	0.54	4.9	1.5	0.5	67.6	<0.01	0.04	2.6
DD027438		0.50	28.1	540	25.7	13.7	0.001	0.07	0.38	5.3	0.9	0.6	47.5	<0.01	0.04	2.8
DD027439		0.44	24.9	470	27.1	11.2	<0.001	0.02	0.39	5.0	0.5	0.5	31.6	<0.01	0.04	2.7
DD027440		0.49	24.8	640	24.9	13.3	0.001	0.03	0.51	4.7	0.8	0.6	34.7	<0.01	0.05	2.1
DD027441		0.64	23.5	870	17.5	24.4	<0.001	0.06	0.38	4.0	0.5	0.6	46.6	<0.01	0.04	1.4





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**CERTIFICATE OF ANALYSIS WH12162743**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027147		<0.005	0.14	1.66	29	0.07	11.80	119	2.3
DD027148		<0.005	2.01	1.38	12	0.05	8.20	1540	1.7
DD027149		<0.005	0.12	10.25	15	<0.05	10.25	104	2.6
DD027150		<0.005	0.09	1.03	9	<0.05	6.83	64	0.7
ZZ69235		0.006	0.10	1.14	15	0.05	12.50	80	2.6
ZZ69236		0.007	0.12	1.29	18	0.06	10.80	115	2.3
DD027435		0.006	0.09	0.83	27	0.10	9.07	114	2.0
DD027436		0.006	0.11	1.22	30	0.07	11.15	118	2.3
DD027437		0.006	0.09	1.29	25	0.08	10.00	127	1.9
DD027438		0.006	0.08	1.40	22	0.06	11.40	124	2.0
DD027439		0.007	0.08	1.25	26	0.05	8.73	105	2.0
DD027440		0.006	0.09	1.71	30	0.08	10.10	111	2.4
DD027441		0.009	0.10	1.24	31	0.10	9.03	119	1.2

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Project: ATAC- Regional Area D (Sian)

**CERTIFICATE OF ANALYSIS WH12162743**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12162744**

Project: ATAC- Regional Area B,D- Dale  
 P.O. No.: Silt 14  
 This report is for 13 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12162744**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027128		0.35	0.015	0.20	1.18	697	<0.2	20	170	1.36	0.22	3.56	1.05	18.45	14.4	23
DD027129		0.44	0.010	0.18	1.10	587	<0.2	10	160	1.10	0.22	1.39	0.54	21.0	15.5	21
DD027130		0.43	0.013	2.66	0.88	87.5	<0.2	<10	1920	1.46	0.23	0.64	21.8	27.4	19.6	18
DD027131		0.45	0.004	1.22	0.54	38.3	<0.2	<10	880	0.53	0.13	1.57	1.26	7.84	4.8	18
DD027132		0.56	0.005	0.97	0.36	33.3	<0.2	<10	990	0.51	0.12	1.00	0.52	3.98	4.7	16
DD027240		0.29	0.003	0.42	1.33	12.0	<0.2	<10	200	1.34	0.35	0.67	0.11	12.95	14.2	24
DD027241		0.43	0.002	0.17	1.22	16.4	<0.2	10	270	1.23	0.26	1.18	0.29	11.65	9.7	23
DD027242		0.20	0.017	0.20	1.23	766	<0.2	20	160	1.40	0.23	2.36	0.87	18.90	16.0	22
DD027244		0.39	0.005	0.18	1.09	586	<0.2	10	180	1.04	0.22	2.48	0.65	17.25	13.1	20
ZZ69237		0.25	0.004	0.50	0.64	339	<0.2	<10	340	0.77	0.18	4.71	3.52	16.90	10.1	13
DD027264		0.43	0.013	0.22	1.18	672	<0.2	20	170	1.34	0.21	3.17	1.04	16.60	14.6	23
DD027265		0.47	0.015	0.26	1.17	796	<0.2	10	150	1.39	0.22	1.57	0.75	22.4	16.3	23
DD027266		0.42	0.002	0.16	0.93	108.5	<0.2	10	120	0.79	0.18	5.11	0.27	14.05	7.9	18



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**CERTIFICATE OF ANALYSIS WH12162744**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
DD027128		28.8	58.2	3.50	3.08	0.12	0.13	1.15	0.044	0.15	8.8	21.6	1.23	368	1.10	<0.01
DD027129		22.4	51.2	3.53	3.26	0.10	0.12	0.79	0.040	0.11	9.2	22.2	0.70	377	0.91	<0.01
DD027130		11.30	120.0	2.97	2.95	0.18	0.09	0.98	0.051	0.14	9.3	5.8	0.14	730	19.45	0.05
DD027131		1.15	43.4	1.54	1.69	0.07	0.07	0.62	0.024	0.06	3.9	5.6	0.14	182	1.54	0.02
DD027132		0.81	38.5	1.91	1.21	0.07	0.08	0.17	0.027	0.07	2.3	2.2	0.06	173	2.94	0.02
DD027240		3.92	37.0	3.20	4.53	0.13	0.14	0.14	0.038	0.14	6.3	20.8	0.39	684	0.51	<0.01
DD027241		1.72	41.6	2.89	4.01	0.08	0.08	0.22	0.032	0.11	5.8	23.0	0.49	576	0.74	<0.01
DD027242		25.5	60.4	3.59	3.31	0.11	0.14	1.25	0.045	0.23	8.7	24.4	0.83	343	1.04	<0.01
DD027244		31.1	46.8	3.60	2.89	0.11	0.14	0.36	0.043	0.10	7.5	20.4	1.11	452	0.93	<0.01
ZZ69237		4.54	43.0	2.84	2.00	0.09	0.08	0.49	0.033	0.09	7.6	9.8	1.65	510	7.56	0.01
DD027264		26.8	60.0	3.41	3.09	0.12	0.13	1.05	0.039	0.15	7.8	21.5	0.85	406	1.16	<0.01
DD027265		29.5	58.1	3.76	3.22	0.12	0.13	1.41	0.043	0.13	10.1	22.0	0.72	363	1.06	<0.01
DD027266		15.85	35.7	2.65	2.67	0.09	0.08	0.21	0.029	0.10	10.1	17.0	0.52	231	0.58	<0.01

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**CERTIFICATE OF ANALYSIS WH12162744**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
DD027128		0.28	40.3	780	24.0	14.9	<0.001	0.11	0.99	7.8	10.3	0.5	248	0.01	0.11	1.8
DD027129		0.29	36.0	630	24.2	12.7	<0.001	0.05	0.71	6.3	2.3	0.4	145.0	<0.01	0.08	2.1
DD027130		0.30	167.0	2390	44.7	21.9	0.006	0.27	9.40	3.1	17.2	0.7	96.7	0.01	0.19	0.6
DD027131		0.32	51.5	660	13.4	6.6	0.006	0.09	0.96	4.9	4.4	0.4	131.5	0.01	0.06	1.1
DD027132		0.15	59.0	1100	9.1	6.8	0.008	0.07	0.87	4.9	5.6	0.3	136.5	0.01	0.07	1.2
DD027240		0.51	24.5	740	34.0	23.0	<0.001	0.07	0.26	7.5	1.7	0.9	52.2	0.01	0.04	3.2
DD027241		0.88	18.6	820	18.5	16.2	<0.001	0.17	0.42	5.1	2.0	0.8	115.5	0.01	0.05	1.6
DD027242		0.28	44.2	790	25.7	15.8	<0.001	0.10	1.02	8.2	5.0	0.5	201	0.01	0.10	2.0
DD027244		0.29	28.8	830	21.5	13.8	0.001	0.11	0.63	5.9	3.5	0.5	187.0	<0.01	0.09	1.6
ZZ69237		0.28	54.6	860	47.7	8.2	0.003	0.06	3.28	4.9	2.7	0.4	78.8	0.01	0.07	3.4
DD027264		0.29	41.8	810	24.0	14.9	<0.001	0.11	0.96	7.9	10.3	0.5	261	0.01	0.11	1.7
DD027265		0.30	42.2	760	28.0	16.0	<0.001	0.07	0.86	7.6	4.3	0.5	184.0	0.01	0.08	2.4
DD027266		0.40	21.9	700	15.1	19.5	<0.001	0.11	0.40	8.4	1.6	0.4	116.5	0.01	0.06	1.4





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**CERTIFICATE OF ANALYSIS WH12162744**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
DD027128		<0.005	3.74	6.65	29	0.14	15.20	188	4.7
DD027129		<0.005	2.57	3.37	31	0.09	11.55	162	3.8
DD027130		<0.005	4.72	6.69	278	0.20	44.3	982	0.7
DD027131		0.005	0.28	1.92	38	0.08	18.25	145	2.2
DD027132		<0.005	0.10	2.28	40	0.05	20.6	215	2.4
DD027240		<0.005	0.16	2.33	25	0.11	24.1	84	2.5
DD027241		0.011	0.15	2.68	30	0.19	11.50	75	1.8
DD027242		<0.005	3.96	5.15	30	0.14	14.75	186	5.3
DD027244		<0.005	2.94	3.20	29	0.07	12.10	162	3.7
ZZ69237		0.005	0.62	1.69	80	0.12	15.95	398	2.9
DD027264		<0.005	4.09	9.24	29	0.12	14.75	188	5.0
DD027265		<0.005	3.32	4.63	31	0.13	14.20	211	4.8
DD027266		0.007	0.54	1.02	22	0.07	16.75	87	2.2

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**CERTIFICATE OF ANALYSIS WH12162744**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12162745**

Project: ATAC- Regional Area D MooseLake  
 P.O. No.: Silt 15  
 This report is for 2 Silt samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12162745**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	2	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD020508		0.16	0.006	0.50	0.10	>10000	<0.2	<10	370	9.15	0.01	>25.0	5.35	14.90	4.6	3
DD020509		0.31	0.010	0.57	0.17	>10000	<0.2	<10	700	9.45	0.02	>25.0	3.10	12.20	4.1	4

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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12162745**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
DD020508		3.91	5.8	4.25	0.61	0.19	0.05	1.38	0.021	0.02	6.6	2.9	0.71	4470	1.01	0.03
DD020509		10.45	6.7	7.85	0.90	0.27	0.06	0.96	0.033	0.03	5.4	3.4	0.32	5630	0.86	0.03

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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12162745**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD020508		0.42	132.0	690	89.8	1.9	0.001	0.24	12.65	2.6	5.7	<0.2	240	<0.01	0.21	<0.2
DD020509		0.47	91.6	650	58.7	3.1	0.001	0.20	5.53	3.0	2.4	<0.2	259	0.01	0.24	0.2

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 Account: RCM

Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12162745**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 TI ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD020508		<0.005	10.25	1.63	67	3.85	14.55	4210	2.8
DD020509		<0.005	19.85	1.74	35	6.24	13.60	3760	4.5

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Project: ATAC- Regional Area D MooseLake

**CERTIFICATE OF ANALYSIS WH12162745**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12163817**

Project: ATAC- Regional- Area J  
 P.O. No.: R14  
 This report is for 19 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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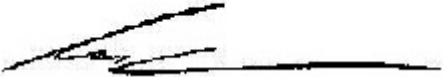
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Sb- XRF10	Fusion XRF - Sb Ore Grade	XRF
ME- XRF10	Fusion XRF - Ore Grade	XRF
OA- GRA06	LOI for ME- XRF06	WST- SIM
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12163817**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842635		0.42	<0.01	0.06	0.07	14	20	0.08	0.46	19.60	0.13	8.33	1.6	3	0.64	1.7
L842636		0.55	<0.01	0.13	0.03	61	10	0.13	15.20	18.25	0.13	8.83	1.8	4	0.49	2.6
L842637		0.86	0.01	0.06	0.04	9	10	0.09	2.77	18.50	0.09	10.45	1.5	4	0.59	1.4
L842638		0.35	0.07	0.69	0.08	682	20	0.21	15.25	15.55	0.07	4.27	1.9	8	0.08	7.2
L842639		0.50	0.77	2.54	0.25	4290	20	<0.05	56.8	0.48	0.03	0.43	0.5	13	0.17	8.6
L842640		0.42	0.01	0.05	0.05	51	10	0.15	3.89	14.40	0.11	6.25	1.2	6	0.57	2.1
L842641		0.36	0.84	4.11	0.35	4850	20	0.05	20.2	0.28	0.04	0.37	0.5	16	0.22	9.8
L842642		0.44	0.40	2.86	0.37	3400	40	0.05	231	0.40	0.05	0.65	0.5	22	0.20	5.5
L842643		0.86	0.64	3.34	0.40	4600	20	0.07	69.8	0.68	0.04	0.53	0.5	15	0.24	9.2
L843501		0.32	0.01	0.17	0.07	101.5	90	0.06	0.35	0.48	0.12	2.99	1.1	3	0.15	71.2
L843502		0.26	2.13	2.52	0.05	1065	20	<0.05	1.68	0.56	0.04	0.96	0.3	12	0.17	6.0
L842861		0.53	0.15	1.37	0.10	51	10	<0.05	18.05	21.4	0.02	1.25	0.5	5	<0.05	2.8
L842862		0.33	0.09	0.27	0.53	680	20	2.20	59.3	11.35	0.60	23.5	5.3	46	0.23	52.8
L842863		0.34	0.23	0.46	0.14	813	20	0.07	54.5	14.90	0.07	4.29	1.2	7	0.12	3.8
L842864		0.38	1.12	3.64	0.31	2380	10	0.05	32.8	0.66	0.03	0.42	1.0	13	0.08	11.9
L842865		0.25	0.04	0.29	0.03	21	10	<0.05	4.86	16.90	0.02	9.94	0.4	10	0.16	2.6
L842866		0.22	1.28	3.63	0.30	2100	10	<0.05	48.4	0.27	<0.02	0.67	0.9	14	0.06	12.2
L842867		0.41	0.65	2.67	0.28	5000	30	0.05	64.6	0.11	0.04	0.31	0.5	15	0.16	9.0
L842868		0.34	0.02	0.31	0.05	295	30	0.33	12.40	19.90	0.11	3.79	1.2	4	0.14	3.4

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**CERTIFICATE OF ANALYSIS WH12163817**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842635		2.85	1.29	<0.05	0.1	0.02	0.191	0.02	3.5	2.3	9.67	8100	0.38	0.02	0.3	29.5
L842636		3.37	1.19	0.09	0.1	0.04	0.183	0.01	4.0	1.9	8.67	7290	0.65	0.01	0.4	36.2
L842637		2.36	1.26	<0.05	0.1	0.01	0.196	0.02	5.2	2.2	8.90	7410	0.34	0.01	0.4	28.2
L842638		13.90	0.48	0.25	0.1	0.11	0.131	0.02	2.1	0.3	0.44	3120	10.95	0.01	0.4	69.8
L842639		31.6	1.72	0.86	0.1	0.05	0.016	0.41	<0.5	0.5	0.17	281	19.90	0.07	1.3	14.0
L842640		3.17	0.55	0.07	0.1	0.02	0.130	0.01	2.9	2.8	7.13	5950	1.11	0.01	0.1	32.9
L842641		34.0	2.36	0.99	0.1	0.06	0.016	0.37	<0.5	0.6	0.13	325	23.4	0.09	1.5	19.2
L842642		23.4	2.22	0.62	0.1	0.14	0.016	0.71	<0.5	0.8	0.17	303	35.7	0.10	1.2	23.2
L842643		33.1	2.52	0.93	0.1	0.05	0.016	0.63	<0.5	0.6	0.12	191	26.6	0.10	1.5	12.3
L843501		0.36	0.34	0.31	<0.1	48.1	<0.005	0.01	69.0	13.2	0.01	57	0.13	<0.01	0.1	3.4
L843502		15.10	0.48	0.57	<0.1	0.55	0.014	0.01	1.6	0.7	0.02	36	0.67	0.01	0.6	12.5
L842861		0.85	0.50	<0.05	0.1	0.09	<0.005	0.02	0.9	<0.2	0.06	72	5.27	0.01	0.6	2.8
L842862		16.00	2.61	0.42	0.3	0.02	0.191	0.02	14.5	3.0	3.32	7160	35.8	0.01	0.8	226
L842863		8.77	0.73	0.21	0.1	0.03	0.054	0.03	2.3	0.5	0.18	819	24.9	0.01	0.5	34.1
L842864		34.7	2.07	0.95	0.2	0.07	0.012	0.13	<0.5	0.5	0.10	330	8.99	0.05	2.3	26.8
L842865		0.44	0.26	<0.05	<0.1	0.04	0.008	0.01	7.1	0.5	0.01	41	0.35	0.01	0.2	1.5
L842866		35.5	2.04	0.97	0.1	0.08	0.011	0.09	0.5	0.6	0.09	347	10.80	0.04	2.2	23.4
L842867		33.9	2.00	0.99	0.1	0.04	0.013	0.41	<0.5	0.6	0.09	221	28.4	0.07	1.8	17.9
L842868		4.00	0.61	0.08	0.1	0.4	0.016	0.01	3.0	1.4	6.09	2470	16.40	0.01	0.6	29.2



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Project: ATAC- Regional- Area J

**CERTIFICATE OF ANALYSIS WH12163817**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842635		130	3.1	1.6	<0.002	0.54	0.34	19.5	1	1.3	60.7	<0.05	<0.05	<0.2	<0.005	0.06
L842636		270	3.4	1.1	<0.002	1.24	1.05	13.8	11	1.3	59.2	<0.05	<0.05	<0.2	<0.005	0.08
L842637		60	2.7	1.4	<0.002	0.66	2.69	11.9	<1	1.3	63.7	<0.05	<0.05	<0.2	<0.005	0.05
L842638		1350	2.9	0.8	0.010	>10.0	1.25	3.0	14	1.4	95.0	<0.05	0.17	0.3	<0.005	1.40
L842639		1090	2.5	10.4	0.016	1.96	2.19	1.0	20	1.8	71.5	<0.05	0.15	<0.2	<0.005	1.13
L842640		480	2.9	1.2	<0.002	1.34	0.44	11.6	2	1.3	59.0	<0.05	<0.05	<0.2	<0.005	0.09
L842641		1200	3.6	9.7	0.021	2.02	2.83	1.2	22	2.0	60.2	<0.05	0.13	0.2	0.005	0.97
L842642		750	10.8	12.5	0.019	2.28	4.25	1.0	25	2.6	83.1	<0.05	0.19	<0.2	0.007	1.85
L842643		1790	5.5	12.9	0.022	2.90	7.80	1.3	24	2.7	121.5	<0.05	0.14	0.2	0.008	1.66
L843501		120	324	0.6	<0.002	>10.0	>10000	0.5	2	<0.2	38.8	<0.05	<0.05	<0.2	<0.005	1.74
L843502		10	4.5	0.5	0.006	>10.0	5660	0.2	97	1.7	3.3	<0.05	<0.05	<0.2	<0.005	0.04
L842861		20	5.3	0.6	0.015	>10.0	669	0.7	17	1.2	136.5	<0.05	0.09	<0.2	0.006	0.12
L842862		7050	3.0	1.2	0.012	5.63	36.0	7.4	8	13.1	51.9	<0.05	0.18	3.4	0.006	0.33
L842863		310	7.6	1.5	0.039	>10.0	137.0	2.7	21	1.4	66.6	<0.05	0.38	<0.2	<0.005	0.11
L842864		810	2.4	4.1	0.022	1.81	54.9	0.9	9	2.4	31.1	<0.05	0.12	<0.2	0.014	0.53
L842865		30	1.7	0.4	0.002	>10.0	9.19	0.6	<1	1.2	33.2	<0.05	<0.05	<0.2	<0.005	<0.02
L842866		860	3.2	3.0	0.023	1.56	7.89	0.9	10	2.4	20.3	<0.05	0.13	<0.2	0.011	0.50
L842867		1130	3.7	9.9	0.024	1.91	62.8	0.9	23	1.9	75.4	<0.05	0.19	<0.2	0.005	1.32
L842868		360	2.5	0.5	0.004	8.63	4.76	2.6	11	0.9	260	<0.05	0.08	<0.2	<0.005	0.16





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 Plus Appendix Pages  
 Finalized Date: 23- JUL- 2012  
 Account: RCM

Project: ATAC- Regional- Area J

**CERTIFICATE OF ANALYSIS WH12163817**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Sb- XRF10
		U	V	W	Y	Zn	Zr	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.01
L842635		2.0	79	0.2	36.5	93	1.6	
L842636		2.4	76	0.2	33.6	105	1.8	
L842637		0.9	73	0.2	33.8	66	1.5	
L842638		5.6	171	2.2	11.6	72	6.9	
L842639		2.7	122	2.2	0.8	39	6.7	
L842640		4.7	62	0.2	28.6	119	1.7	
L842641		2.2	163	3.1	0.6	52	6.2	
L842642		2.5	170	4.3	0.8	37	8.0	
L842643		2.5	183	3.2	0.5	39	8.6	
L843501		0.4	1	0.3	1.8	21	0.6	>50
L843502		0.3	30	2.0	0.8	5	1.1	
L842861		0.6	54	5.0	2.1	3	3.1	
L842862		31.6	325	4.2	63.7	489	17.3	
L842863		2.5	115	1.5	7.4	17	7.2	
L842864		5.1	148	5.8	0.6	110	9.9	
L842865		0.4	11	0.3	4.0	5	0.5	
L842866		3.4	148	5.8	0.5	86	9.1	
L842867		2.6	133	2.9	0.5	41	8.4	
L842868		2.1	72	1.5	11.2	64	4.0	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area J

**CERTIFICATE OF ANALYSIS WH12163817**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12168519**

Project: ATAC- Regional Area A,B  
 P.O. No.: R16  
 This report is for 45 Rock samples submitted to our lab in Whitehorse, YT, Canada on 25- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85%< 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Sb- XRF10	Fusion XRF - Sb Ore Grade	XRF
ME- XRF10	Fusion XRF - Ore Grade	XRF
OA- GRA06	LOI for ME- XRF06	WST- SIM
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843530		0.51	<0.01	<0.01	0.10	6	20	0.16	<0.01	22.4	0.05	1.13	0.5	5	<0.05	1.6
L843531		0.41	<0.01	0.04	1.91	29	100	0.59	0.09	10.10	0.16	16.20	14.6	19	2.25	19.0
L843532		0.66	<0.01	0.01	1.60	23	120	0.69	0.08	17.65	0.02	15.80	3.5	11	1.81	2.3
L843533		0.34	<0.01	0.02	0.29	7	40	0.47	0.02	21.8	0.22	3.83	1.1	5	0.39	4.3
L843534		0.40	<0.01	0.01	0.95	5	170	0.46	0.04	22.8	0.10	9.44	1.1	6	1.63	3.7
L843535		0.34	<0.01	0.01	0.08	25	20	0.13	0.04	23.2	0.11	1.49	3.5	2	0.06	1.8
L843536		0.54	<0.01	0.12	1.13	325	60	0.24	0.16	1.10	<0.02	25.5	4.3	27	1.08	40.0
L842893		0.29	0.01	0.21	3.95	466	230	2.47	0.14	0.45	0.42	27.6	27.0	43	11.35	332
L842894		0.36	<0.01	0.01	1.01	11.1	70	0.18	0.02	2.49	<0.02	11.15	1.6	14	0.35	3.1
L842895		0.46	<0.01	<0.01	0.48	9	70	0.38	0.03	27.0	0.10	9.60	1.2	5	0.56	4.2
L842896		0.30	<0.01	0.03	8.23	5.5	400	1.87	0.25	3.00	0.03	74.0	10.9	53	5.54	31.0
L842897		0.41	<0.01	0.02	1.94	5920	380	0.46	0.05	4.66	0.03	20.2	5.1	26	2.80	15.4
L842898		0.30	<0.01	0.03	2.75	6290	350	0.65	0.12	0.21	0.27	31.9	7.9	29	4.64	20.1
L842899		0.44	0.04	0.10	4.42	242	190	1.01	0.17	0.06	0.03	50.1	3.4	37	7.19	31.4
L842900		0.34	<0.01	0.03	2.81	91	100	0.68	0.07	10.35	0.06	37.4	9.6	25	1.45	15.9
L843601		0.23	0.01	0.01	1.82	49.0	30	0.07	0.06	0.10	0.02	28.0	3.1	18	0.34	19.5
L843602		0.36	<0.01	0.02	1.12	14	70	0.20	0.03	15.70	0.04	23.7	1.8	12	0.45	2.0
L842907		1.33	<0.01	0.10	9.84	146.5	910	2.83	0.33	0.37	0.14	80.1	27.2	122	25.0	87.9
L842908		1.78	<0.01	0.06	7.56	108.5	550	1.90	0.17	4.31	0.22	74.0	21.5	83	26.3	59.1
L842909		1.40	<0.01	0.10	5.60	98.3	490	1.52	0.13	3.89	0.34	55.8	15.1	60	35.0	38.3
L842910		1.79	<0.01	0.11	8.12	150.0	730	2.46	0.23	0.37	0.18	59.3	24.6	101	33.1	81.5
L842911		1.67	0.01	0.13	5.33	151.0	770	1.59	0.20	0.32	0.30	64.4	21.4	67	24.2	51.8
L842912		1.11	<0.01	0.12	4.22	144.0	660	1.12	0.13	0.49	0.12	51.7	12.2	44	13.85	51.0
L842913		1.02	<0.01	0.06	4.25	80.4	440	1.02	0.15	0.31	0.09	59.0	17.0	58	9.66	37.6
L842914		1.30	0.01	0.09	4.69	1225	340	1.32	0.18	0.09	0.10	51.0	16.6	58	18.40	39.9
L842915		1.21	<0.01	0.08	4.06	1545	380	1.07	0.17	0.08	0.08	43.1	14.9	48	14.95	32.4
L842916		1.31	<0.01	0.08	3.50	1220	420	0.78	0.12	0.08	0.07	35.0	9.5	49	11.45	30.7
L843555		0.59	<0.01	<0.01	0.10	11	10	0.18	0.01	22.9	0.11	0.92	0.5	4	0.15	2.2
L843556		0.83	<0.01	0.08	4.67	47.4	330	1.27	0.30	5.06	0.08	50.0	16.3	46	14.00	30.4
L843557		0.82	<0.01	0.06	4.26	1330	360	1.01	0.12	2.01	0.11	50.3	12.5	56	10.65	39.7
L843558		1.01	<0.01	0.04	3.04	1660	310	0.60	0.08	4.20	0.06	31.7	9.8	40	7.52	25.1
L843559		0.69	<0.01	0.02	0.97	17	100	0.95	0.08	23.3	0.02	11.70	2.4	8	1.22	5.1
L843560		Not Recvd														
L843561		0.68	0.05	0.56	0.30	195	4350	0.63	0.01	36.0	4.16	3.93	1.6	6	0.80	2.4
L843562		0.64	<0.01	0.02	0.10	157	130	0.40	<0.01	36.1	1.64	1.81	2.4	3	0.18	4.3
L843563		0.55	0.19	0.04	0.12	213	50	0.48	<0.01	35.0	16.15	1.42	14.3	5	<0.05	19.7
L843564		0.56	0.02	1.08	4.46	>10000	1280	1.97	0.11	1.57	15.15	24.2	23.4	109	4.90	192.0
L843565		0.28	0.32	46.3	1.32	3210	8260	2.27	0.08	2.82	959	14.20	51.3	41	6.43	85.6
L843566		0.64	0.04	1.13	0.22	114	500	0.24	0.01	35.5	9.18	3.02	1.1	5	0.45	2.3
L843567		0.59	<0.01	0.04	0.18	292	60	0.27	0.01	33.9	0.49	2.51	2.0	3	0.22	1.9

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 Account: RCM

Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
L843530		0.18	0.13	<0.05	0.1	0.04	<0.005	0.01	0.5	3.1	10.40	114	0.10	0.02	0.2	1.1
L843531		2.65	4.75	0.06	0.9	2.54	0.022	0.64	6.5	27.0	4.17	852	2.90	0.03	2.7	37.2
L843532		2.51	4.09	0.05	0.7	0.19	0.013	0.69	6.6	4.6	7.36	1420	0.27	0.01	2.7	11.6
L843533		0.34	0.63	<0.05	0.2	0.14	<0.005	0.09	1.8	4.1	10.65	403	0.25	0.02	0.6	2.8
L843534		1.43	2.08	<0.05	0.3	0.05	0.011	0.39	4.1	6.3	7.92	675	0.17	0.03	1.2	3.0
L843535		0.31	0.13	0.05	<0.1	0.19	0.009	0.01	0.6	4.8	10.95	360	0.11	0.02	0.1	9.2
L843536		21.0	5.91	0.08	0.7	0.20	0.036	0.34	13.7	12.2	0.35	202	3.71	0.04	1.4	7.4
L842893		30.7	10.55	0.68	1.9	0.6	0.109	1.50	12.4	13.2	0.48	301	2.06	<0.01	4.7	104.0
L842894		1.94	1.18	<0.05	0.7	0.12	0.009	0.05	5.1	9.8	0.74	439	0.21	0.01	0.9	3.5
L842895		1.46	1.30	<0.05	0.2	0.06	0.005	0.18	3.7	3.8	5.02	522	0.26	0.01	0.5	2.8
L842896		6.98	21.2	0.14	2.2	0.03	0.080	2.07	37.1	181.5	1.24	1140	0.27	0.36	8.1	52.8
L842897		3.32	4.50	0.07	0.9	12.3	0.022	0.50	8.8	54.3	1.50	743	0.18	0.02	2.5	8.8
L842898		3.20	6.91	0.07	1.3	17.1	0.029	0.74	13.2	95.2	0.14	675	0.15	0.01	4.0	13.9
L842899		4.82	14.25	<0.05	1.6	3.20	0.043	1.46	24.7	101.0	0.19	70	3.35	<0.01	3.6	16.2
L842900		5.20	4.93	0.08	1.1	0.44	0.028	0.41	15.9	24.4	1.71	2100	0.19	0.02	2.6	17.6
L843601		1.29	2.71	0.06	0.5	1.23	0.027	0.06	11.1	22.0	0.02	47	0.78	<0.01	1.2	8.6
L843602		1.04	1.71	0.06	1.0	0.04	0.013	0.17	10.0	8.4	3.30	287	0.21	0.53	1.8	3.4
L842907		5.84	29.2	0.11	4.9	30.9	0.108	4.77	34.8	45.9	0.74	469	1.14	0.03	15.5	53.4
L842908		6.17	22.4	0.11	3.2	22.2	0.074	3.47	35.2	46.3	0.98	980	2.02	0.04	10.9	41.1
L842909		7.08	15.30	0.57	2.3	28.8	0.056	2.28	27.3	107.0	0.60	1400	0.79	0.01	5.4	29.3
L842910		6.55	26.3	0.45	4.1	41.4	0.087	3.86	25.1	48.9	0.60	904	0.86	0.02	10.8	50.1
L842911		5.54	15.10	0.62	2.7	48.2	0.053	2.33	31.5	49.1	0.39	789	0.74	0.02	6.4	44.9
L842912		5.19	11.30	0.45	2.2	48.2	0.039	1.69	26.1	38.6	0.28	770	0.38	0.02	4.1	25.6
L842913		3.60	12.30	0.05	2.9	12.7	0.040	1.61	28.5	38.9	0.26	484	0.85	0.01	7.6	33.8
L842914		4.11	13.20	<0.05	2.5	38.1	0.052	1.70	24.8	139.5	0.29	573	0.67	0.01	7.8	31.4
L842915		4.16	11.50	<0.05	2.1	76.5	0.048	1.54	20.8	85.2	0.28	654	0.88	0.01	6.5	27.7
L842916		3.78	9.23	<0.05	1.7	49.1	0.038	1.38	16.8	72.1	0.25	668	0.48	0.01	5.5	19.9
L843555		0.23	0.18	0.06	<0.1	0.30	<0.005	0.02	<0.5	3.3	9.92	103	0.13	0.01	0.1	1.2
L843556		5.44	11.85	<0.05	2.2	6.3	0.053	2.19	23.9	20.1	0.94	945	0.25	0.04	7.5	25.8
L843557		3.22	11.40	<0.05	2.3	27.1	0.043	1.66	24.3	113.5	0.73	486	0.45	0.01	7.4	28.8
L843558		4.02	7.20	<0.05	1.6	18.2	0.029	1.18	15.3	47.7	1.35	752	0.29	0.01	4.4	26.5
L843559		4.23	2.32	0.07	0.4	0.30	0.038	0.25	4.8	19.1	3.52	600	0.21	0.05	1.0	12.0
L843560																
L843561		0.43	0.94	0.07	0.1	3.67	<0.005	0.07	3.4	1.6	0.13	443	3.45	0.02	0.6	18.8
L843562		0.36	0.33	0.10	0.1	0.19	<0.005	0.02	1.3	0.7	0.13	500	0.50	<0.01	0.3	15.6
L843563		2.50	0.24	0.09	<0.1	0.3	<0.005	0.01	1.9	0.2	0.10	330	1.20	<0.01	0.2	193.0
L843564		7.49	7.12	0.28	1.9	1.41	0.046	0.99	18.9	8.3	0.15	263	9.05	0.02	5.6	374
L843565		18.25	6.28	0.37	0.7	48.1	0.030	0.21	10.6	8.1	0.17	1000	35.7	0.02	2.9	884
L843566		0.49	0.67	0.06	0.1	5.51	0.008	0.06	2.0	0.7	0.16	248	3.04	0.01	0.6	8.8
L843567		0.32	0.50	0.10	0.1	0.26	<0.005	0.08	1.8	0.8	1.44	163	0.66	0.01	0.5	1.7



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**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
L843530		30	0.7	0.4	0.005	0.01	0.27	0.3	<1	<0.2	574	<0.05	0.05	0.2	0.006	<0.02
L843531		250	11.6	29.2	0.006	0.47	11.70	4.9	2	0.6	269	0.20	<0.05	3.4	0.115	0.21
L843532		260	0.9	27.7	0.005	0.02	0.42	3.1	1	0.6	918	0.20	0.06	3.0	0.083	0.15
L843533		110	1.0	4.1	0.006	0.01	54.8	2.2	<1	0.2	414	<0.05	<0.05	0.5	0.025	0.04
L843534		220	0.9	15.7	0.006	0.01	0.50	2.0	1	0.3	833	0.09	<0.05	1.5	0.041	0.07
L843535		40	0.6	0.5	0.007	0.02	3.16	0.8	<1	0.3	202	<0.05	<0.05	0.2	<0.005	0.09
L843536		1310	160.5	16.8	<0.002	0.08	5.61	2.0	1	0.6	57.2	0.12	0.15	3.6	0.066	0.10
L842893		870	25.7	78.1	0.002	0.07	37.2	15.3	2	1.1	141.5	0.34	0.05	9.2	0.181	0.70
L842894		180	5.8	2.5	0.004	0.03	0.99	1.9	<1	0.2	246	0.06	<0.05	1.9	0.053	<0.02
L842895		150	3.5	8.3	0.003	0.03	1.32	1.4	<1	0.2	694	<0.05	<0.05	0.9	0.018	0.05
L842896		350	14.4	89.5	<0.002	0.02	1.05	21.5	1	2.2	90.9	0.58	<0.05	11.3	0.278	0.55
L842897		1170	8.2	19.4	0.003	0.02	18.95	8.6	1	0.6	1710	0.18	<0.05	3.6	0.155	0.19
L842898		890	14.4	32.4	0.003	0.02	34.4	8.4	1	0.8	1155	0.27	0.08	4.9	0.211	0.22
L842899		130	29.6	70.6	<0.002	0.01	23.1	10.5	<1	1.2	51.2	0.26	0.05	6.5	0.194	0.41
L842900		260	20.2	17.9	0.005	0.04	2.62	9.7	1	0.5	322	0.19	0.05	3.5	0.119	0.11
L843601		270	8.1	2.8	0.005	0.01	49.9	2.3	<1	0.3	254	0.09	<0.05	2.1	0.059	0.03
L843602		230	4.2	7.7	0.004	0.02	0.57	1.5	1	0.3	610	0.12	<0.05	2.5	0.049	0.04
L842907		640	39.1	210	<0.002	<0.01	4230	30.5	2	3.5	305	1.13	0.10	14.1	0.749	1.52
L842908		500	17.0	150.5	<0.002	<0.01	2260	21.5	1	2.3	259	0.72	0.06	10.7	0.535	0.96
L842909		520	51.7	113.0	<0.002	<0.01	>10000	16.9	2	1.3	376	0.35	<0.05	8.6	0.355	1.38
L842910		570	42.3	171.0	<0.002	<0.01	5940	27.3	2	2.6	306	0.81	0.07	11.1	0.603	1.72
L842911		710	82.7	117.5	<0.002	0.01	>10000	17.7	2	1.3	480	0.38	0.05	9.9	0.369	1.59
L842912		600	113.0	78.8	<0.002	0.46	>10000	12.3	1	0.7	515	0.15	<0.05	7.8	0.228	1.38
L842913		450	15.1	79.2	<0.002	0.01	1420	11.7	1	1.4	233	0.51	0.06	9.1	0.401	0.49
L842914		460	13.4	88.8	<0.002	0.01	246	15.3	1	1.6	383	0.56	0.07	8.2	0.377	0.75
L842915		450	9.6	81.0	<0.002	0.01	114.0	12.3	1	1.4	364	0.45	0.06	6.7	0.312	0.81
L842916		490	8.7	66.5	<0.002	0.01	73.9	10.3	1	1.1	403	0.37	0.05	5.4	0.309	0.65
L843555		250	<0.5	1.1	0.005	0.01	6.23	0.5	<1	<0.2	672	<0.05	<0.05	<0.2	<0.005	<0.02
L843556		340	32.8	114.0	<0.002	0.05	49.4	13.7	1	1.7	299	0.51	0.15	7.2	0.332	0.53
L843557		430	7.4	78.6	<0.002	0.04	66.0	11.4	1	1.3	442	0.49	0.06	6.6	0.391	1.41
L843558		360	8.4	50.8	<0.002	0.03	60.6	9.0	1	0.8	474	0.33	0.06	4.7	0.266	0.90
L843559		150	4.4	13.1	0.003	0.04	1.74	2.7	<1	0.4	609	0.08	<0.05	1.8	0.041	0.07
L843560																
L843561		230	248	2.7	<0.002	0.13	5.89	6.8	2	<0.2	130.0	<0.05	<0.05	0.3	0.012	0.40
L843562		70	4.8	0.8	<0.002	<0.01	1.48	8.5	1	<0.2	94.5	<0.05	<0.05	<0.2	<0.005	0.03
L843563		180	8.6	0.1	<0.002	<0.01	0.99	9.6	2	<0.2	119.5	<0.05	<0.05	<0.2	<0.005	0.05
L843564		1840	64.6	42.5	<0.002	0.05	16.00	8.4	13	0.8	421	0.37	0.08	4.4	0.141	2.83
L843565		1720	8990	10.0	<0.002	0.19	424	12.0	24	0.9	548	0.17	0.08	1.8	0.060	1.57
L843566		270	227	2.2	0.003	0.01	15.80	7.6	2	0.2	363	<0.05	<0.05	0.4	0.009	0.13
L843567		120	9.6	2.8	<0.002	0.01	1.87	1.5	1	<0.2	104.5	<0.05	<0.05	0.3	0.009	0.04





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**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Sb- XRF10
		U	V	W	Y	Zn	Zr	Zn	As	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.1	1	0.1	0.1	2	0.5	0.001	0.001	0.01
L843530		0.6	1	0.1	1.2	4	2.0			
L843531		1.1	28	1.0	12.1	54	33.4			
L843532		0.8	19	0.4	8.8	17	29.0			
L843533		0.3	10	0.1	4.3	10	8.2			
L843534		0.4	11	0.2	6.1	27	14.2			
L843535		1.1	1	0.1	3.5	15	1.8			
L843536		0.8	66	0.3	4.0	18	21.9			
L842893		1.8	109	3.1	13.3	814	56.2			
L842894		0.3	14	0.5	3.9	7	18.1			
L842895		0.7	3	0.1	6.0	56	5.6			
L842896		2.4	74	1.3	15.8	126	70.5			
L842897		0.7	52	2.6	9.1	29	29.1			
L842898		1.0	53	3.3	11.5	47	42.7			
L842899		1.1	83	1.4	8.9	39	56.6			
L842900		0.9	57	0.3	17.3	51	24.2			
L843601		0.9	12	1.5	8.7	21	15.2			
L843602		3.8	20	0.2	8.6	12	35.3			
L842907		2.9	208	7.8	21.0	111	164.5			
L842908		2.0	160	6.8	25.1	110	119.5			
L842909		1.6	114	2.6	31.0	118	81.6			1.63
L842910		2.5	188	5.2	19.5	111	133.5			
L842911		1.8	104	1.5	23.4	104	92.4			1.91
L842912		1.3	61	0.6	21.5	63	75.9			5.03
L842913		1.5	95	4.5	17.0	52	107.5			
L842914		1.6	103	10.4	16.2	67	89.1			
L842915		1.4	87	7.6	14.0	61	77.0			
L842916		1.2	85	5.5	11.6	53	62.3			
L843555		0.3	<1	0.1	1.8	5	1.6			
L843556		1.4	90	6.4	26.0	64	76.5			
L843557		1.3	91	7.2	12.8	68	82.8			
L843558		0.9	73	6.5	10.5	58	50.6			
L843559		0.8	13	0.2	14.1	20	13.6			
L843560										
L843561		4.4	46	0.6	18.8	162	6.4			
L843562		3.5	40	0.2	21.5	211	5.6			
L843563		2.9	22	0.2	31.8	1370	1.2			
L843564		23.6	245	2.1	108.5	1370	97.6		2.21	
L843565		5.0	222	4.6	107.5	>10000	32.5	15.50		
L843566		2.8	51	0.6	22.6	779	6.4			
L843567		2.6	10	0.3	5.5	79	2.8			



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**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843568		0.46	<0.01	0.06	1.08	141	250	0.24	0.04	20.9	1.85	10.10	5.4	6	0.43	2.7
L843569		0.76	<0.01	0.57	0.70	>10000	560	3.63	0.01	0.61	6.57	8.87	349	8	1.83	37.3
L843570		0.28	0.13	1.68	4.70	292	2590	1.46	0.19	0.58	1.59	45.1	9.3	169	11.05	54.7
L843571		0.58	0.85	0.74	2.09	112.5	3460	0.63	0.07	6.44	0.77	18.90	4.1	80	3.73	21.1
L843572		0.33	0.09	0.46	1.82	128.0	1550	1.35	0.05	4.38	2.47	18.80	6.8	32	2.48	52.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843568		3.02	2.55	0.09	0.6	1.04	0.007	0.14	4.8	22.3	4.53	1160	6.92	0.09	1.8	42.7
L843569		>50	1.74	1.66	0.2	3.31	0.013	0.14	8.5	1.8	0.09	617	24.2	0.01	1.0	3710
L843570		4.22	12.65	0.22	2.1	1.69	0.045	1.52	31.1	27.3	0.29	269	7.47	0.12	11.2	95.7
L843571		1.79	5.48	0.12	1.1	2.28	0.020	0.66	15.2	27.6	0.27	136	2.83	0.08	4.5	34.8
L843572		3.52	4.80	0.12	0.7	0.90	0.015	0.52	9.9	11.5	2.39	8550	3.39	0.23	3.7	41.9

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**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method Analyte Units LOR	ME- MS61 P ppm 10	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02
L843568		310	30.3	6.2	0.002	0.03	1.43	1.9	2	0.3	59.9	0.13	<0.05	2.2	0.047	0.14
L843569		870	44.7	5.9	<0.002	0.02	6.54	2.6	71	<0.2	25.1	<0.05	<0.05	0.6	0.013	1.44
L843570		1740	20.5	84.6	0.004	0.19	3.92	12.0	10	1.3	172.5	0.65	0.14	7.1	0.301	4.82
L843571		940	7.5	33.1	0.006	0.28	2.49	5.4	10	0.6	437	0.25	0.09	2.9	0.136	2.73
L843572		730	17.5	25.3	<0.002	0.06	4.97	4.4	3	0.6	179.0	0.23	<0.05	2.7	0.085	0.84

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**CERTIFICATE OF ANALYSIS WH12168519**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Sb- XRF10
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	As %	Sb %
		0.1	1	0.1	0.1	2	0.5	0.001	0.001	0.01
L843568		1.0	13	0.3	5.6	304	20.6			
L843569		3.3	125	1.4	39.9	>10000	7.8	1.630	1.100	
L843570		6.0	285	2.2	31.9	441	80.7			
L843571		3.2	129	0.7	18.9	163	42.2			
L843572		1.7	61	0.8	17.6	206	26.5			

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**CERTIFICATE OF ANALYSIS WH12168519**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**VANCOUVER BC V6B 1L8**

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 Finalized Date: 30- JUL- 2012  
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**CERTIFICATE WH12170241**

Project: ATAC- Regional Area G- Midway  
 P.O. No.: Silt 16  
 This report is for 55 Silt samples submitted to our lab in Whitehorse, YT, Canada on 21- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area G- Midway

**CERTIFICATE OF ANALYSIS WH12170241**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD027231		0.35	<0.001	0.19	0.74	13.4	<0.2	<10	160	0.97	0.28	4.27	0.39	13.85	13.8	9
DD027232		0.36	<0.001	0.19	0.62	13.4	<0.2	<10	100	0.87	0.20	6.86	0.40	14.55	12.7	8
DD027233		0.29	0.001	0.24	0.69	12.3	<0.2	<10	110	1.12	0.26	3.10	0.29	14.80	12.1	9
DD027234		0.27	<0.001	0.36	0.78	13.7	<0.2	<10	110	1.20	0.26	2.44	0.33	13.45	11.4	10
DD027235		0.32	<0.001	0.44	0.70	15.9	<0.2	<10	90	1.25	0.28	1.96	0.34	13.60	11.8	9
DD027236		0.30	0.004	0.48	0.85	13.5	<0.2	<10	130	1.01	0.27	1.22	0.64	16.55	11.2	13
DD027163		0.23	0.001	0.38	1.08	17.4	<0.2	<10	170	1.38	0.27	1.43	0.33	20.9	11.4	14
DD027164		0.29	0.001	0.51	1.20	13.6	<0.2	<10	150	0.90	0.26	0.84	0.82	20.9	13.0	20
DD027165		0.31	0.001	2.76	0.85	31.8	<0.2	<10	80	0.88	0.19	7.57	4.18	13.65	10.2	11
DD027166		0.38	0.002	0.97	0.28	20	<0.2	<10	20	0.74	0.15	14.05	1.02	19.55	8.5	4
DD027167		0.27	<0.001	1.72	0.42	33.4	<0.2	<10	70	0.66	0.19	8.44	4.06	8.17	9.5	6
DD027168		0.32	<0.001	1.15	0.42	20	<0.2	<10	40	1.01	0.24	10.05	1.47	23.2	11.5	6
DD027169		0.36	<0.001	1.11	0.31	18	<0.2	<10	30	0.76	0.20	11.30	2.04	19.70	8.5	5
DD027170		0.47	0.003	0.83	0.35	16	<0.2	<10	60	0.76	0.19	11.35	1.95	20.2	8.2	5
DD027171		0.34	<0.001	0.57	0.50	12	<0.2	<10	170	0.97	0.21	12.85	9.60	10.45	8.5	6
DD027172		0.51	0.001	1.16	0.35	25.4	<0.2	<10	70	0.84	0.30	8.50	1.73	15.00	8.6	4
DD027173		0.30	<0.001	0.70	0.40	16	<0.2	<10	70	0.74	0.22	11.10	1.11	14.95	8.7	5
DD027174		0.38	<0.001	0.65	0.35	13	<0.2	<10	70	0.60	0.19	14.55	0.86	12.45	7.2	5
DD027175		0.44	<0.001	0.88	0.44	18.6	<0.2	<10	70	0.95	0.25	9.24	0.77	15.40	9.7	6
DD027343		0.34	0.001	0.57	0.76	11	<0.2	<10	70	0.56	0.12	11.95	3.09	12.10	4.8	10
DD027344		0.28	0.001	1.09	0.80	94.3	<0.2	<10	80	0.54	0.14	8.36	8.17	10.70	5.4	11
DD027345		0.40	<0.001	0.57	0.59	17.4	<0.2	<10	80	1.06	0.30	6.69	3.02	37.6	16.4	9
DD027346		0.39	0.001	0.29	0.65	12.1	<0.2	<10	100	0.76	0.21	7.82	2.12	20.1	10.1	8
DD027347		0.34	0.001	0.40	0.77	15.3	<0.2	<10	130	0.94	0.23	5.22	2.85	19.40	11.0	9
DD027321		0.23	<0.001	0.14	0.44	9.7	<0.2	<10	100	0.69	0.24	9.48	0.24	16.20	11.5	7
DD027322		0.27	<0.001	0.14	0.50	9.0	<0.2	<10	80	0.67	0.25	9.27	0.22	16.70	12.0	8
DD027323		0.20	<0.001	0.14	0.51	9.4	<0.2	<10	70	0.72	0.25	9.67	0.25	19.40	12.6	8
DD027324		0.31	<0.001	0.16	0.54	8	<0.2	<10	40	0.69	0.26	10.50	0.24	19.40	13.0	9
DD027325		0.26	0.002	0.21	0.67	6.5	<0.2	<10	110	0.67	0.34	9.25	0.25	25.7	15.4	10
DD027326		0.21	<0.001	0.10	0.77	7.3	<0.2	<10	80	1.35	0.60	0.11	0.21	11.55	11.2	10
DD027327		0.22	<0.001	0.15	1.01	11.1	<0.2	<10	70	1.44	0.51	0.12	0.13	11.10	10.9	14
DD027328		0.15	<0.001	0.42	0.83	8.5	<0.2	<10	80	1.91	0.49	0.69	0.07	8.90	11.4	9
DD027329		0.15	0.012	0.65	0.74	13.9	<0.2	<10	140	1.41	0.31	1.14	0.47	11.85	13.8	11
DD027330		0.20	<0.001	0.30	0.69	10.1	<0.2	<10	150	1.09	0.27	2.15	0.23	14.85	13.3	9
DD027331		0.26	<0.001	0.32	0.44	13.6	<0.2	<10	100	1.16	0.34	2.30	0.16	10.85	19.1	6
DD027332		0.17	<0.001	0.31	0.41	15.6	<0.2	<10	110	1.30	0.36	2.23	0.20	10.60	22.3	6
DD027333		0.24	0.001	0.29	0.96	15.4	<0.2	<10	430	0.60	0.16	7.91	0.77	18.30	8.2	18
DD027334		0.35	<0.001	0.26	0.77	14	<0.2	<10	280	0.46	0.13	10.10	1.48	12.60	8.5	15
DD027335		0.34	0.002	0.18	0.53	10	<0.2	<10	280	0.41	0.10	13.90	1.01	10.15	7.3	10
DD027337		0.19	0.004	0.17	0.49	11	<0.2	<10	340	0.38	0.09	12.85	1.12	11.15	5.3	11

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 Account: RCM

Project: ATAC- Regional Area G- Midway

**CERTIFICATE OF ANALYSIS WH12170241**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
DD027231		1.38	27.8	3.09	2.19	<0.05	0.05	0.09	0.034	0.10	5.5	9.6	2.15	718	1.47	0.01
DD027232		1.28	29.8	2.68	1.94	<0.05	0.05	0.08	0.032	0.09	6.1	9.4	3.88	747	1.35	0.01
DD027233		3.11	29.3	2.61	2.12	<0.05	0.08	0.11	0.034	0.10	6.5	10.5	1.49	504	1.29	<0.01
DD027234		2.63	30.0	2.89	2.33	<0.05	0.07	0.12	0.036	0.11	6.1	10.8	1.20	475	1.33	<0.01
DD027235		7.14	29.3	2.88	2.09	<0.05	0.07	0.14	0.034	0.10	6.4	9.3	0.96	459	1.17	<0.01
DD027236		2.19	22.0	2.88	2.58	<0.05	0.05	0.14	0.038	0.08	7.6	8.7	0.40	801	0.94	<0.01
DD027163		6.33	29.7	3.03	3.18	<0.05	0.09	0.19	0.032	0.12	9.2	12.2	0.65	560	1.25	<0.01
DD027164		2.67	18.2	3.37	3.61	0.05	0.04	0.13	0.032	0.06	10.3	13.1	0.47	1120	1.12	0.01
DD027165		1.12	17.7	3.11	2.25	<0.05	0.05	0.37	0.036	0.07	6.7	6.1	4.22	1760	1.22	0.02
DD027166		1.92	19.0	2.13	0.82	<0.05	0.04	0.20	0.017	0.10	10.4	2.3	8.61	580	1.50	0.02
DD027167		0.59	18.1	3.70	1.09	<0.05	0.07	0.26	0.026	0.05	3.6	2.6	4.85	3220	1.09	0.02
DD027168		1.79	26.6	2.83	1.25	0.05	0.06	0.27	0.028	0.09	11.9	3.4	6.03	594	1.89	0.02
DD027169		1.82	19.4	2.31	0.83	<0.05	0.04	0.22	0.023	0.07	10.4	2.7	6.85	465	1.30	0.02
DD027170		1.82	19.3	2.29	0.90	<0.05	0.04	0.19	0.019	0.08	10.8	3.1	6.68	417	1.20	0.02
DD027171		4.29	26.1	2.00	1.30	<0.05	0.05	0.11	0.022	0.08	5.2	6.1	2.25	347	0.99	0.02
DD027172		1.85	23.0	2.42	0.97	<0.05	0.04	0.13	0.029	0.07	7.9	3.8	3.63	327	1.33	0.02
DD027173		1.67	21.4	2.14	1.04	<0.05	0.04	0.15	0.024	0.08	7.6	4.6	4.20	377	1.09	0.02
DD027174		1.57	17.7	1.84	0.94	<0.05	0.04	0.14	0.021	0.07	6.4	4.2	3.88	334	0.96	0.02
DD027175		1.62	22.9	2.42	1.20	<0.05	0.05	0.18	0.029	0.09	8.0	4.8	3.88	435	1.12	0.02
DD027343		0.56	10.5	1.37	2.06	<0.05	0.05	0.93	0.019	0.03	5.7	7.7	7.26	381	0.36	0.02
DD027344		0.84	19.2	2.14	1.92	<0.05	0.05	1.26	0.025	0.05	5.5	7.0	4.77	526	0.79	0.02
DD027345		2.84	30.0	4.44	1.74	0.06	0.04	0.20	0.035	0.09	19.7	5.4	3.76	331	1.28	0.02
DD027346		1.20	22.7	2.42	1.80	<0.05	0.05	0.23	0.032	0.10	10.0	7.6	4.11	428	0.98	0.02
DD027347		1.29	22.4	2.72	2.17	0.05	0.07	0.34	0.034	0.11	9.6	8.3	3.01	311	0.97	0.01
DD027321		3.71	25.4	2.32	1.27	<0.05	0.05	0.10	0.026	0.06	7.9	10.4	4.72	474	0.67	0.02
DD027322		3.42	26.3	2.44	1.45	0.05	0.05	0.09	0.028	0.06	8.1	12.0	4.89	480	0.69	0.02
DD027323		4.37	30.8	2.50	1.42	<0.05	0.04	0.12	0.029	0.05	9.1	12.4	5.09	483	0.62	0.02
DD027324		2.57	32.3	2.58	1.48	<0.05	0.04	0.09	0.030	0.06	9.2	13.4	5.51	485	0.75	0.02
DD027325		2.91	44.7	2.74	1.87	0.06	0.07	0.08	0.034	0.06	13.2	16.3	5.29	508	0.70	0.02
DD027326		3.55	24.9	4.44	3.46	<0.05	0.02	0.03	0.065	0.09	5.9	7.7	0.14	899	1.50	0.01
DD027327		3.80	29.3	4.01	3.88	<0.05	0.02	0.04	0.036	0.11	5.2	17.4	0.26	498	1.43	0.01
DD027328		4.32	35.9	3.17	2.41	<0.05	0.11	0.11	0.034	0.10	5.0	11.3	0.31	379	1.24	0.01
DD027329		3.06	31.0	3.18	2.26	<0.05	0.10	0.18	0.038	0.10	6.2	9.8	0.44	491	1.18	0.01
DD027330		2.53	30.1	2.84	1.97	<0.05	0.08	0.13	0.034	0.09	7.2	10.5	1.11	595	1.11	0.02
DD027331		2.29	30.3	3.22	1.31	<0.05	0.05	0.12	0.036	0.08	5.1	5.6	1.05	1020	0.98	0.01
DD027332		2.10	33.5	3.25	1.22	<0.05	0.04	0.12	0.037	0.08	4.9	4.7	0.94	1290	1.01	0.01
DD027333		0.65	20.4	2.09	2.73	0.05	0.04	0.23	0.021	0.07	10.2	10.5	4.20	336	3.55	0.02
DD027334		0.79	21.0	1.81	2.19	<0.05	0.04	0.20	0.019	0.09	7.1	9.3	4.35	299	3.36	0.02
DD027335		0.67	16.3	1.37	1.52	<0.05	0.03	0.16	0.016	0.06	5.7	6.8	4.84	293	3.26	0.02
DD027337		0.59	12.7	1.21	1.43	<0.05	0.04	0.16	0.013	0.05	6.0	6.4	5.30	242	2.64	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
DD027231		0.17	21.5	560	32.4	6.6	0.001	0.04	1.59	4.3	0.8	0.3	42.9	<0.01	0.04	1.3
DD027232		0.14	18.9	430	31.2	5.5	<0.001	0.03	1.48	4.9	0.9	0.3	56.3	<0.01	0.03	1.9
DD027233		0.17	18.3	550	28.1	13.1	<0.001	0.05	1.82	4.2	0.6	0.3	42.2	<0.01	0.01	1.5
DD027234		0.17	18.6	610	31.1	13.9	<0.001	0.06	2.26	4.4	0.9	0.3	35.2	<0.01	0.05	1.4
DD027235		0.18	17.9	630	35.5	13.3	<0.001	0.05	3.23	4.3	0.8	0.3	27.9	<0.01	0.02	1.4
DD027236		0.30	15.9	770	58.7	8.9	<0.001	0.06	2.79	3.9	1.2	0.3	21.0	<0.01	0.03	1.2
DD027163		0.30	20.9	640	31.3	10.4	<0.001	0.04	2.37	4.8	0.9	0.4	28.0	<0.01	0.02	2.0
DD027164		0.46	20.0	800	109.5	10.5	<0.001	0.06	2.48	3.5	0.7	0.4	18.5	<0.01	0.05	0.8
DD027165		0.28	17.2	1700	605	7.6	<0.001	0.09	12.10	2.1	0.5	0.3	21.9	<0.01	0.03	0.5
DD027166		0.06	13.7	330	173.0	4.4	<0.001	0.07	6.48	4.1	0.4	0.3	33.1	<0.01	0.03	1.5
DD027167		0.11	17.3	740	304	3.6	<0.001	0.08	8.44	2.7	0.5	0.2	22.0	<0.01	0.04	0.7
DD027168		0.10	19.5	570	163.5	5.7	0.001	0.06	6.74	4.9	0.7	0.4	27.8	<0.01	0.03	1.5
DD027169		0.07	14.0	420	179.0	6.5	<0.001	0.05	5.91	4.1	0.5	0.4	28.8	<0.01	0.03	1.4
DD027170		0.08	13.3	380	130.5	6.7	0.001	0.06	4.53	4.2	0.3	0.3	31.2	<0.01	0.03	1.6
DD027171		0.11	15.9	460	48.0	8.5	<0.001	0.12	2.82	3.9	0.7	0.3	68.8	<0.01	0.03	1.0
DD027172		0.06	13.4	360	82.7	6.3	0.002	0.08	6.98	4.0	0.6	0.3	41.7	<0.01	0.03	1.6
DD027173		0.08	13.6	400	80.7	6.9	0.001	0.11	4.15	3.9	0.5	0.3	48.8	<0.01	0.03	1.5
DD027174		0.07	11.6	360	70.8	5.8	0.001	0.13	3.41	3.6	0.2	0.3	63.3	<0.01	0.03	1.3
DD027175		0.10	15.2	510	87.0	6.2	<0.001	0.08	4.04	4.5	0.7	0.3	39.5	<0.01	0.04	1.4
DD027343		0.36	10.0	700	153.5	4.4	<0.001	0.06	6.83	2.4	0.5	0.3	34.1	<0.01	0.04	1.1
DD027344		0.34	15.2	1070	500	8.1	<0.001	0.08	13.30	2.3	0.9	0.3	31.2	<0.01	0.02	0.8
DD027345		0.24	33.9	620	127.0	6.9	0.001	0.07	4.50	7.4	1.1	0.4	25.0	<0.01	0.03	2.2
DD027346		0.14	17.6	490	77.7	7.8	<0.001	0.03	2.20	4.7	0.7	0.4	43.1	<0.01	0.04	2.0
DD027347		0.20	18.0	620	94.6	9.5	0.003	0.11	3.07	4.8	1.0	0.4	23.9	<0.01	0.03	2.0
DD027321		0.07	16.1	400	27.5	5.3	<0.001	0.07	2.23	5.1	0.8	0.2	121.0	<0.01	0.10	2.3
DD027322		0.06	17.0	430	27.7	5.0	0.001	0.07	2.29	5.4	0.9	0.2	112.5	<0.01	0.13	2.5
DD027323		0.08	18.3	480	28.4	5.2	<0.001	0.06	2.25	5.7	0.6	0.2	116.0	<0.01	0.10	2.3
DD027324		<0.05	19.0	500	30.5	4.1	<0.001	0.08	2.33	5.8	0.7	<0.2	117.5	<0.01	0.10	2.4
DD027325		<0.05	20.4	610	35.6	4.5	0.001	0.05	4.08	6.5	0.6	0.2	102.0	<0.01	0.13	3.3
DD027326		0.21	15.3	710	26.1	8.9	<0.001	0.04	0.59	3.6	0.3	0.4	12.4	<0.01	0.06	1.0
DD027327		0.26	15.7	510	41.1	10.8	<0.001	0.04	0.97	2.7	0.4	0.4	15.4	<0.01	0.05	1.2
DD027328		0.13	17.3	570	34.6	9.5	<0.001	0.06	1.06	4.7	0.6	0.4	35.5	<0.01	0.05	1.2
DD027329		0.17	20.4	680	40.8	11.0	0.001	0.07	2.75	4.4	0.9	0.4	33.5	<0.01	0.07	1.4
DD027330		0.16	18.1	490	27.0	8.7	<0.001	0.04	1.84	4.6	0.7	0.3	38.5	<0.01	0.07	1.4
DD027331		0.10	18.4	370	28.1	6.1	0.001	0.04	3.08	4.5	0.2	0.3	43.2	<0.01	0.07	1.8
DD027332		0.07	20.1	410	28.2	6.4	0.001	0.04	3.50	4.6	0.3	0.3	46.8	<0.01	0.05	1.7
DD027333		0.38	29.8	940	13.8	5.9	0.001	0.03	1.49	2.9	1.3	0.3	68.2	<0.01	0.04	1.0
DD027334		0.24	30.7	810	13.2	6.4	0.001	0.03	1.34	2.9	1.3	0.3	89.4	<0.01	0.03	1.0
DD027335		0.19	23.6	620	11.4	3.9	0.002	0.01	1.18	2.5	0.6	0.2	134.0	<0.01	0.06	1.2
DD027337		0.20	19.4	740	9.0	3.5	0.004	0.02	1.05	2.2	1.1	0.2	114.0	<0.01	0.04	1.3

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**CERTIFICATE OF ANALYSIS WH12170241**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD027231		<0.005	0.16	0.74	17	0.07	8.35	134	1.6
DD027232		<0.005	0.14	0.66	15	0.05	9.70	113	2.1
DD027233		<0.005	0.07	0.70	15	0.08	9.13	115	2.2
DD027234		<0.005	0.10	1.09	17	0.07	8.93	137	2.3
DD027235		<0.005	0.09	0.94	16	0.09	8.56	135	2.1
DD027236		0.008	0.10	1.01	22	0.12	9.39	203	1.8
DD027163		0.006	0.15	0.88	24	0.11	11.20	120	2.7
DD027164		0.017	0.10	1.05	36	0.30	10.85	298	0.9
DD027165		0.008	0.09	0.88	24	0.21	10.00	1080	1.2
DD027166		<0.005	0.13	0.83	12	0.07	7.80	330	1.2
DD027167		<0.005	0.09	0.55	13	0.07	9.60	1080	1.9
DD027168		<0.005	0.13	0.93	15	0.05	10.80	501	1.9
DD027169		<0.005	0.11	0.77	12	0.05	8.50	928	1.3
DD027170		<0.005	0.09	0.70	12	<0.05	8.25	869	1.3
DD027171		<0.005	0.08	0.62	10	<0.05	8.38	1800	1.8
DD027172		<0.005	0.07	0.64	9	0.12	6.81	623	1.6
DD027173		<0.005	0.07	0.63	10	0.05	7.68	519	1.4
DD027174		<0.005	0.07	0.58	9	0.05	6.83	390	1.3
DD027175		<0.005	0.07	0.74	12	0.05	8.92	423	1.5
DD027343		0.010	0.06	0.83	20	0.12	7.44	725	1.6
DD027344		0.011	0.21	0.73	19	0.12	7.08	2720	1.2
DD027345		0.006	0.10	0.87	20	0.06	16.70	1290	1.0
DD027346		<0.005	0.08	0.42	13	<0.05	10.75	672	1.6
DD027347		<0.005	0.11	0.64	15	0.07	10.75	960	1.9
DD027321		<0.005	0.10	0.46	11	<0.05	10.45	84	2.1
DD027322		<0.005	0.10	0.46	11	<0.05	11.15	88	2.5
DD027323		<0.005	0.13	0.47	12	0.05	12.35	92	1.7
DD027324		<0.005	0.10	0.36	11	<0.05	12.45	100	2.5
DD027325		<0.005	0.10	0.36	12	<0.05	13.75	98	3.3
DD027326		0.005	0.04	0.60	18	0.05	3.55	57	0.5
DD027327		0.007	0.08	0.54	20	0.06	3.66	45	0.6
DD027328		<0.005	0.07	0.75	13	<0.05	8.95	38	2.7
DD027329		<0.005	0.07	4.22	15	0.08	9.25	157	3.0
DD027330		<0.005	0.08	1.00	15	0.05	10.35	83	2.1
DD027331		<0.005	0.08	0.73	12	<0.05	7.45	65	1.6
DD027332		<0.005	0.09	0.76	11	<0.05	7.65	65	1.4
DD027333		0.013	0.29	1.53	49	0.12	11.85	105	1.2
DD027334		0.007	0.28	1.55	40	0.08	9.93	148	1.4
DD027335		0.007	0.22	1.69	29	0.06	8.69	92	1.2
DD027337		0.008	0.21	1.57	31	0.06	7.97	95	1.4



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**CERTIFICATE OF ANALYSIS WH12170241**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ56381		0.24	0.003	0.17	0.50	16	<0.2	<10	200	0.78	0.22	10.45	0.44	12.45	14.2	7
ZZ56382		0.15	0.003	0.09	0.26	3	<0.2	10	130	0.38	0.09	23.5	0.63	3.90	4.1	3
ZZ56383		0.16	0.004	0.14	0.61	10.9	<0.2	10	80	0.88	0.25	4.83	0.33	12.75	11.2	8
ZZ56384		0.23	0.002	0.19	0.68	11.4	<0.2	<10	80	1.02	0.31	4.07	0.32	14.90	12.9	10
ZZ56385		0.22	0.003	0.18	0.87	13.0	<0.2	<10	160	0.89	0.26	2.80	0.42	16.90	12.2	11
ZZ56386		0.22	0.002	0.22	0.64	16.7	<0.2	<10	80	1.23	0.39	1.39	0.32	18.05	11.7	8
ZZ56387		0.12	0.006	0.18	0.43	12.4	<0.2	<10	70	1.10	0.35	2.91	0.27	26.7	12.7	6
ZZ56388		0.26	0.002	0.12	0.33	14.4	<0.2	<10	70	0.97	0.36	4.66	0.21	31.6	16.9	5
ZZ56389		0.14	0.002	0.10	0.72	15.9	<0.2	<10	110	0.89	0.36	1.54	0.26	30.4	16.7	11
ZZ56390		0.19	0.001	0.18	0.71	17.0	<0.2	<10	90	1.30	0.39	1.52	0.17	17.65	16.9	9
ZZ56391		0.13	0.002	0.46	0.83	15.3	<0.2	<10	710	0.47	0.13	3.09	3.71	12.80	6.0	19
ZZ56392		0.19	0.007	0.34	1.15	13.4	<0.2	<10	300	0.58	0.17	5.27	2.08	18.60	8.0	22
ZZ56393		0.28	0.003	0.16	0.70	15	<0.2	<10	320	0.42	0.11	14.25	1.00	11.80	7.8	12
ZZ56394		0.34	0.004	0.51	0.58	15	<0.2	<10	590	0.39	0.11	11.10	1.64	11.40	5.8	16
ZZ56395		0.12	0.005	0.31	0.54	12	<0.2	<10	500	0.34	0.09	10.05	1.51	9.64	5.0	14

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**CERTIFICATE OF ANALYSIS WH12170241**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ZZ56381	1.86	30.8	2.59	1.52	0.05	0.11	0.06	0.029	0.09	5.7	8.8	3.29	649	1.42	0.02	
ZZ56382	1.07	13.2	0.94	0.70	<0.05	0.04	0.06	0.013	0.05	1.8	4.3	0.92	179	0.48	0.02	
ZZ56383	1.56	28.4	2.69	1.69	<0.05	0.06	0.08	0.033	0.10	6.1	8.3	1.58	473	1.17	0.02	
ZZ56384	1.66	31.0	2.99	1.96	0.08	0.07	0.08	0.036	0.10	6.9	10.0	1.24	565	1.10	0.02	
ZZ56385	1.30	29.7	3.33	2.50	0.08	0.08	0.10	0.035	0.10	7.4	11.8	1.31	693	1.43	0.02	
ZZ56386	2.01	37.7	3.30	1.87	0.09	0.10	0.07	0.044	0.08	8.1	7.5	0.30	243	1.22	0.02	
ZZ56387	1.13	35.6	3.29	1.29	0.10	0.07	0.04	0.039	0.09	12.7	6.1	0.83	413	1.06	0.02	
ZZ56388	1.95	34.6	2.92	1.10	0.10	0.05	0.03	0.031	0.12	14.4	6.1	1.90	556	1.08	0.02	
ZZ56389	0.62	34.3	3.43	2.12	0.11	0.10	0.04	0.037	0.20	13.7	8.7	0.32	532	1.06	0.02	
ZZ56390	1.06	36.8	3.86	2.00	0.10	0.08	0.06	0.045	0.09	8.0	8.1	0.44	678	1.30	0.02	
ZZ56391	0.51	23.3	1.54	2.41	0.06	0.05	0.68	0.018	0.05	7.2	7.3	0.47	329	2.86	0.02	
ZZ56392	0.63	18.0	2.14	3.38	0.08	0.05	0.21	0.022	0.06	10.1	11.6	2.55	318	3.05	0.02	
ZZ56393	0.80	19.1	1.68	2.10	0.06	0.04	0.28	0.017	0.11	6.1	9.8	4.41	324	3.90	0.03	
ZZ56394	0.79	20.7	1.44	1.86	0.07	0.04	0.35	0.019	0.07	6.6	8.3	3.97	217	5.73	0.02	
ZZ56395	0.55	16.3	1.35	1.69	0.06	0.05	0.28	0.017	0.07	5.5	7.9	3.69	206	4.48	0.03	

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**CERTIFICATE OF ANALYSIS WH12170241**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ56381		0.08	21.0	400	31.2	5.5	<0.001	0.06	1.52	5.4	0.5	0.3	135.0	<0.01	0.06	2.5
ZZ56382		0.07	11.1	290	13.3	4.6	<0.001	0.37	0.61	1.7	0.4	0.2	351	<0.01	0.02	0.5
ZZ56383		0.15	19.5	620	29.2	8.8	<0.001	0.07	1.20	4.0	0.5	0.3	89.4	<0.01	0.02	1.4
ZZ56384		0.25	24.0	640	29.5	12.4	<0.001	0.12	1.31	4.7	1.0	0.3	92.3	<0.01	0.03	1.3
ZZ56385		0.34	21.2	500	30.9	8.7	<0.001	0.04	1.33	4.9	0.6	0.3	36.8	<0.01	0.02	2.3
ZZ56386		0.19	21.4	780	34.5	8.1	<0.001	0.09	1.59	5.4	0.9	0.3	37.3	0.01	0.02	1.5
ZZ56387		0.18	19.4	740	34.6	6.3	<0.001	0.09	1.28	4.4	0.9	0.5	27.7	0.01	0.02	1.3
ZZ56388		0.16	20.1	780	29.3	6.8	<0.001	0.06	1.20	5.1	0.7	0.3	41.4	0.01	0.02	2.4
ZZ56389		0.37	24.7	940	32.5	6.5	<0.001	0.15	1.09	4.4	1.0	0.3	25.6	0.01	0.03	1.3
ZZ56390		0.20	23.9	550	27.9	5.6	<0.001	0.05	1.48	6.0	1.0	0.3	22.1	0.01	0.02	1.6
ZZ56391		0.43	38.4	1170	7.8	6.4	0.004	0.14	2.21	1.5	3.5	0.3	34.3	<0.01	0.06	0.4
ZZ56392		0.65	31.5	1120	12.2	6.5	0.001	0.07	1.44	2.3	1.4	0.3	49.7	0.01	0.05	0.7
ZZ56393		0.38	28.0	650	11.5	6.1	0.001	0.02	1.13	3.0	1.1	0.2	144.0	<0.01	0.02	2.0
ZZ56394		0.33	30.4	1070	9.7	5.6	0.005	0.04	1.98	2.9	3.6	0.3	125.5	<0.01	0.03	1.5
ZZ56395		0.30	24.8	930	8.5	5.3	0.004	0.06	1.56	2.3	2.2	0.2	98.2	<0.01	0.03	1.0

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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ56381		<0.005	0.11	0.67	12	<0.05	9.82	106	4.6
ZZ56382		<0.005	0.08	0.84	5	<0.05	4.32	187	1.2
ZZ56383		<0.005	0.08	0.78	14	<0.05	10.25	134	1.7
ZZ56384		<0.005	0.09	0.89	17	0.07	13.80	166	1.9
ZZ56385		0.007	0.12	0.66	21	0.08	9.93	125	2.6
ZZ56386		<0.005	0.10	0.92	16	0.06	16.70	161	2.8
ZZ56387		<0.005	0.09	0.75	11	0.09	17.85	160	2.1
ZZ56388		<0.005	0.11	0.46	10	0.05	16.80	148	1.4
ZZ56389		0.009	0.09	0.50	19	0.12	20.6	137	2.6
ZZ56390		<0.005	0.08	0.60	18	0.07	19.50	85	2.1
ZZ56391		0.009	0.39	2.87	82	0.10	11.10	207	1.5
ZZ56392		0.016	0.21	2.06	52	0.17	11.70	176	1.3
ZZ56393		0.008	0.33	1.57	32	0.08	10.30	111	2.0
ZZ56394		0.008	0.39	2.23	55	0.14	11.60	137	1.7
ZZ56395		0.006	0.30	1.71	45	0.08	9.22	135	1.9

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Account: RCM

Project: ATAC- Regional Area G- Midway

**CERTIFICATE OF ANALYSIS WH12170241**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1  
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**CERTIFICATE WH12170247**

Project: ATAC- Regional Area CragNorth F  
 P.O. No.: Soil 22  
 This report is for 30 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATAC- Regional Area CragNorth F

**CERTIFICATE OF ANALYSIS WH12170247**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ62175		0.16	0.005	0.40	1.46	32.9	<0.2	<10	290	1.25	0.24	2.70	3.49	19.25	13.8	28
ZZ62176		0.29	0.002	0.18	1.03	77.0	<0.2	<10	120	0.96	0.18	7.91	2.20	19.45	7.6	20
ZZ62177		0.17	0.002	0.08	0.79	20	<0.2	<10	90	0.56	0.13	12.05	1.51	14.85	4.3	15
ZZ62178		0.18	0.004	0.13	0.65	19	<0.2	<10	60	0.65	0.11	12.65	4.76	11.25	6.2	12
ZZ62179		0.19	0.003	0.27	1.21	23.6	<0.2	<10	160	0.76	0.21	1.82	3.11	27.0	10.5	24
ZZ62180		0.28	0.002	0.40	1.16	13.6	<0.2	<10	160	0.71	0.20	4.47	3.76	19.95	9.9	23
ZZ62181		0.28	0.002	0.34	1.34	13.9	<0.2	<10	230	0.77	0.22	3.24	2.75	23.7	9.6	24
ZZ62182		0.18	0.018	0.30	1.27	13.5	<0.2	<10	190	0.77	0.23	2.30	6.23	23.7	10.3	23
ZZ62183		0.41	0.004	0.62	1.32	61.5	<0.2	<10	770	1.77	0.32	4.37	7.97	30.3	15.5	29
ZZ62184		0.33	0.008	0.25	1.67	24.2	<0.2	<10	290	1.62	0.25	3.36	5.62	26.9	23.7	28
ZZ62185		0.26	0.003	0.41	2.34	38.3	<0.2	<10	830	3.70	0.27	2.52	11.10	30.9	61.5	30
ZZ62186		0.47	0.003	0.13	0.62	17	<0.2	<10	120	0.61	0.12	22.1	3.65	11.45	7.4	13
ZZ62187		0.29	0.003	0.33	1.61	20.5	<0.2	<10	240	1.28	0.27	2.12	6.39	29.9	17.3	39
ZZ62188		0.24	0.002	0.21	1.89	42.0	<0.2	<10	480	2.20	0.16	9.92	16.95	20.1	54.0	17
ZZ62189		0.28	0.004	0.13	1.24	43.4	<0.2	<10	200	1.65	0.21	8.77	7.96	21.2	20.0	26
ZZ62190		0.21	0.002	0.10	0.63	16	<0.2	<10	90	0.66	0.09	14.20	5.05	6.99	10.0	10
ZZ62191		0.24	0.011	1.05	0.60	10.4	<0.2	10	630	0.75	0.19	1.76	2.17	5.35	4.3	23
ZZ62192		0.19	<0.001	0.35	0.63	8.9	<0.2	<10	490	0.46	0.22	0.52	0.78	11.85	9.2	21
ZZ62193		0.25	0.004	0.50	1.37	8.6	<0.2	<10	790	0.76	0.23	1.47	0.99	25.9	10.9	27
ZZ62194		0.26	0.002	0.11	1.19	9.3	<0.2	<10	670	0.58	0.23	0.47	0.61	25.3	7.4	22
ZZ62195		0.22	<0.001	0.22	0.74	8.4	<0.2	<10	1640	0.52	0.35	0.83	0.88	17.85	10.3	24
ZZ62196		0.30	<0.001	0.86	1.02	7.7	<0.2	<10	380	0.84	0.37	1.05	1.19	28.9	9.7	33
ZZ62197		0.21	0.002	0.21	0.59	8.9	<0.2	<10	220	0.47	0.20	0.06	0.63	11.20	9.6	18
ZZ57150		0.16	0.002	0.18	1.43	16.9	<0.2	<10	350	0.62	0.21	0.39	0.66	21.3	5.8	26
ZZ57201		0.23	0.003	0.35	1.79	18.4	<0.2	<10	580	1.12	0.26	0.75	0.45	31.8	8.5	32
ZZ57202		0.13	0.006	0.31	1.77	62.0	<0.2	<10	420	3.18	0.25	1.88	14.15	29.3	45.8	32
ZZ57203		0.16	0.004	0.20	2.65	73	<0.2	<10	750	3.13	0.18	10.00	12.80	28.6	37.6	24
ZZ57204		0.20	0.007	3.02	2.49	55.8	<0.2	10	1450	4.00	0.22	1.82	20.5	27.7	41.9	37
ZZ57205		0.16	0.002	2.66	0.69	21.9	<0.2	10	860	0.65	0.16	1.30	0.36	11.70	3.6	27
ZZ57206		0.20	0.003	2.15	0.85	25.0	<0.2	10	1010	0.71	0.20	1.28	0.78	13.25	4.1	29

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 Finalized Date: 1- AUG- 2012  
 Account: RCM

Project: ATAC- Regional Area CragNorth F

**CERTIFICATE OF ANALYSIS WH12170247**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ62175		1.03	54.4	2.81	3.57	<0.05	0.10	0.32	0.031	0.08	12.8	12.0	0.74	415	3.25	0.01
ZZ62176		0.90	24.5	2.08	2.52	<0.05	0.06	0.22	0.019	0.05	11.2	8.0	4.06	361	1.46	0.02
ZZ62177		0.47	12.7	1.24	1.55	<0.05	0.03	0.22	0.017	0.03	7.2	4.0	6.33	341	0.61	0.02
ZZ62178		0.50	19.7	1.02	1.23	<0.05	0.04	0.32	0.013	0.03	5.3	3.9	6.89	397	1.01	0.02
ZZ62179		0.66	25.0	2.66	3.10	0.05	0.05	0.11	0.023	0.05	18.1	11.3	0.54	419	2.61	0.01
ZZ62180		0.64	22.2	2.32	2.75	<0.05	0.03	0.12	0.019	0.06	13.8	9.4	0.33	402	2.33	0.01
ZZ62181		0.75	21.2	2.48	3.42	<0.05	0.04	0.12	0.022	0.05	13.4	10.5	0.36	492	2.10	0.01
ZZ62182		0.68	22.3	2.54	2.82	<0.05	0.04	0.09	0.023	0.05	12.5	9.0	0.28	483	2.89	0.01
ZZ62183		1.50	124.5	3.27	2.79	0.11	0.08	0.47	0.042	0.16	23.5	5.8	0.13	247	76.7	0.01
ZZ62184		0.94	72.7	2.87	3.46	0.06	0.07	0.29	0.025	0.07	16.7	9.9	0.32	595	7.80	0.01
ZZ62185		1.01	140.5	3.06	3.16	0.09	0.19	0.52	0.031	0.11	24.5	8.3	0.22	1020	33.7	0.01
ZZ62186		0.68	23.4	1.23	1.39	<0.05	0.06	0.12	0.013	0.05	6.9	4.4	0.22	213	2.58	0.01
ZZ62187		0.96	59.2	3.10	3.57	0.06	0.08	0.22	0.029	0.07	19.7	11.9	0.39	512	4.18	0.01
ZZ62188		1.07	80.7	2.40	1.67	0.06	0.15	0.48	0.025	0.05	14.8	5.5	1.46	699	11.85	0.02
ZZ62189		1.43	58.9	2.81	2.97	0.06	0.13	1.24	0.034	0.07	13.0	13.3	3.07	385	2.92	0.02
ZZ62190		0.66	17.3	1.02	1.17	<0.05	0.04	0.17	0.013	0.03	4.4	4.1	7.95	252	1.56	0.02
ZZ62191		1.19	27.8	1.54	1.16	0.05	0.09	0.18	0.020	0.09	4.3	1.8	0.11	104	3.18	0.01
ZZ62192		0.68	18.5	1.97	2.19	<0.05	0.03	0.04	0.023	0.09	4.6	3.7	0.10	803	2.86	0.01
ZZ62193		0.69	22.5	2.52	3.34	0.05	0.04	0.12	0.023	0.05	18.5	10.0	0.33	576	1.06	0.01
ZZ62194		1.07	17.3	3.19	3.48	<0.05	<0.02	0.04	0.029	0.05	10.4	10.1	0.18	428	2.34	0.01
ZZ62195		0.51	34.9	2.88	2.35	0.05	0.11	0.08	0.052	0.08	10.5	3.1	0.05	301	2.76	0.01
ZZ62196		0.61	19.4	2.67	2.33	0.09	0.06	0.11	0.044	0.05	26.3	8.6	0.15	334	0.67	0.01
ZZ62197		1.36	23.9	2.21	2.59	<0.05	<0.02	0.05	0.019	0.07	5.9	2.0	0.04	983	8.48	<0.01
ZZ57150		1.19	15.4	2.82	4.85	<0.05	0.02	0.03	0.026	0.05	10.0	14.6	0.29	290	3.38	0.01
ZZ57201		1.45	19.0	3.91	5.16	0.06	0.06	0.07	0.041	0.06	15.7	14.3	0.39	751	3.27	0.01
ZZ57202		0.93	134.0	3.91	3.55	0.09	0.22	0.65	0.037	0.08	26.1	10.5	0.17	827	13.40	0.01
ZZ57203		1.54	159.5	3.58	2.45	0.09	0.18	0.44	0.027	0.09	16.1	7.8	0.67	550	21.8	0.01
ZZ57204		0.70	195.5	2.74	2.47	0.12	0.29	0.51	0.042	0.12	27.2	6.6	0.07	543	31.7	0.01
ZZ57205		0.36	26.2	2.46	1.92	0.07	0.06	0.17	0.027	0.04	8.4	3.2	0.07	130	5.60	0.01
ZZ57206		0.51	35.3	2.44	2.36	<0.05	0.08	0.17	0.029	0.05	7.0	5.8	0.12	148	4.03	0.01

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Project: ATAC- Regional Area CragNorth F

**CERTIFICATE OF ANALYSIS WH12170247**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ62175		0.36	147.0	1120	13.5	6.1	0.001	0.10	2.15	2.9	2.0	0.5	38.8	<0.01	0.07	0.8
ZZ62176		0.28	79.3	980	9.4	4.7	<0.001	0.07	2.42	1.8	1.2	0.4	51.4	<0.01	0.02	0.5
ZZ62177		0.17	18.5	1120	6.7	2.9	<0.001	0.12	0.72	0.8	0.9	0.3	72.8	<0.01	0.03	0.2
ZZ62178		0.13	64.5	1070	5.6	2.9	<0.001	0.12	0.99	0.7	0.9	0.2	67.7	<0.01	0.03	0.2
ZZ62179		0.39	70.5	1140	11.0	5.1	<0.001	0.09	1.56	2.3	1.3	0.4	37.8	<0.01	0.04	0.8
ZZ62180		0.30	69.1	1390	10.6	5.2	0.001	0.13	1.30	1.3	1.4	0.4	53.2	<0.01	0.04	0.3
ZZ62181		0.42	57.6	1050	11.1	5.9	<0.001	0.11	1.17	1.7	1.3	0.4	38.3	<0.01	0.05	0.4
ZZ62182		0.32	67.4	1240	11.6	5.2	0.001	0.13	1.40	1.6	1.3	0.4	32.3	<0.01	0.04	0.4
ZZ62183		0.24	312	3200	16.1	7.9	0.001	0.23	10.55	4.6	12.8	0.9	81.2	<0.01	0.89	1.5
ZZ62184		0.44	172.0	1590	12.7	6.3	0.001	0.11	3.78	2.7	3.1	0.5	57.6	<0.01	0.11	0.7
ZZ62185		0.34	330	2270	14.7	6.4	0.002	0.17	7.67	5.1	7.2	0.6	147.5	<0.01	0.19	1.8
ZZ62186		0.18	79.3	880	6.5	3.5	0.001	0.04	1.58	2.0	1.0	0.3	146.0	<0.01	0.04	0.6
ZZ62187		0.43	143.0	1410	13.7	6.5	0.001	0.08	2.83	3.1	2.4	0.6	41.6	<0.01	0.06	0.9
ZZ62188		0.21	304	2080	9.1	3.4	0.001	0.09	5.27	3.1	3.9	0.5	151.0	<0.01	0.17	1.1
ZZ62189		0.24	273	1470	11.9	6.0	0.001	0.05	2.71	4.9	1.8	0.5	69.7	<0.01	0.06	1.7
ZZ62190		0.11	103.5	960	4.6	3.4	0.001	0.09	0.99	0.8	1.1	0.2	75.9	<0.01	0.03	0.2
ZZ62191		0.06	71.3	1430	9.2	6.1	0.001	0.13	0.86	2.3	6.5	0.3	142.0	<0.01	0.13	0.5
ZZ62192		0.16	28.6	1780	10.0	8.5	<0.001	0.10	0.86	1.2	1.8	0.4	58.3	<0.01	0.05	0.3
ZZ62193		0.43	26.7	1200	11.5	5.3	<0.001	0.08	0.65	2.5	1.4	0.4	42.7	<0.01	0.03	0.6
ZZ62194		0.30	27.0	990	13.2	7.6	<0.001	0.06	0.91	1.5	1.1	0.4	21.6	<0.01	0.05	0.4
ZZ62195		0.15	64.4	830	16.3	6.2	0.001	0.08	1.42	4.2	2.9	0.5	37.7	<0.01	0.17	1.5
ZZ62196		0.14	34.0	870	22.8	5.5	0.001	0.05	0.85	3.9	3.4	0.4	24.3	<0.01	0.29	1.3
ZZ62197		0.09	61.7	1090	10.2	8.0	<0.001	0.06	0.93	0.5	3.1	0.5	39.8	<0.01	0.04	<0.2
ZZ57150		0.56	26.8	930	14.5	6.8	<0.001	0.06	1.09	2.2	1.1	0.6	24.0	<0.01	0.05	0.8
ZZ57201		0.57	29.8	1350	27.5	9.9	0.001	0.06	1.33	3.8	1.5	0.6	31.3	<0.01	0.08	1.2
ZZ57202		0.36	515	2180	16.1	6.1	0.001	0.13	6.37	4.3	4.5	0.7	59.0	<0.01	0.21	1.0
ZZ57203		0.30	485	2160	12.5	6.0	0.001	0.12	6.67	5.5	5.6	0.5	135.5	<0.01	0.22	1.7
ZZ57204		0.19	468	2640	14.0	5.9	0.005	0.20	9.24	5.6	11.4	0.7	112.5	<0.01	0.32	1.6
ZZ57205		0.14	41.2	1560	9.0	3.8	0.009	0.08	1.26	2.7	5.2	0.4	108.0	<0.01	0.14	0.8
ZZ57206		0.24	44.7	1280	11.1	4.9	0.007	0.07	1.07	3.5	3.4	0.4	93.2	<0.01	0.20	1.5

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Project: ATAC- Regional Area CragNorth F

**CERTIFICATE OF ANALYSIS WH12170247**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ62175		0.010	0.51	1.87	67	0.15	27.4	653	2.8
ZZ62176		0.012	0.25	1.25	49	0.19	15.85	345	1.7
ZZ62177		0.011	0.08	1.30	33	0.07	10.80	160	0.7
ZZ62178		0.006	0.29	1.08	29	0.07	13.20	432	1.4
ZZ62179		0.022	0.23	1.53	58	0.25	22.7	270	1.1
ZZ62180		0.014	0.27	2.01	49	0.33	22.0	265	0.7
ZZ62181		0.016	0.23	1.27	52	0.17	17.10	270	0.9
ZZ62182		0.014	0.25	1.26	51	0.16	15.25	313	0.9
ZZ62183		0.011	7.07	18.80	249	0.27	73.4	979	3.2
ZZ62184		0.018	1.02	3.03	99	0.20	43.2	611	2.0
ZZ62185		0.014	3.40	5.14	174	0.21	138.0	806	5.8
ZZ62186		0.009	0.40	3.32	36	0.07	19.60	317	1.6
ZZ62187		0.019	0.46	1.55	80	0.32	39.1	576	2.2
ZZ62188		0.010	1.51	4.49	99	0.13	61.5	1130	4.3
ZZ62189		0.006	0.76	2.60	77	0.12	40.4	1450	3.9
ZZ62190		0.006	0.36	1.16	33	0.05	13.95	721	1.4
ZZ62191		<0.005	0.14	2.00	30	<0.05	33.1	355	2.8
ZZ62192		0.008	0.11	1.20	37	0.09	6.86	163	0.8
ZZ62193		0.018	0.10	1.74	45	0.13	30.2	109	1.0
ZZ62194		0.013	0.15	1.07	50	0.15	13.50	142	<0.5
ZZ62195		0.005	0.28	1.28	46	0.05	24.4	221	3.0
ZZ62196		0.005	0.10	1.08	37	0.10	46.6	133	1.3
ZZ62197		0.007	0.18	1.94	39	0.13	7.13	229	<0.5
ZZ57150		0.014	0.26	1.10	69	0.31	8.43	140	0.5
ZZ57201		0.014	0.33	1.93	79	0.19	18.05	141	1.5
ZZ57202		0.005	1.97	4.20	145	0.21	97.4	2370	6.0
ZZ57203		0.009	2.41	7.20	158	0.26	83.9	2080	5.8
ZZ57204		<0.005	3.28	10.50	197	0.16	139.5	1320	9.5
ZZ57205		<0.005	0.13	2.88	62	0.12	25.8	150	1.7
ZZ57206		<0.005	0.11	2.04	55	0.10	21.5	147	2.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area CragNorth F

**CERTIFICATE OF ANALYSIS WH12170247**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12179448**

Project: ATAC- Regional- Area B,D- Dale  
 P.O. No.: Soil 27  
 This report is for 198 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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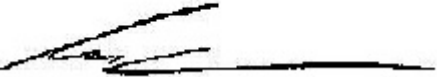
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52026		0.24	0.016	1.49	0.62	46.6	<0.2	10	590	0.62	0.18	2.08	0.67	8.97	4.7	21
ZZ52027		0.17	0.049	0.63	1.11	543	<0.2	10	330	1.33	0.18	2.60	1.16	11.60	8.8	22
ZZ52028		0.23	0.053	0.51	1.41	503	<0.2	<10	390	1.55	0.22	2.04	1.48	17.65	12.1	24
ZZ52029		0.19	0.076	0.38	1.97	322	<0.2	<10	240	1.53	0.31	1.00	3.75	30.6	12.3	33
ZZ52030		0.24	0.018	0.43	1.58	317	<0.2	<10	470	1.43	0.25	1.54	1.35	19.45	11.9	28
ZZ52031		0.26	0.003	0.33	1.13	264	<0.2	<10	270	0.99	0.19	2.03	1.03	19.75	9.7	20
ZZ52032		0.18	0.008	0.47	1.60	612	<0.2	<10	500	1.71	0.25	1.55	0.72	19.90	11.7	28
ZZ52033		0.20	0.012	0.49	1.42	490	<0.2	<10	420	1.21	0.22	1.98	0.90	16.75	9.3	26
ZZ52034		0.27	0.004	0.54	1.05	322	<0.2	<10	420	0.93	0.20	4.14	1.30	17.10	9.1	19
ZZ52035		0.22	0.002	0.91	0.82	285	<0.2	<10	230	0.95	0.17	6.39	1.57	13.45	7.5	19
ZZ52036		0.24	0.006	0.59	1.35	1200	<0.2	<10	340	1.35	0.22	2.12	1.94	16.85	14.5	25
ZZ52037		0.32	0.003	0.68	0.64	156.5	<0.2	<10	360	0.88	0.24	0.77	0.96	13.65	7.3	10
ZZ52038		0.25	0.004	1.88	0.86	138.5	<0.2	<10	150	0.38	0.23	0.04	0.40	8.54	5.1	14
ZZ52039		0.28	0.001	0.24	0.73	82.4	<0.2	<10	120	0.29	0.22	0.02	0.34	11.05	4.4	11
ZZ52040		0.20	0.004	1.02	0.69	89.4	<0.2	<10	170	0.61	0.27	0.03	0.61	17.35	6.5	12
ZZ52041		0.30	0.008	2.31	0.69	226	<0.2	<10	280	0.80	0.25	0.83	1.39	11.50	6.2	11
ZZ52042		0.34	0.002	0.70	0.90	109.5	<0.2	<10	280	0.94	0.28	2.69	1.33	17.05	12.1	15
ZZ52043		0.31	0.003	0.73	0.90	92.6	<0.2	<10	340	1.01	0.28	0.82	1.98	18.25	11.1	16
ZZ52044		0.26	0.005	0.79	0.82	94.8	<0.2	<10	290	0.90	0.25	0.93	1.47	16.55	9.6	15
ZZ52045		0.29	0.015	2.28	0.86	234	<0.2	10	1120	0.87	0.21	1.43	3.89	12.40	7.1	30
ZZ52046		0.21	0.002	0.75	0.85	196.0	<0.2	<10	390	0.78	0.18	2.40	3.83	17.60	9.7	14
ZZ52047		0.38	0.002	0.62	0.89	210	<0.2	<10	420	0.95	0.17	2.28	7.67	20.4	9.5	15
ZZ52048		0.29	0.001	0.55	1.01	342	<0.2	<10	320	1.01	0.20	1.66	13.25	25.4	10.7	17
ZZ52049		0.20	<0.001	0.47	0.76	373	<0.2	<10	190	0.73	0.16	4.94	8.06	17.20	8.9	13
ZZ52050		0.20	0.005	1.15	1.46	153.5	<0.2	<10	310	1.63	0.28	1.17	6.17	44.6	18.9	22
ZZ52051		0.27	0.002	0.72	0.54	89.3	<0.2	<10	220	0.83	0.18	2.90	2.74	30.2	9.9	10
ZZ52052		0.24	0.003	0.72	1.23	58.3	<0.2	<10	520	0.98	0.22	1.46	7.23	18.05	9.5	24
ZZ52053		0.27	0.003	0.58	1.17	53.6	<0.2	<10	420	0.87	0.21	1.70	4.34	14.50	8.2	22
ZZ52054		0.29	0.001	0.47	1.37	28.5	<0.2	<10	530	0.86	0.27	0.96	1.85	16.35	10.9	23
ZZ52055		0.27	0.005	0.47	1.10	45.5	<0.2	<10	230	0.49	0.28	0.40	1.32	12.55	10.7	23
ZZ52056		0.25	0.003	0.56	0.50	8.6	<0.2	<10	430	0.47	0.10	4.65	2.99	12.00	3.6	22
ZZ52057		0.36	0.002	0.11	1.92	17.9	<0.2	<10	260	0.92	0.35	0.36	0.36	23.3	14.3	26
ZZ52058		0.34	<0.001	0.26	1.82	34.0	<0.2	<10	310	0.87	0.33	0.53	4.50	20.8	14.4	30
ZZ52059		0.29	0.002	0.10	1.73	23.0	<0.2	<10	270	0.79	0.31	0.31	0.26	20.5	14.4	24
ZZ52060		0.23	<0.001	0.42	1.44	35.9	<0.2	<10	130	0.87	0.34	0.25	1.59	20.8	18.1	23
ZZ52061		0.22	0.002	0.59	1.02	18.3	<0.2	<10	380	0.81	0.23	1.60	1.73	14.40	7.1	15
ZZ52062		0.26	0.002	0.13	1.47	28.6	<0.2	<10	440	0.95	0.29	1.12	0.34	17.80	10.8	27
ZZ52063		0.30	<0.001	0.08	1.55	13.0	<0.2	<10	60	0.54	0.43	<0.01	0.09	12.65	7.9	21
ZZ52064		0.26	<0.001	0.09	1.42	18.5	<0.2	<10	370	0.98	0.33	0.49	0.45	17.45	8.2	22
ZZ52065		0.35	0.001	0.10	1.03	11.9	<0.2	<10	270	1.14	0.37	1.09	0.20	15.05	11.0	16



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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ52026		1.41	24.9	1.96	1.81	0.05	0.05	0.29	0.030	0.06	9.0	3.9	0.08	180	2.02	0.02
ZZ52027		2.42	34.1	2.50	3.15	<0.05	0.05	1.13	0.029	0.08	8.1	9.5	0.22	359	1.96	0.01
ZZ52028		2.57	38.5	2.76	4.21	0.05	0.06	1.06	0.036	0.08	10.7	13.5	0.31	508	2.13	0.01
ZZ52029		2.12	22.4	3.82	5.68	<0.05	0.03	1.38	0.039	0.07	12.2	14.1	0.32	1140	2.26	0.01
ZZ52030		2.09	39.6	3.07	4.58	0.06	0.06	0.68	0.036	0.09	11.7	13.1	0.33	647	1.81	0.02
ZZ52031		1.45	28.3	2.80	3.32	<0.05	0.05	0.65	0.028	0.07	9.2	11.4	0.47	561	2.15	0.01
ZZ52032		3.28	45.9	3.13	4.64	0.05	0.09	0.69	0.033	0.10	11.0	14.5	0.31	446	1.85	0.02
ZZ52033		3.18	36.7	2.66	4.09	<0.05	0.06	0.53	0.028	0.08	9.6	11.9	0.29	434	1.57	0.02
ZZ52034		1.55	28.8	2.60	3.07	<0.05	0.05	1.03	0.030	0.07	9.1	10.3	1.86	578	1.98	0.02
ZZ52035		1.85	23.9	2.23	2.43	<0.05	0.04	1.19	0.028	0.08	8.1	7.0	2.87	223	2.88	0.02
ZZ52036		3.16	43.5	3.46	3.99	0.05	0.07	1.42	0.035	0.10	9.8	12.0	0.37	479	4.02	0.01
ZZ52037		4.68	56.1	2.56	2.20	0.05	0.06	0.44	0.039	0.11	5.9	4.2	0.11	240	4.24	0.01
ZZ52038		12.90	27.4	2.27	3.44	<0.05	<0.02	0.61	0.031	0.09	4.2	3.9	0.09	183	3.37	<0.01
ZZ52039		6.00	29.0	1.91	3.73	<0.05	<0.02	0.10	0.025	0.07	5.3	2.1	0.05	89	3.68	0.01
ZZ52040		9.81	48.3	2.54	3.00	0.06	<0.02	0.35	0.034	0.09	7.4	5.2	0.09	152	3.33	0.01
ZZ52041		11.00	48.5	2.19	2.21	0.06	0.04	1.11	0.035	0.11	4.8	4.7	0.21	301	2.88	0.01
ZZ52042		4.19	54.6	3.29	3.02	<0.05	0.07	0.55	0.035	0.13	7.8	10.3	1.38	866	2.47	0.02
ZZ52043		4.31	52.7	2.99	2.98	<0.05	0.08	0.53	0.036	0.12	8.3	9.5	0.31	794	3.63	0.02
ZZ52044		4.61	51.7	2.70	2.86	<0.05	0.06	0.51	0.034	0.12	8.1	8.9	0.35	401	2.92	0.01
ZZ52045		2.26	50.5	2.69	2.84	<0.05	0.05	0.88	0.035	0.07	7.8	7.7	0.17	206	6.02	0.02
ZZ52046		1.32	31.9	2.07	2.51	<0.05	0.06	0.31	0.023	0.07	10.8	8.3	0.22	706	3.36	0.02
ZZ52047		1.83	54.0	2.05	2.74	0.06	0.06	0.27	0.028	0.08	12.4	10.2	0.30	384	4.80	0.01
ZZ52048		1.35	54.2	2.73	2.94	0.06	0.06	0.19	0.031	0.08	15.5	10.5	0.25	299	7.47	0.01
ZZ52049		0.87	35.1	2.34	1.86	0.05	0.05	0.18	0.024	0.09	11.0	6.3	1.64	221	7.12	0.01
ZZ52050		1.41	46.4	3.99	3.39	0.09	0.09	0.24	0.056	0.11	25.2	16.1	0.45	633	9.96	0.01
ZZ52051		1.39	27.5	2.43	1.60	0.06	0.04	0.13	0.029	0.13	18.6	4.5	0.37	254	4.21	0.01
ZZ52052		1.57	47.1	2.57	3.96	0.06	0.05	0.22	0.032	0.08	12.4	16.5	0.39	187	12.80	0.02
ZZ52053		1.55	42.9	2.32	3.79	0.06	0.06	0.29	0.033	0.07	8.8	14.3	0.32	307	8.57	0.01
ZZ52054		2.14	44.5	2.91	4.86	0.05	0.06	0.20	0.034	0.08	7.5	21.1	0.37	412	5.40	0.01
ZZ52055		1.06	26.8	3.32	4.96	<0.05	0.03	0.06	0.030	0.10	6.0	16.1	0.26	292	13.70	0.01
ZZ52056		0.39	27.6	0.84	1.42	<0.05	0.04	0.19	0.013	0.03	14.4	3.2	0.19	280	1.89	<0.01
ZZ52057		1.90	36.7	4.22	6.01	0.05	0.04	0.08	0.036	0.09	11.1	32.1	0.39	645	1.36	<0.01
ZZ52058		1.86	53.7	4.42	5.40	0.05	0.03	0.15	0.035	0.10	9.3	29.2	0.50	572	13.20	<0.01
ZZ52059		1.67	32.5	4.07	5.36	<0.05	0.03	0.07	0.036	0.08	9.3	32.5	0.43	508	2.61	<0.01
ZZ52060		1.44	43.0	4.42	4.51	<0.05	0.03	0.10	0.039	0.10	8.0	21.8	0.37	821	5.27	<0.01
ZZ52061		1.34	37.0	2.52	3.06	0.05	0.07	0.13	0.030	0.12	6.3	13.9	0.35	174	3.26	<0.01
ZZ52062		0.95	26.7	3.55	4.45	<0.05	0.06	0.12	0.032	0.09	7.8	22.8	0.49	612	0.93	0.03
ZZ52063		1.23	22.5	4.16	7.49	<0.05	0.03	0.03	0.029	0.12	5.7	10.0	0.19	324	0.81	0.02
ZZ52064		0.93	22.7	3.59	4.34	0.05	0.07	0.11	0.035	0.12	7.7	19.0	0.36	502	0.63	0.02
ZZ52065		1.00	23.0	3.59	3.46	<0.05	0.05	0.11	0.037	0.13	6.6	11.5	0.30	889	0.52	0.02

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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52026		0.14	32.1	830	15.9	7.6	0.001	0.10	0.86	2.8	2.6	0.4	42.4	<0.01	0.08	0.5
ZZ52027		0.32	78.1	1080	40.2	9.3	<0.001	0.12	1.74	2.3	2.1	0.5	35.2	<0.01	0.04	0.4
ZZ52028		0.49	73.7	1000	38.0	10.3	<0.001	0.09	1.81	3.0	2.0	0.5	30.6	<0.01	0.07	0.8
ZZ52029		0.79	48.0	640	43.9	12.4	0.001	0.05	1.50	5.2	0.9	0.7	22.1	<0.01	0.04	1.5
ZZ52030		0.42	56.1	1150	38.3	9.6	0.001	0.08	1.37	3.3	1.7	0.6	26.4	<0.01	0.08	0.9
ZZ52031		0.30	41.2	790	27.3	7.6	0.001	0.06	1.35	2.5	1.2	0.4	22.6	<0.01	0.04	0.9
ZZ52032		0.48	76.6	1000	42.9	11.3	<0.001	0.07	1.63	3.7	1.6	0.5	32.9	<0.01	0.05	1.4
ZZ52033		0.45	58.4	1170	34.2	10.8	<0.001	0.10	1.40	2.4	1.4	0.5	30.6	<0.01	0.04	0.7
ZZ52034		0.32	40.6	940	33.0	7.5	0.001	0.07	1.22	2.9	1.4	0.4	34.4	<0.01	0.07	0.9
ZZ52035		0.25	44.2	970	42.1	7.3	0.001	0.08	1.80	2.9	2.3	0.4	50.8	<0.01	0.06	0.9
ZZ52036		0.35	106.5	1300	39.6	11.0	<0.001	0.10	2.21	3.0	2.5	0.6	33.8	<0.01	0.05	1.0
ZZ52037		0.16	35.7	810	28.3	13.7	0.002	0.04	2.25	3.8	2.7	0.5	20.9	<0.01	0.11	2.5
ZZ52038		0.29	22.5	630	52.4	23.3	0.001	0.03	2.09	1.8	1.3	0.5	8.4	<0.01	0.08	1.4
ZZ52039		0.25	20.2	420	34.0	13.5	0.001	0.02	1.69	1.7	1.4	0.6	7.9	<0.01	0.06	1.2
ZZ52040		0.24	24.4	480	26.8	20.4	0.002	0.02	1.97	3.2	2.0	0.5	11.7	<0.01	0.06	2.0
ZZ52041		0.18	27.9	890	42.8	21.0	0.003	0.08	2.32	3.9	7.7	0.5	31.4	<0.01	0.05	1.9
ZZ52042		0.20	36.8	840	43.9	11.9	0.001	0.05	1.57	5.6	1.9	0.5	35.3	<0.01	0.07	3.5
ZZ52043		0.23	46.3	880	60.7	13.7	0.002	0.06	1.92	5.1	2.5	0.5	29.0	<0.01	0.07	3.1
ZZ52044		0.28	37.2	810	43.1	12.8	0.002	0.05	1.77	4.8	2.4	0.5	25.0	<0.01	0.08	2.7
ZZ52045		0.22	54.4	1310	41.9	9.5	0.005	0.09	3.00	4.2	4.1	0.5	79.6	<0.01	0.09	1.1
ZZ52046		0.23	53.3	950	35.5	8.8	0.003	0.12	2.61	2.1	3.8	0.3	43.7	<0.01	0.03	0.7
ZZ52047		0.24	67.8	810	14.7	8.5	0.003	0.09	3.03	3.0	3.6	0.4	53.9	<0.01	0.04	0.9
ZZ52048		0.23	87.7	590	16.3	8.3	0.003	0.07	2.63	3.6	4.1	0.4	33.2	<0.01	0.04	1.3
ZZ52049		0.18	71.1	820	15.5	6.3	0.001	0.08	2.53	2.4	1.9	0.3	44.8	<0.01	0.04	1.2
ZZ52050		0.20	81.2	660	26.9	11.1	0.002	0.06	3.73	7.8	3.2	0.4	33.8	0.01	0.09	5.2
ZZ52051		0.10	47.0	750	13.3	8.3	0.002	0.07	1.55	3.8	2.0	0.3	43.4	<0.01	0.03	1.9
ZZ52052		0.44	80.0	760	13.3	8.1	0.003	0.07	3.93	4.0	3.5	0.5	39.4	<0.01	0.08	1.1
ZZ52053		0.32	92.2	1090	16.0	12.4	0.009	0.12	3.74	2.9	5.8	0.5	43.5	<0.01	0.04	0.7
ZZ52054		0.34	40.1	830	19.2	12.2	0.010	0.08	3.84	4.0	4.9	0.5	35.7	<0.01	0.07	1.3
ZZ52055		0.47	30.7	540	32.0	9.5	0.001	0.09	6.11	2.7	2.3	0.7	26.4	<0.01	0.14	1.7
ZZ52056		0.19	52.2	1100	5.1	3.7	0.005	0.14	1.63	0.9	3.9	0.2	115.5	<0.01	0.03	0.2
ZZ52057		0.34	27.7	490	19.9	13.6	0.001	0.02	0.70	4.5	0.6	0.6	17.6	<0.01	0.08	2.4
ZZ52058		0.25	67.1	390	26.5	11.0	0.001	0.02	3.55	4.6	2.6	0.5	23.0	<0.01	0.08	2.5
ZZ52059		0.39	25.4	550	22.7	11.3	<0.001	0.03	0.73	4.3	1.0	0.6	17.7	<0.01	0.05	2.4
ZZ52060		0.47	31.9	620	31.7	10.6	0.001	0.02	3.08	4.3	1.7	0.6	13.6	<0.01	0.06	2.9
ZZ52061		0.27	26.7	730	15.0	10.1	0.005	0.10	2.53	3.4	3.3	0.4	42.0	<0.01	0.03	0.9
ZZ52062		0.45	23.8	840	29.3	10.2	<0.001	0.07	0.56	3.9	1.1	0.6	53.6	<0.01	0.05	1.2
ZZ52063		0.52	12.5	350	24.2	19.1	<0.001	0.02	0.34	3.4	0.6	1.0	6.3	<0.01	0.04	3.3
ZZ52064		0.41	18.7	770	24.9	17.4	<0.001	0.05	0.33	4.4	1.0	0.6	22.5	<0.01	0.04	2.1
ZZ52065		0.32	19.6	560	26.7	11.5	<0.001	0.06	0.24	3.7	0.7	0.6	27.8	<0.01	0.02	1.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52026		<0.005	0.21	1.37	41	0.07	23.7	135	1.3
ZZ52027		0.005	0.71	3.68	60	0.59	20.5	401	1.8
ZZ52028		0.008	0.62	4.19	65	0.57	22.1	322	2.0
ZZ52029		0.018	0.59	1.67	89	0.40	15.45	327	1.1
ZZ52030		0.008	0.44	2.62	74	0.39	21.5	285	1.7
ZZ52031		0.007	0.32	1.78	60	0.24	13.55	218	1.2
ZZ52032		0.007	0.57	3.52	69	0.85	18.90	366	2.3
ZZ52033		0.008	0.42	3.47	59	0.71	15.20	310	1.8
ZZ52034		0.009	0.28	1.64	50	0.30	13.70	257	1.3
ZZ52035		0.007	0.43	2.00	45	0.49	16.15	337	1.3
ZZ52036		0.006	0.72	3.79	73	0.51	19.95	644	2.0
ZZ52037		<0.005	0.46	1.95	48	0.11	13.25	203	1.4
ZZ52038		<0.005	0.73	0.87	61	0.14	2.46	162	<0.5
ZZ52039		0.006	0.42	0.69	64	0.12	2.33	145	<0.5
ZZ52040		0.007	0.44	1.08	48	0.10	11.80	168	<0.5
ZZ52041		<0.005	0.71	1.54	45	0.26	12.55	194	1.3
ZZ52042		<0.005	0.59	1.43	45	0.12	12.85	250	2.0
ZZ52043		<0.005	0.48	1.91	55	0.10	15.45	292	2.2
ZZ52044		0.005	0.49	1.42	49	0.13	14.20	239	2.0
ZZ52045		<0.005	0.71	2.27	120	0.18	21.8	383	1.6
ZZ52046		<0.005	0.69	2.53	89	0.08	16.95	388	1.7
ZZ52047		0.005	0.64	2.78	94	0.11	26.3	503	1.7
ZZ52048		<0.005	0.51	2.08	105	0.10	29.6	1020	1.7
ZZ52049		0.005	0.37	1.72	88	0.11	23.4	946	1.4
ZZ52050		<0.005	0.71	1.86	102	0.10	31.4	511	3.0
ZZ52051		<0.005	0.31	1.49	41	0.05	22.6	295	1.5
ZZ52052		0.009	0.54	2.87	139	0.14	27.6	591	1.6
ZZ52053		0.005	1.02	7.68	239	0.10	17.85	388	2.2
ZZ52054		0.005	0.40	3.22	125	0.09	11.05	226	1.8
ZZ52055		0.008	0.87	1.23	171	0.16	3.92	175	1.5
ZZ52056		0.006	0.09	5.20	72	0.05	17.85	223	1.4
ZZ52057		0.005	0.19	1.46	55	0.09	7.25	118	1.3
ZZ52058		<0.005	0.54	3.23	298	0.10	8.26	398	1.3
ZZ52059		0.006	0.18	0.88	46	0.10	7.06	110	1.1
ZZ52060		0.008	0.33	1.02	51	0.11	7.60	285	1.1
ZZ52061		0.005	0.26	2.77	31	<0.05	9.89	216	1.9
ZZ52062		0.010	0.22	1.38	36	0.14	8.10	178	1.2
ZZ52063		0.008	0.21	0.50	40	0.06	3.90	66	0.8
ZZ52064		0.006	0.18	0.96	30	0.08	8.00	174	1.4
ZZ52065		0.005	0.16	1.02	20	<0.05	7.59	87	0.9



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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52066		0.26	0.005	0.66	0.80	93.7	<0.2	10	710	0.56	0.16	3.59	2.37	9.68	4.3	14
ZZ52067		0.28	0.008	1.44	0.75	170.0	<0.2	<10	730	0.80	0.23	2.41	2.32	13.50	5.1	18
ZZ52068		0.21	0.001	0.21	0.70	53.1	<0.2	<10	780	0.63	0.10	5.33	5.55	7.10	3.6	11
ZZ52069		0.21	0.003	0.48	1.31	203	<0.2	<10	420	0.97	0.22	1.15	4.35	21.3	8.8	25
ZZ52070		0.21	0.002	0.27	1.62	175.0	<0.2	<10	270	0.93	0.25	1.18	1.79	23.1	8.6	27
ZZ52071		0.22	0.002	0.18	1.90	619	<0.2	<10	300	1.37	0.30	1.19	4.88	26.1	10.8	30
ZZ52072		0.21	0.001	0.29	1.65	158.0	<0.2	<10	250	0.83	0.28	1.95	7.22	27.6	10.7	26
ZZ52073		0.28	<0.001	0.35	1.63	84.5	<0.2	<10	210	0.78	0.26	1.85	2.31	26.2	9.1	27
ZZ52074		0.27	0.006	0.16	1.30	214	<0.2	<10	160	0.52	0.30	1.34	3.10	20.5	6.9	20
ZZ52075		0.20	<0.001	0.20	2.06	189.0	<0.2	<10	190	1.25	0.26	1.64	2.43	36.6	10.6	34
ZZ52076		0.24	0.007	0.54	1.26	299	<0.2	<10	200	0.93	0.21	2.62	3.80	24.9	9.6	25
ZZ52077		0.27	0.004	0.45	1.51	247	<0.2	<10	240	0.91	0.23	2.02	1.73	23.2	9.1	26
ZZ52078		0.26	0.022	0.20	1.06	232	<0.2	<10	150	0.78	0.19	3.16	3.69	11.50	6.4	17
ZZ52079		0.21	0.021	0.73	0.87	252	<0.2	<10	380	0.88	0.19	1.84	1.56	11.75	6.4	13
ZZ52080		0.25	0.005	2.28	0.44	595	<0.2	<10	140	0.39	0.24	0.02	0.54	11.45	3.3	9
ZZ52081		0.30	0.017	2.65	0.70	275	<0.2	<10	380	0.90	0.26	0.72	2.50	17.40	6.3	13
ZZ52082		0.25	0.008	1.00	0.72	214	<0.2	<10	370	0.86	0.23	1.09	1.58	12.05	5.6	12
ZZ52083		0.34	0.006	0.91	0.83	263	<0.2	<10	390	0.83	0.24	0.85	1.40	13.15	8.2	14
ZZ52084		0.24	0.012	0.74	1.11	355	<0.2	<10	700	0.79	0.21	1.61	2.81	15.25	6.7	22
ZZ52085		0.20	0.015	1.10	1.27	380	<0.2	<10	690	1.02	0.21	1.38	4.04	19.95	8.6	27
ZZ52086		0.26	0.018	0.85	1.05	497	<0.2	<10	450	0.89	0.17	3.15	16.35	16.55	8.1	31
ZZ52087		0.20	0.019	1.10	1.14	467	<0.2	<10	320	1.08	0.21	2.73	14.65	22.4	7.2	48
ZZ52088		0.26	0.031	0.77	0.83	341	<0.2	<10	390	0.89	0.14	3.51	15.40	17.70	5.8	37
ZZ52089		0.21	0.005	0.54	0.93	460	<0.2	<10	270	0.75	0.19	1.38	5.62	25.5	9.0	38
ZZ52090		0.21	0.007	0.42	0.70	704	<0.2	<10	150	0.38	0.15	0.41	6.55	12.55	7.0	32
ZZ52091		0.23	0.002	1.09	1.75	109.5	<0.2	<10	660	1.26	0.23	0.98	3.77	29.1	6.0	40
ZZ52092		0.30	0.004	0.20	1.53	69.1	<0.2	<10	430	0.82	0.23	1.22	2.51	20.8	8.0	24
ZZ52093		0.32	0.005	0.22	1.73	41.8	<0.2	<10	400	0.76	0.24	0.39	0.74	24.1	8.4	27
ZZ52094		0.27	0.003	1.04	1.34	59.4	<0.2	<10	290	1.32	0.23	1.25	5.33	36.9	9.9	37
ZZ52095		0.23	0.002	0.53	1.76	35.5	<0.2	<10	240	1.06	0.26	0.62	0.97	36.9	9.0	47
ZZ52096		0.25	0.003	0.55	0.95	15.6	<0.2	<10	150	0.37	0.21	1.03	0.89	21.5	4.2	43
ZZ52097		0.30	0.004	0.70	1.20	198.0	<0.2	<10	210	0.95	0.22	2.30	5.22	36.1	9.8	59
ZZ52098		0.21	0.021	1.37	0.66	93.8	<0.2	<10	370	0.72	0.13	3.15	5.84	17.25	4.1	46
ZZ52099		0.24	0.007	1.84	0.69	43.0	<0.2	10	270	0.97	0.16	5.75	10.40	29.3	6.6	53
ZZ52100		0.27	0.004	0.16	1.20	23.5	<0.2	<10	210	1.03	0.28	0.65	0.23	18.20	11.2	19
ZZ53718		0.19	<0.001	0.10	1.61	96.1	<0.2	<10	240	0.82	0.26	1.23	1.01	24.5	7.0	28
ZZ53719		0.21	<0.001	0.41	1.37	61.6	<0.2	<10	290	0.66	0.20	2.27	1.06	19.85	7.5	23
ZZ53720		0.22	0.003	0.27	0.58	59.9	<0.2	<10	230	0.30	0.19	1.09	0.36	8.58	3.2	16
ZZ53721		0.31	0.011	0.81	1.45	256	<0.2	<10	360	1.01	0.25	1.20	0.60	22.7	10.0	27
ZZ53722		0.18	0.017	0.55	1.24	283	<0.2	<10	250	0.93	0.22	2.38	1.60	21.1	8.1	23



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52066		1.76	24.1	1.68	2.28	0.05	0.07	0.74	0.019	0.06	5.7	4.7	0.15	329	1.31	0.03
ZZ52067		2.51	35.4	2.81	2.57	0.06	0.07	1.05	0.035	0.15	8.3	7.2	0.49	148	18.90	0.03
ZZ52068		1.32	17.0	0.97	1.82	<0.05	0.03	0.29	0.014	0.04	4.9	3.4	0.10	147	2.25	0.03
ZZ52069		0.61	23.6	2.87	3.90	0.07	0.07	0.96	0.030	0.14	12.8	9.4	0.25	432	5.36	0.02
ZZ52070		1.29	16.6	2.90	4.73	<0.05	0.04	0.39	0.034	0.07	10.6	10.4	0.33	547	3.54	0.02
ZZ52071		1.79	20.4	3.65	6.11	0.05	0.03	0.75	0.036	0.07	13.0	12.3	0.32	876	8.97	0.02
ZZ52072		1.32	18.1	2.90	5.26	0.07	0.02	0.37	0.029	0.05	18.2	10.7	0.28	981	3.41	0.03
ZZ52073		1.45	16.8	2.64	4.59	0.05	0.02	0.37	0.028	0.05	15.2	9.9	0.33	656	1.75	0.02
ZZ52074		1.75	9.9	2.48	5.99	<0.05	<0.02	0.17	0.023	0.04	9.0	8.3	0.22	452	2.03	0.02
ZZ52075		2.12	15.2	3.14	5.00	0.06	0.03	0.39	0.037	0.06	13.9	13.4	0.34	659	7.02	0.03
ZZ52076		1.39	26.8	2.83	3.48	0.06	0.03	0.44	0.025	0.08	14.1	10.0	0.49	523	4.47	0.03
ZZ52077		1.68	22.7	2.80	4.16	0.06	0.02	0.36	0.030	0.07	11.7	10.7	0.41	439	4.12	0.03
ZZ52078		1.47	15.7	1.89	2.85	<0.05	0.04	0.48	0.019	0.05	6.5	5.9	0.16	323	3.65	0.03
ZZ52079		1.77	37.9	1.94	2.42	<0.05	0.05	0.80	0.026	0.08	5.9	4.9	0.16	378	2.96	0.03
ZZ52080		3.56	31.4	1.83	2.27	0.05	<0.02	0.43	0.025	0.11	5.2	1.0	0.02	47	5.27	0.02
ZZ52081		4.99	69.9	1.64	2.36	0.06	0.06	1.26	0.038	0.12	6.9	3.7	0.09	269	3.97	0.02
ZZ52082		2.98	54.7	1.88	2.24	0.05	0.06	0.67	0.033	0.10	5.8	4.9	0.15	143	2.64	0.02
ZZ52083		2.13	40.4	2.27	2.60	<0.05	0.05	0.47	0.033	0.10	5.9	5.8	0.17	401	3.89	0.02
ZZ52084		1.36	30.5	2.19	3.23	<0.05	0.06	1.24	0.027	0.08	8.0	8.6	0.24	342	1.79	0.02
ZZ52085		1.96	37.0	2.67	3.78	0.07	0.06	1.39	0.033	0.09	11.2	11.0	0.28	373	2.45	0.03
ZZ52086		1.33	48.6	2.06	3.08	0.07	0.04	1.69	0.024	0.09	15.4	7.5	0.24	345	18.15	0.03
ZZ52087		1.95	60.0	2.19	3.56	0.09	0.04	1.56	0.025	0.08	23.0	7.0	0.15	221	23.7	0.03
ZZ52088		1.56	51.8	1.49	2.65	0.09	0.04	0.99	0.018	0.06	22.7	5.2	0.13	239	14.50	0.03
ZZ52089		1.20	30.4	2.40	3.43	0.08	0.04	1.49	0.028	0.06	18.3	7.0	0.12	209	24.2	0.02
ZZ52090		1.31	28.4	2.20	3.68	0.06	0.02	7.43	0.020	0.06	9.4	3.9	0.06	216	32.9	0.02
ZZ52091		1.86	31.5	2.40	5.60	0.08	0.03	0.22	0.044	0.04	27.1	11.4	0.16	560	36.8	0.02
ZZ52092		1.89	20.2	2.67	4.53	0.05	0.06	0.09	0.032	0.07	10.2	10.6	0.25	461	4.63	0.02
ZZ52093		2.23	18.7	2.84	5.35	0.05	0.06	0.08	0.030	0.08	11.3	14.2	0.37	311	5.39	0.02
ZZ52094		1.37	43.9	3.27	3.72	0.09	0.07	0.26	0.032	0.08	29.1	14.0	0.36	333	13.65	0.02
ZZ52095		1.66	34.3	3.16	5.55	0.07	0.04	0.11	0.033	0.06	22.4	16.2	0.27	301	5.21	0.02
ZZ52096		1.10	19.3	1.58	4.57	0.05	0.02	0.11	0.019	0.04	16.4	7.8	0.09	132	2.18	0.02
ZZ52097		1.10	56.8	2.73	4.13	0.12	0.04	0.31	0.028	0.09	33.2	12.6	0.38	301	15.90	0.02
ZZ52098		1.07	57.7	1.32	2.68	0.09	0.05	0.35	0.024	0.05	20.7	5.0	0.21	112	24.4	0.01
ZZ52099		1.04	88.7	1.71	3.18	0.12	0.05	0.38	0.026	0.11	25.9	7.1	1.87	137	37.8	0.02
ZZ52100		2.20	32.5	3.02	3.98	0.06	0.10	0.06	0.035	0.11	6.8	20.0	0.38	417	0.92	0.01
ZZ53718		1.60	11.0	2.62	5.52	0.05	0.03	0.10	0.028	0.04	11.9	11.8	0.31	424	1.05	0.01
ZZ53719		1.28	22.5	2.15	3.75	0.05	0.02	0.15	0.023	0.04	10.8	9.4	0.28	420	1.46	0.01
ZZ53720		2.18	16.2	1.63	2.99	0.05	0.02	0.06	0.019	0.05	4.4	3.0	0.07	104	2.57	0.01
ZZ53721		3.66	29.1	2.81	4.53	0.08	0.06	0.38	0.038	0.08	12.2	13.9	0.37	366	2.56	0.02
ZZ53722		1.66	23.9	2.58	3.53	0.05	0.03	0.46	0.026	0.07	14.0	8.7	0.23	608	2.40	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area B,D- Dale

**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52066		0.36	29.5	1030	30.1	7.2	0.007	0.16	3.00	1.4	3.1	0.4	41.8	<0.01	0.06	0.6
ZZ52067		0.33	47.7	1250	40.7	10.6	0.002	0.23	6.52	3.1	4.8	0.6	100.5	<0.01	0.16	1.6
ZZ52068		0.31	25.5	1140	14.1	4.2	<0.001	0.19	0.95	0.5	1.5	0.3	36.2	<0.01	0.04	<0.2
ZZ52069		0.48	52.9	540	95.8	7.2	0.001	0.06	3.37	4.6	2.8	0.5	23.8	<0.01	0.07	1.7
ZZ52070		0.73	37.3	470	52.1	10.6	<0.001	0.05	1.65	3.3	1.2	0.6	20.0	<0.01	0.06	1.3
ZZ52071		0.67	50.3	670	53.3	10.8	<0.001	0.06	2.85	6.6	2.0	0.7	17.2	<0.01	0.06	0.9
ZZ52072		0.68	26.3	1210	35.1	9.2	<0.001	0.10	1.82	1.5	1.5	0.6	23.1	<0.01	0.04	0.3
ZZ52073		0.73	28.0	1290	20.9	8.6	0.001	0.09	1.03	1.9	1.2	0.5	26.4	<0.01	0.05	0.5
ZZ52074		0.96	28.4	720	37.6	7.8	<0.001	0.08	1.00	1.7	1.1	0.7	15.8	<0.01	0.05	0.5
ZZ52075		0.84	45.4	1150	22.8	10.6	0.003	0.10	1.14	2.4	2.0	0.6	18.0	<0.01	0.06	0.8
ZZ52076		0.52	49.5	1210	43.9	8.5	0.001	0.10	2.39	2.5	2.3	0.4	38.4	<0.01	0.08	0.7
ZZ52077		0.52	53.8	1150	36.2	9.6	<0.001	0.11	1.69	1.8	1.8	0.5	27.1	<0.01	0.09	0.4
ZZ52078		0.46	34.8	1490	28.2	7.5	0.003	0.18	1.44	1.2	1.2	0.3	26.1	<0.01	0.03	0.3
ZZ52079		0.30	30.0	1020	29.8	9.0	0.001	0.11	2.09	2.1	2.1	0.4	28.7	<0.01	0.05	0.8
ZZ52080		0.21	21.2	700	246	10.7	0.001	0.11	5.03	2.0	1.7	0.5	28.2	<0.01	0.05	1.4
ZZ52081		0.26	36.2	1010	105.0	12.5	0.002	0.10	3.74	4.9	2.9	0.5	45.6	<0.01	0.07	2.4
ZZ52082		0.28	33.3	800	46.5	10.6	0.001	0.06	2.38	3.6	2.2	0.5	25.2	<0.01	0.06	2.1
ZZ52083		0.29	28.1	840	74.9	10.3	0.001	0.05	2.42	3.7	2.3	0.5	25.2	<0.01	0.09	2.1
ZZ52084		0.37	32.6	1050	69.8	8.6	0.001	0.11	2.12	2.3	2.3	0.4	34.5	<0.01	0.06	0.8
ZZ52085		0.41	42.0	1290	90.9	13.3	0.003	0.10	2.58	3.5	3.2	0.5	51.8	<0.01	0.06	1.0
ZZ52086		0.37	126.5	1270	45.3	7.4	<0.001	0.16	7.17	1.4	6.4	0.5	34.0	<0.01	0.07	0.3
ZZ52087		0.37	156.0	1650	37.5	7.9	0.003	0.13	7.76	2.1	7.8	0.5	32.9	<0.01	0.10	0.5
ZZ52088		0.31	137.5	1300	19.5	6.3	0.002	0.14	5.51	1.2	6.9	0.4	49.3	<0.01	0.09	0.3
ZZ52089		0.39	127.5	750	26.1	7.5	0.003	0.08	6.71	3.5	5.0	0.5	45.3	<0.01	0.11	1.4
ZZ52090		0.22	166.5	680	13.7	6.5	0.001	0.06	10.30	2.6	3.3	0.6	31.4	<0.01	0.11	0.9
ZZ52091		0.52	108.0	1300	16.2	6.7	0.001	0.09	1.80	2.6	3.6	0.7	23.9	<0.01	0.12	0.5
ZZ52092		0.49	32.7	1780	19.5	12.0	<0.001	0.13	1.45	2.4	1.7	0.5	35.1	<0.01	0.03	0.7
ZZ52093		0.57	37.7	1400	14.5	13.8	0.001	0.08	1.14	2.8	1.3	0.6	17.2	<0.01	0.03	1.0
ZZ52094		0.37	95.3	940	19.4	9.7	0.002	0.07	3.29	5.2	5.4	0.5	33.0	<0.01	0.07	1.8
ZZ52095		0.51	52.9	850	17.4	12.6	0.001	0.05	1.54	3.7	2.8	0.7	25.0	<0.01	0.09	1.7
ZZ52096		0.38	30.2	650	13.2	8.0	0.002	0.06	0.93	1.7	2.3	0.6	27.2	<0.01	0.06	0.8
ZZ52097		0.51	152.0	2470	14.4	7.3	0.002	0.06	7.01	4.9	6.3	0.5	50.1	<0.01	0.12	1.8
ZZ52098		0.26	153.5	1460	7.8	5.8	0.005	0.12	7.27	1.7	11.4	0.4	64.6	<0.01	0.11	0.4
ZZ52099		0.25	146.5	2200	10.1	9.4	0.004	0.04	11.85	3.9	7.3	0.5	112.0	<0.01	0.10	1.4
ZZ52100		0.31	26.2	590	15.6	11.8	0.001	0.01	0.58	5.6	0.3	0.5	25.4	<0.01	0.04	2.9
ZZ53718		0.96	22.3	430	17.6	8.0	<0.001	<0.01	0.62	3.5	0.5	0.6	16.4	<0.01	0.03	1.7
ZZ53719		0.54	25.9	1330	12.5	6.7	0.001	0.10	0.77	1.1	1.7	0.5	27.0	<0.01	0.05	0.3
ZZ53720		0.50	22.7	500	9.9	9.4	0.002	0.02	0.94	1.7	1.6	0.5	29.5	<0.01	0.11	0.8
ZZ53721		0.56	53.0	950	17.5	10.5	0.001	0.03	1.18	3.2	2.2	0.6	32.5	<0.01	0.08	1.0
ZZ53722		0.45	33.8	1260	27.5	8.1	0.001	0.07	1.34	2.0	1.8	0.5	31.4	<0.01	0.06	0.6



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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52066		0.006	0.58	3.08	132	0.13	8.46	177	1.9
ZZ52067		0.007	2.20	2.23	173	0.22	16.80	294	2.1
ZZ52068		0.007	0.26	4.50	37	0.08	7.88	105	0.9
ZZ52069		0.008	0.82	1.30	105	0.23	17.90	446	1.5
ZZ52070		0.017	0.55	2.00	71	0.25	8.47	230	1.0
ZZ52071		0.016	0.65	2.37	101	0.49	17.05	343	0.6
ZZ52072		0.024	0.15	4.06	77	0.28	20.3	226	<0.5
ZZ52073		0.023	0.21	3.71	63	0.23	16.60	125	0.6
ZZ52074		0.024	0.34	1.42	75	0.30	6.12	272	<0.5
ZZ52075		0.019	0.33	3.24	66	0.33	9.89	290	0.9
ZZ52076		0.016	0.44	2.73	70	0.32	16.00	324	0.8
ZZ52077		0.013	0.41	5.06	67	0.34	11.55	249	0.6
ZZ52078		0.010	0.31	5.07	45	0.42	7.80	297	1.1
ZZ52079		<0.005	0.41	4.83	67	0.24	11.15	186	1.8
ZZ52080		<0.005	0.62	0.73	54	0.35	3.36	156	<0.5
ZZ52081		<0.005	0.67	3.25	49	0.34	12.75	237	1.4
ZZ52082		<0.005	0.39	2.29	49	0.22	10.40	258	1.5
ZZ52083		<0.005	0.33	1.81	56	0.20	9.08	258	1.3
ZZ52084		0.005	0.65	2.89	84	0.20	13.15	341	1.3
ZZ52085		0.007	1.21	2.01	99	0.21	17.80	417	1.5
ZZ52086		0.005	2.33	6.01	355	0.30	28.2	1070	1.3
ZZ52087		0.007	2.23	9.20	400	0.32	37.2	1200	1.5
ZZ52088		0.006	1.76	5.69	283	0.19	33.0	871	1.6
ZZ52089		0.007	1.58	4.05	346	0.30	25.0	1010	1.6
ZZ52090		<0.005	6.86	3.15	435	0.30	16.10	962	0.7
ZZ52091		0.013	2.20	6.95	510	0.28	33.7	322	0.9
ZZ52092		0.008	0.55	2.84	179	0.13	11.55	262	1.4
ZZ52093		0.012	0.81	2.50	142	0.14	9.35	363	1.2
ZZ52094		0.005	0.36	3.38	235	0.12	33.4	448	1.9
ZZ52095		0.007	0.26	2.50	146	0.17	19.15	187	1.1
ZZ52096		0.010	0.16	1.75	114	0.16	11.00	163	0.5
ZZ52097		0.014	0.29	4.76	243	0.34	48.1	633	1.4
ZZ52098		0.005	0.52	5.98	373	0.24	43.1	643	2.0
ZZ52099		0.007	0.56	6.58	524	0.33	44.0	939	1.9
ZZ52100		0.005	0.13	0.84	27	0.07	8.61	71	2.4
ZZ53718		0.022	0.23	1.84	71	0.23	11.90	101	0.8
ZZ53719		0.012	0.12	4.06	57	0.16	20.6	88	0.5
ZZ53720		0.017	0.18	1.11	48	0.16	3.73	90	0.6
ZZ53721		0.016	0.42	3.03	63	0.34	19.00	161	1.1
ZZ53722		0.011	0.28	2.88	58	0.33	21.2	169	0.8



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53723		0.25	0.006	0.92	0.97	94.7	<0.2	<10	370	0.69	0.18	1.84	0.50	14.50	5.2	22
ZZ53724		0.28	0.006	0.68	1.24	211	<0.2	<10	390	0.87	0.22	1.73	0.71	19.15	7.9	24
ZZ53725		0.24	0.009	0.70	1.16	561	<0.2	<10	250	1.08	0.24	2.39	1.88	21.7	11.3	22
ZZ53726		0.32	0.004	0.45	1.54	480	<0.2	<10	230	1.39	0.26	2.25	2.81	21.5	11.1	26
ZZ53727		0.25	0.002	0.38	1.24	333	<0.2	<10	180	0.92	0.25	1.88	4.46	23.1	9.0	23
ZZ53728		0.16	<0.001	0.53	1.30	397	<0.2	<10	190	1.03	0.24	2.37	6.59	22.2	9.6	23
ZZ53729		0.17	0.014	1.23	0.88	673	<0.2	<10	170	1.20	0.19	6.13	5.25	16.40	8.6	17
ZZ53730		0.18	0.021	1.16	0.95	493	<0.2	<10	280	1.18	0.17	3.45	2.87	13.70	7.5	17
ZZ53731		0.22	0.008	1.16	0.64	423	<0.2	<10	320	1.00	0.24	0.87	1.27	12.55	4.6	11
ZZ53732		0.20	0.009	2.15	0.97	794	<0.2	<10	520	1.27	0.29	1.32	2.44	27.3	8.6	18
ZZ53733		0.30	0.003	1.77	0.73	192.0	<0.2	<10	480	1.10	0.28	0.51	1.77	22.7	9.1	11
ZZ53734		0.23	0.005	0.79	0.85	236	<0.2	<10	410	1.05	0.22	2.00	4.66	21.0	10.3	15
ZZ53735		0.37	0.006	0.92	0.95	138.5	<0.2	<10	410	0.92	0.22	2.91	2.56	22.0	9.6	17
ZZ53736		0.30	0.006	0.58	0.93	107.5	<0.2	<10	400	0.95	0.23	0.94	1.90	20.7	9.6	16
ZZ53737		0.17	0.007	1.25	1.29	229	<0.2	<10	570	0.97	0.24	1.97	6.22	19.00	10.6	22
ZZ53738		0.17	0.010	2.90	1.02	434	<0.2	<10	170	0.82	0.19	4.78	10.75	20.5	7.5	19
ZZ53739		0.18	0.006	6.35	0.96	527	<0.2	<10	230	1.05	0.21	2.38	10.00	27.6	8.0	19
ZZ53740		0.20	<0.001	0.63	0.92	222	<0.2	<10	220	0.91	0.20	3.10	3.08	32.4	10.1	15
ZZ53741		0.14	0.004	0.35	1.15	123.0	<0.2	<10	200	0.79	0.21	1.38	4.89	35.9	10.0	17
ZZ53742		0.33	0.004	0.50	1.28	142.5	<0.2	<10	390	1.08	0.29	0.66	2.28	32.9	15.0	21
ZZ53743		0.19	0.004	0.74	0.97	145.0	<0.2	<10	280	0.95	0.22	1.40	2.47	30.4	10.0	17
ZZ53744		0.30	0.006	1.15	0.74	204	<0.2	<10	280	0.56	0.21	1.12	4.61	11.05	4.6	22
ZZ53745		0.24	0.007	1.01	0.57	44.7	<0.2	<10	340	0.78	0.16	1.01	3.77	10.85	7.1	24
ZZ53746		0.24	0.005	1.32	1.38	89.9	<0.2	<10	470	1.02	0.26	1.12	2.89	30.6	10.1	45
ZZ53747		0.26	0.005	1.85	1.28	78.3	<0.2	<10	430	1.21	0.28	1.48	4.73	31.2	10.8	55
ZZ53748		0.21	0.002	0.14	1.09	24.0	<0.2	<10	340	0.49	0.30	0.07	0.57	12.50	8.9	19
ZZ53749		0.26	0.005	5.91	0.40	58.6	<0.2	<10	350	0.28	0.26	0.03	2.48	8.43	1.0	27
ZZ53750		0.22	0.003	0.75	1.13	33.6	<0.2	<10	230	0.44	0.33	0.06	2.85	13.15	10.5	23
ZZ53751		0.20	0.011	2.98	1.22	95.7	<0.2	<10	590	1.33	0.25	1.57	13.05	19.75	9.2	69
ZZ53752		0.28	0.004	0.69	1.01	34.8	<0.2	<10	310	1.22	0.21	1.67	4.55	28.6	8.6	26
ZZ53753		0.29	0.006	0.22	1.53	28.8	<0.2	<10	360	1.49	0.32	1.33	0.52	17.15	11.0	24
ZZ53754		0.22	0.003	0.03	1.20	16.6	<0.2	<10	150	0.44	0.31	0.28	0.16	16.50	7.6	18
ZZ53755		0.20	0.004	0.31	1.55	46.0	<0.2	<10	600	1.08	0.27	1.23	0.30	17.05	8.5	23
ZZ53756		0.25	<0.001	0.34	1.92	62.3	<0.2	<10	530	1.03	0.34	0.73	0.66	20.9	19.2	28
ZZ53757		0.26	0.003	0.21	1.70	45.3	<0.2	<10	450	1.43	0.47	0.33	0.48	27.6	17.4	31
ZZ53758		0.27	0.002	0.02	1.44	12.9	<0.2	<10	80	0.49	0.38	0.05	0.09	17.30	7.9	22
ZZ53759		0.25	0.003	0.05	1.84	25.5	<0.2	<10	110	0.82	0.35	0.06	0.24	23.2	16.3	31
ZZ53760		0.20	0.004	0.05	1.83	47.9	<0.2	<10	160	0.89	0.33	0.07	0.30	27.2	20.3	29
ZZ53761		0.24	0.003	0.09	2.00	24.6	<0.2	<10	360	1.27	0.33	0.22	0.42	30.0	14.9	29
ZZ53762		0.26	0.001	0.11	2.28	15.7	<0.2	<10	260	0.64	0.36	0.09	0.30	20.3	9.4	26

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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53723		1.73	27.0	2.10	3.03	0.05	0.04	0.30	0.027	0.05	9.7	6.9	0.20	194	1.94	0.01
ZZ53724		1.89	27.9	2.36	3.62	0.05	0.04	0.38	0.033	0.06	10.3	8.5	0.24	330	1.93	0.01
ZZ53725		1.74	35.4	3.15	3.45	0.06	0.06	0.53	0.040	0.09	11.2	10.7	0.73	521	3.85	0.02
ZZ53726		2.80	35.1	2.92	4.37	0.06	0.04	0.90	0.038	0.08	10.1	11.9	0.32	564	3.90	0.01
ZZ53727		1.61	25.0	2.73	3.64	<0.05	0.03	0.52	0.030	0.06	10.0	9.8	0.31	427	2.78	0.02
ZZ53728		1.61	23.1	2.68	3.54	0.06	0.02	0.62	0.031	0.06	9.6	11.1	0.34	556	3.12	0.02
ZZ53729		2.34	32.2	2.39	2.56	0.05	0.05	3.28	0.028	0.08	7.9	7.5	1.05	479	3.57	0.02
ZZ53730		1.97	35.2	2.16	2.82	0.05	0.04	1.66	0.024	0.08	7.3	8.0	0.48	501	2.15	0.02
ZZ53731		2.08	51.4	2.05	2.24	<0.05	0.07	0.93	0.040	0.08	5.4	4.0	0.13	160	3.18	0.01
ZZ53732		4.01	205	2.70	3.19	0.09	0.07	1.14	0.054	0.09	11.0	8.4	0.24	449	3.90	0.01
ZZ53733		5.80	97.1	2.49	2.42	0.07	0.04	0.70	0.044	0.10	8.0	6.8	0.13	208	5.19	0.01
ZZ53734		1.98	75.1	2.67	2.53	0.06	0.06	0.62	0.038	0.11	9.5	10.0	0.79	680	3.97	0.02
ZZ53735		2.23	46.6	3.15	2.94	0.06	0.07	0.52	0.038	0.10	9.5	11.0	1.55	825	4.12	0.02
ZZ53736		3.96	49.6	2.89	2.98	0.06	0.04	0.31	0.037	0.10	9.2	10.6	0.35	530	3.86	0.01
ZZ53737		1.29	44.4	2.82	3.62	0.05	0.06	1.26	0.027	0.07	9.5	14.5	0.39	657	2.90	0.02
ZZ53738		1.20	27.4	2.44	3.02	0.07	0.04	1.55	0.026	0.08	13.2	11.0	1.46	292	9.26	0.02
ZZ53739		2.64	20.9	2.50	2.94	0.07	0.04	3.77	0.038	0.08	14.9	6.9	0.32	409	13.25	0.02
ZZ53740		0.97	21.8	2.59	2.88	0.07	0.05	0.20	0.037	0.09	21.2	8.6	0.39	262	6.83	0.01
ZZ53741		0.79	20.5	3.00	3.43	0.07	0.04	0.08	0.038	0.07	18.3	11.2	0.18	347	6.85	0.01
ZZ53742		1.45	39.8	3.68	3.92	0.06	0.06	0.22	0.041	0.08	17.6	19.1	0.36	783	6.08	0.01
ZZ53743		1.09	31.7	2.80	2.95	0.06	0.06	0.31	0.032	0.09	18.3	12.4	0.25	413	6.64	0.01
ZZ53744		2.38	48.7	1.82	3.40	0.05	0.06	1.35	0.035	0.09	6.7	7.6	0.17	156	19.80	0.01
ZZ53745		3.44	74.3	1.95	2.46	0.07	0.06	0.28	0.036	0.08	8.2	6.3	0.12	158	68.0	0.01
ZZ53746		1.67	53.6	3.08	4.84	0.09	0.05	0.28	0.035	0.08	23.5	17.8	0.34	294	12.55	0.01
ZZ53747		1.75	94.6	2.65	4.81	0.10	0.06	0.47	0.037	0.11	24.6	19.1	0.35	423	10.00	0.02
ZZ53748		4.09	38.3	3.63	4.80	<0.05	0.02	0.03	0.037	0.10	5.3	16.7	0.26	259	4.50	0.01
ZZ53749		6.57	45.1	2.10	3.68	0.08	<0.02	0.12	0.051	0.13	5.2	1.3	0.02	18	86.0	0.02
ZZ53750		2.10	48.6	4.69	4.78	<0.05	0.06	0.14	0.037	0.12	5.8	17.7	0.28	502	25.2	0.02
ZZ53751		2.08	148.0	3.43	4.65	0.13	0.07	0.62	0.053	0.11	17.8	11.5	0.24	251	91.8	0.02
ZZ53752		1.31	39.1	3.03	3.14	0.09	0.06	0.15	0.033	0.10	17.8	11.1	0.44	637	13.20	0.01
ZZ53753		2.03	66.9	3.94	4.98	0.05	0.07	0.22	0.037	0.11	8.2	24.2	0.52	501	1.16	0.02
ZZ53754		1.62	21.2	2.96	6.55	<0.05	<0.02	0.08	0.025	0.08	7.2	10.5	0.19	657	1.19	0.01
ZZ53755		1.47	40.9	3.55	4.81	0.07	0.07	0.30	0.034	0.08	8.7	14.8	0.47	585	1.10	0.02
ZZ53756		2.10	34.0	4.30	6.17	0.06	0.07	0.41	0.041	0.12	10.0	26.7	0.42	1740	1.01	0.01
ZZ53757		1.41	49.3	4.66	6.91	0.07	0.08	0.30	0.039	0.11	12.9	27.3	0.59	827	0.75	0.01
ZZ53758		1.54	27.5	4.32	8.06	0.05	<0.02	0.03	0.030	0.09	7.9	12.3	0.20	392	1.43	0.01
ZZ53759		1.91	62.8	5.62	6.16	0.06	0.04	0.06	0.040	0.09	9.6	30.5	0.57	781	1.08	0.01
ZZ53760		1.86	35.0	5.95	5.73	0.06	0.04	0.10	0.045	0.07	11.2	32.2	0.45	1360	1.04	0.01
ZZ53761		1.72	63.1	4.83	5.66	0.07	0.08	0.10	0.040	0.10	14.6	35.4	0.62	706	2.08	0.01
ZZ53762		1.62	20.7	3.85	8.32	0.05	0.04	0.08	0.038	0.09	8.5	17.7	0.30	655	3.91	0.01

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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53723		0.43	31.8	1010	11.7	7.0	0.001	0.05	1.06	2.2	2.2	0.4	36.7	<0.01	0.07	0.5
ZZ53724		0.52	35.3	920	20.1	8.0	0.001	0.05	1.24	2.6	2.0	0.5	30.8	<0.01	0.09	0.8
ZZ53725		0.41	61.9	820	41.9	7.8	0.001	0.02	2.28	4.3	2.2	0.5	45.5	<0.01	0.07	2.5
ZZ53726		0.45	58.4	1160	30.9	10.8	<0.001	0.06	1.72	2.2	1.4	0.6	26.9	<0.01	0.08	0.6
ZZ53727		0.55	41.2	870	25.3	7.7	0.001	0.06	1.40	2.2	1.2	0.5	24.6	<0.01	0.04	0.6
ZZ53728		0.51	43.4	1010	31.2	7.7	<0.001	0.09	1.67	2.6	1.2	0.5	29.0	<0.01	0.05	0.6
ZZ53729		0.34	53.2	1150	56.1	7.3	<0.001	0.05	3.13	2.8	2.0	0.5	60.9	<0.01	0.06	1.0
ZZ53730		0.37	40.6	1190	43.3	7.7	<0.001	0.10	2.33	1.8	2.0	0.4	36.2	<0.01	0.05	0.5
ZZ53731		0.22	24.7	910	32.8	10.4	0.001	0.04	2.26	3.5	2.4	0.4	28.0	<0.01	0.07	1.8
ZZ53732		0.41	48.4	1130	80.6	13.7	0.006	0.07	5.51	6.6	4.5	0.5	38.7	<0.01	0.10	2.9
ZZ53733		0.20	38.9	1020	38.9	13.8	0.002	0.02	3.15	5.2	3.5	0.5	40.5	<0.01	0.10	2.8
ZZ53734		0.28	51.9	1080	52.1	8.7	0.002	0.03	3.17	4.9	3.4	0.4	35.4	<0.01	0.07	3.1
ZZ53735		0.27	44.6	1020	43.9	8.4	0.002	0.02	2.64	4.9	1.7	0.5	35.9	<0.01	0.06	3.1
ZZ53736		0.29	41.6	880	29.0	10.7	0.001	0.01	2.30	4.3	1.8	0.5	26.1	<0.01	0.09	2.1
ZZ53737		0.42	40.6	1020	124.5	8.5	0.002	0.06	2.19	3.2	2.7	0.4	40.2	<0.01	0.06	1.0
ZZ53738		0.37	51.7	890	258	7.0	0.001	0.05	4.43	2.8	5.8	0.4	48.2	<0.01	0.06	0.9
ZZ53739		0.38	55.3	840	925	11.6	0.002	0.05	9.88	2.9	4.8	0.5	36.1	<0.01	0.07	0.9
ZZ53740		0.37	52.2	440	28.6	9.5	0.001	0.03	3.28	4.4	3.9	0.4	72.5	<0.01	0.04	2.2
ZZ53741		0.34	45.8	440	22.7	10.0	0.002	0.02	3.29	3.8	3.1	0.4	36.6	<0.01	0.07	2.0
ZZ53742		0.30	54.9	790	39.7	9.7	0.002	<0.01	2.11	5.5	1.9	0.5	33.9	<0.01	0.07	3.7
ZZ53743		0.29	47.3	850	20.0	8.3	0.001	0.03	2.30	4.2	2.5	0.4	43.5	<0.01	0.07	2.0
ZZ53744		0.21	66.0	730	14.9	8.9	0.004	0.10	8.23	3.2	4.8	0.7	69.0	<0.01	0.16	1.1
ZZ53745		0.18	195.0	620	11.6	8.1	0.007	0.03	8.46	4.5	5.9	0.5	36.3	<0.01	0.15	1.1
ZZ53746		0.33	108.5	1230	19.2	10.2	<0.001	0.02	4.04	5.8	4.7	0.6	46.6	<0.01	0.11	3.2
ZZ53747		0.27	132.5	1940	17.2	10.3	0.003	0.03	4.29	5.3	6.0	0.7	79.5	<0.01	0.12	2.1
ZZ53748		0.28	26.0	530	18.8	14.3	<0.001	0.03	1.73	3.1	1.0	0.6	23.1	<0.01	0.07	2.7
ZZ53749		0.16	31.6	940	18.6	14.2	0.008	0.28	19.20	1.5	13.4	1.2	108.5	<0.01	0.42	1.0
ZZ53750		0.28	42.9	640	23.2	11.8	0.002	0.14	10.30	3.5	5.1	0.6	29.9	<0.01	0.17	2.4
ZZ53751		0.29	303	1710	19.0	10.0	0.010	0.19	19.60	6.6	14.6	0.9	88.0	<0.01	0.24	1.2
ZZ53752		0.26	60.4	1110	17.9	11.9	0.004	0.09	4.52	3.9	3.5	0.6	45.3	<0.01	0.04	1.2
ZZ53753		0.46	29.0	650	41.6	11.7	0.001	0.07	0.64	5.9	1.3	0.6	37.8	<0.01	0.04	2.5
ZZ53754		0.43	12.6	650	23.1	14.7	<0.001	0.03	0.42	2.3	0.6	0.8	18.3	<0.01	0.04	1.3
ZZ53755		0.42	23.6	1500	34.9	16.8	0.001	0.12	0.61	3.9	1.5	0.6	32.9	<0.01	0.06	0.9
ZZ53756		0.42	23.5	950	60.7	20.5	0.001	0.05	0.62	5.3	0.7	0.7	49.4	<0.01	0.06	1.9
ZZ53757		0.44	34.7	410	46.6	12.1	0.001	0.02	0.50	6.7	1.0	0.9	22.9	<0.01	0.03	4.7
ZZ53758		0.86	16.1	450	22.4	19.1	<0.001	0.02	0.55	2.7	0.8	1.0	7.1	<0.01	0.05	2.0
ZZ53759		0.39	29.9	660	25.6	12.9	0.001	0.03	0.58	4.9	0.6	0.5	7.5	<0.01	0.10	2.3
ZZ53760		0.65	28.3	460	47.3	11.0	<0.001	0.02	0.63	4.0	0.8	0.6	10.7	<0.01	0.06	3.9
ZZ53761		0.21	40.9	770	21.2	12.2	0.001	0.03	0.66	6.7	1.2	0.5	15.9	<0.01	0.08	2.7
ZZ53762		0.51	19.8	560	16.6	17.1	<0.001	0.02	0.62	3.8	0.4	1.0	9.4	<0.01	0.05	2.6



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53723		0.013	0.21	2.70	49	0.21	21.9	101	0.9
ZZ53724		0.011	0.23	2.77	55	0.32	16.25	142	1.0
ZZ53725		0.011	0.48	1.52	62	0.48	21.1	325	1.4
ZZ53726		0.011	0.51	2.16	64	0.50	17.45	362	1.1
ZZ53727		0.018	0.27	1.93	55	0.43	11.05	271	0.7
ZZ53728		0.014	0.34	2.53	61	0.37	14.10	310	0.9
ZZ53729		0.008	0.44	2.81	61	0.71	16.60	458	1.3
ZZ53730		0.008	0.40	3.58	50	0.52	14.70	367	1.2
ZZ53731		<0.005	0.50	2.63	55	0.34	11.50	176	1.7
ZZ53732		0.006	1.05	4.72	74	0.31	21.9	220	1.9
ZZ53733		<0.005	0.86	2.89	57	0.15	26.8	227	0.8
ZZ53734		0.005	0.40	2.50	70	0.19	22.0	410	2.1
ZZ53735		0.005	0.46	1.94	66	0.19	15.35	356	1.9
ZZ53736		0.005	0.43	1.74	60	0.12	14.80	272	1.4
ZZ53737		0.006	0.62	2.40	83	0.16	15.45	420	1.5
ZZ53738		0.007	1.10	3.19	127	0.34	19.10	727	1.3
ZZ53739		0.007	2.48	3.88	162	0.68	19.05	1180	1.1
ZZ53740		0.005	1.70	1.89	92	0.10	24.1	423	1.7
ZZ53741		<0.005	1.13	1.76	107	0.10	16.70	423	1.3
ZZ53742		0.006	0.53	1.46	76	0.11	19.70	271	1.7
ZZ53743		0.005	0.53	1.78	75	0.11	22.3	238	1.6
ZZ53744		<0.005	2.73	8.42	302	0.30	15.15	350	2.8
ZZ53745		<0.005	1.66	4.90	512	0.26	32.7	568	2.0
ZZ53746		0.005	0.48	2.97	191	0.22	31.1	461	2.0
ZZ53747		<0.005	0.48	4.59	243	0.25	44.2	573	1.9
ZZ53748		<0.005	0.31	0.70	61	0.07	3.29	155	0.8
ZZ53749		<0.005	5.95	7.67	384	0.44	14.20	161	<0.5
ZZ53750		0.006	1.55	1.71	199	0.12	5.26	198	1.7
ZZ53751		0.007	1.35	15.75	835	0.34	50.4	1910	2.9
ZZ53752		0.005	0.38	2.83	159	0.10	20.2	471	2.1
ZZ53753		0.006	0.22	1.29	34	0.12	15.65	130	2.2
ZZ53754		0.008	0.15	0.49	41	0.11	3.07	84	<0.5
ZZ53755		0.008	0.38	2.24	34	0.11	11.90	186	1.7
ZZ53756		0.006	0.65	1.70	45	0.12	9.02	286	1.7
ZZ53757		0.009	0.37	0.96	36	0.08	11.35	252	2.3
ZZ53758		0.016	0.17	0.43	55	0.14	3.10	66	0.5
ZZ53759		0.008	0.22	0.51	50	0.08	4.77	99	1.2
ZZ53760		0.010	0.31	0.63	45	0.16	4.02	91	1.5
ZZ53761		<0.005	0.19	1.49	65	0.07	15.00	139	2.2
ZZ53762		0.007	0.28	0.78	80	0.10	3.92	87	1.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53763		0.16	0.003	0.09	1.70	10.0	<0.2	<10	140	0.41	0.33	0.10	0.18	22.8	6.6	28
ZZ53764		0.13	<0.001	0.14	1.02	8.4	<0.2	<10	80	0.18	0.24	0.07	0.10	17.35	3.2	20
ZZ53765		0.25	0.006	0.08	2.41	96.5	<0.2	<10	120	1.11	0.36	0.04	0.22	36.3	22.6	34
ZZ53766		0.26	0.005	0.03	2.09	30.4	<0.2	<10	150	0.81	0.34	0.10	0.20	24.4	15.8	31
ZZ53767		0.17	0.002	0.05	0.92	21.5	<0.2	<10	110	0.35	0.31	0.19	0.53	20.7	7.9	17
ZZ53768		0.21	0.005	0.16	1.57	21.3	<0.2	<10	260	0.59	0.27	0.44	0.23	18.00	8.6	26
ZZ53769		0.29	0.004	0.22	1.59	32.9	<0.2	<10	340	0.93	0.28	0.63	0.72	26.5	15.1	27
ZZ53770		0.23	0.004	0.82	1.47	117.5	<0.2	<10	190	1.14	0.28	3.21	1.83	23.7	11.8	22
ZZ53771		0.39	0.004	0.21	1.49	36.9	<0.2	<10	410	1.04	0.30	0.90	0.64	24.1	15.4	25
ZZ53772		0.20	0.003	0.14	1.65	24.8	<0.2	<10	390	0.76	0.31	0.59	0.29	21.5	11.1	26
ZZ53773		0.20	0.004	0.27	1.02	87.1	<0.2	<10	270	1.25	0.38	1.26	1.62	21.2	12.5	17
ZZ53774		0.21	0.007	0.23	1.18	23.6	<0.2	<10	210	1.09	0.25	1.47	1.18	18.65	9.0	18
ZZ53775		0.31	0.004	0.06	1.58	20.5	<0.2	<10	260	1.46	0.40	0.42	0.22	19.75	15.1	26
ZZ53776		0.34	0.004	0.21	1.61	34.9	<0.2	<10	280	1.50	0.41	0.50	0.21	22.1	13.5	27
ZZ53777		0.24	0.008	0.06	1.82	16.6	<0.2	<10	170	1.24	0.53	0.25	0.14	15.95	18.1	31
ZZ53778		0.22	0.002	0.03	1.42	28.2	<0.2	<10	120	0.55	0.35	0.11	0.21	18.00	9.8	22
ZZ53779		0.15	0.006	0.13	1.41	16.4	<0.2	<10	130	0.61	0.25	0.04	0.43	15.55	7.5	21
ZZ53780		0.17	0.005	0.10	0.92	19.1	<0.2	<10	130	0.39	0.28	0.55	0.48	14.30	7.5	16
ZZ53781		0.24	0.006	0.28	0.93	19.6	<0.2	<10	360	1.19	0.20	1.81	1.17	33.4	9.3	14
ZZ53782		0.27	0.008	0.55	1.20	55.7	<0.2	<10	440	1.12	0.22	2.50	2.22	19.60	8.9	22
ZZ53783		0.28	0.012	0.73	1.48	69.1	<0.2	<10	510	1.52	0.22	2.72	5.77	54.1	10.9	23
ZZ53784		0.23	0.004	0.14	2.15	67.1	<0.2	<10	400	1.01	0.31	0.15	0.51	25.4	11.3	31
ZZ53785		0.16	0.006	0.24	2.23	157.5	<0.2	<10	940	0.97	0.23	0.80	2.81	16.00	7.4	51
ZZ53786		0.22	0.005	1.26	2.01	371	<0.2	<10	260	1.38	0.25	0.45	1.83	51.0	10.1	59
ZZ53787		0.26	0.004	0.13	1.83	279	<0.2	<10	230	0.86	0.29	0.14	1.20	31.7	10.7	30
ZZ53788		0.39	0.006	0.17	1.74	695	<0.2	<10	310	0.98	0.29	0.11	1.71	21.6	7.9	28
ZZ53789		0.19	0.012	1.12	1.34	611	<0.2	<10	240	0.91	0.25	1.28	13.40	23.3	10.8	33
ZZ53790		0.20	0.011	1.36	0.83	1005	<0.2	<10	280	1.27	0.18	1.86	13.95	27.5	8.4	23
ZZ53791		0.14	0.004	1.70	0.86	241	<0.2	<10	320	0.67	0.17	3.61	6.45	34.7	4.1	58
ZZ53792		0.18	0.012	2.62	1.06	840	<0.2	<10	450	1.08	0.23	4.66	29.4	40.8	10.4	58
ZZ53793		0.26	0.012	1.82	1.12	810	<0.2	<10	750	1.05	0.19	2.12	14.65	21.9	7.1	27
ZZ53794		0.21	0.011	1.33	1.05	614	<0.2	<10	730	0.89	0.19	2.27	8.08	18.05	6.5	23
ZZ53795		0.40	0.012	0.40	0.72	172.5	<0.2	<10	400	0.76	0.27	0.31	0.49	12.90	7.6	13
ZZ53796		0.36	0.005	0.84	0.65	181.5	<0.2	<10	450	0.90	0.30	0.36	0.54	15.70	7.4	10
ZZ53797		0.27	0.005	0.13	0.56	263	<0.2	<10	100	0.26	0.53	0.02	0.43	20.8	6.0	14
ZZ53798		0.23	0.021	2.19	0.96	403	<0.2	<10	540	1.24	0.26	1.50	2.54	22.6	8.8	18
ZZ53799		0.23	0.104	2.90	0.77	601	<0.2	<10	680	1.08	0.20	7.60	1.98	12.80	5.3	18
ZZ53800		0.18	0.017	1.90	1.64	811	<0.2	<10	1100	1.33	0.25	1.36	5.34	19.05	7.4	42
ZZ53801		0.21	0.028	1.13	1.43	1410	<0.2	<10	440	1.31	0.28	2.21	8.79	21.6	13.4	25
ZZ53802		0.16	0.023	1.02	1.04	618	<0.2	<10	280	0.97	0.19	6.82	9.29	18.65	8.5	18



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ53763		1.71	13.1	2.92	7.57	0.05	<0.02	0.06	0.027	0.06	11.7	16.0	0.28	507	1.44	0.01
ZZ53764		1.46	9.4	1.76	5.79	<0.05	<0.02	0.08	0.016	0.04	9.3	6.9	0.20	108	1.27	0.01
ZZ53765		2.16	52.5	4.74	6.01	0.06	0.06	0.13	0.046	0.08	13.6	38.4	0.61	766	0.98	0.01
ZZ53766		2.05	40.5	5.07	6.66	0.05	0.04	0.07	0.044	0.10	11.3	36.6	0.57	447	1.03	0.01
ZZ53767		1.90	28.7	3.15	5.87	<0.05	0.02	0.07	0.024	0.07	10.1	9.9	0.17	267	1.14	0.01
ZZ53768		1.86	18.3	3.12	5.90	0.05	0.05	0.23	0.030	0.06	7.9	13.2	0.36	491	0.84	0.01
ZZ53769		1.77	35.4	3.94	4.74	0.06	0.06	0.21	0.033	0.10	11.6	17.8	0.53	915	0.82	0.01
ZZ53770		1.55	32.2	5.33	4.44	0.06	0.06	1.01	0.032	0.08	13.8	15.2	1.96	2380	0.94	0.02
ZZ53771		1.45	46.4	4.40	4.49	0.05	0.07	0.28	0.037	0.10	11.7	22.7	0.58	763	0.84	0.01
ZZ53772		1.46	29.4	3.81	5.82	<0.05	0.05	0.16	0.035	0.08	9.7	20.7	0.48	735	1.00	0.01
ZZ53773		1.90	30.1	3.88	3.44	0.05	0.07	0.47	0.037	0.13	10.2	13.8	0.61	691	1.10	0.01
ZZ53774		1.00	37.6	3.04	3.98	0.05	0.09	0.13	0.028	0.10	11.3	17.6	0.38	358	1.67	0.02
ZZ53775		1.34	30.9	4.14	5.79	0.05	0.07	0.08	0.036	0.16	7.7	26.0	0.50	786	0.71	0.01
ZZ53776		2.16	55.1	4.27	5.85	0.07	0.10	0.18	0.039	0.12	11.2	28.7	0.53	482	0.72	0.01
ZZ53777		1.99	32.3	4.30	7.23	0.05	0.04	0.05	0.036	0.12	6.1	35.0	0.51	942	0.50	0.01
ZZ53778		1.30	28.6	4.25	6.20	0.05	0.03	0.05	0.028	0.09	8.1	17.1	0.34	432	0.94	0.01
ZZ53779		1.79	23.3	2.94	5.27	<0.05	0.03	0.07	0.030	0.08	6.0	12.6	0.17	362	5.84	0.01
ZZ53780		1.44	22.1	3.25	5.37	<0.05	<0.02	0.08	0.025	0.09	5.6	6.2	0.14	475	5.81	0.01
ZZ53781		1.17	29.2	3.06	2.82	0.06	0.06	0.16	0.038	0.12	13.7	9.4	0.35	593	7.81	0.02
ZZ53782		0.85	41.9	3.05	3.63	0.06	0.05	0.25	0.033	0.12	13.1	12.7	0.88	376	4.58	0.02
ZZ53783		1.64	50.9	3.05	4.18	0.13	0.08	0.24	0.041	0.10	27.1	12.3	0.56	1160	8.87	0.02
ZZ53784		1.97	25.0	3.77	6.60	0.05	0.06	0.08	0.040	0.10	12.1	17.8	0.41	407	3.77	0.01
ZZ53785		4.26	31.4	3.20	7.34	0.06	0.06	0.14	0.037	0.09	10.8	11.8	0.35	1340	10.65	0.02
ZZ53786		1.83	41.9	3.71	5.57	0.10	0.04	0.29	0.036	0.07	34.2	18.5	0.29	429	8.12	0.01
ZZ53787		1.88	25.6	3.63	5.74	0.05	0.06	0.09	0.035	0.07	12.5	14.7	0.31	456	6.08	0.01
ZZ53788		2.33	27.3	3.47	5.70	0.05	0.05	0.28	0.032	0.06	10.0	13.5	0.22	243	9.10	0.01
ZZ53789		1.54	31.7	3.40	4.21	0.07	0.04	0.82	0.032	0.08	14.1	10.8	0.24	474	15.75	0.02
ZZ53790		3.37	38.2	2.85	2.25	0.09	0.06	1.14	0.037	0.11	23.0	6.6	0.34	166	20.3	0.02
ZZ53791		1.31	42.1	1.48	2.73	0.11	0.02	0.61	0.020	0.04	44.4	4.8	0.11	164	8.39	0.02
ZZ53792		2.44	77.7	2.39	3.55	0.14	0.04	4.80	0.029	0.10	42.8	6.4	0.52	382	30.4	0.02
ZZ53793		2.26	56.8	2.26	2.86	0.07	0.05	1.67	0.026	0.08	19.3	8.3	0.28	174	8.64	0.02
ZZ53794		1.76	49.0	1.98	2.56	0.05	0.06	1.49	0.021	0.06	13.5	7.0	0.20	230	3.85	0.02
ZZ53795		4.81	36.1	2.49	2.45	<0.05	0.04	0.42	0.032	0.09	5.2	5.1	0.13	241	4.67	0.01
ZZ53796		9.56	46.6	2.54	2.07	0.05	0.04	0.57	0.040	0.10	6.0	3.8	0.08	140	5.04	0.01
ZZ53797		24.6	31.3	2.59	5.31	<0.05	<0.02	0.15	0.020	0.10	10.0	1.9	0.06	132	4.53	0.01
ZZ53798		11.00	73.8	2.96	2.94	0.08	0.07	1.44	0.038	0.13	12.5	7.2	0.29	279	3.92	0.02
ZZ53799		3.63	38.8	1.90	2.11	0.05	0.05	2.39	0.031	0.09	6.9	4.4	3.89	225	3.18	0.02
ZZ53800		1.88	39.1	3.09	3.92	0.06	0.04	0.69	0.028	0.08	12.3	9.9	0.28	460	5.98	0.02
ZZ53801		2.03	28.8	3.78	4.08	0.05	0.02	0.86	0.028	0.07	12.2	8.9	0.30	784	4.06	0.02
ZZ53802		1.06	21.7	2.46	2.56	0.06	<0.02	1.16	0.022	0.05	9.8	6.2	0.27	964	2.33	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53763		0.69	13.1	720	13.2	13.0	0.002	0.03	0.50	1.0	0.5	0.9	10.8	<0.01	0.06	0.2
ZZ53764		0.27	9.3	990	8.9	7.9	<0.001	0.06	0.43	0.2	0.5	0.7	8.6	<0.01	0.04	<0.2
ZZ53765		0.55	37.8	410	22.3	13.5	0.001	0.02	0.55	5.3	1.0	0.6	9.4	<0.01	0.10	3.8
ZZ53766		0.62	29.9	460	21.8	13.9	0.001	0.02	0.51	4.4	0.8	0.7	9.9	<0.01	0.12	2.8
ZZ53767		0.55	16.0	290	22.2	17.1	0.001	0.02	0.59	2.4	0.6	0.7	9.5	<0.01	0.07	2.2
ZZ53768		0.59	14.6	1410	35.4	8.3	<0.001	0.08	0.54	2.6	0.2	0.7	18.3	<0.01	0.05	0.9
ZZ53769		0.50	27.0	660	30.7	11.0	<0.001	0.04	0.67	5.4	0.8	0.6	19.9	<0.01	0.05	1.8
ZZ53770		0.34	26.4	790	135.5	10.5	0.001	0.05	1.88	5.1	0.7	0.5	32.5	<0.01	0.08	1.9
ZZ53771		0.33	32.5	550	36.7	9.1	<0.001	0.04	0.62	5.7	0.9	0.5	21.1	<0.01	0.05	1.9
ZZ53772		0.52	22.4	900	28.0	11.8	<0.001	0.06	0.51	4.1	0.6	0.6	20.3	<0.01	0.05	1.3
ZZ53773		0.24	25.1	690	57.8	17.9	0.003	0.08	0.51	5.1	1.6	0.6	45.6	<0.01	0.04	2.7
ZZ53774		0.29	30.1	1180	23.3	14.7	<0.001	0.12	0.78	4.2	1.3	0.5	42.5	<0.01	0.05	1.6
ZZ53775		0.42	27.3	490	33.5	16.9	<0.001	0.03	0.31	5.6	0.6	0.8	32.4	<0.01	0.03	3.5
ZZ53776		0.36	31.8	540	31.2	15.4	0.001	0.04	0.46	7.5	1.2	0.8	22.3	<0.01	0.05	4.1
ZZ53777		0.29	29.9	470	32.1	12.6	<0.001	0.01	0.31	4.6	0.2	1.0	17.5	<0.01	0.05	4.2
ZZ53778		0.52	19.1	250	25.3	13.1	0.001	0.01	0.45	3.1	0.6	0.7	9.9	<0.01	0.07	2.9
ZZ53779		0.42	20.3	1320	14.6	16.4	0.001	0.06	0.91	1.9	0.7	0.7	7.1	<0.01	0.05	0.8
ZZ53780		0.36	19.0	1190	17.4	10.6	<0.001	0.06	1.23	2.0	0.6	0.7	22.1	<0.01	0.07	0.9
ZZ53781		0.28	37.1	1020	14.1	8.6	0.003	0.12	1.84	3.8	1.5	0.6	48.5	<0.01	0.04	1.2
ZZ53782		0.33	45.4	1270	21.2	7.7	0.002	0.11	1.99	3.3	2.7	0.6	40.2	<0.01	0.05	0.9
ZZ53783		0.35	64.4	1750	17.2	11.0	0.001	0.12	2.83	4.2	5.9	0.6	47.2	<0.01	0.06	1.3
ZZ53784		0.61	30.1	1300	19.2	13.4	0.001	0.06	1.14	3.5	1.5	0.8	16.3	<0.01	0.04	1.5
ZZ53785		0.34	79.5	1820	16.5	12.3	0.001	0.09	2.46	2.4	3.4	0.9	34.4	<0.01	0.06	0.7
ZZ53786		0.60	100.5	1080	43.9	11.0	0.001	0.04	2.55	4.8	4.6	0.7	37.4	<0.01	0.07	3.2
ZZ53787		0.55	49.9	740	47.0	11.0	<0.001	0.03	1.80	3.8	1.5	0.7	19.1	<0.01	0.07	2.0
ZZ53788		0.42	63.4	760	50.0	12.1	<0.001	0.04	2.63	3.1	2.8	0.8	28.9	<0.01	0.12	1.4
ZZ53789		0.33	112.0	1090	95.6	9.8	<0.001	0.08	5.78	3.2	5.8	0.7	34.0	<0.01	0.08	1.0
ZZ53790		0.19	144.5	1000	71.5	8.8	0.002	0.07	6.64	5.4	11.1	0.5	55.0	<0.01	0.07	2.0
ZZ53791		0.31	75.9	1450	90.0	5.0	0.001	0.16	7.97	1.7	10.3	0.5	49.9	<0.01	0.09	0.3
ZZ53792		0.29	183.5	1460	315	8.6	0.002	0.10	22.6	4.6	17.1	0.7	78.7	<0.01	0.15	0.9
ZZ53793		0.31	117.5	1140	99.1	9.2	0.002	0.11	5.75	3.0	6.0	0.5	52.0	<0.01	0.07	0.6
ZZ53794		0.29	89.8	1240	89.4	9.1	0.002	0.13	4.73	2.1	4.8	0.4	54.3	<0.01	0.04	0.6
ZZ53795		0.20	26.5	600	29.0	12.1	<0.001	0.03	2.08	3.1	2.4	0.5	29.3	<0.01	0.08	2.3
ZZ53796		0.16	26.9	740	37.5	16.7	<0.001	0.03	2.14	3.9	3.1	0.5	27.7	<0.01	0.06	3.0
ZZ53797		0.55	34.1	550	46.1	17.6	<0.001	0.03	2.19	1.8	1.6	0.7	19.5	<0.01	0.06	1.0
ZZ53798		0.26	52.8	1480	48.3	16.2	<0.001	0.11	3.20	5.6	4.9	0.5	60.3	<0.01	0.05	1.8
ZZ53799		0.17	34.7	1290	71.1	8.7	<0.001	0.10	4.77	3.3	1.9	0.4	73.0	<0.01	0.04	0.6
ZZ53800		0.37	96.5	1900	34.6	9.1	0.001	0.12	2.58	3.6	5.9	0.6	99.4	<0.01	0.07	0.5
ZZ53801		0.38	160.0	1420	196.0	9.3	<0.001	0.17	4.22	1.7	3.7	0.6	36.1	<0.01	0.04	0.3
ZZ53802		0.29	66.1	1450	137.5	5.9	<0.001	0.18	2.76	0.9	2.3	0.5	85.2	<0.01	0.03	0.2



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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53763		0.025	0.21	0.85	64	0.30	2.56	56	<0.5
ZZ53764		0.012	0.18	0.73	43	0.19	1.81	33	<0.5
ZZ53765		0.010	0.68	0.80	48	0.13	4.77	77	1.5
ZZ53766		0.010	0.31	0.57	55	0.13	3.41	93	0.9
ZZ53767		0.012	0.22	0.42	52	0.11	2.21	103	0.6
ZZ53768		0.013	0.35	1.18	50	0.18	4.33	112	1.0
ZZ53769		0.012	0.42	1.01	43	0.16	10.35	160	1.5
ZZ53770		0.009	1.46	1.77	38	0.17	12.55	466	1.5
ZZ53771		0.007	0.32	1.12	37	0.09	10.95	225	1.8
ZZ53772		0.012	0.25	1.07	48	0.15	5.35	143	1.2
ZZ53773		<0.005	1.03	1.23	23	0.05	11.55	540	1.9
ZZ53774		0.005	0.24	1.09	37	0.06	14.60	180	2.5
ZZ53775		0.007	0.23	0.91	29	0.05	9.27	133	1.8
ZZ53776		0.005	0.26	1.09	30	0.07	17.80	155	2.9
ZZ53777		0.005	0.14	0.53	30	<0.05	5.72	126	1.3
ZZ53778		0.010	0.18	0.43	43	0.11	2.67	81	1.2
ZZ53779		0.005	0.30	1.04	76	0.12	3.65	115	0.7
ZZ53780		0.007	0.21	0.86	74	0.08	2.84	141	<0.5
ZZ53781		<0.005	0.32	1.29	61	0.06	15.15	169	1.9
ZZ53782		0.005	0.39	1.90	88	0.07	16.15	266	1.5
ZZ53783		0.006	0.64	3.83	168	0.11	34.5	335	1.9
ZZ53784		0.013	0.38	1.77	81	0.14	7.78	154	1.4
ZZ53785		<0.005	2.39	3.91	386	0.15	12.30	456	1.4
ZZ53786		0.012	0.74	2.75	175	0.26	33.7	411	1.4
ZZ53787		0.011	0.73	1.61	134	0.24	10.20	278	1.4
ZZ53788		0.008	1.39	1.43	173	0.24	9.62	362	1.3
ZZ53789		0.007	1.20	3.10	283	0.24	20.0	964	1.4
ZZ53790		0.005	4.11	2.73	255	0.23	43.8	1540	1.8
ZZ53791		0.008	2.75	4.91	317	0.17	44.6	524	1.1
ZZ53792		0.008	6.69	6.54	764	0.44	77.1	1920	1.4
ZZ53793		0.007	2.94	3.80	285	0.20	42.2	1160	1.6
ZZ53794		0.006	2.48	3.95	184	0.14	28.0	939	1.5
ZZ53795		<0.005	0.44	1.13	57	0.29	6.49	205	1.1
ZZ53796		<0.005	0.54	1.45	53	0.23	12.85	200	1.2
ZZ53797		0.019	1.13	0.59	90	0.25	3.48	204	<0.5
ZZ53798		0.005	1.23	2.47	70	0.46	27.4	341	2.0
ZZ53799		<0.005	2.36	1.57	59	0.94	18.60	259	1.3
ZZ53800		0.011	0.83	4.99	148	0.43	35.2	396	1.3
ZZ53801		0.011	0.85	2.08	73	0.73	21.1	605	0.6
ZZ53802		0.009	0.45	1.50	51	0.44	18.15	446	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53803		0.23	0.028	0.79	1.33	577	<0.2	<10	230	1.01	0.23	2.66	4.42	27.9	10.8	26
ZZ53804		0.19	0.006	0.69	1.32	773	<0.2	<10	250	1.01	0.20	2.16	5.51	24.2	11.4	25
ZZ53805		0.15	0.004	0.54	1.72	219	<0.2	<10	230	0.99	0.26	2.42	5.39	28.7	9.1	30
ZZ53806		0.15	0.013	0.97	1.36	472	<0.2	<10	300	1.05	0.22	2.66	6.51	24.1	8.4	24
ZZ53807		0.22	0.004	3.42	1.23	68.6	<0.2	<10	4010	0.73	0.24	0.79	4.86	17.25	5.4	62
ZZ53808		0.16	0.006	3.04	0.74	39.1	<0.2	<10	1960	0.78	0.17	1.57	3.05	7.31	3.6	47
ZZ53809		0.27	0.023	17.30	0.71	63.2	<0.2	10	2850	0.87	0.27	2.12	42.4	11.05	4.6	162
ZZ53810		0.22	<0.001	5.15	0.48	50.1	<0.2	<10	1350	0.64	0.21	1.44	3.61	8.08	6.1	45
ZZ53811		0.15	0.010	3.32	0.46	35.2	<0.2	<10	1170	0.57	0.21	2.28	2.44	6.74	4.8	35
ZZ53812		0.15	0.010	1.81	0.49	27.5	<0.2	<10	1080	0.45	0.18	2.05	0.97	5.22	3.8	24
ZZ53813		0.24	0.009	2.43	0.73	72.2	<0.2	<10	1330	0.73	0.19	1.31	1.13	10.95	5.9	31
ZZ53814		0.19	0.009	3.31	0.50	14.1	<0.2	<10	700	0.56	0.19	1.52	0.69	10.50	5.1	21
ZZ53815		0.29	0.008	1.33	0.47	8.0	<0.2	<10	1130	0.36	0.16	1.82	0.31	6.62	2.5	17
ZZ53816		0.25	0.004	4.80	0.63	18.7	<0.2	<10	1500	0.52	0.21	1.11	0.97	11.00	4.3	35
ZZ53817		0.27	0.010	4.85	0.48	12.3	<0.2	<10	1440	0.45	0.18	1.77	0.65	8.92	2.7	45
ZZ53818		0.32	0.002	2.36	0.65	16.3	<0.2	<10	1260	0.62	0.20	1.05	0.81	6.56	3.5	36
ZZ53819		0.30	0.005	2.49	0.44	24.2	<0.2	<10	1400	0.50	0.18	0.62	0.89	4.15	3.7	23
ZZ53820		0.25	0.001	0.81	0.37	15.1	<0.2	<10	1140	0.59	0.22	0.08	0.46	3.88	5.9	13
ZZ53821		0.16	<0.001	2.69	0.63	36.4	<0.2	<10	1420	0.67	0.22	1.73	1.69	6.62	4.6	33
ZZ53822		0.24	<0.001	3.33	0.64	76.3	<0.2	<10	1490	0.76	0.20	1.47	1.97	9.94	4.4	39
ZZ53823		0.30	<0.001	2.55	0.54	64.6	<0.2	<10	2060	0.67	0.19	0.86	1.66	8.01	5.6	28
ZZ53824		0.21	0.008	0.29	1.35	320	<0.2	<10	220	0.91	0.26	2.36	3.48	21.4	8.0	25
ZZ53825		0.29	0.053	1.80	1.20	1640	<0.2	<10	1350	2.05	0.23	12.75	6.39	17.20	8.5	20
ZZ53826		0.28	0.015	0.71	1.04	561	<0.2	<10	1190	1.30	0.21	10.35	2.37	16.80	7.3	20
ZZ53827		0.16	0.010	0.60	1.21	525	<0.2	10	550	1.58	0.23	2.94	2.50	15.65	7.2	24
ZZ53828		0.26	0.016	0.49	1.15	1870	<0.2	10	580	1.04	0.16	5.55	2.51	15.95	8.1	22
ZZ53829		0.16	0.034	0.49	1.02	2010	<0.2	10	290	0.88	0.14	5.84	3.75	14.20	7.1	20
ZZ53830		0.25	0.026	3.90	0.64	228	<0.2	10	1720	0.78	0.20	1.21	12.05	15.50	7.3	41
ZZ53831		0.24	0.008	5.42	0.67	110.5	<0.2	10	1060	0.96	0.31	0.51	11.95	17.60	4.0	153
ZZ53832		0.32	0.011	0.98	0.79	317	<0.2	<10	580	0.88	0.18	1.53	3.73	17.10	7.1	15
ZZ53833		0.22	0.003	0.80	0.80	195.0	<0.2	<10	460	0.83	0.21	0.69	1.35	17.10	8.9	14
ZZ53834		0.25	<0.001	0.42	0.76	240	<0.2	<10	380	0.75	0.21	0.33	2.56	19.80	10.4	15
ZZ53835		0.29	0.002	0.96	0.88	412	<0.2	<10	450	0.80	0.20	0.24	2.42	20.3	5.9	16
ZZ53836		0.31	0.005	0.74	0.83	439	<0.2	<10	420	0.85	0.23	0.07	2.63	18.20	7.8	17
ZZ53837		0.33	0.017	1.44	1.83	4630	<0.2	<10	650	1.51	0.19	0.85	18.70	25.2	9.0	34
ZZ53838		0.29	0.006	1.16	1.18	2010	<0.2	<10	280	0.69	0.23	0.05	5.09	18.80	8.1	27
ZZ53839		0.33	0.008	0.69	1.31	2060	<0.2	<10	260	0.94	0.23	0.10	5.38	25.7	11.9	26
ZZ53840		0.21	0.005	0.51	1.61	1030	<0.2	<10	300	0.78	0.20	0.08	2.35	17.75	6.0	27

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53803		1.27	24.9	3.24	3.64	0.06	0.03	0.77	0.028	0.06	15.7	9.5	0.68	784	3.49	0.02
ZZ53804		1.16	24.0	3.19	3.51	0.06	0.02	0.38	0.023	0.06	15.9	8.4	0.30	702	3.84	0.02
ZZ53805		1.34	15.5	2.86	4.14	0.05	0.02	0.36	0.027	0.05	17.6	9.3	0.31	700	2.29	0.02
ZZ53806		1.24	24.0	2.72	3.65	0.06	0.02	0.74	0.026	0.06	13.9	8.2	0.31	671	4.36	0.02
ZZ53807		1.34	38.3	2.62	3.95	0.06	0.03	0.23	0.033	0.08	10.4	7.7	0.22	225	12.20	0.03
ZZ53808		0.86	44.2	2.28	1.90	0.05	0.06	0.26	0.029	0.06	5.8	2.8	0.06	85	8.29	0.02
ZZ53809		2.35	107.5	2.91	2.74	0.15	0.04	0.48	0.040	0.15	13.1	3.9	0.11	82	64.3	0.03
ZZ53810		1.22	68.9	3.48	1.79	0.08	0.03	0.32	0.037	0.10	6.5	2.0	0.05	110	13.60	0.02
ZZ53811		0.89	48.2	3.09	1.56	0.06	0.04	0.28	0.031	0.11	6.0	2.3	0.05	109	15.70	0.02
ZZ53812		0.70	23.4	2.15	1.42	0.05	0.06	0.26	0.021	0.09	4.4	2.5	0.06	122	14.40	0.02
ZZ53813		1.06	34.7	2.81	2.24	0.05	0.06	0.25	0.030	0.08	7.0	4.4	0.12	178	12.95	0.01
ZZ53814		2.04	55.9	2.12	1.49	0.05	0.04	0.24	0.034	0.07	7.3	2.8	0.07	126	3.39	0.01
ZZ53815		1.15	30.4	1.30	1.52	<0.05	0.03	0.17	0.020	0.06	3.9	1.6	0.07	131	1.67	0.02
ZZ53816		1.33	68.7	2.39	1.61	0.07	0.04	0.32	0.031	0.10	7.1	2.4	0.06	100	3.85	0.03
ZZ53817		0.72	61.2	1.41	1.29	0.07	0.04	0.33	0.025	0.08	6.9	1.8	0.06	120	1.77	0.02
ZZ53818		0.69	63.4	1.94	1.85	0.06	0.03	0.20	0.031	0.10	5.0	2.4	0.05	86	3.96	0.03
ZZ53819		0.65	45.8	2.27	1.32	0.05	0.03	0.15	0.025	0.09	3.0	1.5	0.03	74	5.82	0.01
ZZ53820		0.84	63.8	2.95	1.22	<0.05	0.02	0.13	0.043	0.11	2.0	1.1	0.01	95	7.86	0.01
ZZ53821		0.79	42.7	2.66	1.76	0.07	0.05	0.27	0.032	0.11	5.9	3.1	0.10	118	12.60	0.02
ZZ53822		1.40	41.5	2.68	2.04	0.08	0.04	0.29	0.027	0.08	8.1	3.5	0.10	152	8.11	0.02
ZZ53823		1.43	46.5	2.88	1.83	0.05	0.04	0.20	0.033	0.07	5.6	3.3	0.09	116	9.19	0.01
ZZ53824		1.06	16.0	2.60	4.53	<0.05	<0.02	0.27	0.032	0.05	10.0	9.3	0.23	1120	4.02	0.02
ZZ53825		1.68	44.6	2.92	2.60	0.06	0.06	1.37	0.027	0.06	10.1	7.8	0.24	747	8.34	0.02
ZZ53826		1.82	28.0	2.30	2.73	0.06	0.04	0.46	0.026	0.08	9.9	9.9	0.33	618	4.55	0.02
ZZ53827		2.60	31.5	2.31	3.28	0.05	0.04	0.38	0.030	0.09	11.2	10.4	0.26	617	3.42	0.01
ZZ53828		3.30	36.8	2.38	3.39	0.06	0.06	0.33	0.032	0.09	11.1	12.8	0.34	470	3.00	0.02
ZZ53829		2.39	29.3	2.14	2.95	0.06	0.05	0.41	0.025	0.07	12.0	10.1	0.27	435	3.01	0.02
ZZ53830		3.61	70.0	3.03	2.36	0.11	0.11	1.03	0.043	0.14	9.5	4.9	0.21	348	17.70	0.01
ZZ53831		9.01	129.5	3.47	3.40	0.22	0.08	0.39	0.062	0.26	14.5	3.7	0.05	91	62.7	0.01
ZZ53832		4.15	53.8	2.31	2.43	0.06	0.09	0.50	0.036	0.08	10.3	7.1	0.22	213	3.19	0.01
ZZ53833		5.76	38.6	2.64	2.55	0.05	0.06	0.46	0.038	0.10	8.1	7.7	0.18	250	3.55	0.01
ZZ53834		7.24	41.4	3.03	2.43	0.11	0.07	0.36	0.041	0.09	8.7	6.0	0.13	341	4.95	0.01
ZZ53835		5.00	35.9	2.55	2.80	0.06	0.07	0.31	0.039	0.10	9.7	5.2	0.10	188	4.62	0.01
ZZ53836		7.89	66.9	2.96	2.83	0.06	0.08	0.26	0.040	0.12	8.1	4.4	0.09	206	11.90	0.01
ZZ53837		5.34	59.3	3.37	2.93	0.09	0.13	1.32	0.038	0.11	16.9	7.1	0.16	211	9.54	0.01
ZZ53838		3.78	34.0	4.15	4.11	0.07	0.03	0.29	0.036	0.09	10.3	5.8	0.12	314	11.85	0.01
ZZ53839		4.41	42.5	4.26	3.60	0.09	0.05	0.28	0.042	0.09	11.4	5.6	0.10	504	10.85	0.01
ZZ53840		3.04	22.8	3.10	5.13	0.07	0.04	0.25	0.031	0.06	10.1	10.6	0.17	136	8.41	0.01

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Project: ATAC- Regional- Area B,D- Dale

**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53803		0.49	78.8	1260	70.9	7.9	<0.001	0.10	2.04	2.4	2.2	0.5	40.7	<0.01	0.06	0.8
ZZ53804		0.46	105.5	1140	65.6	7.0	<0.001	0.12	1.94	2.0	2.9	0.5	40.1	<0.01	0.05	0.4
ZZ53805		0.64	38.5	1190	40.7	7.6	<0.001	0.12	1.16	1.8	1.4	0.5	32.0	<0.01	0.04	0.4
ZZ53806		0.46	52.4	1220	66.6	7.6	<0.001	0.14	2.04	1.7	3.0	0.5	44.8	<0.01	0.04	0.3
ZZ53807		0.32	61.2	2130	15.0	10.6	0.002	0.12	2.76	2.6	6.6	0.7	121.0	<0.01	0.08	0.5
ZZ53808		0.10	74.6	1710	9.9	6.1	<0.001	0.14	2.72	3.9	6.1	0.4	226	<0.01	0.08	0.6
ZZ53809		0.07	210	4260	13.6	12.0	0.011	0.20	11.70	7.2	26.6	0.7	384	<0.01	0.17	1.4
ZZ53810		0.09	127.0	2230	13.0	6.6	0.003	0.15	2.84	6.2	12.3	0.6	260	<0.01	0.11	1.3
ZZ53811		0.09	102.0	2180	11.4	7.0	0.003	0.26	2.15	4.3	9.8	0.5	210	<0.01	0.09	0.6
ZZ53812		0.09	57.6	1060	10.4	5.6	0.001	0.21	1.39	3.1	4.9	0.5	147.5	<0.01	0.09	0.3
ZZ53813		0.13	78.6	1580	15.7	7.4	0.001	0.11	1.88	4.7	4.8	0.5	135.5	<0.01	0.08	1.0
ZZ53814		0.14	64.8	1170	10.3	7.4	<0.001	0.10	1.22	2.9	5.7	0.4	56.7	<0.01	0.08	0.6
ZZ53815		0.21	28.3	1060	7.4	6.9	0.002	0.18	0.91	1.9	3.9	0.3	90.6	<0.01	0.06	0.4
ZZ53816		0.12	76.5	2450	10.0	8.7	0.003	0.20	1.45	4.3	6.9	0.4	131.0	<0.01	0.10	1.1
ZZ53817		0.08	51.8	2010	7.6	7.4	0.008	0.18	1.19	4.0	6.0	0.4	114.0	<0.01	0.08	0.9
ZZ53818		0.06	52.2	1740	10.4	8.0	0.001	0.18	1.05	4.4	8.2	0.5	125.5	<0.01	0.15	0.9
ZZ53819		0.06	71.9	1250	9.3	6.2	0.002	0.12	1.17	4.3	6.4	0.4	118.5	<0.01	0.16	0.9
ZZ53820		<0.05	54.0	540	12.8	8.5	0.006	0.19	1.32	6.0	6.6	0.5	79.9	<0.01	0.11	1.3
ZZ53821		0.13	83.4	1310	12.6	7.8	0.001	0.28	1.60	4.9	6.4	0.5	223	<0.01	0.07	0.5
ZZ53822		0.20	66.0	1590	12.0	6.2	0.001	0.12	2.19	4.8	7.8	0.5	220	<0.01	0.08	0.7
ZZ53823		0.16	79.2	1020	12.9	6.1	0.002	0.06	2.79	5.9	7.1	0.5	171.5	<0.01	0.08	1.1
ZZ53824		0.84	29.1	980	27.6	8.2	0.001	0.10	1.91	5.9	2.2	0.5	24.9	<0.01	0.03	0.4
ZZ53825		0.31	106.0	930	120.0	6.1	0.001	0.10	7.91	4.5	5.1	0.6	93.9	<0.01	0.10	0.8
ZZ53826		0.34	60.2	920	36.9	6.4	0.001	0.09	2.92	3.7	2.8	0.5	79.4	<0.01	0.04	0.7
ZZ53827		0.32	59.6	1240	32.1	8.0	0.001	0.18	2.76	2.5	3.5	0.5	39.9	<0.01	0.05	0.2
ZZ53828		0.41	67.6	1360	31.3	8.9	0.001	0.13	2.59	2.9	2.4	0.4	153.5	0.01	0.07	0.4
ZZ53829		0.37	58.9	1580	26.0	8.2	0.001	0.16	2.71	2.4	2.5	0.4	107.0	0.01	0.05	0.2
ZZ53830		0.16	96.7	2320	42.9	10.8	0.004	0.17	5.93	5.7	9.8	0.5	152.5	0.01	0.11	2.0
ZZ53831		0.15	138.5	4130	27.6	24.1	0.013	0.39	15.60	3.1	37.2	0.7	196.0	0.01	0.31	0.9
ZZ53832		0.23	56.6	980	31.1	11.6	0.002	0.09	2.00	3.5	4.2	0.4	60.7	0.01	0.07	1.3
ZZ53833		0.20	40.7	810	40.5	12.5	0.001	0.04	1.93	3.9	2.0	0.4	34.5	0.01	0.07	1.7
ZZ53834		0.21	56.2	840	53.3	12.5	<0.001	0.04	2.80	4.0	2.4	0.4	25.6	0.01	0.07	2.2
ZZ53835		0.20	48.3	1520	37.1	17.2	<0.001	0.05	2.07	2.9	1.9	0.5	25.4	0.01	0.07	1.4
ZZ53836		0.25	64.9	1050	47.9	15.0	<0.001	0.14	4.91	3.0	5.0	0.6	95.2	0.01	0.10	1.7
ZZ53837		0.35	192.5	1800	133.5	13.9	0.001	0.07	5.48	4.5	4.4	0.5	120.5	0.01	0.08	2.1
ZZ53838		0.59	124.5	1020	118.0	15.7	<0.001	0.04	4.09	2.7	3.4	0.6	61.2	<0.01	0.10	1.7
ZZ53839		0.43	120.0	1700	94.1	14.0	0.001	0.04	4.01	3.6	3.4	0.5	57.6	0.01	0.09	3.0
ZZ53840		0.58	91.5	1090	92.1	12.8	<0.001	0.04	2.79	2.2	2.5	0.6	46.2	<0.01	0.06	1.1

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**CERTIFICATE OF ANALYSIS WH12179448**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53803		0.020	0.39	1.78	68	0.41	21.1	423	0.9
ZZ53804		0.018	0.48	1.90	77	0.34	26.7	369	0.7
ZZ53805		0.022	0.23	2.47	72	0.26	22.4	188	0.5
ZZ53806		0.018	0.32	1.61	71	0.55	21.6	279	0.7
ZZ53807		0.011	0.56	3.67	168	0.23	20.3	282	1.0
ZZ53808		<0.005	0.27	5.38	100	0.12	41.0	248	2.2
ZZ53809		<0.005	1.33	10.35	466	0.44	57.2	1020	1.7
ZZ53810		<0.005	0.37	4.48	86	0.17	43.6	390	1.9
ZZ53811		<0.005	0.29	6.17	63	0.12	36.1	313	1.4
ZZ53812		<0.005	0.26	4.34	46	0.09	27.3	218	1.8
ZZ53813		<0.005	0.30	3.36	77	0.14	25.7	259	1.8
ZZ53814		<0.005	0.19	2.44	39	0.05	30.7	250	1.0
ZZ53815		0.007	0.11	2.30	31	<0.05	13.05	83	1.2
ZZ53816		<0.005	0.20	3.25	51	0.06	30.7	223	1.3
ZZ53817		<0.005	0.14	4.99	47	<0.05	29.0	125	1.8
ZZ53818		<0.005	0.12	2.20	58	<0.05	24.1	170	1.6
ZZ53819		<0.005	0.12	2.18	57	0.05	23.9	214	1.0
ZZ53820		<0.005	0.15	2.49	33	<0.05	17.10	195	1.1
ZZ53821		<0.005	0.30	4.27	62	0.10	36.9	280	2.1
ZZ53822		0.007	0.35	2.59	94	0.18	40.7	233	1.6
ZZ53823		0.005	0.42	2.36	69	0.17	31.1	284	1.9
ZZ53824		0.023	0.18	1.99	91	0.43	22.7	214	0.6
ZZ53825		0.013	0.97	2.44	90	1.14	27.3	714	1.4
ZZ53826		0.015	0.58	1.94	70	0.64	21.3	353	0.9
ZZ53827		0.008	0.48	3.10	93	0.52	35.5	398	0.8
ZZ53828		0.007	0.62	3.17	77	0.52	28.0	399	1.0
ZZ53829		0.006	0.71	3.81	82	0.41	32.6	419	0.8
ZZ53830		<0.005	1.26	4.11	132	0.27	27.8	551	2.8
ZZ53831		<0.005	2.16	13.40	380	0.43	35.8	630	1.4
ZZ53832		<0.005	0.79	1.67	73	0.11	20.3	319	2.2
ZZ53833		<0.005	0.67	1.68	66	0.11	14.65	267	1.3
ZZ53834		<0.005	0.77	1.51	74	0.11	15.20	370	1.4
ZZ53835		<0.005	0.96	1.85	86	0.14	15.80	333	1.2
ZZ53836		0.005	1.54	2.68	143	0.17	18.55	363	1.7
ZZ53837		0.007	11.15	6.71	364	0.31	52.6	1440	2.5
ZZ53838		0.012	3.08	2.34	258	0.28	17.30	723	0.5
ZZ53839		0.008	2.16	2.50	225	0.22	21.1	660	0.9
ZZ53840		0.009	2.00	1.79	195	0.29	13.45	485	0.9



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Project: ATAC- Regional- Area B,D- Dale

**CERTIFICATE OF ANALYSIS WH12179448**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Project: ATAC- Regional- Area B,D- Dale  
 P.O. No.: Soil 27  
 This report is for 209 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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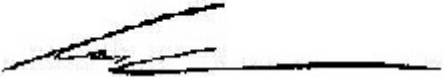
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58842		0.32	0.001	0.04	1.65	32.7	<0.2	<10	150	0.61	0.28	0.11	0.42	21.5	7.1	24
ZZ58843		0.22	0.002	0.23	2.30	32.5	<0.2	<10	300	1.12	0.27	1.04	2.03	39.1	10.8	44
ZZ58844		0.35	0.026	0.28	1.44	49.7	<0.2	<10	220	0.94	0.25	0.98	0.73	11.05	12.3	28
ZZ58845		0.28	0.007	0.31	1.20	220	<0.2	<10	440	0.96	0.19	4.90	1.22	14.95	9.1	20
ZZ58846		0.24	0.007	0.36	1.35	207	<0.2	<10	610	1.00	0.22	2.80	1.19	17.75	9.7	21
ZZ58847		0.29	0.008	0.45	1.11	125.5	<0.2	<10	500	0.78	0.19	2.97	1.01	13.45	8.8	21
ZZ58848		0.25	0.006	0.33	1.19	198.5	<0.2	<10	340	0.87	0.19	5.23	1.26	23.2	9.2	19
ZZ58849		0.42	0.007	0.51	1.32	364	<0.2	<10	420	1.10	0.21	4.63	1.50	20.2	10.4	22
ZZ58850		0.23	0.010	0.74	1.51	364	<0.2	<10	470	1.14	0.21	5.31	2.00	20.1	10.4	24
ZZ58851		0.29	0.004	0.63	1.13	214	<0.2	<10	260	0.80	0.19	5.33	1.68	21.8	9.4	21
ZZ58852		0.27	0.008	0.67	1.08	143.0	<0.2	<10	410	0.83	0.20	5.40	1.52	18.30	8.8	20
ZZ58853		0.37	0.010	0.72	1.10	139.0	<0.2	<10	270	1.03	0.28	2.67	2.30	21.2	14.0	19
ZZ58854		0.25	0.009	2.45	0.89	197.5	<0.2	<10	310	0.97	0.27	1.78	1.74	17.00	8.5	15
ZZ58855		0.28	0.011	0.99	0.71	116.5	<0.2	<10	120	0.55	0.29	0.03	0.56	12.35	10.6	12
ZZ58856		0.30	0.009	0.29	0.39	93.9	<0.2	<10	180	0.47	0.24	0.08	0.88	10.95	10.7	9
ZZ58857		0.38	0.008	1.20	0.82	192.0	<0.2	<10	290	0.91	0.26	0.19	1.18	23.3	9.2	14
ZZ58858		0.29	0.012	1.17	0.50	192.5	<0.2	<10	310	0.65	0.25	0.47	0.83	16.20	5.2	8
ZZ58859		0.20	0.005	0.47	0.54	118.0	<0.2	<10	300	0.57	0.23	0.64	0.43	10.25	4.1	8
ZZ58860		0.28	0.016	0.46	0.89	110.0	<0.2	<10	480	0.94	0.24	0.83	2.22	18.25	11.0	15
ZZ58861		0.23	0.011	0.59	0.75	208	<0.2	<10	320	0.87	0.24	0.37	1.68	15.50	8.5	12
ZZ58862		0.21	0.012	0.60	0.85	96.9	<0.2	<10	430	0.74	0.21	2.46	3.96	17.25	9.6	16
ZZ58863		0.29	0.003	0.81	1.04	289	<0.2	<10	260	0.88	0.22	3.31	4.12	27.5	11.0	19
ZZ58864		0.23	0.004	0.91	0.54	57.6	<0.2	<10	180	0.71	0.16	4.72	4.27	22.8	8.2	10
ZZ58865		0.33	0.013	0.96	0.56	63.4	<0.2	<10	140	0.83	0.20	3.86	5.36	34.4	9.6	10
ZZ58866		0.31	0.002	1.08	0.85	244	<0.2	<10	200	1.04	0.22	2.79	6.74	32.8	11.9	16
ZZ58867		0.32	0.003	0.97	0.85	298	<0.2	<10	300	1.05	0.17	2.20	25.8	25.8	16.6	21
ZZ58868		0.34	0.003	0.60	1.18	700	<0.2	<10	680	1.44	0.21	0.67	11.30	27.3	6.3	75
ZZ58869		0.32	0.003	0.45	1.18	186.0	<0.2	<10	460	0.82	0.22	1.05	4.99	17.80	11.4	22
ZZ58870		0.29	0.004	0.71	1.47	30.0	<0.2	<10	340	1.17	0.25	1.37	4.16	24.4	15.7	34
ZZ58871		0.35	0.004	1.25	1.11	37.8	<0.2	<10	260	1.01	0.23	2.67	4.87	22.4	12.5	44
ZZ58872		0.31	0.032	1.61	1.03	44.5	<0.2	<10	350	1.09	0.25	3.78	11.40	20.1	9.3	43
ZZ58873		0.38	0.002	0.20	1.79	41.6	<0.2	<10	190	1.03	0.30	0.32	0.76	33.2	22.5	27
ZZ58874		0.26	0.002	0.33	1.78	38.7	<0.2	<10	370	1.15	0.31	1.01	3.91	23.4	16.7	32
ZZ58875		0.38	0.004	0.34	1.44	33.1	<0.2	<10	290	1.08	0.29	0.44	0.60	26.7	16.0	25
ZZ58876		0.34	<0.001	0.20	1.86	28.7	<0.2	<10	440	1.04	0.28	0.50	0.38	20.4	12.1	27
ZZ58877		0.28	0.002	0.19	1.28	30.7	<0.2	<10	240	1.21	0.25	2.02	0.52	20.6	11.5	20
ZZ58878		0.33	0.002	0.10	1.08	20.5	<0.2	<10	170	1.33	0.37	1.25	0.24	24.2	13.2	19
ZZ58879		0.32	0.001	0.58	0.98	43.3	<0.2	<10	260	1.04	0.24	2.33	2.87	22.7	12.5	20
ZZ58880		0.31	0.001	0.21	0.96	34.9	<0.2	<10	450	1.33	0.31	2.80	0.76	24.1	11.5	15
ZZ58881		0.32	0.003	0.23	1.08	55.0	<0.2	<10	270	1.09	0.31	1.86	0.86	24.1	14.4	19



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58842		2.02	10.6	3.31	5.91	<0.05	0.03	0.03	0.033	0.06	8.6	18.1	0.19	220	1.18	0.02
ZZ58843		1.34	13.7	4.16	4.86	0.09	0.04	0.07	0.049	0.05	31.3	19.3	0.26	589	1.23	0.01
ZZ58844		1.72	26.2	3.58	4.08	0.05	0.05	0.12	0.045	0.11	10.9	24.8	0.38	311	0.93	0.02
ZZ58845		0.78	26.4	2.93	3.11	<0.05	0.04	0.53	0.028	0.08	7.6	11.3	1.71	820	1.66	0.02
ZZ58846		0.81	29.8	3.09	3.71	<0.05	0.04	0.60	0.028	0.08	9.9	13.2	0.88	795	1.88	0.02
ZZ58847		1.02	26.2	3.01	2.95	0.05	0.04	0.45	0.030	0.08	7.8	11.0	0.50	574	1.67	0.02
ZZ58848		1.11	25.9	3.14	3.23	0.05	0.03	0.64	0.025	0.07	11.7	12.0	2.72	1080	1.91	0.03
ZZ58849		1.22	33.5	3.15	3.55	<0.05	0.05	1.04	0.028	0.09	10.0	12.4	2.05	940	2.19	0.03
ZZ58850		1.26	44.4	3.05	3.54	<0.05	0.05	1.56	0.025	0.08	10.3	11.3	2.21	568	1.66	0.03
ZZ58851		1.38	31.4	2.79	3.14	0.05	0.05	0.94	0.026	0.09	11.1	12.1	2.39	414	2.46	0.03
ZZ58852		1.21	34.0	2.57	3.06	0.05	0.03	1.44	0.024	0.09	9.6	10.5	2.62	543	2.19	0.02
ZZ58853		4.04	54.7	3.62	3.64	0.06	0.04	0.52	0.035	0.15	9.6	12.6	1.53	773	6.36	0.02
ZZ58854		9.96	64.8	2.66	2.62	0.05	0.04	1.33	0.035	0.16	7.2	8.5	0.88	394	2.24	0.02
ZZ58855		18.50	61.1	3.52	2.29	<0.05	<0.02	0.18	0.043	0.11	4.3	4.3	0.10	355	5.72	0.01
ZZ58856		17.75	55.0	2.82	1.61	<0.05	<0.02	0.19	0.037	0.12	4.7	2.6	0.07	349	5.52	0.01
ZZ58857		13.60	58.1	3.08	2.48	0.06	0.02	0.69	0.038	0.12	9.5	8.6	0.17	363	3.80	0.01
ZZ58858		14.05	57.8	3.11	1.63	0.06	<0.02	0.54	0.037	0.12	6.0	3.0	0.12	109	4.09	0.01
ZZ58859		5.63	44.0	2.74	1.75	<0.05	0.02	0.73	0.029	0.12	4.2	3.0	0.14	128	5.18	0.02
ZZ58860		2.79	56.3	3.21	2.77	0.05	0.05	0.41	0.037	0.13	7.6	9.3	0.30	696	4.22	0.02
ZZ58861		4.16	52.3	2.98	2.27	<0.05	0.02	1.00	0.038	0.12	6.4	6.7	0.18	236	4.54	0.02
ZZ58862		2.37	45.4	2.42	2.65	<0.05	0.04	0.58	0.027	0.10	7.9	10.8	0.85	532	5.82	0.02
ZZ58863		1.50	36.0	2.96	2.76	0.06	0.05	0.27	0.033	0.11	16.5	10.4	0.99	500	5.56	0.02
ZZ58864		1.06	26.4	2.46	1.48	0.05	0.04	0.15	0.025	0.10	16.0	4.2	1.45	167	7.11	0.02
ZZ58865		0.78	27.7	2.57	1.54	0.07	0.04	0.17	0.031	0.10	23.4	4.0	0.92	158	9.21	0.01
ZZ58866		1.80	49.6	2.98	2.65	0.08	0.06	0.23	0.033	0.11	20.4	10.1	0.77	220	10.25	0.01
ZZ58867		1.81	93.0	2.91	2.72	0.08	0.05	0.23	0.031	0.09	17.0	8.5	0.47	323	12.40	0.01
ZZ58868		4.44	141.0	3.26	7.19	0.14	0.06	0.16	0.116	0.11	15.9	7.9	0.12	217	38.1	0.01
ZZ58869		0.97	43.6	2.98	3.85	<0.05	0.05	0.20	0.029	0.08	8.3	15.9	0.38	539	7.83	0.01
ZZ58870		0.95	69.2	3.28	4.82	0.07	0.04	0.25	0.038	0.10	15.5	23.7	0.49	1460	9.26	0.02
ZZ58871		0.94	78.7	2.90	3.86	0.07	0.04	0.36	0.033	0.12	15.7	17.1	1.00	500	9.33	0.01
ZZ58872		0.98	112.5	2.71	4.41	0.07	0.05	0.63	0.036	0.12	13.6	14.4	1.24	271	34.4	0.01
ZZ58873		1.41	65.3	4.68	5.05	0.07	0.07	0.18	0.041	0.12	15.0	37.5	0.66	969	2.49	0.01
ZZ58874		1.25	52.3	4.32	5.51	0.06	0.06	0.16	0.043	0.10	10.9	29.1	0.58	696	4.75	0.01
ZZ58875		1.94	48.4	4.11	4.46	0.05	0.06	0.13	0.039	0.10	12.1	25.7	0.49	507	3.29	0.01
ZZ58876		1.31	31.5	3.72	6.03	<0.05	0.07	0.11	0.037	0.10	8.6	22.1	0.42	544	2.17	0.01
ZZ58877		0.99	29.5	3.70	3.78	0.06	0.07	0.23	0.036	0.11	11.2	15.0	0.72	634	1.23	0.01
ZZ58878		1.60	39.1	4.44	3.91	<0.05	0.06	0.07	0.040	0.13	9.8	17.1	0.82	919	0.61	0.01
ZZ58879		1.34	46.0	3.09	3.34	0.06	0.06	0.18	0.034	0.13	12.3	13.9	0.93	458	9.01	0.01
ZZ58880		1.36	23.2	4.47	3.03	0.06	0.05	0.56	0.040	0.10	11.5	8.1	1.64	1710	1.06	0.01
ZZ58881		1.31	38.4	4.19	3.45	0.05	0.05	0.46	0.036	0.09	10.5	15.5	1.25	1100	1.45	0.01

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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ58842		0.82	22.5	500	24.0	13.3	0.001	0.03	0.54	2.6	1.0	0.8	11.2	<0.01	0.07	2.6
ZZ58843		0.78	31.7	1260	20.3	9.8	<0.001	0.05	0.64	5.6	2.4	0.6	33.2	0.01	0.18	2.4
ZZ58844		0.11	47.7	1000	16.1	10.8	0.001	0.06	0.53	6.1	1.6	0.5	22.3	<0.01	0.07	2.2
ZZ58845		0.29	36.1	800	34.6	6.0	<0.001	0.07	1.27	2.7	1.7	0.4	32.0	<0.01	0.04	0.8
ZZ58846		0.36	34.1	880	34.4	7.3	<0.001	0.07	1.34	2.9	1.7	0.5	26.4	<0.01	0.05	0.8
ZZ58847		0.24	35.7	850	24.4	7.3	0.001	0.07	1.07	3.1	1.5	0.4	34.4	<0.01	0.05	0.8
ZZ58848		0.37	33.7	770	33.7	7.7	0.001	0.05	1.32	3.4	1.7	0.4	34.1	<0.01	0.03	1.2
ZZ58849		0.33	43.4	920	41.8	7.1	<0.001	0.06	1.58	3.3	1.6	0.5	32.3	<0.01	0.05	1.1
ZZ58850		0.48	43.2	920	57.9	8.0	<0.001	0.07	1.56	3.2	1.8	0.5	45.6	<0.01	0.04	1.1
ZZ58851		0.49	40.5	910	40.4	6.9	0.001	0.03	1.73	3.9	1.6	0.5	52.1	<0.01	0.06	2.7
ZZ58852		0.37	36.0	890	44.7	6.7	<0.001	0.05	1.50	3.1	2.1	0.4	43.6	<0.01	0.04	1.0
ZZ58853		0.23	53.7	870	99.5	11.4	0.001	0.05	2.96	5.4	3.0	0.6	33.4	<0.01	0.06	4.1
ZZ58854		0.23	42.1	710	58.2	16.8	0.002	0.08	2.17	5.4	5.1	0.5	44.3	<0.01	0.07	3.4
ZZ58855		0.18	43.5	910	39.1	19.6	<0.001	0.02	3.49	2.8	2.8	0.5	10.7	<0.01	0.09	2.3
ZZ58856		0.16	41.0	630	26.3	13.6	0.001	0.03	3.20	2.9	2.6	0.4	18.8	<0.01	0.08	2.7
ZZ58857		0.27	33.5	920	28.3	17.7	0.001	0.03	2.58	4.1	3.2	0.5	22.9	<0.01	0.08	3.6
ZZ58858		0.16	27.5	830	29.5	15.5	0.001	0.06	2.54	3.8	4.6	0.4	33.8	<0.01	0.09	1.9
ZZ58859		0.18	17.6	620	18.5	11.5	0.001	0.08	1.87	2.8	3.1	0.5	38.6	<0.01	0.07	2.3
ZZ58860		0.24	39.7	790	30.4	10.4	0.001	0.07	2.30	4.5	2.7	0.5	42.4	<0.01	0.09	3.1
ZZ58861		0.18	37.3	820	28.8	12.5	0.003	0.06	2.42	3.8	3.0	0.5	22.0	<0.01	0.08	2.9
ZZ58862		0.27	52.6	800	26.1	7.6	0.001	0.06	3.87	3.9	2.7	0.5	40.8	<0.01	0.07	2.3
ZZ58863		0.29	58.9	800	21.3	8.1	<0.001	0.05	3.45	3.8	2.4	0.4	65.2	<0.01	0.07	1.6
ZZ58864		0.13	47.5	630	13.2	6.5	<0.001	0.08	3.86	2.8	3.0	0.3	106.5	<0.01	0.03	1.1
ZZ58865		0.12	56.4	520	16.4	6.2	<0.001	0.07	4.35	3.6	3.3	0.3	79.0	<0.01	0.05	2.2
ZZ58866		0.18	94.1	690	20.8	7.6	0.002	0.05	4.78	5.0	4.4	0.4	66.2	<0.01	0.06	3.2
ZZ58867		0.17	155.0	970	14.4	7.7	0.008	0.05	5.31	4.0	5.0	0.4	80.3	<0.01	0.07	1.6
ZZ58868		0.22	78.6	2650	15.8	11.4	0.002	0.17	15.45	6.5	10.3	0.7	342	<0.01	0.21	1.6
ZZ58869		0.29	45.3	810	19.7	7.8	0.002	0.05	3.44	3.6	2.3	0.5	37.5	<0.01	0.07	1.4
ZZ58870		0.31	80.5	1050	19.3	9.9	0.002	0.05	3.15	5.4	2.7	0.5	47.0	<0.01	0.12	1.6
ZZ58871		0.24	125.0	1240	20.0	8.6	0.004	0.04	4.29	5.2	4.0	0.5	63.4	<0.01	0.13	2.2
ZZ58872		0.22	161.5	1040	21.0	8.9	0.004	0.06	11.45	5.0	6.5	0.7	78.1	<0.01	0.16	1.8
ZZ58873		0.16	46.8	710	27.0	8.1	<0.001	0.01	1.11	7.7	1.5	0.4	26.5	<0.01	0.10	6.2
ZZ58874		0.41	90.3	630	25.8	10.3	0.003	0.04	2.03	6.0	2.2	0.5	34.6	<0.01	0.10	2.3
ZZ58875		0.40	37.6	710	26.3	11.3	0.002	0.01	1.29	6.9	1.8	0.5	24.9	<0.01	0.08	5.0
ZZ58876		0.43	23.3	880	21.1	13.4	0.001	0.04	0.82	4.1	1.0	0.6	23.6	<0.01	0.06	1.6
ZZ58877		0.34	28.5	580	29.5	10.3	<0.001	0.04	0.61	5.3	0.9	0.5	47.0	<0.01	0.06	2.4
ZZ58878		0.23	28.1	440	28.3	12.0	0.001	0.02	0.35	6.9	0.6	0.6	28.5	<0.01	0.03	6.6
ZZ58879		0.29	62.3	1050	21.4	10.5	0.002	0.05	3.55	4.9	2.5	0.5	46.0	<0.01	0.07	2.4
ZZ58880		0.18	22.9	530	50.5	10.8	<0.001	0.02	0.48	5.5	0.7	0.5	26.1	<0.01	0.04	4.2
ZZ58881		0.24	31.7	430	42.4	8.9	<0.001	0.02	0.87	5.8	1.0	0.5	24.2	<0.01	0.05	4.7

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58842		0.010	0.19	0.57	58	0.13	5.98	104	1.2
ZZ58843		0.008	0.16	3.60	62	0.15	43.9	113	1.3
ZZ58844		<0.005	0.14	1.08	35	<0.05	27.3	172	1.3
ZZ58845		0.005	0.30	1.43	51	0.20	13.95	216	1.1
ZZ58846		0.005	0.31	1.65	60	0.16	13.90	217	1.2
ZZ58847		<0.005	0.24	1.74	49	0.12	16.05	174	1.0
ZZ58848		0.009	0.39	1.45	55	0.20	16.30	179	1.1
ZZ58849		0.008	0.41	1.51	59	0.31	15.50	292	1.4
ZZ58850		0.008	0.39	1.61	57	0.34	16.10	377	1.5
ZZ58851		0.018	0.32	1.33	53	0.25	14.25	258	1.3
ZZ58852		0.011	0.29	1.28	49	0.21	15.65	221	1.1
ZZ58853		0.006	0.67	1.34	76	0.12	15.65	379	2.3
ZZ58854		<0.005	0.99	2.51	50	0.12	15.50	260	1.9
ZZ58855		<0.005	0.92	1.00	50	0.09	5.73	289	<0.5
ZZ58856		<0.005	0.48	0.83	41	0.07	5.31	279	0.5
ZZ58857		0.007	0.63	1.76	45	0.19	16.70	214	0.5
ZZ58858		<0.005	0.76	1.70	39	0.11	16.70	146	<0.5
ZZ58859		<0.005	0.39	1.61	42	0.07	8.42	87	0.7
ZZ58860		<0.005	0.37	1.63	64	0.08	14.40	265	1.9
ZZ58861		<0.005	0.63	1.52	58	0.14	12.65	258	0.9
ZZ58862		0.005	0.68	1.77	89	0.12	14.95	287	1.7
ZZ58863		0.007	0.76	1.26	108	0.17	21.2	469	1.3
ZZ58864		<0.005	0.41	1.87	68	<0.05	20.7	379	1.2
ZZ58865		<0.005	0.43	1.61	73	0.06	27.3	424	1.2
ZZ58866		<0.005	0.50	1.67	117	0.16	33.3	842	1.8
ZZ58867		<0.005	0.58	3.59	190	0.28	49.2	1860	1.6
ZZ58868		0.006	1.90	19.85	572	0.57	29.5	533	1.4
ZZ58869		0.006	0.34	3.51	141	0.13	14.60	353	1.3
ZZ58870		0.007	0.35	3.85	165	0.11	23.7	398	1.6
ZZ58871		0.005	0.34	2.84	235	0.14	25.7	570	1.6
ZZ58872		0.005	0.59	5.25	464	0.19	36.2	908	2.0
ZZ58873		0.006	0.24	0.98	50	0.05	14.20	139	3.6
ZZ58874		0.008	0.36	3.12	367	0.10	12.80	733	1.7
ZZ58875		0.010	0.28	1.94	42	0.10	11.85	171	2.0
ZZ58876		0.006	0.26	1.73	54	0.12	7.37	130	1.4
ZZ58877		0.005	0.27	1.11	30	0.08	13.25	152	2.2
ZZ58878		<0.005	0.17	0.88	23	<0.05	10.55	133	2.5
ZZ58879		0.005	0.35	2.09	119	0.11	18.50	351	2.0
ZZ58880		<0.005	0.33	1.23	22	0.07	12.35	281	1.2
ZZ58881		0.005	0.35	1.09	34	0.08	12.05	287	2.0



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58882		0.23	0.008	0.32	1.43	269	<0.2	<10	250	0.87	0.18	3.45	1.48	19.70	7.6	26
ZZ58883		0.24	0.002	0.20	1.84	183.5	<0.2	<10	310	1.13	0.23	1.88	3.03	34.7	11.3	32
ZZ58884		0.27	0.001	0.39	1.24	115.5	<0.2	<10	450	0.64	0.21	1.50	1.65	17.35	6.2	24
ZZ58885		0.33	0.007	0.72	1.22	132.0	<0.2	<10	340	0.78	0.19	1.37	0.83	19.95	7.7	25
ZZ58886		0.29	0.011	0.36	1.59	186.0	<0.2	<10	220	0.99	0.21	1.88	1.58	24.5	10.9	25
ZZ58887		0.30	0.009	0.45	1.32	381	<0.2	<10	230	1.00	0.21	3.30	1.73	29.5	12.0	25
ZZ58888		0.31	0.008	0.35	1.45	124.0	<0.2	<10	190	0.77	0.21	1.85	2.45	29.2	9.7	27
ZZ58889		0.28	0.152	1.36	1.72	1445	<0.2	<10	350	1.40	0.23	2.08	5.15	27.1	23.4	31
ZZ58890		0.25	0.008	0.53	1.65	704	<0.2	<10	260	1.51	0.22	1.49	2.74	22.9	11.4	29
ZZ58891		0.29	0.004	0.41	1.61	440	<0.2	<10	240	1.07	0.23	1.58	3.63	26.6	10.6	28
ZZ58892		0.33	0.006	0.52	1.18	368	<0.2	<10	220	0.81	0.19	0.88	4.30	28.2	10.3	25
ZZ58893		0.24	0.008	0.50	1.36	429	<0.2	<10	260	1.15	0.22	2.39	3.87	25.6	11.2	26
ZZ58894		0.33	0.008	1.81	0.46	283	<0.2	<10	250	1.15	0.21	1.11	2.00	11.90	6.1	9
ZZ58895		0.38	0.010	0.77	0.36	166.0	<0.2	<10	190	0.22	0.23	0.02	0.20	15.00	1.5	11
ZZ58896		0.32	0.007	1.40	0.66	572	<0.2	<10	250	0.59	0.25	0.08	0.77	17.90	5.2	16
ZZ58897		0.32	0.011	2.89	0.76	488	<0.2	<10	240	0.64	0.29	0.04	0.93	20.3	6.7	15
ZZ58898		0.38	0.009	3.25	0.73	195.5	<0.2	<10	360	1.17	0.23	0.88	3.43	26.8	10.3	15
ZZ58899		0.30	0.004	0.74	0.86	136.5	<0.2	<10	390	0.79	0.19	3.51	4.53	23.0	10.4	19
ZZ58900		0.35	0.005	0.83	1.13	204	<0.2	<10	530	1.12	0.22	0.76	4.11	21.6	11.7	19
ZZ58901		0.31	0.004	0.69	1.22	169.5	<0.2	<10	470	0.86	0.21	1.91	4.59	22.5	10.5	22
ZZ58902		0.32	0.004	3.52	0.80	464	<0.2	<10	200	0.94	0.14	7.70	11.50	22.5	8.1	18
ZZ58903		0.30	0.004	1.79	0.81	374	<0.2	<10	260	0.93	0.15	4.78	9.62	31.9	8.8	16
ZZ58904		0.22	0.003	1.85	0.60	384	<0.2	<10	170	0.84	0.18	6.02	6.08	26.6	10.0	14
ZZ58905		0.36	0.004	0.70	0.48	254	<0.2	<10	180	0.72	0.16	8.18	2.67	27.2	9.7	11
ZZ58906		0.32	0.002	0.78	1.47	160.0	<0.2	<10	260	1.32	0.27	1.08	1.34	45.8	12.2	27
ZZ58907		0.32	0.002	0.27	1.29	79.7	<0.2	<10	300	1.07	0.27	0.38	2.51	32.8	14.3	20
ZZ58908		0.34	0.003	0.51	1.48	89.4	<0.2	<10	390	1.10	0.27	0.73	1.99	34.0	12.3	26
ZZ58909		0.30	0.001	0.05	1.69	28.8	<0.2	<10	280	0.86	0.34	0.35	0.97	15.80	15.1	25
ZZ58910		0.31	0.001	0.44	1.63	31.6	<0.2	<10	340	1.09	0.30	0.67	1.63	24.7	16.4	29
ZZ58911		0.29	0.006	0.28	1.34	23.4	<0.2	<10	220	0.88	0.24	1.28	2.06	26.6	12.1	28
ZZ58912		0.34	0.002	0.21	1.57	31.1	<0.2	<10	370	1.13	0.31	0.70	0.65	25.2	14.0	25
ZZ58913		0.31	0.003	0.19	1.63	24.0	<0.2	<10	170	1.00	0.34	0.22	0.42	22.1	15.4	26
ZZ58914		0.41	0.004	1.12	1.44	21.2	<0.2	<10	350	1.25	0.28	1.43	20.2	16.15	13.7	24
ZZ58915		0.32	0.006	0.64	1.48	22.8	<0.2	<10	390	1.16	0.33	0.78	5.52	21.3	15.3	26
ZZ58916		0.31	0.001	0.07	0.65	9.4	<0.2	10	600	1.31	0.21	1.81	0.33	30.4	14.6	15
ZZ58917		0.33	0.002	0.07	1.58	17.0	<0.2	<10	360	0.71	0.32	0.28	0.15	18.40	12.0	26
ZZ58918		0.37	0.003	0.22	1.72	78.9	<0.2	<10	370	1.61	0.39	0.30	0.56	30.0	20.9	28
ZZ58919		0.33	0.004	0.11	1.78	48.7	<0.2	<10	250	1.12	0.33	0.22	0.32	32.0	14.7	25
ZZ58920		0.28	0.002	0.17	1.60	33.1	<0.2	<10	380	1.11	0.27	0.58	0.32	26.0	14.2	25
ZZ58921		0.38	0.003	0.29	1.49	117.0	<0.2	<10	290	1.16	0.28	1.08	0.87	25.0	16.4	23



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58882		1.22	20.5	2.60	3.81	<0.05	0.04	0.24	0.029	0.06	18.0	10.7	0.32	353	2.60	0.01
ZZ58883		1.58	22.3	3.28	5.09	0.07	0.05	0.18	0.035	0.07	27.6	12.3	0.40	568	3.10	0.02
ZZ58884		2.25	18.3	2.35	4.01	<0.05	0.02	0.10	0.030	0.08	8.6	8.1	0.22	270	2.79	0.01
ZZ58885		1.72	24.7	2.59	3.32	0.05	0.03	0.50	0.028	0.07	10.8	7.8	0.25	358	4.53	0.01
ZZ58886		1.45	26.0	2.79	4.40	<0.05	0.02	1.09	0.033	0.06	11.6	10.3	0.35	618	4.51	0.01
ZZ58887		1.58	31.0	3.47	3.75	0.07	0.02	1.80	0.031	0.08	20.1	11.0	0.35	522	9.28	0.02
ZZ58888		1.48	19.9	2.75	4.54	0.05	0.02	1.32	0.031	0.06	17.3	11.3	0.36	470	2.23	0.02
ZZ58889		2.09	31.8	4.48	5.00	0.07	0.03	2.76	0.037	0.10	18.0	13.0	0.40	1100	6.60	0.01
ZZ58890		2.69	36.1	3.35	4.67	0.14	0.08	0.65	0.033	0.11	13.0	14.3	0.39	466	3.95	0.01
ZZ58891		1.63	24.1	3.16	4.71	0.13	0.04	0.49	0.032	0.06	14.3	11.6	0.39	577	3.56	0.01
ZZ58892		1.83	26.6	2.94	3.50	0.13	0.05	0.62	0.028	0.07	15.7	10.8	0.36	439	6.17	0.01
ZZ58893		1.42	25.9	2.92	3.95	0.12	0.05	1.17	0.030	0.07	14.0	11.3	0.41	582	4.55	0.02
ZZ58894		2.89	75.2	1.99	1.41	0.10	0.05	1.09	0.038	0.10	5.2	2.3	0.07	120	3.12	0.01
ZZ58895		3.44	24.0	1.20	2.04	0.06	<0.02	0.24	0.072	0.14	6.1	1.5	0.03	65	5.83	0.01
ZZ58896		3.97	32.8	2.46	2.84	0.11	0.02	0.31	0.049	0.13	8.0	4.6	0.11	233	5.97	0.01
ZZ58897		7.22	55.1	2.24	3.18	0.11	0.04	0.95	0.047	0.11	8.5	3.7	0.09	199	3.57	0.01
ZZ58898		6.35	79.9	3.21	2.46	0.17	0.07	1.07	0.045	0.12	12.9	7.4	0.38	326	5.10	0.01
ZZ58899		1.70	39.5	2.79	2.83	0.11	0.07	0.55	0.030	0.09	13.1	9.5	1.54	622	5.06	0.02
ZZ58900		1.57	58.6	3.42	3.79	0.14	0.07	0.59	0.037	0.10	11.3	12.3	0.33	894	3.98	0.01
ZZ58901		1.19	36.4	2.73	3.70	0.11	0.06	0.63	0.034	0.08	13.3	13.8	0.49	597	4.72	0.01
ZZ58902		2.23	25.4	2.01	2.39	0.12	0.06	2.64	0.026	0.09	15.6	7.9	3.01	427	13.45	0.02
ZZ58903		1.40	21.8	2.35	2.01	0.10	0.06	2.19	0.032	0.08	19.8	6.5	1.28	300	10.65	0.02
ZZ58904		2.15	28.5	2.51	1.67	0.10	0.07	1.84	0.031	0.13	16.8	6.4	1.80	229	10.60	0.02
ZZ58905		1.71	23.9	2.36	1.34	0.10	0.06	0.21	0.032	0.18	16.0	5.1	2.19	211	9.74	0.02
ZZ58906		1.42	29.5	3.77	4.09	0.15	0.08	0.32	0.041	0.10	35.3	14.2	0.40	559	7.13	0.01
ZZ58907		2.13	35.6	3.71	3.85	0.11	0.06	0.10	0.048	0.13	13.1	15.0	0.22	575	12.70	0.01
ZZ58908		1.93	35.1	3.76	4.28	0.13	0.07	0.26	0.042	0.11	17.9	18.6	0.50	467	7.57	0.01
ZZ58909		1.69	29.0	4.17	5.33	0.07	0.06	0.04	0.038	0.09	6.2	27.9	0.43	768	3.31	0.01
ZZ58910		1.48	42.3	4.13	4.88	0.10	0.08	0.17	0.042	0.09	11.5	29.6	0.52	594	3.81	0.01
ZZ58911		1.53	31.5	3.44	4.03	0.10	0.06	0.09	0.040	0.10	12.4	21.9	0.47	469	8.08	0.01
ZZ58912		1.29	41.6	4.30	4.73	0.10	0.09	0.09	0.041	0.09	10.4	25.5	0.50	733	4.69	0.01
ZZ58913		1.89	41.5	4.26	5.08	0.09	0.05	0.04	0.040	0.10	8.8	26.8	0.45	833	1.84	0.01
ZZ58914		2.27	55.8	3.21	4.13	0.12	0.10	0.24	0.036	0.10	8.3	22.8	0.44	370	12.15	0.01
ZZ58915		1.72	53.1	3.77	4.90	0.12	0.09	0.14	0.041	0.11	10.3	26.9	0.49	508	14.95	0.01
ZZ58916		1.45	23.0	3.93	1.88	0.12	0.07	0.05	0.045	0.17	12.3	6.8	0.19	411	2.60	0.01
ZZ58917		2.00	28.5	4.13	5.98	0.08	0.03	0.05	0.038	0.10	7.8	30.2	0.33	552	1.16	0.01
ZZ58918		1.69	54.2	5.94	5.30	0.14	0.09	0.52	0.045	0.11	14.3	23.4	0.52	1980	1.20	0.01
ZZ58919		1.83	36.6	4.57	5.34	0.10	0.05	0.13	0.041	0.09	11.8	20.3	0.41	1090	1.11	0.01
ZZ58920		1.26	34.9	5.11	4.52	0.11	0.07	0.12	0.035	0.09	10.6	23.6	0.49	1960	1.09	0.01
ZZ58921		1.25	47.5	5.17	4.14	0.12	0.10	0.82	0.040	0.09	11.7	21.7	0.92	1420	1.00	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58882	0.65	51.3	1010	25.4	10.3	0.001	0.05	1.25	2.5	1.7	0.4	36.0	<0.01	0.07	0.7	
ZZ58883	0.71	61.8	890	24.7	11.3	<0.001	0.05	1.26	3.3	1.8	0.6	27.8	<0.01	0.04	1.1	
ZZ58884	0.62	30.1	590	16.1	11.4	<0.001	0.06	0.91	2.3	2.2	0.5	27.2	<0.01	0.08	0.7	
ZZ58885	0.37	41.8	790	21.1	8.2	0.001	0.08	1.16	2.3	2.3	0.4	25.7	<0.01	0.08	0.6	
ZZ58886	0.45	40.2	1250	22.3	10.8	<0.001	0.12	1.24	1.3	1.6	0.4	28.5	<0.01	0.08	0.3	
ZZ58887	0.54	66.5	750	23.8	8.9	0.002	0.07	3.29	3.2	3.4	0.5	39.7	<0.01	0.10	1.0	
ZZ58888	0.89	35.3	730	20.4	9.7	<0.001	0.05	1.33	3.5	1.7	0.5	30.7	<0.01	0.08	1.5	
ZZ58889	0.45	289	1060	97.6	10.4	0.001	0.07	3.16	3.1	4.4	0.6	36.3	<0.01	0.07	0.9	
ZZ58890	0.49	85.1	1180	42.3	12.3	0.001	0.07	1.93	3.4	2.2	0.5	30.3	0.01	0.08	1.1	
ZZ58891	0.52	51.0	1080	30.2	10.0	0.002	0.08	1.60	2.7	1.8	0.5	24.0	0.01	0.06	0.6	
ZZ58892	0.41	59.2	990	40.2	8.4	0.002	0.04	2.14	3.3	2.1	0.4	32.1	0.01	0.04	1.5	
ZZ58893	0.45	58.3	1250	37.2	7.6	0.001	0.08	2.04	2.4	1.6	0.5	32.9	0.01	0.08	0.7	
ZZ58894	0.14	41.0	910	28.0	9.6	0.002	0.06	2.80	3.5	2.8	0.4	26.1	<0.01	0.07	1.6	
ZZ58895	0.11	8.1	540	21.6	13.6	0.001	0.17	1.28	2.0	1.3	0.4	18.9	<0.01	0.14	3.8	
ZZ58896	0.22	29.2	920	50.4	13.8	0.001	0.15	3.15	3.6	2.5	0.5	33.5	<0.01	0.12	3.3	
ZZ58897	0.28	23.0	910	61.5	16.8	0.001	0.05	2.83	3.8	2.8	0.6	29.1	<0.01	0.08	1.8	
ZZ58898	0.23	57.8	1120	76.0	13.1	0.002	0.04	4.08	7.1	4.5	0.5	43.2	0.01	0.07	4.6	
ZZ58899	0.28	52.0	1080	61.2	8.4	0.002	0.03	2.93	4.5	3.0	0.4	45.2	<0.01	0.06	3.5	
ZZ58900	0.22	52.3	900	96.4	10.6	0.001	0.02	2.37	5.0	2.4	0.4	24.5	<0.01	0.09	2.4	
ZZ58901	0.32	51.6	900	46.3	9.0	0.003	0.07	2.34	2.9	2.7	0.4	32.8	0.01	0.05	0.9	
ZZ58902	0.25	68.5	1190	283	7.7	0.002	0.05	6.14	2.6	7.6	0.4	74.9	<0.01	0.05	0.9	
ZZ58903	0.24	60.4	740	80.4	7.8	0.001	0.09	5.55	2.4	4.6	0.4	62.4	0.01	0.05	0.8	
ZZ58904	0.20	76.1	690	117.5	8.4	0.001	0.05	5.88	3.6	4.8	0.3	98.0	0.01	0.04	2.0	
ZZ58905	0.20	65.0	680	20.1	7.0	0.001	0.04	3.80	3.8	3.1	0.3	126.5	0.01	0.04	3.1	
ZZ58906	0.44	55.9	760	43.7	12.5	0.001	0.05	3.21	4.5	2.7	0.5	33.1	0.01	0.07	1.9	
ZZ58907	0.32	54.4	1110	28.9	13.2	0.002	0.04	3.53	4.7	2.2	0.6	24.9	<0.01	0.06	3.3	
ZZ58908	0.50	53.7	730	31.3	12.6	0.002	0.04	3.52	6.0	2.2	0.6	26.7	0.01	0.06	3.3	
ZZ58909	0.32	29.6	710	25.3	13.8	0.001	0.04	0.73	3.3	0.9	0.7	15.4	<0.01	0.06	2.0	
ZZ58910	0.31	53.6	550	37.1	10.3	0.001	0.04	1.53	5.9	1.8	0.6	24.8	<0.01	0.07	2.8	
ZZ58911	0.40	48.1	840	18.6	12.9	0.001	0.05	2.01	3.7	2.4	0.6	33.5	<0.01	0.06	2.3	
ZZ58912	0.32	44.2	600	23.2	10.4	0.001	0.04	1.53	6.1	1.6	0.6	24.2	<0.01	0.06	3.0	
ZZ58913	0.32	30.4	670	26.6	11.7	<0.001	0.03	0.66	4.9	0.9	0.7	12.8	<0.01	0.05	3.3	
ZZ58914	0.28	242	820	17.3	9.9	0.005	0.09	5.27	4.5	5.6	0.6	49.9	0.01	0.08	1.6	
ZZ58915	0.29	80.3	770	22.1	10.0	0.004	0.05	6.26	5.7	3.7	0.7	36.4	<0.01	0.09	3.2	
ZZ58916	0.31	41.3	630	17.7	11.0	0.002	0.08	0.32	5.3	0.9	0.5	52.0	<0.01	0.02	2.7	
ZZ58917	0.62	19.8	480	23.0	17.3	<0.001	0.03	0.51	3.9	0.6	0.8	15.9	<0.01	0.06	2.7	
ZZ58918	0.30	38.7	650	74.8	13.1	<0.001	0.02	0.79	8.8	1.1	0.8	17.9	0.01	0.08	5.2	
ZZ58919	0.37	29.3	670	47.7	13.3	<0.001	0.02	0.61	4.8	0.7	0.7	14.7	<0.01	0.06	3.2	
ZZ58920	0.35	26.3	730	30.1	11.2	<0.001	0.04	0.67	5.2	1.1	0.5	26.2	<0.01	0.06	1.8	
ZZ58921	0.22	32.2	440	69.2	8.8	<0.001	0.03	1.12	7.0	0.9	0.5	22.0	<0.01	0.07	3.5	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area B,D- Dale

**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58882		0.014	0.31	2.90	73	0.30	23.0	265	1.0
ZZ58883		0.020	0.29	1.43	86	0.44	32.2	339	1.3
ZZ58884		0.014	0.22	2.14	59	0.29	9.57	159	0.7
ZZ58885		0.010	0.27	2.42	57	0.18	17.45	155	0.8
ZZ58886		0.013	0.46	2.27	58	0.32	13.20	188	0.6
ZZ58887		0.019	0.66	1.20	71	0.47	23.4	208	0.7
ZZ58888		0.030	0.26	2.12	72	0.28	18.40	157	0.8
ZZ58889		0.012	1.12	2.34	89	0.62	27.8	1160	0.9
ZZ58890		0.009	0.66	2.78	79	0.52	20.3	518	1.5
ZZ58891		0.014	0.41	3.07	73	0.40	16.20	276	0.8
ZZ58892		0.017	0.43	2.70	67	0.36	16.45	329	0.9
ZZ58893		0.012	0.39	2.67	68	0.41	16.40	358	0.9
ZZ58894		<0.005	0.58	5.48	45	0.45	13.45	207	1.2
ZZ58895		<0.005	0.73	1.21	52	0.37	2.06	38	<0.5
ZZ58896		0.005	0.81	1.10	75	0.29	7.06	172	<0.5
ZZ58897		<0.005	0.70	1.62	58	0.30	14.20	138	<0.5
ZZ58898		<0.005	0.70	2.27	64	0.38	29.1	529	1.6
ZZ58899		0.006	0.44	1.91	90	0.17	20.9	490	1.8
ZZ58900		<0.005	0.33	2.18	79	0.21	18.60	375	1.4
ZZ58901		0.005	0.74	2.21	109	0.13	16.50	418	1.3
ZZ58902		0.006	2.39	3.41	134	0.37	23.0	1180	1.2
ZZ58903		<0.005	1.41	2.62	122	0.24	22.7	861	1.1
ZZ58904		<0.005	1.83	1.66	105	0.20	20.9	1030	1.5
ZZ58905		<0.005	1.11	1.69	72	0.13	18.80	503	1.4
ZZ58906		0.010	0.50	1.44	106	0.21	38.5	337	1.2
ZZ58907		<0.005	0.46	2.54	123	0.12	14.35	303	1.6
ZZ58908		0.011	0.42	1.94	172	0.15	19.05	253	1.8
ZZ58909		<0.005	0.18	0.99	63	0.06	4.33	142	1.6
ZZ58910		<0.005	0.26	1.87	127	0.07	12.25	199	2.0
ZZ58911		0.007	0.23	1.99	95	0.11	11.70	227	1.5
ZZ58912		0.005	0.24	1.19	82	0.07	11.45	159	2.3
ZZ58913		0.005	0.14	0.87	39	0.07	7.75	129	1.3
ZZ58914		<0.005	1.15	5.26	184	0.12	43.2	2110	2.6
ZZ58915		0.005	0.48	2.08	154	0.20	16.05	523	2.5
ZZ58916		<0.005	0.18	0.65	20	0.05	11.55	122	2.8
ZZ58917		0.007	0.16	1.35	44	0.15	4.92	92	0.7
ZZ58918		0.005	0.50	1.47	39	0.16	16.50	373	2.1
ZZ58919		0.006	0.38	0.94	42	0.13	8.16	203	0.9
ZZ58920		0.008	0.28	1.40	36	0.08	10.25	119	1.6
ZZ58921		<0.005	0.59	0.91	36	0.10	11.70	338	2.5



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58922		0.40	0.003	0.10	1.83	175.0	<0.2	<10	200	0.83	0.28	0.08	0.16	27.5	13.8	28
ZZ58923		0.29	0.002	0.10	1.19	42.5	<0.2	<10	90	0.48	0.32	0.03	0.12	18.70	10.0	19
ZZ58924		0.34	0.003	0.66	1.59	55.2	<0.2	<10	310	1.01	0.18	4.82	1.68	26.5	6.7	20
ZZ58925		0.28	0.003	0.69	1.51	49.0	<0.2	<10	150	1.01	0.20	6.00	0.76	20.2	8.4	19
ZZ58926		0.40	0.001	0.07	1.72	73.5	<0.2	<10	210	1.19	0.34	0.17	0.29	37.5	20.5	27
ZZ58927		0.24	0.005	0.61	1.03	134.0	<0.2	<10	280	0.77	0.16	7.40	3.75	25.6	8.9	15
ZZ58928		0.31	0.003	0.39	1.49	51.0	<0.2	<10	310	1.04	0.29	0.74	1.28	26.9	16.8	26
ZZ58929		0.37	0.003	0.30	1.35	59.7	<0.2	<10	340	0.94	0.28	1.94	0.96	23.4	15.6	22
ZZ58930		0.30	0.002	0.27	1.38	54.8	<0.2	<10	250	0.83	0.24	2.46	1.14	26.2	13.3	23
ZZ58931		0.38	0.004	0.18	1.42	30.8	<0.2	<10	300	1.06	0.28	0.74	0.91	27.7	16.0	25
ZZ58932		0.36	0.002	0.14	1.48	26.8	<0.2	<10	300	1.33	0.34	0.39	0.23	24.2	11.3	22
ZZ58933		0.33	0.002	0.14	1.71	21.8	<0.2	<10	310	1.08	0.29	0.31	0.41	24.3	12.2	24
ZZ58934		0.36	0.001	0.29	1.42	23.9	<0.2	<10	250	1.22	0.30	1.01	1.69	21.1	12.3	23
ZZ58935		0.29	0.004	0.16	1.56	29.9	<0.2	<10	210	1.25	0.34	0.58	0.29	21.3	13.3	25
ZZ58936		0.31	<0.001	0.05	2.01	5.2	<0.2	<10	60	1.07	0.54	0.02	0.05	16.15	14.9	32
ZZ58937		0.23	0.001	0.03	1.33	14.5	<0.2	<10	90	0.37	0.40	0.03	0.16	24.3	10.1	25
ZZ59058		0.26	0.037	0.31	1.28	545	<0.2	<10	170	0.70	0.19	3.29	2.15	20.4	8.6	25
ZZ59059		0.23	0.017	0.27	1.50	190.5	<0.2	<10	270	0.89	0.22	1.95	1.13	19.55	8.8	24
ZZ59060		0.25	0.003	0.30	1.41	252	<0.2	<10	230	0.71	0.18	2.33	0.84	18.00	7.5	24
ZZ59061		0.27	0.021	0.55	1.29	424	<0.2	<10	400	1.02	0.17	2.58	0.61	14.55	7.8	23
ZZ59062		0.29	0.007	0.48	1.46	325	<0.2	<10	250	1.16	0.21	2.15	1.66	20.9	8.8	26
ZZ59063		0.25	0.021	0.66	0.90	156.0	<0.2	<10	220	0.77	0.14	2.99	1.19	13.15	5.3	18
ZZ59064		0.25	0.007	0.44	1.28	305	<0.2	<10	280	1.05	0.19	2.42	1.81	18.20	8.7	22
ZZ59065		0.31	0.010	0.50	1.45	655	<0.2	<10	440	1.37	0.19	1.97	1.24	18.50	9.7	26
ZZ59066		0.33	0.006	0.66	1.30	302	<0.2	<10	240	1.11	0.22	2.01	1.85	23.9	9.3	25
ZZ59067		0.31	0.009	0.42	1.34	557	<0.2	<10	240	1.09	0.21	2.69	2.52	21.0	13.0	24
ZZ59068		0.31	0.018	1.42	1.04	2280	<0.2	<10	340	1.38	0.21	1.92	3.21	15.00	8.9	24
ZZ59069		0.32	0.010	2.71	1.03	424	<0.2	<10	170	1.08	0.25	0.22	3.77	35.1	10.8	17
ZZ59070		0.25	0.006	1.24	1.89	232	<0.2	<10	430	1.09	0.25	0.14	0.55	24.1	10.7	27
ZZ59071		0.29	0.009	2.25	1.01	270	<0.2	<10	110	0.62	0.24	0.05	0.70	11.15	9.9	17
ZZ59072		0.30	0.005	1.16	0.47	287	<0.2	<10	80	0.25	0.27	0.01	0.51	4.57	5.8	9
ZZ59073		0.39	0.006	0.66	0.32	54.5	<0.2	<10	140	0.34	0.21	0.07	0.80	7.40	9.0	7
ZZ59074		0.22	0.010	0.94	0.33	51.9	<0.2	<10	150	0.19	0.17	0.25	0.57	5.53	2.1	6
ZZ59075		0.36	0.009	0.62	0.55	119.0	<0.2	<10	290	0.51	0.21	0.52	1.25	11.35	6.8	9
ZZ59076		0.36	0.008	0.66	0.72	140.0	<0.2	<10	350	0.56	0.21	0.75	1.11	11.75	7.9	12
ZZ59077		0.32	0.012	1.31	0.94	252	<0.2	<10	890	0.71	0.18	1.27	2.96	13.65	7.6	24
ZZ59078		0.27	0.026	1.53	0.96	273	<0.2	<10	310	0.96	0.21	2.85	4.80	21.8	9.7	25
ZZ59079		0.26	0.006	2.84	0.63	224	<0.2	<10	200	0.84	0.17	2.15	6.51	31.1	8.6	13
ZZ59080		0.24	0.019	0.42	0.50	50.6	<0.2	<10	260	0.53	0.09	3.04	0.67	14.50	4.4	8
ZZ59081		0.21	0.010	0.34	0.45	76.9	<0.2	<10	250	0.44	0.07	3.42	2.32	11.70	3.7	8





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58922		1.68	36.6	3.79	5.28	0.08	0.03	0.36	0.037	0.07	11.3	23.4	0.47	530	1.08	0.01
ZZ58923		3.15	27.6	3.44	4.19	0.07	0.02	0.04	0.034	0.09	8.0	10.1	0.15	162	0.77	0.01
ZZ58924		2.06	13.9	3.63	3.75	0.09	0.05	1.34	0.029	0.05	12.6	12.4	2.90	2440	1.01	0.02
ZZ58925		1.94	26.9	3.76	3.18	0.09	0.10	0.23	0.034	0.09	12.8	16.2	3.74	1150	1.24	0.02
ZZ58926		1.97	57.8	4.75	4.59	0.11	0.06	0.06	0.045	0.10	12.1	25.0	0.66	799	0.69	0.01
ZZ58927		1.33	24.9	5.81	2.71	0.13	0.09	1.24	0.028	0.07	14.0	9.3	4.40	3330	0.66	0.02
ZZ58928		1.63	52.7	4.85	4.34	0.11	0.09	0.50	0.042	0.11	12.6	19.2	0.62	1280	0.94	0.01
ZZ58929		1.63	53.5	4.58	3.87	0.11	0.09	0.50	0.044	0.11	11.1	19.3	1.27	1070	1.05	0.01
ZZ58930		1.38	33.5	4.84	4.10	0.11	0.07	0.28	0.036	0.09	12.0	23.0	1.68	1540	1.11	0.01
ZZ58931		1.56	51.7	4.61	3.98	0.12	0.09	0.16	0.039	0.10	13.6	28.5	0.66	787	1.02	0.01
ZZ58932		1.86	22.1	3.80	4.65	0.09	0.09	0.16	0.038	0.12	10.5	21.8	0.39	473	1.42	0.01
ZZ58933		1.70	31.7	3.95	5.49	0.09	0.08	0.11	0.041	0.09	11.7	18.4	0.27	421	3.29	0.01
ZZ58934		1.26	39.0	3.68	4.21	0.10	0.11	0.10	0.037	0.10	11.6	21.0	0.38	472	4.52	0.01
ZZ58935		1.64	45.8	4.42	4.78	0.11	0.09	0.18	0.042	0.13	10.7	26.8	0.53	469	0.72	0.01
ZZ58936		1.75	26.2	4.51	7.70	0.08	0.06	0.03	0.032	0.12	6.6	37.3	0.46	391	0.36	0.01
ZZ58937		1.63	19.6	4.24	7.52	0.09	<0.02	0.03	0.030	0.08	11.1	13.6	0.24	624	1.82	0.01
ZZ59058		1.04	15.0	2.26	3.15	0.07	0.03	1.95	0.028	0.06	13.3	10.2	0.30	662	1.31	0.01
ZZ59059		1.34	19.2	2.96	4.44	0.08	0.05	0.57	0.028	0.07	10.9	11.3	0.27	788	2.81	0.01
ZZ59060		1.01	18.5	2.48	3.95	0.07	0.03	0.58	0.021	0.05	12.7	10.2	0.32	418	1.50	0.01
ZZ59061		2.39	30.4	2.47	3.55	0.08	0.06	0.67	0.025	0.08	11.2	12.0	0.22	343	2.60	0.01
ZZ59062		1.69	26.4	3.01	4.09	0.09	0.05	0.86	0.029	0.08	16.4	12.5	0.27	573	3.18	0.01
ZZ59063		1.14	19.8	1.96	2.28	0.07	0.04	0.43	0.021	0.05	11.1	7.2	0.18	314	1.95	0.01
ZZ59064		1.42	25.1	2.79	3.34	0.08	0.04	0.54	0.024	0.06	9.9	12.1	0.33	600	2.06	0.01
ZZ59065		2.44	41.2	2.95	3.93	0.08	0.06	0.60	0.025	0.08	10.3	12.6	0.35	519	2.28	0.01
ZZ59066		1.96	26.4	3.43	3.59	0.10	0.06	0.37	0.030	0.07	13.0	12.1	0.34	587	2.68	0.01
ZZ59067		1.97	30.4	3.09	3.59	0.09	0.06	0.69	0.026	0.08	10.7	13.4	0.54	539	2.57	0.01
ZZ59068		3.21	45.3	3.84	3.62	0.11	0.08	2.42	0.031	0.13	7.2	7.0	0.16	317	7.36	0.01
ZZ59069		7.94	43.6	3.31	3.02	0.14	0.07	0.73	0.032	0.10	14.2	6.1	0.12	500	4.83	0.01
ZZ59070		4.61	56.9	3.24	4.93	0.10	0.08	0.70	0.038	0.06	11.2	10.1	0.21	646	2.80	<0.01
ZZ59071		8.31	53.9	4.23	2.72	0.10	0.05	0.54	0.038	0.08	4.8	9.8	0.15	319	4.68	0.01
ZZ59072		9.45	51.4	2.96	2.24	0.06	<0.02	0.63	0.030	0.09	2.2	1.0	0.03	122	5.62	<0.01
ZZ59073		14.70	64.9	2.86	1.34	0.08	<0.02	0.17	0.030	0.09	3.0	1.1	0.04	182	6.48	<0.01
ZZ59074		8.78	22.6	1.02	1.32	0.05	0.02	0.39	0.015	0.09	2.4	1.6	0.08	52	2.89	<0.01
ZZ59075		3.36	36.2	2.34	1.73	0.07	0.03	0.31	0.029	0.10	4.5	4.2	0.14	225	3.30	0.01
ZZ59076		3.79	34.4	2.54	2.19	0.07	0.06	0.36	0.028	0.10	4.6	6.5	0.21	471	3.34	0.01
ZZ59077		1.49	42.9	2.71	2.77	0.09	0.07	0.88	0.026	0.07	8.1	9.1	0.25	334	5.94	0.01
ZZ59078		1.46	40.9	3.04	3.09	0.12	0.06	1.49	0.027	0.11	15.2	11.8	0.94	571	9.29	0.01
ZZ59079		1.50	23.5	2.50	1.85	0.10	0.06	5.86	0.030	0.09	17.9	7.2	0.30	241	5.46	0.01
ZZ59080		0.69	17.8	1.25	1.31	0.06	0.05	0.17	0.015	0.06	9.7	4.5	0.26	335	1.42	0.01
ZZ59081		0.94	16.2	1.10	1.25	0.05	0.04	0.14	0.013	0.06	8.4	3.9	0.15	186	2.83	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ58922		0.41	26.6	790	23.4	14.9	<0.001	0.03	0.59	1.9	0.7	0.6	10.6	<0.01	0.07	0.7
ZZ58923		0.25	20.3	420	25.5	16.9	<0.001	0.05	0.33	2.6	0.5	0.6	10.6	<0.01	0.06	2.3
ZZ58924		0.34	17.9	1480	122.5	12.5	<0.001	0.06	2.25	2.6	1.0	0.5	27.3	0.01	0.06	0.8
ZZ58925		0.26	22.8	970	114.0	15.2	<0.001	0.06	3.80	4.5	0.9	0.4	31.5	0.01	0.06	1.8
ZZ58926		0.18	38.9	310	40.8	11.4	<0.001	0.02	0.54	5.5	0.7	0.5	12.9	<0.01	0.08	4.2
ZZ58927		0.23	20.7	1140	102.0	12.7	<0.001	0.08	1.67	3.8	1.1	0.4	45.8	0.01	0.06	1.4
ZZ58928		0.31	35.0	660	97.1	10.6	<0.001	0.05	1.09	5.8	1.2	0.5	17.6	<0.01	0.09	1.9
ZZ58929		0.26	32.2	590	52.6	9.3	<0.001	0.05	0.96	5.7	1.1	0.4	20.5	<0.01	0.09	2.0
ZZ58930		0.35	24.2	510	96.8	10.3	<0.001	0.03	1.27	4.8	0.7	0.4	19.2	<0.01	0.07	2.8
ZZ58931		0.33	33.1	530	33.9	11.2	<0.001	0.05	0.75	7.1	1.1	0.4	23.1	<0.01	0.07	2.9
ZZ58932		0.36	24.0	470	32.4	17.3	<0.001	0.03	0.43	5.0	1.2	0.7	22.4	<0.01	0.04	3.6
ZZ58933		0.32	29.1	1110	24.5	15.1	<0.001	0.07	1.17	3.6	1.3	0.7	15.9	<0.01	0.06	1.4
ZZ58934		0.27	41.0	960	24.6	13.4	0.001	0.07	1.92	4.3	1.5	0.6	29.2	<0.01	0.06	1.9
ZZ58935		0.32	30.3	430	28.8	12.6	<0.001	0.03	0.43	7.4	0.9	0.7	20.8	<0.01	0.06	3.7
ZZ58936		0.41	28.1	380	18.3	12.6	<0.001	0.03	0.16	3.3	0.3	1.1	7.8	<0.01	0.04	4.8
ZZ58937		1.20	16.0	430	22.4	16.0	<0.001	0.02	0.82	2.7	0.6	1.0	7.0	<0.01	0.07	2.3
ZZ59058		0.56	26.2	1750	19.6	11.0	<0.001	0.11	0.85	1.4	1.3	0.4	29.0	0.01	0.05	0.3
ZZ59059		0.68	33.2	880	27.7	10.0	<0.001	0.07	1.25	3.3	1.5	0.5	22.8	<0.01	0.06	0.8
ZZ59060		0.56	29.8	1250	13.0	6.6	<0.001	0.12	0.80	1.4	1.6	0.4	22.3	0.01	0.06	0.2
ZZ59061		0.43	49.9	1110	23.5	7.8	0.001	0.10	1.26	2.2	2.0	0.4	33.7	<0.01	0.07	0.4
ZZ59062		0.39	46.6	1050	35.8	8.6	0.001	0.08	1.48	2.6	1.8	0.5	32.9	<0.01	0.06	0.5
ZZ59063		0.36	30.5	1240	14.7	5.3	0.001	0.11	0.96	1.4	2.0	0.3	35.4	<0.01	0.07	0.3
ZZ59064		0.44	37.7	1170	37.7	7.2	<0.001	0.11	1.42	1.8	1.5	0.4	26.4	<0.01	0.06	0.4
ZZ59065		0.47	68.9	1050	33.8	8.1	<0.001	0.08	1.46	2.4	1.6	0.4	26.7	<0.01	0.06	0.7
ZZ59066		0.44	44.0	760	38.9	8.5	<0.001	0.06	1.38	3.5	1.7	0.4	25.2	<0.01	0.06	1.0
ZZ59067		0.52	70.9	950	29.4	7.7	<0.001	0.08	1.46	2.6	1.6	0.4	30.8	<0.01	0.06	0.8
ZZ59068		0.28	79.9	1270	84.7	9.4	<0.001	0.20	4.37	3.2	3.6	0.5	62.5	<0.01	0.07	0.9
ZZ59069		0.39	60.7	1020	56.8	12.4	0.001	0.07	3.17	5.2	2.6	0.4	29.6	0.01	0.07	3.9
ZZ59070		0.44	24.4	1170	27.4	10.1	0.001	0.05	1.55	3.3	2.2	0.5	13.9	<0.01	0.07	1.3
ZZ59071		0.28	43.3	930	56.7	13.6	<0.001	0.03	2.85	3.3	2.2	0.4	15.9	<0.01	0.08	4.2
ZZ59072		0.16	35.9	800	78.9	14.3	<0.001	0.02	4.54	2.1	2.1	0.4	9.2	<0.01	0.08	0.8
ZZ59073		0.13	49.8	660	20.7	11.8	0.001	0.02	3.33	3.1	2.5	0.4	10.0	<0.01	0.07	1.6
ZZ59074		0.14	14.0	490	10.3	13.9	0.001	0.06	1.20	1.9	3.2	0.4	19.3	<0.01	0.06	1.3
ZZ59075		0.17	21.7	650	20.5	10.4	0.001	0.03	1.62	3.3	1.9	0.4	20.8	<0.01	0.07	2.7
ZZ59076		0.21	27.0	750	25.3	11.3	0.001	0.04	1.73	3.4	1.8	0.4	25.3	<0.01	0.07	2.3
ZZ59077		0.26	51.7	1090	72.0	8.2	0.005	0.08	2.83	3.2	4.6	0.4	55.7	<0.01	0.08	1.0
ZZ59078		0.29	64.3	940	73.6	7.6	0.002	0.06	4.10	3.5	4.0	0.5	46.4	<0.01	0.07	1.0
ZZ59079		0.22	47.5	590	135.0	7.3	0.001	0.08	3.72	3.0	3.1	0.3	52.1	<0.01	0.04	0.9
ZZ59080		0.18	25.2	670	8.8	6.1	0.001	0.11	1.01	1.4	1.8	0.2	41.0	<0.01	0.04	0.4
ZZ59081		0.17	30.5	780	6.1	5.7	0.001	0.11	0.96	1.0	1.8	0.2	42.7	<0.01	0.03	0.3

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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58922		0.008	1.67	1.00	47	0.17	4.38	81	0.6
ZZ58923		<0.005	0.34	0.57	35	0.06	3.06	91	0.5
ZZ58924		0.009	0.39	2.67	34	0.16	12.80	344	0.8
ZZ58925		<0.005	0.86	2.59	30	0.10	14.75	311	2.4
ZZ58926		<0.005	0.24	0.57	42	0.09	5.97	100	1.7
ZZ58927		<0.005	1.75	2.46	24	0.17	14.80	1060	1.8
ZZ58928		0.007	0.64	1.32	41	0.12	11.80	332	1.9
ZZ58929		0.005	0.66	1.30	35	0.09	10.95	286	2.2
ZZ58930		0.008	0.39	1.37	37	0.11	7.97	390	1.8
ZZ58931		0.009	0.74	1.58	37	0.08	12.20	301	2.2
ZZ58932		0.005	0.37	1.47	33	0.07	9.58	196	2.1
ZZ58933		<0.005	0.30	2.19	74	0.09	12.05	186	1.7
ZZ58934		<0.005	0.29	1.57	66	0.07	14.60	244	2.5
ZZ58935		0.005	0.23	0.83	32	0.08	13.45	137	2.2
ZZ58936		0.006	0.09	0.43	28	<0.05	2.64	82	1.7
ZZ58937		0.030	0.15	0.54	69	0.21	3.16	80	<0.5
ZZ59058		0.015	0.24	3.95	60	0.27	18.95	192	0.6
ZZ59059		0.013	0.31	2.33	75	0.38	13.80	189	1.1
ZZ59060		0.013	0.21	8.16	63	0.23	19.00	130	0.6
ZZ59061		0.007	0.52	4.38	63	0.47	20.3	218	1.3
ZZ59062		0.009	0.31	2.14	81	0.49	26.9	247	0.9
ZZ59063		0.010	0.18	2.83	48	0.27	19.00	167	0.9
ZZ59064		0.011	0.26	1.23	54	0.48	13.80	265	0.9
ZZ59065		0.008	0.42	3.92	63	0.97	15.90	387	1.5
ZZ59066		0.010	0.31	1.76	64	0.46	17.45	298	1.1
ZZ59067		0.011	0.38	1.78	58	0.53	15.45	502	1.3
ZZ59068		0.005	1.02	2.92	98	0.74	16.40	621	1.7
ZZ59069		0.009	1.08	2.08	58	0.38	25.0	321	1.3
ZZ59070		0.007	0.49	13.90	80	0.30	15.80	129	1.6
ZZ59071		<0.005	0.73	0.95	61	0.19	4.58	306	1.4
ZZ59072		<0.005	0.75	0.52	64	0.19	2.23	423	<0.5
ZZ59073		<0.005	0.52	0.96	40	0.06	5.17	332	<0.5
ZZ59074		<0.005	0.59	0.69	25	0.10	4.23	67	0.5
ZZ59075		<0.005	0.30	1.15	44	0.11	8.64	177	0.8
ZZ59076		<0.005	0.41	1.25	52	0.13	8.16	201	1.4
ZZ59077		0.005	0.85	2.07	109	0.16	17.20	408	1.6
ZZ59078		0.005	1.05	2.50	152	0.21	22.7	764	1.3
ZZ59079		<0.005	1.06	1.38	73	0.18	20.5	809	1.2
ZZ59080		<0.005	0.35	3.91	30	0.06	11.65	124	1.2
ZZ59081		<0.005	0.41	2.46	38	0.07	10.85	248	1.0



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59082		0.26	0.014	0.41	0.64	101.0	<0.2	<10	280	0.56	0.12	2.98	3.47	13.45	6.1	13
ZZ59083		0.33	0.003	0.55	0.77	94.8	<0.2	<10	260	0.70	0.19	1.51	4.52	25.4	9.5	15
ZZ59084		0.26	0.006	1.04	0.59	98.1	<0.2	<10	370	0.61	0.12	2.78	14.50	16.50	5.1	25
ZZ59085		0.35	0.004	0.43	1.23	20.0	<0.2	<10	490	0.90	0.23	1.36	1.46	13.15	10.1	20
ZZ59086		0.34	0.013	2.89	0.78	33.5	<0.2	<10	460	1.07	0.22	4.06	12.45	24.6	8.8	53
ZZ59087		0.34	0.014	0.72	1.21	28.3	<0.2	<10	480	0.94	0.22	1.80	2.02	18.30	9.5	33
ZZ59088		0.38	0.002	0.08	1.25	30.2	<0.2	<10	280	0.47	0.28	0.81	0.67	14.75	11.8	23
ZZ59089		0.27	0.002	0.12	2.00	50.2	<0.2	<10	230	0.71	0.29	0.25	0.33	22.9	15.4	28
ZZ59090		0.23	0.004	0.31	2.20	43.6	<0.2	<10	260	1.23	0.27	0.64	2.43	42.3	17.6	35
ZZ59091		0.29	0.014	1.70	0.57	42.3	<0.2	<10	200	1.05	0.20	8.94	17.80	21.8	6.5	32
ZZ59092		0.24	0.010	1.59	0.52	38.8	<0.2	<10	270	1.02	0.16	5.11	19.35	18.30	5.7	32
ZZ59093		0.35	0.006	0.52	0.91	29.9	<0.2	10	880	1.06	0.21	2.76	2.91	19.70	9.5	21
ZZ59094		0.33	0.005	0.10	1.60	26.6	<0.2	<10	240	1.35	0.36	0.61	0.17	15.45	14.8	27
ZZ59095		0.30	0.006	0.23	1.07	60.6	<0.2	<10	310	0.90	0.23	1.47	0.82	13.60	9.5	18
ZZ59096		0.35	0.003	0.04	1.69	19.5	<0.2	<10	80	0.97	0.40	0.04	0.19	17.90	14.4	25
ZZ59097		0.39	0.003	0.06	1.73	18.9	<0.2	<10	400	1.12	0.36	0.27	0.15	17.95	9.9	24
ZZ59098		0.26	0.001	0.01	1.93	13.1	<0.2	<10	110	0.66	0.35	0.04	0.15	19.25	10.7	26
ZZ59099		0.26	0.002	0.04	1.45	20.6	<0.2	<10	120	0.35	0.29	0.05	0.12	17.00	5.2	21
ZZ59100		0.26	0.002	0.03	1.81	13.7	<0.2	<10	100	0.68	0.35	0.06	0.18	24.0	7.0	28
ZZ59101		0.30	0.004	0.07	1.77	14.6	<0.2	<10	350	1.10	0.32	0.46	0.11	25.2	10.8	29
ZZ59102		0.34	0.003	0.02	1.66	6.0	<0.2	<10	160	0.76	0.45	0.08	0.11	14.60	13.2	25
ZZ59103		0.30	0.003	0.07	1.42	20.0	<0.2	<10	100	0.81	0.36	0.25	0.21	17.50	12.5	22
ZZ59104		0.31	0.005	1.64	0.71	34.6	<0.2	<10	430	1.39	0.26	3.84	8.47	25.3	8.7	27
ZZ59105		0.30	0.007	0.48	1.23	91.3	<0.2	<10	310	1.15	0.24	2.91	6.11	22.4	10.0	45
ZZ59106		0.22	0.013	0.30	1.60	110.5	<0.2	<10	740	1.09	0.25	1.78	2.89	16.45	10.5	35
ZZ59107		0.34	0.005	0.50	1.19	116.5	<0.2	<10	450	1.17	0.22	1.86	11.55	31.1	11.8	39
ZZ59108		0.34	0.002	0.08	1.57	38.2	<0.2	<10	230	0.91	0.28	0.21	0.57	27.0	9.5	20
ZZ59109		0.25	0.007	0.04	1.50	73.2	<0.2	<10	240	0.37	0.36	0.20	0.45	20.1	8.1	21
ZZ59110		0.24	0.005	0.56	1.92	125.0	<0.2	<10	410	1.29	0.29	0.97	2.10	29.1	15.5	31
ZZ59111		0.21	0.021	0.20	1.66	134.5	<0.2	<10	550	0.68	0.29	0.96	1.41	14.90	7.6	33
ZZ59112		0.32	0.003	0.25	1.76	301	<0.2	<10	250	0.84	0.28	0.21	1.31	26.3	10.7	33
ZZ59113		0.33	0.015	1.09	0.72	400	<0.2	<10	300	1.08	0.19	5.08	15.75	30.0	8.5	39
ZZ59114		0.26	0.006	1.32	0.89	475	<0.2	<10	370	1.14	0.19	2.44	12.55	20.6	8.5	28
ZZ59115		0.30	0.008	2.18	1.57	580	<0.2	<10	350	1.51	0.25	1.99	18.15	57.4	9.8	78
ZZ59116		0.34	0.008	2.09	0.74	744	<0.2	<10	440	1.10	0.18	9.70	30.2	34.4	15.7	63
ZZ59117		0.27	0.012	1.48	0.89	304	<0.2	<10	630	1.01	0.17	4.40	16.85	26.3	6.7	43
ZZ59118		0.30	0.007	0.82	0.59	663	<0.2	<10	440	0.85	0.24	0.56	4.76	13.40	8.7	14
ZZ59119		0.30	0.009	0.92	1.01	195.5	<0.2	<10	440	0.96	0.23	1.06	2.58	18.00	8.9	19
ZZ59120		0.23	0.015	1.02	1.08	279	<0.2	<10	570	1.04	0.23	1.28	3.30	18.70	8.4	21
ZZ59121		0.25	0.022	1.26	1.28	519	<0.2	<10	820	1.12	0.22	1.42	3.35	17.10	7.8	29



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ59082		0.88	21.2	1.66	1.84	0.06	0.05	0.21	0.018	0.07	8.7	7.8	0.28	454	3.81	0.01
ZZ59083		1.63	20.7	3.06	2.73	0.10	0.05	0.10	0.028	0.07	14.8	7.4	0.17	322	18.40	0.01
ZZ59084		1.51	44.4	1.63	2.12	0.10	0.07	0.33	0.020	0.05	12.7	5.9	0.17	254	19.60	0.01
ZZ59085		1.38	34.4	2.78	3.78	0.09	0.07	0.18	0.028	0.09	6.1	20.1	0.34	590	5.49	0.01
ZZ59086		3.60	110.5	2.66	3.03	0.18	0.10	0.53	0.030	0.13	21.1	13.4	0.89	283	28.4	0.01
ZZ59087		0.85	47.6	2.64	3.73	0.10	0.06	0.20	0.025	0.07	14.3	20.5	0.39	407	3.62	0.01
ZZ59088		1.26	32.1	4.02	5.02	0.08	0.04	0.06	0.026	0.08	6.0	28.1	0.42	574	3.73	0.01
ZZ59089		1.38	41.3	4.97	6.28	0.10	0.06	0.17	0.033	0.09	9.3	30.5	0.57	748	1.97	0.01
ZZ59090		1.24	64.6	4.51	5.05	0.14	0.10	0.25	0.030	0.09	18.6	24.7	0.64	1140	13.95	0.01
ZZ59091		1.35	127.5	2.06	3.06	0.15	0.08	0.56	0.025	0.10	15.2	9.7	2.32	182	110.5	0.02
ZZ59092		1.10	105.0	1.93	2.29	0.13	0.07	0.46	0.024	0.09	13.4	7.0	1.40	120	69.6	0.02
ZZ59093		1.30	43.3	2.95	2.84	0.11	0.08	0.17	0.029	0.12	11.9	16.6	0.88	267	9.35	0.02
ZZ59094		1.96	49.2	4.71	5.31	0.11	0.09	0.08	0.035	0.10	6.0	34.3	0.52	814	0.91	0.01
ZZ59095		0.95	31.5	3.50	3.36	<0.05	0.07	0.39	0.028	0.09	6.7	13.9	0.41	722	0.90	0.01
ZZ59096		1.46	27.8	5.06	6.60	<0.05	0.06	0.04	0.045	0.10	6.9	26.0	0.28	900	1.09	0.01
ZZ59097		1.60	18.8	3.88	5.66	<0.05	0.06	0.07	0.036	0.10	7.7	21.0	0.33	522	0.79	0.01
ZZ59098		1.43	36.2	4.76	6.35	<0.05	0.05	0.06	0.036	0.09	8.5	29.7	0.44	406	0.91	0.01
ZZ59099		1.72	15.9	3.16	5.98	<0.05	<0.02	0.05	0.026	0.06	8.2	13.9	0.24	169	1.19	0.01
ZZ59100		1.61	14.9	4.08	7.04	0.05	0.03	0.03	0.033	0.07	11.7	21.6	0.31	335	1.72	0.01
ZZ59101		1.45	28.8	3.50	5.14	<0.05	0.06	0.08	0.036	0.06	11.1	22.2	0.49	570	1.04	0.01
ZZ59102		2.92	19.1	3.49	6.06	<0.05	0.03	0.02	0.026	0.11	6.9	33.6	0.40	313	1.18	0.01
ZZ59103		1.58	28.5	4.49	5.47	<0.05	0.03	0.05	0.036	0.10	6.7	21.3	0.31	688	1.23	0.01
ZZ59104		1.11	87.6	2.57	2.92	0.09	0.06	0.40	0.038	0.11	17.4	8.7	1.36	129	43.6	0.02
ZZ59105		1.29	71.1	3.03	3.74	0.09	0.09	0.29	0.031	0.11	17.7	15.7	0.99	249	10.75	0.01
ZZ59106		1.62	49.0	2.88	4.63	0.08	0.08	0.22	0.034	0.10	11.5	14.9	0.38	394	7.78	0.01
ZZ59107		1.07	48.2	3.27	3.42	0.10	0.06	0.30	0.033	0.08	30.4	13.6	0.40	510	7.16	0.01
ZZ59108		2.27	22.9	3.40	5.42	<0.05	0.03	0.05	0.036	0.09	10.1	18.0	0.23	363	4.66	0.01
ZZ59109		2.25	17.5	3.58	7.55	<0.05	<0.02	0.02	0.029	0.08	9.0	8.8	0.21	273	5.34	0.01
ZZ59110		1.85	44.2	3.85	5.66	0.07	0.07	0.18	0.044	0.08	19.0	19.3	0.45	799	6.70	0.01
ZZ59111		2.92	23.9	2.95	6.02	<0.05	0.07	0.10	0.036	0.07	9.7	10.3	0.21	525	6.61	0.01
ZZ59112		2.01	30.2	3.91	5.07	0.05	0.04	0.12	0.035	0.07	13.7	16.5	0.30	440	10.70	0.01
ZZ59113		4.28	46.8	2.30	2.80	0.12	0.06	1.28	0.034	0.13	25.9	6.4	1.74	261	44.6	0.02
ZZ59114		2.01	45.9	2.74	2.81	0.10	0.05	0.94	0.028	0.09	19.9	8.5	0.37	299	16.45	0.01
ZZ59115		1.35	33.3	3.14	4.55	0.15	0.03	7.18	0.038	0.05	59.7	11.9	0.24	559	12.45	0.01
ZZ59116		3.85	84.7	2.56	3.37	0.16	0.04	2.09	0.026	0.12	39.1	7.0	0.90	292	35.7	0.02
ZZ59117		1.92	61.0	1.88	2.96	0.10	0.05	1.32	0.024	0.07	32.7	7.8	0.38	307	12.45	0.01
ZZ59118		7.23	57.3	2.86	1.91	0.05	0.04	0.45	0.037	0.10	6.2	3.1	0.09	289	9.31	0.01
ZZ59119		5.05	41.0	2.44	3.01	<0.05	0.06	0.76	0.030	0.08	9.5	9.6	0.26	417	2.68	0.01
ZZ59120		2.18	41.2	2.61	3.11	0.06	0.06	1.27	0.030	0.08	10.5	9.9	0.26	387	2.49	0.01
ZZ59121		2.54	38.7	2.83	3.74	0.06	0.07	1.27	0.038	0.08	10.7	9.5	0.26	398	3.64	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ59082	0.05	0.26	42.3	1030	10.5	5.3	0.001	0.11	1.46	1.7	2.4	0.2	43.3	<0.01	0.04	0.5
ZZ59083	0.05	0.34	81.4	530	17.0	7.1	0.002	0.07	3.99	3.3	3.3	0.4	46.9	<0.01	0.06	1.5
ZZ59084	0.05	0.19	96.0	1820	8.2	4.2	0.003	0.18	6.86	1.3	7.3	0.4	62.8	<0.01	0.09	0.4
ZZ59085	0.05	0.27	43.6	650	15.8	9.0	0.004	0.07	2.62	3.9	3.0	0.5	38.3	<0.01	0.07	1.1
ZZ59086	0.05	0.21	198.0	1730	17.7	9.6	0.004	0.08	8.89	5.8	12.8	0.6	84.2	0.01	0.14	2.7
ZZ59087	0.05	0.31	54.1	1130	15.3	6.8	0.004	0.08	2.09	3.5	3.2	0.4	42.6	<0.01	0.06	0.9
ZZ59088	0.05	0.42	22.2	400	22.8	10.4	0.002	0.03	2.27	3.0	1.5	0.5	25.9	<0.01	0.06	2.2
ZZ59089	0.05	0.25	29.1	390	37.8	10.0	<0.001	0.01	0.70	4.6	0.6	0.5	13.1	<0.01	0.07	3.1
ZZ59090	0.05	0.45	56.3	650	31.0	8.7	0.001	0.02	3.33	6.7	2.2	0.4	20.8	0.01	0.08	4.6
ZZ59091	0.05	0.24	216	900	17.5	7.9	0.010	0.10	24.5	3.8	10.9	0.6	168.5	0.01	0.13	1.5
ZZ59092	0.05	0.22	196.5	1040	13.1	6.6	0.009	0.13	15.85	2.6	8.6	0.5	96.4	0.01	0.11	0.6
ZZ59093	0.05	0.30	56.3	1210	16.8	8.8	0.008	0.12	3.32	4.6	4.1	0.4	79.2	<0.01	0.06	1.9
ZZ59094	0.05	0.38	29.2	570	30.4	11.5	<0.001	0.03	0.51	6.4	0.7	0.6	21.1	<0.01	0.06	3.7
ZZ59095	0.05	0.29	20.1	990	51.5	12.4	<0.001	0.10	0.77	3.3	1.1	0.4	51.3	<0.01	0.02	0.9
ZZ59096	0.05	0.41	19.7	350	30.8	19.0	0.001	0.01	0.47	4.0	0.4	0.7	7.6	<0.01	0.03	4.0
ZZ59097	0.05	0.35	19.5	720	24.7	20.6	0.001	0.03	0.33	4.4	0.8	0.8	16.6	<0.01	0.04	2.7
ZZ59098	0.05	0.30	22.0	640	18.5	11.0	<0.001	0.02	0.44	3.6	0.3	0.6	6.8	<0.01	0.05	2.2
ZZ59099	0.05	0.58	11.9	940	19.1	12.4	<0.001	0.03	0.46	1.7	<0.2	0.6	7.6	<0.01	0.03	0.8
ZZ59100	0.05	1.25	16.4	350	18.9	14.3	<0.001	0.01	0.75	3.0	0.7	0.8	8.4	<0.01	0.03	3.8
ZZ59101	0.05	0.52	26.0	780	17.7	12.7	<0.001	0.04	0.53	4.0	0.6	0.6	23.9	<0.01	0.03	2.1
ZZ59102	0.05	0.60	21.7	250	11.7	18.9	<0.001	0.01	0.41	3.3	<0.2	0.8	8.5	<0.01	0.04	3.4
ZZ59103	0.05	0.42	21.6	640	24.9	11.2	<0.001	0.03	0.55	3.0	0.4	0.6	14.0	<0.01	0.06	2.4
ZZ59104	0.05	0.16	126.5	1200	16.2	8.2	0.005	0.08	14.40	5.0	6.3	0.6	68.1	<0.01	0.08	1.8
ZZ59105	0.05	0.25	114.5	2150	17.7	8.6	0.001	0.08	5.18	4.0	4.9	0.5	46.8	<0.01	0.09	1.4
ZZ59106	0.05	0.36	86.2	1330	18.0	9.3	0.001	0.12	3.09	2.8	2.9	0.6	35.0	<0.01	0.07	0.8
ZZ59107	0.05	0.26	100.0	1680	17.8	8.1	0.001	0.08	2.54	3.2	8.0	0.5	44.7	<0.01	0.06	0.9
ZZ59108	0.05	0.35	26.5	700	20.2	14.5	<0.001	0.03	1.24	2.9	1.3	0.6	13.2	<0.01	0.03	1.8
ZZ59109	0.05	0.81	22.3	360	22.8	13.0	<0.001	0.02	1.30	2.4	0.7	0.9	14.2	<0.01	0.07	1.8
ZZ59110	0.05	0.39	63.4	1390	25.6	12.1	<0.001	0.08	2.08	4.4	1.9	0.5	26.5	<0.01	0.05	1.3
ZZ59111	0.05	0.44	43.9	2190	25.1	11.4	0.001	0.12	2.14	2.4	2.8	0.7	30.2	<0.01	0.03	0.7
ZZ59112	0.05	0.49	66.1	1140	42.4	11.2	0.001	0.03	3.36	3.4	3.1	0.6	22.3	<0.01	0.07	1.8
ZZ59113	0.05	0.19	151.0	2040	27.8	10.7	0.003	0.08	16.35	3.9	11.8	0.6	114.0	<0.01	0.10	1.5
ZZ59114	0.05	0.23	119.5	1120	42.5	8.3	0.001	0.09	7.17	2.6	7.9	0.5	49.1	<0.01	0.07	0.7
ZZ59115	0.05	0.40	93.5	1190	152.0	8.6	0.001	0.09	7.34	4.0	9.6	0.6	44.8	<0.01	0.09	0.7
ZZ59116	0.05	0.19	241	2010	73.5	9.8	0.003	0.07	21.9	4.2	15.9	0.5	155.0	<0.01	0.12	1.2
ZZ59117	0.05	0.27	136.5	1450	37.3	7.7	0.003	0.15	8.16	1.4	8.9	0.4	60.2	<0.01	0.09	0.3
ZZ59118	0.05	0.13	70.3	1110	46.5	12.8	0.001	0.08	5.56	3.1	4.7	0.5	64.9	<0.01	0.10	1.4
ZZ59119	0.05	0.39	40.4	1070	44.1	13.9	0.003	0.07	2.07	3.5	3.1	0.4	33.9	<0.01	0.05	1.6
ZZ59120	0.05	0.36	40.2	1120	70.4	10.0	0.001	0.07	2.27	3.2	3.0	0.4	40.4	<0.01	0.07	1.2
ZZ59121	0.05	0.31	54.6	1590	81.1	11.0	0.001	0.11	2.94	3.0	3.5	0.5	55.4	<0.01	0.03	0.9

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59082		0.006	0.36	2.35	58	0.08	12.25	485	1.3
ZZ59083		0.007	0.78	1.68	135	0.14	16.95	768	1.2
ZZ59084		<0.005	0.75	8.28	216	0.20	26.8	670	1.9
ZZ59085		<0.005	0.34	2.56	113	0.09	11.80	176	1.8
ZZ59086		<0.005	0.45	4.54	396	0.25	41.2	993	2.8
ZZ59087		0.005	0.21	2.33	129	0.11	21.1	235	1.6
ZZ59088		0.007	0.17	0.55	53	0.10	3.10	132	1.5
ZZ59089		<0.005	0.34	0.64	64	0.08	4.73	169	1.8
ZZ59090		0.010	0.43	2.75	159	0.18	18.60	343	2.7
ZZ59091		0.005	1.54	10.55	716	0.27	36.1	1960	2.5
ZZ59092		<0.005	1.04	8.40	524	0.22	35.3	1480	2.3
ZZ59093		0.005	0.32	2.88	118	0.10	17.50	339	2.5
ZZ59094		0.006	0.18	0.94	34	0.13	9.90	120	2.2
ZZ59095		0.008	0.34	1.72	28	0.14	8.34	336	1.6
ZZ59096		0.006	0.17	0.60	43	0.09	4.46	88	1.8
ZZ59097		0.005	0.24	1.22	36	0.08	6.09	107	1.3
ZZ59098		0.005	0.10	0.56	49	0.07	3.35	75	1.2
ZZ59099		0.011	0.26	0.59	49	0.18	2.10	53	<0.5
ZZ59100		0.028	0.14	0.71	62	0.23	3.37	76	1.2
ZZ59101		0.012	0.13	1.33	41	0.15	8.92	80	1.6
ZZ59102		0.011	0.12	0.47	36	0.15	3.21	59	1.0
ZZ59103		0.007	0.11	0.61	38	0.09	3.47	89	0.8
ZZ59104		<0.005	0.70	6.11	397	0.13	32.6	853	2.3
ZZ59105		0.006	0.53	3.96	228	0.15	27.2	748	2.4
ZZ59106		0.005	0.76	3.92	260	0.13	17.85	600	2.4
ZZ59107		0.006	0.33	2.53	198	0.19	42.7	1070	1.9
ZZ59108		0.006	0.28	1.08	74	0.13	6.70	136	0.9
ZZ59109		0.020	0.32	0.65	94	0.18	2.76	117	<0.5
ZZ59110		0.010	0.43	3.98	168	0.16	24.8	251	1.9
ZZ59111		0.009	1.08	4.55	301	0.26	9.31	216	1.4
ZZ59112		0.010	0.90	2.78	240	0.22	14.70	378	1.2
ZZ59113		0.006	2.47	10.70	468	0.31	42.3	1400	2.0
ZZ59114		0.005	1.99	3.50	305	0.24	36.5	917	1.7
ZZ59115		0.007	1.55	3.93	279	0.33	67.2	675	1.0
ZZ59116		0.007	4.38	8.08	992	0.53	69.1	1800	1.3
ZZ59117		0.006	2.86	4.67	448	0.34	45.4	959	1.2
ZZ59118		<0.005	1.42	2.81	131	0.13	15.30	555	1.0
ZZ59119		0.008	0.52	2.72	69	0.16	15.75	299	1.5
ZZ59120		0.007	0.55	2.74	82	0.27	17.00	371	1.6
ZZ59121		0.007	0.83	4.70	117	0.34	23.2	407	2.2





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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59122		0.27	0.031	0.57	0.89	955	<0.2	<10	420	0.93	0.19	2.08	1.50	11.15	6.9	15
ZZ59123		0.23	0.030	0.69	0.83	1215	<0.2	10	420	1.05	0.23	1.94	2.11	9.55	7.1	16
ZZ59124		0.24	0.010	0.48	1.45	541	<0.2	<10	290	1.18	0.22	2.16	4.14	18.15	10.4	25
ZZ59125		0.23	0.020	0.46	1.27	631	<0.2	<10	260	1.14	0.21	1.85	4.85	16.10	10.5	23
ZZ59126		0.25	0.049	0.30	1.23	207	<0.2	<10	180	0.69	0.21	2.11	2.29	16.85	7.7	20
ZZ59127		0.27	0.009	0.57	1.53	400	<0.2	<10	180	1.37	0.27	2.20	8.01	29.5	12.7	30
ZZ59128		0.26	0.006	0.18	1.32	157.0	<0.2	<10	180	0.84	0.23	2.23	2.03	24.8	10.2	23
ZZ59129		0.31	0.016	0.50	1.33	310	<0.2	<10	200	0.86	0.20	3.89	2.27	27.4	9.4	26
ZZ59130		0.30	0.005	0.35	1.77	270	<0.2	<10	470	1.70	0.25	0.96	2.42	25.9	9.6	30
ZZ59131		0.22	0.012	0.24	1.36	176.0	<0.2	<10	210	0.65	0.19	1.82	3.66	17.50	7.7	21
ZZ59132		0.27	0.009	0.55	1.35	142.0	<0.2	<10	340	0.73	0.20	1.07	0.98	23.6	8.8	26
ZZ59133		0.27	0.007	0.79	1.27	103.5	<0.2	<10	1330	0.76	0.19	1.69	0.64	16.15	5.3	25
ZZ59134		0.19	0.007	3.20	0.47	23.9	<0.2	10	1210	0.54	0.12	2.79	6.39	5.01	2.8	33
ZZ59135		0.27	0.008	3.26	0.42	31.6	<0.2	10	990	0.57	0.15	1.88	1.84	6.05	4.8	33
ZZ59136		0.25	0.028	4.49	0.40	37.7	<0.2	10	1060	0.60	0.17	1.87	2.68	7.07	5.2	38
ZZ59137		0.29	0.009	2.59	0.59	18.9	<0.2	10	850	0.73	0.20	1.13	1.11	7.91	8.5	26
ZZ59138		0.21	0.011	1.81	0.65	32.5	<0.2	10	1270	0.56	0.12	2.78	0.59	3.28	2.8	20
ZZ59139		0.25	0.007	1.28	0.64	26.4	<0.2	<10	930	0.50	0.17	1.55	1.19	7.50	4.8	33
ZZ59140		0.22	0.004	3.04	0.58	18.9	<0.2	<10	860	0.53	0.12	2.28	1.54	13.70	4.4	29
ZZ59141		0.23	0.008	2.31	0.73	44.1	<0.2	<10	1470	0.76	0.17	1.54	1.12	11.45	4.7	36
ZZ59142		0.31	0.013	2.05	0.71	33.0	<0.2	<10	1670	0.72	0.18	1.28	1.34	9.40	4.4	35
ZZ59143		0.27	0.015	4.24	0.77	49.7	<0.2	10	3650	0.84	0.19	1.49	3.62	10.60	4.4	55
ZZ59144		0.30	0.011	0.40	1.35	83.6	<0.2	<10	760	0.56	0.25	0.69	1.23	17.65	6.3	28
ZZ59145		0.28	0.004	0.40	1.82	161.0	<0.2	<10	300	0.80	0.23	0.61	4.34	28.8	7.8	30
ZZ59146		0.27	0.011	0.53	1.42	365	<0.2	<10	340	0.99	0.23	1.48	3.84	28.4	10.9	27
ZZ59147		0.25	0.012	0.62	0.94	1885	<0.2	<10	420	1.14	0.14	4.42	11.70	11.80	16.6	18
ZZ59148		0.26	0.009	0.61	1.26	418	<0.2	<10	630	0.88	0.19	1.87	3.92	18.20	7.7	26
ZZ59149		0.34	0.010	1.09	1.35	268	<0.2	<10	630	1.03	0.22	1.19	1.66	22.9	7.7	25
ZZ59150		0.25	0.051	0.57	0.69	311	<0.2	<10	420	0.66	0.10	8.15	3.13	6.34	3.5	9
ZZ59151		0.28	0.006	0.55	0.32	503	<0.2	<10	130	0.71	0.24	0.45	1.48	6.18	7.7	9
ZZ59152		0.35	0.011	0.94	0.69	216	<0.2	<10	470	1.07	0.21	1.26	2.85	15.65	8.3	12
ZZ59153		0.29	0.008	0.76	0.69	188.0	<0.2	<10	500	0.65	0.16	2.57	2.52	14.30	7.3	12
ZZ59154		0.27	0.026	1.28	0.84	231	<0.2	<10	480	1.00	0.18	1.63	2.57	13.45	5.3	14
ZZ59155		0.27	0.012	1.40	1.32	1855	<0.2	<10	650	1.30	0.21	0.55	9.10	22.5	8.1	24
ZZ59156		0.22	0.011	1.38	0.81	604	<0.2	<10	730	0.75	0.14	3.13	8.56	10.90	5.6	16
ZZ59157		0.28	0.011	1.66	0.95	881	<0.2	<10	660	0.96	0.17	2.00	9.28	18.05	6.9	22
ZZ59158		0.25	0.025	1.12	0.64	446	<0.2	<10	730	0.67	0.12	3.67	10.65	15.25	4.6	19
ZZ59159		0.25	0.013	1.58	0.99	1055	<0.2	<10	320	1.15	0.20	1.98	11.00	23.1	11.0	31
ZZ59160		0.21	0.005	0.90	1.12	575	<0.2	<10	420	1.12	0.16	2.54	7.25	19.10	7.9	18
ZZ59161		0.23	0.003	0.20	0.88	403	<0.2	<10	200	0.55	0.27	0.15	1.19	13.60	7.3	18



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59122		1.45	27.4	2.44	2.85	<0.05	0.07	1.45	0.023	0.07	6.3	6.3	0.16	245	2.49	0.01
ZZ59123		1.82	32.7	2.75	3.29	0.05	0.07	2.39	0.038	0.10	5.4	5.3	0.17	178	3.59	0.01
ZZ59124		2.21	25.8	3.01	4.60	<0.05	0.03	0.44	0.032	0.08	12.8	9.7	0.29	501	2.75	0.01
ZZ59125		2.06	27.2	2.90	3.49	0.05	0.03	0.50	0.022	0.07	10.1	9.8	0.29	482	3.25	0.01
ZZ59126		1.03	18.3	2.37	3.43	<0.05	0.04	0.28	0.023	0.05	8.8	8.8	0.32	446	1.53	0.02
ZZ59127		1.55	24.0	3.21	4.12	0.07	0.02	0.37	0.031	0.06	14.7	11.0	0.51	663	2.66	0.02
ZZ59128		1.02	15.7	2.62	3.69	<0.05	0.02	0.31	0.022	0.05	9.4	8.4	0.26	713	1.99	0.01
ZZ59129		1.16	22.1	2.82	3.49	0.08	0.02	0.91	0.025	0.06	17.2	10.5	0.39	562	3.16	0.02
ZZ59130		1.90	20.2	3.22	5.18	0.06	0.04	0.28	0.034	0.06	13.1	12.3	0.39	623	2.76	0.01
ZZ59131		1.51	17.6	2.32	3.77	<0.05	0.03	0.17	0.022	0.05	8.5	9.5	0.28	531	2.41	0.01
ZZ59132		1.43	23.8	2.69	3.97	0.05	0.04	1.66	0.025	0.05	11.7	10.7	0.35	276	2.36	0.01
ZZ59133		1.76	26.6	2.19	3.52	<0.05	0.06	0.37	0.027	0.05	8.5	9.0	0.22	146	3.07	0.01
ZZ59134		0.54	38.8	1.81	1.37	0.06	0.08	0.20	0.022	0.04	4.3	2.1	0.06	65	8.14	0.01
ZZ59135		0.53	41.5	2.65	1.29	0.07	0.04	0.23	0.028	0.07	4.8	1.9	0.05	105	9.19	0.01
ZZ59136		0.98	55.4	2.87	1.35	0.07	0.03	0.25	0.031	0.09	6.1	1.9	0.09	87	9.51	0.01
ZZ59137		2.15	70.2	2.31	1.63	0.06	0.04	0.23	0.037	0.09	5.3	3.4	0.11	142	3.76	0.01
ZZ59138		0.75	31.5	1.47	1.68	<0.05	0.09	0.17	0.022	0.04	3.0	3.0	0.06	68	4.71	0.01
ZZ59139		0.52	23.9	2.22	1.96	0.05	0.03	0.15	0.030	0.05	4.5	4.1	0.06	112	8.57	0.01
ZZ59140		0.73	19.2	1.70	1.42	<0.05	0.03	0.18	0.019	0.03	6.1	2.4	0.06	205	4.58	0.01
ZZ59141		0.76	31.5	2.36	2.19	<0.05	0.04	0.18	0.027	0.06	7.4	4.7	0.09	138	6.46	0.02
ZZ59142		0.67	34.6	2.41	2.07	0.05	0.05	0.20	0.027	0.06	6.7	4.1	0.08	122	5.65	0.01
ZZ59143		0.69	50.9	2.46	2.42	0.07	0.05	0.25	0.032	0.06	8.3	4.7	0.11	113	11.65	0.02
ZZ59144		3.55	18.3	2.62	4.64	<0.05	0.02	0.17	0.030	0.10	8.2	10.9	0.30	278	4.83	0.01
ZZ59145		2.05	17.2	2.89	5.42	<0.05	0.03	0.15	0.028	0.05	13.1	13.1	0.29	322	3.15	0.01
ZZ59146		1.32	27.3	3.02	4.15	<0.05	0.03	0.29	0.027	0.07	16.9	13.3	0.44	460	3.29	0.01
ZZ59147		2.27	23.0	3.63	2.18	0.06	0.02	0.39	0.019	0.06	8.5	6.0	0.18	567	5.44	0.02
ZZ59148		1.72	23.3	2.51	3.65	<0.05	0.04	0.33	0.026	0.05	10.6	9.0	0.25	654	2.89	0.02
ZZ59149		1.80	26.2	2.90	4.05	<0.05	0.06	2.30	0.028	0.06	11.7	11.7	0.38	436	2.80	0.01
ZZ59150		1.03	15.2	1.12	1.25	<0.05	0.04	0.33	0.012	0.04	3.6	3.8	3.61	377	1.15	0.02
ZZ59151		10.60	52.0	3.01	1.40	<0.05	0.02	0.23	0.036	0.11	2.6	0.9	0.07	83	4.99	0.01
ZZ59152		3.98	53.9	2.38	2.23	0.05	0.04	1.18	0.032	0.10	7.9	6.3	0.17	267	2.69	0.01
ZZ59153		2.04	28.4	1.82	2.00	<0.05	0.05	1.41	0.023	0.07	7.0	6.3	0.18	575	1.99	0.01
ZZ59154		2.63	38.1	2.04	2.42	<0.05	0.07	1.03	0.029	0.07	7.8	6.5	0.20	224	1.88	0.01
ZZ59155		4.44	52.1	2.85	2.92	0.05	0.07	0.99	0.029	0.09	12.7	7.3	0.16	200	7.39	0.01
ZZ59156		1.62	44.5	1.85	2.02	<0.05	0.05	2.76	0.019	0.07	7.0	6.2	0.38	197	4.31	0.02
ZZ59157		1.96	59.3	2.14	2.41	0.06	0.06	1.80	0.030	0.08	11.9	7.4	0.31	128	7.08	0.01
ZZ59158		1.23	35.9	1.43	1.88	0.06	0.05	1.27	0.016	0.06	16.7	4.2	0.17	146	8.90	0.01
ZZ59159		1.38	38.6	3.12	2.90	0.07	0.06	3.59	0.027	0.10	16.6	8.8	0.45	268	20.2	0.01
ZZ59160		1.10	33.1	2.47	2.71	0.05	0.07	0.63	0.025	0.06	13.4	7.2	0.17	352	7.33	0.01
ZZ59161		1.92	29.8	3.51	4.03	<0.05	<0.02	0.08	0.028	0.09	5.5	3.4	0.08	324	7.32	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ59122	0.28	57.6	1060	40.8	7.4	<0.001	0.11	2.88	1.5	2.7	0.4	26.6	0.01	0.05	0.6	
ZZ59123	0.20	84.3	1080	46.0	8.9	<0.001	0.12	4.07	2.0	2.5	0.5	28.8	<0.01	0.03	0.9	
ZZ59124	0.38	69.0	1290	43.8	9.2	<0.001	0.13	1.83	1.4	1.6	0.5	30.6	<0.01	0.02	0.3	
ZZ59125	0.34	96.2	1140	37.7	8.7	<0.001	0.13	1.95	1.4	2.4	0.4	27.5	<0.01	0.02	0.4	
ZZ59126	0.56	40.6	1180	22.1	6.8	<0.001	0.13	1.01	1.3	1.1	0.3	23.0	<0.01	0.03	0.5	
ZZ59127	0.51	80.9	1270	46.0	8.6	<0.001	0.10	1.89	1.9	2.9	0.5	28.2	<0.01	0.05	0.5	
ZZ59128	0.51	28.8	1280	25.5	6.1	<0.001	0.16	1.15	1.1	2.7	0.4	18.4	<0.01	0.01	0.4	
ZZ59129	0.50	60.6	1400	44.5	8.6	0.001	0.07	1.77	2.1	2.9	0.4	53.6	<0.01	0.04	0.7	
ZZ59130	0.67	47.7	590	31.5	11.1	<0.001	0.04	1.45	4.2	1.3	0.6	19.6	<0.01	0.03	1.4	
ZZ59131	0.49	34.0	990	16.1	14.5	0.001	0.11	1.06	1.4	1.0	0.5	25.3	<0.01	0.04	0.4	
ZZ59132	0.56	45.2	840	18.7	7.9	0.001	0.04	1.18	3.3	1.3	0.5	31.7	<0.01	0.05	1.3	
ZZ59133	0.42	41.8	1080	16.5	6.5	0.003	0.11	2.24	2.3	2.5	0.5	37.2	<0.01	0.09	0.8	
ZZ59134	0.07	66.2	1740	7.2	4.4	0.009	0.19	2.24	2.2	10.6	0.4	222	<0.01	0.09	0.5	
ZZ59135	0.06	83.9	1840	9.6	4.1	0.008	0.15	2.19	3.2	10.1	0.4	189.5	<0.01	0.07	0.5	
ZZ59136	0.05	99.3	2120	10.3	6.5	0.007	0.12	2.64	4.9	10.0	0.5	236	<0.01	0.12	1.0	
ZZ59137	0.15	107.5	1360	9.9	9.0	0.003	0.10	1.28	5.1	5.7	0.5	90.0	<0.01	0.16	1.1	
ZZ59138	0.10	45.6	1080	6.9	5.1	0.004	0.18	1.19	2.3	3.7	0.4	170.5	<0.01	0.04	0.4	
ZZ59139	0.18	57.2	940	9.5	5.3	0.002	0.11	1.38	2.6	5.8	0.5	120.0	<0.01	0.11	0.5	
ZZ59140	0.21	50.5	1230	6.8	4.4	0.002	0.16	1.45	1.4	5.6	0.3	151.5	<0.01	0.06	0.3	
ZZ59141	0.21	58.5	1410	10.3	6.1	0.002	0.13	1.81	3.0	5.7	0.5	173.0	<0.01	0.07	0.6	
ZZ59142	0.17	52.7	1390	10.6	5.9	0.002	0.10	1.48	3.8	5.6	0.4	171.0	<0.01	0.06	0.7	
ZZ59143	0.18	77.7	1780	11.1	6.1	0.003	0.12	2.97	4.2	7.9	0.5	195.0	<0.01	0.09	0.6	
ZZ59144	0.40	29.0	1300	16.0	13.6	0.003	0.15	2.15	1.2	3.0	0.6	82.8	<0.01	0.07	0.3	
ZZ59145	0.75	36.1	590	20.1	9.4	<0.001	0.05	1.13	3.4	1.3	0.7	26.4	<0.01	0.05	1.4	
ZZ59146	0.58	60.1	1180	23.9	8.0	0.001	0.06	1.67	3.3	2.4	0.5	38.0	<0.01	0.07	1.1	
ZZ59147	0.25	296	1590	69.1	6.3	0.001	0.19	3.84	1.4	8.0	0.4	44.8	<0.01	0.03	0.2	
ZZ59148	0.43	39.2	1560	21.6	7.0	0.001	0.17	1.53	2.8	2.8	0.5	34.1	<0.01	0.04	0.4	
ZZ59149	0.43	38.6	1040	37.7	8.5	0.001	0.07	1.77	3.1	2.1	0.5	32.1	<0.01	0.04	1.0	
ZZ59150	0.20	27.6	750	38.3	3.5	0.001	0.14	1.73	1.3	0.8	0.2	49.9	<0.01	0.01	0.2	
ZZ59151	0.12	48.6	460	39.6	12.7	<0.001	0.07	5.13	3.7	1.8	0.5	54.1	<0.01	0.09	2.1	
ZZ59152	0.21	38.0	700	73.0	10.8	0.002	0.05	2.41	4.0	3.2	0.4	37.9	<0.01	0.06	2.0	
ZZ59153	0.20	29.4	1010	67.0	8.7	0.002	0.11	2.00	1.6	3.2	0.3	53.8	<0.01	0.03	0.6	
ZZ59154	0.22	32.7	1150	52.1	10.3	0.001	0.11	2.29	2.2	3.2	0.4	39.1	<0.01	0.05	0.9	
ZZ59155	0.27	128.0	1610	91.5	13.9	0.002	0.09	4.15	3.4	6.1	0.5	68.1	<0.01	0.06	1.4	
ZZ59156	0.18	76.9	1030	53.8	7.5	0.001	0.14	3.29	1.7	3.8	0.3	63.2	<0.01	0.04	0.5	
ZZ59157	0.22	114.5	1120	89.2	8.3	0.003	0.09	5.01	3.4	5.7	0.5	54.3	<0.01	0.07	1.1	
ZZ59158	0.19	84.9	1330	90.3	5.3	0.001	0.16	45.7	1.2	5.5	0.3	62.2	<0.01	0.04	0.4	
ZZ59159	0.23	150.0	1170	233	9.0	0.001	0.07	15.70	4.6	7.5	0.6	55.2	<0.01	0.08	1.8	
ZZ59160	0.26	79.1	1690	50.1	7.6	0.001	0.16	3.78	1.9	4.0	0.4	40.5	<0.01	0.03	0.6	
ZZ59161	0.12	49.6	2080	38.3	13.5	0.001	0.08	3.05	0.4	1.6	0.6	17.6	<0.01	0.07	<0.2	

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Project: ATAC- Regional- Area B,D- Dale

**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59122		<0.005	0.71	2.73	58	0.35	12.10	313	1.6
ZZ59123		<0.005	1.30	2.40	58	0.49	12.85	415	2.2
ZZ59124		0.010	0.42	7.58	72	0.36	23.2	348	0.7
ZZ59125		0.009	0.43	2.48	65	0.46	18.15	433	0.8
ZZ59126		0.017	0.19	3.10	43	0.32	9.48	219	1.1
ZZ59127		0.018	0.29	1.28	61	0.46	23.3	506	0.7
ZZ59128		0.014	0.18	1.34	42	0.40	8.87	242	0.6
ZZ59129		0.026	0.27	2.70	69	0.42	25.5	230	0.7
ZZ59130		0.021	0.34	1.30	88	0.40	15.60	216	1.1
ZZ59131		0.018	0.34	3.52	56	0.18	9.10	246	4.1
ZZ59132		0.022	0.28	1.40	67	0.23	13.05	155	1.3
ZZ59133		0.011	0.35	3.05	118	0.18	14.45	137	1.6
ZZ59134		<0.005	0.25	8.04	80	0.09	24.0	233	2.9
ZZ59135		<0.005	0.25	5.81	72	0.11	30.6	274	1.7
ZZ59136		<0.005	0.38	5.75	69	0.12	40.9	298	1.5
ZZ59137		<0.005	0.27	2.74	45	0.06	35.2	299	1.2
ZZ59138		<0.005	0.18	2.36	53	0.05	18.25	113	2.9
ZZ59139		<0.005	0.13	3.91	73	0.09	14.05	213	1.1
ZZ59140		0.006	0.12	4.05	59	0.07	17.65	172	1.5
ZZ59141		0.007	0.24	3.00	79	0.11	29.3	170	1.7
ZZ59142		0.005	0.18	3.83	75	0.10	29.4	191	1.6
ZZ59143		0.005	0.35	5.30	119	0.17	34.8	264	1.8
ZZ59144		0.012	0.53	1.92	139	0.22	6.58	123	<0.5
ZZ59145		0.019	0.33	1.65	87	0.34	10.90	116	0.7
ZZ59146		0.019	0.29	1.57	74	0.59	21.3	195	0.9
ZZ59147		0.007	0.87	3.96	80	1.07	28.0	544	0.6
ZZ59148		0.012	0.34	4.12	88	0.27	22.4	218	1.3
ZZ59149		0.012	0.43	1.26	72	0.34	16.30	192	1.3
ZZ59150		0.008	0.22	0.76	31	0.26	11.20	233	1.3
ZZ59151		<0.005	0.74	0.77	45	0.58	4.47	374	1.1
ZZ59152		<0.005	0.59	1.75	57	0.31	16.00	290	1.3
ZZ59153		<0.005	0.57	2.20	62	0.17	11.70	304	1.3
ZZ59154		<0.005	0.51	1.51	57	0.33	14.25	281	1.8
ZZ59155		0.005	4.85	4.47	217	0.20	37.6	880	2.1
ZZ59156		<0.005	1.80	5.09	108	0.13	18.60	702	1.7
ZZ59157		0.005	3.21	2.96	169	0.18	30.8	1110	2.0
ZZ59158		0.005	2.61	3.96	241	0.18	29.6	758	1.6
ZZ59159		0.006	4.28	4.22	340	0.39	34.0	1400	1.9
ZZ59160		0.005	1.10	6.21	161	0.17	26.8	487	1.9
ZZ59161		<0.005	0.76	1.14	134	0.12	5.90	329	<0.5



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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59162		0.26	0.001	0.35	1.34	301	<0.2	<10	160	0.74	0.22	0.11	1.56	19.00	7.3	22
ZZ59163		0.30	0.005	0.29	1.69	683	<0.2	<10	250	0.79	0.23	0.08	1.80	19.85	10.0	28
ZZ59164		0.26	0.002	0.12	1.19	125.5	<0.2	<10	190	0.46	0.23	0.06	1.07	20.4	6.3	19
ZZ59165		0.23	0.001	0.20	1.60	96.4	<0.2	<10	220	0.64	0.26	0.14	0.69	22.7	6.8	27
ZZ59166		0.23	0.004	0.25	1.71	80.8	<0.2	<10	310	0.61	0.26	0.16	0.43	21.0	5.3	28
ZZ59167		0.28	0.006	0.41	1.23	92.5	<0.2	<10	250	1.05	0.26	1.20	2.56	27.2	13.8	19
ZZ59168		0.28	0.005	0.16	0.98	18.6	<0.2	<10	380	0.83	0.20	0.32	0.29	18.65	10.2	15
ZZ59169		0.28	0.002	0.05	0.93	25.1	<0.2	<10	160	0.59	0.28	0.34	0.34	15.10	12.7	15
ZZ59170		0.29	0.003	0.24	1.32	20.3	<0.2	<10	260	1.51	0.20	1.52	1.32	54.8	12.0	19

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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ZZ59162	1.64	25.2	3.17	4.16	<0.05	0.04	0.24	0.031	0.08	8.4	11.8	0.17	226	8.65	0.01	
ZZ59163	2.69	30.3	3.92	5.00	<0.05	0.04	0.17	0.036	0.08	9.1	19.3	0.29	276	7.45	0.01	
ZZ59164	2.12	18.9	2.61	5.09	<0.05	<0.02	0.07	0.020	0.06	8.7	7.0	0.15	308	4.00	0.01	
ZZ59165	2.34	18.5	2.98	5.93	<0.05	<0.02	0.06	0.030	0.07	10.7	12.5	0.27	395	2.97	0.01	
ZZ59166	2.68	13.3	2.57	5.99	<0.05	<0.02	0.06	0.028	0.09	9.7	13.4	0.28	287	3.77	0.01	
ZZ59167	1.84	42.6	4.10	3.64	0.12	0.07	0.17	0.037	0.10	12.8	16.9	0.61	913	5.69	0.01	
ZZ59168	1.02	19.2	2.91	3.49	0.09	0.08	0.05	0.036	0.11	8.0	7.0	0.15	384	5.80	0.01	
ZZ59169	1.05	18.1	3.58	4.05	0.08	0.03	0.03	0.039	0.13	5.3	11.0	0.19	643	5.25	0.01	
ZZ59170	1.99	21.0	4.15	3.58	0.18	0.09	0.10	0.051	0.11	22.5	14.3	0.45	1020	3.16	0.01	

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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ59162		0.27	47.7	1520	36.9	12.6	0.001	0.05	3.38	1.9	2.4	0.5	15.4	<0.01	0.06	0.9
ZZ59163		0.37	80.3	1080	66.4	12.4	<0.001	0.05	2.78	2.6	3.8	0.6	32.5	<0.01	0.08	1.3
ZZ59164		0.19	25.3	1120	21.4	11.4	0.001	0.05	1.42	0.5	1.0	0.7	11.2	<0.01	0.06	<0.2
ZZ59165		0.26	23.2	1930	16.3	17.3	<0.001	0.08	1.03	0.9	1.1	0.7	13.0	<0.01	0.04	0.2
ZZ59166		0.28	23.8	1940	15.7	20.3	<0.001	0.08	1.22	0.8	1.0	0.7	12.6	<0.01	0.03	0.2
ZZ59167		0.25	46.0	1410	35.7	11.8	0.001	0.05	2.30	4.1	1.6	0.4	28.6	0.01	0.05	1.8
ZZ59168		0.37	27.3	1560	13.5	12.1	0.001	0.12	1.21	2.5	1.1	0.5	15.2	<0.01	0.04	1.4
ZZ59169		0.39	26.6	890	16.7	15.1	0.001	0.04	0.96	2.7	0.6	0.6	15.8	<0.01	0.05	1.7
ZZ59170		0.38	33.2	1380	18.6	13.9	0.001	0.07	0.67	6.3	1.5	0.5	37.9	0.01	0.03	2.4





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**CERTIFICATE OF ANALYSIS WH12179449**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59162		<0.005	1.05	1.65	135	0.14	6.73	345	0.9
ZZ59163		0.007	1.70	1.42	152	0.19	10.75	453	1.0
ZZ59164		0.007	0.43	0.93	77	0.16	4.29	146	<0.5
ZZ59165		0.009	0.39	1.66	78	0.17	5.65	146	<0.5
ZZ59166		0.008	0.92	1.71	117	0.19	4.61	146	<0.5
ZZ59167		0.005	0.47	2.06	60	0.13	16.55	300	1.4
ZZ59168		<0.005	0.26	1.52	48	0.07	8.01	103	2.1
ZZ59169		0.005	0.23	0.71	44	0.07	3.36	126	0.8
ZZ59170		<0.005	0.25	1.75	35	0.08	23.3	134	2.6

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**CERTIFICATE OF ANALYSIS WH12179449**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12182362**

Project: ATAC- Regional AreaB DaleInfill  
 P.O. No.: Soil 28  
 This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

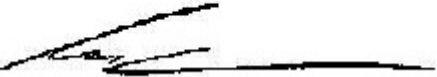
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ51219		0.11	0.004	1.64	0.34	26.0	<0.2	10	1120	0.50	0.13	1.92	1.45	4.60	4.6	16
ZZ51220		0.19	0.002	1.81	0.44	44.1	<0.2	<10	1100	0.54	0.14	1.53	1.77	5.34	4.5	20
ZZ51221		0.24	0.008	0.42	1.19	144.0	<0.2	<10	360	0.98	0.18	5.02	1.49	18.45	8.9	21
ZZ51222		0.18	0.001	0.29	1.36	109.5	<0.2	<10	700	1.25	0.25	3.45	2.16	21.0	14.2	21
ZZ51223		0.12	0.010	0.32	1.06	105.5	<0.2	<10	310	0.97	0.22	4.38	1.85	22.9	13.1	18
ZZ51224		0.24	0.005	0.39	1.35	107.5	<0.2	<10	410	1.33	0.28	4.19	1.49	23.2	16.5	21
ZZ51225		0.24	0.007	0.48	0.73	563	<0.2	<10	400	0.93	0.16	13.35	1.92	12.70	8.8	13
ZZ51226		0.09	0.026	1.02	0.61	216	<0.2	<10	460	0.59	0.22	3.80	1.31	12.80	5.9	16
ZZ51227		0.19	0.015	1.57	0.60	236	<0.2	<10	490	0.63	0.23	1.16	1.23	9.95	6.8	18
ZZ51228		0.23	0.015	0.95	0.84	391	<0.2	<10	770	0.90	0.19	5.83	3.12	15.40	8.1	18
ZZ51229		0.17	0.010	0.72	0.92	285	<0.2	<10	350	1.02	0.20	5.60	3.15	20.6	9.8	18
ZZ51230		0.16	0.005	0.87	0.97	172.5	<0.2	<10	550	0.87	0.17	4.88	2.44	17.55	7.5	19
ZZ51231		0.19	0.004	0.74	0.73	95.3	<0.2	<10	580	0.61	0.18	2.05	1.77	11.80	4.5	14
ZZ51232		0.19	0.011	1.31	0.85	247	<0.2	<10	790	1.01	0.18	3.21	6.20	17.70	8.5	21
ZZ51233		0.19	0.008	1.41	0.83	226	<0.2	<10	770	0.79	0.16	1.49	2.00	14.65	6.6	23
ZZ51234		0.16	0.006	1.17	0.96	101.0	<0.2	<10	770	0.74	0.18	1.69	2.01	16.25	5.5	22
ZZ51235		0.20	0.004	0.75	0.76	53.2	<0.2	<10	570	0.60	0.18	0.75	0.75	12.45	4.2	16
ZZ51236		0.18	0.003	0.56	1.46	116.5	<0.2	<10	500	0.81	0.21	0.48	0.55	19.65	8.9	27
ZZ51237		0.25	0.004	0.74	1.24	118.0	<0.2	<10	890	0.71	0.22	0.30	1.27	17.60	5.5	29
ZZ51238		0.20	0.005	2.69	1.18	102.5	<0.2	<10	3020	0.85	0.23	0.74	2.88	17.60	5.7	53
ZZ51239		0.19	0.005	1.34	1.71	67.5	<0.2	<10	1770	0.92	0.27	0.53	2.76	30.3	11.0	45
ZZ51240		0.23	0.005	0.33	1.43	91.0	<0.2	<10	600	0.72	0.24	0.44	0.75	22.4	7.0	28
ZZ51241		0.21	0.008	0.52	1.45	305	<0.2	<10	280	0.86	0.23	2.17	3.12	24.2	9.1	27
ZZ51242		0.16	0.021	0.59	1.35	193.0	<0.2	<10	590	0.72	0.23	1.68	5.37	20.0	7.5	26
ZZ51243		0.29	0.011	1.01	1.76	330	<0.2	<10	600	1.18	0.29	4.60	2.43	28.8	11.6	36
ZZ51244		0.30	0.014	0.83	1.02	986	<0.2	<10	380	1.25	0.16	10.85	4.32	15.90	8.5	21
ZZ51245		0.12	0.003	0.67	0.96	425	<0.2	<10	720	1.02	0.14	10.95	2.17	20.0	6.7	21
ZZ51246		0.15	0.010	1.08	1.26	1810	<0.2	<10	1000	1.44	0.23	5.51	3.69	25.4	9.8	22
ZZ51247		0.17	0.010	1.13	1.10	554	<0.2	<10	610	1.29	0.16	6.11	2.48	15.30	8.0	23
ZZ51248		0.11	0.005	0.88	0.91	482	<0.2	<10	930	1.01	0.17	4.07	4.22	16.95	6.2	23
ZZ51249		0.20	0.017	1.52	0.91	295	<0.2	<10	1410	0.89	0.18	1.71	3.18	13.30	4.7	28
ZZ51250		0.26	0.002	1.31	1.02	34.0	<0.2	<10	2280	0.67	0.22	0.52	1.23	10.95	4.3	42
ZZ53001		0.14	0.005	0.15	0.75	152.0	<0.2	10	270	0.72	0.22	3.29	2.23	13.35	8.4	20
ZZ53002		0.28	0.001	0.39	0.88	96.6	<0.2	10	370	0.82	0.26	1.38	1.23	18.60	11.4	24
ZZ53003		0.22	0.001	0.21	1.08	325	<0.2	10	560	0.92	0.27	4.39	2.27	19.20	17.9	26
ZZ53004		0.20	0.002	0.71	1.06	28.4	<0.2	<10	800	0.70	0.22	1.82	1.04	23.5	7.4	26
ZZ53005		0.27	0.003	0.15	1.12	106.5	<0.2	<10	180	0.59	0.23	0.25	0.84	25.1	9.1	25
ZZ53006		0.19	0.003	0.43	0.51	155.5	<0.2	<10	300	0.62	0.25	1.34	1.15	15.00	7.9	20
ZZ53007		0.24	0.004	0.45	0.53	127.0	<0.2	<10	900	0.71	0.25	0.91	1.10	13.35	9.7	19
ZZ53008		0.18	0.003	0.53	0.76	56.3	<0.2	<10	960	0.74	0.20	1.15	0.54	17.60	6.7	19



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ51219	0.61	42.4	1.86	1.08	0.05	0.05	0.27	0.026	0.07	3.5	1.5	0.23	126	4.47	0.02	
ZZ51220	0.69	42.8	2.09	1.42	0.05	0.05	0.28	0.030	0.08	3.8	2.4	0.11	90	4.72	0.02	
ZZ51221	1.11	28.1	2.74	3.35	0.05	0.05	0.51	0.024	0.12	11.1	12.2	2.23	573	2.99	0.02	
ZZ51222	0.83	37.4	3.41	4.26	0.06	0.06	0.44	0.032	0.11	9.8	14.9	1.77	1200	3.13	0.02	
ZZ51223	0.88	29.1	3.36	3.39	0.06	0.05	0.36	0.033	0.09	14.8	13.5	2.06	1110	3.36	0.02	
ZZ51224	1.31	48.9	3.82	4.43	0.06	0.06	0.60	0.039	0.13	11.2	16.4	2.16	1000	3.12	0.02	
ZZ51225	2.00	31.7	2.36	2.37	0.05	0.04	0.72	0.023	0.11	7.0	8.2	1.35	410	5.07	0.02	
ZZ51226	1.53	23.9	2.57	2.46	<0.05	0.05	0.68	0.030	0.15	7.0	6.8	0.80	286	6.90	0.02	
ZZ51227	1.43	23.1	2.96	2.41	<0.05	0.04	0.51	0.038	0.27	5.4	7.3	0.13	154	12.30	0.02	
ZZ51228	1.90	35.0	2.40	2.87	0.05	0.04	0.93	0.029	0.11	8.3	10.3	0.82	273	10.10	0.02	
ZZ51229	1.29	28.0	2.65	3.03	0.05	0.04	0.65	0.026	0.08	11.6	10.6	1.75	496	5.80	0.02	
ZZ51230	1.31	30.3	2.08	3.04	<0.05	0.06	0.73	0.027	0.07	9.9	9.1	2.53	391	3.78	0.02	
ZZ51231	2.14	23.1	1.56	2.53	<0.05	0.06	0.69	0.023	0.08	6.7	5.8	0.19	148	3.49	0.01	
ZZ51232	1.46	61.2	2.33	2.79	0.07	0.07	1.52	0.038	0.09	9.7	7.9	0.58	210	7.71	0.02	
ZZ51233	1.42	45.5	2.68	2.82	0.05	0.05	0.88	0.039	0.10	8.2	6.2	0.17	267	9.60	0.01	
ZZ51234	1.35	39.7	2.18	2.89	<0.05	0.05	0.59	0.028	0.07	9.1	7.0	0.19	167	4.95	0.02	
ZZ51235	1.46	24.8	1.83	2.59	<0.05	0.05	0.36	0.023	0.11	6.8	6.4	0.14	143	7.06	0.01	
ZZ51236	3.00	21.8	2.61	4.86	<0.05	0.03	0.32	0.035	0.06	9.2	10.9	0.28	267	4.57	0.01	
ZZ51237	2.65	25.6	2.61	4.08	<0.05	0.04	0.26	0.034	0.10	9.7	9.3	0.22	170	9.66	0.01	
ZZ51238	1.60	38.1	2.50	4.15	0.06	0.04	0.24	0.036	0.08	10.8	9.5	0.22	184	11.00	0.02	
ZZ51239	1.85	33.2	3.13	5.59	0.07	0.02	0.13	0.036	0.08	15.8	16.3	0.50	422	7.88	0.02	
ZZ51240	3.53	21.9	2.83	4.60	0.05	0.06	0.13	0.031	0.11	10.6	11.6	0.35	257	5.05	0.01	
ZZ51241	1.34	21.2	2.88	4.42	0.06	0.03	0.28	0.028	0.05	13.0	10.2	0.33	635	2.91	0.01	
ZZ51242	3.60	20.4	2.37	4.67	<0.05	0.03	0.68	0.025	0.06	10.1	8.9	0.23	720	4.05	0.01	
ZZ51243	2.37	28.9	3.09	5.40	0.05	0.06	0.61	0.040	0.09	17.4	14.1	0.47	998	5.46	0.02	
ZZ51244	2.07	37.8	2.60	2.96	0.05	0.04	1.17	0.027	0.07	10.1	8.3	0.22	626	12.65	0.02	
ZZ51245	0.89	18.0	1.96	2.44	<0.05	0.02	0.29	0.023	0.05	14.1	8.4	0.28	654	2.56	0.02	
ZZ51246	1.10	22.7	4.01	3.70	0.05	0.02	1.03	0.030	0.05	14.6	8.8	0.23	1320	7.48	0.02	
ZZ51247	1.79	39.1	2.90	2.77	0.08	0.05	0.39	0.029	0.08	9.2	7.8	0.23	318	9.24	0.02	
ZZ51248	1.16	24.1	2.31	2.63	<0.05	0.03	0.43	0.028	0.06	8.6	5.8	0.18	477	7.02	0.02	
ZZ51249	1.15	28.0	2.26	2.78	<0.05	0.05	0.77	0.029	0.08	8.8	5.4	0.16	318	8.05	0.02	
ZZ51250	3.26	25.1	2.36	3.55	<0.05	0.03	0.10	0.031	0.06	6.8	5.9	0.13	157	8.66	0.02	
ZZ53001	0.67	19.8	1.62	2.31	0.08	0.07	0.10	0.041	0.07	21.3	5.9	0.10	269	2.31	0.02	
ZZ53002	0.64	22.1	2.39	2.68	0.07	0.06	0.08	0.041	0.14	21.6	7.5	0.20	360	1.30	0.01	
ZZ53003	1.27	32.1	2.92	3.36	0.06	0.06	1.59	0.042	0.12	19.4	9.5	0.18	813	3.36	0.02	
ZZ53004	0.80	23.7	2.26	3.12	0.05	0.03	0.10	0.037	0.07	20.4	7.5	0.18	333	1.85	0.02	
ZZ53005	1.32	24.3	2.64	3.88	0.07	0.02	0.13	0.037	0.05	17.3	7.5	0.18	557	4.01	0.02	
ZZ53006	1.85	34.9	2.65	1.85	0.07	0.04	0.24	0.043	0.07	16.4	3.4	0.08	282	3.35	0.02	
ZZ53007	3.36	38.8	2.77	1.78	0.07	0.05	0.25	0.045	0.08	16.2	3.9	0.08	329	2.88	0.02	
ZZ53008	3.27	30.2	2.14	2.29	0.07	0.03	0.18	0.038	0.08	15.9	3.9	0.11	229	2.07	0.02	

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ51219		0.06	66.5	1480	10.9	5.5	0.011	0.15	1.37	3.6	5.2	0.3	128.0	<0.01	0.11	0.8
ZZ51220		0.08	63.5	1410	10.8	5.9	0.011	0.14	1.49	3.7	5.6	0.4	125.5	<0.01	0.12	1.0
ZZ51221		0.40	37.2	710	36.6	8.5	<0.001	0.05	1.27	4.0	1.1	0.4	38.3	<0.01	0.03	1.4
ZZ51222		0.32	42.1	740	52.2	8.7	0.001	0.05	1.07	4.3	1.6	0.5	25.3	<0.01	0.07	1.6
ZZ51223		0.29	37.4	720	52.9	7.2	<0.001	0.05	1.31	4.4	1.5	0.5	34.4	<0.01	0.04	2.1
ZZ51224		0.33	41.1	850	61.6	9.7	0.001	0.06	1.40	5.6	1.1	0.6	38.5	<0.01	0.06	2.1
ZZ51225		0.22	49.6	740	32.9	7.8	0.001	0.05	2.15	3.6	1.5	0.4	90.8	<0.01	0.03	2.3
ZZ51226		0.31	48.5	820	31.3	12.1	0.002	0.16	3.49	2.7	2.0	0.6	60.8	<0.01	0.08	2.7
ZZ51227		0.24	45.6	490	32.1	13.5	0.001	0.51	2.95	2.7	3.1	0.6	69.2	<0.01	0.13	2.7
ZZ51228		0.29	68.0	840	39.5	8.6	0.002	0.11	3.90	3.5	2.9	0.5	71.7	<0.01	0.10	1.5
ZZ51229		0.33	56.8	840	63.0	7.5	0.002	0.05	2.72	4.0	2.4	0.4	60.4	<0.01	0.05	2.3
ZZ51230		0.34	41.8	680	41.2	7.2	0.001	0.05	2.20	3.6	1.4	0.4	39.9	<0.01	0.08	1.3
ZZ51231		0.31	29.4	850	36.9	9.1	0.010	0.10	3.71	1.9	3.1	0.4	45.8	<0.01	0.08	1.0
ZZ51232		0.37	76.9	1360	53.8	8.1	0.005	0.10	4.72	4.5	3.7	0.5	75.2	<0.01	0.12	2.1
ZZ51233		0.30	58.1	1180	24.2	8.0	0.004	0.11	4.73	3.6	4.0	0.5	66.3	<0.01	0.10	1.2
ZZ51234		0.39	46.5	1170	18.9	8.4	0.002	0.11	3.18	2.6	2.6	0.5	47.5	<0.01	0.08	0.9
ZZ51235		0.36	26.9	610	16.9	9.9	0.002	0.13	2.10	2.4	2.4	0.5	34.7	<0.01	0.06	1.2
ZZ51236		0.60	39.1	1070	19.4	11.6	0.001	0.07	1.30	2.6	1.3	0.6	32.1	<0.01	0.09	1.0
ZZ51237		0.49	33.6	1340	24.3	12.0	0.002	0.14	2.18	2.0	3.0	0.6	52.0	<0.01	0.09	0.9
ZZ51238		0.39	57.4	1940	17.0	12.3	0.003	0.12	2.59	2.6	5.8	0.6	91.2	<0.01	0.07	0.6
ZZ51239		0.65	61.1	1600	16.4	12.9	0.002	0.06	2.60	3.0	3.1	0.6	65.1	<0.01	0.07	1.1
ZZ51240		0.54	31.5	1200	17.2	14.1	0.002	0.15	1.87	2.7	2.4	0.6	77.5	<0.01	0.08	1.2
ZZ51241		0.58	44.2	1730	30.0	7.6	0.001	0.10	1.51	2.8	1.9	0.5	42.7	<0.01	0.07	0.6
ZZ51242		0.66	33.9	1600	20.1	11.7	0.002	0.12	1.93	2.3	2.7	0.6	76.9	<0.01	0.03	0.6
ZZ51243		0.74	49.3	1530	25.1	11.4	0.002	0.08	1.91	6.8	2.6	0.7	84.7	<0.01	0.07	1.1
ZZ51244		0.33	92.6	970	31.9	6.2	0.002	0.06	3.85	8.3	5.3	0.4	115.5	<0.01	0.09	1.1
ZZ51245		0.40	26.8	1250	23.4	7.1	0.001	0.14	1.78	3.3	1.2	0.4	79.3	<0.01	0.04	0.3
ZZ51246		0.53	90.4	1070	63.4	7.7	<0.001	0.14	7.73	4.1	2.2	0.5	50.7	<0.01	0.05	0.4
ZZ51247		0.47	80.1	1090	18.1	7.6	0.001	0.11	2.62	6.1	4.2	0.5	142.0	<0.01	0.07	2.2
ZZ51248		0.34	41.3	1160	21.6	6.8	0.001	0.15	2.58	2.1	2.6	0.4	89.0	<0.01	0.07	0.3
ZZ51249		0.29	41.4	1860	16.0	9.3	0.001	0.16	3.11	2.7	3.5	0.4	123.5	<0.01	0.08	0.5
ZZ51250		0.17	39.5	1830	12.4	13.4	<0.001	0.08	1.81	1.6	4.6	0.6	108.0	<0.01	0.08	0.3
ZZ53001		0.18	30.6	1230	15.9	7.7	0.001	0.11	0.93	1.6	2.7	0.4	25.1	<0.01	0.22	0.8
ZZ53002		0.27	34.4	920	18.9	8.1	0.001	0.07	0.99	3.3	2.3	0.5	21.1	<0.01	0.19	1.1
ZZ53003		0.23	54.9	1080	26.9	8.5	<0.001	0.10	3.00	2.9	7.2	0.5	34.6	<0.01	0.20	0.8
ZZ53004		0.31	30.3	1120	13.6	8.5	0.001	0.11	1.16	2.1	2.7	0.4	33.0	<0.01	0.10	0.4
ZZ53005		0.34	31.5	1430	13.1	7.7	<0.001	0.10	1.13	1.9	2.2	0.5	13.5	<0.01	0.09	0.4
ZZ53006		0.18	51.0	1260	16.2	7.6	<0.001	0.08	1.75	3.9	4.4	0.4	28.7	<0.01	0.17	0.8
ZZ53007		0.14	60.6	1190	18.5	9.0	0.001	0.07	1.81	4.5	4.1	0.4	37.1	<0.01	0.26	1.1
ZZ53008		0.24	39.8	1390	12.9	8.0	0.001	0.14	1.11	2.1	3.2	0.3	42.8	<0.01	0.13	0.4

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 Finalized Date: 17- AUG- 2012  
 Account: RCM

Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ51219		<0.005	0.16	3.75	44	0.07	19.90	201	1.9
ZZ51220		<0.005	0.16	2.84	71	0.10	20.2	227	1.5
ZZ51221		0.009	0.36	1.38	59	0.27	16.65	222	1.3
ZZ51222		0.005	0.33	1.13	62	0.19	13.90	259	1.8
ZZ51223		0.006	0.31	1.42	58	0.16	16.85	234	1.5
ZZ51224		0.005	0.53	1.47	58	0.17	14.80	284	1.7
ZZ51225		<0.005	0.60	2.49	66	0.35	12.20	280	1.5
ZZ51226		0.006	1.04	1.64	171	0.23	9.04	217	1.7
ZZ51227		0.005	1.41	0.94	111	0.18	9.33	257	1.3
ZZ51228		0.006	0.94	3.15	160	0.24	15.90	342	1.5
ZZ51229		0.008	0.65	1.83	96	0.25	15.85	383	1.6
ZZ51230		0.006	0.57	1.27	77	0.15	15.05	248	1.4
ZZ51231		0.005	0.66	3.31	147	0.14	8.54	185	1.9
ZZ51232		0.008	1.18	3.12	159	0.21	21.4	474	2.6
ZZ51233		0.008	0.75	3.42	142	0.18	16.95	266	1.3
ZZ51234		0.010	0.39	1.79	96	0.20	16.90	178	1.7
ZZ51235		0.009	0.52	4.72	105	0.12	8.24	114	1.5
ZZ51236		0.017	0.46	1.88	95	0.26	7.58	188	1.0
ZZ51237		0.012	0.94	1.68	122	0.18	8.82	188	1.1
ZZ51238		0.011	0.52	3.64	136	0.21	19.20	246	1.3
ZZ51239		0.022	0.48	3.40	153	0.28	14.60	257	0.8
ZZ51240		0.016	0.55	2.09	125	0.22	8.64	124	1.3
ZZ51241		0.022	0.28	3.00	81	0.38	18.00	192	0.8
ZZ51242		0.016	0.98	3.81	158	0.37	16.60	164	0.9
ZZ51243		0.023	0.93	2.80	160	0.45	51.1	193	2.0
ZZ51244		0.013	1.00	3.06	116	0.56	39.0	484	1.4
ZZ51245		0.015	0.24	3.43	79	0.36	29.0	176	0.6
ZZ51246		0.022	0.59	2.16	92	0.66	26.2	516	0.6
ZZ51247		0.016	0.80	2.05	92	0.36	22.4	313	2.2
ZZ51248		0.013	0.65	1.83	76	0.36	15.15	229	0.8
ZZ51249		0.008	0.97	3.20	109	0.34	21.7	229	1.9
ZZ51250		0.005	0.42	3.20	106	0.66	12.50	179	0.7
ZZ53001		<0.005	0.31	1.53	41	0.10	39.1	183	1.7
ZZ53002		0.008	0.28	0.70	45	0.10	36.3	170	1.6
ZZ53003		<0.005	1.24	1.11	66	0.18	40.7	284	1.4
ZZ53004		0.007	0.18	2.95	45	0.12	32.8	112	0.7
ZZ53005		0.016	0.45	2.48	55	0.12	30.2	115	<0.5
ZZ53006		0.007	0.46	2.14	45	0.11	33.6	202	1.2
ZZ53007		0.005	0.53	1.47	43	0.22	36.7	246	1.3
ZZ53008		0.009	0.38	2.37	36	0.07	36.9	133	0.9





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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53009		0.17	0.002	1.22	0.67	60.5	<0.2	<10	1060	0.69	0.18	1.03	0.39	9.83	5.4	19
ZZ53010		0.24	0.004	2.19	0.69	60.3	<0.2	<10	1070	0.83	0.21	0.67	0.76	16.45	7.6	25
ZZ53011		0.21	0.002	0.78	0.40	28.4	<0.2	<10	560	0.44	0.23	0.21	0.37	5.66	6.7	23
ZZ53012		0.33	0.003	0.89	0.98	23.8	<0.2	<10	1020	0.64	0.22	0.52	0.39	12.20	4.6	27
ZZ53013		0.23	0.004	1.29	1.01	46.0	<0.2	<10	1230	0.84	0.18	0.30	1.20	20.1	8.9	27
ZZ53014		0.20	0.011	2.16	0.56	40.4	<0.2	10	930	0.60	0.17	1.23	1.37	8.61	4.2	23
ZZ53015		0.23	0.002	0.33	1.27	62.0	<0.2	<10	340	1.18	0.13	1.34	3.03	42.2	15.7	20
ZZ53016		0.25	0.003	0.37	1.37	81.2	<0.2	<10	410	1.01	0.20	0.43	1.15	28.6	13.7	24
ZZ53017		0.25	0.013	6.34	0.44	142.0	<0.2	<10	270	0.44	0.17	0.91	24.9	9.05	3.2	15
ZZ53018		0.30	0.002	1.01	1.01	440	<0.2	<10	200	1.29	0.20	2.61	7.85	50.9	12.3	22
ZZ53019		0.18	0.001	0.63	1.00	186.0	<0.2	10	200	1.08	0.27	2.76	3.49	42.8	13.9	17
ZZ53020		0.31	0.001	0.56	0.55	47.1	<0.2	<10	160	0.81	0.19	9.54	5.32	36.9	11.8	9
ZZ53021		0.19	0.001	0.28	0.80	14.6	<0.2	<10	190	0.87	0.16	1.64	1.00	32.3	7.8	14
ZZ53022		0.34	0.001	0.30	1.36	15.6	<0.2	<10	390	1.11	0.22	1.25	0.29	49.3	9.0	19
ZZ53023		0.31	0.001	0.20	1.32	26.6	<0.2	<10	260	0.96	0.23	0.91	0.52	38.6	9.2	17
ZZ52101		0.20	0.001	0.04	1.46	27.5	<0.2	<10	80	0.64	0.37	0.19	0.20	17.45	14.7	23
ZZ52102		0.24	<0.001	0.06	0.98	4.9	<0.2	<10	250	0.49	0.31	0.26	0.09	6.59	5.0	11
ZZ52103		0.21	0.003	0.07	1.97	31.4	<0.2	<10	90	1.21	0.37	0.03	0.36	24.0	21.7	30
ZZ52104		0.25	0.001	0.04	1.53	10.9	<0.2	<10	120	0.63	0.35	0.08	0.17	16.40	10.6	25
ZZ52105		0.31	0.001	0.08	1.63	23.5	<0.2	<10	60	0.55	0.36	0.01	0.15	20.9	12.4	24
ZZ52106		0.28	0.003	2.44	0.52	15.0	<0.2	10	1420	0.52	0.16	0.89	0.45	7.57	4.4	26
ZZ52107		0.20	0.014	1.19	0.62	11.3	<0.2	10	940	0.55	0.13	2.72	0.96	8.20	3.9	24
ZZ52108		0.21	0.011	2.88	0.42	16.3	<0.2	10	860	0.44	0.13	3.05	0.66	5.49	3.8	24
ZZ52109		0.28	0.007	3.02	0.53	25.0	<0.2	10	1820	0.58	0.17	0.55	1.16	8.33	5.3	31
ZZ52110		0.20	0.004	2.23	0.39	22.6	<0.2	10	2270	0.60	0.18	0.78	1.27	5.02	6.6	18
ZZ52111		0.20	0.003	2.96	0.59	28.2	<0.2	10	1230	0.71	0.17	1.58	1.40	6.62	4.1	29
ZZ52112		0.26	0.005	2.52	0.49	34.8	<0.2	10	1400	0.63	0.15	1.21	1.33	8.00	4.8	34
ZZ52113		0.23	0.004	3.05	0.44	36.8	<0.2	10	1310	0.62	0.17	2.10	1.76	5.77	3.7	30
ZZ52114		0.25	0.007	6.49	0.50	71.1	<0.2	10	1610	0.72	0.19	1.18	3.95	8.20	5.1	43
ZZ52115		0.25	0.008	3.56	1.09	301	<0.2	<10	2550	0.80	0.22	0.75	4.89	13.50	4.6	57
ZZ52116		0.22	0.014	0.17	0.99	109.5	<0.2	<10	150	0.54	0.18	2.94	1.40	12.75	5.7	16
ZZ52117		0.29	0.016	0.90	1.34	920	<0.2	<10	1200	2.25	0.24	3.37	4.69	25.2	8.9	31
ZZ52118		0.28	0.014	0.37	1.42	463	<0.2	<10	520	1.42	0.23	3.64	2.23	18.80	6.8	25
ZZ52119		0.25	0.027	0.42	1.38	789	<0.2	<10	780	1.67	0.26	2.92	2.46	17.60	7.5	29
ZZ52120		0.27	0.034	0.65	0.91	272	<0.2	<10	170	0.77	0.18	6.89	3.08	16.40	9.2	17
ZZ52121		0.20	0.017	0.42	1.26	560	<0.2	<10	340	1.18	0.20	3.31	2.41	15.60	6.7	21
ZZ52122		0.19	0.005	0.18	0.66	161.0	<0.2	<10	130	0.65	0.10	3.92	1.98	8.26	3.3	11
ZZ52123		0.27	0.028	2.08	0.48	111.0	<0.2	10	1600	0.64	0.15	1.40	3.39	6.14	4.3	23
ZZ52124		0.27	0.009	1.52	0.70	356	<0.2	<10	400	0.69	0.20	0.62	1.33	9.20	4.1	11
ZZ52125		0.25	0.004	2.02	0.67	337	<0.2	<10	80	0.28	0.21	0.04	0.49	14.25	3.8	13



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53009		1.60	29.2	2.08	2.17	<0.05	0.05	0.17	0.035	0.06	7.4	3.7	0.10	138	2.47	0.02
ZZ53010		1.43	42.7	2.98	1.99	0.06	0.03	0.21	0.049	0.11	8.7	4.4	0.11	262	4.62	0.02
ZZ53011		1.96	40.8	2.89	1.87	<0.05	0.02	0.05	0.036	0.11	3.5	1.4	0.03	100	6.13	0.01
ZZ53012		1.64	27.8	2.41	3.51	<0.05	0.02	0.09	0.031	0.08	6.9	4.5	0.13	114	4.06	0.02
ZZ53013		1.40	38.0	2.98	2.78	0.05	0.03	0.11	0.032	0.08	11.0	9.9	0.19	329	5.84	0.02
ZZ53014		1.02	36.2	2.41	1.78	0.05	0.05	0.17	0.033	0.09	5.9	3.6	0.09	108	4.30	0.02
ZZ53015		0.66	23.9	4.31	3.74	0.06	0.09	0.20	0.058	0.13	25.2	12.6	0.29	343	2.23	0.01
ZZ53016		0.88	26.3	3.90	4.60	0.05	0.07	0.13	0.050	0.10	13.8	13.3	0.27	536	4.24	0.01
ZZ53017		1.53	37.1	1.31	1.89	<0.05	0.06	3.04	0.027	0.10	6.0	2.7	0.07	109	25.4	0.01
ZZ53018		0.69	21.3	3.31	3.29	0.08	0.04	1.10	0.037	0.10	35.1	5.9	0.17	461	11.95	0.01
ZZ53019		0.21	25.6	3.26	2.83	0.06	0.11	0.12	0.042	0.18	24.9	5.4	0.45	419	7.45	0.02
ZZ53020		0.24	20.5	2.39	1.67	0.06	0.05	0.07	0.031	0.14	20.2	3.3	1.48	368	5.70	0.02
ZZ53021		0.69	17.8	2.17	2.71	0.05	0.06	0.07	0.029	0.10	22.2	5.4	0.12	264	3.07	0.02
ZZ53022		0.81	15.0	2.77	4.52	0.07	0.05	0.06	0.040	0.08	24.6	6.6	0.13	494	1.71	0.01
ZZ53023		0.90	20.1	3.02	4.00	0.05	0.09	0.05	0.039	0.09	14.2	9.0	0.17	379	2.36	0.01
ZZ52101		1.40	34.4	4.66	6.69	<0.05	0.03	0.04	0.035	0.09	8.0	25.3	0.36	442	1.01	0.01
ZZ52102		3.23	18.1	1.43	5.44	<0.05	<0.02	0.02	0.017	0.10	3.9	5.0	0.14	299	1.70	0.01
ZZ52103		2.34	32.9	5.46	6.29	<0.05	0.09	0.11	0.064	0.09	6.8	36.8	0.32	1580	1.06	0.01
ZZ52104		1.49	21.9	3.72	7.44	<0.05	<0.02	0.05	0.034	0.09	7.3	17.1	0.31	482	0.98	0.01
ZZ52105		1.86	22.3	4.31	7.72	<0.05	0.04	22.3	0.042	0.08	8.8	15.4	0.22	672	1.27	0.01
ZZ52106		1.23	43.5	1.66	1.73	<0.05	0.05	0.15	0.031	0.07	5.0	2.2	0.05	132	3.19	0.02
ZZ52107		1.55	39.1	1.87	1.65	<0.05	0.05	0.17	0.028	0.07	7.5	2.5	0.16	148	2.03	0.03
ZZ52108		1.07	48.1	1.62	1.19	<0.05	0.06	0.28	0.026	0.07	5.0	1.8	0.08	88	2.87	0.02
ZZ52109		0.74	53.5	2.53	1.73	0.06	0.04	0.18	0.034	0.10	6.2	3.0	0.08	117	5.29	0.02
ZZ52110		0.50	51.2	2.51	1.22	0.05	0.05	0.20	0.035	0.07	4.2	1.4	0.03	101	6.00	0.02
ZZ52111		0.41	37.0	2.23	1.78	<0.05	0.05	0.21	0.037	0.07	6.3	3.4	0.07	89	8.84	0.02
ZZ52112		0.65	31.7	2.50	1.30	0.05	0.03	0.22	0.027	0.06	5.4	2.8	0.06	126	8.79	0.02
ZZ52113		0.83	34.4	2.00	1.39	0.05	0.04	0.20	0.023	0.05	5.2	2.2	0.07	107	6.25	0.01
ZZ52114		2.42	59.9	2.42	1.80	0.08	0.05	0.36	0.034	0.07	7.3	2.6	0.07	142	12.95	0.01
ZZ52115		2.09	51.3	2.33	3.91	0.06	0.04	0.99	0.048	0.07	8.3	6.4	0.17	280	11.00	0.02
ZZ52116		0.82	16.1	1.62	2.47	<0.05	0.02	0.20	0.024	0.03	10.9	3.4	0.12	1020	1.90	0.01
ZZ52117		1.56	36.5	3.33	3.61	0.09	0.07	0.45	0.037	0.08	20.2	11.2	0.31	1420	7.24	0.02
ZZ52118		3.15	33.5	1.92	3.74	0.07	0.06	0.21	0.035	0.12	13.4	16.7	0.35	491	2.07	0.02
ZZ52119		4.81	43.2	2.59	3.86	0.06	0.07	0.26	0.034	0.13	13.7	17.1	0.51	491	2.41	0.02
ZZ52120		1.14	26.7	2.33	2.44	0.06	0.03	0.40	0.028	0.08	10.3	10.8	2.41	425	3.93	0.02
ZZ52121		3.11	35.6	2.06	3.27	0.06	0.04	0.32	0.028	0.11	11.7	14.4	0.31	423	1.92	0.02
ZZ52122		0.82	15.7	0.91	1.39	<0.05	0.04	0.32	0.013	0.03	9.2	2.4	0.09	391	1.51	<0.01
ZZ52123		1.71	45.5	2.11	1.43	<0.05	0.08	0.59	0.030	0.10	4.0	2.5	0.07	109	7.84	0.02
ZZ52124		7.33	33.5	1.81	2.13	<0.05	0.05	0.68	0.030	0.09	4.2	3.5	0.13	125	3.36	0.01
ZZ52125		11.35	19.7	2.20	3.71	<0.05	<0.02	0.19	0.023	0.06	7.1	3.2	0.09	98	3.44	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53009		0.22	43.6	990	11.0	8.8	0.001	0.09	1.14	4.3	3.2	0.4	62.1	<0.01	0.09	0.8
ZZ53010		0.19	65.8	1640	15.5	9.0	0.003	0.17	1.79	4.4	4.7	0.4	105.5	<0.01	0.15	1.0
ZZ53011		0.09	69.1	1340	14.0	11.7	0.001	0.13	1.87	1.4	4.9	0.5	50.1	<0.01	0.12	0.3
ZZ53012		0.17	35.2	1930	11.5	11.4	0.003	0.12	1.07	1.0	3.2	0.5	59.4	<0.01	0.11	0.3
ZZ53013		0.27	63.1	1560	15.8	8.8	0.001	0.09	1.73	4.4	4.2	0.4	79.4	<0.01	0.14	1.8
ZZ53014		0.16	47.2	1530	11.3	7.8	0.002	0.17	1.32	3.6	4.1	0.4	99.4	<0.01	0.14	1.0
ZZ53015		0.28	37.0	1720	40.4	8.9	0.001	0.10	0.97	5.5	2.2	0.6	50.9	<0.01	0.04	1.9
ZZ53016		0.29	33.0	1210	30.0	10.9	0.001	0.06	2.67	4.7	2.0	0.6	19.8	<0.01	0.08	1.5
ZZ53017		0.13	41.0	1020	381	9.2	0.002	0.20	13.15	1.2	5.4	0.6	52.5	<0.01	0.14	0.5
ZZ53018		0.24	114.5	1590	39.2	11.0	0.001	0.10	4.80	4.6	3.6	0.4	57.9	<0.01	0.06	0.8
ZZ53019		0.22	77.8	1130	23.1	8.0	0.001	0.10	4.12	3.1	2.3	0.4	51.1	<0.01	0.07	1.6
ZZ53020		0.11	44.3	800	17.2	6.2	<0.001	0.08	2.92	2.5	1.4	0.3	197.5	<0.01	0.06	1.1
ZZ53021		0.25	29.3	950	16.7	18.5	<0.001	0.10	1.69	2.7	1.8	0.3	48.2	<0.01	0.05	1.4
ZZ53022		0.36	27.1	1490	15.5	17.5	<0.001	0.09	0.66	2.4	1.3	0.5	49.9	<0.01	0.03	1.0
ZZ53023		0.34	26.5	1330	17.0	15.4	0.001	0.06	1.26	2.9	1.4	0.5	22.4	<0.01	0.05	1.7
ZZ52101		0.38	21.9	270	27.0	12.7	<0.001	0.02	0.51	3.3	0.6	0.7	12.2	<0.01	0.06	2.8
ZZ52102		0.29	6.3	370	9.7	20.8	<0.001	0.03	0.24	1.8	0.5	0.7	11.5	<0.01	0.06	0.9
ZZ52103		0.41	25.2	750	46.3	18.4	<0.001	0.03	0.56	4.6	0.6	0.7	6.5	<0.01	0.07	3.8
ZZ52104		0.54	15.4	530	16.4	20.6	<0.001	0.03	0.38	3.0	0.4	0.8	8.9	<0.01	0.05	1.5
ZZ52105		0.63	15.1	550	31.8	17.1	<0.001	0.03	0.57	3.4	0.7	0.9	6.1	<0.01	0.10	3.2
ZZ52106		0.12	44.9	1230	8.4	8.0	0.002	0.08	1.11	3.7	4.6	0.4	55.6	<0.01	0.12	1.2
ZZ52107		0.24	44.8	1680	8.7	7.4	0.002	0.25	1.09	1.7	5.8	0.3	101.0	<0.01	0.10	0.3
ZZ52108		0.10	57.6	1620	7.7	6.0	0.002	0.23	1.33	1.8	6.2	0.3	129.5	<0.01	0.08	0.5
ZZ52109		0.16	84.4	1600	9.6	7.7	0.001	0.13	1.50	5.8	5.8	0.4	116.0	<0.01	0.16	1.8
ZZ52110		0.05	93.3	920	10.4	6.1	0.002	0.09	1.64	5.9	5.3	0.4	102.0	<0.01	0.14	0.9
ZZ52111		0.11	74.3	1370	10.8	5.2	0.002	0.12	1.52	3.9	5.1	0.4	161.5	<0.01	0.05	0.6
ZZ52112		0.10	65.1	1180	9.6	5.3	0.002	0.18	1.63	4.1	6.0	0.4	145.5	<0.01	0.05	0.7
ZZ52113		0.10	64.2	1220	8.5	4.8	0.001	0.12	1.62	2.8	5.6	0.4	212	<0.01	0.06	0.3
ZZ52114		0.10	83.9	1660	13.6	6.0	0.004	0.08	2.63	5.6	11.5	0.5	233	<0.01	0.08	1.3
ZZ52115		0.20	50.2	2880	16.2	10.0	0.002	0.13	3.43	2.6	6.9	0.6	216	<0.01	0.09	0.4
ZZ52116		0.30	18.2	1450	13.3	4.4	0.001	0.22	0.72	1.8	1.6	0.3	30.6	<0.01	0.01	<0.2
ZZ52117		0.34	72.8	1530	46.1	7.5	0.001	0.11	5.96	12.7	4.5	0.6	72.2	<0.01	0.07	0.9
ZZ52118		0.28	47.8	1230	29.3	9.3	0.001	0.09	1.21	4.4	2.0	0.5	59.2	<0.01	0.03	0.9
ZZ52119		0.30	66.9	1280	45.2	10.6	0.001	0.08	3.95	8.4	2.6	0.6	53.1	<0.01	0.04	1.3
ZZ52120		0.25	43.6	870	40.1	5.7	0.001	0.07	3.92	3.1	1.8	0.3	69.8	<0.01	0.04	1.0
ZZ52121		0.29	58.3	1200	33.5	8.4	0.001	0.13	1.65	2.5	2.1	0.5	42.6	<0.01	0.01	0.4
ZZ52122		0.26	17.1	1240	14.9	3.1	0.002	0.20	1.28	0.8	1.2	0.3	34.3	<0.01	0.02	<0.2
ZZ52123		0.10	64.0	1730	18.5	8.6	0.004	0.21	2.60	3.3	7.5	0.3	141.0	<0.01	0.06	0.7
ZZ52124		0.12	25.1	1060	30.7	17.7	0.002	0.06	1.95	2.4	1.6	0.4	32.4	<0.01	0.05	1.2
ZZ52125		0.19	21.8	690	24.4	12.8	<0.001	0.02	1.72	0.6	1.2	0.5	13.2	<0.01	0.04	<0.2

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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53009		0.006	0.38	2.10	47	0.12	22.9	142	1.4
ZZ53010		0.006	0.30	3.01	53	0.09	27.3	233	1.0
ZZ53011		<0.005	0.19	1.43	56	0.07	5.21	269	<0.5
ZZ53012		0.005	0.22	2.97	56	0.14	10.35	136	0.6
ZZ53013		0.010	0.25	2.29	62	0.13	24.5	247	0.9
ZZ53014		0.005	0.20	2.31	52	0.07	19.70	208	1.9
ZZ53015		<0.005	0.35	1.20	57	0.05	15.80	367	2.2
ZZ53016		0.005	0.39	1.48	86	0.10	10.75	213	1.8
ZZ53017		<0.005	2.40	3.83	207	0.40	9.75	1090	1.7
ZZ53018		0.005	0.53	4.53	160	0.19	36.8	734	1.1
ZZ53019		0.006	0.50	0.93	92	0.10	23.8	471	2.4
ZZ53020		<0.005	0.49	1.27	54	0.06	16.25	331	1.3
ZZ53021		0.005	0.19	1.71	61	0.07	15.00	254	1.4
ZZ53022		0.007	0.23	1.54	43	0.09	17.90	118	1.2
ZZ53023		0.005	0.21	1.20	53	0.09	10.30	142	1.9
ZZ52101		0.006	0.14	0.40	41	0.08	2.60	70	1.4
ZZ52102		0.006	0.17	0.43	22	0.10	4.03	28	<0.5
ZZ52103		0.006	0.19	0.74	36	0.07	4.81	105	2.3
ZZ52104		0.011	0.13	0.72	48	0.09	3.03	84	<0.5
ZZ52105		0.011	0.20	0.56	49	0.11	3.34	73	1.1
ZZ52106		<0.005	0.12	2.61	47	0.07	19.75	154	1.4
ZZ52107		0.008	0.14	2.82	43	0.05	23.5	154	1.9
ZZ52108		<0.005	0.16	2.81	36	<0.05	24.7	155	2.1
ZZ52109		0.006	0.16	2.95	64	0.06	28.6	252	1.6
ZZ52110		<0.005	0.21	2.90	51	<0.05	33.3	254	1.9
ZZ52111		<0.005	0.18	3.65	60	0.12	32.3	239	2.1
ZZ52112		<0.005	0.26	3.65	69	0.09	29.4	220	1.4
ZZ52113		<0.005	0.24	2.80	57	0.11	33.9	185	1.8
ZZ52114		<0.005	0.47	3.91	94	0.22	38.3	312	1.8
ZZ52115		0.009	2.68	5.09	163	0.33	23.1	214	0.9
ZZ52116		0.016	0.16	3.86	59	0.13	25.8	135	0.7
ZZ52117		0.018	0.64	3.29	146	0.76	67.4	382	2.1
ZZ52118		0.009	0.50	2.35	71	0.38	27.5	273	1.3
ZZ52119		0.010	0.62	2.96	103	0.61	33.9	400	1.7
ZZ52120		0.011	0.56	1.72	65	0.21	17.95	262	1.0
ZZ52121		0.009	0.42	2.84	69	0.56	28.7	330	1.2
ZZ52122		0.009	0.16	4.54	37	0.21	21.2	116	1.2
ZZ52123		<0.005	0.82	3.69	70	0.15	24.5	248	2.7
ZZ52124		<0.005	0.61	1.29	57	0.19	6.84	193	1.3
ZZ52125		0.012	0.54	0.66	55	0.31	2.71	114	<0.5



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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52126		0.28	0.008	1.43	0.91	1330	<0.2	<10	690	1.13	0.19	0.61	9.91	18.50	9.1	19
ZZ52127		0.30	0.015	1.61	1.22	2010	<0.2	<10	740	1.42	0.16	0.48	11.05	16.55	7.3	24
ZZ52128		0.24	0.014	1.49	1.13	1025	<0.2	<10	650	1.18	0.17	1.31	10.60	19.85	9.8	26
ZZ52129		0.27	0.012	0.83	1.20	1500	<0.2	<10	410	1.32	0.19	0.67	17.35	19.00	10.2	26
ZZ52130		0.24	0.013	0.84	1.47	2920	<0.2	<10	460	1.83	0.22	0.14	17.35	22.1	16.7	27
ZZ52131		0.16	0.033	0.72	1.58	729	<0.2	<10	420	1.17	0.21	0.41	2.67	26.6	10.0	23
ZZ52132		0.29	0.003	0.25	1.43	483	<0.2	<10	180	0.53	0.20	0.07	1.00	17.20	4.4	24
ZZ52133		0.20	0.005	0.59	1.16	113.5	<0.2	<10	230	1.06	0.22	0.76	3.49	21.0	6.7	17
ZZ52134		0.20	0.002	0.23	1.29	236	<0.2	<10	190	0.63	0.24	0.14	1.28	16.90	5.7	20
ZZ52135		0.27	0.003	0.29	1.36	153.5	<0.2	<10	200	1.10	0.24	0.22	1.68	32.6	11.4	20
ZZ52136		0.26	0.003	0.14	1.75	109.5	<0.2	<10	230	0.68	0.25	0.23	0.56	26.6	8.0	29
ZZ52137		0.22	0.001	0.39	1.24	29.3	<0.2	<10	270	0.67	0.24	0.35	3.76	14.80	6.1	17
ZZ52138		0.23	0.006	0.33	1.20	30.8	<0.2	<10	220	1.03	0.21	0.34	1.84	28.0	7.6	17
ZZ52139		0.24	0.003	0.24	1.45	21.5	<0.2	<10	260	0.91	0.27	0.45	0.54	22.3	6.0	21
ZZ52140		0.27	<0.001	0.07	1.21	23.4	<0.2	<10	130	0.41	0.27	0.50	3.41	29.2	7.1	16
ZZ52141		0.22	0.002	0.28	1.38	35.4	<0.2	<10	200	0.73	0.28	0.21	1.07	16.85	6.5	19
ZZ52142		0.30	0.004	0.15	1.34	30.0	<0.2	<10	210	0.94	0.28	0.34	1.58	26.1	10.5	18
ZZ52143		0.26	0.004	0.64	1.36	43.6	<0.2	<10	330	1.11	0.29	1.13	3.74	26.2	10.3	33
ZZ52144		0.27	0.002	0.04	1.02	10.8	<0.2	<10	40	0.35	0.34	0.02	0.08	9.36	5.0	12
ZZ52145		0.23	0.012	0.09	1.64	9.0	<0.2	<10	100	1.20	0.48	0.08	0.15	12.95	12.4	24
ZZ52146		0.30	0.002	1.03	0.75	42.8	<0.2	<10	1030	0.59	0.25	0.48	0.49	10.15	6.2	17
ZZ52147		0.24	0.005	1.13	0.44	9.2	<0.2	<10	630	0.49	0.17	1.60	0.46	9.91	5.2	13
ZZ52148		0.23	0.006	0.29	0.22	1.9	<0.2	<10	460	0.13	0.05	2.29	0.27	2.92	2.1	6
ZZ52149		0.27	0.011	6.24	0.54	36.0	<0.2	<10	490	0.54	0.22	0.98	0.83	18.35	6.0	49
ZZ52150		0.26	0.010	4.66	0.47	27.2	<0.2	10	900	0.66	0.23	0.94	2.64	11.70	11.0	28
ZZ52151		0.17	0.011	2.45	0.47	35.9	<0.2	10	980	0.51	0.17	2.32	0.75	5.24	3.7	23
ZZ52152		0.26	0.006	2.02	0.28	9.7	<0.2	<10	890	0.34	0.16	0.46	0.21	2.64	0.9	14
ZZ52153		0.30	0.004	1.39	0.34	26.3	<0.2	<10	1340	0.48	0.19	0.19	0.44	3.18	4.8	16
ZZ52154		0.24	0.003	1.46	0.68	18.1	<0.2	<10	1370	0.51	0.14	2.47	0.67	6.70	4.2	21
ZZ52155		0.33	0.005	3.76	0.50	35.0	<0.2	<10	1560	0.63	0.17	1.16	2.67	8.85	4.2	34
ZZ52156		0.20	0.005	1.68	0.54	24.7	<0.2	<10	1950	0.68	0.16	1.47	0.99	8.53	4.0	31
ZZ52157		0.26	0.010	2.24	1.01	135.0	<0.2	<10	1510	0.67	0.24	1.06	0.99	11.30	3.2	30
ZZ52158		0.22	0.017	0.89	0.80	514	<0.2	<10	930	0.95	0.15	5.81	2.41	11.30	5.6	19
ZZ52159		0.24	0.042	0.75	1.36	1495	<0.2	<10	1050	1.61	0.22	3.95	2.70	15.85	9.9	28
ZZ52160		0.36	0.010	2.57	0.41	56.2	<0.2	10	1020	0.61	0.18	0.64	2.19	5.61	7.0	21
ZZ52161		0.32	0.009	0.61	1.01	240	<0.2	<10	370	1.07	0.19	2.04	1.53	16.35	7.7	20
ZZ52162		0.25	0.025	12.05	0.61	106.5	<0.2	10	2300	0.86	0.24	1.37	23.3	9.21	5.7	96
ZZ52163		0.25	0.014	16.75	0.89	113.5	<0.2	10	3530	1.21	0.23	0.92	34.7	13.50	5.7	170
ZZ52164		0.23	0.015	0.64	0.69	122.0	<0.2	<10	460	0.71	0.22	1.16	1.50	16.10	8.1	12
ZZ52165		0.26	0.253	0.41	0.38	264	<0.2	<10	230	0.48	0.24	0.12	0.89	8.66	7.5	9

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52126		2.59	46.3	2.96	2.03	0.05	0.06	0.83	0.035	0.11	10.3	5.9	0.16	341	8.00	0.01
ZZ52127		3.16	44.6	2.86	2.39	0.05	0.09	1.23	0.033	0.07	10.3	5.0	0.09	119	11.10	0.01
ZZ52128		1.82	47.5	2.50	2.78	0.07	0.08	2.28	0.027	0.08	15.3	7.4	0.32	541	7.32	0.01
ZZ52129		1.72	29.8	3.35	2.87	0.06	0.07	1.03	0.032	0.09	12.6	7.7	0.16	357	13.55	0.01
ZZ52130		3.02	48.3	4.38	2.86	0.07	0.07	0.68	0.036	0.08	13.1	8.6	0.14	629	17.85	0.01
ZZ52131		2.55	19.5	3.32	4.14	<0.05	0.06	0.36	0.039	0.07	11.0	11.4	0.16	425	7.54	0.01
ZZ52132		2.61	13.9	2.12	5.25	<0.05	<0.02	0.19	0.024	0.05	9.6	8.1	0.18	164	5.28	0.01
ZZ52133		2.33	29.5	2.78	3.72	0.05	0.03	0.10	0.038	0.08	11.5	7.9	0.17	371	4.64	0.01
ZZ52134		2.26	21.6	2.64	4.56	<0.05	0.02	0.08	0.033	0.08	7.9	9.9	0.16	214	4.89	0.01
ZZ52135		2.26	37.6	3.86	3.65	0.05	0.07	0.10	0.041	0.09	11.9	14.8	0.24	500	6.49	0.01
ZZ52136		1.94	21.4	2.88	5.48	<0.05	<0.02	0.04	0.030	0.07	12.7	16.3	0.47	319	2.09	0.01
ZZ52137		1.85	15.7	2.54	4.50	<0.05	0.03	0.06	0.034	0.11	6.2	8.4	0.13	355	3.57	0.01
ZZ52138		2.19	22.8	3.14	3.58	<0.05	0.06	0.05	0.039	0.10	11.4	10.5	0.14	320	4.54	0.01
ZZ52139		2.12	20.0	2.68	4.53	<0.05	0.07	0.08	0.035	0.10	11.6	10.4	0.22	300	5.09	0.01
ZZ52140		1.24	11.7	2.83	5.15	<0.05	0.02	0.06	0.033	0.05	10.1	10.1	0.12	253	5.00	0.01
ZZ52141		2.41	18.4	3.10	4.79	<0.05	0.03	0.07	0.032	0.08	7.6	9.1	0.14	501	5.47	0.01
ZZ52142		2.22	23.0	4.18	4.22	<0.05	0.05	0.07	0.052	0.09	7.4	15.0	0.21	750	6.37	0.01
ZZ52143		1.54	69.6	3.23	4.62	0.05	0.07	0.18	0.041	0.09	10.6	15.5	0.29	467	24.7	0.01
ZZ52144		1.69	21.4	2.16	6.33	<0.05	0.02	0.03	0.026	0.09	4.3	3.1	0.07	252	1.07	0.01
ZZ52145		2.65	29.9	3.64	6.56	<0.05	0.05	0.03	0.034	0.11	5.1	26.2	0.29	550	0.76	0.01
ZZ52146		2.48	30.6	2.76	2.34	<0.05	0.07	0.17	0.039	0.13	5.6	9.3	0.14	240	2.75	0.02
ZZ52147		2.13	30.3	1.90	1.28	0.06	0.04	0.17	0.029	0.06	8.1	2.2	0.05	110	3.23	0.01
ZZ52148		0.18	9.3	0.48	0.61	<0.05	0.03	0.11	0.007	0.02	2.0	0.7	0.04	358	0.57	<0.01
ZZ52149		1.88	69.6	4.31	1.38	0.11	0.06	0.42	0.053	0.22	12.2	1.7	0.06	157	8.35	0.07
ZZ52150		3.54	110.5	3.60	1.24	0.10	0.05	0.27	0.044	0.13	7.9	1.7	0.06	185	7.46	0.02
ZZ52151		2.44	54.9	1.84	1.15	<0.05	0.06	0.30	0.028	0.07	4.1	1.5	0.09	87	3.43	0.02
ZZ52152		1.53	35.4	1.11	1.03	<0.05	0.03	0.16	0.018	0.08	2.0	1.1	0.02	20	5.70	0.01
ZZ52153		0.95	63.1	2.88	1.21	<0.05	<0.02	0.12	0.030	0.06	2.3	0.9	0.01	50	5.44	0.01
ZZ52154		0.93	21.9	1.51	1.89	<0.05	0.06	0.18	0.018	0.04	5.0	2.1	0.06	478	4.43	0.02
ZZ52155		2.01	38.9	2.40	1.72	0.07	0.04	0.39	0.027	0.07	7.1	2.8	0.07	98	7.46	0.02
ZZ52156		1.01	27.3	1.97	1.62	0.06	0.05	0.27	0.023	0.05	6.2	2.7	0.16	174	5.26	0.02
ZZ52157		3.21	21.0	1.98	3.48	<0.05	0.09	0.39	0.029	0.07	6.3	5.9	0.15	158	7.62	0.02
ZZ52158		1.53	26.1	2.28	2.23	<0.05	0.03	0.80	0.023	0.07	6.2	5.7	0.18	293	6.38	0.02
ZZ52159		3.66	48.7	3.53	3.53	0.07	0.04	1.18	0.037	0.09	8.8	13.7	0.26	363	8.40	0.02
ZZ52160		3.13	61.2	3.01	1.10	0.05	0.04	0.19	0.035	0.10	3.6	1.9	0.04	244	7.73	0.02
ZZ52161		3.16	36.0	2.50	2.89	0.05	0.04	0.46	0.027	0.08	9.7	9.5	0.29	256	2.92	0.01
ZZ52162		4.99	114.0	2.92	2.05	0.14	0.05	0.84	0.044	0.13	9.9	2.3	0.08	77	48.5	0.03
ZZ52163		6.11	150.5	3.01	2.82	0.19	0.04	0.58	0.039	0.14	15.5	3.7	0.05	166	71.2	0.03
ZZ52164		4.38	49.2	2.66	2.15	<0.05	0.05	0.25	0.034	0.11	7.5	5.3	0.48	337	4.14	0.01
ZZ52165		15.70	46.7	2.60	1.87	<0.05	0.02	0.11	0.031	0.10	3.7	1.4	0.05	280	5.50	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52126	0.13	85.4	1150	67.9	9.3	0.002	0.07	3.66	4.1	4.1	0.4	61.1	<0.01	0.05	1.9
ZZ52127	0.17	145.5	1480	112.5	10.7	0.001	0.08	4.97	3.1	4.6	0.4	76.2	<0.01	0.05	1.2
ZZ52128	0.21	107.0	1440	79.2	9.7	0.001	0.09	4.65	3.2	4.6	0.4	52.2	<0.01	0.05	1.0
ZZ52129	0.19	141.0	1240	116.5	10.7	0.001	0.06	6.25	3.7	5.0	0.5	54.9	<0.01	0.04	1.5
ZZ52130	0.15	211	1530	164.5	12.0	0.001	0.06	6.90	4.1	5.1	0.5	101.0	<0.01	0.07	2.0
ZZ52131	0.24	80.1	910	234	13.4	0.001	0.03	3.80	3.3	2.0	0.5	37.0	<0.01	0.05	1.8
ZZ52132	0.29	41.1	1290	48.0	11.2	<0.001	0.05	1.57	0.7	1.5	0.6	26.5	<0.01	0.02	0.2
ZZ52133	0.19	36.0	2240	19.8	13.3	0.002	0.08	2.16	1.3	1.2	0.5	26.6	<0.01	0.03	0.5
ZZ52134	0.24	35.7	1640	32.7	17.0	0.001	0.06	1.86	0.9	1.1	0.6	18.3	<0.01	0.04	0.4
ZZ52135	0.22	43.9	1550	32.8	12.9	0.001	0.04	2.70	3.3	1.2	0.5	19.5	<0.01	0.03	2.0
ZZ52136	0.35	32.5	1120	17.3	12.4	<0.001	0.03	0.93	1.7	0.9	0.6	18.3	<0.01	0.03	0.5
ZZ52137	0.27	17.6	2600	12.6	15.9	<0.001	0.11	0.92	1.1	0.7	0.6	16.6	<0.01	0.03	0.5
ZZ52138	0.19	27.3	2470	16.3	14.2	0.001	0.10	1.68	2.5	1.4	0.5	16.0	<0.01	0.04	1.3
ZZ52139	0.33	29.5	1550	13.8	21.7	0.001	0.07	2.44	2.3	1.4	0.6	19.6	<0.01	0.04	1.1
ZZ52140	0.77	23.6	390	17.1	10.8	0.001	0.01	2.13	2.2	1.4	0.6	18.3	<0.01	0.02	2.2
ZZ52141	0.32	22.4	1220	25.6	15.0	<0.001	0.07	2.38	2.1	1.4	0.7	11.8	<0.01	0.02	0.9
ZZ52142	0.32	26.6	1280	27.4	14.7	0.001	0.05	1.61	2.9	1.1	0.6	14.4	<0.01	0.03	1.5
ZZ52143	0.34	86.3	1110	24.1	12.3	0.002	0.08	7.60	3.6	5.2	0.6	29.2	<0.01	0.08	1.2
ZZ52144	0.15	7.4	660	11.2	13.1	<0.001	0.02	0.26	1.8	<0.2	1.0	6.3	<0.01	0.01	1.9
ZZ52145	0.18	21.5	530	23.8	15.2	<0.001	0.02	0.30	3.2	0.7	0.8	16.8	<0.01	0.02	3.4
ZZ52146	0.15	35.4	650	19.5	11.6	0.001	0.23	1.13	4.0	2.4	0.4	47.0	<0.01	0.11	2.1
ZZ52147	0.13	40.8	790	10.1	7.5	0.001	0.10	0.99	3.1	1.6	0.3	59.8	<0.01	0.09	0.8
ZZ52148	0.12	9.3	930	3.3	1.3	<0.001	0.16	0.24	0.6	0.9	<0.2	64.2	<0.01	0.02	<0.2
ZZ52149	0.08	76.6	4610	16.6	13.1	0.003	0.66	2.33	9.3	9.5	0.4	198.5	<0.01	0.19	3.5
ZZ52150	<0.05	125.0	2750	15.8	11.0	0.005	0.21	2.27	6.9	7.4	0.4	126.5	<0.01	0.16	3.7
ZZ52151	0.11	53.9	1540	10.4	7.6	0.002	0.25	1.46	1.8	4.9	0.3	152.0	<0.01	0.06	0.3
ZZ52152	<0.05	19.9	460	9.2	6.6	0.007	0.19	1.05	2.1	5.1	0.3	79.9	<0.01	0.17	0.7
ZZ52153	<0.05	84.3	270	11.8	5.9	0.001	0.01	1.54	4.6	5.8	0.4	42.9	<0.01	0.10	1.0
ZZ52154	0.22	34.1	1430	8.2	4.8	0.001	0.14	1.11	1.8	3.2	0.3	176.5	<0.01	0.04	0.3
ZZ52155	0.14	64.6	1480	11.4	6.2	0.002	0.09	2.32	4.9	4.8	0.5	279	<0.01	0.06	1.1
ZZ52156	0.14	43.3	1350	10.3	4.3	0.002	0.10	1.64	2.8	3.5	0.3	228	<0.01	0.07	0.5
ZZ52157	0.28	27.6	2010	14.6	10.1	0.004	0.13	2.97	2.3	3.6	0.5	132.0	<0.01	0.07	0.5
ZZ52158	0.25	48.5	1080	17.6	5.9	<0.001	0.13	2.30	2.2	2.2	0.3	93.3	<0.01	0.04	0.3
ZZ52159	0.28	115.5	950	32.6	7.5	0.001	0.08	4.12	4.9	2.3	0.5	73.8	<0.01	0.08	0.8
ZZ52160	0.06	100.0	1640	13.5	9.1	0.003	0.19	2.00	5.2	7.1	0.4	134.5	<0.01	0.15	1.0
ZZ52161	0.30	45.3	1000	24.8	7.9	0.001	0.06	2.10	3.4	1.9	0.4	39.3	0.01	0.07	0.9
ZZ52162	<0.05	197.0	3570	19.7	10.5	0.030	0.17	11.45	7.7	21.6	0.6	313	<0.01	0.14	2.0
ZZ52163	0.08	204	4710	16.7	12.8	0.010	0.18	16.40	5.2	21.7	0.7	288	<0.01	0.19	0.9
ZZ52164	0.11	39.1	1070	26.6	9.9	0.001	0.04	2.32	3.5	1.9	0.4	31.9	<0.01	0.05	1.7
ZZ52165	0.12	35.4	1040	21.8	17.8	<0.001	0.04	3.05	1.9	1.6	0.4	16.3	<0.01	0.07	0.8





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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ52126		<0.005	1.80	2.81	161	0.16	27.3	627	2.0
ZZ52127		<0.005	4.00	3.35	257	0.24	36.6	896	2.1
ZZ52128		0.005	3.80	4.30	175	0.18	34.5	878	2.0
ZZ52129		0.005	3.76	3.24	247	0.26	31.9	1140	1.8
ZZ52130		0.005	4.59	4.56	343	0.32	40.1	1260	1.4
ZZ52131		0.005	2.47	1.81	160	0.18	15.45	691	1.2
ZZ52132		0.011	1.92	1.55	109	0.21	7.31	229	<0.5
ZZ52133		0.006	0.45	1.94	80	0.12	14.00	237	0.7
ZZ52134		0.006	0.68	1.40	94	0.20	5.59	217	1.2
ZZ52135		0.005	0.51	1.90	78	0.11	11.15	269	1.5
ZZ52136		0.021	0.36	1.22	66	0.24	6.74	153	<0.5
ZZ52137		0.006	0.27	1.98	53	0.14	4.67	135	0.7
ZZ52138		<0.005	0.31	2.60	58	0.09	10.20	175	1.4
ZZ52139		0.010	0.50	2.17	143	0.14	11.35	202	1.4
ZZ52140		0.023	0.27	1.08	69	0.18	5.73	222	0.5
ZZ52141		0.007	0.67	1.31	77	0.11	6.54	194	0.7
ZZ52142		0.007	0.39	1.31	80	0.10	6.61	210	1.2
ZZ52143		0.009	0.58	5.46	327	0.16	17.95	405	1.8
ZZ52144		<0.005	0.10	0.44	32	0.05	2.67	53	0.5
ZZ52145		<0.005	0.13	0.63	28	<0.05	6.41	75	1.2
ZZ52146		0.005	0.25	1.19	39	0.06	12.55	148	1.7
ZZ52147		<0.005	0.16	2.50	28	0.06	24.2	133	1.5
ZZ52148		0.005	0.04	0.69	11	<0.05	5.28	33	1.3
ZZ52149		<0.005	0.46	4.90	67	0.07	46.4	244	2.5
ZZ52150		<0.005	0.38	4.74	52	0.05	42.0	412	2.3
ZZ52151		<0.005	0.40	4.13	33	<0.05	25.3	140	2.1
ZZ52152		<0.005	0.14	2.14	41	<0.05	14.80	40	1.1
ZZ52153		<0.005	0.15	1.59	40	<0.05	21.1	281	0.6
ZZ52154		0.007	0.19	9.89	59	0.08	19.00	91	1.9
ZZ52155		0.005	0.64	2.83	76	0.12	36.4	200	2.0
ZZ52156		0.005	0.27	4.09	68	0.11	28.3	139	1.9
ZZ52157		0.009	1.35	3.47	139	0.22	12.55	115	1.7
ZZ52158		0.010	0.73	1.60	70	0.26	16.75	260	0.7
ZZ52159		0.011	0.97	1.35	114	0.90	23.7	694	1.2
ZZ52160		<0.005	0.53	4.22	62	0.08	30.9	325	1.1
ZZ52161		0.010	0.38	1.21	59	0.31	20.0	292	1.1
ZZ52162		<0.005	1.28	12.40	243	0.41	53.7	741	2.8
ZZ52163		<0.005	1.36	15.30	383	0.36	68.9	968	1.2
ZZ52164		<0.005	0.51	1.60	51	0.07	14.10	242	1.4
ZZ52165		<0.005	0.61	1.09	51	0.10	4.97	246	0.5

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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52166		0.26	0.015	1.51	1.00	1000	<0.2	<10	600	1.18	0.20	0.44	4.29	25.0	9.8	20
ZZ52167		0.27	0.007	0.57	0.47	115.5	<0.2	<10	290	0.72	0.25	0.13	1.42	14.80	10.2	9
ZZ52168		0.24	0.008	0.76	0.47	76.4	<0.2	<10	410	0.74	0.24	0.08	1.44	16.15	10.4	10
ZZ52169		0.21	0.008	0.68	1.42	2620	<0.2	<10	310	1.25	0.22	0.11	8.32	17.95	8.9	29
ZZ52170		0.25	NSS	1.89	1.69	5010	<0.2	<10	570	1.58	0.16	0.87	13.55	20.3	9.5	28
ZZ52171		0.23	0.020	1.11	1.24	881	<0.2	<10	850	1.18	0.22	0.91	3.23	24.1	9.4	21
ZZ52172		0.24	0.005	0.33	1.56	467	<0.2	<10	290	1.17	0.23	0.17	1.49	30.7	9.3	22
ZZ52173		0.29	0.004	0.19	1.40	99.2	<0.2	<10	230	0.68	0.28	0.23	0.74	20.4	7.7	21
ZZ52174		0.30	0.003	0.22	1.42	96.3	<0.2	<10	310	0.92	0.27	0.69	0.84	25.7	9.6	20
ZZ52175		0.29	0.002	0.39	1.58	213	<0.2	<10	310	0.98	0.26	0.53	0.94	35.8	9.3	26
ZZ52176		0.26	0.005	0.43	1.38	74.3	<0.2	<10	270	0.98	0.27	0.82	1.11	37.0	10.0	20
ZZ52177		0.24	0.005	0.64	1.19	154.5	<0.2	<10	240	1.02	0.23	1.59	2.10	34.0	9.2	20
ZZ52178		0.27	0.002	0.16	1.61	41.4	<0.2	<10	240	0.72	0.30	1.10	1.12	26.9	9.3	25
ZZ52179		0.29	0.002	0.19	1.34	42.4	<0.2	<10	240	0.87	0.24	0.72	1.37	45.5	10.1	19
ZZ52180		0.21	0.001	0.34	1.23	17.2	<0.2	<10	210	0.59	0.24	0.58	0.87	18.50	6.3	19
ZZ52181		0.25	0.001	0.14	1.38	38.9	<0.2	<10	340	0.85	0.23	1.31	0.82	15.35	8.4	18
ZZ52182		0.18	0.010	1.08	0.87	30.6	<0.2	<10	170	0.84	0.18	1.15	3.44	30.8	9.4	15
ZZ52183		0.23	0.002	0.66	0.68	19.0	<0.2	10	260	0.62	0.13	3.29	4.25	21.1	6.4	10
ZZ52184		0.27	0.014	0.60	1.29	23.7	<0.2	<10	320	1.05	0.22	1.48	0.82	26.4	10.5	19
ZZ52185		0.27	0.006	0.34	1.33	23.5	<0.2	<10	250	1.43	0.43	1.12	1.52	26.9	22.9	22
ZZ52186		0.45	0.016	0.69	0.98	4710	<0.2	<10	1630	1.60	0.17	10.75	8.01	14.50	9.5	19
ZZ52187		0.27	0.009	0.19	0.96	71.2	<0.2	<10	320	0.44	0.17	2.24	1.51	13.80	6.2	22
ZZ52188		0.22	0.004	0.68	0.72	44.9	<0.2	10	640	0.77	0.25	1.09	0.62	7.64	10.7	17
ZZ52189		0.21	0.005	0.37	0.76	30.4	<0.2	<10	1260	0.51	0.16	2.69	1.10	16.40	5.3	21
ZZ52190		0.20	0.013	0.39	0.35	4.4	<0.2	<10	130	0.13	0.08	1.08	0.71	6.65	1.5	6
ZZ52191		0.34	0.003	0.21	1.25	78.9	<0.2	<10	110	0.42	0.30	0.10	0.46	23.1	10.9	25
ZZ52192		0.29	<0.001	0.77	1.45	72.8	<0.2	<10	1500	0.69	0.27	1.19	0.46	19.35	9.0	26
ZZ52193		0.28	0.004	1.23	0.45	7.4	<0.2	<10	1210	0.40	0.20	0.70	0.29	7.51	2.8	11
ZZ52194		0.22	0.008	0.43	0.31	5.0	<0.2	<10	1000	0.20	0.08	2.33	1.13	5.05	3.3	7
ZZ52195		0.25	0.006	0.38	0.40	84.9	<0.2	<10	330	0.34	0.12	2.58	1.32	11.75	4.7	19
ZZ52196		0.32	0.008	1.35	0.34	16.4	<0.2	10	700	0.43	0.14	2.32	0.64	6.09	4.8	11
ZZ52197		0.31	0.010	0.99	1.28	33.5	<0.2	<10	1120	0.67	0.22	0.36	1.22	25.0	9.3	31
ZZ52198		0.26	0.007	1.94	0.91	52.7	<0.2	<10	1720	0.84	0.20	0.38	1.91	14.65	9.9	28
ZZ52199		0.23	0.011	0.68	0.59	39.0	<0.2	<10	1860	0.59	0.18	0.25	1.25	7.08	5.0	21
ZZ52200		0.19	0.004	0.94	0.70	30.9	<0.2	<10	1890	0.48	0.18	0.46	1.15	11.20	3.9	25
ZZ52201		0.20	0.002	0.73	0.74	36.6	<0.2	<10	3140	0.70	0.17	0.26	0.74	10.30	5.2	25
ZZ52202		0.28	0.002	0.53	0.92	71.9	<0.2	<10	590	0.65	0.22	0.05	1.23	12.15	6.4	24
ZZ52203		0.23	0.004	0.37	0.78	84.6	<0.2	<10	360	0.62	0.20	0.28	2.27	16.80	9.9	16
ZZ52204		0.25	0.003	0.42	1.04	87.3	<0.2	<10	250	0.67	0.23	0.69	2.25	19.75	8.3	19
ZZ52205		0.27	0.003	0.44	1.22	396	<0.2	<10	240	1.13	0.23	0.54	7.81	33.7	14.1	23



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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ52166		2.41	40.7	3.00	2.23	0.08	0.07	0.77	0.034	0.10	15.0	6.2	0.15	293	7.47	0.01
ZZ52167		13.95	56.6	2.98	1.76	0.05	0.03	0.16	0.036	0.11	6.5	2.2	0.05	450	7.23	0.01
ZZ52168		10.35	57.3	3.19	1.70	<0.05	0.02	0.14	0.034	0.11	6.1	1.8	0.04	400	7.89	0.01
ZZ52169		4.27	34.8	3.94	3.15	0.05	0.04	0.57	0.030	0.08	9.9	5.3	0.14	292	13.30	0.01
ZZ52170		4.60	46.5	3.35	2.27	0.06	0.06	1.29	0.029	0.08	12.3	2.8	0.06	368	14.35	0.01
ZZ52171		1.70	37.4	3.26	2.84	0.06	0.09	0.32	0.035	0.08	10.8	8.9	0.18	378	5.65	0.01
ZZ52172		1.68	22.8	3.43	4.23	0.05	0.07	0.08	0.036	0.06	13.6	12.5	0.23	383	3.78	0.01
ZZ52173		1.39	14.5	2.92	4.56	<0.05	0.02	0.05	0.031	0.08	9.1	12.1	0.28	560	2.01	0.01
ZZ52174		1.85	21.9	3.69	4.53	<0.05	0.07	0.06	0.036	0.08	10.8	12.5	0.27	768	3.34	0.01
ZZ52175		2.06	21.6	3.26	4.62	0.05	0.06	0.11	0.035	0.07	14.7	12.6	0.33	440	3.10	0.01
ZZ52176		1.61	22.3	3.44	4.32	0.05	0.04	0.07	0.033	0.07	16.4	12.0	0.22	629	2.94	0.01
ZZ52177		1.04	27.5	3.23	3.34	0.07	0.06	0.15	0.031	0.07	20.8	9.4	0.36	413	3.98	0.01
ZZ52178		1.63	21.4	3.11	4.84	<0.05	0.06	0.04	0.030	0.08	9.6	13.4	0.43	516	2.58	0.01
ZZ52179		2.36	23.1	3.16	3.58	<0.05	0.07	0.05	0.038	0.07	12.9	10.4	0.20	645	4.39	0.01
ZZ52180		1.88	20.8	2.24	4.64	<0.05	0.04	0.06	0.029	0.08	10.0	10.5	0.23	333	3.92	0.01
ZZ52181		2.17	19.8	2.82	4.71	<0.05	0.06	0.03	0.042	0.09	7.2	8.8	0.23	531	3.19	0.01
ZZ52182		0.92	23.7	2.66	2.46	0.08	0.06	0.13	0.029	0.09	21.3	8.0	0.25	277	5.68	0.01
ZZ52183		0.47	20.6	1.62	1.82	0.05	0.06	0.13	0.022	0.05	13.7	5.4	0.15	285	2.55	0.02
ZZ52184		0.66	28.7	2.90	3.59	0.06	0.06	0.18	0.030	0.08	16.4	14.1	0.32	442	1.92	0.02
ZZ52185		1.88	58.3	3.61	5.17	0.06	0.10	0.09	0.044	0.12	12.6	24.2	0.51	1190	3.25	0.02
ZZ52186		5.23	48.5	4.85	3.23	0.08	0.06	0.98	0.025	0.13	9.0	12.5	0.29	533	7.04	0.03
ZZ52187		1.23	17.9	1.79	2.82	<0.05	0.03	0.10	0.023	0.05	11.9	6.2	0.17	383	2.15	0.02
ZZ52188		0.87	25.6	1.64	2.10	<0.05	0.07	0.12	0.034	0.12	7.0	5.5	0.08	226	0.71	0.02
ZZ52189		0.56	16.2	1.90	2.05	0.05	0.03	0.12	0.025	0.04	17.0	5.4	0.13	330	1.99	0.02
ZZ52190		0.29	4.4	0.61	1.03	<0.05	0.02	0.20	0.011	0.03	4.3	0.4	0.02	25	0.94	0.02
ZZ52191		2.76	26.0	2.78	4.66	0.05	<0.02	0.05	0.036	0.06	10.5	9.7	0.25	484	1.96	0.01
ZZ52192		2.64	26.1	2.65	4.43	0.06	0.06	0.17	0.038	0.07	12.9	8.3	0.20	678	2.10	0.02
ZZ52193		3.84	21.7	1.95	1.43	<0.05	0.04	0.11	0.031	0.10	6.4	1.9	0.06	100	1.30	0.02
ZZ52194		1.13	13.7	0.77	0.95	<0.05	0.03	0.15	0.012	0.06	3.4	1.1	0.06	140	0.74	0.02
ZZ52195		1.66	15.8	1.44	1.15	0.06	0.04	0.16	0.020	0.05	22.0	2.0	0.06	422	1.27	0.02
ZZ52196		3.76	35.2	1.80	0.93	<0.05	0.05	0.16	0.027	0.07	5.1	1.6	0.11	150	1.95	0.02
ZZ52197		1.87	35.9	3.15	3.41	0.05	0.02	0.07	0.036	0.09	10.4	10.5	0.30	617	2.51	0.02
ZZ52198		1.34	49.7	3.39	2.25	0.06	0.03	0.13	0.041	0.11	7.2	8.7	0.19	472	4.92	0.02
ZZ52199		1.10	31.9	2.74	1.88	<0.05	0.04	0.05	0.029	0.08	4.2	2.0	0.04	103	7.66	0.02
ZZ52200		1.01	20.7	2.32	2.27	<0.05	0.02	0.07	0.025	0.06	5.8	3.0	0.06	152	5.04	0.02
ZZ52201		1.15	24.7	2.56	2.23	<0.05	0.05	0.07	0.030	0.05	5.4	3.1	0.06	180	5.33	0.02
ZZ52202		1.90	29.4	3.21	3.42	<0.05	<0.02	0.05	0.037	0.06	5.9	3.8	0.07	434	5.00	0.01
ZZ52203		2.24	24.1	2.77	3.12	<0.05	0.02	0.07	0.031	0.08	6.4	6.1	0.12	1280	3.68	0.01
ZZ52204		1.20	25.5	3.19	3.49	<0.05	0.05	0.11	0.031	0.10	9.4	12.2	0.24	391	3.77	0.01
ZZ52205		0.99	25.3	4.29	3.97	0.06	0.07	0.24	0.042	0.09	15.8	13.1	0.27	597	12.40	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12182362**

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ52166	0.05	0.16	98.5	1200	61.7	7.5	0.001	0.04	3.90	4.9	2.8	0.4	55.1	<0.01	0.08	2.3
ZZ52167		0.09	54.2	1070	25.9	14.2	0.001	0.04	3.15	2.9	1.8	0.4	20.9	<0.01	0.08	1.1
ZZ52168		0.07	52.6	1260	27.3	11.9	0.001	0.05	3.36	2.7	2.3	0.5	33.3	<0.01	0.08	1.1
ZZ52169		0.27	157.5	1860	157.5	11.6	0.001	0.08	6.01	1.6	3.1	0.5	80.0	<0.01	0.08	0.6
ZZ52170		0.23	193.5	2240	153.0	9.2	0.001	0.09	6.61	2.9	3.8	0.4	99.3	0.01	0.06	0.8
ZZ52171		0.18	65.0	1220	47.5	9.0	0.001	0.08	2.39	4.3	2.5	0.4	59.1	<0.01	0.08	1.7
ZZ52172		0.30	47.6	1210	36.7	12.4	<0.001	0.04	1.60	3.2	1.1	0.5	22.8	<0.01	0.09	1.6
ZZ52173		0.25	22.6	1530	24.4	20.3	<0.001	0.06	0.84	1.5	0.5	0.5	13.5	<0.01	0.03	0.5
ZZ52174		0.32	30.9	1420	27.0	17.0	0.001	0.05	1.79	3.3	0.9	0.6	25.8	<0.01	0.05	1.4
ZZ52175		0.40	42.0	1050	48.5	14.8	0.001	0.03	1.84	3.7	1.0	0.5	28.1	<0.01	0.04	1.8
ZZ52176		0.36	30.3	1150	25.8	13.0	0.001	0.05	1.44	3.1	1.3	0.5	35.5	<0.01	0.04	1.3
ZZ52177		0.35	44.4	1300	34.9	8.3	0.001	0.07	2.41	3.1	1.5	0.4	46.7	<0.01	0.04	1.0
ZZ52178		0.58	31.5	1410	19.7	14.0	0.001	0.08	1.79	2.5	0.7	0.5	33.9	<0.01	0.04	1.2
ZZ52179		0.36	36.0	1060	18.8	12.9	<0.001	0.05	2.60	2.7	1.2	0.4	54.9	<0.01	0.02	1.4
ZZ52180		0.28	20.3	1690	12.7	13.8	0.001	0.09	1.55	1.8	0.9	0.5	17.2	<0.01	0.04	0.5
ZZ52181		0.36	21.2	2600	17.7	13.5	<0.001	0.11	1.17	2.6	0.8	0.6	42.1	0.01	0.03	0.9
ZZ52182		0.24	45.3	750	13.8	8.6	0.001	0.04	4.34	3.9	1.8	0.3	42.6	<0.01	0.02	1.4
ZZ52183		0.20	25.2	1390	9.6	6.2	0.001	0.17	1.50	1.2	2.4	0.2	120.0	<0.01	0.01	0.6
ZZ52184		0.37	29.9	1080	16.8	8.0	<0.001	0.08	1.06	3.3	2.0	0.4	55.9	<0.01	0.06	1.0
ZZ52185		0.24	46.7	740	41.2	11.0	0.001	0.05	1.56	6.0	2.1	0.7	36.8	<0.01	0.08	3.6
ZZ52186		0.24	179.0	2060	30.5	13.0	0.001	0.11	10.30	6.9	3.5	0.4	84.0	<0.01	0.02	1.4
ZZ52187		0.43	24.7	1290	9.8	7.5	<0.001	0.15	0.79	1.1	1.9	0.3	32.0	<0.01	0.05	0.3
ZZ52188		0.14	26.1	770	14.4	8.7	0.002	0.08	0.72	3.9	1.7	0.4	18.2	<0.01	0.19	1.3
ZZ52189		0.30	19.4	1730	8.9	4.8	<0.001	0.18	0.62	1.2	3.0	0.3	51.7	<0.01	0.08	0.3
ZZ52190		0.26	4.6	1270	3.7	1.1	0.001	0.28	0.28	1.1	0.9	0.2	23.2	<0.01	0.04	0.3
ZZ52191		0.32	35.0	1130	14.3	10.3	<0.001	0.06	1.09	1.8	2.9	0.6	24.4	<0.01	0.12	0.3
ZZ52192		0.64	29.5	1710	14.2	12.3	0.001	0.12	1.01	2.8	2.6	0.5	58.8	0.01	0.08	1.0
ZZ52193		0.14	21.4	820	10.8	9.8	0.001	0.17	0.98	2.5	2.4	0.3	29.8	<0.01	0.17	0.8
ZZ52194		0.18	11.6	1070	4.1	4.1	0.001	0.23	0.43	1.0	1.7	<0.2	54.1	<0.01	0.04	0.2
ZZ52195		0.13	22.6	2110	8.1	5.6	0.001	0.15	0.70	1.2	2.5	0.2	62.8	<0.01	0.13	0.4
ZZ52196		0.11	39.8	1080	8.3	8.4	0.003	0.16	1.19	2.5	3.8	0.2	86.0	<0.01	0.12	0.5
ZZ52197		0.32	51.4	1470	15.2	9.4	0.001	0.08	1.01	3.0	2.9	0.5	47.1	<0.01	0.09	0.9
ZZ52198		0.13	79.5	1650	17.4	7.2	0.001	0.11	1.43	4.4	4.2	0.4	90.1	<0.01	0.15	0.8
ZZ52199		0.13	67.2	1850	12.2	7.8	0.002	0.12	1.38	1.8	4.9	0.4	103.5	<0.01	0.10	0.3
ZZ52200		0.23	37.7	1910	12.5	8.5	0.001	0.11	1.24	1.3	4.0	0.4	74.7	<0.01	0.07	0.3
ZZ52201		0.21	45.3	1730	16.6	7.7	0.001	0.09	1.23	2.2	3.4	0.4	70.7	<0.01	0.08	0.5
ZZ52202		0.18	39.4	1910	20.2	12.8	0.001	0.08	1.31	0.9	2.0	0.5	22.8	<0.01	0.08	0.2
ZZ52203		0.21	26.4	1750	47.1	18.1	<0.001	0.09	1.44	1.3	1.2	0.4	21.7	<0.01	0.07	0.5
ZZ52204		0.30	32.7	1730	55.7	14.3	0.001	0.10	1.46	2.4	1.6	0.4	27.5	<0.01	0.08	0.9
ZZ52205		0.35	96.7	1230	99.8	11.5	<0.001	0.06	2.52	4.5	2.6	0.5	31.2	<0.01	0.08	1.8



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52166		0.005	1.30	2.41	145	0.23	33.6	590	1.8
ZZ52167		<0.005	0.83	1.64	51	0.07	10.65	311	0.6
ZZ52168		<0.005	0.76	2.09	58	0.06	13.35	337	0.5
ZZ52169		0.010	3.91	4.32	306	0.34	25.2	853	0.9
ZZ52170		0.007	5.98	5.77	324	0.29	54.6	1260	1.5
ZZ52171		<0.005	1.15	2.19	100	0.09	23.6	365	2.1
ZZ52172		0.006	0.74	1.50	83	0.13	13.30	271	1.4
ZZ52173		0.009	0.38	1.11	53	0.12	5.96	176	<0.5
ZZ52174		0.008	0.51	1.41	65	0.13	10.15	179	1.7
ZZ52175		0.011	1.24	1.48	72	0.16	12.05	308	1.5
ZZ52176		0.009	0.41	1.47	61	0.17	14.25	162	1.1
ZZ52177		0.011	0.35	2.27	85	0.11	21.5	258	1.2
ZZ52178		0.016	0.28	2.59	58	0.18	6.96	151	1.5
ZZ52179		0.010	0.48	1.59	78	0.11	9.90	184	1.7
ZZ52180		0.007	0.31	1.42	92	0.10	7.43	109	0.8
ZZ52181		0.008	0.31	2.00	53	0.10	6.28	119	1.5
ZZ52182		0.009	0.33	1.46	73	0.07	24.6	295	1.6
ZZ52183		<0.005	0.24	2.10	38	0.05	15.15	139	1.5
ZZ52184		0.007	0.22	2.44	43	0.08	17.85	125	1.8
ZZ52185		0.005	0.25	1.52	40	<0.05	19.60	188	2.6
ZZ52186		0.005	3.73	3.44	138	1.19	28.3	1220	1.7
ZZ52187		0.011	0.18	3.55	42	0.13	24.2	122	0.7
ZZ52188		<0.005	0.20	1.27	35	0.09	17.80	111	1.6
ZZ52189		0.007	0.15	2.36	34	0.07	31.4	104	0.8
ZZ52190		0.013	0.08	0.77	11	<0.05	6.39	21	0.8
ZZ52191		0.023	0.54	1.87	58	0.20	13.85	125	<0.5
ZZ52192		0.014	0.35	2.60	58	0.16	29.0	108	1.6
ZZ52193		0.005	0.16	1.20	27	<0.05	15.35	98	1.2
ZZ52194		0.008	0.09	0.66	15	<0.05	8.80	76	1.6
ZZ52195		0.005	0.24	2.04	36	<0.05	39.7	163	1.2
ZZ52196		<0.005	0.20	2.38	24	0.05	21.7	151	1.8
ZZ52197		0.011	0.22	2.84	57	0.19	23.1	204	0.8
ZZ52198		0.006	0.23	2.39	62	0.09	29.8	312	0.9
ZZ52199		<0.005	0.17	2.65	58	0.07	13.70	279	1.0
ZZ52200		0.006	0.23	2.84	66	0.13	14.85	168	0.7
ZZ52201		0.006	0.19	2.61	64	0.13	17.15	198	1.4
ZZ52202		0.006	0.32	1.95	67	0.13	8.49	208	<0.5
ZZ52203		0.006	0.34	1.09	52	0.11	6.76	232	0.6
ZZ52204		0.007	0.37	1.14	64	0.11	10.65	286	1.3
ZZ52205		0.008	0.67	1.57	104	0.22	21.2	1250	1.9



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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52206		0.29	0.004	0.38	1.43	804	<0.2	<10	250	1.40	0.20	0.73	19.60	29.9	11.9	29
ZZ52207		0.26	0.002	0.24	1.25	144.5	<0.2	<10	180	1.01	0.22	1.18	1.69	37.0	9.8	21
ZZ52208		0.29	0.002	0.34	1.30	376	<0.2	<10	230	0.95	0.24	1.79	2.00	28.5	11.0	21
ZZ52209		0.29	0.002	0.11	1.25	37.5	<0.2	<10	290	1.02	0.12	0.45	0.24	42.5	13.2	35
ZZ52210		0.22	0.017	0.20	0.56	6.5	<0.2	<10	350	0.45	0.09	3.81	2.26	13.00	4.4	7
ZZ52211		0.20	0.005	0.44	0.54	16.3	<0.2	<10	220	0.70	0.14	2.27	1.16	32.6	7.0	8
ZZ52212		0.32	0.003	0.56	0.20	11.0	<0.2	<10	90	0.61	0.14	9.29	0.79	31.7	7.4	5
ZZ52213		0.29	0.002	0.10	1.12	29.5	<0.2	<10	160	0.99	0.26	0.37	0.33	27.9	10.0	18
ZZ52214		0.32	0.003	0.04	1.60	24.6	<0.2	<10	230	0.95	0.17	0.16	0.14	40.6	13.0	38
ZZ52215		0.22	0.001	0.06	2.78	17.9	<0.2	<10	260	0.89	0.12	0.42	0.33	39.4	27.3	121
ZZ52216		0.30	0.001	0.08	1.82	15.2	<0.2	<10	430	0.80	0.19	0.83	0.18	28.2	9.3	42
ZZ52217		0.30	0.003	0.08	1.55	15.7	<0.2	<10	190	0.67	0.24	0.51	0.24	14.95	5.9	23
ZZ52218		0.24	0.002	0.20	1.05	47.1	<0.2	<10	110	0.43	0.26	0.03	0.23	20.5	10.9	22
ZZ52219		0.33	0.003	0.11	1.75	15.0	<0.2	<10	390	0.85	0.27	0.51	0.47	35.9	11.1	30
ZZ52220		0.25	0.002	0.05	1.55	20.7	<0.2	<10	970	1.37	0.25	0.68	0.07	26.8	6.8	10
ZZ52221		0.19	0.005	1.66	0.61	71.9	<0.2	10	1150	0.71	0.17	1.16	3.05	12.60	6.9	22
ZZ52222		0.31	0.004	0.69	0.98	130.5	<0.2	<10	850	1.02	0.16	1.27	11.00	32.2	12.5	19
ZZ52223		0.36	0.006	1.10	0.93	112.0	<0.2	<10	340	0.88	0.18	1.02	7.02	30.8	10.4	22
ZZ52224		0.36	0.009	0.51	1.10	96.3	<0.2	<10	330	1.08	0.13	1.78	9.55	33.7	12.9	16
ZZ52225		0.38	0.006	0.71	0.83	123.0	<0.2	<10	550	0.80	0.19	0.76	4.21	22.3	10.8	18
ZZ52226		0.32	0.005	0.85	0.99	176.0	<0.2	<10	530	0.88	0.19	1.34	10.95	19.95	7.9	20
ZZ52227		0.30	0.001	0.41	1.15	210	<0.2	<10	360	0.90	0.22	1.43	10.40	22.4	9.4	20
ZZ52228		0.28	0.006	0.71	1.16	140.0	<0.2	<10	460	0.94	0.23	0.74	2.36	21.1	8.6	21
ZZ52229		0.34	0.003	0.35	1.01	223	<0.2	<10	670	0.85	0.26	0.39	4.21	19.20	9.6	18
ZZ52230		0.24	0.004	0.56	1.21	448	<0.2	<10	400	0.93	0.24	0.77	4.53	22.3	8.1	18
ZZ52231		0.26	0.002	0.06	1.82	50.5	<0.2	<10	200	1.03	0.31	0.13	0.70	34.5	19.0	25
ZZ52232		0.28	0.005	0.95	1.09	719	<0.2	<10	260	1.28	0.23	2.08	8.20	27.0	12.3	20
ZZ52233		0.25	0.007	0.97	0.67	425	<0.2	<10	540	0.92	0.25	0.17	5.46	19.05	9.8	14
ZZ52234		0.33	0.013	1.98	0.89	1580	<0.2	<10	420	1.47	0.22	1.06	11.50	32.0	12.7	21
ZZ52235		0.27	0.005	0.32	0.47	447	<0.2	<10	220	0.41	0.09	3.14	4.48	8.72	4.2	7
ZZ52236		0.35	0.008	2.19	1.42	2260	<0.2	<10	400	1.72	0.26	0.99	11.05	32.4	18.5	21
ZZ52237		0.26	0.004	0.24	0.77	501	<0.2	<10	170	0.50	0.17	1.77	3.58	16.45	6.1	11
ZZ52238		0.30	0.027	2.48	7.43	>10000	<0.2	<10	1870	8.41	0.11	0.85	123.0	33.6	41.9	79
ZZ52239		0.25	0.018	2.07	4.88	>10000	<0.2	<10	1250	5.05	0.15	1.24	68.6	35.6	20.2	61
ZZ52240		0.30	0.016	1.42	4.08	>10000	<0.2	<10	1060	3.81	0.17	0.89	51.5	28.6	16.1	52
ZZ52241		0.22	0.012	0.84	1.66	3990	<0.2	<10	580	1.53	0.17	2.25	18.10	26.5	8.3	23
ZZ52242		0.21	0.013	1.17	1.11	2770	<0.2	<10	480	1.49	0.19	2.90	22.5	24.6	15.4	20
ZZ52243		0.27	0.009	0.63	1.00	1930	<0.2	<10	490	0.96	0.23	0.44	6.95	16.45	7.5	24
ZZ52244		0.34	0.015	1.44	1.43	3160	<0.2	<10	530	1.86	0.20	0.23	16.90	25.2	11.0	27

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**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52206		1.10	30.7	4.27	3.47	0.06	0.07	0.81	0.037	0.10	17.2	10.3	0.23	336	27.1	0.01
ZZ52207		0.75	22.5	3.29	3.68	0.05	0.07	0.06	0.035	0.09	16.1	13.3	0.26	509	1.91	0.01
ZZ52208		1.00	27.0	3.15	3.98	<0.05	0.05	0.11	0.035	0.07	13.4	12.5	0.25	483	2.23	0.01
ZZ52209		1.13	21.3	4.51	3.82	0.05	0.06	0.04	0.057	0.11	14.7	11.2	0.18	451	1.55	0.01
ZZ52210		0.32	14.0	1.08	1.52	<0.05	0.07	0.11	0.015	0.04	8.1	2.4	0.14	379	1.09	0.02
ZZ52211		0.16	19.1	1.91	1.51	0.05	0.05	0.08	0.027	0.09	18.1	3.1	0.11	354	2.13	0.01
ZZ52212		0.41	32.8	1.65	0.55	0.05	0.04	0.10	0.024	0.10	18.8	1.3	1.27	182	2.14	0.02
ZZ52213		1.52	37.2	2.90	3.83	<0.05	<0.02	0.06	0.048	0.06	13.8	9.1	0.15	206	2.34	0.01
ZZ52214		1.93	21.5	4.81	4.42	0.06	0.09	0.03	0.052	0.08	14.8	10.3	0.19	526	2.80	0.01
ZZ52215		1.25	17.6	7.24	7.98	0.06	0.05	0.03	0.050	0.06	10.7	39.6	0.65	1310	1.40	0.01
ZZ52216		1.26	15.1	3.73	5.99	<0.05	0.06	0.04	0.046	0.07	10.7	13.9	0.28	567	1.22	0.01
ZZ52217		1.30	13.2	2.92	5.61	<0.05	0.04	0.03	0.030	0.06	7.0	13.4	0.24	203	1.78	0.01
ZZ52218		2.13	22.7	4.25	4.59	<0.05	<0.02	0.07	0.038	0.09	8.1	2.9	0.08	198	2.13	0.02
ZZ52219		2.39	17.2	3.52	5.72	0.05	<0.02	0.06	0.035	0.08	16.6	16.3	0.40	686	1.40	0.01
ZZ52220		1.00	11.0	3.76	4.63	<0.05	0.07	0.03	0.063	0.09	11.3	7.4	0.13	544	0.93	0.02
ZZ52221		1.50	42.7	2.44	2.01	0.05	0.08	0.23	0.031	0.09	7.3	5.6	0.12	217	6.43	0.02
ZZ52222		1.22	37.6	3.14	3.10	0.07	0.09	0.42	0.039	0.10	17.2	11.1	0.30	226	3.48	0.02
ZZ52223		0.85	32.4	2.72	3.06	0.07	0.06	0.68	0.030	0.08	16.0	12.1	0.29	454	5.04	0.01
ZZ52224		0.64	29.1	3.37	3.45	0.06	0.07	0.38	0.043	0.11	19.4	11.3	0.29	310	2.79	0.01
ZZ52225		2.79	43.2	2.75	2.75	0.05	0.09	0.34	0.032	0.08	11.4	10.0	0.24	334	6.21	0.01
ZZ52226		1.51	35.7	2.89	3.08	0.05	0.08	0.37	0.031	0.07	12.6	10.7	0.24	169	5.11	0.01
ZZ52227		1.18	26.9	3.28	3.44	0.06	0.10	0.21	0.028	0.08	14.6	11.5	0.29	465	4.42	0.01
ZZ52228		4.57	36.7	3.14	3.38	0.06	0.09	0.21	0.033	0.11	10.6	11.7	0.33	326	3.30	0.01
ZZ52229		3.52	33.6	2.79	3.78	<0.05	0.05	0.10	0.033	0.12	8.3	9.3	0.20	631	3.67	0.01
ZZ52230		2.19	23.1	2.49	4.48	0.06	0.09	0.19	0.027	0.09	12.4	11.1	0.23	507	3.03	0.01
ZZ52231		1.70	41.6	4.05	5.53	0.05	0.05	0.04	0.034	0.08	11.6	34.7	0.52	630	1.40	0.01
ZZ52232		1.97	32.5	4.02	3.39	0.07	0.09	0.56	0.037	0.10	17.6	10.6	0.58	359	11.10	0.01
ZZ52233		8.91	48.5	2.76	2.61	0.06	0.04	0.25	0.038	0.11	8.5	4.3	0.08	353	6.46	0.01
ZZ52234		2.87	40.7	3.58	3.04	0.07	0.07	0.98	0.035	0.11	22.6	6.2	0.13	301	10.95	0.01
ZZ52235		1.63	15.4	1.02	1.39	<0.05	0.05	0.21	0.011	0.04	6.8	1.8	0.07	185	2.03	0.01
ZZ52236		1.63	52.7	4.40	3.65	0.07	0.10	1.49	0.041	0.11	18.1	14.7	0.42	939	5.24	0.01
ZZ52237		1.13	13.5	1.69	2.20	<0.05	0.04	0.31	0.025	0.05	8.8	3.4	0.08	295	2.09	0.01
ZZ52238		6.41	144.5	5.30	1.97	0.18	0.14	6.06	0.022	0.06	29.0	4.5	0.03	698	20.1	0.02
ZZ52239		4.40	106.0	4.43	2.29	0.12	0.15	3.14	0.031	0.07	28.9	5.3	0.08	413	12.25	0.02
ZZ52240		5.72	81.3	3.91	2.81	0.10	0.14	2.64	0.030	0.08	21.7	7.0	0.13	344	9.57	0.01
ZZ52241		3.11	38.1	2.45	2.64	0.06	0.07	0.85	0.027	0.06	17.6	5.7	0.13	272	4.78	0.02
ZZ52242		4.16	54.3	2.67	2.04	0.07	0.09	1.28	0.031	0.10	17.4	5.0	0.61	333	8.37	0.01
ZZ52243		5.13	39.5	3.16	3.33	0.05	<0.02	0.56	0.029	0.09	9.7	3.6	0.08	203	12.40	0.01
ZZ52244		5.00	50.6	3.58	2.75	0.07	0.10	1.01	0.033	0.08	15.5	6.3	0.12	294	12.85	0.01

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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52206		0.38	159.0	1980	30.7	12.2	0.001	0.06	3.65	4.2	3.8	0.5	63.4	<0.01	0.06	1.4
ZZ52207		0.35	28.0	1450	20.0	10.8	0.001	0.08	0.83	3.3	1.2	0.4	34.1	<0.01	0.05	1.4
ZZ52208		0.37	42.4	1150	22.9	8.7	0.001	0.09	1.35	2.8	1.2	0.4	44.0	<0.01	0.07	0.9
ZZ52209		0.22	38.7	1630	10.5	9.8	0.001	0.06	0.41	4.6	0.9	0.5	19.9	<0.01	0.06	1.9
ZZ52210		0.16	15.6	1760	5.8	4.0	0.001	0.26	0.58	0.7	1.4	0.2	60.2	<0.01	0.02	0.4
ZZ52211		0.16	28.5	1250	9.2	4.9	0.001	0.13	0.99	1.4	1.9	0.2	44.2	<0.01	0.04	0.8
ZZ52212		<0.05	40.6	550	10.2	4.6	0.001	0.02	1.26	4.5	2.5	<0.2	135.5	<0.01	0.03	3.9
ZZ52213		0.21	55.7	1860	14.1	8.4	0.001	0.06	1.08	0.9	2.1	0.5	19.0	<0.01	0.08	0.2
ZZ52214		0.36	43.4	1280	12.9	12.9	0.001	0.04	0.51	5.1	0.8	0.6	16.1	<0.01	0.07	2.1
ZZ52215		0.29	53.2	1420	9.7	9.8	<0.001	0.04	0.32	7.8	0.9	0.6	22.4	<0.01	0.05	1.7
ZZ52216		0.46	23.1	1660	13.4	13.3	<0.001	0.08	0.40	3.5	0.8	0.7	30.9	<0.01	0.05	1.2
ZZ52217		0.44	17.1	1470	14.3	10.7	0.001	0.05	0.51	1.4	0.7	0.6	19.7	0.01	0.06	0.6
ZZ52218		0.37	38.2	1030	18.2	10.1	0.001	0.09	0.80	2.0	0.6	0.7	18.2	<0.01	0.06	0.4
ZZ52219		0.29	29.1	1150	16.0	14.3	<0.001	0.03	0.66	2.0	0.8	0.6	28.5	<0.01	0.05	0.5
ZZ52220		0.33	13.8	1400	13.1	13.1	<0.001	0.05	0.35	2.5	0.2	1.0	25.9	<0.01	<0.01	1.9
ZZ52221		0.19	70.2	1660	20.6	9.5	0.002	0.15	2.06	3.8	5.5	0.4	116.5	<0.01	0.14	0.9
ZZ52222		0.31	59.9	1470	52.8	9.4	0.004	0.11	2.24	5.2	2.8	0.5	60.3	<0.01	0.05	1.9
ZZ52223		0.35	54.3	1160	69.9	6.4	0.001	0.07	3.47	4.5	2.5	0.4	40.5	<0.01	0.03	1.4
ZZ52224		0.36	40.1	1610	63.2	8.1	0.001	0.12	1.61	4.6	2.3	0.5	62.1	<0.01	0.03	1.3
ZZ52225		0.34	68.2	1160	28.9	8.2	0.003	0.06	3.29	4.4	2.9	0.4	47.3	<0.01	0.05	2.0
ZZ52226		0.29	55.7	1390	70.1	10.1	0.002	0.10	2.28	3.7	2.8	0.4	48.0	<0.01	0.05	1.1
ZZ52227		0.41	47.8	1710	70.3	14.2	0.001	0.12	1.86	3.4	1.8	0.4	38.5	<0.01	0.02	1.2
ZZ52228		0.34	43.6	1580	39.3	21.5	<0.001	0.12	1.77	4.3	1.5	0.4	35.7	<0.01	0.04	1.6
ZZ52229		0.30	42.9	1840	85.2	18.7	<0.001	0.11	1.79	2.3	1.9	0.5	31.3	<0.01	0.06	0.9
ZZ52230		0.48	53.8	2210	39.9	16.2	<0.001	0.14	1.65	2.0	1.2	0.5	29.3	0.01	0.06	0.8
ZZ52231		0.36	40.8	650	27.6	11.1	<0.001	0.02	0.87	3.7	0.7	0.4	11.8	<0.01	0.04	1.8
ZZ52232		0.25	138.5	1460	137.5	11.8	0.001	0.08	3.86	4.6	2.4	0.4	43.8	<0.01	0.03	1.7
ZZ52233		0.15	71.1	1280	40.3	16.5	0.001	0.10	3.19	2.9	2.6	0.5	45.1	<0.01	0.09	1.4
ZZ52234		0.20	196.0	1090	137.0	11.1	<0.001	0.10	6.20	4.1	4.5	0.5	65.4	<0.01	0.08	1.6
ZZ52235		0.25	60.1	1200	22.2	5.1	0.001	0.29	1.72	0.7	1.0	0.2	62.5	<0.01	0.04	0.2
ZZ52236		0.18	99.9	1030	275	9.9	0.001	0.05	3.76	7.1	2.8	0.5	53.2	<0.01	0.07	2.9
ZZ52237		0.35	39.6	1150	21.0	7.2	<0.001	0.16	1.63	1.5	1.4	0.3	51.5	<0.01	0.04	0.4
ZZ52238		0.08	441	3800	349	8.3	0.001	0.04	14.45	6.1	9.3	0.4	584	0.01	0.13	2.6
ZZ52239		0.19	313	3350	214	9.3	0.001	0.08	10.45	5.5	6.7	0.4	399	0.01	0.09	2.4
ZZ52240		0.29	249	2820	181.5	11.3	0.001	0.06	8.01	5.2	5.9	0.4	307	0.01	0.09	2.9
ZZ52241		0.36	104.5	1920	71.4	9.4	0.001	0.14	3.97	2.4	3.5	0.4	156.0	0.01	0.05	0.9
ZZ52242		0.23	178.0	1430	115.5	12.1	0.002	0.09	7.21	3.6	5.0	0.4	110.0	<0.01	0.03	1.5
ZZ52243		0.20	139.5	1470	121.5	12.9	<0.001	0.07	5.72	0.9	4.3	0.6	77.7	<0.01	0.08	0.2
ZZ52244		0.27	183.0	1730	154.0	12.7	0.001	0.07	7.09	4.1	5.0	0.5	94.5	<0.01	0.05	1.8

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 Finalized Date: 17- AUG- 2012  
 Account: RCM

Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182362**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52206		0.010	2.33	3.47	323	0.28	46.5	1980	1.7
ZZ52207		0.007	0.24	1.50	55	0.11	15.15	303	1.9
ZZ52208		0.007	0.44	1.30	74	0.11	11.50	347	1.3
ZZ52209		<0.005	0.11	1.00	37	<0.05	10.95	107	1.3
ZZ52210		<0.005	0.08	4.97	19	<0.05	9.17	67	1.7
ZZ52211		<0.005	0.14	1.37	27	0.06	18.95	163	1.4
ZZ52212		<0.005	0.09	1.12	21	<0.05	19.70	100	1.7
ZZ52213		0.008	0.14	1.67	37	0.13	9.26	93	<0.5
ZZ52214		0.006	0.29	0.68	41	0.07	10.30	86	2.0
ZZ52215		0.006	0.12	0.50	93	0.06	9.20	108	1.5
ZZ52216		0.007	0.13	0.88	48	0.11	6.60	66	1.2
ZZ52217		0.008	0.20	0.84	46	0.14	3.10	73	0.8
ZZ52218		0.009	0.60	0.63	39	0.11	4.58	90	<0.5
ZZ52219		0.014	0.21	0.85	48	0.19	7.82	113	<0.5
ZZ52220		<0.005	0.32	0.40	24	0.07	6.64	65	2.0
ZZ52221		<0.005	0.54	2.58	62	0.08	19.55	326	2.4
ZZ52222		0.005	1.18	1.26	117	0.10	19.40	923	2.4
ZZ52223		0.009	0.54	2.13	112	0.16	22.1	455	1.7
ZZ52224		<0.005	0.57	2.42	71	0.07	15.15	594	2.1
ZZ52225		0.010	0.51	2.13	103	0.13	18.35	412	2.3
ZZ52226		0.006	0.56	2.83	99	0.08	22.3	664	2.3
ZZ52227		0.010	0.65	2.70	106	0.11	17.20	773	2.3
ZZ52228		0.008	0.57	2.03	57	0.09	18.50	343	2.5
ZZ52229		0.008	0.64	1.55	59	0.12	17.00	315	1.1
ZZ52230		0.011	1.28	1.85	72	0.14	25.2	377	1.6
ZZ52231		0.008	0.24	0.74	42	0.14	6.57	145	1.5
ZZ52232		<0.005	1.03	1.43	98	0.13	27.1	991	2.2
ZZ52233		<0.005	1.76	2.19	80	0.10	21.5	427	1.1
ZZ52234		<0.005	3.93	3.00	171	0.30	38.4	1600	1.9
ZZ52235		0.008	1.96	2.34	40	0.06	12.00	612	1.6
ZZ52236		<0.005	5.24	2.39	197	0.11	39.8	741	3.0
ZZ52237		0.008	1.49	1.30	78	0.09	10.45	422	1.3
ZZ52238		<0.005	125.5	50.1	1360	0.41	251	3890	5.5
ZZ52239		0.005	49.5	34.2	1060	0.35	172.5	2920	4.4
ZZ52240		0.007	45.8	27.4	773	0.33	116.5	2330	4.0
ZZ52241		0.007	10.15	8.95	266	0.20	51.8	832	2.2
ZZ52242		0.005	19.30	4.83	263	0.25	45.3	1580	2.5
ZZ52243		0.006	4.35	3.20	298	0.29	23.9	806	<0.5
ZZ52244		0.006	7.46	5.60	327	0.30	51.6	1280	2.6



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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182362**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12182363**

Project: ATAC- Regional AreaB DaleInfill  
 P.O. No.: Soil 28  
 This report is for 160 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53841		0.21	0.003	0.19	1.20	309	<0.2	<10	230	0.85	0.23	0.14	2.10	22.7	10.2	20
ZZ53842		0.26	0.003	0.10	1.23	70.7	<0.2	<10	300	0.73	0.28	0.47	0.75	13.15	10.4	18
ZZ53843		0.27	0.002	0.33	1.41	66.5	<0.2	<10	430	0.95	0.27	0.70	0.78	31.6	10.1	20
ZZ53844		0.26	0.003	0.45	1.58	104.0	<0.2	<10	500	1.13	0.27	0.59	0.97	32.7	13.3	27
ZZ53845		0.26	0.002	0.08	1.49	53.5	<0.2	<10	400	0.84	0.28	0.49	0.51	15.55	8.9	22
ZZ53846		0.18	0.002	0.18	1.01	33.4	<0.2	<10	150	0.57	0.23	0.28	0.37	13.25	7.0	18
ZZ53847		0.25	0.004	0.53	1.57	43.4	<0.2	<10	160	0.95	0.25	0.37	2.05	42.8	9.9	26
ZZ53848		0.20	0.002	0.22	1.07	36.8	<0.2	<10	270	0.70	0.24	0.66	1.27	19.65	8.2	16
ZZ53849		0.26	0.001	0.08	1.40	26.5	<0.2	<10	240	0.75	0.28	0.15	0.65	20.6	10.9	17
ZZ53850		0.15	0.005	0.33	0.88	24.7	<0.2	<10	210	0.89	0.19	1.83	3.08	46.0	8.0	12
ZZ53851		0.15	0.004	1.00	0.62	15.1	<0.2	<10	240	0.66	0.13	2.97	2.65	29.6	7.5	9
ZZ53852		0.30	0.003	0.99	1.10	21.3	<0.2	<10	260	1.05	0.20	1.10	2.58	26.7	10.4	19
ZZ53853		0.19	0.005	0.44	1.61	21.8	<0.2	<10	400	1.15	0.25	1.07	1.23	20.7	10.1	24
ZZ53854		0.24	0.004	0.37	1.21	23.8	<0.2	<10	230	0.92	0.23	1.46	2.25	23.8	11.6	19
ZZ53855		0.18	0.003	0.05	1.47	32.2	<0.2	<10	130	0.74	0.34	0.07	0.11	14.10	11.1	21
ZZ53856		0.24	0.002	0.08	1.85	32.9	<0.2	<10	140	1.02	0.37	0.06	0.17	20.2	18.3	26
ZZ53857		0.21	0.002	0.05	1.69	11.3	<0.2	<10	200	1.29	0.43	0.12	0.10	14.00	18.5	26
ZZ53858		0.25	0.003	0.18	1.59	28.2	<0.2	<10	350	1.58	0.39	0.87	0.31	24.4	17.7	25
ZZ53859		0.41	0.002	0.16	1.41	11.2	<0.2	<10	490	1.34	0.35	0.71	0.33	17.20	11.6	21
ZZ53860		0.21	0.001	0.06	1.52	15.6	<0.2	<10	230	0.96	0.34	0.42	0.34	21.5	12.0	19
ZZ53861		0.26	0.002	0.79	0.91	14.0	<0.2	<10	590	0.51	0.18	0.40	0.53	11.45	4.2	24
ZZ53862		0.24	0.004	1.25	0.51	20.3	<0.2	<10	620	0.35	0.24	0.12	0.53	7.48	3.8	23
ZZ53863		0.29	0.004	1.82	0.27	14.2	<0.2	10	1000	0.35	0.16	0.23	0.60	2.10	2.1	16
ZZ53864		0.15	0.018	1.92	0.34	11.9	<0.2	<10	730	0.22	0.15	0.17	0.26	3.38	1.3	20
ZZ53865		0.22	0.004	0.80	1.12	26.7	<0.2	<10	1340	0.60	0.20	0.32	0.27	14.90	5.3	33
ZZ53866		0.23	0.003	1.41	0.75	32.2	<0.2	<10	2270	0.72	0.18	0.61	1.19	12.20	6.1	34
ZZ53867		0.22	0.005	1.24	0.83	28.0	<0.2	<10	1840	0.64	0.18	0.87	0.89	12.40	6.0	27
ZZ53868		0.33	0.006	3.11	0.84	28.6	<0.2	<10	3050	0.70	0.19	0.60	1.58	9.79	4.2	51
ZZ53869		0.15	0.005	3.33	0.84	34.2	<0.2	10	2840	0.77	0.18	0.90	3.70	9.18	4.5	45
ZZ53870		0.21	0.006	2.91	1.13	35.6	<0.2	<10	3130	0.84	0.22	0.70	2.66	12.80	4.6	56
ZZ53871		0.28	0.089	4.07	0.69	368	<0.2	<10	1150	1.09	0.23	1.04	5.28	9.66	11.0	36
ZZ53872		0.29	0.014	5.77	0.80	304	<0.2	<10	1700	1.04	0.25	0.43	5.68	10.80	9.9	56
ZZ53873		0.24	0.004	2.05	0.92	179.5	<0.2	<10	740	0.73	0.23	0.11	1.71	14.70	7.3	31
ZZ53874		0.26	0.003	0.82	1.11	174.0	<0.2	<10	220	0.56	0.27	0.07	0.76	19.40	9.3	24
ZZ53875		0.23	0.004	0.73	0.54	157.5	<0.2	<10	300	0.81	0.26	0.04	1.09	14.65	11.2	10
ZZ53876		0.45	0.006	0.75	0.70	126.0	<0.2	<10	390	0.92	0.24	0.16	1.78	27.3	13.8	13
ZZ53877		0.36	0.004	0.83	0.46	91.9	<0.2	<10	270	0.64	0.25	0.08	1.95	21.0	12.9	9
ZZ53878		0.21	0.004	0.73	0.71	97.5	<0.2	<10	500	0.74	0.25	0.08	1.62	21.1	11.1	13
ZZ53879		0.24	0.002	0.26	0.72	256	<0.2	<10	230	0.48	0.24	0.05	0.69	12.65	5.7	14
ZZ53880		0.31	0.006	0.76	1.49	1095	<0.2	<10	580	1.08	0.25	0.39	8.06	34.9	12.5	26

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**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53841		1.53	21.4	3.05	4.37	<0.05	0.02	0.07	0.031	0.07	10.8	12.8	0.24	757	3.87	0.01
ZZ53842		1.31	25.6	3.58	5.26	<0.05	0.06	0.04	0.033	0.10	5.8	12.2	0.21	610	4.01	0.01
ZZ53843		1.59	23.6	3.52	4.76	<0.05	0.08	0.09	0.035	0.06	9.6	12.7	0.24	786	3.78	0.01
ZZ53844		1.51	31.0	3.43	4.96	0.05	0.07	0.15	0.036	0.07	17.6	14.8	0.43	711	2.61	0.01
ZZ53845		1.67	25.1	3.65	5.31	<0.05	0.08	0.07	0.034	0.07	6.3	14.2	0.24	503	4.49	0.01
ZZ53846		2.16	20.2	2.69	4.37	<0.05	<0.02	0.03	0.030	0.07	6.5	6.1	0.13	313	3.96	0.01
ZZ53847		1.97	21.1	3.28	5.25	0.06	<0.02	0.06	0.037	0.06	18.3	17.6	0.34	436	3.03	0.01
ZZ53848		3.71	22.9	2.60	4.23	<0.05	0.07	0.02	0.031	0.11	9.4	5.0	0.12	292	14.10	0.01
ZZ53849		2.42	18.5	3.66	5.82	<0.05	0.02	0.03	0.042	0.09	8.2	11.4	0.15	354	3.65	0.01
ZZ53850		1.16	15.4	2.49	2.56	0.06	0.03	0.08	0.029	0.07	23.4	6.1	0.11	542	4.51	0.01
ZZ53851		0.66	20.5	1.99	1.55	0.06	0.04	0.12	0.024	0.07	18.2	3.1	0.11	259	5.59	0.01
ZZ53852		0.75	28.2	2.96	3.12	0.07	0.05	0.21	0.037	0.08	16.6	8.7	0.25	584	5.85	0.01
ZZ53853		1.07	29.0	2.94	4.86	0.05	0.08	0.16	0.033	0.09	11.6	14.3	0.33	526	5.41	0.01
ZZ53854		1.06	39.1	3.31	3.65	0.07	0.09	0.12	0.034	0.11	13.5	16.4	0.52	453	2.81	0.01
ZZ53855		1.50	27.3	3.97	6.33	<0.05	0.03	0.05	0.029	0.13	5.7	16.2	0.27	568	0.64	0.01
ZZ53856		1.77	37.9	4.58	7.09	<0.05	0.05	0.11	0.037	0.11	8.5	28.1	0.40	837	0.79	0.01
ZZ53857		1.77	36.3	3.51	6.10	<0.05	0.05	0.05	0.033	0.12	4.6	33.2	0.47	942	0.46	0.01
ZZ53858		2.18	51.4	4.22	5.81	0.07	0.10	0.18	0.035	0.13	11.2	30.0	0.78	1070	0.62	0.01
ZZ53859		1.60	27.9	3.29	4.82	<0.05	0.12	0.12	0.033	0.14	7.6	20.2	0.42	2670	0.87	0.02
ZZ53860		1.00	18.5	3.71	5.96	<0.05	0.05	0.05	0.031	0.12	8.7	13.7	0.32	1220	0.84	0.01
ZZ53861		2.65	35.3	1.83	3.98	<0.05	<0.02	0.06	0.029	0.05	6.0	4.9	0.05	59	3.91	0.01
ZZ53862		1.53	29.4	2.48	2.13	0.05	<0.02	0.05	0.031	0.11	4.5	1.3	0.03	45	7.75	0.01
ZZ53863		0.92	43.1	2.21	1.18	<0.05	0.02	0.12	0.025	0.12	1.6	1.4	0.01	34	4.88	0.02
ZZ53864		1.48	23.4	1.43	1.36	<0.05	0.02	0.12	0.023	0.11	2.7	0.7	0.02	22	5.98	0.02
ZZ53865		2.40	25.6	2.52	3.94	0.05	0.02	0.15	0.032	0.07	6.8	6.4	0.12	156	6.90	0.02
ZZ53866		2.68	29.6	2.71	2.67	0.06	0.04	0.10	0.027	0.06	7.1	3.9	0.09	307	7.50	0.02
ZZ53867		2.42	30.5	2.52	2.63	0.05	0.06	0.09	0.028	0.06	6.8	5.0	0.13	188	5.09	0.02
ZZ53868		2.90	34.1	2.33	2.92	0.05	0.06	0.15	0.030	0.05	7.0	4.4	0.08	129	11.30	0.03
ZZ53869		1.41	44.1	2.54	2.50	0.05	0.08	0.20	0.029	0.06	6.7	4.2	0.11	121	8.92	0.03
ZZ53870		2.83	40.6	2.37	4.00	0.06	0.06	0.22	0.038	0.06	8.2	6.7	0.16	173	14.20	0.03
ZZ53871		7.76	116.5	4.45	2.30	0.09	0.03	4.62	0.063	0.14	5.7	3.3	0.26	179	17.70	0.02
ZZ53872		5.93	123.5	4.74	2.75	0.08	0.02	0.95	0.064	0.16	6.9	5.1	0.10	212	20.7	0.02
ZZ53873		4.57	53.1	3.33	3.23	0.06	0.02	0.37	0.039	0.11	7.3	5.7	0.13	269	10.55	0.02
ZZ53874		9.16	41.6	4.08	4.54	<0.05	<0.02	0.15	0.047	0.11	8.1	8.9	0.21	492	6.04	0.01
ZZ53875		11.40	62.5	3.31	1.94	0.05	0.02	0.16	0.040	0.13	5.5	2.1	0.05	294	6.47	0.01
ZZ53876		8.54	60.5	3.49	2.38	0.07	0.02	0.24	0.040	0.13	10.5	6.8	0.13	596	5.06	0.01
ZZ53877		12.30	61.8	3.32	2.00	0.05	0.02	0.15	0.039	0.12	7.9	1.4	0.04	539	6.66	0.01
ZZ53878		14.05	62.5	3.97	2.68	0.07	0.02	0.17	0.041	0.12	8.0	3.2	0.07	361	6.16	0.01
ZZ53879		4.56	35.2	2.57	3.16	<0.05	0.02	0.15	0.035	0.10	5.5	3.1	0.05	116	5.38	0.01
ZZ53880		5.42	36.5	3.53	4.11	0.05	0.04	0.49	0.039	0.10	15.9	10.0	0.20	512	6.89	0.01



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**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53841		0.29	39.8	1350	35.5	17.3	<0.001	0.06	1.73	1.6	1.1	0.5	19.3	<0.01	0.02	0.5
ZZ53842		0.36	26.5	1150	29.8	15.2	<0.001	0.04	1.85	2.7	1.1	0.6	17.9	<0.01	0.05	1.2
ZZ53843		0.38	30.7	1210	44.2	13.0	0.001	0.05	1.98	3.4	1.2	0.6	26.6	<0.01	0.05	1.7
ZZ53844		0.58	41.6	840	31.7	11.4	<0.001	0.04	1.59	4.5	1.4	0.6	24.6	<0.01	0.01	1.9
ZZ53845		0.39	27.4	1610	25.7	17.0	<0.001	0.07	2.20	3.0	0.9	0.7	17.8	<0.01	0.04	1.2
ZZ53846		0.22	22.7	1950	14.9	17.0	<0.001	0.07	1.75	0.7	0.9	0.6	12.5	<0.01	0.04	0.2
ZZ53847		0.57	31.2	1010	22.5	10.1	0.001	0.03	1.60	2.4	1.2	0.6	17.6	<0.01	0.05	0.7
ZZ53848		0.29	45.5	840	15.7	16.7	<0.001	0.04	9.74	2.1	2.7	0.6	29.4	<0.01	0.03	1.4
ZZ53849		0.50	21.3	820	22.3	15.7	<0.001	0.02	0.89	3.1	0.6	0.7	9.7	<0.01	0.02	2.3
ZZ53850		0.37	31.7	1150	15.2	8.4	<0.001	0.11	2.39	2.5	2.1	0.3	79.1	<0.01	0.03	0.7
ZZ53851		0.14	39.6	1220	10.8	6.0	0.001	0.15	2.89	1.5	2.4	0.2	117.0	<0.01	0.04	0.6
ZZ53852		0.26	47.8	810	15.9	8.1	0.001	0.06	2.75	3.7	2.4	0.4	43.4	<0.01	0.04	1.2
ZZ53853		0.32	35.2	1240	18.4	11.8	<0.001	0.09	1.92	3.1	2.1	0.6	43.5	<0.01	0.05	1.2
ZZ53854		0.20	42.3	1140	22.1	10.7	0.001	0.07	1.52	4.3	1.6	0.4	39.8	<0.01	0.06	1.7
ZZ53855		0.27	17.5	380	30.1	15.5	<0.001	0.01	0.37	3.2	0.3	0.8	8.6	<0.01	0.05	3.1
ZZ53856		0.24	26.5	370	33.8	14.1	<0.001	0.01	0.50	4.4	0.5	0.8	12.3	<0.01	0.05	3.7
ZZ53857		0.21	28.0	610	39.8	12.4	<0.001	0.03	0.29	4.1	0.2	0.8	17.4	<0.01	0.02	3.5
ZZ53858		0.28	34.8	510	48.0	12.7	<0.001	0.02	0.46	6.8	1.2	0.7	21.4	<0.01	0.03	5.0
ZZ53859		0.26	27.2	570	21.4	14.9	0.001	0.05	0.25	5.1	1.1	0.7	30.9	<0.01	0.04	3.4
ZZ53860		0.42	16.5	540	24.5	16.1	0.001	0.03	0.33	3.7	0.2	0.8	12.6	<0.01	0.02	3.0
ZZ53861		0.23	38.3	550	10.9	9.9	<0.001	0.02	0.90	2.2	2.7	0.7	34.9	<0.01	0.07	0.9
ZZ53862		0.08	40.1	1400	13.9	11.5	0.002	0.18	1.51	1.7	4.2	0.4	69.8	<0.01	0.20	0.3
ZZ53863		<0.05	47.4	590	9.3	8.7	0.002	0.40	1.17	4.5	4.4	0.4	83.9	<0.01	0.16	1.8
ZZ53864		0.09	19.9	1270	9.5	9.4	0.002	0.27	0.90	1.3	6.2	0.4	68.4	<0.01	0.15	0.4
ZZ53865		0.20	43.3	1640	12.5	11.0	0.001	0.09	1.77	1.8	3.7	0.6	85.0	<0.01	0.11	0.3
ZZ53866		0.15	57.8	2100	11.4	8.3	0.001	0.10	1.66	2.2	5.7	0.5	154.5	<0.01	0.08	0.4
ZZ53867		0.24	52.9	1380	10.9	7.3	0.001	0.09	1.41	3.2	4.3	0.4	129.0	<0.01	0.09	0.7
ZZ53868		0.14	51.5	1770	10.6	9.1	0.002	0.07	2.14	3.2	6.4	0.5	138.0	<0.01	0.09	0.8
ZZ53869		0.12	63.3	1670	11.2	6.8	0.002	0.08	2.09	4.1	5.5	0.4	165.5	<0.01	0.08	0.8
ZZ53870		0.23	55.0	1990	11.7	11.2	0.003	0.09	3.22	3.1	6.3	0.6	138.5	<0.01	0.08	0.8
ZZ53871		0.08	159.0	2120	211	12.2	0.006	0.22	9.89	8.7	9.5	0.7	271	<0.01	0.15	1.7
ZZ53872		0.09	133.0	2750	114.5	14.0	0.005	0.30	6.96	7.1	12.0	0.7	378	<0.01	0.12	0.8
ZZ53873		0.15	60.6	1740	31.0	12.6	0.001	0.17	3.29	1.9	4.8	0.5	86.6	<0.01	0.07	0.4
ZZ53874		0.27	35.7	1220	29.1	13.8	<0.001	0.15	2.66	1.6	2.5	0.6	48.9	<0.01	0.11	0.6
ZZ53875		0.10	44.7	1110	27.5	16.1	0.002	0.03	2.96	2.7	2.6	0.5	19.0	<0.01	0.08	1.6
ZZ53876		0.09	53.1	1290	27.6	15.3	0.001	0.02	2.67	3.6	3.1	0.4	27.0	<0.01	0.07	2.5
ZZ53877		0.08	53.7	1390	25.4	16.8	0.001	0.05	3.80	2.8	1.7	0.5	24.0	<0.01	0.08	1.7
ZZ53878		0.13	52.6	1370	23.1	19.7	0.001	0.12	3.00	3.1	3.5	0.5	28.8	<0.01	0.06	1.1
ZZ53879		0.17	35.0	1060	26.0	14.3	0.001	0.09	2.58	2.5	2.3	0.6	53.3	<0.01	0.07	1.2
ZZ53880		0.24	87.7	1600	98.9	18.9	0.001	0.06	3.65	2.7	2.7	0.6	45.5	<0.01	0.06	1.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53841		0.007	0.74	1.23	73	0.13	9.87	254	0.6
ZZ53842		0.005	0.39	0.91	61	0.11	3.79	181	1.3
ZZ53843		0.006	0.44	1.50	68	0.11	7.65	160	2.2
ZZ53844		0.014	0.39	2.11	62	0.18	16.50	171	1.9
ZZ53845		0.006	0.42	1.30	82	0.11	4.76	189	1.8
ZZ53846		0.005	0.32	1.19	61	0.12	3.03	120	<0.5
ZZ53847		0.017	0.24	1.79	63	0.22	12.30	131	<0.5
ZZ53848		0.007	0.65	2.33	235	0.10	5.99	386	2.0
ZZ53849		0.007	0.29	1.18	49	0.09	4.76	99	0.8
ZZ53850		0.009	0.29	2.39	52	0.07	22.2	211	1.2
ZZ53851		<0.005	0.33	2.08	55	<0.05	17.05	196	1.3
ZZ53852		0.008	0.39	1.71	83	0.09	22.3	226	1.4
ZZ53853		0.007	0.31	2.64	107	0.11	14.60	200	2.1
ZZ53854		0.006	0.33	1.55	58	0.08	15.65	296	2.4
ZZ53855		0.006	0.28	0.51	34	0.07	4.84	107	0.7
ZZ53856		0.006	0.24	0.56	40	0.05	5.70	94	1.6
ZZ53857		0.006	0.13	0.53	20	<0.05	7.63	131	1.3
ZZ53858		0.008	0.22	1.00	25	0.07	18.60	126	3.3
ZZ53859		0.006	0.16	1.21	23	<0.05	10.80	106	2.9
ZZ53860		0.007	0.25	0.70	35	0.08	6.56	97	1.1
ZZ53861		0.008	0.20	2.34	75	0.09	26.1	135	<0.5
ZZ53862		<0.005	0.25	2.16	52	0.11	9.71	172	<0.5
ZZ53863		<0.005	0.17	1.91	42	<0.05	17.85	126	2.1
ZZ53864		<0.005	0.22	1.79	49	<0.05	7.10	61	<0.5
ZZ53865		0.008	0.89	2.74	110	0.15	10.90	133	0.6
ZZ53866		0.007	0.41	3.52	82	0.11	23.6	196	1.2
ZZ53867		0.009	0.27	2.78	63	0.09	21.4	176	1.7
ZZ53868		0.005	0.38	3.80	104	0.14	24.0	194	2.1
ZZ53869		<0.005	0.28	3.87	105	0.12	32.4	234	2.9
ZZ53870		0.007	0.65	4.00	164	0.17	21.5	219	2.0
ZZ53871		<0.005	2.22	6.54	121	0.33	39.1	673	1.0
ZZ53872		0.005	0.91	6.38	114	0.26	33.7	717	0.8
ZZ53873		0.006	0.83	3.39	89	0.18	14.35	295	0.5
ZZ53874		0.017	0.85	1.33	83	0.16	6.08	199	<0.5
ZZ53875		<0.005	0.66	1.55	48	0.12	9.39	301	<0.5
ZZ53876		<0.005	0.70	1.90	51	0.06	18.65	301	<0.5
ZZ53877		<0.005	0.89	1.85	51	0.05	12.90	328	0.6
ZZ53878		0.005	1.05	2.03	65	0.08	14.90	306	0.8
ZZ53879		0.005	0.92	1.11	80	0.09	6.21	235	0.6
ZZ53880		0.008	2.92	3.06	185	0.16	24.6	712	1.0



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53881		0.10	NSS	0.34	0.62	131.5	<0.2	<10	320	0.51	0.11	4.01	5.38	18.45	5.2	8
ZZ53882		0.17	<0.001	0.16	1.83	67.8	<0.2	<10	470	1.25	0.27	0.94	0.44	41.1	10.7	23
ZZ53883		0.26	<0.001	0.14	1.63	45.5	<0.2	<10	250	0.68	0.22	0.18	0.29	22.3	8.3	28
ZZ53884		0.22	0.002	0.69	1.37	211	<0.2	<10	390	1.18	0.23	0.96	1.62	41.2	10.1	21
ZZ53885		0.24	0.001	0.34	1.44	76.6	<0.2	<10	410	0.93	0.24	1.01	0.96	36.5	9.9	21
ZZ53886		0.23	0.001	0.50	1.47	142.5	<0.2	<10	390	1.02	0.23	0.87	1.03	36.6	8.6	22
ZZ53887		0.28	<0.001	0.34	1.62	23.0	<0.2	<10	170	0.90	0.25	0.90	2.27	45.4	7.4	20
ZZ53888		0.14	0.001	0.64	1.14	28.5	<0.2	<10	220	0.85	0.19	1.29	1.56	59.3	7.4	17
ZZ53889		0.25	<0.001	0.11	1.43	14.4	<0.2	<10	220	0.58	0.27	0.74	0.33	19.55	7.0	18
ZZ53890		0.16	<0.001	0.12	1.65	17.4	<0.2	<10	140	1.10	0.24	0.76	1.50	39.7	12.6	19
ZZ53891		0.13	0.001	0.48	0.85	17.0	<0.2	<10	130	0.75	0.19	1.56	2.13	32.2	8.4	13
ZZ53892		0.27	<0.001	0.81	0.56	25.5	<0.2	<10	130	0.62	0.18	3.44	2.80	30.3	8.3	9
ZZ53893		0.27	0.003	0.99	0.50	12.1	<0.2	<10	200	0.94	0.20	1.76	1.53	25.1	9.2	9
ZZ53894		0.23	0.001	0.15	1.57	15.9	<0.2	<10	390	1.09	0.20	1.39	0.15	36.4	11.1	22
ZZ53895		0.26	0.007	0.71	0.91	25.2	<0.2	<10	210	0.96	0.16	1.63	3.43	39.2	8.9	19
ZZ53896		0.27	0.003	0.32	0.76	26.4	<0.2	<10	480	0.98	0.21	1.24	0.34	22.2	9.2	15
ZZ53897		0.19	0.001	0.49	1.22	24.6	<0.2	<10	200	1.15	0.21	1.07	1.50	63.6	9.1	16
ZZ53898		0.19	0.001	1.00	0.95	42.1	<0.2	<10	270	1.03	0.21	1.27	1.89	34.7	10.2	15
ZZ53899		0.14	<0.001	0.12	1.48	12.3	<0.2	<10	240	0.62	0.25	0.49	0.17	26.3	8.0	18
ZZ53900		0.26	<0.001	0.03	1.72	17.9	<0.2	<10	170	0.84	0.31	0.21	0.13	19.35	12.6	24
ZZ53901		0.17	<0.001	0.09	1.91	22.5	<0.2	<10	190	0.85	0.34	0.25	0.28	25.2	15.3	26
ZZ53902		0.21	0.001	0.04	1.70	20.4	<0.2	<10	130	0.77	0.31	0.06	0.28	21.0	14.6	24
ZZ53903		0.35	0.001	0.11	1.93	82.3	<0.2	<10	260	1.17	0.23	0.59	0.45	61.1	19.9	21
ZZ53904		0.20	<0.001	0.12	1.49	28.0	<0.2	<10	170	0.64	0.27	0.23	0.15	27.3	10.1	21
ZZ53905		0.22	<0.001	0.08	1.58	54.1	<0.2	<10	200	0.89	0.22	0.24	0.24	24.0	16.8	24
ZZ53906		0.25	0.002	0.40	1.26	108.5	<0.2	<10	250	1.23	0.28	1.04	0.97	37.1	13.3	22
ZZ53907		0.16	0.001	0.10	1.20	80.9	<0.2	<10	260	0.62	0.25	0.50	0.45	16.60	7.8	18
ZZ53908		0.24	0.003	0.61	1.22	1090	<0.2	<10	380	1.43	0.27	0.95	3.65	36.4	18.2	20
ZZ53909		0.19	0.010	1.02	0.81	900	<0.2	<10	470	1.23	0.24	1.23	6.42	25.2	11.4	19
ZZ53910		0.24	0.004	0.47	0.66	141.0	<0.2	<10	490	0.79	0.27	0.05	1.43	15.95	12.1	14
ZZ53911		0.31	0.004	0.38	0.95	150.5	<0.2	<10	120	0.32	0.26	0.03	0.45	16.85	5.8	17
ZZ53912		0.26	0.004	0.33	0.74	81.3	<0.2	<10	160	0.34	0.28	0.01	0.27	11.70	3.9	11
ZZ53913		0.29	0.009	1.18	0.62	84.1	<0.2	<10	410	0.79	0.31	0.02	0.51	11.50	9.9	11
ZZ53914		0.26	0.007	1.80	0.50	69.6	<0.2	<10	500	0.37	0.25	0.02	0.38	8.65	2.0	17
ZZ53915		0.20	0.011	21.5	0.57	45.8	<0.2	10	2590	0.74	0.16	4.93	7.61	4.94	6.4	77
ZZ53916		0.30	0.008	8.93	0.72	84.0	<0.2	10	1880	0.86	0.19	1.10	7.38	10.55	5.0	74
ZZ53917		0.33	0.007	4.46	0.45	37.4	<0.2	10	1490	0.70	0.20	1.08	3.69	7.52	5.3	32
ZZ53918		0.18	0.010	2.89	0.37	39.9	<0.2	10	1620	0.65	0.18	1.50	1.80	5.86	5.1	26
ZZ53919		0.26	0.009	5.65	0.39	59.2	<0.2	10	1400	0.76	0.20	1.31	2.37	6.55	7.2	33
ZZ53920		0.27	0.004	3.96	0.38	35.4	<0.2	10	1450	0.56	0.17	1.64	2.41	6.20	4.8	25



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**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53881		0.88	16.0	1.51	1.57	<0.05	0.04	0.15	0.021	0.05	12.9	3.5	0.09	406	2.39	0.02
ZZ53882		1.66	22.8	3.94	4.98	0.05	0.08	0.09	0.040	0.09	17.6	14.3	0.24	700	2.20	0.01
ZZ53883		1.42	16.6	3.45	5.36	<0.05	0.02	0.05	0.041	0.07	10.7	9.5	0.22	513	2.17	0.01
ZZ53884		1.05	25.4	3.36	3.57	0.10	0.06	0.12	0.039	0.08	31.4	9.0	0.23	408	2.86	0.01
ZZ53885		1.57	21.5	3.25	4.66	0.07	0.06	0.07	0.037	0.08	18.7	10.9	0.22	657	2.81	0.02
ZZ53886		1.73	22.7	3.07	3.89	0.06	0.07	0.11	0.033	0.10	20.0	12.8	0.27	327	1.94	0.01
ZZ53887		1.11	13.4	3.05	4.61	0.05	0.03	0.09	0.039	0.05	18.2	14.1	0.16	403	3.13	0.01
ZZ53888		0.97	15.0	2.36	2.99	0.06	0.02	0.11	0.032	0.05	25.6	6.7	0.11	509	3.14	0.01
ZZ53889		1.97	18.2	2.69	5.42	<0.05	<0.02	0.06	0.026	0.07	8.3	11.2	0.19	331	2.13	0.01
ZZ53890		0.89	27.7	3.32	4.25	<0.05	0.07	0.10	0.033	0.08	15.0	22.8	0.29	398	1.90	0.01
ZZ53891		0.45	19.5	2.59	2.14	0.05	0.04	0.09	0.025	0.08	18.8	8.6	0.21	319	2.96	0.01
ZZ53892		0.46	22.0	2.16	1.55	0.05	0.04	0.12	0.026	0.08	18.1	4.2	0.75	247	4.85	0.01
ZZ53893		1.11	45.4	2.53	1.36	0.06	0.05	0.23	0.035	0.10	17.3	3.4	0.22	119	3.40	0.01
ZZ53894		1.42	31.2	3.55	3.61	0.05	0.05	0.08	0.038	0.14	18.2	17.3	0.25	531	2.16	0.01
ZZ53895		0.58	21.3	3.06	2.47	0.07	0.03	0.10	0.033	0.07	23.1	8.0	0.18	668	4.42	0.01
ZZ53896		1.02	48.0	2.67	2.43	0.05	0.04	0.17	0.037	0.08	13.8	6.5	0.10	212	3.02	<0.01
ZZ53897		1.00	21.7	2.93	3.14	0.06	0.04	0.09	0.034	0.06	20.5	8.6	0.12	438	4.24	0.01
ZZ53898		0.76	30.3	3.27	2.65	0.06	0.07	0.13	0.032	0.07	21.0	8.8	0.20	524	2.82	0.01
ZZ53899		1.70	17.3	3.26	5.39	<0.05	0.03	0.06	0.032	0.05	7.7	20.3	0.20	372	1.84	<0.01
ZZ53900		1.84	26.7	4.07	5.83	<0.05	0.05	0.03	0.032	0.07	7.6	41.8	0.46	494	1.09	<0.01
ZZ53901		1.51	24.0	4.73	6.45	<0.05	0.04	0.06	0.043	0.06	9.5	20.2	0.25	980	2.03	0.01
ZZ53902		1.76	33.8	4.26	5.63	<0.05	0.03	0.05	0.033	0.07	8.0	32.3	0.43	540	1.20	<0.01
ZZ53903		1.53	32.2	4.12	6.33	0.07	0.05	0.06	0.049	0.08	27.3	27.5	0.51	820	1.60	<0.01
ZZ53904		1.85	22.3	3.61	5.95	<0.05	0.04	0.04	0.036	0.06	7.7	20.9	0.23	432	1.40	<0.01
ZZ53905		1.36	26.1	4.65	4.73	<0.05	0.08	0.05	0.047	0.07	8.6	15.4	0.22	493	1.93	<0.01
ZZ53906		0.79	33.4	3.58	3.47	0.06	0.06	0.11	0.036	0.07	22.3	14.4	0.38	525	3.46	0.01
ZZ53907		2.05	18.0	2.92	5.14	<0.05	<0.02	0.03	0.025	0.05	6.4	10.6	0.16	484	2.21	<0.01
ZZ53908		1.58	43.1	3.95	3.80	0.06	0.08	0.38	0.038	0.09	20.3	14.2	0.37	788	4.51	<0.01
ZZ53909		4.01	59.1	3.52	2.71	0.06	0.08	0.35	0.037	0.11	14.3	7.2	0.23	350	11.05	0.01
ZZ53910		16.70	44.5	3.51	2.52	<0.05	<0.02	0.14	0.037	0.11	6.5	3.9	0.08	435	5.38	<0.01
ZZ53911		8.36	26.6	2.62	5.18	<0.05	<0.02	0.11	0.028	0.07	7.3	4.9	0.11	156	3.69	<0.01
ZZ53912		6.24	28.9	2.02	3.31	<0.05	<0.02	0.11	0.028	0.09	4.8	2.9	0.05	58	4.25	<0.01
ZZ53913		15.70	95.9	3.48	2.59	<0.05	<0.02	0.13	0.050	0.13	4.3	2.5	0.06	161	8.06	<0.01
ZZ53914		16.55	38.4	3.28	2.40	0.05	0.02	0.33	0.052	0.33	3.6	1.9	0.05	151	10.60	0.01
ZZ53915		2.79	126.5	2.43	1.37	0.12	0.07	0.45	0.029	0.07	4.9	2.0	0.05	50	39.9	<0.01
ZZ53916		1.70	82.5	2.57	2.34	0.08	0.06	0.48	0.041	0.11	6.4	4.6	0.09	124	17.45	<0.01
ZZ53917		1.89	60.2	2.49	1.57	0.07	0.06	0.30	0.036	0.08	5.1	2.1	0.03	64	11.35	<0.01
ZZ53918		2.00	48.3	2.59	1.18	0.05	0.04	0.32	0.029	0.07	4.3	1.6	0.03	70	9.23	<0.01
ZZ53919		3.17	68.0	3.45	1.34	0.09	0.05	0.40	0.035	0.08	5.3	1.9	0.04	113	11.60	<0.01
ZZ53920		1.48	44.9	2.68	1.40	0.06	0.03	0.27	0.028	0.06	4.4	2.4	0.05	94	9.15	<0.01

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**CERTIFICATE OF ANALYSIS WH12182363**

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ53881	0.05	0.18	23.6	1280	15.9	6.4	0.001	0.22	1.53	0.9	1.2	0.2	166.5	<0.01	0.03	0.3
ZZ53882		0.24	34.0	1050	31.4	14.1	0.001	0.05	0.77	4.1	1.0	0.6	29.5	<0.01	0.06	2.3
ZZ53883		0.26	24.5	1860	15.2	15.7	<0.001	0.08	0.61	1.6	1.2	0.6	16.5	<0.01	0.03	0.5
ZZ53884		0.23	44.5	950	19.8	11.0	0.001	0.05	1.37	4.2	2.3	0.4	26.5	<0.01	0.04	1.8
ZZ53885		0.30	31.8	1450	41.3	15.2	<0.001	0.08	1.31	2.9	1.1	0.6	31.6	<0.01	0.04	1.4
ZZ53886		0.31	40.8	1220	17.4	17.6	0.001	0.07	1.10	3.2	1.4	0.5	24.5	<0.01	0.04	1.5
ZZ53887		0.90	24.0	640	18.7	9.8	0.001	0.05	1.76	2.5	1.1	0.5	27.5	<0.01	0.03	1.4
ZZ53888		0.48	25.7	1080	14.6	9.7	0.001	0.09	1.61	1.8	1.2	0.3	105.0	<0.01	0.03	0.6
ZZ53889		0.50	16.8	1140	13.2	10.9	0.001	0.06	0.92	1.0	<0.2	0.6	52.0	<0.01	0.05	0.3
ZZ53890		0.40	32.6	710	15.6	8.5	<0.001	0.07	0.85	4.2	0.7	0.4	32.0	<0.01	0.05	1.8
ZZ53891		0.28	29.1	970	13.3	5.2	0.001	0.09	1.86	2.3	1.4	0.3	65.4	<0.01	<0.01	0.8
ZZ53892		0.26	39.1	1000	13.3	4.9	0.001	0.09	2.64	2.2	1.7	0.2	104.5	<0.01	0.02	0.9
ZZ53893		0.17	59.9	1540	12.4	7.6	0.001	0.09	1.97	4.1	2.6	0.3	46.9	<0.01	0.04	1.4
ZZ53894		0.26	44.5	5020	15.7	9.2	0.001	0.11	0.65	4.6	1.3	0.4	56.7	<0.01	0.04	1.0
ZZ53895		0.28	36.3	1180	14.9	6.5	0.001	0.11	3.66	2.2	2.5	0.4	44.6	<0.01	0.06	0.5
ZZ53896		0.26	73.4	1620	16.1	6.3	0.003	0.05	1.31	4.5	2.8	0.4	28.8	<0.01	0.06	1.5
ZZ53897		0.42	41.1	1470	15.0	10.4	0.001	0.07	1.70	2.1	1.8	0.4	30.4	<0.01	0.05	0.9
ZZ53898		0.30	40.3	1270	19.2	6.9	<0.001	0.09	1.66	3.7	1.7	0.3	30.0	<0.01	0.04	1.3
ZZ53899		0.52	19.2	1200	16.3	8.8	0.001	0.06	0.81	1.7	0.9	0.5	15.9	<0.01	0.06	0.8
ZZ53900		0.60	27.6	630	20.3	10.6	<0.001	0.03	0.59	2.6	<0.2	0.5	12.6	<0.01	0.06	1.7
ZZ53901		0.98	25.8	1120	31.1	10.1	0.001	0.04	0.88	3.7	0.6	0.6	17.4	<0.01	0.05	1.6
ZZ53902		0.48	27.1	960	23.6	9.9	0.001	0.05	0.64	2.1	0.6	0.5	7.7	<0.01	0.06	0.9
ZZ53903		0.48	37.6	1310	15.2	9.0	0.001	0.03	0.78	5.2	0.9	0.6	25.2	<0.01	0.05	2.2
ZZ53904		0.49	22.6	1080	14.2	11.2	<0.001	0.04	0.58	2.4	0.4	0.6	17.1	<0.01	0.05	1.1
ZZ53905		0.39	34.1	950	22.5	11.6	0.001	0.05	0.66	3.3	0.7	0.6	13.6	<0.01	0.03	1.9
ZZ53906		0.30	52.0	1160	22.7	8.3	0.001	0.05	1.22	4.5	2.3	0.4	27.3	<0.01	0.04	1.9
ZZ53907		0.38	20.8	1390	21.6	11.1	<0.001	0.08	0.78	0.6	0.5	0.6	18.5	<0.01	0.04	<0.2
ZZ53908		0.26	84.2	740	37.8	9.2	0.002	0.05	2.00	6.2	2.5	0.5	39.8	<0.01	0.06	2.9
ZZ53909		0.27	112.0	1170	40.7	9.4	0.002	0.13	5.01	4.7	4.2	0.5	77.6	<0.01	0.06	2.2
ZZ53910		0.22	53.2	1020	27.7	17.1	0.001	0.12	2.33	2.6	2.3	0.5	39.8	<0.01	0.05	1.0
ZZ53911		0.49	26.7	740	19.8	16.6	0.001	0.05	1.52	0.8	1.2	0.7	16.0	<0.01	0.07	0.2
ZZ53912		0.41	21.1	390	17.6	20.8	<0.001	0.08	1.53	1.7	1.5	0.6	18.3	<0.01	0.08	1.9
ZZ53913		0.29	70.3	940	24.7	20.7	0.002	0.17	4.27	3.5	4.8	0.6	42.0	<0.01	0.13	1.6
ZZ53914		0.22	14.5	1220	18.4	20.8	0.005	0.68	4.72	2.5	8.0	0.6	70.8	<0.01	0.13	1.4
ZZ53915		0.12	255	2860	9.5	6.9	0.008	0.14	5.84	4.8	23.9	0.5	430	<0.01	0.13	1.0
ZZ53916		0.20	109.0	2300	22.5	8.5	0.011	0.21	3.95	5.1	13.5	0.5	215	<0.01	0.10	0.8
ZZ53917		0.13	104.5	1810	12.2	6.5	0.006	0.13	2.69	5.5	10.6	0.5	197.5	<0.01	0.13	1.3
ZZ53918		0.13	89.8	1430	10.9	5.6	0.003	0.16	2.57	4.5	9.5	0.4	222	<0.01	0.09	0.5
ZZ53919		0.14	127.0	1750	13.9	7.8	0.008	0.17	2.85	7.0	16.2	0.5	341	<0.01	0.10	1.0
ZZ53920		0.16	81.5	1530	10.8	5.9	0.004	0.17	2.24	4.2	8.5	0.4	259	<0.01	0.09	0.6

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53881		0.006	0.72	2.41	42	<0.05	13.80	305	1.0
ZZ53882		<0.005	0.48	1.40	54	0.09	14.15	157	1.7
ZZ53883		0.008	0.30	1.13	48	0.13	6.11	113	0.5
ZZ53884		0.006	0.65	1.25	67	0.08	30.1	249	1.5
ZZ53885		0.008	0.39	1.35	62	0.09	14.90	177	1.5
ZZ53886		0.009	0.58	1.41	52	0.09	17.90	230	1.6
ZZ53887		0.014	0.28	1.55	65	0.21	12.95	100	0.9
ZZ53888		0.008	0.19	1.98	53	0.10	19.90	151	0.8
ZZ53889		0.009	0.28	1.01	59	0.16	4.81	74	<0.5
ZZ53890		0.005	0.21	0.98	41	0.08	14.60	98	1.9
ZZ53891		0.007	0.22	1.09	48	0.08	18.55	160	1.2
ZZ53892		0.006	0.33	1.52	46	0.09	18.75	211	1.2
ZZ53893		<0.005	0.17	1.88	38	<0.05	21.6	254	1.6
ZZ53894		<0.005	0.17	2.37	37	0.05	19.20	102	1.1
ZZ53895		0.005	0.20	2.15	67	0.06	22.6	246	1.0
ZZ53896		0.005	0.13	1.96	37	0.05	15.90	178	1.1
ZZ53897		0.007	0.22	1.72	53	0.10	18.95	161	0.9
ZZ53898		<0.005	0.24	1.32	46	0.10	21.9	204	1.7
ZZ53899		0.008	0.18	0.68	46	0.11	4.96	65	0.9
ZZ53900		0.009	0.15	0.52	38	0.11	3.44	76	1.7
ZZ53901		0.016	0.21	0.84	58	0.23	5.76	98	1.0
ZZ53902		0.009	0.16	0.61	40	0.10	4.05	96	0.8
ZZ53903		0.007	0.25	1.03	57	0.12	21.8	152	1.3
ZZ53904		0.006	0.19	0.55	46	0.15	3.59	81	1.2
ZZ53905		<0.005	0.31	0.74	48	0.06	4.02	139	2.0
ZZ53906		0.005	0.64	1.39	61	0.07	23.5	231	1.5
ZZ53907		0.008	0.54	0.67	63	0.11	3.56	125	<0.5
ZZ53908		<0.005	2.39	1.53	107	0.07	27.9	563	2.3
ZZ53909		<0.005	1.32	1.96	156	0.22	28.5	824	2.2
ZZ53910		0.005	0.99	1.46	69	0.07	11.45	326	<0.5
ZZ53911		0.012	0.57	0.79	70	0.17	3.73	137	<0.5
ZZ53912		0.007	0.43	0.70	62	0.08	3.11	121	0.5
ZZ53913		0.006	0.61	2.33	60	0.08	11.70	277	<0.5
ZZ53914		0.005	1.10	3.03	77	0.06	4.20	101	0.6
ZZ53915		<0.005	0.48	10.00	123	0.36	57.0	923	3.2
ZZ53916		<0.005	0.44	7.27	132	0.20	37.9	444	2.2
ZZ53917		<0.005	0.38	4.48	74	0.11	34.9	353	2.7
ZZ53918		<0.005	0.37	3.12	51	0.12	34.1	281	2.0
ZZ53919		<0.005	0.51	4.18	66	0.11	49.2	358	3.0
ZZ53920		<0.005	0.38	3.39	55	0.09	34.7	244	2.0



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**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53921		0.24	0.005	1.69	0.86	67.3	<0.2	<10	1450	0.75	0.21	0.81	0.87	14.75	8.3	26
ZZ53922		0.29	0.002	1.35	0.76	42.1	<0.2	<10	1270	0.70	0.18	0.08	0.65	8.90	4.1	23
ZZ53923		0.39	0.002	2.54	0.41	25.7	<0.2	10	1420	0.51	0.17	0.30	0.81	5.02	3.6	25
ZZ53924		0.31	0.003	1.89	0.66	18.7	<0.2	10	1030	0.48	0.17	1.89	0.62	8.53	3.9	27
ZZ53925		0.29	0.002	3.07	0.56	22.3	<0.2	10	1410	0.54	0.18	0.50	0.80	9.31	4.4	32
ZZ53926		0.21	0.003	2.71	0.57	32.6	<0.2	10	740	0.58	0.17	1.07	0.72	11.40	8.4	48
ZZ53927		0.29	0.009	1.13	0.81	18.7	<0.2	<10	1020	0.51	0.17	1.66	0.37	9.16	3.1	19
ZZ53928		0.23	0.002	0.61	1.68	16.5	<0.2	<10	350	0.60	0.25	0.17	0.35	35.2	10.1	31
ZZ53929		0.15	<0.001	0.41	0.67	73.1	<0.2	10	520	0.44	0.14	3.01	1.75	21.7	7.4	29
ZZ53930		0.12	0.001	0.44	0.91	32.8	<0.2	<10	690	0.36	0.18	1.98	0.59	11.95	4.2	17
ZZ53931		0.19	<0.001	0.33	0.79	22.2	<0.2	<10	240	0.38	0.23	1.62	0.69	15.80	6.3	18
ZZ53932		0.17	<0.001	0.20	0.51	9.5	<0.2	<10	140	0.12	0.23	0.03	0.18	12.05	3.5	13
ZZ53933		0.38	0.002	0.78	1.43	23.0	<0.2	<10	820	0.61	0.21	0.47	0.33	25.2	7.8	29
ZZ53934		0.34	0.003	1.37	0.53	12.7	<0.2	<10	220	0.26	0.12	0.03	0.20	10.55	2.1	25
ZZ53935		0.26	0.006	3.21	0.96	52.1	<0.2	10	1450	0.55	0.20	1.02	0.54	10.30	4.1	37
ZZ53936		0.30	0.004	3.52	0.50	57.1	<0.2	10	1220	0.49	0.16	2.26	1.08	8.99	3.9	35
ZZ53937		0.17	0.006	2.01	1.09	131.0	<0.2	10	2130	0.74	0.20	0.54	1.25	11.35	7.0	34
ZZ53938		0.24	0.004	1.54	1.17	125.5	<0.2	10	2200	0.79	0.20	0.80	0.43	14.10	6.3	30
ZZ53939		0.23	0.007	4.43	0.68	60.0	<0.2	10	1950	0.77	0.16	1.56	2.27	9.85	6.4	37
ZZ53940		0.25	0.005	2.38	0.71	122.0	<0.2	10	1930	0.69	0.16	1.05	2.24	11.20	7.3	30
ZZ53941		0.20	0.015	34.4	0.60	109.0	<0.2	10	2360	0.82	0.22	2.77	121.0	13.35	4.8	122
ZZ53942		0.28	0.005	1.47	1.03	253	<0.2	<10	2200	0.73	0.20	0.98	1.12	13.00	7.7	31
ZZ53943		0.30	0.011	41.8	0.99	124.5	<0.2	30	2960	0.98	0.20	4.45	158.0	14.35	4.2	390
ZZ53944		0.33	0.004	3.07	0.39	254	<0.2	<10	160	0.27	0.32	0.03	0.45	8.08	1.0	26
ZZ53945		0.24	0.006	1.53	0.38	48.8	<0.2	<10	540	0.40	0.24	0.03	0.42	9.74	2.7	10
ZZ53946		0.29	0.004	1.15	0.54	89.6	<0.2	<10	490	0.34	0.33	0.03	0.66	13.95	5.6	13
ZZ53947		0.21	0.001	0.40	1.42	191.0	<0.2	<10	270	0.93	0.27	0.79	4.54	31.5	10.5	25
ZZ53948		0.21	<0.001	2.16	1.15	510	<0.2	<10	260	0.95	0.19	1.95	3.50	29.5	8.5	20
ZZ53949		0.10	NSS	0.55	0.67	181.0	<0.2	<10	120	0.69	0.14	3.38	6.35	31.1	6.6	12
ZZ53950		0.29	<0.001	0.59	0.29	4	<0.2	<10	100	0.40	0.12	11.65	0.96	30.5	8.5	8
ZZ53951		0.32	0.001	0.45	1.49	106.5	<0.2	<10	520	1.19	0.13	1.41	0.56	57.2	13.9	48
ZZ53952		0.25	<0.001	0.07	2.18	24.9	<0.2	<10	210	0.68	0.11	0.20	0.32	43.5	27.2	90
ZZ53953		0.26	0.022	0.10	1.80	18.7	<0.2	<10	340	0.99	0.16	0.47	0.30	56.2	17.4	16
ZZ53954		0.32	0.002	0.66	1.13	78.8	<0.2	<10	420	1.26	0.23	0.80	1.41	62.1	14.1	18
ZZ53955		0.25	0.001	0.07	1.71	57.7	<0.2	<10	210	0.86	0.19	0.43	0.26	38.6	14.4	38
ZZ53956		0.30	<0.001	0.04	1.68	39.1	<0.2	<10	180	0.71	0.22	0.10	0.29	29.9	12.9	33
ZZ53957		0.30	<0.001	0.11	1.38	71.0	<0.2	<10	320	1.16	0.11	0.24	0.46	48.2	20.3	34
ZZ53958		0.28	0.001	0.15	1.86	45.6	<0.2	<10	400	1.55	0.15	0.51	0.38	69.5	15.3	36
ZZ53959		0.29	0.001	0.08	1.61	42.0	<0.2	<10	210	0.72	0.27	0.18	0.43	37.7	11.5	28
ZZ53960		0.35	0.001	0.64	1.30	228	<0.2	<10	330	1.00	0.27	0.93	1.65	32.8	10.7	23

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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53921		2.00	37.6	3.00	2.82	0.05	0.05	0.18	0.033	0.07	7.4	7.9	0.18	243	6.77	<0.01
ZZ53922		1.85	29.5	2.56	2.55	<0.05	0.02	0.12	0.026	0.06	4.4	3.8	0.07	134	5.43	<0.01
ZZ53923		2.00	65.1	2.40	1.51	0.08	0.04	0.14	0.035	0.10	3.6	1.7	0.03	45	6.99	<0.01
ZZ53924		1.38	42.7	1.95	2.20	0.05	0.04	0.17	0.028	0.07	5.2	3.8	0.10	169	3.28	<0.01
ZZ53925		2.88	66.0	2.32	1.69	0.07	0.04	0.16	0.032	0.07	5.6	2.4	0.05	112	4.37	<0.01
ZZ53926		3.50	60.1	2.86	2.33	0.10	0.03	0.14	0.035	0.08	6.4	2.4	0.04	272	4.37	<0.01
ZZ53927		1.99	31.4	1.45	2.89	<0.05	0.04	0.13	0.022	0.05	5.1	3.3	0.08	200	1.74	<0.01
ZZ53928		3.44	29.2	3.01	4.85	0.07	0.05	0.08	0.032	0.06	14.8	15.6	0.43	291	1.98	0.01
ZZ53929		0.70	18.1	2.27	2.12	0.09	0.06	0.13	0.032	0.05	29.8	6.1	0.14	469	1.84	0.01
ZZ53930		2.46	17.2	1.61	3.57	0.05	0.05	0.08	0.027	0.05	9.4	5.0	0.13	214	1.31	0.01
ZZ53931		2.41	19.0	1.86	2.96	0.05	0.02	0.08	0.026	0.06	9.2	6.7	0.15	312	1.25	0.01
ZZ53932		6.34	24.0	1.81	3.84	<0.05	<0.02	0.05	0.022	0.06	6.1	1.2	0.03	44	2.13	0.01
ZZ53933		3.65	25.4	2.61	4.81	0.07	0.04	0.09	0.030	0.06	12.1	12.0	0.36	330	2.68	0.01
ZZ53934		6.57	31.1	1.36	3.02	<0.05	<0.02	0.08	0.018	0.06	5.9	1.0	0.03	23	3.30	<0.01
ZZ53935		4.11	45.2	2.08	2.91	0.07	0.07	0.33	0.034	0.08	6.2	4.5	0.11	221	2.94	<0.01
ZZ53936		4.01	60.9	2.48	1.50	0.09	0.08	0.40	0.034	0.10	7.3	1.7	0.05	106	4.88	0.01
ZZ53937		2.35	46.3	2.99	3.51	0.08	0.07	0.18	0.041	0.13	6.0	5.8	0.11	210	9.94	<0.01
ZZ53938		1.52	43.1	2.95	3.40	0.08	0.10	0.23	0.038	0.10	7.5	7.0	0.14	208	6.81	<0.01
ZZ53939		1.49	48.3	2.98	1.82	0.09	0.10	0.40	0.039	0.08	6.3	3.8	0.06	141	9.96	<0.01
ZZ53940		1.58	35.6	2.63	1.79	0.08	0.07	0.36	0.037	0.06	6.6	3.5	0.05	162	6.74	<0.01
ZZ53941		5.42	190.5	2.81	2.39	0.26	0.11	0.66	0.045	0.13	18.8	2.7	0.04	68	77.0	<0.01
ZZ53942		1.89	43.1	2.92	3.22	0.08	0.08	0.29	0.039	0.09	6.4	6.3	0.13	425	6.00	<0.01
ZZ53943		4.06	221	2.67	3.67	0.42	0.13	0.88	0.047	0.16	22.5	5.3	0.16	47	117.5	0.01
ZZ53944		7.00	35.9	5.85	4.61	0.12	<0.02	0.21	0.112	0.49	3.6	1.5	0.02	15	28.4	0.02
ZZ53945		6.77	50.1	3.36	1.49	0.09	<0.02	0.23	0.055	0.27	3.7	1.0	0.02	30	7.75	0.01
ZZ53946		7.07	52.4	3.95	2.95	0.08	<0.02	0.12	0.056	0.31	5.9	1.6	0.04	112	7.93	0.01
ZZ53947		1.27	29.3	4.09	4.49	0.09	0.08	0.13	0.039	0.10	18.0	13.4	0.32	608	3.61	0.01
ZZ53948		1.35	20.3	3.08	3.23	0.06	0.07	0.49	0.034	0.09	14.2	6.7	0.17	404	3.45	0.01
ZZ53949		1.07	15.9	2.03	1.69	0.06	0.05	0.17	0.024	0.06	20.1	4.0	0.21	213	2.42	0.01
ZZ53950		3.00	23.9	1.94	0.79	0.06	0.09	0.07	0.025	0.16	17.3	1.6	2.72	205	2.10	0.01
ZZ53951		1.39	27.6	4.50	3.96	0.11	0.09	0.09	0.059	0.11	27.3	10.5	0.47	458	2.92	0.01
ZZ53952		2.09	20.4	7.41	4.94	0.11	0.06	0.04	0.060	0.09	11.1	29.3	0.30	1220	1.68	0.01
ZZ53953		1.07	21.8	5.07	5.01	0.10	0.08	0.12	0.054	0.11	21.9	13.4	0.25	558	2.81	0.01
ZZ53954		0.56	37.5	3.37	2.94	0.10	0.08	0.09	0.042	0.12	36.8	8.0	0.16	436	3.59	0.01
ZZ53955		2.60	24.4	5.24	4.62	0.08	0.06	0.04	0.056	0.08	11.7	14.8	0.19	537	2.45	0.01
ZZ53956		2.38	20.2	4.42	5.51	0.08	0.05	0.02	0.047	0.09	9.5	17.7	0.27	733	1.83	0.01
ZZ53957		1.74	29.0	6.11	3.05	0.11	0.05	0.07	0.061	0.08	18.7	7.8	0.16	629	2.62	0.01
ZZ53958		2.06	19.0	5.25	4.88	0.11	0.07	0.05	0.059	0.08	25.3	15.2	0.28	1160	1.53	0.01
ZZ53959		1.27	20.8	3.35	4.84	<0.05	<0.02	0.07	0.033	0.05	16.7	15.7	0.39	601	1.47	0.01
ZZ53960		0.94	31.4	3.21	3.71	0.06	0.05	0.12	0.043	0.09	21.9	13.7	0.29	365	3.23	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53921		0.42	76.3	1380	16.3	8.0	0.003	0.12	1.85	5.0	4.6	0.5	118.5	<0.01	0.07	1.1
ZZ53922		0.28	39.1	1360	11.6	8.5	0.002	0.12	1.14	1.7	3.8	0.4	77.7	<0.01	0.09	0.4
ZZ53923		0.08	74.7	1180	10.7	9.9	0.002	0.21	1.43	4.0	6.2	0.4	111.5	0.01	0.20	0.9
ZZ53924		0.31	47.5	1550	10.5	8.5	0.002	0.17	1.14	2.3	5.3	0.4	86.5	0.01	0.09	0.5
ZZ53925		0.12	67.0	1460	10.3	11.6	0.002	0.06	1.11	3.7	5.4	0.4	55.2	0.01	0.09	1.2
ZZ53926		0.18	97.8	3220	9.8	11.8	0.002	0.11	1.50	3.9	8.2	0.5	172.5	<0.01	0.10	1.1
ZZ53927		0.37	25.6	1650	9.4	9.0	0.001	0.18	0.77	1.4	2.6	0.4	65.2	0.01	0.06	0.3
ZZ53928		1.02	40.1	810	14.6	12.8	0.001	0.04	0.92	3.6	1.3	0.6	23.3	0.01	0.06	2.6
ZZ53929		0.31	31.6	1370	11.7	6.1	0.001	0.17	0.70	1.4	2.4	0.3	44.5	0.01	0.09	0.3
ZZ53930		0.58	19.3	1460	9.9	9.3	0.001	0.21	0.61	1.7	1.7	0.4	40.6	0.01	0.05	0.3
ZZ53931		0.48	19.5	990	13.7	10.6	0.001	0.10	0.82	1.6	1.3	0.5	51.9	0.01	0.07	0.4
ZZ53932		0.54	25.7	620	9.3	13.3	<0.001	0.08	1.08	1.5	0.9	0.7	9.2	<0.01	0.08	0.2
ZZ53933		0.63	36.8	1030	13.0	12.3	0.001	0.07	0.91	3.0	1.8	0.5	36.5	0.01	0.05	1.2
ZZ53934		0.14	25.4	960	7.2	11.1	<0.001	0.06	0.65	0.5	2.5	0.7	11.1	<0.01	0.05	<0.2
ZZ53935		0.27	41.7	2040	10.6	12.8	0.003	0.13	1.07	3.1	6.0	0.5	66.2	0.01	0.08	0.9
ZZ53936		0.19	65.2	2510	10.5	12.8	0.003	0.29	1.53	3.9	9.4	0.3	156.5	0.01	0.13	0.6
ZZ53937		0.25	72.2	1400	18.7	13.8	0.002	0.20	2.35	3.9	8.0	0.6	120.0	0.01	0.11	1.1
ZZ53938		0.23	58.9	1230	18.1	11.5	0.002	0.16	1.51	4.2	5.2	0.6	117.0	0.01	0.08	1.2
ZZ53939		0.16	94.1	1630	12.9	7.2	0.002	0.16	2.35	5.6	7.6	0.5	240	0.01	0.09	1.3
ZZ53940		0.19	79.9	1310	13.9	6.5	0.003	0.11	1.88	4.1	8.3	0.4	142.5	0.01	0.07	0.8
ZZ53941		0.12	247	4700	16.0	10.7	0.006	0.14	32.0	7.6	40.6	0.7	396	0.02	0.20	1.9
ZZ53942		0.26	66.9	1450	21.6	9.6	0.004	0.14	1.82	3.9	6.4	0.6	128.0	0.01	0.08	0.8
ZZ53943		0.12	436	6300	15.6	17.4	0.021	0.18	38.2	7.3	68.7	0.6	455	0.02	0.29	1.4
ZZ53944		0.23	14.4	1780	26.3	39.8	0.001	1.25	10.25	2.1	10.6	1.0	304	<0.01	0.31	3.0
ZZ53945		0.11	22.2	950	18.8	22.8	0.003	0.59	4.19	2.4	5.5	0.4	69.1	<0.01	0.13	2.7
ZZ53946		0.26	31.7	1090	28.9	27.8	<0.001	0.59	2.83	2.1	3.8	0.7	60.4	<0.01	0.12	1.8
ZZ53947		0.43	51.2	1340	52.8	14.2	<0.001	0.08	1.28	4.1	1.2	0.5	29.3	0.01	0.05	1.7
ZZ53948		0.33	56.1	1670	351	12.3	0.001	0.15	2.14	2.5	1.7	0.4	39.4	0.01	0.04	1.1
ZZ53949		0.33	38.5	1360	26.3	7.2	<0.001	0.19	1.45	2.0	1.8	0.2	60.0	0.01	0.03	0.7
ZZ53950		0.12	38.8	880	9.5	9.7	0.001	0.04	0.75	4.6	1.2	0.2	138.5	0.01	0.02	5.4
ZZ53951		0.25	65.8	960	13.0	10.8	0.001	0.05	1.06	9.4	1.5	0.5	32.0	0.01	0.04	4.7
ZZ53952		0.34	66.0	1100	9.4	11.6	<0.001	0.05	0.28	9.2	0.5	0.5	12.4	0.01	0.03	2.3
ZZ53953		0.46	24.3	1840	12.7	10.6	0.001	0.10	0.51	5.3	0.9	0.8	36.8	0.01	0.03	1.8
ZZ53954		0.18	66.6	1340	18.0	13.0	0.001	0.04	1.25	5.6	2.0	0.4	42.6	0.01	0.04	3.9
ZZ53955		0.46	52.8	1290	19.0	12.1	<0.001	0.07	0.62	3.9	0.6	0.5	22.2	0.01	0.05	1.4
ZZ53956		0.41	31.6	1490	15.4	14.0	<0.001	0.06	0.62	2.4	0.5	0.7	12.5	<0.01	0.04	1.2
ZZ53957		0.24	86.6	760	15.6	10.2	<0.001	0.06	0.63	7.6	0.7	0.5	23.7	0.01	0.03	3.5
ZZ53958		0.36	44.0	1000	14.9	12.2	0.001	0.05	0.52	7.6	0.6	0.7	25.2	0.01	0.03	3.3
ZZ53959		0.47	31.6	1050	17.9	9.8	<0.001	0.03	0.85	2.0	0.6	0.6	13.5	<0.01	0.02	0.7
ZZ53960		0.40	63.5	1250	15.1	12.1	0.002	0.09	1.73	3.5	2.6	0.4	28.8	<0.01	0.03	1.4

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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53921		0.009	0.39	3.89	64	0.15	25.5	262	1.8
ZZ53922		0.006	0.35	2.44	60	0.14	17.95	128	0.6
ZZ53923		<0.005	0.18	3.45	59	0.07	26.3	214	0.5
ZZ53924		0.007	0.16	4.77	50	0.14	15.20	140	1.3
ZZ53925		<0.005	0.19	3.17	60	0.07	21.6	211	0.8
ZZ53926		0.006	0.34	2.96	73	0.07	14.85	241	0.8
ZZ53927		0.008	0.18	2.44	45	0.12	15.25	68	0.9
ZZ53928		0.033	0.22	1.43	58	0.26	9.48	111	0.9
ZZ53929		0.007	0.25	1.21	34	0.15	50.3	145	0.5
ZZ53930		0.014	0.21	1.41	40	0.10	13.65	67	1.2
ZZ53931		0.016	0.16	0.95	37	0.17	11.10	85	0.6
ZZ53932		0.017	0.16	0.80	53	0.17	3.00	92	<0.5
ZZ53933		0.020	0.31	2.07	58	0.29	12.15	108	1.0
ZZ53934		0.005	0.27	1.52	52	0.10	5.19	82	<0.5
ZZ53935		0.005	0.33	3.52	66	0.10	17.90	137	2.3
ZZ53936		<0.005	0.31	5.25	53	0.08	32.0	185	3.0
ZZ53937		<0.005	0.64	2.35	98	0.14	16.40	280	1.9
ZZ53938		<0.005	0.41	2.43	76	0.11	18.80	210	2.8
ZZ53939		<0.005	0.50	4.28	77	0.17	37.4	293	2.9
ZZ53940		<0.005	0.40	3.51	74	0.16	29.3	326	1.6
ZZ53941		<0.005	1.36	22.3	363	0.51	89.6	1640	3.0
ZZ53942		0.005	0.59	2.80	89	0.14	20.1	253	2.0
ZZ53943		<0.005	3.28	24.3	1170	0.93	97.5	3460	3.2
ZZ53944		<0.005	2.43	1.40	206	0.11	3.85	165	<0.5
ZZ53945		<0.005	0.73	1.34	59	0.06	3.89	159	<0.5
ZZ53946		0.007	0.83	1.08	78	0.10	4.44	236	<0.5
ZZ53947		0.011	0.45	1.56	68	0.23	17.50	397	1.7
ZZ53948		0.005	0.82	1.37	82	0.17	14.10	530	1.5
ZZ53949		0.007	0.57	2.32	50	0.09	18.05	517	1.1
ZZ53950		<0.005	0.23	1.70	23	<0.05	16.75	107	4.0
ZZ53951		<0.005	0.49	1.12	63	<0.05	20.8	228	1.5
ZZ53952		<0.005	0.22	0.46	61	0.05	8.42	96	1.5
ZZ53953		0.005	0.16	1.09	49	0.11	17.25	118	1.4
ZZ53954		<0.005	0.38	1.57	53	0.11	31.0	260	1.3
ZZ53955		0.008	0.25	0.80	52	0.12	7.96	103	1.2
ZZ53956		0.008	0.23	0.62	47	0.10	4.38	111	1.4
ZZ53957		<0.005	0.24	0.63	34	<0.05	13.10	120	1.1
ZZ53958		<0.005	0.21	0.83	40	0.08	16.30	115	1.9
ZZ53959		0.021	0.18	0.99	47	0.30	7.33	121	<0.5
ZZ53960		0.011	0.58	3.08	53	0.13	20.4	315	1.8



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**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53961		0.19	<0.001	0.42	1.85	245	<0.2	<10	240	1.51	0.25	0.51	0.90	64.5	10.8	23
ZZ53962		0.35	<0.001	0.06	1.08	10.2	<0.2	<10	590	1.83	0.27	0.53	0.17	64.4	13.3	8
ZZ53963		0.25	0.001	0.07	1.57	13.6	<0.2	<10	370	1.03	0.20	0.26	0.18	36.9	10.2	19
ZZ53964		0.30	<0.001	0.12	0.81	16.3	<0.2	<10	600	0.70	0.11	0.18	0.27	19.65	8.1	14
ZZ53965		0.25	<0.001	1.08	1.31	33.9	<0.2	<10	240	1.27	0.20	0.53	2.56	68.6	9.7	18
ZZ53966		0.20	<0.001	0.58	1.70	13.4	<0.2	<10	230	1.09	0.20	1.52	1.31	77.8	7.5	20
ZZ53967		0.29	0.001	0.09	1.76	21.1	<0.2	<10	230	0.79	0.28	0.44	0.27	32.8	11.1	28
ZZ53968		0.28	<0.001	0.07	1.58	32.1	<0.2	<10	190	0.74	0.29	0.05	0.30	25.7	13.1	24
ZZ53969		0.39	<0.001	0.06	2.00	26.2	<0.2	<10	200	1.07	0.28	0.11	0.34	39.7	13.5	31
ZZ53970		0.17	0.001	0.41	1.24	26.1	<0.2	<10	300	1.34	0.23	1.04	0.54	49.4	11.2	19
ZZ53971		0.17	<0.001	1.42	0.61	22.8	<0.2	<10	200	0.58	0.15	2.50	4.41	32.5	6.8	12
ZZ53972		0.23	<0.001	1.40	0.48	32.7	<0.2	<10	140	0.64	0.18	5.32	3.63	34.4	9.0	11
ZZ53973		0.30	0.001	0.75	0.93	30.0	<0.2	<10	290	0.91	0.17	2.85	3.00	39.2	8.2	14
ZZ53974		0.20	<0.001	0.20	1.67	58.8	<0.2	<10	330	1.05	0.13	1.41	1.06	43.8	16.6	24
ZZ53975		0.28	0.001	0.20	1.55	75.9	<0.2	<10	300	1.01	0.22	0.37	0.60	38.1	13.3	28
ZZ53976		0.24	0.001	0.13	1.52	68.4	<0.2	<10	230	0.84	0.24	0.69	1.04	33.2	12.5	27
ZZ53977		0.21	<0.001	0.34	1.39	140.0	<0.2	<10	290	0.96	0.22	0.89	2.53	33.0	10.0	23
ZZ53978		0.24	0.003	0.38	1.07	86.9	<0.2	<10	760	0.65	0.22	0.62	0.86	14.90	5.8	23
ZZ53979		0.22	0.002	1.14	0.75	42.2	<0.2	<10	1340	0.54	0.18	0.51	2.23	8.58	3.7	27
ZZ53980		0.30	0.004	0.32	1.23	64.5	<0.2	<10	480	0.67	0.21	0.31	0.82	24.7	10.4	28
ZZ53981		0.24	0.001	0.46	1.24	49.3	<0.2	<10	510	0.66	0.24	0.67	0.62	20.3	7.7	26
ZZ53982		0.22	<0.001	0.13	1.39	94.4	<0.2	<10	430	0.51	0.28	0.37	0.74	20.7	8.1	28
ZZ53983		0.27	0.002	0.38	1.26	36.5	<0.2	<10	650	0.59	0.23	0.57	0.37	15.35	5.2	25
ZZ53984		0.19	0.001	0.98	0.56	28.1	<0.2	<10	570	0.48	0.20	0.19	0.59	9.40	5.5	29
ZZ53985		0.26	0.001	0.85	0.52	41.3	<0.2	<10	370	0.42	0.18	0.07	0.44	6.85	4.4	18
ZZ53986		0.33	0.003	0.85	0.61	33.5	<0.2	<10	700	0.49	0.21	0.69	0.45	9.97	5.9	17
ZZ53987		0.21	0.001	0.53	0.70	72.5	<0.2	<10	560	0.57	0.24	1.60	0.91	13.25	7.3	21
ZZ53988		0.12	<0.001	0.18	0.72	8.4	<0.2	<10	130	0.19	0.16	0.65	0.61	10.70	2.9	13
ZZ53989		0.30	<0.001	0.17	0.72	40.3	<0.2	<10	200	0.26	0.39	0.13	0.26	11.30	4.0	20
ZZ53990		0.20	0.002	0.51	0.86	65.7	<0.2	10	700	0.62	0.21	2.30	0.97	14.70	7.4	24
ZZ53991		0.17	<0.001	0.20	1.23	202	<0.2	<10	400	0.78	0.28	4.25	2.95	29.6	12.3	39
ZZ53992		0.19	<0.001	0.14	0.81	402	<0.2	<10	240	0.65	0.25	2.62	2.25	18.85	9.5	29
ZZ53993		0.21	<0.001	0.26	1.24	41.8	<0.2	10	320	0.79	0.28	6.09	4.04	31.0	11.5	27
ZZ53994		0.19	<0.001	0.29	1.01	71.5	<0.2	<10	420	0.49	0.24	1.72	1.79	13.40	6.4	29
ZZ53995		0.18	0.005	0.27	0.51	11.3	<0.2	10	320	0.25	0.06	4.44	1.92	7.67	3.3	10
ZZ53996		0.24	0.004	0.54	0.86	51.0	<0.2	<10	420	0.47	0.15	2.63	1.89	15.80	6.5	20
ZZ53997		0.15	<0.001	0.18	0.71	75.5	<0.2	<10	210	0.36	0.08	3.01	1.74	8.89	4.7	16
ZZ53998		0.16	0.001	0.16	0.85	161.5	<0.2	<10	220	0.48	0.14	1.03	1.49	15.20	6.7	22
ZZ53999		0.17	<0.001	0.49	0.66	77.9	<0.2	10	270	0.50	0.15	1.76	1.25	12.80	5.8	19
ZZ54000		0.09	<0.001	0.14	0.48	63.3	<0.2	<10	210	0.40	0.09	4.33	6.19	9.78	5.3	14

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53961		1.22	21.7	3.67	4.10	0.06	0.06	0.08	0.045	0.08	26.0	12.3	0.18	316	3.80	0.01
ZZ53962		4.51	14.3	3.10	3.07	0.08	0.03	0.03	0.083	0.12	25.5	5.3	0.09	561	0.76	0.01
ZZ53963		1.18	15.7	5.46	4.39	0.07	0.06	0.07	0.061	0.10	14.5	11.3	0.27	576	2.64	0.01
ZZ53964		0.58	15.1	3.01	1.91	<0.05	<0.02	0.04	0.050	0.26	10.2	3.2	0.05	67	5.98	0.03
ZZ53965		0.65	20.1	3.45	2.64	0.08	0.06	0.11	0.047	0.08	34.7	6.6	0.09	340	2.58	0.01
ZZ53966		0.57	16.5	3.30	3.15	0.07	0.03	0.08	0.043	0.06	30.9	6.7	0.14	338	3.52	0.01
ZZ53967		1.58	21.3	3.47	5.40	<0.05	0.04	0.05	0.039	0.07	14.8	16.5	0.37	466	1.37	0.01
ZZ53968		1.62	27.5	4.78	4.78	<0.05	0.02	0.06	0.044	0.10	11.6	12.0	0.24	694	1.85	0.02
ZZ53969		1.45	20.8	5.15	5.32	<0.05	0.05	0.04	0.051	0.09	13.4	18.0	0.32	1320	1.82	0.02
ZZ53970		0.60	27.1	3.20	3.29	0.08	0.06	0.08	0.041	0.09	28.5	6.9	0.16	415	1.92	0.02
ZZ53971		0.35	29.0	2.12	1.52	0.07	0.06	0.11	0.026	0.10	28.1	4.0	0.15	153	5.56	0.02
ZZ53972		0.31	35.1	2.44	1.45	0.06	0.05	0.09	0.032	0.13	22.9	4.1	0.84	160	5.56	0.02
ZZ53973		0.32	22.4	2.58	2.12	0.06	0.08	0.10	0.029	0.08	27.6	5.1	0.16	344	2.14	0.02
ZZ53974		0.52	20.9	4.79	4.42	0.06	0.06	0.05	0.049	0.13	19.8	14.2	0.37	579	2.20	0.02
ZZ53975		1.04	26.3	4.58	4.42	0.05	0.04	0.05	0.051	0.10	16.8	14.9	0.31	725	3.05	0.01
ZZ53976		0.82	25.1	4.10	4.41	<0.05	0.04	0.01	0.038	0.09	14.0	14.7	0.34	759	1.98	0.02
ZZ53977		0.66	20.2	3.33	3.92	<0.05	0.04	0.16	0.040	0.09	16.6	12.1	0.29	517	2.50	0.02
ZZ53978		2.47	27.0	2.80	3.25	<0.05	0.06	0.11	0.031	0.09	7.6	6.8	0.20	202	3.72	0.02
ZZ53979		1.91	28.8	2.30	2.32	<0.05	0.04	0.12	0.030	0.08	5.3	3.8	0.09	80	5.10	0.02
ZZ53980		1.50	29.3	3.33	3.34	<0.05	0.03	0.07	0.032	0.07	9.7	13.2	0.30	500	3.72	0.02
ZZ53981		1.83	25.8	2.82	3.74	<0.05	0.04	0.06	0.035	0.08	13.2	9.4	0.25	361	2.41	0.02
ZZ53982		1.96	19.4	3.21	5.01	<0.05	0.02	0.01	0.032	0.08	9.1	11.7	0.30	444	2.15	0.02
ZZ53983		2.52	23.3	2.57	3.72	<0.05	0.05	0.06	0.036	0.07	9.1	7.7	0.19	207	2.03	0.02
ZZ53984		1.24	41.4	2.86	1.94	<0.05	<0.02	0.04	0.033	0.09	5.6	1.9	0.04	142	4.60	0.02
ZZ53985		1.61	32.9	2.29	1.71	<0.05	<0.02	0.04	0.028	0.08	3.6	1.3	0.03	121	3.08	0.01
ZZ53986		2.82	31.5	2.39	1.90	<0.05	0.03	0.10	0.040	0.08	6.0	3.6	0.07	138	2.68	0.02
ZZ53987		2.98	33.8	2.90	2.01	0.05	0.03	0.17	0.035	0.07	12.9	4.7	0.13	292	2.31	0.02
ZZ53988		0.82	13.1	1.29	2.48	<0.05	<0.02	0.07	0.021	0.05	7.0	2.3	0.08	118	1.23	0.03
ZZ53989		3.25	35.8	2.66	3.46	<0.05	<0.02	0.03	0.048	0.06	5.1	3.8	0.09	95	1.68	0.02
ZZ53990		1.11	29.6	2.44	2.32	<0.05	0.04	0.09	0.042	0.07	13.8	5.2	0.12	425	2.53	0.02
ZZ53991		0.73	20.3	3.02	3.10	0.12	0.03	0.13	0.050	0.06	43.8	7.4	0.23	1100	2.64	0.02
ZZ53992		1.11	21.7	2.45	2.33	0.09	0.03	0.19	0.042	0.08	22.6	5.8	0.14	345	3.50	0.02
ZZ53993		0.82	20.9	2.52	2.68	0.13	0.03	0.10	0.034	0.07	55.4	6.9	0.28	1720	1.35	0.03
ZZ53994		1.47	25.2	2.48	3.04	<0.05	0.03	0.09	0.034	0.06	8.8	5.6	0.14	407	4.55	0.02
ZZ53995		0.56	13.4	0.83	1.36	<0.05	0.02	0.08	0.014	0.03	11.4	2.8	0.12	336	1.38	0.01
ZZ53996		1.10	22.8	1.75	2.59	0.06	0.02	0.10	0.027	0.04	23.4	5.3	0.18	305	4.40	0.01
ZZ53997		0.74	16.3	1.18	2.01	0.06	0.02	0.09	0.017	0.03	18.3	3.6	0.13	449	1.40	0.01
ZZ53998		1.17	19.0	1.94	2.86	0.05	0.03	0.10	0.029	0.06	12.8	5.6	0.17	290	2.49	0.01
ZZ53999		0.78	25.1	1.74	2.01	<0.05	0.03	0.13	0.025	0.07	12.4	4.6	0.15	245	3.20	0.01
ZZ54000		0.49	13.2	1.01	1.44	0.06	0.02	0.16	0.022	0.02	14.7	1.9	0.07	1210	1.03	0.01



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 Account: RCM

Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ53961		0.42	45.7	910	19.7	13.4	0.001	0.05	2.19	4.1	1.6	0.5	23.3	<0.01	0.03	1.9
ZZ53962		0.32	22.1	860	16.0	12.8	<0.001	0.02	0.19	3.9	0.9	0.8	29.0	<0.01	0.03	3.2
ZZ53963		0.32	29.9	1120	14.3	10.2	<0.001	0.05	0.23	4.4	0.5	0.6	10.3	<0.01	0.03	2.4
ZZ53964		0.21	47.4	560	15.9	10.7	0.001	0.47	0.79	3.7	<0.2	0.6	64.8	<0.01	0.03	2.6
ZZ53965		0.23	36.8	1380	16.1	11.9	0.001	0.07	0.61	4.0	1.5	0.4	18.3	<0.01	<0.01	2.1
ZZ53966		0.43	29.9	1310	19.4	11.1	<0.001	0.10	2.02	2.2	1.8	0.3	59.4	<0.01	0.01	0.9
ZZ53967		0.52	26.1	1150	20.4	11.6	<0.001	0.04	0.55	2.5	0.7	0.6	21.1	<0.01	0.01	1.1
ZZ53968		0.41	32.3	1290	27.0	13.3	0.001	0.09	0.65	2.0	0.7	0.6	13.0	<0.01	0.03	0.8
ZZ53969		0.60	31.7	1260	23.8	13.2	0.001	0.05	0.51	3.3	0.5	0.7	11.2	<0.01	0.05	1.7
ZZ53970		0.25	44.7	1140	15.2	12.5	<0.001	0.06	0.84	4.3	1.8	0.4	28.5	<0.01	0.03	1.6
ZZ53971		0.08	49.4	1190	11.4	6.2	0.001	0.15	3.60	1.9	2.7	0.2	48.1	<0.01	0.02	1.0
ZZ53972		0.07	56.7	860	13.3	5.8	<0.001	0.05	3.42	3.9	2.9	0.2	82.7	<0.01	0.03	2.8
ZZ53973		0.21	36.3	1870	12.0	8.2	0.001	0.17	1.40	2.2	1.9	0.3	49.3	<0.01	0.01	1.1
ZZ53974		0.33	35.5	2090	19.0	7.8	<0.001	0.13	0.69	4.2	1.5	0.6	36.7	<0.01	0.01	1.3
ZZ53975		0.38	35.2	1430	29.7	11.8	0.001	0.07	1.08	3.5	1.1	0.5	17.8	<0.01	0.02	1.2
ZZ53976		0.54	29.6	1130	21.8	9.4	<0.001	0.07	0.71	3.5	0.8	0.5	21.9	<0.01	0.03	1.3
ZZ53977		0.41	31.2	1400	29.9	8.1	0.001	0.08	0.87	3.4	1.3	0.4	30.1	<0.01	0.02	1.1
ZZ53978		0.36	31.4	1700	26.3	16.8	<0.001	0.13	1.36	2.7	1.3	0.4	29.8	<0.01	0.05	0.9
ZZ53979		0.20	42.4	1680	17.8	9.5	0.005	0.14	1.06	2.4	4.0	0.4	82.2	<0.01	0.08	0.7
ZZ53980		0.42	52.1	1020	28.1	9.3	0.001	0.05	1.22	3.2	2.0	0.4	33.8	<0.01	0.04	1.6
ZZ53981		0.44	41.6	1370	15.8	11.9	<0.001	0.07	0.82	3.0	2.4	0.5	29.6	<0.01	0.08	0.9
ZZ53982		0.57	32.0	1300	19.0	12.7	0.001	0.07	0.77	1.6	0.9	0.6	25.2	<0.01	0.06	0.5
ZZ53983		0.41	34.5	1560	12.6	14.4	<0.001	0.10	0.71	2.4	1.3	0.5	28.5	<0.01	0.07	0.8
ZZ53984		0.09	64.6	1870	10.8	9.9	<0.001	0.13	1.28	0.8	4.4	0.4	39.0	<0.01	0.12	0.2
ZZ53985		0.06	42.8	1420	18.8	9.3	0.001	0.08	1.00	0.3	2.1	0.4	13.9	<0.01	0.09	<0.2
ZZ53986		0.22	49.6	730	12.9	10.4	0.001	0.07	0.99	3.7	1.9	0.4	31.4	<0.01	0.06	1.0
ZZ53987		0.24	56.9	1110	14.4	8.4	0.001	0.12	1.32	2.8	2.8	0.3	35.7	<0.01	0.13	0.5
ZZ53988		0.48	10.3	1420	7.1	3.4	<0.001	0.20	0.45	0.9	0.6	0.4	16.4	<0.01	0.02	<0.2
ZZ53989		0.44	19.1	470	16.5	10.5	<0.001	0.04	1.50	1.8	3.9	0.6	17.5	<0.01	0.20	0.4
ZZ53990		0.28	41.0	1160	12.8	8.1	0.001	0.15	1.03	2.0	3.3	0.4	34.6	<0.01	0.09	0.3
ZZ53991		0.28	33.0	2410	19.2	7.1	0.001	0.17	1.09	1.9	4.6	0.4	32.9	<0.01	0.21	0.4
ZZ53992		0.27	48.6	1770	16.6	7.4	0.001	0.11	1.58	2.7	2.7	0.4	32.2	<0.01	0.17	0.8
ZZ53993		0.30	28.7	2330	18.4	9.2	<0.001	0.24	0.82	1.4	3.3	0.4	43.2	<0.01	0.13	0.3
ZZ53994		0.39	44.2	1610	13.8	10.4	0.001	0.15	1.01	1.6	3.0	0.5	31.9	<0.01	0.05	0.4
ZZ53995		0.24	16.9	1560	5.8	4.8	0.001	0.18	0.63	0.5	1.5	0.2	68.0	<0.01	0.03	0.2
ZZ53996		0.31	48.4	1710	10.4	6.2	0.001	0.14	0.87	1.4	3.8	0.4	46.5	<0.01	0.05	0.3
ZZ53997		0.27	26.8	1940	6.8	4.6	<0.001	0.18	0.60	1.2	2.2	0.3	37.8	<0.01	0.03	0.2
ZZ53998		0.36	40.9	1240	10.7	8.6	0.001	0.07	0.97	2.4	2.2	0.5	29.2	<0.01	0.07	0.5
ZZ53999		0.26	44.5	1030	10.2	5.9	0.001	0.09	0.99	1.8	3.1	0.4	35.7	<0.01	0.04	0.3
ZZ54000		0.17	13.0	2710	9.7	2.5	0.001	0.23	0.89	2.9	2.9	0.2	32.9	<0.01	0.10	0.2

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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182363**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53961		0.005	0.28	1.33	59	0.17	19.35	180	1.6
ZZ53962		<0.005	0.19	0.55	14	0.07	16.15	94	0.8
ZZ53963		<0.005	0.34	0.69	29	0.07	10.50	76	1.3
ZZ53964		<0.005	1.41	0.44	22	<0.05	5.16	80	0.5
ZZ53965		<0.005	0.30	1.42	37	0.07	32.1	160	1.6
ZZ53966		0.008	0.32	2.47	62	0.11	21.6	164	0.8
ZZ53967		0.011	0.21	1.25	46	0.19	6.65	92	0.9
ZZ53968		0.008	0.27	0.81	45	0.11	4.43	142	0.8
ZZ53969		0.009	0.27	1.01	50	0.18	6.45	112	1.4
ZZ53970		<0.005	0.26	1.71	46	0.06	29.2	163	1.6
ZZ53971		<0.005	0.35	1.41	65	<0.05	29.4	343	1.8
ZZ53972		<0.005	0.29	1.18	64	<0.05	22.7	293	2.0
ZZ53973		<0.005	0.22	3.33	78	<0.05	25.8	236	2.3
ZZ53974		<0.005	0.22	1.27	64	0.07	13.05	183	1.8
ZZ53975		0.006	0.39	0.95	77	0.10	14.05	198	1.1
ZZ53976		0.012	0.21	1.12	59	0.17	9.94	179	1.0
ZZ53977		0.008	0.36	2.76	98	0.21	15.80	366	1.4
ZZ53978		0.009	0.47	1.58	68	0.17	9.60	223	1.6
ZZ53979		<0.005	0.36	2.39	59	0.09	11.95	213	1.2
ZZ53980		0.013	0.33	1.33	64	0.29	10.10	236	0.9
ZZ53981		0.012	0.30	1.55	58	0.14	18.85	167	1.3
ZZ53982		0.020	0.25	1.01	66	0.20	8.06	169	<0.5
ZZ53983		0.009	0.31	1.64	57	0.18	14.70	144	1.4
ZZ53984		0.005	0.16	2.35	59	0.09	11.10	240	<0.5
ZZ53985		<0.005	0.19	2.03	49	0.08	6.66	180	<0.5
ZZ53986		0.006	0.24	2.11	41	0.06	16.45	169	1.2
ZZ53987		0.008	0.46	1.43	42	0.08	33.9	204	0.9
ZZ53988		0.018	0.15	0.91	28	0.09	6.78	59	<0.5
ZZ53989		0.014	0.41	0.65	55	0.13	3.43	93	<0.5
ZZ53990		0.006	0.44	2.76	41	0.08	24.0	161	1.1
ZZ53991		0.009	0.36	1.75	59	0.11	90.0	264	0.7
ZZ53992		0.007	0.75	3.57	53	0.11	50.7	219	0.8
ZZ53993		0.010	0.19	0.85	51	0.13	104.5	257	0.6
ZZ53994		0.010	0.30	1.85	51	0.12	15.10	220	1.0
ZZ53995		0.006	0.08	0.91	17	0.06	16.05	119	0.7
ZZ53996		0.007	0.13	3.65	38	0.09	41.5	166	0.6
ZZ53997		0.007	0.16	3.65	38	0.06	48.7	161	0.7
ZZ53998		0.010	0.26	2.24	45	0.10	25.4	220	0.9
ZZ53999		0.007	0.17	0.88	29	0.08	23.5	163	0.8
ZZ54000		<0.005	0.12	2.15	36	<0.05	65.4	168	0.8



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**CERTIFICATE OF ANALYSIS WH12182363**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12182364**

Project: ATAC- Regional AreaB DaleInfill  
 P.O. No.: Soil 28  
 This report is for 184 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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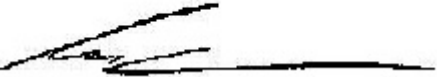
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
ZZ59171		0.21	<0.001		0.15	1.18	30.6	<0.2	<10	230	0.36	0.23	0.13	0.21	22.1	4.5
ZZ59172		0.19	0.003		0.65	0.78	34.1	<0.2	<10	1010	0.84	0.15	3.32	11.00	15.65	3.9
ZZ59173		0.25	0.002		0.06	1.93	19.9	<0.2	<10	110	0.74	0.28	0.06	0.15	23.8	12.5
ZZ59174		0.25	0.002		0.07	1.76	30.9	<0.2	<10	80	0.83	0.33	0.03	0.28	22.2	18.4
ZZ59175		0.31	0.001		0.07	1.77	13.6	<0.2	<10	100	1.03	0.36	0.12	0.12	16.60	17.2
ZZ59176		0.35	0.002		0.29	1.23	74.7	<0.2	<10	230	1.25	0.36	3.99	0.49	21.9	14.7
ZZ59177		0.29	0.003		0.33	1.13	26.4	<0.2	<10	220	1.13	0.24	1.43	1.53	22.9	13.6
ZZ59178		0.24	0.001		0.20	1.19	16.9	<0.2	<10	300	0.92	0.22	0.99	0.67	14.60	7.7
ZZ59179		0.21	0.007		0.27	0.69	36.0	<0.2	10	270	0.73	0.13	2.59	2.66	14.75	8.8
ZZ59180		0.26	0.002		0.07	1.69	42.8	<0.2	<10	180	0.84	0.28	0.08	0.49	27.6	11.7
ZZ59181		0.19	0.027		0.29	1.45	24.4	<0.2	<10	430	1.03	0.21	1.28	3.99	23.3	11.4
ZZ59182		0.21	0.004		0.27	1.34	40.3	<0.2	<10	410	1.12	0.22	0.88	0.85	23.4	13.5
ZZ59183		0.22	0.002		0.30	1.27	40.2	<0.2	<10	400	1.04	0.23	0.87	0.90	21.6	11.7
ZZ59184		0.19	0.007		0.31	1.01	33.4	<0.2	10	250	1.00	0.17	2.12	0.69	12.05	9.7
ZZ59185		0.24	0.003		0.09	1.53	36.9	<0.2	<10	270	0.88	0.28	0.14	0.91	24.8	10.9
ZZ59186		0.24	0.002		0.07	1.62	126.0	<0.2	<10	140	0.72	0.28	0.07	0.33	26.1	12.0
ZZ59187		0.26	0.001		0.02	1.76	22.4	<0.2	<10	140	0.59	0.29	0.04	0.66	22.7	13.9
ZZ59188		0.25	0.003		0.11	1.52	13.5	<0.2	<10	210	0.77	0.23	0.29	0.09	18.70	7.5
ZZ59190		0.28	0.002		0.04	2.06	31.0	<0.2	<10	100	0.85	0.31	0.03	0.15	28.3	18.9
ZZ59191		0.20	0.001		0.20	1.33	47.5	<0.2	<10	200	0.48	0.22	0.10	0.24	19.35	6.8
ZZ59192		0.20	0.001		0.09	1.29	62.5	<0.2	<10	140	0.51	0.26	0.04	0.15	17.20	8.9
ZZ59193		0.27	0.003		0.07	1.88	19.5	<0.2	<10	190	0.83	0.29	0.09	0.11	22.9	12.6
ZZ59194		0.23	0.002		0.25	1.93	21.6	<0.2	<10	300	1.01	0.26	0.45	0.15	23.5	14.7
ZZ59195		0.23	<0.001		0.13	1.21	20.3	<0.2	<10	150	0.43	0.22	0.10	0.35	14.75	9.0
ZZ59196		0.25	0.001		0.11	1.87	9.8	<0.2	<10	150	0.59	0.27	0.10	0.39	20.1	6.4
ZZ59197		0.27	0.001		0.10	1.95	21.5	<0.2	<10	120	0.95	0.29	0.04	0.28	26.3	17.7
ZZ59198		0.20	0.001		0.14	1.11	15.8	<0.2	<10	330	0.51	0.25	0.95	0.29	13.60	5.9
ZZ59199		0.22	0.001		0.08	1.15	25.9	<0.2	<10	230	0.76	0.25	0.24	0.42	33.8	12.8
ZZ59200		0.28	0.001		0.11	0.48	44.3	<0.2	<10	130	0.66	0.30	0.13	0.29	11.90	10.1
ZZ59201		0.21	0.003		0.86	1.10	182.5	<0.2	<10	200	0.99	0.17	6.18	1.94	22.1	7.2
ZZ59202		0.25	0.002		1.80	0.62	15.8	<0.2	10	1060	0.50	0.14	1.57	0.41	6.71	2.8
ZZ59203		0.35	0.004		1.34	0.37	17.4	<0.2	<10	860	0.29	0.19	0.11	0.30	3.95	2.4
ZZ59204		0.25	0.003		2.01	0.61	21.1	<0.2	<10	970	0.46	0.19	0.10	0.59	6.18	2.8
ZZ59205		0.35	0.003		1.70	0.60	17.3	<0.2	<10	1050	0.42	0.16	0.32	0.26	6.50	3.2
ZZ59206		0.34	0.005		4.05	0.57	44.5	<0.2	10	2050	0.73	0.17	0.71	2.25	9.01	6.2
ZZ59207		0.24	0.005		2.41	0.54	30.5	<0.2	10	1790	0.72	0.14	0.89	1.54	8.86	5.3
ZZ59208		0.29	0.005		3.10	0.69	30.6	<0.2	10	2220	0.72	0.15	1.61	2.37	9.21	4.9
ZZ59209		0.29	0.007		5.94	0.79	42.0	<0.2	10	2480	0.82	0.19	1.05	5.94	12.10	4.9
ZZ59210		0.38	0.011		6.15	0.59	74.3	<0.2	10	1490	0.62	0.22	0.97	9.85	9.85	3.6
ZZ59211		0.35	0.059		2.25	0.41	365	<0.2	<10	1120	0.62	0.21	0.43	1.87	5.81	6.1



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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ59171		15	1.43	17.4	1.74	6.17	<0.05	<0.02	0.07	0.017	0.06	9.7	7.0	0.14	112	1.71
ZZ59172		24	0.85	35.4	1.27	2.68	0.05	0.09	0.30	0.019	0.04	17.5	4.4	0.25	193	17.20
ZZ59173		28	1.80	29.7	4.17	6.13	0.09	0.06	0.06	0.036	0.06	10.1	35.3	0.52	385	1.22
ZZ59174		27	1.71	57.7	5.29	5.88	0.07	0.05	0.10	0.042	0.07	9.4	30.9	0.46	919	1.11
ZZ59175		27	1.48	27.6	4.22	6.54	0.06	0.03	0.08	0.035	0.08	6.3	36.8	0.51	738	0.64
ZZ59176		20	1.77	44.9	4.10	4.09	0.09	0.11	0.39	0.037	0.10	9.5	18.3	2.39	1300	0.67
ZZ59177		19	1.03	46.3	3.40	3.84	0.09	0.12	0.17	0.034	0.11	12.9	18.4	0.53	518	3.02
ZZ59178		17	1.00	20.8	2.70	3.64	0.07	0.09	0.13	0.031	0.06	7.8	10.0	0.22	235	2.78
ZZ59179		13	0.64	30.7	4.64	2.14	0.09	0.09	0.16	0.021	0.07	8.8	9.7	0.38	202	5.02
ZZ59180		27	1.63	23.7	4.16	5.71	0.06	0.03	0.15	0.035	0.05	10.2	24.8	0.34	944	1.32
ZZ59181		22	1.28	28.9	3.02	3.91	0.06	0.10	0.26	0.033	0.06	12.4	17.3	0.52	702	0.84
ZZ59182		24	1.39	37.2	3.50	4.41	0.07	0.09	0.33	0.041	0.08	11.8	15.6	0.44	676	0.86
ZZ59183		23	1.55	43.8	3.60	3.91	0.07	0.08	0.38	0.037	0.08	10.9	11.5	0.40	541	0.82
ZZ59184		17	1.36	44.8	2.86	2.79	0.05	0.07	0.35	0.028	0.07	8.1	8.5	0.42	627	0.70
ZZ59185		25	1.96	28.8	4.26	6.15	0.06	0.04	0.19	0.046	0.08	10.9	15.8	0.30	902	0.89
ZZ59186		26	2.29	32.1	4.18	6.42	0.07	0.03	0.05	0.045	0.07	10.6	19.7	0.35	547	1.01
ZZ59187		28	1.68	36.7	4.84	6.72	0.05	0.04	0.03	0.046	0.06	10.8	28.0	0.47	413	1.03
ZZ59188		22	1.74	20.1	2.98	5.63	0.05	0.02	0.04	0.034	0.05	8.5	14.6	0.26	225	1.09
ZZ59190		31	2.09	49.0	4.78	6.16	0.08	0.05	0.06	0.047	0.07	12.4	32.6	0.54	525	1.17
ZZ59191		28	1.47	20.6	2.61	5.21	0.05	0.02	0.07	0.032	0.06	9.2	14.8	0.30	478	0.86
ZZ59192		20	1.49	25.4	3.40	6.21	<0.05	<0.02	0.06	0.031	0.06	8.0	10.7	0.19	369	1.13
ZZ59193		27	1.88	35.9	4.19	7.17	0.05	0.02	0.05	0.045	0.06	10.2	23.7	0.37	556	1.31
ZZ59194		29	2.09	30.3	3.68	6.15	0.06	0.07	0.11	0.039	0.07	10.3	21.7	0.39	626	1.00
ZZ59195		22	1.47	24.3	3.06	5.24	0.05	<0.02	0.05	0.024	0.08	6.6	11.8	0.38	677	1.16
ZZ59196		27	1.33	13.2	2.95	6.42	<0.05	<0.02	0.09	0.030	0.05	9.6	17.2	0.30	420	1.07
ZZ59197		30	2.00	47.4	4.85	6.15	0.06	0.04	0.02	0.046	0.08	10.6	31.2	0.51	525	0.94
ZZ59198		18	1.47	17.4	2.88	4.58	<0.05	0.02	0.08	0.026	0.06	6.3	9.6	0.21	441	0.88
ZZ59199		30	1.70	35.8	3.74	5.02	0.07	<0.02	0.04	0.037	0.09	13.3	16.4	0.40	634	0.94
ZZ59200		11	4.61	28.2	3.13	2.48	<0.05	<0.02	0.27	0.032	0.10	4.9	2.2	0.07	678	0.69
ZZ59201		17	5.34	25.6	3.10	2.72	0.08	0.08	0.83	0.030	0.06	12.3	11.8	3.53	1220	0.62
ZZ59202		26	0.60	28.7	1.69	1.90	0.06	0.04	0.14	0.028	0.07	4.3	2.6	0.08	128	3.41
ZZ59203		21	1.29	28.9	2.08	1.59	0.05	<0.02	0.06	0.026	0.11	2.6	0.8	0.02	42	6.34
ZZ59204		29	0.89	44.4	2.23	1.90	0.07	0.02	0.08	0.033	0.10	4.5	1.7	0.04	98	5.34
ZZ59205		24	1.03	27.4	1.96	2.21	<0.05	0.02	0.11	0.025	0.07	4.0	2.5	0.07	118	5.27
ZZ59206		36	2.14	45.7	3.12	1.93	0.07	0.06	0.23	0.035	0.07	6.2	3.1	0.08	157	9.97
ZZ59207		28	2.15	35.3	2.43	1.79	0.07	0.05	0.16	0.031	0.06	6.3	3.4	0.09	137	7.00
ZZ59208		37	1.62	40.0	2.44	2.22	0.07	0.08	0.19	0.029	0.05	6.8	5.0	0.12	131	7.56
ZZ59209		60	2.04	56.4	2.53	2.58	0.09	0.07	0.34	0.035	0.08	8.8	5.4	0.13	120	20.2
ZZ59210		62	2.78	79.0	2.65	2.08	0.08	0.03	0.47	0.043	0.15	8.2	3.2	0.08	79	20.1
ZZ59211		32	3.84	80.3	3.41	1.92	0.07	0.02	2.58	0.047	0.11	3.5	1.9	0.05	112	11.20

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ59171		0.01	0.32	10.7	770	9.8	8.0	<0.001	0.04	0.36	1.4	0.2	0.8	11.5	<0.01	0.05
ZZ59172		0.02	0.28	63.1	2900	7.8	5.7	0.003	0.30	5.18	1.4	5.6	0.5	59.8	0.01	0.04
ZZ59173		0.01	0.70	23.9	580	19.0	9.6	0.001	0.02	0.58	3.3	0.6	0.6	7.5	<0.01	0.05
ZZ59174		0.01	0.42	26.8	530	30.6	11.4	0.002	0.01	0.60	4.8	0.7	0.7	6.5	<0.01	0.12
ZZ59175		0.01	0.40	24.6	540	28.2	11.4	0.001	0.01	0.29	4.2	0.4	0.8	9.9	<0.01	0.04
ZZ59176		0.01	0.24	27.2	630	68.2	9.3	0.002	0.04	0.60	6.2	0.8	0.8	34.9	<0.01	0.06
ZZ59177		0.01	0.20	41.8	990	25.6	9.4	0.002	0.07	1.48	5.1	1.2	0.6	37.2	<0.01	0.09
ZZ59178		0.01	0.22	21.0	1430	16.3	11.5	0.002	0.13	0.87	2.4	2.0	0.6	32.1	<0.01	0.03
ZZ59179		0.01	0.18	29.2	1190	13.4	9.2	0.040	0.59	0.69	3.2	14.3	0.4	97.6	<0.01	0.04
ZZ59180		<0.01	0.72	23.2	550	46.1	10.0	0.001	0.01	0.88	3.3	0.9	0.7	9.5	<0.01	0.07
ZZ59181		0.01	0.37	21.3	1350	35.0	11.5	0.001	0.15	0.39	3.4	1.8	0.5	35.1	<0.01	0.05
ZZ59182		0.01	0.34	24.2	890	39.3	11.2	0.001	0.06	0.56	5.1	1.0	0.6	27.8	<0.01	0.09
ZZ59183		0.01	0.28	24.9	920	39.5	10.6	0.001	0.07	0.57	4.6	1.2	0.5	21.6	<0.01	0.08
ZZ59184		0.01	0.22	22.1	1100	30.3	8.3	0.001	0.14	0.61	2.8	1.2	0.4	38.0	<0.01	0.07
ZZ59185		0.01	0.50	17.4	680	35.9	18.9	0.001	0.03	0.49	4.3	0.5	0.8	11.7	<0.01	0.08
ZZ59186		<0.01	0.56	22.4	350	41.7	15.3	0.001	0.01	0.77	3.7	0.5	0.8	10.2	<0.01	0.10
ZZ59187		<0.01	0.55	23.3	310	26.8	13.7	<0.001	<0.01	0.46	4.0	0.5	0.8	8.3	<0.01	0.11
ZZ59188		0.01	0.61	14.7	860	17.3	8.9	0.001	0.03	0.38	1.9	0.4	0.7	22.7	<0.01	0.07
ZZ59190		0.01	0.49	30.1	290	23.9	12.3	0.001	<0.01	0.53	5.0	0.7	0.7	8.1	<0.01	0.12
ZZ59191		0.01	0.23	14.0	1540	12.0	17.9	0.002	0.06	0.25	0.9	0.4	0.6	9.9	<0.01	0.05
ZZ59192		<0.01	0.45	15.0	760	15.5	14.6	0.001	0.04	0.43	1.1	0.3	0.8	6.9	<0.01	0.09
ZZ59193		0.01	0.65	21.5	630	26.7	15.9	0.001	0.02	0.44	3.5	0.5	0.9	11.1	<0.01	0.08
ZZ59194		0.01	0.49	22.2	1540	19.2	13.3	0.001	0.07	0.42	4.1	1.0	0.7	36.4	<0.01	0.07
ZZ59195		0.01	0.21	14.7	1520	27.2	15.7	0.002	0.07	0.41	0.9	0.3	0.5	10.6	<0.01	0.06
ZZ59196		0.01	0.47	12.7	1360	10.7	14.3	<0.001	0.07	0.32	0.7	0.4	0.7	9.7	<0.01	0.04
ZZ59197		0.01	0.40	28.1	440	29.5	14.0	<0.001	0.01	0.47	4.6	0.7	0.7	8.1	<0.01	0.09
ZZ59198		0.01	0.53	13.4	1530	12.6	14.4	<0.001	0.13	0.38	1.1	0.2	0.5	38.6	<0.01	0.06
ZZ59199		0.01	0.42	23.3	730	24.1	26.3	0.001	0.03	0.40	2.2	0.3	0.7	18.5	<0.01	0.06
ZZ59200		0.01	0.19	18.5	910	42.5	14.1	0.001	0.04	0.27	1.9	<0.2	0.5	13.4	<0.01	0.08
ZZ59201		0.01	0.23	20.7	1510	112.5	19.0	0.001	0.09	2.26	3.7	1.6	0.5	45.8	<0.01	0.03
ZZ59202		0.01	0.20	33.7	1430	8.7	6.6	0.003	0.14	1.02	2.1	3.7	0.5	72.8	<0.01	0.12
ZZ59203		0.01	0.12	29.3	930	11.7	10.1	0.001	0.28	1.08	1.7	7.1	0.5	64.0	<0.01	0.15
ZZ59204		0.01	0.10	36.2	1580	12.2	8.7	0.001	0.23	1.06	2.6	7.4	0.6	111.5	<0.01	0.24
ZZ59205		0.01	0.13	29.7	1280	10.2	10.5	0.001	0.16	0.97	1.5	4.2	0.5	73.7	<0.01	0.14
ZZ59206		0.02	0.13	88.5	1730	12.7	6.4	0.003	0.08	2.47	5.3	7.5	0.5	242	<0.01	0.09
ZZ59207		0.01	0.14	57.5	1400	11.7	5.9	0.003	0.08	1.88	4.4	6.0	0.5	174.5	<0.01	0.08
ZZ59208		0.02	0.17	59.3	1550	11.0	6.1	0.002	0.12	2.04	3.7	7.5	0.5	189.5	<0.01	0.09
ZZ59209		0.02	0.20	88.6	2060	12.9	7.5	0.002	0.11	5.37	5.0	11.5	0.6	223	<0.01	0.12
ZZ59210		0.02	0.18	105.0	2630	16.2	10.2	0.008	0.29	6.22	4.9	15.8	0.7	264	<0.01	0.16
ZZ59211		0.01	0.11	111.0	1430	31.4	8.1	0.008	0.17	4.52	6.2	13.0	0.7	217	<0.01	0.13



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59171		0.4	0.009	0.26	0.49	46	0.12	4.05	34	<0.5
ZZ59172		0.4	0.007	0.63	12.10	232	0.12	27.0	362	3.0
ZZ59173		2.2	0.015	0.16	0.61	49	0.15	3.34	66	1.4
ZZ59174		3.2	0.008	0.21	0.55	49	0.10	4.31	104	1.6
ZZ59175		4.1	0.009	0.12	0.46	33	0.07	5.51	90	1.1
ZZ59176		4.7	0.006	0.50	1.30	27	0.10	13.50	233	3.0
ZZ59177		2.4	0.005	0.26	1.24	51	0.05	17.80	220	3.2
ZZ59178		1.2	<0.005	0.27	2.73	54	<0.05	10.20	146	2.4
ZZ59179		1.5	<0.005	0.19	3.41	46	<0.05	11.55	219	2.8
ZZ59180		2.1	0.015	0.35	0.92	47	0.18	5.26	192	0.8
ZZ59181		1.2	0.008	1.42	4.32	32	0.07	12.05	713	2.7
ZZ59182		1.6	0.007	0.70	2.10	38	0.08	10.70	297	2.2
ZZ59183		1.4	0.006	0.90	2.00	36	0.09	10.30	291	2.3
ZZ59184		0.7	<0.005	0.69	1.96	27	0.06	12.10	169	2.1
ZZ59185		2.3	0.010	0.30	1.45	49	0.11	5.43	501	1.1
ZZ59186		2.7	0.010	0.33	0.61	54	0.16	3.15	99	1.0
ZZ59187		3.0	0.008	0.17	0.48	56	0.11	2.62	101	1.1
ZZ59188		0.9	0.011	0.19	0.84	48	0.18	3.21	47	0.6
ZZ59190		4.2	0.010	0.23	0.68	53	0.12	4.23	80	1.5
ZZ59191		0.3	0.007	0.92	1.05	39	0.10	3.73	64	<0.5
ZZ59192		0.3	0.009	0.68	0.63	54	0.13	2.66	51	<0.5
ZZ59193		1.6	0.011	0.17	0.66	62	0.17	3.60	71	0.8
ZZ59194		1.3	0.010	0.25	3.84	51	0.13	7.93	68	1.7
ZZ59195		0.2	0.008	0.19	0.85	45	0.08	2.52	67	<0.5
ZZ59196		0.2	0.011	0.22	0.93	49	0.19	3.07	58	<0.5
ZZ59197		2.6	0.007	0.17	0.64	54	0.09	3.82	113	1.2
ZZ59198		0.3	0.011	0.15	1.09	41	0.12	3.17	65	0.5
ZZ59199		0.8	0.013	0.16	1.05	49	0.12	3.61	127	<0.5
ZZ59200		0.6	0.007	0.63	0.80	24	0.07	3.61	118	<0.5
ZZ59201		1.2	0.008	0.63	2.42	24	0.12	15.15	416	2.2
ZZ59202		0.5	<0.005	0.12	3.71	49	0.05	13.60	115	1.4
ZZ59203		0.5	<0.005	0.25	1.56	55	0.05	7.17	107	<0.5
ZZ59204		0.5	<0.005	0.21	3.66	68	0.05	21.5	118	0.7
ZZ59205		0.4	0.005	0.27	1.98	61	0.12	11.35	99	0.7
ZZ59206		1.1	0.005	0.37	3.40	81	0.12	33.3	299	2.0
ZZ59207		0.8	<0.005	0.26	3.00	65	0.10	32.9	202	1.8
ZZ59208		0.6	0.005	0.23	4.42	77	0.10	32.8	211	2.9
ZZ59209		1.2	0.006	0.79	5.32	178	0.19	34.9	392	2.8
ZZ59210		1.1	0.005	1.41	7.38	223	0.23	29.2	440	1.2
ZZ59211		1.2	<0.005	1.86	3.22	83	0.32	20.1	355	1.0



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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
ZZ59212		0.34	0.016		1.49	1.07	209	<0.2	<10	910	1.03	0.18	0.72	2.41	26.3	10.6
ZZ59213		0.32	0.006		0.70	0.88	143.5	<0.2	<10	470	0.64	0.23	0.08	1.07	14.30	6.0
ZZ59214		0.35	0.014		6.22	0.65	454	<0.2	<10	170	0.75	0.36	0.12	1.63	15.45	6.3
ZZ59215		0.26	0.007		0.28	1.04	291	<0.2	<10	390	0.72	0.21	0.08	1.20	20.6	10.7
ZZ59216		0.27	0.006		0.61	0.42	44.2	<0.2	<10	390	0.67	0.21	0.14	1.48	18.20	10.7
ZZ59217		0.31	0.004		0.77	0.50	29.1	<0.2	<10	220	0.32	0.24	0.01	0.20	10.90	5.5
ZZ59218		0.29	0.004		0.34	0.63	62.7	<0.2	<10	190	0.45	0.21	0.01	0.39	15.00	4.6
ZZ59219		0.32	0.006		0.59	0.64	33.6	<0.2	<10	450	0.61	0.22	0.09	1.10	18.05	6.5
ZZ59220		0.34	0.006		0.54	1.65	802	<0.2	<10	410	1.05	0.25	0.58	2.77	33.5	10.0
ZZ59221		0.20	0.001		0.22	1.16	392	<0.2	<10	380	0.78	0.16	0.85	2.59	62.3	10.3
ZZ59222		0.26	0.002		0.22	1.65	69.2	<0.2	<10	320	1.21	0.21	0.56	0.45	67.1	12.9
ZZ59223		0.27	<0.001		0.07	1.85	48.3	<0.2	<10	220	0.58	0.22	0.15	0.23	19.25	8.0
ZZ59224		0.24	0.003		0.13	1.21	43.8	<0.2	<10	180	0.50	0.22	0.09	0.31	11.60	6.0
ZZ59225		0.19	<0.001		0.10	1.26	40.7	<0.2	<10	230	0.47	0.21	0.19	0.24	14.90	5.1
ZZ59226		0.26	0.002		0.09	1.29	17.8	<0.2	<10	170	0.45	0.18	0.32	0.14	14.60	3.7
ZZ59227		0.26	0.001		0.11	1.31	19.2	<0.2	<10	190	0.47	0.16	0.56	0.14	18.15	4.4
ZZ59228		0.25	0.001		0.94	0.97	29.7	<0.2	<10	220	0.78	0.16	1.38	3.02	39.4	8.8
ZZ59229		0.25	0.002		0.28	1.78	18.5	<0.2	<10	210	0.76	0.22	0.61	0.88	37.5	10.1
ZZ59230		0.27	0.002		0.06	1.83	30.7	<0.2	<10	250	0.65	0.31	0.19	0.70	22.9	16.7
ZZ59231		0.25	0.001		0.36	1.30	22.1	<0.2	<10	210	0.73	0.20	1.30	1.38	22.7	8.7
ZZ59232		0.25	0.003		0.35	0.97	35.1	<0.2	<10	230	0.76	0.16	0.92	1.40	27.8	8.8
ZZ59233		0.24	0.002		1.53	0.74	17.6	<0.2	<10	160	0.73	0.15	1.39	5.93	26.9	8.0
ZZ59234		0.29	0.001		0.10	0.86	29.3	<0.2	<10	150	0.29	0.15	1.21	0.56	10.15	6.0
ZZ59235		0.35	0.003		0.11	0.60	67.4	<0.2	<10	260	0.73	0.05	0.42	0.33	18.10	19.3
ZZ59236		0.24	0.002		0.50	1.15	23.1	<0.2	<10	150	0.74	0.20	0.65	2.09	35.8	10.6
ZZ59237		0.26	0.001		0.09	1.53	27.4	<0.2	<10	190	0.60	0.19	0.20	0.26	24.4	7.1
ZZ59238		0.22	0.001		0.11	1.48	16.1	<0.2	<10	170	0.46	0.21	0.14	0.37	20.2	5.3
ZZ59239		0.25	0.001		0.07	1.48	22.5	<0.2	<10	240	0.73	0.14	0.60	0.24	28.0	10.5
ZZ59240		0.23	0.001		0.08	1.36	31.2	<0.2	<10	260	0.61	0.22	0.88	0.39	13.80	9.6
ZZ59241		0.24	0.001		0.07	1.68	21.4	<0.2	<10	140	0.62	0.24	0.06	0.17	17.00	9.0
ZZ59242		0.18	0.002		0.16	1.45	34.6	<0.2	<10	220	0.46	0.18	1.13	0.60	17.60	8.6
ZZ59243		0.23	0.004		0.10	1.59	111.5	<0.2	<10	220	0.80	0.22	0.31	0.46	22.2	14.5
ZZ59244		0.27	0.002		0.06	1.51	14.4	<0.2	<10	100	0.36	0.24	0.08	0.22	19.90	6.1
ZZ59245		0.26	0.002		0.04	1.68	48.9	<0.2	<10	170	0.91	0.19	0.15	0.27	21.2	18.2
ZZ59246		0.21	0.001		0.08	1.76	30.9	<0.2	<10	240	0.69	0.75	0.41	0.15	20.5	9.9
ZZ59247		0.19	0.002		0.05	1.61	27.6	<0.2	<10	160	0.63	0.26	0.16	0.19	17.60	6.5
ZZ59248		0.31	0.001		0.84	0.54	491	<0.2	<10	190	0.75	0.20	7.04	3.98	35.0	11.7
ZZ59249		0.22	0.010		4.97	1.40	873	<0.2	<10	390	1.32	0.24	1.08	15.30	36.2	9.7
ZZ59250		0.27	0.005		0.60	0.51	64.7	<0.2	<10	430	0.78	0.28	0.06	1.41	16.80	8.4
ZZ59251		0.22	0.026		1.64	1.17	5800	<0.2	<10	260	2.49	0.18	2.08	18.10	35.4	23.6



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
ZZ59212		27	2.07	58.8	3.85	2.89	0.07	0.05	0.48	0.039	0.11	14.4	9.7	0.35	926	4.58
ZZ59213		22	3.89	40.3	3.09	2.65	<0.05	<0.02	0.21	0.035	0.11	7.0	5.5	0.13	259	6.39
ZZ59214		33	11.20	115.5	7.70	3.48	0.09	<0.02	0.98	0.111	0.57	6.0	4.6	0.09	190	32.2
ZZ59215		20	4.90	47.5	3.27	2.75	0.05	0.02	0.20	0.036	0.11	8.0	7.8	0.15	512	3.83
ZZ59216		8	10.05	81.0	2.85	1.57	0.06	<0.02	0.19	0.034	0.13	6.4	1.3	0.04	261	5.47
ZZ59217		11	12.75	44.5	2.66	2.29	<0.05	<0.02	0.15	0.032	0.16	4.4	1.1	0.03	70	6.62
ZZ59218		10	11.30	43.1	2.23	2.27	<0.05	0.02	0.08	0.035	0.14	5.8	2.0	0.05	69	5.04
ZZ59219		11	20.9	61.3	2.30	2.14	0.05	<0.02	0.12	0.036	0.15	6.2	2.3	0.07	162	4.23
ZZ59220		32	2.36	44.0	3.42	4.41	0.08	0.06	0.26	0.038	0.10	20.0	12.1	0.38	342	4.90
ZZ59221		22	1.06	19.7	3.32	3.14	0.05	0.04	0.07	0.032	0.11	13.9	8.5	0.15	631	3.91
ZZ59222		28	1.21	21.9	3.84	4.28	0.06	0.04	0.08	0.043	0.11	19.2	13.3	0.19	515	1.98
ZZ59223		33	1.56	17.1	3.77	5.74	<0.05	0.02	0.04	0.031	0.08	7.7	11.8	0.26	390	1.91
ZZ59224		19	1.32	18.8	2.96	4.27	<0.05	<0.02	0.05	0.027	0.08	5.3	6.2	0.12	416	1.79
ZZ59225		20	1.71	17.1	2.48	4.48	<0.05	<0.02	0.03	0.023	0.08	7.4	7.5	0.14	341	1.38
ZZ59226		20	1.51	10.7	1.89	4.18	<0.05	<0.02	0.04	0.023	0.06	6.5	7.9	0.16	175	1.29
ZZ59227		18	1.56	17.5	2.15	4.19	<0.05	<0.02	0.03	0.024	0.06	8.1	5.6	0.11	126	2.47
ZZ59228		17	0.38	21.3	2.79	2.49	0.07	0.04	0.09	0.032	0.08	23.4	6.6	0.16	471	3.45
ZZ59229		24	1.38	25.2	3.51	4.66	0.05	0.04	0.06	0.028	0.08	14.6	19.0	0.36	535	1.66
ZZ59230		26	1.16	40.2	5.31	5.97	<0.05	0.05	0.07	0.036	0.11	7.4	27.8	0.43	841	1.60
ZZ59231		18	1.00	27.3	3.34	3.28	0.05	0.05	0.08	0.030	0.08	14.8	12.6	0.26	449	2.02
ZZ59232		18	0.67	29.1	2.87	2.52	0.06	0.06	0.07	0.034	0.09	16.0	7.9	0.17	317	2.61
ZZ59233		12	0.55	27.2	2.58	2.05	0.07	0.05	0.14	0.027	0.09	19.2	6.7	0.17	210	6.35
ZZ59234		12	0.95	18.5	2.18	3.72	<0.05	0.03	0.07	0.024	0.09	4.4	3.6	0.10	138	3.08
ZZ59235		32	0.52	36.2	4.60	1.41	0.06	0.03	0.21	0.051	0.18	8.8	1.4	0.04	343	2.40
ZZ59236		16	0.47	22.4	3.18	2.74	0.05	0.04	0.08	0.030	0.09	13.6	10.7	0.18	316	3.86
ZZ59237		20	1.14	15.0	2.90	4.83	<0.05	0.03	0.03	0.028	0.07	10.2	11.8	0.17	203	3.05
ZZ59238		24	1.47	13.5	2.54	5.25	<0.05	<0.02	0.03	0.023	0.07	10.3	9.8	0.26	330	1.52
ZZ59239		37	1.56	18.2	3.91	3.74	0.05	0.03	0.05	0.035	0.07	12.1	8.4	0.24	404	1.24
ZZ59240		22	1.84	23.0	3.38	4.47	<0.05	0.04	0.05	0.030	0.09	6.7	8.9	0.18	786	1.68
ZZ59241		26	2.01	26.4	3.84	5.25	<0.05	0.03	0.05	0.031	0.08	6.9	12.7	0.23	458	1.42
ZZ59242		18	1.67	12.3	2.08	4.75	<0.05	<0.02	0.05	0.024	0.06	9.1	6.4	0.12	979	1.14
ZZ59243		29	1.97	24.4	4.09	4.48	<0.05	0.04	0.05	0.038	0.09	7.4	12.8	0.21	525	1.92
ZZ59244		24	1.45	16.3	3.11	5.84	<0.05	<0.02	0.04	0.024	0.06	9.6	11.9	0.26	236	1.31
ZZ59245		32	1.30	27.9	5.35	4.22	<0.05	0.07	0.04	0.046	0.10	7.6	14.2	0.22	640	1.67
ZZ59246		30	1.47	17.2	4.25	5.15	<0.05	0.03	0.07	0.034	0.07	6.5	12.5	0.20	419	1.37
ZZ59247		23	1.55	14.1	3.56	5.53	<0.05	<0.02	0.09	0.026	0.06	8.0	15.1	0.23	338	1.50
ZZ59248		12	0.94	22.9	2.62	1.52	0.08	0.04	0.07	0.031	0.12	21.3	3.5	1.38	300	5.95
ZZ59249		30	2.35	41.4	3.73	4.03	0.08	0.07	3.96	0.041	0.08	17.2	7.7	0.14	445	14.20
ZZ59250		11	11.10	58.8	2.84	2.02	0.05	<0.02	0.18	0.043	0.13	7.0	1.7	0.04	169	5.92
ZZ59251		24	3.96	37.8	9.49	2.92	0.09	0.07	0.57	0.035	0.10	27.9	4.8	0.20	313	29.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41 Na %	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm
		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ59212		0.01	0.25	70.0	1510	32.3	8.4	0.002	0.10	1.93	5.9	4.8	0.6	61.0	<0.01	0.07
ZZ59213		0.01	0.24	39.4	1360	23.1	11.4	0.001	0.17	2.15	1.6	2.8	0.6	42.6	<0.01	0.06
ZZ59214		0.02	0.21	58.0	2400	130.5	41.9	0.003	1.35	10.50	5.1	18.0	1.1	373	<0.01	0.35
ZZ59215		<0.01	0.27	41.1	1220	24.1	15.1	0.001	0.08	2.05	2.7	2.6	0.6	38.4	<0.01	0.08
ZZ59216		<0.01	0.12	53.7	1410	21.1	16.4	0.003	0.06	3.16	2.3	3.6	0.6	23.6	<0.01	0.07
ZZ59217		<0.01	0.21	31.6	730	15.8	21.8	0.002	0.13	2.45	1.9	3.0	0.7	17.2	<0.01	0.06
ZZ59218		<0.01	0.27	25.7	760	16.1	21.4	0.001	0.17	1.76	2.1	2.1	0.6	17.5	<0.01	0.04
ZZ59219		0.01	0.20	28.9	990	17.6	20.3	0.002	0.12	2.06	2.1	3.2	0.6	20.7	<0.01	0.06
ZZ59220		0.01	0.54	58.5	1300	25.9	11.3	<0.001	0.08	2.77	4.9	3.6	0.7	75.0	<0.01	0.06
ZZ59221		0.01	0.34	53.7	1130	57.0	19.9	0.001	0.11	1.93	2.8	2.2	0.5	26.2	<0.01	0.04
ZZ59222		0.01	0.38	38.4	980	22.9	14.7	0.001	0.06	0.80	3.5	1.3	0.7	20.7	<0.01	0.03
ZZ59223		0.01	0.59	26.1	1480	16.1	14.1	<0.001	0.10	0.54	1.7	0.6	0.9	13.3	<0.01	0.04
ZZ59224		<0.01	0.31	18.8	1920	17.4	17.7	<0.001	0.10	0.57	0.4	0.7	0.7	7.7	<0.01	0.04
ZZ59225		<0.01	0.22	21.2	2030	11.2	14.5	0.001	0.11	0.50	0.2	0.6	0.7	11.0	<0.01	0.03
ZZ59226		<0.01	0.25	13.4	1530	7.1	17.1	0.001	0.08	0.42	0.2	0.2	0.7	10.7	<0.01	0.02
ZZ59227		<0.01	0.31	20.5	1660	9.1	9.6	0.001	0.08	0.75	0.3	0.9	0.7	17.0	<0.01	0.03
ZZ59228		0.01	0.28	32.8	960	13.6	7.7	<0.001	0.13	2.07	2.5	1.8	0.5	96.5	<0.01	0.03
ZZ59229		0.01	0.54	28.6	880	15.4	11.2	<0.001	0.09	1.21	2.9	1.2	0.6	37.2	<0.01	0.04
ZZ59230		0.01	0.40	30.3	1080	27.4	9.5	<0.001	0.09	0.72	3.5	0.6	0.7	13.1	<0.01	0.08
ZZ59231		0.01	0.33	27.7	1160	18.6	8.8	<0.001	0.12	1.17	3.1	1.4	0.5	64.8	<0.01	0.05
ZZ59232		0.01	0.30	52.5	1220	13.4	10.0	0.001	0.09	1.39	3.5	2.0	0.5	44.2	<0.01	0.04
ZZ59233		0.01	0.26	51.2	940	14.0	6.8	0.001	0.11	5.29	3.0	4.1	0.5	31.6	<0.01	0.03
ZZ59234		0.01	0.41	18.9	610	10.7	9.5	<0.001	0.07	0.99	1.8	0.8	0.7	52.9	<0.01	0.03
ZZ59235		<0.01	0.12	79.6	710	6.9	5.8	0.001	0.24	0.31	9.6	1.5	0.5	72.4	<0.01	0.02
ZZ59236		<0.01	0.31	39.7	500	14.5	7.3	0.001	0.05	2.00	3.0	1.6	0.5	43.7	<0.01	0.03
ZZ59237		<0.01	0.45	25.9	1200	11.5	14.3	0.001	0.06	1.21	1.3	0.8	0.6	17.7	<0.01	0.04
ZZ59238		<0.01	0.34	16.2	1120	10.2	15.6	0.001	0.09	0.57	0.5	0.2	0.7	12.0	<0.01	0.02
ZZ59239		0.01	0.42	30.9	1030	13.5	9.5	<0.001	0.08	0.34	4.2	0.7	0.6	21.3	<0.01	0.04
ZZ59240		0.01	0.45	25.3	1350	16.9	13.0	0.001	0.11	0.53	2.4	0.7	0.7	26.5	<0.01	0.05
ZZ59241		<0.01	0.45	19.9	1540	16.5	13.6	<0.001	0.08	0.43	1.7	0.3	0.7	8.4	<0.01	0.05
ZZ59242		0.01	0.35	17.8	1660	11.5	9.2	<0.001	0.13	0.41	0.6	0.6	0.7	25.7	0.01	0.02
ZZ59243		<0.01	0.36	39.1	1170	19.0	13.8	0.001	0.07	0.63	3.2	0.6	0.7	20.4	<0.01	0.04
ZZ59244		<0.01	0.36	16.1	940	13.3	8.7	<0.001	0.06	0.51	0.6	0.4	0.7	8.7	<0.01	0.04
ZZ59245		<0.01	0.38	46.8	990	19.6	10.8	0.001	0.06	0.43	4.2	0.8	0.8	14.4	<0.01	0.04
ZZ59246		0.01	0.47	27.1	1400	12.8	9.8	<0.001	0.06	0.40	1.9	0.5	0.6	11.3	<0.01	0.06
ZZ59247		0.01	0.46	17.8	1360	13.9	11.2	<0.001	0.06	0.52	0.6	0.6	0.6	9.3	<0.01	0.04
ZZ59248		0.01	0.11	66.4	600	22.3	6.0	0.002	0.04	3.53	3.6	3.1	0.3	132.5	<0.01	<0.01
ZZ59249		0.01	0.31	105.0	1420	664	11.6	0.002	0.12	6.31	3.2	3.4	0.6	58.9	<0.01	0.07
ZZ59250		<0.01	0.13	41.9	1070	25.5	16.9	0.003	0.12	2.46	2.6	2.3	0.5	40.3	<0.01	0.07
ZZ59251		0.01	0.29	955	1850	147.5	9.4	0.001	0.13	17.60	3.2	3.5	0.6	43.8	<0.01	0.05



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th	Ti	Ti	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59212		2.3	0.006	0.49	1.86	72	0.12	25.4	348	1.5
ZZ59213		0.5	0.007	0.56	1.53	85	0.17	9.13	241	<0.5
ZZ59214		2.9	0.005	5.68	4.01	181	0.26	16.70	350	<0.5
ZZ59215		1.4	0.006	0.69	1.54	80	0.10	13.45	265	0.7
ZZ59216		1.0	<0.005	0.54	1.77	49	0.05	16.55	320	<0.5
ZZ59217		1.3	<0.005	0.71	0.77	75	0.06	2.80	207	<0.5
ZZ59218		1.3	<0.005	0.61	1.10	47	0.06	4.04	150	0.6
ZZ59219		0.9	0.005	0.54	1.40	49	0.10	16.35	194	<0.5
ZZ59220		2.8	0.014	1.50	3.35	154	0.26	25.6	359	1.5
ZZ59221		1.1	0.007	1.82	1.06	87	0.10	12.95	428	1.0
ZZ59222		2.2	<0.005	0.59	1.13	60	0.06	15.15	169	1.0
ZZ59223		0.6	0.010	0.41	0.71	64	0.14	3.27	105	0.6
ZZ59224		<0.2	0.005	0.33	0.66	44	0.10	3.34	126	<0.5
ZZ59225		<0.2	0.005	0.28	0.80	49	0.11	4.15	93	<0.5
ZZ59226		<0.2	<0.005	0.27	0.78	48	0.13	2.44	60	<0.5
ZZ59227		<0.2	0.006	0.28	0.99	70	0.10	4.16	97	<0.5
ZZ59228		0.9	0.006	0.23	1.23	77	0.07	20.3	228	0.9
ZZ59229		1.3	0.012	0.21	1.06	56	0.12	11.40	110	1.0
ZZ59230		1.7	0.006	0.24	0.50	58	0.08	4.07	152	1.4
ZZ59231		0.9	0.007	0.22	1.21	46	0.06	16.05	177	1.3
ZZ59232		1.1	0.006	0.25	1.34	43	0.07	17.35	242	1.3
ZZ59233		1.0	0.005	0.37	1.95	88	0.06	24.0	332	1.4
ZZ59234		0.8	0.005	0.24	0.88	58	0.10	2.33	98	1.0
ZZ59235		3.0	<0.005	0.32	0.51	20	<0.05	10.50	89	1.2
ZZ59236		1.9	0.005	0.38	0.94	70	0.08	9.66	245	1.3
ZZ59237		0.5	0.008	0.55	0.92	70	0.16	5.37	135	0.5
ZZ59238		<0.2	0.013	0.21	0.69	52	0.17	3.62	89	<0.5
ZZ59239		1.5	0.006	0.17	0.72	45	0.09	7.74	107	0.8
ZZ59240		0.8	0.006	0.23	0.69	43	0.09	5.79	123	0.9
ZZ59241		0.6	0.008	0.24	0.58	50	0.12	3.15	83	0.7
ZZ59242		<0.2	0.008	0.30	1.19	50	0.11	6.36	90	<0.5
ZZ59243		1.0	0.005	0.54	0.67	49	0.15	5.46	143	0.9
ZZ59244		0.2	0.014	0.18	0.52	52	0.18	2.73	65	<0.5
ZZ59245		2.2	<0.005	0.29	0.54	40	0.07	5.14	131	1.8
ZZ59246		0.9	0.006	0.28	0.62	49	0.08	3.11	102	0.9
ZZ59247		0.2	0.009	0.33	0.59	51	0.14	2.58	81	<0.5
ZZ59248		3.0	<0.005	1.43	1.67	90	0.07	22.6	788	1.2
ZZ59249		1.3	0.005	3.37	2.99	298	0.44	29.6	883	1.6
ZZ59250		1.2	<0.005	0.72	2.09	54	0.06	13.55	307	<0.5
ZZ59251		1.2	0.007	3.75	3.59	359	0.68	96.5	6410	1.6



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
ZZ59252		0.33	0.009		1.13	0.77	168.0	<0.2	<10	430	0.70	0.35	0.02	0.84	16.25	8.0
ZZ59253		0.34	0.008		1.39	0.59	49.7	<0.2	<10	610	0.44	0.30	0.02	0.46	10.80	2.9
ZZ59254		0.31	0.012		2.86	1.07	150.0	<0.2	<10	940	2.04	0.18	0.35	25.2	17.50	13.8
ZZ59255		0.32	0.009		2.88	0.54	113.5	<0.2	<10	650	0.25	0.30	0.03	0.52	8.02	1.7
ZZ59256		0.30	0.008		1.28	0.85	119.5	<0.2	<10	3430	2.12	0.14	0.34	5.61	11.70	14.5
ZZ59257		0.37	0.021		1.62	1.15	131.5	<0.2	<10	540	0.59	0.33	0.10	0.68	16.90	7.0
ZZ59258		0.32	0.012		8.84	0.78	64.2	<0.2	10	1580	0.94	0.27	1.11	18.20	11.80	8.8
ZZ59259		0.26	0.010		2.95	0.56	68.5	<0.2	10	1190	0.71	0.19	1.35	1.94	7.93	6.4
ZZ59260		0.29	0.005		1.84	0.68	49.3	<0.2	<10	1670	0.77	0.23	0.13	1.39	9.95	6.1
ZZ59261		0.30	0.003		1.32	0.67	63.8	<0.2	<10	310	0.29	0.28	0.02	0.51	9.30	5.2
ZZ59262		0.27	0.004		0.93	0.69	70.4	<0.2	<10	1380	0.64	0.23	0.43	0.69	7.12	6.8
ZZ59263		0.34	0.005		3.09	0.31	22.3	<0.2	10	1130	0.36	0.16	0.12	0.77	3.13	3.2
ZZ59264		0.35	0.009		1.73	0.96	29.7	<0.2	10	1410	0.68	0.24	1.12	0.98	15.30	7.0
ZZ59265		0.27	0.005		2.20	0.71	27.0	<0.2	10	1260	0.52	0.22	0.51	0.62	10.15	5.5
ZZ59266		0.32	0.004		0.70	1.74	28.6	<0.2	<10	1070	0.90	0.27	0.35	0.38	21.6	8.5
ZZ59267		0.27	0.004		1.22	0.63	12.4	<0.2	10	1220	0.56	0.20	0.78	0.49	12.05	6.2
ZZ59268		0.30	0.003		0.26	0.54	29.7	<0.2	<10	720	0.31	0.22	0.76	0.20	9.95	4.7
ZZ59269		0.24	0.002		0.19	0.96	54.6	<0.2	<10	230	0.34	0.28	0.51	0.30	12.00	7.6
ZZ59270		0.31	0.005		1.46	1.22	52.8	<0.2	<10	650	0.79	0.21	0.78	1.12	23.6	8.2
ZZ59271		0.21	0.004		0.26	0.81	50.0	<0.2	10	250	0.43	0.20	4.38	3.09	17.25	7.6
ZZ59272		0.25	0.005		0.35	1.03	132.0	<0.2	10	750	0.79	0.23	4.30	2.02	22.8	15.5
ZZ59273		0.30	0.004		0.69	0.65	14.9	<0.2	<10	1040	0.35	0.22	1.30	0.54	25.6	5.8
ZZ59274		0.25	0.002		0.20	0.76	21.4	<0.2	<10	230	0.49	0.29	1.69	1.09	17.10	10.5
ZZ59275		0.31	0.006		0.85	0.96	37.7	<0.2	<10	1120	0.66	0.23	1.26	0.73	22.7	8.2
ZZ59276		0.33	0.004		0.24	1.19	30.4	<0.2	<10	680	0.50	0.29	0.47	0.22	18.00	5.9
ZZ59277		0.26	0.002		0.34	1.53	17.5	<0.2	<10	850	0.57	0.29	0.70	0.27	14.10	5.3
ZZ59278		0.25	0.005		2.13	0.47	12.0	<0.2	10	1810	0.52	0.15	1.18	0.42	8.20	4.3
ZZ59279		0.28	0.005		3.62	0.47	16.4	<0.2	10	1150	0.52	0.18	0.82	0.58	7.89	2.9
ZZ59280		0.28	0.023		2.54	0.61	25.3	<0.2	10	970	0.70	0.19	0.98	1.40	12.70	7.0
ZZ59281		0.27	0.005		1.67	0.82	42.1	<0.2	<10	1040	0.71	0.20	0.12	0.96	9.65	5.9
ZZ59282		0.24	0.008		1.50	0.77	146.5	<0.2	<10	1760	0.72	0.19	0.99	1.08	11.25	6.0
ZZ59283		0.23	0.007		0.91	0.90	141.0	<0.2	<10	1580	0.89	0.21	0.72	1.15	14.50	8.7
ZZ59284		0.27	0.003		1.86	0.47	31.1	<0.2	<10	1810	0.61	0.15	1.79	1.37	7.30	5.2
ZZ59285		0.31	0.003		1.00	0.84	69.3	<0.2	<10	1390	0.85	0.22	0.47	1.71	11.60	7.0
ZZ59286		0.25	0.007		6.93	1.01	146.0	<0.2	<10	1670	1.58	0.20	0.32	18.60	15.55	7.3
ZZ59287		0.21	0.005		0.67	0.87	140.0	<0.2	<10	470	0.75	0.22	0.16	1.07	13.05	7.8
ZZ59288		0.32	0.003		0.58	0.74	108.0	<0.2	<10	270	0.82	0.24	0.09	1.73	14.40	9.1
ZZ59289		0.25	0.005		0.92	0.66	143.5	<0.2	<10	590	0.71	0.28	0.16	3.07	17.35	9.1
ZZ59290		0.30	0.002		0.30	1.44	91.8	<0.2	<10	190	1.08	0.27	0.32	1.19	26.1	12.1
ZZ59291		0.21	0.003		0.63	1.16	455	<0.2	<10	230	0.92	0.21	1.13	2.70	21.0	7.7



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		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ59252		15	10.90	77.2	3.85	2.91	0.05	<0.02	0.15	0.067	0.20	6.7	3.2	0.08	192	5.90
ZZ59253		11	7.39	43.6	3.72	2.22	0.06	0.02	0.16	0.060	0.34	4.5	1.5	0.03	39	8.38
ZZ59254		31	8.88	300	8.54	2.00	0.11	0.02	0.34	0.052	0.22	8.3	2.1	0.07	1230	14.90
ZZ59255		24	4.57	31.6	2.51	4.13	<0.05	<0.02	0.16	0.047	0.21	4.2	1.3	0.03	40	18.10
ZZ59256		112	3.03	228	7.25	1.43	0.14	0.02	0.34	0.036	0.05	6.1	2.4	0.02	123	11.20
ZZ59257		33	6.68	40.5	3.74	4.41	0.05	<0.02	0.18	0.047	0.12	8.8	6.3	0.22	171	5.76
ZZ59258		61	7.26	99.3	4.09	2.10	0.10	0.02	0.59	0.057	0.13	7.8	3.5	0.09	165	30.9
ZZ59259		34	1.65	47.7	3.03	1.53	0.08	0.04	0.25	0.043	0.09	5.6	2.4	0.07	138	6.49
ZZ59260		29	2.45	49.6	3.29	2.02	0.09	0.03	0.18	0.039	0.09	4.8	4.0	0.03	82	13.30
ZZ59261		25	2.13	30.7	3.54	3.50	0.05	<0.02	0.09	0.040	0.12	4.8	2.0	0.04	547	10.60
ZZ59262		28	1.37	42.5	3.57	2.40	<0.05	0.03	0.10	0.038	0.08	4.0	4.1	0.06	94	10.55
ZZ59263		16	2.11	45.3	2.78	0.96	0.06	<0.02	0.13	0.027	0.11	2.2	1.3	0.02	53	6.86
ZZ59264		42	3.76	49.8	3.22	3.11	0.06	0.02	0.13	0.037	0.09	9.2	5.7	0.14	196	6.51
ZZ59265		36	2.28	42.3	2.75	2.31	0.05	<0.02	0.14	0.032	0.11	6.3	3.4	0.06	157	5.12
ZZ59266		38	3.84	37.6	4.28	4.88	0.05	0.02	0.07	0.046	0.12	9.4	10.8	0.24	373	4.51
ZZ59267		15	1.69	37.6	2.37	1.75	0.06	0.05	0.12	0.038	0.07	8.4	3.5	0.06	149	2.99
ZZ59268		14	3.62	25.5	2.37	2.70	<0.05	<0.02	0.08	0.028	0.05	5.0	1.7	0.05	100	2.58
ZZ59269		21	2.34	19.7	2.16	5.05	<0.05	<0.02	0.06	0.029	0.04	5.7	3.4	0.06	368	3.00
ZZ59270		35	2.71	29.1	2.77	3.35	0.07	0.03	0.18	0.042	0.07	14.4	7.0	0.20	413	3.68
ZZ59271		18	0.95	17.0	1.52	2.06	0.08	0.02	0.15	0.027	0.05	25.5	4.5	0.13	1000	1.27
ZZ59272		29	1.05	28.2	2.80	2.99	0.09	0.04	0.14	0.038	0.11	26.9	9.7	0.22	651	1.97
ZZ59273		17	5.64	18.1	2.07	3.08	0.05	<0.02	0.12	0.028	0.05	17.2	2.2	0.06	517	1.76
ZZ59274		20	0.95	25.1	2.25	2.34	0.06	0.03	0.12	0.044	0.07	16.5	5.6	0.11	607	2.30
ZZ59275		23	4.78	27.7	2.54	2.92	0.07	0.03	0.15	0.036	0.05	14.8	6.2	0.18	369	1.72
ZZ59276		27	7.49	21.6	2.83	5.54	<0.05	<0.02	0.05	0.036	0.07	9.0	7.5	0.22	222	2.25
ZZ59277		30	4.29	18.4	2.58	5.77	<0.05	0.03	0.05	0.035	0.06	7.6	8.8	0.24	278	2.06
ZZ59278		22	1.35	47.9	1.96	1.31	0.05	0.03	0.13	0.034	0.07	5.5	1.6	0.04	137	3.24
ZZ59279		33	1.77	57.2	1.83	1.36	0.06	0.02	0.21	0.028	0.10	4.9	1.4	0.03	103	3.85
ZZ59280		38	2.72	57.7	3.59	1.42	0.08	0.06	0.13	0.049	0.20	8.8	2.1	0.04	178	6.04
ZZ59281		28	1.37	45.2	3.06	2.37	0.05	0.03	0.07	0.039	0.11	5.6	3.8	0.07	196	6.00
ZZ59282		24	0.86	33.4	2.54	2.62	<0.05	0.09	0.15	0.039	0.09	6.3	6.0	0.10	234	6.73
ZZ59283		23	1.06	33.3	3.08	3.29	<0.05	0.07	0.15	0.038	0.10	7.4	7.5	0.12	417	5.46
ZZ59284		24	1.22	29.4	2.07	1.33	<0.05	0.03	0.19	0.026	0.04	5.3	1.9	0.03	459	4.79
ZZ59285		29	2.76	36.3	2.71	3.10	<0.05	<0.02	0.08	0.037	0.06	6.5	6.0	0.12	277	7.63
ZZ59286		86	2.79	117.5	3.38	3.22	0.09	0.02	0.30	0.059	0.08	13.3	5.9	0.08	309	47.0
ZZ59287		16	2.42	36.3	2.80	3.19	<0.05	<0.02	0.12	0.038	0.08	6.4	5.7	0.12	408	3.93
ZZ59288		16	4.17	37.6	3.14	2.67	<0.05	<0.02	0.13	0.038	0.11	6.2	4.4	0.09	493	4.34
ZZ59289		14	6.30	46.2	3.20	2.78	0.05	0.02	0.12	0.049	0.17	8.2	5.0	0.10	373	6.13
ZZ59290		22	1.51	27.6	3.95	4.88	<0.05	0.04	0.08	0.042	0.06	9.5	20.7	0.27	677	2.91
ZZ59291		19	1.34	18.7	2.90	3.54	<0.05	0.09	0.17	0.034	0.07	12.5	8.9	0.16	229	3.59

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ59252		0.01	0.28	37.3	960	28.2	25.1	0.001	0.30	3.12	3.3	2.8	0.6	49.0	<0.01	0.14
ZZ59253		0.02	0.17	20.3	1020	20.7	24.2	0.002	0.67	4.24	2.0	4.5	0.7	60.1	<0.01	0.12
ZZ59254		0.02	0.14	147.0	2730	24.0	17.9	0.002	0.42	9.00	6.9	11.3	0.6	137.5	<0.01	0.14
ZZ59255		0.01	0.28	15.2	780	20.8	20.0	0.002	0.31	4.72	1.7	4.5	0.9	76.8	<0.01	0.13
ZZ59256		0.03	0.05	255	3020	14.3	6.9	0.005	0.11	3.41	9.5	22.7	0.4	121.0	<0.01	0.07
ZZ59257		0.01	0.21	62.8	2020	20.5	12.5	0.002	0.21	1.90	1.7	7.3	0.7	125.0	<0.01	0.11
ZZ59258		0.02	0.12	172.0	2920	18.6	10.4	0.010	0.23	7.02	9.6	16.7	0.7	264	<0.01	0.17
ZZ59259		0.02	0.10	85.4	2060	12.4	6.9	0.005	0.10	2.22	7.2	7.1	0.5	170.0	<0.01	0.10
ZZ59260		0.01	0.11	92.0	1480	17.0	9.0	0.006	0.10	2.24	4.1	14.2	0.6	73.5	<0.01	0.05
ZZ59261		<0.01	0.33	48.8	950	16.5	11.9	0.002	0.19	1.59	3.0	8.7	0.7	72.7	<0.01	0.08
ZZ59262		0.01	0.16	90.5	1040	16.2	8.4	0.003	0.11	2.25	3.1	8.2	0.6	116.0	<0.01	0.13
ZZ59263		0.02	<0.05	62.0	1000	10.1	9.1	0.002	0.42	1.51	3.1	6.2	0.4	160.0	<0.01	0.11
ZZ59264		0.02	0.35	72.5	2290	13.9	12.2	0.004	0.10	1.57	3.7	6.6	0.6	86.0	<0.01	0.13
ZZ59265		0.03	0.26	57.2	1930	12.2	10.8	0.004	0.27	1.51	2.1	6.5	0.5	75.1	<0.01	0.09
ZZ59266		0.03	0.40	45.3	1580	15.4	17.2	0.002	0.27	1.19	2.7	3.9	0.7	71.5	<0.01	0.09
ZZ59267		0.01	0.15	46.0	890	12.2	9.8	0.003	0.08	0.98	4.0	2.5	0.4	46.3	<0.01	0.12
ZZ59268		0.01	0.29	29.6	930	12.1	9.1	0.001	0.08	1.23	1.3	1.6	0.6	39.9	<0.01	0.14
ZZ59269		0.01	0.51	24.9	1610	15.5	7.1	0.001	0.14	1.11	1.1	1.1	0.8	20.4	<0.01	0.07
ZZ59270		0.01	0.38	49.1	1090	13.9	11.1	0.001	0.08	1.23	3.5	2.8	0.5	46.7	<0.01	0.07
ZZ59271		0.01	0.32	19.8	1800	13.0	5.3	0.002	0.23	0.53	1.2	1.9	0.4	32.4	<0.01	0.09
ZZ59272		0.02	0.31	54.2	1880	20.2	7.5	0.001	0.15	1.15	1.8	2.8	0.5	46.0	<0.01	0.16
ZZ59273		0.01	0.38	21.0	1710	11.1	13.0	0.001	0.18	0.77	1.1	1.4	0.6	33.9	<0.01	0.08
ZZ59274		0.01	0.36	37.9	1340	16.2	7.4	0.002	0.14	0.79	1.7	2.1	0.5	25.9	<0.01	0.42
ZZ59275		0.02	0.40	37.2	1310	13.5	9.0	0.002	0.13	1.09	2.5	2.7	0.5	41.3	<0.01	0.08
ZZ59276		0.01	0.38	30.3	870	14.1	13.9	0.002	0.06	1.00	1.1	1.1	0.8	25.3	<0.01	0.05
ZZ59277		0.01	0.41	23.4	2330	12.5	13.9	0.001	0.13	0.69	1.2	1.1	0.7	32.1	0.01	0.02
ZZ59278		0.02	0.07	45.3	1310	9.1	6.3	0.003	0.10	1.08	4.0	3.7	0.4	60.1	<0.01	0.10
ZZ59279		0.02	0.06	34.4	1680	9.6	10.0	0.004	0.24	0.96	3.9	5.8	0.4	125.0	<0.01	0.10
ZZ59280		0.03	0.09	75.4	4270	11.2	15.4	0.004	0.58	1.60	4.9	7.6	0.5	164.5	<0.01	0.11
ZZ59281		0.02	0.12	52.1	2160	11.8	10.4	0.002	0.28	1.18	2.2	6.8	0.5	83.8	0.01	0.13
ZZ59282		0.01	0.23	49.8	1470	15.7	7.4	0.002	0.15	1.62	3.6	5.3	0.4	148.5	<0.01	0.09
ZZ59283		0.01	0.26	48.4	1580	22.9	8.8	0.001	0.11	1.61	3.3	3.4	0.5	110.5	<0.01	0.07
ZZ59284		0.01	0.12	55.6	1280	10.6	4.3	0.002	0.12	1.55	2.5	6.4	0.3	229	<0.01	0.06
ZZ59285		0.01	0.11	61.1	1960	15.2	9.3	0.003	0.09	2.01	0.5	5.5	0.5	90.9	<0.01	0.10
ZZ59286		0.01	0.13	134.5	3090	18.7	11.9	0.004	0.18	13.00	0.9	16.7	0.5	85.6	<0.01	0.15
ZZ59287		<0.01	0.18	33.5	1580	30.3	14.2	0.001	0.10	1.99	0.9	2.2	0.5	20.9	<0.01	0.08
ZZ59288		<0.01	0.11	35.5	1810	37.7	13.9	0.001	0.11	2.36	0.6	2.1	0.5	20.0	<0.01	0.07
ZZ59289		0.01	0.17	36.6	1460	26.5	21.0	<0.001	0.29	3.24	2.1	3.5	0.6	49.6	<0.01	0.12
ZZ59290		<0.01	0.33	31.4	1470	68.9	11.1	<0.001	0.06	1.24	2.4	1.0	0.5	14.9	<0.01	0.06
ZZ59291		<0.01	0.31	53.6	1170	168.0	11.7	<0.001	0.09	2.07	3.0	2.0	0.5	36.8	<0.01	0.08



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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59252		3.7	0.007	0.97	1.64	73	0.11	8.80	256	<0.5
ZZ59253		3.4	<0.005	0.84	1.33	66	0.05	4.37	178	<0.5
ZZ59254		3.6	0.005	1.47	7.25	257	0.10	69.1	1430	1.1
ZZ59255		1.0	0.008	1.72	1.62	134	0.11	4.12	72	<0.5
ZZ59256		0.4	<0.005	0.45	6.62	327	<0.05	75.3	1220	1.5
ZZ59257		0.2	0.015	1.30	2.53	94	0.25	12.00	248	<0.5
ZZ59258		1.4	0.005	1.35	8.07	165	0.28	64.2	665	0.8
ZZ59259		1.4	<0.005	0.26	3.63	68	0.09	48.3	334	1.9
ZZ59260		0.8	<0.005	0.33	5.18	74	0.10	24.2	344	1.2
ZZ59261		0.5	0.010	0.45	1.53	80	0.14	5.46	202	<0.5
ZZ59262		1.7	<0.005	0.40	1.93	79	0.11	11.05	320	1.2
ZZ59263		0.6	<0.005	0.33	2.63	45	0.05	21.8	158	<0.5
ZZ59264		0.9	0.010	0.30	3.94	78	0.12	20.7	243	0.9
ZZ59265		0.6	0.008	0.26	3.10	65	0.10	13.40	192	0.5
ZZ59266		0.6	0.011	0.27	3.22	88	0.18	13.90	188	0.8
ZZ59267		1.3	<0.005	0.18	2.84	39	<0.05	20.0	161	1.3
ZZ59268		0.3	0.010	0.47	1.03	45	0.19	5.56	106	<0.5
ZZ59269		0.2	0.011	0.45	0.80	81	0.18	4.58	102	<0.5
ZZ59270		0.9	0.011	0.46	2.67	67	0.26	25.7	171	1.0
ZZ59271		0.3	0.008	0.17	1.39	36	0.09	41.7	191	0.7
ZZ59272		0.5	0.007	0.44	1.39	47	0.15	48.0	273	1.0
ZZ59273		0.2	0.014	0.24	1.72	45	0.15	20.4	83	<0.5
ZZ59274		0.5	0.010	0.25	1.22	39	0.09	27.1	177	0.9
ZZ59275		0.6	0.013	0.60	2.86	51	0.13	26.4	133	0.9
ZZ59276		0.2	0.018	0.58	0.92	69	0.27	5.72	115	<0.5
ZZ59277		0.3	0.013	0.34	1.37	69	0.24	6.43	95	0.6
ZZ59278		1.2	<0.005	0.13	3.61	49	<0.05	22.4	149	1.5
ZZ59279		1.5	<0.005	0.22	3.83	46	<0.05	21.9	111	1.0
ZZ59280		1.2	<0.005	0.32	4.36	55	0.05	29.1	291	2.5
ZZ59281		0.5	0.005	0.21	3.37	65	0.09	16.95	206	0.9
ZZ59282		1.0	<0.005	0.32	2.22	59	0.09	18.60	203	3.0
ZZ59283		1.0	0.005	0.42	2.25	65	0.11	16.15	223	1.9
ZZ59284		0.3	<0.005	0.18	3.34	57	0.11	29.8	170	1.2
ZZ59285		<0.2	0.005	0.35	3.44	66	0.15	16.05	246	<0.5
ZZ59286		<0.2	<0.005	1.58	14.45	264	0.25	48.2	665	<0.5
ZZ59287		0.2	<0.005	0.43	1.30	57	0.10	7.67	234	<0.5
ZZ59288		0.2	<0.005	0.47	1.52	52	0.09	8.04	264	<0.5
ZZ59289		0.8	0.005	0.73	1.60	57	0.11	15.20	244	0.5
ZZ59290		0.8	0.008	0.46	1.00	57	0.15	8.00	254	0.9
ZZ59291		1.6	<0.005	1.25	1.21	83	0.09	10.70	583	1.9



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
ZZ59292		0.23	0.001		0.48	0.70	277	<0.2	<10	190	0.72	0.17	2.42	5.86	24.7	7.6
ZZ59293		0.22	0.003		1.21	0.67	328	<0.2	<10	190	0.93	0.17	1.41	1.49	35.3	9.1
ZZ59294		0.33	0.002		0.17	1.46	20.4	<0.2	<10	240	0.75	0.24	0.57	0.22	20.8	13.1
ZZ59295		0.28	0.001		0.10	1.15	36.3	<0.2	<10	320	1.29	0.12	0.96	0.21	66.3	13.3
ZZ59296		0.21	0.004		0.32	0.78	10.4	<0.2	<10	230	0.67	0.14	2.21	1.00	19.60	6.4
ZZ59297		0.27	0.002		0.19	0.99	12.7	<0.2	<10	460	0.62	0.16	0.80	0.13	21.0	5.2
ZZ59298		0.33	0.002		0.03	1.32	31.4	<0.2	<10	220	0.91	0.14	0.34	0.13	31.2	14.8
ZZ59299		0.28	0.003		0.16	1.49	14.6	<0.2	<10	150	0.56	0.20	0.08	0.32	17.90	8.8
ZZ59300		0.27	0.002		0.06	1.47	20.0	<0.2	<10	150	0.48	0.26	0.06	0.18	18.20	12.8
ZZ59301		0.27	0.003		0.08	1.67	27.7	<0.2	<10	290	1.05	0.27	0.38	0.46	28.9	12.6
ZZ59302		0.27	0.003		0.18	1.64	15.1	<0.2	<10	250	0.77	0.25	0.28	0.33	29.2	9.1
ZZ59303		0.26	0.002		0.33	1.47	40.2	<0.2	<10	210	0.78	0.25	0.58	0.74	32.1	9.6
ZZ59304		0.25	0.002		0.17	1.29	15.4	<0.2	<10	410	0.90	0.20	1.18	0.49	22.2	8.2
ZZ59305		0.32	0.002		0.09	1.35	6.7	<0.2	<10	890	2.35	0.30	0.65	0.17	61.0	9.3
ZZ59306		0.27	0.002		0.05	1.69	9.8	<0.2	<10	390	1.56	0.14	1.15	0.12	52.3	10.0
ZZ59307		0.30	0.003		0.14	1.35	8.9	<0.2	<10	570	1.07	0.12	0.74	0.39	39.6	10.8
ZZ59308		0.25	0.003		0.15	1.26	24.3	<0.2	<10	350	0.84	0.21	1.17	0.24	17.25	6.9
ZZ59309		0.29	0.003		1.62	0.54	29.7	<0.2	<10	160	1.24	0.22	0.70	7.77	40.9	13.4
ZZ59310		0.29	0.002		0.53	1.09	21.3	<0.2	<10	260	0.86	0.24	0.96	1.66	25.9	10.2
ZZ59311		0.20	0.003		0.30	0.79	17.4	<0.2	<10	210	0.67	0.14	2.72	2.35	18.15	5.7
ZZ59312		0.26	0.002		0.13	1.50	20.2	<0.2	<10	160	0.77	0.28	0.11	0.34	35.8	10.6
ZZ59313		0.33	0.007		3.02	0.48	22.7	<0.2	10	700	0.63	0.18	1.15	1.00	6.02	6.2
ZZ59314		0.32	0.010		2.31	0.31	13.1	<0.2	10	690	0.39	0.13	2.21	0.83	3.92	3.0
ZZ59315		0.32	0.007		3.33	0.71	19.5	<0.2	10	1230	0.65	0.20	0.84	1.23	8.80	7.6
ZZ59316		0.38	0.007		4.09	0.42	34.5	<0.2	10	1380	0.69	0.16	0.83	0.82	5.03	6.1
ZZ59317		0.32	0.004		2.69	0.58	33.1	<0.2	<10	1200	0.67	0.17	0.23	0.87	6.63	8.2
ZZ59318		0.27	0.007		3.66	0.31	27.8	<0.2	10	490	0.50	0.19	0.96	1.09	4.03	8.3
ZZ59319		0.27	0.007		3.34	0.48	22.1	<0.2	10	1000	0.62	0.20	0.86	1.05	6.09	4.7
ZZ59320		0.27	0.006		4.44	0.40	26.7	<0.2	10	1430	0.59	0.19	0.55	0.89	4.61	4.3
ZZ59321		0.29	0.006		1.62	0.56	25.7	<0.2	10	2050	0.67	0.20	1.01	0.65	5.12	4.8
ZZ59322		0.27	0.005		0.52	0.56	26.9	<0.2	<10	1110	0.27	0.21	0.35	0.16	3.27	2.5
ZZ59323		0.37	0.003		3.00	0.31	15.3	<0.2	10	1010	0.43	0.19	0.20	0.62	3.02	1.9
ZZ59324		0.23	0.007		2.87	0.49	18.2	<0.2	<10	1440	0.46	0.20	0.36	0.49	3.74	2.3
ZZ59325		0.28	0.005		2.31	0.29	20.0	<0.2	<10	800	0.34	0.20	0.13	0.25	3.21	2.6
ZZ59326		0.28	0.004		1.50	0.92	22.8	<0.2	<10	1080	0.62	0.22	0.47	0.48	11.05	5.0
ZZ59327		0.32	0.007		2.94	0.54	32.3	<0.2	10	1300	0.61	0.20	0.59	0.78	5.78	4.0
ZZ59328		0.29	0.005		2.92	0.49	37.4	<0.2	10	1290	0.66	0.21	0.45	0.75	5.85	4.3
ZZ59329		0.28	0.005		1.35	0.74	46.1	<0.2	<10	1640	0.61	0.23	0.11	0.92	8.16	6.3
ZZ59330		0.27	0.005		1.82	0.61	63.5	<0.2	<10	2130	0.79	0.18	0.21	1.58	8.01	7.5
ZZ59331		0.25	0.003		1.26	0.38	59.1	<0.2	<10	470	0.40	0.21	0.01	0.28	4.71	10.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ59292		12	1.30	17.9	1.97	2.21	<0.05	0.03	0.15	0.026	0.06	15.5	5.0	0.10	392	2.19
ZZ59293		12	0.88	21.1	2.17	1.79	0.06	0.07	0.31	0.033	0.07	21.9	4.6	0.09	342	3.08
ZZ59294		29	1.61	28.6	4.27	4.83	<0.05	0.05	0.06	0.038	0.08	8.6	15.7	0.23	545	1.59
ZZ59295		13	1.20	14.7	5.95	3.69	0.08	0.04	0.06	0.059	0.08	29.0	10.9	0.15	1150	2.20
ZZ59296		13	0.35	16.8	1.87	2.44	<0.05	0.03	0.08	0.023	0.08	11.0	6.1	0.15	380	1.69
ZZ59297		13	0.75	19.0	1.99	3.36	<0.05	0.06	0.06	0.029	0.07	11.9	4.0	0.08	69	2.63
ZZ59298		50	4.48	18.1	4.05	4.08	<0.05	0.04	0.02	0.063	0.09	12.3	7.1	0.10	212	1.22
ZZ59299		26	1.40	20.3	3.52	5.02	<0.05	0.03	0.04	0.033	0.07	9.3	13.0	0.22	298	2.50
ZZ59300		27	2.09	22.6	3.84	5.58	<0.05	0.03	0.03	0.037	0.06	8.8	12.1	0.20	420	1.99
ZZ59301		25	1.43	25.8	3.48	5.07	<0.05	0.05	0.05	0.037	0.07	12.6	15.0	0.28	902	2.03
ZZ59302		28	1.48	17.7	2.91	5.42	<0.05	0.03	0.05	0.034	0.06	16.0	13.9	0.34	467	1.54
ZZ59303		23	1.38	21.3	4.02	4.82	<0.05	0.02	0.26	0.039	0.06	16.9	11.9	0.18	543	3.20
ZZ59304		18	1.35	16.6	2.75	3.62	<0.05	0.06	0.07	0.037	0.07	12.4	11.7	0.19	814	1.19
ZZ59305		9	1.07	14.5	3.86	4.84	0.09	0.06	0.05	0.091	0.11	29.0	13.4	0.27	954	1.01
ZZ59306		26	0.61	9.1	3.89	5.70	0.05	0.05	0.04	0.057	0.06	19.9	10.2	0.17	712	1.04
ZZ59307		17	0.77	16.8	4.08	3.25	0.06	0.05	0.08	0.045	0.08	16.4	7.2	0.08	528	2.62
ZZ59308		16	0.74	17.0	2.36	4.08	<0.05	0.06	0.05	0.035	0.05	9.7	5.7	0.12	440	2.41
ZZ59309		12	1.28	41.8	3.08	1.94	0.08	0.07	0.17	0.048	0.09	29.6	3.8	0.07	263	20.6
ZZ59310		16	0.81	25.6	3.06	3.87	<0.05	0.07	0.06	0.040	0.09	14.0	9.0	0.16	517	4.55
ZZ59311		10	0.50	16.8	1.85	2.46	<0.05	0.03	0.09	0.025	0.05	15.4	4.5	0.10	383	2.44
ZZ59312		23	1.23	21.8	3.37	5.02	<0.05	0.04	0.03	0.042	0.08	14.5	14.4	0.27	636	2.15
ZZ59313		25	1.42	64.7	2.36	1.53	<0.05	0.04	0.22	0.038	0.08	5.0	2.4	0.09	113	4.31
ZZ59314		18	1.56	44.0	1.59	0.91	<0.05	0.05	0.21	0.028	0.07	3.4	1.2	0.04	74	2.53
ZZ59315		32	1.12	79.6	2.50	1.97	0.05	0.04	0.23	0.039	0.09	6.6	4.4	0.11	143	4.88
ZZ59316		29	0.83	76.0	3.85	1.24	0.06	0.05	0.27	0.042	0.08	4.1	2.9	0.04	97	6.88
ZZ59317		28	0.71	61.6	3.33	1.68	0.05	0.02	0.13	0.042	0.09	4.6	1.7	0.03	154	6.48
ZZ59318		23	1.35	71.1	3.76	1.03	0.10	0.05	0.23	0.038	0.10	2.9	1.0	0.07	130	6.45
ZZ59319		26	0.72	59.5	2.46	1.52	0.07	0.04	0.21	0.034	0.08	4.4	2.3	0.05	99	5.15
ZZ59320		25	0.93	47.4	2.60	1.20	0.07	0.03	0.22	0.031	0.09	3.6	1.5	0.03	94	6.43
ZZ59321		17	0.54	42.3	2.35	1.71	<0.05	0.06	0.18	0.031	0.07	3.4	2.3	0.11	93	4.21
ZZ59322		16	1.65	20.7	2.09	2.46	<0.05	0.02	0.06	0.027	0.07	1.9	1.2	0.06	23	5.20
ZZ59323		21	0.52	39.0	1.94	1.13	0.06	0.02	0.13	0.027	0.09	2.5	1.3	0.01	31	6.52
ZZ59324		23	0.76	38.3	2.18	1.79	<0.05	0.03	0.19	0.024	0.09	2.9	1.4	0.03	43	6.43
ZZ59325		20	0.96	34.4	2.18	1.39	0.05	<0.02	0.11	0.026	0.11	2.5	0.9	0.02	40	6.56
ZZ59326		26	1.73	33.3	2.96	3.24	0.05	0.02	0.12	0.032	0.06	6.2	5.7	0.16	154	5.22
ZZ59327		23	1.78	49.2	2.62	1.64	0.05	0.03	0.20	0.030	0.08	3.7	3.0	0.06	82	6.19
ZZ59328		22	1.48	55.1	2.98	1.46	0.06	0.02	0.20	0.033	0.09	3.7	2.5	0.05	78	6.85
ZZ59329		24	2.09	41.7	3.18	2.30	0.06	0.03	0.12	0.030	0.07	4.4	3.8	0.06	182	6.66
ZZ59330		23	2.06	40.1	4.53	1.87	0.06	0.02	0.25	0.032	0.06	4.6	2.3	0.04	254	6.60
ZZ59331		26	2.17	58.3	5.36	1.72	0.05	<0.02	0.08	0.036	0.05	2.9	0.5	0.02	106	8.33



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ59292		<0.01	0.34	36.6	1200	32.0	9.8	0.001	0.15	1.59	1.5	2.1	0.3	63.0	<0.01	0.04
ZZ59293		<0.01	0.15	48.1	1210	124.0	7.2	0.001	0.09	1.66	2.6	2.3	0.3	42.3	<0.01	0.06
ZZ59294		<0.01	0.34	34.9	1390	16.7	11.7	<0.001	0.06	0.53	3.5	0.9	0.5	25.4	<0.01	0.06
ZZ59295		0.01	0.33	24.4	1430	10.9	6.7	0.001	0.08	0.31	5.2	1.0	0.6	51.2	<0.01	0.02
ZZ59296		0.01	0.32	21.4	1070	9.0	7.0	0.001	0.14	0.89	1.2	1.2	0.3	43.6	<0.01	0.04
ZZ59297		<0.01	0.25	22.7	1140	10.3	12.5	<0.001	0.09	0.87	2.1	1.3	0.4	21.0	<0.01	0.07
ZZ59298		<0.01	0.24	42.3	980	9.7	11.9	<0.001	0.03	0.43	4.5	1.0	0.6	13.1	<0.01	0.05
ZZ59299		0.01	0.43	28.4	1250	13.4	10.8	<0.001	0.11	0.77	1.5	0.8	0.6	16.1	0.01	0.04
ZZ59300		<0.01	0.57	35.6	740	16.7	12.2	<0.001	0.04	0.76	2.5	0.5	0.7	9.5	<0.01	0.05
ZZ59301		0.01	0.40	32.1	1430	21.7	13.1	<0.001	0.06	0.94	2.9	1.5	0.6	20.7	<0.01	0.05
ZZ59302		0.01	0.40	25.4	1330	14.4	13.8	0.001	0.06	0.74	2.2	1.0	0.5	17.4	<0.01	0.03
ZZ59303		<0.01	0.43	33.0	1290	18.5	12.0	<0.001	0.06	1.26	2.1	1.4	0.6	22.6	<0.01	0.08
ZZ59304		0.01	0.42	24.2	1860	12.9	11.5	0.001	0.16	0.45	2.3	0.9	0.5	36.9	<0.01	0.02
ZZ59305		0.01	0.43	18.4	830	17.2	8.9	<0.001	0.04	0.30	4.6	1.5	1.1	27.3	<0.01	0.04
ZZ59306		<0.01	0.46	13.9	1300	9.6	8.8	<0.001	0.06	0.30	4.2	0.9	0.8	40.6	<0.01	0.06
ZZ59307		0.01	0.29	45.3	1170	9.8	9.1	<0.001	0.09	0.42	4.7	0.7	0.6	30.6	<0.01	0.03
ZZ59308		0.01	0.38	20.6	2080	11.5	11.0	<0.001	0.11	0.75	2.0	0.8	0.5	32.2	<0.01	0.04
ZZ59309		<0.01	0.09	79.5	470	17.8	9.5	0.003	0.04	14.90	5.0	4.5	0.4	22.3	<0.01	0.06
ZZ59310		<0.01	0.35	29.8	1010	21.9	11.1	<0.001	0.07	2.30	3.0	1.7	0.5	41.5	<0.01	0.06
ZZ59311		<0.01	0.28	17.6	1260	12.2	8.3	<0.001	0.17	1.18	1.1	0.9	0.3	65.0	<0.01	0.04
ZZ59312		<0.01	0.47	30.9	1180	21.3	16.7	<0.001	0.06	0.89	2.5	1.1	0.6	9.0	<0.01	0.06
ZZ59313		0.01	0.12	93.0	1460	10.2	7.9	0.003	0.11	1.45	4.5	6.0	0.4	80.4	<0.01	0.17
ZZ59314		0.01	0.07	46.9	1320	7.4	6.5	0.005	0.21	1.14	2.3	7.7	0.3	96.8	<0.01	0.13
ZZ59315		0.01	0.19	94.1	1660	10.3	8.2	0.002	0.12	1.41	5.3	5.8	0.4	98.5	<0.01	0.15
ZZ59316		0.02	0.07	104.0	1970	9.8	7.0	0.004	0.17	2.12	8.1	8.8	0.4	129.5	<0.01	0.16
ZZ59317		0.01	0.12	78.7	2120	10.3	7.3	0.004	0.16	1.55	4.5	7.5	0.4	85.8	<0.01	0.16
ZZ59318		0.02	<0.05	129.0	1840	11.0	8.6	0.024	0.57	1.92	8.5	11.8	0.5	187.0	<0.01	0.13
ZZ59319		0.01	0.09	96.3	1540	10.7	7.2	0.003	0.16	1.29	4.9	8.7	0.5	126.0	<0.01	0.15
ZZ59320		0.01	0.06	83.3	1520	10.0	7.3	0.003	0.16	1.65	5.1	7.9	0.5	123.0	<0.01	0.17
ZZ59321		0.01	0.15	63.3	800	11.4	6.3	0.002	0.10	1.34	4.5	4.8	0.5	110.5	<0.01	0.10
ZZ59322		0.01	0.13	39.9	800	10.9	8.5	0.001	0.12	1.51	2.0	3.8	0.6	76.6	<0.01	0.10
ZZ59323		0.01	<0.05	45.9	990	9.9	6.8	0.002	0.26	1.17	3.2	6.1	0.5	86.5	<0.01	0.18
ZZ59324		0.01	0.09	41.0	1390	10.9	9.1	0.002	0.34	1.12	1.8	7.4	0.6	83.8	<0.01	0.14
ZZ59325		0.01	0.07	47.4	1390	10.2	9.4	0.001	0.27	1.27	0.6	5.6	0.5	78.1	<0.01	0.21
ZZ59326		0.01	0.29	46.3	1490	10.2	9.1	0.002	0.10	1.27	2.0	3.7	0.6	68.5	<0.01	0.12
ZZ59327		0.01	0.09	71.2	1440	11.1	9.3	0.004	0.17	1.49	3.8	8.2	0.5	123.5	<0.01	0.15
ZZ59328		0.01	0.09	84.0	1530	12.4	8.4	0.002	0.20	1.60	4.5	7.2	0.5	143.0	<0.01	0.16
ZZ59329		0.01	0.17	59.9	1320	14.4	10.3	0.002	0.13	1.53	2.7	6.0	0.5	75.3	<0.01	0.13
ZZ59330		0.01	0.17	94.3	1630	13.7	8.3	0.002	0.17	1.77	5.0	6.6	0.5	96.3	<0.01	0.11
ZZ59331		<0.01	0.15	138.5	560	13.5	8.3	0.001	0.04	1.58	10.5	6.7	0.5	27.6	<0.01	0.08



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59292		0.6	0.007	0.98	1.39	51	0.09	14.30	606	0.8
ZZ59293		1.2	<0.005	1.11	0.95	55	0.05	20.2	520	1.6
ZZ59294		1.0	0.007	0.23	0.68	44	0.09	5.87	76	1.2
ZZ59295		2.5	<0.005	0.10	0.43	26	<0.05	16.80	60	1.4
ZZ59296		0.5	0.006	0.15	1.81	30	0.10	11.30	99	0.9
ZZ59297		1.1	<0.005	0.18	1.11	47	0.07	8.67	80	0.8
ZZ59298		1.8	<0.005	0.13	0.52	45	<0.05	6.44	115	0.9
ZZ59299		0.6	0.009	0.29	0.62	44	0.20	3.27	73	0.9
ZZ59300		1.0	0.010	0.44	0.61	48	0.14	3.72	85	0.7
ZZ59301		1.3	0.009	0.28	1.50	47	1.42	8.44	133	1.1
ZZ59302		0.7	0.012	0.26	1.35	51	0.16	10.80	128	0.5
ZZ59303		0.6	0.011	0.65	1.83	50	0.16	11.05	120	<0.5
ZZ59304		0.9	0.006	0.21	1.16	27	0.07	10.85	97	1.5
ZZ59305		4.3	<0.005	0.10	0.34	15	0.11	27.0	97	2.6
ZZ59306		1.7	<0.005	0.13	0.39	43	0.07	10.45	53	1.6
ZZ59307		1.7	<0.005	0.36	0.56	30	0.05	10.70	75	1.6
ZZ59308		0.9	0.005	0.20	1.14	46	0.09	6.96	83	1.3
ZZ59309		2.2	<0.005	0.61	3.32	186	<0.05	35.9	719	2.5
ZZ59310		1.4	0.005	0.30	1.62	62	0.10	11.75	174	1.6
ZZ59311		0.4	0.005	0.25	2.14	36	0.05	16.80	139	0.9
ZZ59312		1.2	0.009	0.24	1.34	47	0.14	10.40	151	1.0
ZZ59313		1.1	<0.005	0.23	3.40	49	0.07	33.8	296	1.4
ZZ59314		0.7	<0.005	0.16	2.83	30	<0.05	19.45	167	2.5
ZZ59315		1.0	0.006	0.17	3.30	55	0.11	38.2	314	1.5
ZZ59316		1.7	<0.005	0.20	6.03	64	0.07	40.5	290	2.4
ZZ59317		1.0	<0.005	0.19	3.97	65	0.07	31.1	240	1.0
ZZ59318		2.2	<0.005	0.28	4.23	46	0.05	39.2	380	1.7
ZZ59319		1.1	<0.005	0.16	2.52	52	<0.05	29.0	231	1.7
ZZ59320		1.0	<0.005	0.19	2.87	58	0.05	30.4	242	1.5
ZZ59321		1.0	<0.005	0.17	2.20	58	0.06	21.7	199	2.3
ZZ59322		0.4	<0.005	0.24	0.89	70	0.05	6.08	132	0.5
ZZ59323		1.4	<0.005	0.14	2.03	52	<0.05	20.1	134	1.1
ZZ59324		0.4	<0.005	0.22	2.43	59	<0.05	18.35	113	0.7
ZZ59325		<0.2	<0.005	0.20	1.67	60	<0.05	11.85	149	<0.5
ZZ59326		0.4	0.009	0.19	2.37	60	0.15	16.25	160	0.6
ZZ59327		0.5	<0.005	0.28	3.70	57	0.05	29.4	215	0.8
ZZ59328		0.7	<0.005	0.28	3.66	59	0.06	28.8	248	1.0
ZZ59329		0.5	0.006	0.34	2.31	70	0.09	18.20	216	0.9
ZZ59330		0.3	0.005	0.41	2.60	96	0.07	45.3	251	0.6
ZZ59331		0.8	<0.005	0.34	1.92	73	<0.05	14.60	340	0.6



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Au Check ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
ZZ59332		0.30	0.002		0.88	0.69	91.3	<0.2	<10	1730	0.64	0.23	0.20	0.48	7.51	6.0
ZZ59333		0.28	0.006		2.00	0.86	89.7	<0.2	<10	1820	0.79	0.28	0.23	0.80	13.35	6.7
ZZ59334		0.30	0.005		1.46	0.60	136.5	<0.2	<10	930	0.45	0.28	0.44	0.47	11.55	4.9
ZZ59335		0.29	0.006		1.38	1.05	253	<0.2	<10	1680	1.02	0.24	0.68	0.82	14.75	8.9
ZZ59336		0.27	0.007		3.25	0.62	61.1	<0.2	10	1980	0.89	0.20	1.08	1.42	8.75	4.8
ZZ59337		0.27	0.005		1.43	0.86	113.5	<0.2	<10	1610	0.84	0.21	1.22	2.03	12.60	5.2
ZZ59338		0.32	0.004		2.37	0.42	61.0	<0.2	<10	1400	0.63	0.21	0.23	1.39	4.64	7.4
ZZ59339		0.27	0.004		0.83	0.85	51.5	<0.2	<10	980	0.57	0.22	0.18	1.62	12.25	5.5
ZZ59340		0.28	0.008		2.57	0.68	60.8	<0.2	<10	1050	0.72	0.19	0.76	1.54	11.30	8.5
ZZ59341		0.32	0.004		0.78	0.57	35.5	<0.2	<10	2050	0.51	0.19	0.16	0.60	6.14	4.8
ZZ59342		0.27	0.004		0.39	0.42	30.8	<0.2	<10	780	0.30	0.15	0.14	1.07	5.16	4.3
ZZ59343		0.27	0.007		1.21	0.95	75.5	<0.2	<10	1470	0.84	0.23	0.84	1.66	12.75	7.3
ZZ59344		0.30	0.079		1.92	0.60	107.5	<0.2	<10	1260	0.60	0.24	1.15	2.19	8.71	4.9
ZZ59345		0.29	0.004		1.06	1.00	317	<0.2	<10	690	0.61	0.28	0.22	0.75	13.55	9.2
ZZ59346		0.27	0.005		0.85	0.53	370	<0.2	<10	350	0.50	0.28	0.01	0.46	5.68	5.5
ZZ59347		0.29	0.046		3.25	0.75	154.5	<0.2	<10	1670	0.89	0.24	0.30	2.68	6.78	11.1
ZZ59348		0.25	0.007		2.14	0.64	83.3	<0.2	<10	2820	0.69	0.21	0.64	2.70	6.54	6.4
ZZ59349		0.24	0.012		1.91	0.85	126.5	<0.2	<10	2090	0.81	0.23	0.36	3.69	11.80	9.2
ZZ59350		0.30	1.545	1.565	2.62	0.93	682	0.9	<10	1640	1.03	0.24	0.68	2.54	15.65	9.8
ZZ59351		0.28	0.026		3.68	0.37	64.9	<0.2	10	1110	0.62	0.25	0.45	3.02	5.32	5.5
ZZ59352		0.28	0.405		3.55	0.59	227	0.2	<10	1130	1.12	0.26	0.65	4.20	8.55	9.5
ZZ59353		0.31	0.009		2.35	0.35	84.5	<0.2	10	1580	0.59	0.21	0.52	2.89	5.17	3.4
ZZ59354		0.33	0.256		3.03	0.58	274	<0.2	10	1200	1.04	0.20	0.67	4.57	8.74	8.3
ZZ59355		0.26	0.338		3.73	0.56	175.0	0.2	10	1630	0.85	0.19	0.72	3.46	9.76	8.0

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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ59332		23	1.61	35.6	2.91	3.03	<0.05	0.03	0.10	0.030	0.08	3.5	4.0	0.04	70	8.52
ZZ59333		26	1.94	49.2	3.36	3.18	0.06	0.02	0.17	0.041	0.11	6.8	7.3	0.08	162	8.59
ZZ59334		22	2.04	30.7	2.46	3.76	<0.05	<0.02	0.09	0.028	0.09	6.1	2.2	0.04	68	9.13
ZZ59335		26	0.79	43.2	3.34	3.16	0.06	0.10	0.25	0.036	0.13	7.5	8.4	0.16	319	7.37
ZZ59336		28	0.66	41.0	2.58	2.01	0.07	0.08	0.29	0.035	0.09	5.7	4.1	0.07	103	8.10
ZZ59337		23	0.79	31.8	2.63	2.63	0.06	0.09	0.15	0.036	0.09	7.9	5.7	0.12	194	5.56
ZZ59338		19	1.60	33.8	4.04	1.44	0.05	0.02	0.06	0.032	0.16	3.0	1.8	0.04	455	7.69
ZZ59339		25	1.36	25.4	2.72	3.24	<0.05	<0.02	0.07	0.028	0.08	6.1	5.3	0.12	271	4.73
ZZ59340		25	2.32	60.2	2.97	1.92	0.08	0.05	0.21	0.041	0.09	6.5	4.8	0.13	194	5.16
ZZ59341		22	1.43	28.0	2.50	2.20	<0.05	0.04	0.04	0.029	0.07	3.2	2.1	0.04	125	7.48
ZZ59342		16	1.76	24.9	2.19	1.97	<0.05	<0.02	0.03	0.027	0.05	2.6	1.2	0.02	51	7.20
ZZ59343		32	3.13	39.5	3.25	3.23	0.05	0.02	0.11	0.040	0.10	6.5	6.2	0.12	212	7.71
ZZ59344		27	2.44	32.0	2.84	2.61	<0.05	0.02	3.09	0.035	0.11	4.8	3.2	0.07	252	7.40
ZZ59345		24	1.53	35.3	3.68	4.30	0.05	0.02	0.20	0.034	0.13	6.8	6.2	0.11	251	6.62
ZZ59346		20	7.04	45.5	4.16	2.39	<0.05	<0.02	0.14	0.051	0.14	3.3	1.1	0.02	59	8.00
ZZ59347		29	7.01	61.0	3.83	2.05	0.08	0.03	0.76	0.041	0.11	3.8	3.2	0.07	328	7.75
ZZ59348		36	3.08	59.8	3.16	1.92	0.07	0.04	0.31	0.036	0.07	3.6	2.4	0.06	105	9.08
ZZ59349		33	2.64	51.5	3.24	2.91	0.06	0.03	0.26	0.040	0.11	6.3	6.3	0.12	440	10.05
ZZ59350		33	3.74	60.4	3.84	2.98	0.07	0.07	6.21	0.046	0.12	8.0	7.2	0.17	451	9.85
ZZ59351		22	6.02	77.8	2.63	1.21	0.14	0.03	0.43	0.040	0.13	3.3	1.7	0.04	69	9.62
ZZ59352		31	6.82	103.0	4.19	1.73	0.10	0.05	2.18	0.053	0.12	4.9	3.1	0.08	197	13.25
ZZ59353		24	5.11	70.1	2.45	1.45	0.05	0.02	0.62	0.032	0.09	3.4	1.6	0.03	66	11.65
ZZ59354		34	5.88	109.0	3.57	1.89	0.08	0.02	2.93	0.055	0.13	5.2	2.6	0.06	147	13.60
ZZ59355		37	5.91	75.7	3.21	1.75	0.09	0.05	37.0	0.045	0.12	5.8	3.2	0.07	192	14.05



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**CERTIFICATE OF ANALYSIS WH12182364**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
ZZ59332		<0.01	0.20	71.9	720	15.8	10.1	0.001	0.12	1.76	3.1	6.8	0.6	74.8	<0.01	0.09
ZZ59333		<0.01	0.28	66.4	900	22.8	10.7	0.002	0.16	1.95	4.7	6.8	0.7	87.6	<0.01	0.11
ZZ59334		0.01	0.28	47.1	960	22.6	12.9	0.001	0.14	2.04	1.2	5.4	0.7	90.9	<0.01	0.09
ZZ59335		0.01	0.23	64.1	1160	22.8	8.0	0.001	0.15	2.00	4.4	4.9	0.6	121.0	<0.01	0.07
ZZ59336		0.01	0.14	69.5	1490	12.5	5.7	0.002	0.15	1.90	4.3	5.9	0.6	172.5	<0.01	0.09
ZZ59337		0.01	0.22	47.9	1950	15.0	8.7	0.001	0.18	1.30	3.2	4.5	0.5	137.5	<0.01	0.08
ZZ59338		0.01	0.08	67.0	2800	14.3	9.3	0.002	0.31	1.81	1.7	5.9	0.5	187.5	<0.01	0.16
ZZ59339		0.01	0.13	41.0	1810	13.7	9.3	0.001	0.11	1.06	0.5	3.1	0.5	56.6	<0.01	0.08
ZZ59340		0.01	0.19	103.5	2000	17.2	9.9	0.003	0.16	1.70	5.6	8.6	0.5	115.5	<0.01	0.09
ZZ59341		<0.01	0.19	54.7	1590	15.0	9.3	0.001	0.12	1.37	1.9	3.6	0.5	70.1	<0.01	0.08
ZZ59342		0.01	0.12	50.8	1630	9.5	8.7	<0.001	0.09	1.74	0.5	3.5	0.6	32.1	<0.01	0.09
ZZ59343		0.01	0.25	69.1	1950	15.7	11.1	0.003	0.22	1.74	1.7	5.5	0.6	152.0	<0.01	0.08
ZZ59344		0.01	0.25	46.3	2210	14.4	9.8	0.003	0.31	1.42	1.4	4.6	0.6	176.0	<0.01	0.17
ZZ59345		0.01	0.37	52.5	1060	37.8	10.4	0.003	0.14	1.84	3.6	4.3	0.7	72.1	<0.01	0.08
ZZ59346		0.01	0.21	92.9	960	33.8	14.0	0.001	0.30	2.44	3.9	6.5	0.6	104.0	<0.01	0.16
ZZ59347		0.01	0.15	141.5	2080	17.7	10.3	0.001	0.27	2.78	5.0	11.8	0.6	240	<0.01	0.24
ZZ59348		0.01	0.14	100.5	1900	14.1	10.0	0.005	0.20	1.88	2.4	11.4	0.5	121.5	<0.01	0.08
ZZ59349		0.01	0.21	80.0	1950	29.1	13.0	0.003	0.22	2.75	2.8	10.0	0.6	99.5	<0.01	0.09
ZZ59350		0.01	0.21	88.4	1780	23.5	10.4	0.003	0.19	2.45	6.4	7.1	0.7	154.5	<0.01	0.09
ZZ59351		0.01	<0.05	100.5	1500	16.6	10.8	0.008	0.25	2.72	5.0	38.5	0.5	186.0	<0.01	0.25
ZZ59352		0.01	0.09	162.5	2100	22.6	11.4	0.007	0.23	3.93	8.3	17.1	0.6	188.5	<0.01	0.17
ZZ59353		<0.01	<0.05	69.0	1090	26.7	7.4	0.002	0.10	2.73	4.6	5.9	0.5	130.5	<0.01	0.13
ZZ59354		0.01	0.08	143.5	1960	77.3	10.0	0.007	0.18	5.57	6.9	11.6	0.7	201	<0.01	0.16
ZZ59355		0.02	0.09	109.5	1760	26.7	10.1	0.006	0.19	3.70	6.3	12.0	0.6	161.0	<0.01	0.11

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59332		0.8	<0.005	0.34	1.31	76	0.12	8.30	260	0.9
ZZ59333		1.4	0.006	0.44	2.50	78	0.11	19.80	243	0.5
ZZ59334		0.2	0.008	0.69	1.43	87	0.13	8.22	226	<0.5
ZZ59335		1.5	<0.005	0.42	2.40	77	0.10	17.70	266	2.5
ZZ59336		0.8	<0.005	0.23	3.06	65	0.09	30.2	260	3.4
ZZ59337		0.8	<0.005	0.27	2.78	55	0.08	20.8	230	3.2
ZZ59338		0.2	<0.005	0.42	2.43	79	0.13	16.25	273	1.0
ZZ59339		<0.2	0.006	0.21	2.32	59	0.12	9.07	195	<0.5
ZZ59340		1.1	0.007	0.30	4.11	54	0.07	35.9	331	1.6
ZZ59341		0.4	<0.005	0.18	2.04	62	0.09	9.86	209	1.1
ZZ59342		<0.2	<0.005	0.26	1.57	62	0.09	5.61	199	<0.5
ZZ59343		0.3	0.007	0.40	3.40	71	0.17	17.15	263	0.8
ZZ59344		0.2	0.006	2.76	2.88	62	0.26	13.65	216	0.7
ZZ59345		1.2	0.005	0.70	1.27	84	0.12	9.17	264	0.5
ZZ59346		0.4	0.005	0.68	1.71	74	0.12	8.54	361	<0.5
ZZ59347		0.5	0.006	1.44	3.26	94	0.28	35.2	513	0.8
ZZ59348		0.2	<0.005	0.64	2.98	87	0.08	30.7	429	0.8
ZZ59349		0.5	0.005	0.71	2.84	91	0.13	20.3	406	1.0
ZZ59350		1.2	0.005	11.95	3.82	79	0.26	28.6	327	2.0
ZZ59351		1.6	<0.005	0.79	4.40	63	0.11	24.4	393	0.7
ZZ59352		1.5	<0.005	3.48	5.56	106	0.24	40.0	563	1.2
ZZ59353		0.7	<0.005	0.51	3.91	50	0.12	19.00	270	0.5
ZZ59354		1.3	<0.005	3.17	5.59	115	0.32	35.6	541	0.9
ZZ59355		1.1	<0.005	3.65	6.09	85	0.29	40.5	430	2.1





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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 14- AUG- 2012  
Account: RCM

Project: ATAC- Regional AreaB DaleInfill

**CERTIFICATE OF ANALYSIS WH12182364**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1  
 Finalized Date: 15- AUG- 2012  
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**CERTIFICATE WH12182365**

Project: ATAC- Regional Area A,B  
 P.O. No.: R18  
 This report is for 58 Rock samples submitted to our lab in Whitehorse, YT, Canada on 4- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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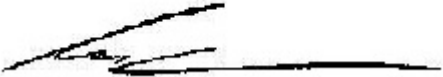
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Sb- XRF10	Fusion XRF - Sb Ore Grade	XRF
ME- XRF10	Fusion XRF - Ore Grade	XRF
OA- GRA06	LOI for ME- XRF06	WST- SIM
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 15- AUG- 2012  
 Account: RCM

Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12182365**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842935		0.31	<0.01	0.01	0.31	2.7	20	0.23	0.01	3.55	0.02	4.21	3.8	8	0.27	4.0
L842936		0.47	<0.01	<0.01	4.51	23	250	1.14	0.18	14.00	0.05	50.1	8.3	31	3.66	21.8
L842937		0.16	<0.01	<0.01	2.78	15.2	120	0.86	0.09	0.28	0.21	23.4	12.9	37	1.27	35.2
L842938		0.13	0.01	0.03	0.68	8.0	40	0.18	0.04	0.08	0.10	5.25	1.5	14	0.79	29.0
L842939		0.13	0.01	0.70	0.91	>10000	240	1.23	0.02	0.50	111.0	7.64	146.5	16	1.33	26.6
L842940		0.19	<0.01	0.08	0.13	158	1920	0.22	0.01	36.9	15.05	2.38	2.3	5	0.69	6.8
L842941		0.51	<0.01	0.01	0.08	66	130	0.22	<0.01	37.6	0.84	0.86	0.9	3	0.17	2.9
L842942		0.65	<0.01	0.02	0.12	54	150	0.16	0.01	36.3	0.53	1.30	0.9	5	0.22	3.0
L842943		0.58	0.08	5.17	0.48	325	4980	0.52	0.02	32.4	52.9	12.80	2.4	17	0.58	8.1
L842944		0.71	0.09	2.87	0.26	262	3850	0.37	0.01	33.0	13.05	5.36	1.0	9	0.72	3.6
L842945		0.37	<0.01	4.78	1.18	1620	1900	0.77	0.05	0.49	13.05	15.50	6.4	94	2.22	59.2
L842946		0.18	0.01	0.54	4.82	3890	1450	1.52	0.20	0.31	4.13	58.9	1.7	152	9.32	119.5
L842947		0.33	<0.01	1.14	0.18	284	160	0.18	0.01	29.9	22.5	3.90	4.3	8	0.40	5.9
L842948		0.17	<0.01	5.55	3.37	272	640	1.73	0.16	0.87	35.6	32.6	11.8	475	5.70	326
L842949		0.39	0.01	1.58	1.63	10.9	1670	0.74	0.08	0.09	0.28	19.90	0.8	45	5.15	29.3
L842950		0.59	<0.01	1.43	2.57	91.9	2380	1.28	0.08	0.08	0.39	30.5	0.7	84	5.30	26.3
L842951		0.88	0.07	1.03	3.44	160.5	2600	1.16	0.15	0.41	1.29	36.6	6.5	105	7.72	32.2
L842952		0.16	<0.01	1.30	2.22	108.0	2810	1.29	0.07	0.93	4.16	23.6	11.3	56	3.76	20.2
L842953		0.17	0.01	0.90	3.12	85.9	1180	1.33	0.15	0.11	0.77	27.6	3.7	113	5.48	27.9
L842954		0.31	<0.01	0.04	2.33	31.3	160	0.33	0.05	0.05	0.72	25.7	5.1	35	0.69	17.6
L842955		0.13	<0.01	0.20	0.49	13	1870	0.23	0.02	24.9	0.48	6.80	1.7	22	0.82	5.5
L842956		0.45	0.01	1.86	3.21	374	310	2.30	0.20	0.22	1.46	33.3	8.1	257	5.59	99.8
L842957		1.08	<0.01	1.35	0.53	12	5070	0.31	0.02	23.1	7.73	5.38	2.5	60	0.33	18.0
L842958		0.24	0.01	5.21	3.37	262	460	1.79	0.16	0.57	31.4	26.9	16.2	438	5.23	371
L842959		1.15	<0.01	1.02	3.13	274	2760	1.52	0.18	0.11	5.36	34.8	2.0	171	5.03	76.6
L842960		0.23	<0.01	>100	0.12	302	200	0.09	0.06	20.8	67.6	2.24	0.8	4	0.20	23.0
L842961		1.06	0.04	0.13	0.07	100	40	0.12	<0.01	26.1	0.18	1.65	1.2	1	0.09	1.1
L842962		0.84	0.11	3.79	0.15	24	30	0.14	0.01	28.5	4.67	3.05	1.3	1	0.41	2.7
L842963		0.26	0.38	0.79	0.86	79	1030	0.44	0.03	29.4	7.29	9.43	1.5	5	1.73	3.2
L842964		0.31	0.14	1.07	0.38	149	190	0.33	0.02	26.5	3.25	4.17	1.3	4	0.48	3.2
L842965		0.91	<0.01	0.24	0.62	32.5	220	0.13	0.11	0.38	0.07	5.98	0.3	18	1.56	2.2
L842966		0.32	<0.01	0.11	0.07	55	110	0.40	<0.01	37.5	4.79	1.16	1.1	1	0.29	4.8
L842967		0.04	0.04	0.24	0.48	4860	3590	0.83	0.02	27.1	32.4	6.32	26.9	8	1.42	25.6
L842968		0.35	<0.01	0.05	0.04	51	80	0.06	<0.01	24.4	1.12	2.13	1.2	1	<0.05	1.4
L842969		0.48	0.17	1.85	2.85	4430	2400	6.17	0.16	0.31	2.39	33.2	4.1	157	4.11	368
L842970		0.93	<0.01	0.18	0.20	836	80	0.61	0.01	37.4	0.82	2.80	2.3	3	1.49	2.3
L842971		0.30	<0.01	0.14	0.15	19	5210	0.20	0.01	12.75	0.73	2.14	1.1	10	0.37	2.6
L843539		0.68	<0.01	0.14	4.04	1245	240	1.23	0.21	0.29	0.03	45.2	31.7	41	5.15	88.6
L843540		0.39	0.02	0.11	4.99	4410	200	1.06	0.21	0.27	0.06	48.6	13.3	39	4.83	23.0
L843541		1.24	0.02	0.03	1.53	218	70	0.73	0.03	31.3	0.26	22.6	3.7	9	1.68	3.2



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Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12182365**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842935		1.71	1.05	<0.05	0.1	0.13	0.014	0.05	1.4	23.0	0.23	2570	0.28	0.01	0.2	8.5
L842936		4.86	10.60	0.11	1.6	0.16	0.038	1.35	25.0	94.7	4.97	760	0.28	0.05	5.7	22.0
L842937		4.41	7.23	0.10	1.3	0.16	0.029	0.33	10.7	130.0	0.69	1300	0.56	0.25	4.0	33.8
L842938		1.03	1.81	<0.05	0.2	0.17	0.011	0.23	2.4	8.3	0.07	113	0.36	0.09	0.7	5.2
L842939		>50	1.68	1.48	0.3	7.5	0.013	0.13	5.4	4.0	0.07	225	41.9	0.01	1.5	2850
L842940		0.50	0.35	<0.05	0.1	0.19	<0.005	0.04	1.7	0.7	0.18	320	0.73	0.01	0.4	54.0
L842941		0.21	0.22	0.06	<0.1	0.38	<0.005	0.03	0.5	0.7	0.25	41	0.37	<0.01	0.4	12.4
L842942		0.17	0.34	<0.05	0.1	0.30	<0.005	0.05	0.8	0.8	0.34	49	0.80	0.01	0.5	11.5
L842943		0.64	3.36	0.05	0.2	4.44	0.012	0.09	12.0	2.7	0.11	418	12.85	0.02	1.1	28.0
L842944		0.59	0.93	0.06	0.1	11.5	0.005	0.06	5.9	1.1	0.09	425	4.72	0.01	0.7	30.1
L842945		19.90	3.48	0.31	0.7	1.23	0.018	0.35	12.5	2.8	0.07	165	50.3	0.01	1.8	161.0
L842946		8.54	15.00	0.20	2.2	1.2	0.143	2.00	33.6	19.1	0.30	34	24.7	0.03	15.2	33.3
L842947		1.18	0.65	0.06	0.1	2.84	0.008	0.05	6.1	0.8	3.59	330	16.25	0.01	0.5	78.8
L842948		11.85	12.60	0.39	1.6	0.03	0.163	0.77	30.5	40.3	0.18	161	58.0	0.03	4.1	439
L842949		1.72	5.88	0.09	1.2	0.37	0.012	0.83	11.3	22.0	0.15	28	3.18	0.05	5.5	10.3
L842950		2.07	8.58	0.11	1.5	0.24	0.051	0.78	16.7	18.7	0.14	28	5.53	0.03	9.3	24.3
L842951		2.51	9.84	0.13	1.9	1.33	0.033	1.07	24.7	24.5	0.25	271	4.55	0.11	8.3	53.7
L842952		2.92	7.35	0.12	1.2	0.20	0.028	0.70	13.7	20.0	0.47	251	4.36	0.03	7.1	110.0
L842953		1.90	9.18	0.13	1.6	1.09	0.035	1.06	20.3	22.0	0.15	35	2.07	0.03	6.7	50.5
L842954		2.68	6.44	0.08	1.5	0.15	0.015	0.53	12.1	15.4	0.11	437	0.30	0.01	2.6	13.4
L842955		0.69	1.28	<0.05	0.5	0.07	0.005	0.15	5.2	13.6	0.41	103	1.49	0.02	1.4	13.7
L842956		13.25	12.40	0.57	1.7	0.11	0.138	1.70	21.6	16.8	0.13	21	81.9	0.03	3.8	158.5
L842957		0.64	0.95	0.09	0.3	0.06	<0.005	0.08	8.4	11.2	0.44	58	6.78	0.07	1.1	72.4
L842958		12.55	13.50	0.49	1.7	0.2	0.122	0.77	25.4	39.7	0.17	169	70.5	0.03	4.3	515
L842959		3.68	11.25	0.25	1.8	0.44	0.133	1.03	24.7	44.8	0.11	27	20.9	0.03	6.4	41.3
L842960		0.23	0.48	<0.05	<0.1	14.4	<0.005	0.05	2.0	9.3	0.82	135	20.5	<0.01	0.2	17.2
L842961		0.22	0.41	0.31	<0.1	0.24	<0.005	0.02	0.9	0.7	8.50	754	0.31	0.01	0.3	3.2
L842962		0.11	0.61	0.37	0.1	2.96	<0.005	0.05	2.6	1.1	6.72	269	0.15	0.01	0.5	4.0
L842963		0.18	2.41	0.15	0.4	0.44	0.008	0.36	5.7	3.8	4.16	400	0.20	0.02	1.6	5.9
L842964		0.27	1.09	0.22	0.2	0.56	0.006	0.13	3.0	1.6	8.08	237	0.41	0.01	0.8	5.7
L842965		0.48	1.81	0.07	0.4	0.07	<0.005	0.26	7.9	9.7	0.06	29	0.86	0.01	1.5	1.7
L842966		0.22	0.29	0.11	<0.1	0.13	<0.005	0.02	0.9	0.5	0.18	202	0.60	<0.01	0.4	16.9
L842967		12.15	1.44	0.28	0.2	2.1	0.010	0.12	5.6	2.3	0.11	515	18.35	0.03	0.9	699
L842968		0.12	0.29	0.38	<0.1	0.04	<0.005	0.01	5.1	0.4	12.15	46	0.30	0.01	0.3	6.1
L842969		17.45	10.50	0.35	2.0	0.7	0.042	0.96	24.9	7.6	0.12	96	13.50	0.02	5.7	87.4
L842970		0.77	0.64	<0.05	0.1	0.71	<0.005	0.07	1.8	0.9	0.19	388	1.33	<0.01	0.7	13.2
L842971		0.98	0.35	<0.05	0.4	0.04	<0.005	0.04	3.2	6.8	4.93	254	0.87	0.04	0.4	9.0
L843539		12.10	15.25	0.23	2.2	0.08	0.041	1.92	25.6	36.5	0.37	560	0.35	0.02	4.3	40.0
L843540		17.65	13.30	0.34	2.1	0.41	0.045	1.77	25.9	33.2	0.48	607	1.22	0.02	3.6	48.2
L843541		1.36	4.55	0.08	0.7	0.08	0.012	0.84	18.1	19.2	0.60	393	0.09	0.01	3.6	5.5

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Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12182365**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842935		10	10.6	2.5	<0.002	<0.01	1.11	1.5	<1	0.2	45.3	<0.05	<0.05	0.6	0.007	0.04
L842936		180	21.2	68.0	<0.002	0.46	0.44	8.3	1	1.2	835	0.50	<0.05	8.0	0.208	0.37
L842937		250	13.0	17.0	<0.002	<0.01	1.98	6.8	1	0.8	49.8	0.34	<0.05	3.8	0.284	0.11
L842938		70	9.7	11.0	<0.002	0.05	1.73	1.3	1	0.4	9.2	0.06	<0.05	0.7	0.038	0.09
L842939		430	33.5	6.0	0.003	0.04	5.21	2.5	20	0.2	39.7	0.06	<0.05	0.7	0.021	0.80
L842940		40	18.3	1.8	0.003	0.04	0.38	1.7	1	<0.2	207	<0.05	<0.05	0.2	<0.005	0.31
L842941		10	8.5	1.2	0.002	<0.01	0.25	0.3	1	<0.2	303	<0.05	<0.05	<0.2	<0.005	0.03
L842942		20	7.5	2.0	0.003	0.02	0.88	0.5	1	<0.2	317	<0.05	<0.05	<0.2	0.005	0.05
L842943		700	602	3.8	<0.002	0.14	37.8	4.7	1	0.6	431	0.07	<0.05	0.8	0.021	0.50
L842944		280	394	2.9	0.002	0.12	23.8	4.3	3	0.3	171.0	<0.05	<0.05	0.4	0.011	0.77
L842945		1250	338	17.1	<0.002	0.06	149.5	3.8	2	0.4	60.7	0.13	<0.05	2.0	0.047	0.40
L842946		1430	22.0	79.6	0.003	0.63	19.30	11.3	3	1.7	439	1.07	0.11	9.3	0.310	20.8
L842947		270	1065	2.4	0.002	0.05	72.5	2.0	1	0.7	151.0	<0.05	<0.05	0.2	0.007	0.44
L842948		>10000	16.3	48.4	0.088	0.38	12.70	13.8	35	1.5	1100	0.35	0.13	6.1	0.138	2.52
L842949		410	16.7	37.8	0.002	0.50	3.11	4.3	12	0.7	101.0	0.35	0.05	2.7	0.108	0.85
L842950		1520	10.5	37.5	0.006	0.38	3.85	8.9	5	1.0	160.5	0.64	0.05	5.1	0.130	1.35
L842951		1180	46.1	55.8	0.004	0.14	2.32	8.1	7	1.2	108.5	0.56	0.10	5.9	0.216	2.65
L842952		700	11.6	31.0	0.003	0.21	1.79	4.3	3	0.8	159.0	0.47	<0.05	3.5	0.103	0.64
L842953		1110	12.1	56.2	0.010	0.10	1.45	7.2	19	1.1	82.4	0.44	0.19	4.8	0.188	2.95
L842954		260	9.5	18.5	<0.002	0.01	0.58	4.9	1	0.5	14.0	0.20	<0.05	5.2	0.201	0.12
L842955		600	11.7	7.2	0.009	0.35	0.72	3.5	3	0.2	1940	0.08	<0.05	0.9	0.024	0.14
L842956		9250	11.0	53.7	0.048	1.95	25.8	21.5	55	1.1	2760	0.28	0.15	4.3	0.114	3.14
L842957		1750	7.8	4.7	0.088	0.17	1.84	3.7	15	<0.2	1555	0.07	<0.05	0.8	0.018	0.20
L842958		>10000	10.6	46.0	0.078	0.46	12.40	14.1	37	1.3	1220	0.30	0.14	5.8	0.123	2.60
L842959		5510	12.5	51.3	0.191	0.24	6.04	35.9	29	1.2	496	0.43	0.15	5.6	0.179	1.86
L842960		210	>10000	1.7	0.002	1.18	381	0.7	8	<0.2	167.0	<0.05	<0.05	0.2	<0.005	0.44
L842961		80	69.9	1.0	<0.002	<0.01	0.28	0.4	1	<0.2	177.5	<0.05	<0.05	<0.2	<0.005	0.08
L842962		110	127.5	2.3	<0.002	0.01	0.97	1.3	1	0.3	125.0	<0.05	<0.05	0.3	0.006	0.31
L842963		370	68.1	14.1	<0.002	0.03	0.39	8.4	1	0.3	168.5	0.09	<0.05	1.3	0.037	0.52
L842964		180	87.4	4.9	<0.002	<0.01	3.31	2.0	1	0.3	125.0	<0.05	<0.05	0.6	0.015	0.11
L842965		80	15.0	12.2	<0.002	0.07	0.80	0.8	1	0.3	38.7	0.10	<0.05	1.6	0.041	0.71
L842966		30	18.9	1.0	<0.002	0.01	0.24	1.4	1	<0.2	201	<0.05	<0.05	<0.2	<0.005	0.04
L842967		360	30.6	5.5	<0.002	0.12	32.3	3.5	2	0.2	96.8	<0.05	<0.05	0.6	0.014	1.13
L842968		100	20.3	0.4	<0.002	0.01	0.58	0.5	1	<0.2	95.6	<0.05	<0.05	<0.2	<0.005	0.08
L842969		830	386	35.7	<0.002	0.09	38.3	14.1	4	1.2	109.5	0.37	0.09	5.0	0.186	0.68
L842970		100	14.4	2.9	<0.002	0.02	2.04	1.4	2	<0.2	71.3	<0.05	<0.05	0.3	0.011	0.40
L842971		150	5.9	1.6	0.007	0.15	0.26	0.7	2	<0.2	344	<0.05	<0.05	0.3	0.007	0.03
L843539		2550	15.1	71.0	<0.002	0.16	10.95	5.9	1	1.5	83.3	0.34	<0.05	14.8	0.158	2.38
L843540		1130	13.3	68.6	<0.002	0.05	187.0	6.4	1	1.5	25.7	0.29	<0.05	9.8	0.142	6.41
L843541		410	14.3	28.5	<0.002	<0.01	24.5	3.3	1	0.5	92.3	0.26	<0.05	3.6	0.061	0.28



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1	0.01
L842935		0.1	5	0.1	6.9	10	3.4						
L842936		1.6	47	0.9	16.0	50	57.2						
L842937		0.8	65	1.8	14.1	74	45.9						
L842938		0.2	14	0.4	1.7	44	8.6						
L842939		8.1	146	0.7	51.1	5110	9.5				1.225		
L842940		4.5	14	0.2	15.8	508	2.3						
L842941		1.0	6	0.2	4.3	62	1.5						
L842942		1.3	11	0.2	4.5	80	2.6						
L842943		5.9	65	1.4	21.2	604	10.4						
L842944		5.2	40	0.7	14.0	553	6.2						
L842945		3.2	123	1.5	28.1	3680	30.5						
L842946		6.3	625	2.8	16.7	194	92.7						
L842947		4.1	36	0.8	20.8	716	5.3						
L842948		60.1	409	1.1	70.5	3940	67.6						
L842949		2.9	197	0.6	10.6	32	42.9						
L842950		4.9	229	0.8	17.8	30	55.9						
L842951		3.9	206	1.7	18.2	218	61.5						
L842952		2.9	162	0.7	36.1	699	43.3						
L842953		3.5	218	1.2	15.4	181	53.3						
L842954		0.8	68	0.6	5.4	78	45.9						
L842955		2.8	61	0.2	18.7	51	33.0						
L842956		33.2	412	2.0	82.8	1990	71.8						
L842957		6.3	119	0.2	50.3	385	18.3						
L842958		51.7	436	1.1	81.9	4020	66.5						
L842959		25.2	278	1.0	50.4	354	63.2						
L842960		3.5	24	0.2	3.9	8390	1.7	211	16.20				
L842961		0.4	5	0.1	3.1	40	1.1						
L842962		1.5	7	0.2	8.4	119	3.0						
L842963		2.0	28	1.5	23.6	107	14.4						
L842964		2.5	18	0.8	3.3	107	6.1						
L842965		1.0	17	0.4	2.9	3	17.1						
L842966		3.8	11	0.2	6.7	175	1.7						
L842967		10.2	168	0.8	48.5	2910	8.5						
L842968		1.6	9	0.1	6.4	56	1.1						
L842969		4.0	513	17.9	31.8	753	72.2						
L842970		3.3	18	0.6	4.4	59	4.5						
L842971		0.9	45	0.1	5.9	44	12.5						
L843539		3.6	50	2.4	8.3	79	68.2						
L843540		4.0	51	1.4	13.0	51	62.5						
L843541		0.7	10	2.7	10.0	317	21.7						



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
L843542		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843543		0.56	<0.01	0.07	4.55	25.7	110	2.87	0.09	0.18	0.07	45.5	58.2	15	1.37	57.1
L843544		0.64	<0.01	0.25	4.16	7800	430	1.27	0.23	0.29	0.11	48.9	26.1	34	4.42	41.1
L843545		0.71	0.18	0.48	0.18	74	30	0.16	0.01	18.25	29.0	7.02	1.3	3	0.17	6.5
L843546		1.32	0.17	0.41	0.61	90.9	250	0.17	0.04	0.17	12.35	6.65	7.4	1	0.32	25.0
L843547		0.21	<0.01	1.80	0.58	>10000	2260	6.13	0.04	9.07	21.1	7.12	3.6	41	1.40	206
L843573		0.76	<0.01	1.94	1.35	10000	930	4.64	0.04	0.37	3.64	5.63	15.3	77	1.20	723
L843574		0.91	2.64	2.59	0.13	551	50	0.05	7.68	1.51	0.11	1.62	0.4	10	0.06	4.3
L843575		1.12	<0.01	0.85	1.73	5250	2160	2.84	0.16	0.25	3.84	24.7	3.5	139	1.85	222
L843576		0.39	0.04	0.08	1.54	37.1	60	0.26	0.14	3.33	0.37	14.80	2.2	26	1.01	4.4
L843577		0.58	<0.01	0.05	1.53	47.8	50	0.38	0.06	1.86	0.10	21.6	6.6	28	1.65	23.8
L843578		0.82	0.01	0.03	1.30	23.3	80	0.35	0.03	3.35	0.09	14.75	2.9	26	1.39	10.1
L843579		0.64	<0.01	0.05	1.93	28.2	50	0.52	0.04	3.11	0.03	25.5	5.0	28	1.27	16.9
L843580		0.28	0.01	0.10	7.01	79.4	390	2.10	0.24	0.07	0.12	21.5	26.8	121	7.25	101.5
L843581		0.33	<0.01	0.15	7.68	87.3	310	1.88	0.22	0.10	0.08	43.7	24.5	116	5.78	102.0
L843582		0.71	0.01	0.04	1.17	188.5	30	0.34	0.02	1.01	0.08	10.60	2.4	17	1.54	7.8
L843583		1.23	0.08	0.08	2.23	162.0	80	0.51	0.03	1.22	0.09	17.80	3.7	27	3.67	15.4
L843584		1.20	0.01	0.05	0.82	186.5	20	0.22	0.01	0.56	0.07	6.51	3.2	9	1.03	6.7
L843584		0.52	<0.01	0.05	0.81	723	40	0.27	0.02	0.03	0.03	9.16	2.4	24	1.88	7.9

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**CERTIFICATE OF ANALYSIS WH12182365**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843542		7.81	3.83	0.17	0.9	0.03	0.024	0.50	17.6	35.9	0.09	279	0.35	0.01	1.5	148.0
L843543		17.50	11.55	0.35	2.0	1.27	0.037	1.87	24.8	34.9	0.39	1360	1.14	0.03	2.7	33.3
L843544		11.50	0.66	0.19	0.1	7.6	<0.005	0.06	3.0	3.2	8.52	1020	0.16	0.01	0.5	2.8
L843545		>50	0.95	0.89	0.2	2	0.006	0.09	4.7	2.4	0.23	357	0.48	0.01	0.9	32.6
L843546		40.7	2.04	0.96	0.7	2	0.026	0.15	5.1	2.3	0.09	316	24.3	0.03	1.4	134.5
L843547		44.4	2.73	0.94	0.6	1	0.030	0.19	5.2	2.1	0.06	188	14.20	0.01	1.9	476
L843573		11.30	0.70	0.40	0.1	0.06	0.006	0.01	1.1	0.6	0.04	36	10.50	0.01	1.0	18.2
L843574		20.9	8.03	0.39	1.6	0.5	0.021	0.59	19.7	5.0	0.08	320	28.5	0.02	5.0	116.0
L843575		2.71	3.03	0.05	1.3	2.67	0.012	0.34	6.9	17.5	0.63	1130	0.48	0.01	2.0	6.2
L843576		2.46	4.41	0.06	1.4	5.0	0.013	0.41	10.2	17.1	0.09	282	0.27	0.01	2.3	15.8
L843577		1.92	2.68	<0.05	1.1	4.04	0.008	0.28	6.8	25.0	0.15	586	0.23	0.01	2.1	6.4
L843578		2.85	4.59	0.06	2.1	1.58	0.014	0.30	12.3	25.4	0.16	495	0.17	0.01	3.7	9.8
L843579		5.44	27.9	0.16	3.1	0.34	0.081	2.94	8.2	57.8	0.81	130	0.44	0.40	11.9	55.4
L843580		9.13	25.9	0.23	3.4	1.82	0.075	2.03	17.8	31.5	0.31	975	0.31	0.02	10.0	48.7
L843581		1.22	3.07	0.73	0.7	>100	0.010	0.38	6.4	12.0	0.06	151	0.08	0.01	0.2	5.3
L843582		0.51	6.64	1.14	1.1	>100	0.015	0.92	10.1	7.6	0.13	52	0.06	0.01	0.9	9.7
L843583		1.07	1.90	0.90	0.4	>100	0.005	0.19	3.7	23.9	0.03	159	0.08	0.01	0.1	8.0
L843584		1.46	1.96	0.10	0.7	30.2	0.006	0.20	4.5	65.5	0.04	464	0.20	<0.01	1.2	5.9

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**CERTIFICATE OF ANALYSIS WH12182365**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843542		1410	9.4	19.7	<0.002	0.05	1.44	6.9	1	0.4	65.7	0.12	<0.05	5.1	0.058	0.21
L843543		1780	26.0	69.9	<0.002	0.35	146.5	5.1	1	1.2	400	0.22	<0.05	7.5	0.113	34.0
L843544		1310	753	2.1	<0.002	0.03	5.95	0.5	2	<0.2	72.5	<0.05	<0.05	0.5	<0.005	0.39
L843545		90	261	2.9	<0.002	0.04	12.70	1.1	3	0.2	23.7	<0.05	<0.05	0.7	0.005	0.49
L843546		650	167.5	6.5	0.002	0.16	66.1	5.8	11	0.2	73.8	0.06	<0.05	0.8	0.019	0.51
L843547		1440	181.0	7.8	0.002	0.13	22.3	9.2	9	0.3	31.4	0.10	<0.05	1.1	0.036	0.86
L843573		50	11.8	0.5	0.064	>10.0	2.14	0.4	66	3.0	5.3	0.05	<0.05	<0.2	0.014	0.04
L843574		810	90.2	22.8	<0.002	0.14	28.2	8.9	4	1.2	87.3	0.32	0.08	4.2	0.153	1.41
L843575		120	4.5	14.6	0.002	0.45	3.64	4.0	2	0.6	250	0.13	<0.05	3.2	0.151	0.10
L843576		120	5.4	17.1	<0.002	0.01	3.94	4.3	1	0.4	17.1	0.17	<0.05	3.9	0.175	0.13
L843577		90	3.6	13.7	<0.002	0.02	10.85	3.5	1	0.3	45.3	0.14	<0.05	3.0	0.155	0.08
L843578		80	11.6	13.5	<0.002	<0.01	4.19	4.2	1	0.5	27.1	0.25	<0.05	6.9	0.269	0.09
L843579		300	18.7	74.8	<0.002	0.01	4.37	25.6	1	2.4	32.8	0.84	<0.05	5.3	0.587	0.72
L843580		520	94.4	95.1	<0.002	0.01	36.6	21.0	2	2.2	26.4	0.74	<0.05	11.2	0.603	0.58
L843581		50	2.4	15.3	<0.002	0.01	>10000	2.7	1	<0.2	159.0	<0.05	<0.05	1.9	0.040	8.17
L843582		60	5.2	37.8	<0.002	0.01	>10000	6.1	1	0.2	197.5	<0.05	<0.05	3.2	0.074	7.50
L843583		30	2.1	8.6	<0.002	0.01	>10000	1.9	1	<0.2	88.0	<0.05	<0.05	1.2	0.025	3.45
L843584		90	2.7	9.4	<0.002	<0.01	843	2.1	1	0.2	94.0	0.07	<0.05	2.4	0.110	1.01

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Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12182365**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	As	Hg	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.001	0.1	0.01
L843542		6.7	16	0.5	15.9	253	27.5						
L843543		5.2	49	1.3	12.8	43	61.4						
L843544		2.1	3	0.3	6.1	5880	4.0						
L843545		6.5	5	0.3	6.4	>10000	6.4			1.175			
L843546		3.5	660	17.4	32.2	1980	25.2				2.28		
L843547		3.9	489	8.3	54.5	4470	22.3				1.550		
L843573		0.8	78	3.0	10.8	27	7.4						
L843574		3.7	413	6.2	26.1	646	60.7						
L843575		0.5	34	1.6	6.7	42	40.8						
L843576		0.6	44	1.3	6.1	40	44.1						
L843577		0.5	38	1.3	7.2	15	35.8						
L843578		1.0	60	1.2	9.9	27	67.4						
L843579		2.3	195	1.3	7.6	123	100.5						
L843580		2.5	218	1.5	21.0	113	148.0						
L843581		0.6	12	<0.1	4.0	527	23.0					369	7.61
L843582		1.2	22	<0.1	4.2	140	35.7					357	8.30
L843583		0.4	9	<0.1	3.2	398	13.5					306	4.46
L843584		0.4	23	0.8	4.4	46	22.9						

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Account: RCM

Project: ATAC- Regional Area A,B

**CERTIFICATE OF ANALYSIS WH12182365**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12184200**

Project: ATAC- Regional- Area B  
 P.O. No.: R19  
 This report is for 98 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843603		0.31	<0.01	0.18	0.41	32	120	0.13	0.03	25.5	0.13	7.07	1.5	19	0.50	6.3
L843604		0.30	<0.01	0.71	1.84	379	740	0.98	0.08	0.14	0.84	19.75	26.5	47	2.63	71.1
L843605		0.31	<0.01	0.99	1.37	59.6	940	0.40	0.07	0.09	0.16	10.65	0.9	42	2.23	8.0
L843606		0.28	<0.01	0.57	0.91	413	370	0.51	0.06	0.61	1.23	22.0	5.5	33	1.47	29.6
L843607		0.35	<0.01	0.13	0.32	8	5690	0.29	0.01	16.80	1.20	3.30	1.6	17	0.51	5.3
L843608		0.38	<0.01	0.25	0.31	42.6	6320	0.38	0.01	0.36	0.96	2.03	4.4	16	0.62	34.1
L843609		0.45	0.05	0.70	2.94	240	780	1.02	0.11	15.25	3.99	28.2	7.3	36	3.79	18.7
L843610		0.47	0.02	0.31	1.17	138	240	0.53	0.05	22.7	1.42	11.30	3.0	14	1.93	7.1
L843611		0.52	0.14	1.29	1.48	1680	3430	0.90	0.05	27.7	1.89	14.20	4.7	20	3.77	17.7
L843612		0.36	1.01	5.99	6.12	3620	1050	3.93	0.20	2.96	5.94	70.6	10.1	93	17.45	82.8
L843613		0.51	0.01	11.55	6.66	392	880	1.86	0.26	0.26	1.19	70.1	2.4	92	16.25	50.6
L843614		0.85	0.02	12.90	6.33	878	930	1.98	0.33	0.31	2.25	72.8	14.1	99	19.40	89.7
L843615		0.31	0.04	6.40	3.40	>10000	4980	1.89	0.16	0.93	12.45	34.3	10.0	56	7.70	60.6
L843616		0.57	0.07	0.15	0.20	95	120	0.20	0.01	32.4	0.50	2.45	0.9	<1	0.32	1.4
L843617		0.55	<0.01	0.06	0.11	17	40	0.14	<0.01	26.0	0.46	1.18	1.2	<1	0.12	0.8
L843618		0.64	0.37	1.07	0.54	128	210	0.54	0.01	32.5	6.76	3.78	3.2	4	1.35	2.3
L843619		0.36	0.13	0.54	0.13	49	140	0.25	<0.01	29.5	1.80	1.37	1.3	<1	0.17	1.1
L843620		0.53	0.15	0.85	0.34	24	290	0.34	0.01	30.6	7.24	3.09	1.2	1	0.64	1.8
L843621		0.31	0.91	10.05	2.17	28.4	340	0.49	0.05	0.75	0.09	13.55	0.3	23	1.84	9.4
L843622		0.33	0.08	2.23	0.08	80	50	0.43	<0.01	35.3	2.50	1.55	0.9	<1	0.15	2.5
L843623		0.65	3.54	8.78	5.78	142.0	860	1.93	0.24	0.46	0.05	63.5	1.3	85	14.50	30.8
L843624		0.21	0.02	0.30	0.21	38	80	0.20	0.01	36.7	0.25	2.79	0.8	1	0.41	0.9
L843625		1.32	0.35	0.62	0.91	91	170	0.50	0.03	25.9	2.32	12.45	3.0	10	1.44	6.5
L843626		1.45	0.30	0.64	1.30	107	210	0.65	0.05	23.0	3.12	17.70	3.9	14	2.04	8.4
L843627		1.25	0.31	0.61	1.68	145	300	0.76	0.06	21.6	3.24	22.1	4.9	19	2.73	10.8
L843628		1.25	0.27	0.53	1.04	107	250	0.51	0.04	23.7	2.74	14.25	3.3	10	1.66	6.6
L843629		1.46	0.29	0.44	1.32	102	220	0.58	0.05	22.7	2.55	17.00	3.8	14	1.87	7.7
L843630		0.95	0.18	0.42	1.28	129	270	0.60	0.05	24.9	2.48	16.70	3.7	14	2.27	7.8
L843631		0.88	0.02	0.44	0.84	305	270	0.54	0.02	33.1	4.10	8.86	2.3	6	1.88	2.6
L843632		1.18	0.12	1.32	0.52	115	180	0.51	0.03	30.9	7.95	5.75	1.9	5	0.93	3.5
L843633		0.86	0.10	1.24	1.90	308	1180	1.01	0.06	24.1	6.18	19.90	4.2	19	3.37	10.6
L843634		1.07	0.08	0.88	1.85	273	1840	0.89	0.05	25.1	4.30	19.00	3.4	19	3.65	9.2
L843635		0.42	0.09	1.25	2.51	413	450	1.11	0.07	21.1	2.20	23.4	3.8	20	6.90	11.6
L843636		0.29	1.53	13.65	5.96	328	890	2.23	0.24	0.59	0.33	74.9	2.1	85	17.20	40.5
L843637		0.31	2.45	8.52	5.00	2390	750	6.34	0.26	0.68	1.98	72.9	6.6	84	15.50	127.0
L843638		0.46	5.59	11.60	6.10	300	1290	3.12	0.27	0.67	0.10	104.0	1.2	91	27.0	42.7
L843639		0.51	1.70	16.70	3.37	428	550	1.53	0.12	18.95	1.34	31.2	3.6	45	12.15	25.3
L843640		0.87	0.04	0.10	5.82	14.8	700	1.45	0.14	1.55	1.30	51.2	12.9	55	2.49	22.4
L843641		0.80	<0.01	0.26	0.40	15	5760	0.52	0.02	10.95	3.90	4.51	3.1	21	0.80	12.8
L843642		1.63	<0.01	0.09	0.19	25	6330	0.19	0.01	30.5	0.33	3.18	1.1	10	0.19	1.9

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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843603		0.43	1.42	0.06	0.3	0.09	0.014	0.16	10.4	2.6	0.06	214	0.72	0.01	1.2	3.4
L843604		7.01	4.54	0.16	0.9	0.21	0.026	0.51	17.9	8.8	0.10	253	2.00	0.02	4.5	208
L843605		0.71	4.17	<0.05	0.7	0.18	0.007	0.48	8.0	8.0	0.09	37	0.50	0.01	3.5	8.2
L843606		5.42	2.82	0.13	0.5	0.32	0.035	0.57	16.8	5.8	0.32	118	2.21	0.04	2.6	46.7
L843607		1.22	0.78	<0.05	0.6	0.04	<0.005	0.10	3.8	6.2	2.35	310	1.35	0.01	0.7	13.2
L843608		2.19	0.50	<0.05	1.2	0.07	<0.005	0.05	2.8	6.5	0.02	62	3.39	<0.01	0.5	47.6
L843609		1.83	8.07	0.05	1.2	0.46	0.024	0.88	15.4	16.2	5.67	597	2.08	0.18	7.4	28.0
L843610		0.64	3.27	<0.05	0.5	0.37	0.009	0.40	6.4	6.7	8.09	281	1.08	0.07	3.0	10.6
L843611		2.17	4.04	<0.05	0.6	1.23	0.015	0.51	10.0	5.7	2.31	685	11.85	0.06	3.6	32.5
L843612		4.88	15.30	0.18	2.5	6.7	0.044	2.44	41.3	13.0	0.41	578	33.6	0.03	15.6	99.2
L843613		1.28	20.2	0.10	2.8	6.33	0.043	2.88	38.2	13.4	0.40	62	2.93	0.03	19.0	22.0
L843614		2.54	19.40	0.13	2.8	6.6	0.066	2.70	39.7	15.4	0.36	157	5.78	0.03	18.7	86.0
L843615		22.5	9.49	0.41	1.4	3.16	0.061	1.33	21.5	9.8	0.28	765	35.2	0.02	8.7	100.5
L843616		0.16	0.59	0.11	0.1	0.29	<0.005	0.08	1.2	1.1	4.95	81	0.37	0.01	0.5	<0.2
L843617		0.07	0.49	0.34	<0.1	0.17	<0.005	0.04	0.7	1.1	10.45	121	0.18	0.01	0.3	0.4
L843618		0.41	1.46	<0.05	0.2	0.40	<0.005	0.22	2.3	2.1	3.40	536	0.33	0.01	1.0	7.7
L843619		0.12	0.53	0.32	<0.1	0.19	<0.005	0.04	0.9	0.9	8.44	253	0.16	0.01	0.3	<0.2
L843620		0.12	0.83	0.21	0.1	0.30	0.006	0.10	2.1	1.8	7.45	382	0.14	0.01	0.5	<0.2
L843621		0.23	4.17	0.16	0.6	2.41	0.027	0.45	10.5	23.4	0.15	38	0.24	0.01	3.3	3.3
L843622		0.17	0.35	0.10	<0.1	0.56	<0.005	0.02	0.9	0.6	3.52	386	0.30	<0.01	0.3	0.3
L843623		0.42	16.70	0.30	2.6	2.36	0.093	1.84	45.1	23.8	0.23	71	0.44	0.02	14.7	13.5
L843624		0.10	0.57	0.05	0.1	0.29	<0.005	0.08	2.1	1.0	1.38	48	0.20	<0.01	0.5	<0.2
L843625		0.59	2.18	0.05	0.4	0.38	0.010	0.29	7.9	5.8	6.35	286	0.92	0.07	2.1	8.5
L843626		0.80	3.17	0.05	0.5	0.36	0.013	0.41	10.7	7.4	5.81	316	1.02	0.10	2.9	13.1
L843627		1.01	3.98	<0.05	0.7	0.85	0.018	0.53	13.4	7.5	6.42	345	1.45	0.13	3.7	18.1
L843628		0.67	2.52	<0.05	0.4	0.37	0.010	0.31	9.0	6.0	6.37	308	0.86	0.09	2.3	10.2
L843629		0.83	3.05	<0.05	0.5	0.31	0.012	0.41	10.2	8.2	6.93	311	0.91	0.10	2.7	12.9
L843630		0.78	2.94	<0.05	0.5	0.35	0.011	0.40	10.1	6.9	5.67	292	0.95	0.09	2.7	12.9
L843631		0.53	2.15	<0.05	0.3	1.10	0.008	0.35	5.2	3.4	2.83	160	0.73	0.01	1.4	2.6
L843632		0.37	1.24	<0.05	0.2	0.71	0.008	0.18	3.5	2.9	3.85	414	0.41	0.02	0.9	4.9
L843633		1.13	3.89	0.05	0.6	0.48	0.017	0.53	11.3	10.7	4.53	433	1.20	0.07	3.3	24.5
L843634		0.95	3.77	<0.05	0.7	0.33	0.016	0.56	11.2	9.1	6.04	346	1.09	0.07	3.2	19.5
L843635		0.97	5.54	0.05	0.9	0.72	0.016	0.93	13.4	11.1	9.41	173	1.17	0.03	3.8	27.4
L843636		0.94	17.60	0.26	2.7	2.85	0.070	2.15	48.6	24.2	0.38	307	1.18	0.02	16.1	25.4
L843637		6.61	13.45	0.23	2.6	2.67	0.098	1.58	53.5	20.0	0.27	496	16.65	0.02	12.2	145.5
L843638		0.38	15.55	0.37	2.2	2.62	0.180	1.60	67.5	47.0	0.27	39	0.56	0.02	8.4	36.6
L843639		0.87	8.37	0.11	1.4	2.88	0.038	1.14	19.6	16.1	3.01	454	1.33	0.03	6.6	34.4
L843640		4.80	14.60	0.17	2.8	0.27	0.044	1.30	25.0	30.4	0.47	1510	0.29	0.62	9.4	26.1
L843641		1.97	0.76	0.06	0.8	<0.1	0.005	0.10	4.9	6.8	3.03	431	1.83	0.01	0.8	32.0
L843642		0.45	0.40	<0.05	0.4	0.11	0.008	0.06	3.1	4.6	0.32	134	0.53	0.01	0.5	7.8





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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843603		500	4.1	9.6	<0.002	<0.01	0.38	3.1	3	<0.2	130.5	0.06	<0.05	1.1	0.023	0.15
L843604		700	6.1	34.3	0.003	0.02	1.82	5.5	5	0.5	108.5	0.26	0.05	3.0	0.109	0.54
L843605		90	3.8	35.1	0.003	0.02	0.50	2.1	2	0.4	27.7	0.22	<0.05	2.2	0.087	0.38
L843606		1110	13.5	28.4	0.002	0.68	1.49	2.8	3	0.3	143.0	0.15	<0.05	2.8	0.063	4.61
L843607		210	1.0	5.5	0.003	0.37	0.24	2.6	5	<0.2	761	<0.05	<0.05	0.5	0.016	0.16
L843608		980	1.2	2.5	0.004	0.21	0.78	2.3	9	<0.2	71.2	<0.05	<0.05	0.3	0.009	0.05
L843609		600	70.5	54.8	<0.002	0.03	3.08	7.1	2	0.8	162.5	0.45	<0.05	4.5	0.171	0.70
L843610		290	35.7	23.0	<0.002	0.01	2.04	3.5	2	0.3	149.0	0.17	<0.05	2.0	0.067	0.34
L843611		470	52.6	27.0	<0.002	0.10	5.48	4.2	2	0.4	188.0	0.20	<0.05	2.3	0.078	1.10
L843612		1680	70.2	107.0	<0.002	0.01	21.6	11.1	3	1.9	188.5	1.01	0.10	9.6	0.353	4.42
L843613		770	57.1	156.5	0.003	0.08	6.95	11.5	5	1.9	196.5	1.16	0.09	11.5	0.400	13.90
L843614		960	95.6	146.0	0.003	0.03	12.95	15.3	4	2.0	127.0	1.14	0.12	11.3	0.386	11.20
L843615		900	111.5	61.0	<0.002	0.13	25.7	6.6	3	1.0	99.5	0.52	0.05	6.3	0.188	5.56
L843616		70	7.1	3.5	<0.002	0.01	1.04	0.8	2	<0.2	280	<0.05	<0.05	0.3	0.010	0.11
L843617		70	21.1	1.6	<0.002	<0.01	1.63	3.0	1	<0.2	143.5	<0.05	<0.05	0.2	0.005	0.03
L843618		310	62.7	9.9	<0.002	0.01	0.25	1.9	1	0.2	62.4	0.05	<0.05	0.5	0.024	0.25
L843619		160	14.2	1.7	<0.002	0.01	0.24	0.8	1	<0.2	96.6	<0.05	<0.05	0.2	<0.005	0.05
L843620		220	72.1	4.3	<0.002	0.01	0.29	1.9	1	<0.2	105.5	<0.05	<0.05	0.4	0.011	0.12
L843621		320	20.0	21.5	<0.002	0.01	0.51	1.5	1	0.5	81.2	0.20	<0.05	2.2	0.076	0.33
L843622		90	13.4	1.0	<0.002	0.01	0.93	0.7	1	<0.2	182.5	<0.05	<0.05	<0.2	<0.005	0.05
L843623		650	317	92.5	<0.002	0.01	1.52	6.4	1	2.1	310	0.93	0.07	9.2	0.330	2.01
L843624		40	12.6	3.5	<0.002	0.01	0.75	0.5	1	<0.2	174.0	<0.05	<0.05	0.3	0.011	0.04
L843625		260	16.4	15.1	<0.002	0.03	0.90	2.7	2	0.3	138.0	0.13	<0.05	1.7	0.055	0.45
L843626		300	20.4	22.0	<0.002	0.02	1.13	3.7	2	0.4	148.5	0.18	<0.05	2.3	0.077	0.43
L843627		440	26.4	28.2	<0.002	0.02	1.64	4.3	2	0.5	157.5	0.24	<0.05	3.0	0.099	0.52
L843628		310	20.3	17.2	<0.002	0.02	1.17	3.2	2	0.3	165.5	0.15	<0.05	2.0	0.058	0.42
L843629		330	20.2	21.0	<0.002	0.02	1.09	3.5	2	0.4	145.0	0.17	<0.05	2.3	0.076	0.38
L843630		310	21.5	21.0	<0.002	0.01	1.36	5.9	2	0.4	181.0	0.17	<0.05	2.3	0.073	0.37
L843631		130	49.0	15.8	<0.002	0.01	2.30	2.7	2	0.3	312	0.08	<0.05	1.4	0.036	0.22
L843632		170	87.4	8.1	<0.002	0.01	3.11	3.5	2	0.2	96.9	0.05	<0.05	0.7	0.023	0.24
L843633		420	67.5	27.7	<0.002	0.05	1.66	5.7	2	0.5	139.0	0.21	<0.05	2.8	0.089	0.50
L843634		460	57.9	27.7	<0.002	0.05	1.73	4.3	2	0.5	164.5	0.21	<0.05	2.8	0.087	0.44
L843635		790	78.3	39.0	<0.002	0.01	4.09	4.5	2	0.7	250	0.26	<0.05	3.8	0.115	0.54
L843636		990	979	111.5	<0.002	0.05	8.69	7.9	3	2.2	243	1.04	0.10	10.1	0.340	1.90
L843637		1210	631	78.0	0.002	0.02	51.3	30.6	3	2.0	279	0.77	0.13	8.9	0.267	4.38
L843638		3360	1170	85.9	<0.002	0.02	1.54	6.6	2	1.8	1110	0.59	0.05	9.6	0.263	2.61
L843639		930	103.5	50.3	<0.002	0.04	4.68	5.0	1	1.4	199.5	0.40	0.05	5.5	0.155	1.48
L843640		190	25.6	60.2	<0.002	0.03	0.32	8.2	1	1.6	77.1	0.69	<0.05	12.7	0.328	0.66
L843641		310	1.7	4.7	0.002	0.29	0.33	3.1	3	0.2	444	<0.05	<0.05	0.7	0.018	0.17
L843642		430	2.6	2.7	0.002	0.23	0.31	1.5	2	<0.2	967	<0.05	<0.05	0.4	0.008	0.17



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**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
L843603		1.3	26	0.4	29.7	7	11.2	
L843604		4.8	100	1.0	74.7	611	37.7	
L843605		1.1	63	0.6	8.6	18	29.3	
L843606		2.5	132	0.6	18.5	211	21.4	
L843607		1.2	95	0.2	16.4	66	26.9	
L843608		2.6	31	0.3	23.2	298	24.1	
L843609		2.5	101	1.6	17.8	243	49.6	
L843610		3.0	39	1.2	9.1	124	20.7	
L843611		4.9	91	3.7	17.9	218	27.1	
L843612		6.6	363	21.2	42.4	522	97.9	
L843613		3.6	363	13.2	22.5	112	117.5	
L843614		4.0	384	16.4	28.2	324	117.5	
L843615		4.8	341	11.9	30.4	1410	60.0	1.540
L843616		1.2	8	0.4	3.1	54	3.4	
L843617		2.2	14	0.3	4.9	41	1.8	
L843618		1.4	17	0.7	8.7	292	11.1	
L843619		1.2	13	0.3	3.6	54	2.1	
L843620		1.7	14	0.4	8.5	81	6.3	
L843621		3.2	81	3.4	4.0	9	21.8	
L843622		3.3	11	0.4	5.2	51	1.9	
L843623		8.1	290	18.3	13.9	47	94.9	
L843624		0.5	6	0.5	2.3	23	3.5	
L843625		3.4	38	0.5	10.7	97	14.2	
L843626		3.0	45	0.6	13.0	128	21.9	
L843627		2.7	57	0.8	14.2	171	25.6	
L843628		2.8	37	0.6	11.5	116	16.2	
L843629		2.5	42	0.6	11.7	133	19.1	
L843630		2.4	47	0.8	13.0	152	19.5	
L843631		1.2	18	1.3	9.2	243	10.5	
L843632		1.7	26	0.6	16.0	194	8.7	
L843633		2.1	66	1.0	19.8	284	25.4	
L843634		1.9	59	1.3	14.0	226	24.2	
L843635		3.0	58	4.0	11.5	241	30.3	
L843636		7.6	313	15.9	22.0	108	99.1	
L843637		9.7	353	29.7	39.3	967	95.9	
L843638		9.7	187	15.7	32.1	110	79.5	
L843639		8.1	120	8.2	15.7	217	49.7	
L843640		2.2	59	1.2	14.1	99	95.3	
L843641		1.4	150	0.3	25.4	195	30.0	
L843642		1.8	49	0.4	17.3	44	23.7	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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<b>CERTIFICATE OF ANALYSIS WH12184200</b>
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Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
L843643		2.20	<0.01	0.27	0.46	26	4700	0.17	0.02	21.4	1.65	7.12	2.8	17	0.38	5.6	
L843644		0.62	0.01	1.25	4.63	219	3290	1.36	0.22	0.57	0.71	46.8	2.0	151	13.10	43.4	
L843645		0.84	0.02	1.90	4.35	126.5	5710	1.48	0.17	4.33	3.16	41.3	7.0	159	10.65	63.5	
L843646		0.95	0.03	2.15	4.65	159.5	5450	1.68	0.19	0.59	3.73	45.1	7.5	164	9.58	58.2	
L843647		0.72	0.05	1.75	5.66	847	1840	2.05	0.20	2.16	8.82	71.0	14.9	91	8.50	66.7	
L843648		0.84	0.05	1.80	4.94	200	3650	1.80	0.19	0.38	4.27	55.1	7.2	142	9.79	42.2	
L843649		0.68	0.06	2.43	5.20	499	3060	1.97	0.18	0.42	6.73	65.4	11.7	108	8.40	41.6	
L843650		1.11	0.02	1.19	5.02	264	2360	1.57	0.21	0.41	1.78	51.9	7.9	153	10.35	37.6	
L843651		1.03	0.01	0.37	2.78	145	350	0.75	0.10	22.4	1.79	28.7	6.3	37	2.69	23.0	
L843652		1.16	0.01	0.30	1.42	119	240	0.50	0.06	24.8	1.89	17.80	3.2	21	1.72	8.6	
L843653		1.33	0.01	0.37	3.08	169	400	0.81	0.12	21.9	2.07	33.0	6.1	40	3.10	16.6	
L843654		1.42	0.11	0.45	1.77	93	230	0.56	0.07	25.6	2.06	19.50	3.8	21	2.07	10.4	
L843655		1.36	0.08	0.43	1.91	124	250	0.61	0.07	24.9	2.15	20.7	4.1	23	2.08	11.4	
L843656		1.86	0.07	0.32	1.01	87	180	0.37	0.04	25.6	2.40	12.15	3.5	13	1.39	7.0	
L843657		0.55	0.01	0.20	0.18	120	70	0.19	0.01	25.3	1.90	2.18	1.6	4	0.26	2.4	
L842972		0.34	<0.01	0.63	1.31	891	830	0.57	0.05	0.14	0.81	11.40	6.3	83	2.93	72.6	
L842973		0.24	<0.01	0.70	1.04	230	1040	0.26	0.05	0.15	0.25	13.85	0.6	44	1.63	6.9	
L842974		0.84	<0.01	0.61	0.78	27	4780	0.38	0.03	22.3	2.09	10.30	2.8	49	1.38	10.8	
L842975		0.72	0.01	2.18	4.67	130.5	4300	1.63	0.18	3.28	4.41	42.3	9.4	193	10.15	73.2	
L842976		0.74	<0.01	0.55	1.01	61	5490	0.50	0.04	18.15	61	12.05	12.65	9.1	31	0.94	33.4
L842977		0.93	<0.01	0.37	0.60	27	5530	0.24	0.02	21.7	3.16	8.08	2.9	24	0.75	9.1	
L842978		1.35	<0.01	0.61	4.53	156.0	2000	1.15	0.17	4.11	1.28	42.0	6.2	123	10.30	35.9	
L842979		0.72	<0.01	0.63	3.20	97	4370	0.94	0.12	13.60	1.82	29.3	6.0	104	7.80	40.2	
L842980		0.98	0.02	1.79	4.40	99.4	2130	1.20	0.17	3.34	1.46	38.4	5.3	158	11.50	35.2	
L842981		1.37	0.01	2.42	3.85	99.5	2760	1.23	0.15	2.04	1.27	35.9	4.3	150	10.25	44.9	
L842982		1.09	<0.01	1.34	4.94	129.0	1290	1.30	0.18	0.10	0.69	49.0	4.0	157	12.25	32.4	
L842983		2.69	0.26	0.84	0.53	70	310	0.30	0.02	26.7	5.82	5.27	1.4	8	0.72	3.2	
L842984		0.95	0.05	1.04	3.79	319	1280	1.08	0.13	12.00	3.82	41.0	7.6	51	5.10	24.6	
L842985		0.80	0.04	0.70	3.25	255	920	0.89	0.12	13.05	4.00	34.6	7.0	44	4.70	26.1	
L842986		0.90	0.06	0.57	1.84	167	580	0.51	0.06	18.95	2.74	20.0	4.0	23	2.75	12.3	
L842987		0.70	1.73	11.00	5.74	182.5	830	1.47	0.20	4.06	0.52	58.3	2.1	76	12.65	23.6	
L842988		0.93	1.88	5.37	5.71	1625	1510	1.37	0.23	2.96	2.13	61.6	8.1	91	12.80	60.9	
L842989		0.63	0.91	8.73	6.84	726	1260	1.61	0.27	0.70	2.19	74.1	6.3	99	15.50	65.2	
L842990		0.26	2.01	18.15	3.35	1200	860	0.77	0.22	0.15	3.38	32.1	5.8	67	5.29	57.5	
L842991		0.34	0.02	0.21	0.20	48	90	0.27	0.01	22.2	0.31	2.45	1.2	3	0.38	3.0	
L842992		1.30	0.07	0.46	0.60	165	150	0.36	0.02	24.1	2.01	6.77	2.2	8	1.53	5.3	
L842993		1.06	0.04	0.29	0.46	74	130	0.26	0.02	28.4	3.08	6.12	2.8	6	0.67	5.8	
L842994		1.17	0.15	0.73	2.16	304	810	1.00	0.08	22.8	4.87	22.1	6.7	25	4.52	25.5	
L842995		1.36	0.17	0.69	1.03	158	210	0.56	0.04	26.4	4.21	11.40	4.0	11	2.49	11.2	
L842996		1.96	0.11	0.45	1.15	122	270	0.51	0.04	25.0	2.52	13.25	3.8	12	2.29	10.7	



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**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843643		1.32	1.02	<0.05	0.5	<0.1	0.008	0.16	4.8	7.1	2.67	197	2.38	0.02	1.1	26.3
L843644		2.24	13.30	0.15	2.4	2.08	0.045	1.52	35.6	20.9	0.27	33	7.05	0.05	9.8	39.0
L843645		3.09	10.90	0.14	2.0	0.50	0.042	1.36	30.8	21.1	0.45	133	7.43	0.09	8.9	98.9
L843646		3.30	11.95	0.16	2.1	0.56	0.046	1.49	32.8	22.9	0.29	177	8.38	0.10	9.7	98.9
L843647		4.17	14.50	0.18	2.7	0.9	0.055	1.86	37.1	28.1	0.56	736	8.91	0.44	16.6	102.0
L843648		3.15	13.00	0.16	2.4	0.8	0.049	1.53	37.2	25.4	0.32	247	6.54	0.11	12.2	73.9
L843649		4.56	13.40	0.19	2.2	0.66	0.053	1.56	34.2	29.9	0.42	1280	7.84	0.14	12.1	93.2
L843650		3.42	13.60	0.16	2.4	0.32	0.048	1.47	34.1	24.7	0.35	315	7.47	0.16	12.4	69.8
L843651		1.92	6.82	0.08	1.2	0.6	0.031	0.79	17.5	16.2	1.23	387	1.46	0.51	5.6	21.5
L843652		0.93	3.55	0.06	0.6	0.24	0.014	0.42	12.8	7.9	0.82	246	1.14	0.45	3.3	13.2
L843653		1.89	7.31	0.09	1.3	0.29	0.031	0.95	19.3	17.4	1.27	465	1.69	0.53	6.3	22.4
L843654		1.07	4.39	0.08	0.8	0.3	0.018	0.61	11.4	10.3	4.10	276	0.98	0.35	3.7	14.9
L843655		1.16	4.80	0.10	0.8	0.2	0.019	0.64	12.3	11.7	4.00	281	1.13	0.43	3.9	15.5
L843656		0.62	2.61	0.12	0.5	0.1	0.011	0.34	7.7	5.8	6.87	236	0.73	0.49	2.4	13.2
L843657		0.23	0.69	0.40	0.1	0.07	<0.005	0.06	2.1	0.9	10.05	122	0.36	0.50	0.6	7.5
L842972		5.13	3.96	0.09	0.6	0.3	0.078	0.43	11.2	5.7	0.11	256	2.67	0.01	2.3	36.0
L842973		1.34	3.73	0.08	0.4	0.2	0.009	0.51	15.4	5.3	0.09	39	2.42	0.01	1.9	5.6
L842974		0.85	1.84	0.06	0.7	<0.1	0.008	0.23	8.7	9.0	0.80	117	2.48	0.02	1.9	32.7
L842975		3.50	11.40	0.18	2.0	0.3	0.046	1.47	32.9	19.0	0.25	83	8.60	0.03	8.7	141.5
L842976		2.44	2.08	0.08	0.8	0.1	0.012	0.26	8.6	10.1	1.78	240	5.02	0.02	2.3	98.2
L842977		1.00	1.52	0.05	0.5	0.09	0.012	0.20	5.8	6.1	1.13	167	1.94	0.01	1.5	26.3
L842978		2.59	11.95	0.15	2.0	0.19	0.044	1.45	28.4	12.6	0.49	71	5.99	0.05	8.8	85.1
L842979		2.06	7.99	0.13	1.6	0.1	0.032	1.05	22.9	7.7	0.23	85	6.26	0.03	5.9	77.9
L842980		2.38	11.20	0.16	2.0	1.14	0.039	1.44	30.7	17.9	0.23	82	6.42	0.04	8.4	88.3
L842981		2.72	10.75	0.14	1.8	0.3	0.041	1.25	29.0	11.8	0.70	120	4.56	0.04	7.4	64.9
L842982		2.59	13.95	0.15	2.3	0.1	0.044	1.58	34.3	19.6	0.28	70	4.95	0.08	10.5	48.5
L842983		0.22	1.26	0.16	0.2	0.24	0.007	0.16	3.6	2.1	7.41	313	0.29	0.01	1.0	7.1
L842984		2.44	9.85	0.13	1.7	0.4	0.037	1.16	22.0	18.5	4.41	615	2.65	0.21	8.7	33.7
L842985		2.07	8.27	0.09	1.4	0.4	0.031	1.01	19.2	14.1	5.47	682	2.34	0.19	7.6	29.7
L842986		1.09	4.71	0.10	0.8	0.32	0.018	0.60	11.2	7.8	7.63	296	1.35	0.12	4.4	18.0
L842987		0.67	16.05	0.27	2.6	3.0	0.044	1.98	36.8	19.3	0.73	294	0.71	0.03	14.7	17.2
L842988		2.41	17.25	0.19	3.0	11.4	0.048	2.27	35.6	13.3	0.34	303	5.10	0.02	15.6	44.5
L842989		1.76	20.5	0.17	2.9	15.0	0.048	2.75	39.4	12.0	0.43	52	4.00	0.03	18.0	39.0
L842990		1.98	10.30	0.07	1.4	39.9	0.036	1.21	17.1	9.5	0.16	93	3.60	0.01	7.1	26.6
L842991		0.12	0.85	0.17	0.1	0.20	<0.005	0.06	1.4	1.2	10.40	81	0.29	0.01	0.4	<0.2
L842992		0.36	1.86	0.14	0.2	0.60	0.007	0.20	3.7	2.6	7.21	230	0.66	0.01	1.2	5.7
L842993		0.32	1.60	0.18	0.2	0.25	0.005	0.14	3.9	2.9	4.01	207	0.51	0.03	1.0	0.4
L842994		1.28	5.33	<0.05	0.8	0.50	0.020	0.62	12.9	11.5	3.79	323	1.90	0.15	4.1	33.7
L842995		0.63	2.91	0.06	0.4	0.35	0.007	0.32	6.9	5.5	4.10	254	0.99	0.05	2.0	13.2
L842996		0.62	3.26	0.09	0.4	0.27	0.012	0.37	8.0	5.9	4.37	206	0.84	0.06	2.5	10.1

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**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843643		930	8.9	6.4	0.002	0.21	1.06	1.4	2	0.2	826	0.06	<0.05	1.1	0.023	0.14
L843644		1150	13.1	89.6	0.002	0.40	1.51	7.3	7	1.7	187.5	0.59	0.10	8.2	0.290	15.00
L843645		1510	14.0	74.1	0.003	0.27	2.89	9.5	11	1.4	429	0.55	0.10	7.2	0.242	1.87
L843646		1600	20.9	78.2	0.003	0.26	3.46	10.1	11	1.5	250	0.60	0.12	7.8	0.269	2.08
L843647		1770	64.7	89.7	0.003	0.08	4.67	10.7	4	1.9	161.5	1.02	0.08	10.5	0.367	3.74
L843648		1480	17.4	83.3	0.002	0.21	2.47	10.3	7	1.5	186.0	0.73	0.11	8.4	0.304	2.84
L843649		1450	28.7	81.2	0.005	0.13	3.78	9.6	6	1.6	141.0	0.73	0.09	8.6	0.297	3.30
L843650		1470	22.5	84.8	0.002	0.14	2.64	9.1	7	1.6	158.5	0.78	0.09	8.9	0.322	7.62
L843651		650	36.1	38.2	0.002	0.28	1.40	6.4	2	0.9	204	0.34	<0.05	4.6	0.174	0.60
L843652		440	15.8	21.1	<0.002	0.33	1.07	3.7	2	0.5	179.5	0.19	<0.05	2.6	0.083	0.33
L843653		580	24.0	45.5	<0.002	0.27	1.57	7.0	2	1.0	200	0.39	<0.05	5.7	0.199	0.59
L843654		290	17.4	27.7	<0.002	0.24	1.21	3.6	1	0.7	186.0	0.22	<0.05	3.2	0.094	0.39
L843655		330	20.3	29.3	<0.002	0.29	1.31	4.0	1	0.6	196.5	0.24	<0.05	3.5	0.104	0.38
L843656		220	15.1	16.4	<0.002	0.39	0.80	2.6	1	0.4	168.5	0.13	<0.05	1.9	0.054	0.26
L843657		90	9.8	2.6	<0.002	0.45	2.02	0.8	1	<0.2	133.5	<0.05	<0.05	0.3	0.008	0.10
L842972		590	5.9	25.7	<0.002	0.07	3.32	3.2	1	0.8	97.0	0.11	0.06	1.8	0.058	1.86
L842973		520	5.8	23.5	0.004	0.26	1.63	1.5	2	0.9	172.5	0.11	0.06	2.6	0.045	1.10
L842974		330	2.5	12.0	0.004	0.17	0.77	3.7	4	0.3	1235	0.10	<0.05	1.4	0.039	0.22
L842975		1520	12.2	74.2	0.006	0.23	3.10	9.4	12	1.3	385	0.54	0.11	7.1	0.244	1.42
L842976		1350	5.6	11.4	<0.002	0.18	1.53	3.5	4	0.3	1075	0.14	<0.05	1.9	0.044	0.15
L842977		820	5.4	9.3	0.002	0.20	0.99	1.9	2	0.3	1020	0.08	<0.05	1.2	0.029	0.12
L842978		800	21.2	76.9	0.012	0.15	2.69	8.7	8	1.4	269	0.54	0.08	6.8	0.259	0.81
L842979		610	12.7	55.0	0.017	0.15	1.93	7.4	11	1.0	716	0.35	0.07	4.6	0.169	0.61
L842980		930	14.0	76.4	0.009	0.21	3.37	8.4	10	1.4	262	0.52	0.14	6.5	0.255	3.52
L842981		1350	12.0	74.0	0.010	0.31	2.33	7.7	11	1.2	260	0.48	0.19	6.0	0.221	1.81
L842982		900	14.7	97.3	0.012	0.24	2.04	9.1	9	1.6	128.5	0.73	0.16	7.6	0.310	1.21
L842983		250	73.3	7.2	<0.002	<0.01	0.95	2.1	1	0.2	126.0	0.05	<0.05	0.7	0.020	0.15
L842984		720	63.7	61.9	<0.002	0.04	3.66	7.2	2	1.2	140.5	0.57	<0.05	6.4	0.215	0.89
L842985		710	41.4	54.9	<0.002	0.04	3.06	6.3	2	1.0	134.5	0.49	<0.05	5.5	0.185	0.77
L842986		390	32.5	29.5	<0.002	0.02	1.95	3.6	2	0.6	165.0	0.28	<0.05	3.1	0.102	0.47
L842987		750	154.0	92.3	<0.002	0.01	3.90	5.9	1	2.2	227	0.97	0.06	8.6	0.320	1.62
L842988		1180	195.5	99.4	<0.002	0.02	39.9	11.0	2	2.3	296	1.10	0.11	9.6	0.346	8.56
L842989		810	134.5	114.5	0.005	0.04	22.0	12.3	3	2.5	230	1.14	0.09	10.7	0.405	9.58
L842990		510	174.5	58.3	0.003	0.02	25.7	5.3	2	1.7	126.5	0.46	0.06	4.6	0.175	3.64
L842991		140	8.8	3.0	0.002	<0.01	0.81	0.3	<1	<0.2	126.5	<0.05	<0.05	0.2	0.008	0.10
L842992		250	43.6	9.4	<0.002	<0.01	2.61	1.2	<1	0.2	144.5	0.07	<0.05	0.8	0.028	0.91
L842993		120	20.8	7.3	0.002	<0.01	1.45	1.9	<1	0.2	193.5	0.06	<0.05	0.7	0.026	0.13
L842994		410	48.4	33.9	<0.002	0.02	2.59	5.3	<1	0.6	223	0.27	<0.05	3.2	0.115	0.67
L842995		200	28.1	16.5	0.002	<0.01	1.38	3.3	<1	0.3	161.5	0.13	<0.05	1.6	0.054	0.42
L842996		190	21.1	19.0	0.004	<0.01	1.10	3.4	<1	0.4	156.0	0.15	<0.05	1.8	0.063	0.35

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**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
L843643		1.8	81	0.3	12.5	144	26.4	
L843644		5.3	233	1.8	20.9	102	90.3	
L843645		4.9	258	1.3	40.6	440	79.4	
L843646		5.4	291	1.4	39.2	444	80.3	
L843647		6.9	346	1.6	45.5	649	99.2	
L843648		5.8	268	1.6	35.8	353	88.8	
L843649		5.4	312	1.4	35.7	624	84.1	
L843650		5.2	274	1.6	22.6	329	88.4	
L843651		3.2	83	0.8	17.1	139	43.6	
L843652		3.2	48	0.6	13.8	100	24.0	
L843653		3.0	88	1.0	18.5	149	47.3	
L843654		2.6	50	0.7	11.7	108	27.5	
L843655		2.4	54	0.7	12.7	112	29.8	
L843656		2.0	32	0.5	10.7	112	17.3	
L843657		2.1	11	0.5	6.3	56	3.1	
L842972		1.9	195	0.6	14.3	63	22.8	
L842973		1.9	51	0.5	3.7	9	16.8	
L842974		3.0	78	0.3	23.6	160	31.6	
L842975		5.2	248	1.1	45.8	760	75.6	
L842976		2.5	128	0.5	64.1	793	38.4	
L842977		1.4	63	0.3	15.7	173	23.7	
L842978		4.3	217	1.5	20.9	364	76.7	
L842979		5.3	183	1.0	33.2	354	63.4	
L842980		4.4	261	3.2	21.8	288	72.1	
L842981		4.2	281	1.3	27.9	242	64.8	
L842982		4.3	292	1.9	20.7	177	81.5	
L842983		2.2	19	0.7	10.1	113	7.7	
L842984		3.0	141	1.7	23.2	245	59.9	
L842985		2.4	118	1.5	19.6	205	51.9	
L842986		1.8	70	1.0	11.7	135	28.2	
L842987		7.3	273	14.0	19.2	81	96.0	
L842988		6.3	355	25.2	26.3	417	110.0	
L842989		4.7	373	16.1	23.1	307	111.5	
L842990		2.6	187	8.8	10.2	268	55.1	
L842991		0.6	8	0.4	1.5	39	3.0	
L842992		2.5	25	1.2	3.8	123	9.0	
L842993		1.1	17	0.4	9.0	82	7.4	
L842994		2.8	65	1.3	18.0	325	27.6	
L842995		2.4	36	0.7	12.1	167	13.8	
L842996		2.3	40	0.6	11.0	107	16.8	



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**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L842997		1.54	0.07	0.34	0.75	121	210	0.67	0.03	31.1	2.30	8.55	3.2	9	1.56	18.2
L842998		1.18	0.05	0.28	0.75	129	190	0.64	0.02	29.5	2.18	9.47	3.3	9	1.58	18.5
L842999		1.29	<0.01	0.11	0.44	11.3	610	0.19	0.01	6.10	0.87	10.40	1.8	16	1.05	5.3
L843000		0.83	<0.01	0.06	0.17	4.5	30	0.10	0.01	9.30	0.13	6.98	0.8	5	0.19	1.3
L843560		0.34	<0.01	0.04	7.76	14.1	400	1.69	0.26	0.17	0.06	73.7	166.5	66	7.13	45.2
L843585		0.59	<0.01	0.22	0.26	140	130	0.69	0.01	33.0	3.53	2.93	2.0	5	0.81	6.5
L843586		0.24	<0.01	0.08	5.19	47.2	350	1.45	0.23	1.36	0.83	56.5	12.1	56	4.15	46.1
L843587		0.97	<0.01	0.13	0.06	95	90	0.30	<0.01	35.0	1.75	2.60	2.4	4	0.10	4.5
L843588		0.50	0.01	0.11	0.10	39	70	0.27	<0.01	33.4	1.63	1.51	2.3	2	0.18	2.9
L843589		0.56	0.04	0.03	0.18	64	70	0.28	0.01	34.6	0.32	3.92	1.6	3	0.25	2.2
L843590		0.23	0.01	0.40	5.22	>10000	1890	6.89	0.08	2.56	23.3	70.4	15.4	250	1.74	257
L843591		0.42	0.02	0.05	0.04	53	150	0.88	0.04	23.5	1.92	1.64	3.3	3	<0.05	5.7
L843592		0.38	<0.01	1.97	5.03	78.0	2190	1.41	0.20	0.34	0.94	46.3	3.8	172	16.75	44.7
L843593		0.14	<0.01	0.07	0.42	16	5760	0.41	0.02	13.75	0.85	4.52	2.1	12	0.58	3.0
L843594		0.41	<0.01	1.03	1.75	41.5	1630	0.44	0.05	0.08	0.09	13.50	0.8	46	6.75	7.4
L843595		0.39	0.01	0.05	0.09	31	70	0.14	0.01	33.0	1.07	1.96	1.6	3	0.16	2.3
L843701		0.73	0.12	0.96	5.07	230	1820	1.47	0.19	0.41	0.92	51.5	9.1	138	10.45	39.2
L843702		0.48	0.03	0.90	5.04	190.5	1970	1.29	0.19	0.39	1.11	48.6	8.0	147	10.35	40.4

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**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L842997		0.46	2.09	0.10	0.3	0.23	0.006	0.22	6.2	3.6	2.11	462	0.61	0.05	1.5	5.5
L842998		0.46	2.31	0.09	0.3	0.24	0.008	0.22	6.8	3.8	1.83	537	1.09	0.05	1.6	5.2
L842999		0.74	1.08	<0.05	0.1	0.10	<0.005	0.11	8.3	9.5	0.09	120	0.79	0.02	1.1	8.8
L843000		0.31	0.71	<0.05	0.1	0.03	<0.005	0.06	3.5	2.1	5.69	264	0.27	0.01	0.4	<0.2
L843560		12.65	19.35	0.24	2.1	0.08	0.043	2.41	38.4	53.2	0.87	14200	0.69	0.49	7.9	39.2
L843585		0.30	0.97	<0.05	0.1	0.17	0.006	0.10	1.7	1.0	1.32	410	0.46	<0.01	0.6	<0.2
L843586		5.05	12.25	0.16	2.4	3.63	0.056	1.36	24.2	34.0	0.35	1850	3.46	0.04	7.1	55.6
L843587		0.37	0.43	<0.05	<0.1	0.05	<0.005	0.02	4.9	0.5	0.16	99	0.64	<0.01	0.3	13.0
L843588		0.11	0.81	0.25	<0.1	0.06	<0.005	0.04	1.4	0.6	1.25	168	0.19	<0.01	0.4	<0.2
L843589		0.10	1.09	0.25	0.1	0.13	<0.005	0.07	3.4	0.7	0.15	86	0.28	<0.01	0.5	<0.2
L843590		14.00	20.2	0.63	1.3	1.80	0.742	0.35	36.9	11.0	0.08	266	93.9	0.01	3.0	378
L843591		0.25	0.42	0.14	<0.1	0.15	0.008	<0.01	2.2	1.2	9.51	289	2.16	0.01	0.1	9.2
L843592		2.96	14.55	0.18	2.1	0.18	0.044	1.43	33.3	21.3	0.31	65	6.63	0.10	9.4	63.0
L843593		2.08	0.79	<0.05	0.5	0.01	<0.005	0.12	4.6	8.6	4.29	606	0.90	0.03	0.7	13.4
L843594		2.66	4.88	<0.05	0.8	0.63	0.008	0.74	7.4	8.3	0.15	40	9.33	0.02	3.9	12.9
L843595		0.08	0.55	0.12	0.1	0.17	<0.005	0.02	2.2	0.7	1.59	117	0.25	0.01	0.4	<0.2
L843701		3.30	14.25	0.15	2.2	1.03	0.044	1.42	32.2	26.3	0.34	589	6.79	0.16	12.3	65.7
L843702		3.21	14.10	0.12	2.1	0.45	0.041	1.40	31.5	22.5	0.33	324	7.05	0.13	11.7	71.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L842997		210	16.0	11.4	0.003	<0.01	0.77	2.5	<1	0.2	173.0	0.09	<0.05	1.0	0.039	0.23
L842998		290	16.1	11.8	0.003	<0.01	0.81	2.6	<1	0.3	181.0	0.09	0.05	1.1	0.041	0.21
L842999		760	1.8	5.7	0.002	0.04	0.28	1.2	<1	0.2	85.1	0.05	<0.05	0.7	0.028	0.12
L843000		690	3.7	2.3	0.002	<0.01	0.13	0.4	<1	<0.2	23.5	<0.05	<0.05	0.7	0.014	0.06
L843560		460	18.1	116.0	<0.002	0.19	0.49	11.3	<1	1.8	89.3	0.59	0.06	12.0	0.337	0.61
L843585		170	12.3	4.4	0.003	<0.01	0.80	2.4	<1	0.2	93.2	<0.05	<0.05	0.3	0.011	0.20
L843586		430	13.5	72.8	0.002	0.01	8.84	14.3	1	1.4	102.5	0.51	0.05	8.1	0.370	0.43
L843587		100	1.8	1.0	0.004	<0.01	0.42	5.0	<1	<0.2	210	<0.05	<0.05	<0.2	<0.005	0.02
L843588		20	10.5	1.8	0.004	<0.01	0.22	1.1	<1	<0.2	129.5	<0.05	<0.05	0.2	<0.005	0.05
L843589		70	5.7	3.4	0.003	<0.01	0.36	1.1	<1	<0.2	182.0	<0.05	<0.05	0.3	0.008	0.03
L843590		>10000	13.0	17.7	0.006	0.17	35.8	21.7	20	1.2	4040	0.25	0.09	3.6	0.078	8.66
L843591		180	3.6	0.2	0.004	<0.01	0.33	0.5	<1	<0.2	279	<0.05	<0.05	<0.2	<0.005	0.06
L843592		1150	13.3	97.2	0.008	0.28	2.54	9.9	11	1.5	153.0	0.60	0.15	7.1	0.300	0.97
L843593		520	0.7	5.3	0.002	0.17	0.18	1.8	<1	<0.2	671	0.05	<0.05	0.6	0.022	0.05
L843594		560	7.8	34.2	0.003	0.69	5.44	2.5	9	0.5	32.8	0.24	<0.05	1.4	0.097	0.68
L843595		80	4.7	1.3	0.003	<0.01	0.17	0.8	<1	<0.2	234	<0.05	<0.05	0.2	0.005	0.41
L843701		1420	24.9	93.5	0.002	0.12	2.87	9.8	6	1.6	144.0	0.79	0.10	7.9	0.333	3.69
L843702		1280	20.6	90.1	<0.002	0.12	2.72	9.6	6	1.5	153.5	0.73	0.09	7.7	0.326	3.14



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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12184200**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.1	1	0.1	0.1	2	0.5	0.001
L842997		2.9	27	0.5	12.3	93	9.9	
L842998		4.1	31	0.7	12.6	84	11.4	
L842999		1.2	10	0.1	9.5	26	5.4	
L843000		0.8	2	0.4	2.8	10	5.4	
L843560		2.5	81	1.0	13.1	135	76.2	
L843585		1.5	29	0.8	10.6	150	5.3	
L843586		2.4	106	1.6	34.3	68	89.0	
L843587		3.7	22	0.2	16.2	243	2.1	
L843588		0.7	4	0.2	6.8	70	2.3	
L843589		1.2	4	0.4	9.4	21	2.6	
L843590		40.9	525	4.2	165.5	2620	41.2	2.03
L843591		3.2	12	0.2	8.3	102	0.7	
L843592		4.5	288	1.3	25.1	218	79.2	
L843593		0.9	60	0.2	11.1	79	25.8	
L843594		0.9	189	0.4	5.7	49	31.4	
L843595		2.2	7	0.2	6.1	50	2.6	
L843701		4.8	266	1.7	23.3	278	86.5	
L843702		4.8	267	1.5	22.1	310	85.7	

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**CERTIFICATE OF ANALYSIS WH12184200**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12186240**

Project: ATAC- Regional- Area B  
 P.O. No.: R20  
 This report is for 26 Rock samples submitted to our lab in Whitehorse, YT, Canada on 10- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Pb- VOL70	Pb by Titration	
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12186240**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843703		0.44	0.02	0.13	0.43	30	5250	0.17	0.02	19.95	0.56	6.57	1.6	14	0.25	4.9
L843704		0.59	<0.01	0.06	0.28	22	260	0.12	0.01	29.8	0.52	8.07	0.9	4	0.31	2.5
L843705		0.40	0.01	0.08	0.13	42	950	0.10	0.01	21.1	0.28	3.74	0.7	4	0.23	2.8
L843706		0.21	0.02	0.17	0.33	120	360	0.20	0.01	35.2	0.93	7.55	1.1	5	0.71	3.5
L843707		0.52	0.01	1.11	5.64	117.5	6580	1.70	0.23	1.08	3.41	64.7	3.1	153	15.20	58.3
L843708		0.33	0.02	2.16	2.33	115.5	2980	1.10	0.08	0.96	6.05	33.9	4.7	76	3.45	42.3
L843709		1.70	0.01	1.43	4.47	172.5	3390	1.75	0.16	0.51	4.13	53.3	12.5	123	11.75	70.1
L843710		0.74	<0.01	1.41	4.84	94.6	3740	1.85	0.18	0.47	2.01	50.9	11.5	147	16.65	71.9
L843711		0.98	<0.01	1.15	4.74	105.0	3200	1.57	0.19	0.43	1.85	50.1	9.4	150	16.00	65.4
L843712		0.68	<0.01	1.02	4.37	111.5	1590	1.48	0.18	0.25	2.16	48.0	10.2	173	14.85	55.2
L843713		0.44	<0.01	1.63	4.18	199.0	1580	1.48	0.17	0.25	2.39	49.5	8.6	178	12.50	49.1
L843714		0.52	<0.01	1.36	3.90	120.5	1440	1.35	0.17	0.15	5.84	43.1	10.9	205	12.50	54.7
L843715		0.47	0.04	2.92	6.11	93.7	2770	2.53	0.16	0.94	6.36	66.5	25.2	77	7.91	47.0
L843716		0.08	0.05	4.73	5.79	138.0	6950	2.52	0.16	2.70	5.37	112.5	11.5	136	11.35	36.4
L843717		0.68	0.01	0.04	0.23	5	180	0.14	0.01	26.5	0.48	5.44	1.1	4	0.28	2.4
L843718		1.25	0.01	1.62	4.57	160.0	5150	1.66	0.17	0.93	2.86	50.2	11.2	161	13.00	65.0
L843719		1.67	<0.01	1.86	4.60	346	6170	1.65	0.17	0.90	2.81	53.4	10.6	161	9.84	60.3
L843720		1.69	<0.01	1.65	4.23	69.7	6100	1.49	0.15	0.63	1.76	44.2	8.3	153	13.85	58.2
L843721		1.72	<0.01	2.57	4.51	66.5	4880	1.77	0.18	0.99	1.98	47.2	8.8	206	15.95	79.4
L843722		1.60	<0.01	1.50	4.41	69.7	4100	1.50	0.17	1.15	1.41	45.1	6.8	184	16.05	68.8
L843723		2.09	<0.01	0.76	4.45	505	1820	1.36	0.16	7.26	2.61	52.1	10.7	90	7.10	50.7
L843724		1.76	<0.01	1.34	4.36	228	3840	1.46	0.16	3.51	2.13	50.4	8.9	142	12.00	57.4
L843725		1.15	<0.01	1.12	4.55	90.0	3440	1.53	0.16	0.72	1.31	46.8	7.1	166	17.00	75.6
L843726		1.53	0.01	1.81	4.72	206	1980	1.53	0.20	0.35	0.76	51.7	6.7	151	14.05	42.9
L843727		2.16	0.12	1.67	4.21	168.5	1640	1.68	0.17	0.35	1.25	47.1	6.6	153	11.00	49.4
L843728		0.16	0.03	>100	0.17	4210	220	0.11	0.05	9.93	524	3.01	3.1	4	0.44	148.5

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**CERTIFICATE OF ANALYSIS WH12186240**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843703		0.38	0.81	<0.05	0.4	0.10	0.006	0.13	4.8	3.4	7.35	241	1.29	0.09	1.1	10.0
L843704		0.21	0.60	0.06	0.1	0.02	<0.005	0.11	6.1	2.6	0.23	86	0.57	0.03	0.6	2.5
L843705		0.16	0.23	<0.05	0.1	0.04	<0.005	0.04	3.3	4.5	0.40	69	0.39	0.01	0.4	2.5
L843706		0.14	0.73	<0.05	0.1	0.05	<0.005	0.15	6.0	1.8	0.33	65	0.53	0.01	0.8	3.3
L843707		1.56	15.75	0.12	2.7	0.39	0.048	1.76	47.9	24.2	0.30	140	5.97	0.08	10.9	54.4
L843708		2.00	4.47	0.12	1.3	0.56	0.025	0.48	27.0	24.7	0.10	272	4.64	0.04	4.1	100.0
L843709		3.64	11.80	0.17	2.0	0.17	0.051	1.32	36.5	24.9	0.28	362	5.87	0.11	9.5	135.0
L843710		4.05	13.00	0.17	2.0	0.11	0.054	1.45	39.5	20.3	0.26	223	5.06	0.07	8.9	135.0
L843711		3.94	13.05	0.16	2.0	0.10	0.053	1.40	38.5	20.2	0.26	173	5.77	0.07	9.3	119.5
L843712		3.76	12.55	0.17	1.9	0.09	0.047	1.35	37.6	20.7	0.24	145	7.45	0.07	9.0	134.5
L843713		3.65	11.95	0.16	1.9	0.11	0.048	1.30	37.9	21.6	0.23	90	9.25	0.09	10.1	108.5
L843714		3.99	10.60	0.18	1.7	0.10	0.043	1.19	37.0	20.8	0.21	75	9.13	0.06	8.0	150.5
L843715		3.36	13.45	0.17	2.3	0.42	0.057	1.94	30.7	28.8	0.33	814	2.43	0.07	7.4	112.5
L843716		2.77	14.05	0.23	1.5	0.30	0.050	2.06	79.3	25.7	0.52	674	2.57	0.32	13.1	153.0
L843717		0.25	0.53	<0.05	0.1	0.01	<0.005	0.09	4.6	4.1	0.38	73	0.65	0.02	0.6	2.4
L843718		3.79	12.05	0.17	2.0	0.28	0.049	1.39	34.8	20.2	0.33	259	9.35	0.10	8.8	153.0
L843719		3.92	11.90	0.18	2.0	0.26	0.047	1.35	37.4	24.6	0.31	276	9.23	0.14	10.2	134.5
L843720		3.35	11.25	0.16	1.9	0.21	0.045	1.24	35.6	23.9	0.22	167	6.25	0.06	7.7	119.0
L843721		3.66	12.25	0.19	2.0	0.27	0.049	1.40	40.1	24.0	0.41	189	11.05	0.06	7.9	152.5
L843722		3.21	11.85	0.16	1.8	0.26	0.046	1.39	37.6	20.5	0.28	109	7.42	0.06	8.0	120.5
L843723		3.33	11.80	0.14	2.0	0.32	0.047	1.43	32.5	25.5	1.65	438	6.18	0.23	11.7	73.3
L843724		3.41	11.55	0.15	2.0	0.27	0.047	1.38	36.6	23.0	0.84	314	7.31	0.13	10.7	106.0
L843725		3.08	12.25	0.17	1.9	0.24	0.049	1.43	37.8	21.6	0.32	108	6.64	0.06	8.3	124.0
L843726		3.25	12.95	0.18	2.1	0.64	0.048	1.48	35.3	22.5	0.32	165	6.74	0.14	11.4	70.6
L843727		2.98	11.35	0.17	1.8	2.48	0.045	1.37	34.9	20.0	0.22	113	6.65	0.07	8.7	90.0
L843728		0.13	1.26	0.13	0.1	>100	0.014	0.06	3.1	3.1	0.42	185	78.1	0.01	0.3	89.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12186240**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843703		890	2.0	4.8	0.003	0.14	0.46	1.1	1	<0.2	1205	0.07	<0.05	0.8	0.023	0.12
L843704		140	0.9	4.7	0.003	0.03	0.22	0.7	1	<0.2	393	<0.05	<0.05	0.4	0.012	0.10
L843705		100	1.1	1.8	0.002	0.04	0.23	0.5	1	<0.2	337	<0.05	<0.05	0.2	0.006	0.09
L843706		290	1.2	6.0	0.003	0.06	0.53	0.8	1	<0.2	545	<0.05	<0.05	0.5	0.015	0.18
L843707		640	16.0	99.1	0.002	0.29	1.54	13.1	5	1.9	165.5	0.81	0.08	9.7	0.349	3.74
L843708		3140	8.7	26.4	0.011	0.23	1.58	10.5	6	0.7	243	0.31	0.07	3.8	0.107	0.64
L843709		1600	15.9	76.9	0.002	0.13	2.66	14.3	9	1.4	181.5	0.67	0.10	7.4	0.272	1.70
L843710		1810	13.0	87.2	0.002	0.12	2.51	13.3	10	1.5	199.0	0.62	0.12	7.6	0.285	1.39
L843711		1630	15.0	85.5	<0.002	0.11	2.54	10.9	10	1.5	188.0	0.67	0.11	7.6	0.287	1.13
L843712		1220	13.8	83.5	0.002	0.11	2.65	10.4	12	1.5	181.0	0.64	0.11	7.1	0.269	0.99
L843713		1510	19.2	79.6	0.003	0.19	3.35	9.7	11	1.5	190.5	0.71	0.12	6.9	0.267	1.15
L843714		1370	15.1	73.5	0.003	0.20	3.27	8.7	15	1.2	256	0.57	0.12	6.5	0.231	0.92
L843715		4630	86.0	75.5	0.010	0.11	1.16	19.9	5	1.5	136.5	0.58	0.05	9.4	0.234	1.29
L843716		>10000	18.3	87.0	0.013	0.18	0.68	12.6	5	0.9	180.5	0.77	0.07	6.3	0.306	1.44
L843717		130	1.7	4.0	<0.002	0.04	0.29	0.6	1	<0.2	484	<0.05	<0.05	0.4	0.011	0.05
L843718		1580	22.5	77.3	0.004	0.21	4.03	12.6	16	1.4	269	0.64	0.10	7.5	0.257	1.09
L843719		1830	32.5	72.5	0.003	0.22	3.84	11.5	13	1.4	285	0.70	0.12	7.7	0.279	1.15
L843720		1800	11.2	73.8	0.004	0.18	2.34	11.9	9	1.3	223	0.54	0.10	6.6	0.230	0.65
L843721		1860	12.6	81.4	0.004	0.18	3.14	13.2	14	1.4	263	0.56	0.14	7.4	0.252	0.69
L843722		1380	12.0	79.3	0.005	0.14	2.66	11.6	10	1.4	243	0.57	0.11	6.7	0.249	0.63
L843723		1200	22.1	67.9	0.004	0.12	3.00	11.5	6	1.3	238	0.81	0.09	7.1	0.308	1.05
L843724		1460	16.5	72.5	0.005	0.16	2.84	11.5	9	1.4	271	0.74	0.11	7.1	0.274	0.80
L843725		1280	12.1	83.0	0.003	0.11	2.66	12.3	9	1.4	209	0.59	0.11	6.9	0.257	0.72
L843726		1330	21.5	85.6	0.005	0.20	3.06	10.1	11	1.6	176.0	0.81	0.18	7.8	0.322	2.19
L843727		1660	17.1	78.0	0.007	0.19	2.55	9.5	12	1.4	190.5	0.62	0.20	6.7	0.252	3.81
L843728		250	>10000	2.8	0.004	3.13	2870	0.8	42	0.2	130.0	<0.05	<0.05	0.3	0.008	2.26

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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12186240**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Ag- OG62	Pb- OG62	Zn- OG62	Hg- CV42	Pb- VOL70
		U	V	W	Y	Zn	Zr	Ag	Pb	Zn	Hg	Pb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
		0.1	1	0.1	0.1	2	0.5	1	0.001	0.001	0.1	0.01
L843703		1.4	57	0.2	7.1	49	18.0					
L843704		1.0	17	0.1	6.4	40	3.2					
L843705		0.5	9	0.1	3.7	13	2.6					
L843706		1.5	27	0.1	6.1	64	4.1					
L843707		6.5	245	2.1	65.6	232	93.9					
L843708		6.8	122	0.5	76.4	317	53.9					
L843709		5.4	222	1.2	55.5	677	72.8					
L843710		5.5	246	1.2	38.3	679	75.4					
L843711		5.6	249	1.2	28.8	534	74.4					
L843712		5.1	242	1.2	27.3	576	68.5					
L843713		4.8	263	1.1	29.6	461	67.7					
L843714		4.9	250	1.0	34.9	674	60.2					
L843715		5.5	109	1.2	66.7	468	82.5					
L843716		6.2	118	0.6	89.1	339	61.2					
L843717		1.0	13	0.1	3.8	26	3.1					
L843718		5.3	244	1.4	41.5	607	71.2					
L843719		5.2	279	1.2	41.7	471	76.0					
L843720		4.5	246	1.0	39.7	367	70.9					
L843721		6.4	256	1.0	50.2	423	72.8					
L843722		5.5	234	1.1	41.4	337	64.1					
L843723		3.9	244	1.1	29.1	260	71.9					
L843724		4.7	240	1.1	37.0	349	71.4					
L843725		5.5	237	1.1	38.3	372	65.9					
L843726		4.7	287	1.7	24.2	273	75.8					
L843727		5.1	278	2.9	30.4	322	66.1					
L843728		12.7	126	0.4	5.4	>10000	3.3	698	>20.0	6.45	166.5	42.49

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**CERTIFICATE OF ANALYSIS WH12186240**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12186536**

Project: ATAC- Regional Area  
 P.O. No.: Soil 30  
 This report is for 148 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

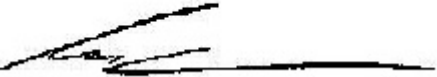
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12186536**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50108		0.26	0.005	0.24	1.40	22.9	<0.2	<10	430	1.08	0.26	0.42	0.83	29.6	18.8	29
ZZ50109		0.21	0.009	0.28	0.89	14.3	<0.2	<10	330	0.68	0.28	0.48	0.32	12.35	11.0	17
ZZ50110		0.23	0.009	0.13	0.54	10.4	<0.2	<10	150	0.22	0.31	0.21	0.07	5.82	4.4	9
ZZ50111		0.24	0.003	0.18	0.74	16.0	<0.2	<10	240	0.74	0.33	0.33	0.29	9.48	12.3	17
ZZ50112		0.19	0.010	0.35	0.71	12.3	<0.2	<10	180	0.66	0.44	0.24	0.25	7.30	11.3	23
ZZ50113		0.22	0.007	0.29	1.30	16.4	<0.2	<10	390	0.83	0.24	0.95	0.52	16.25	12.8	21
ZZ50114		0.29	0.007	0.20	1.38	22.2	<0.2	<10	340	1.08	0.33	0.28	0.25	21.5	14.4	24
ZZ50115		0.22	0.003	0.17	1.32	20.4	<0.2	<10	240	0.79	0.27	0.65	0.40	17.20	13.1	23
ZZ50116		0.24	0.008	0.15	1.24	20.5	<0.2	<10	220	0.88	0.31	0.35	0.31	19.70	14.8	22
ZZ50117		0.27	0.006	0.15	1.33	17.1	<0.2	<10	290	0.94	0.29	1.09	0.27	15.60	14.1	23
ZZ50118		0.23	0.006	0.19	1.13	12.4	<0.2	<10	260	0.83	0.30	0.94	0.11	13.25	10.3	32
ZZ50119		0.26	0.008	0.48	0.58	40.2	<0.2	<10	310	0.40	0.32	0.50	0.08	6.63	6.3	50
ZZ50120		0.21	0.002	0.12	1.20	18.1	<0.2	<10	230	0.88	0.38	0.40	0.35	12.90	19.1	24
ZZ50121		0.25	0.005	0.05	1.22	15.1	<0.2	<10	140	0.52	0.39	0.07	0.12	16.25	11.3	25
ZZ50122		0.22	0.007	0.07	1.26	13.6	<0.2	<10	170	0.88	0.33	0.09	0.17	19.00	9.3	25
ZZ50123		0.23	0.007	0.07	1.09	13.7	<0.2	<10	340	1.15	0.42	0.07	0.09	14.70	12.8	19
ZZ50124		0.24	0.008	0.08	1.31	11.4	<0.2	<10	310	1.13	0.44	0.07	0.11	11.10	15.1	26
ZZ50125		0.23	0.005	0.25	0.99	15.4	<0.2	<10	240	0.81	0.26	0.45	0.26	16.30	11.1	19
ZZ50126		0.27	0.006	0.12	1.18	22.5	<0.2	<10	60	0.62	0.57	0.07	0.17	8.57	10.6	16
ZZ50127		0.25	0.011	0.31	0.59	14.2	<0.2	<10	190	0.91	0.21	1.03	0.35	52.2	25.6	18
ZZ50128		0.27	0.005	0.28	1.14	9.4	<0.2	<10	270	1.34	0.29	0.74	0.42	22.9	21.6	29
ZZ50129		0.26	0.002	2.27	0.47	14.5	<0.2	<10	190	0.23	0.22	0.01	0.72	3.25	3.3	12
ZZ50130		0.24	0.007	1.38	0.24	18.1	<0.2	<10	330	0.16	0.46	0.01	0.24	3.47	0.5	6
ZZ50131		0.25	0.005	0.61	0.33	10.2	<0.2	<10	140	0.40	0.21	0.64	0.23	5.30	8.1	18
ZZ50132		0.24	0.011	3.31	0.36	23.5	<0.2	<10	570	0.40	0.23	0.73	3.42	3.51	7.5	16
ZZ50133		0.22	0.010	2.31	0.65	15.9	<0.2	<10	400	0.67	0.22	1.50	5.03	8.01	11.9	18
ZZ50134		0.23	0.007	1.08	0.45	9.2	<0.2	<10	430	0.45	0.18	1.54	4.78	5.82	5.4	14
ZZ50135		0.14	0.007	0.36	0.75	11.0	<0.2	<10	310	0.81	0.09	4.64	3.77	6.72	20.7	63
ZZ50136		0.25	0.016	0.56	0.85	18.7	<0.2	<10	420	0.87	0.24	0.87	1.94	10.55	12.5	30
ZZ50137		0.24	0.003	0.15	0.77	19.8	<0.2	<10	80	0.25	0.29	0.02	0.25	9.86	9.2	16
ZZ50138		0.35	0.012	0.65	1.07	13.4	<0.2	<10	330	0.67	0.26	0.43	1.26	15.65	10.0	18
ZZ50139		0.24	0.002	0.36	1.04	12.0	<0.2	<10	340	0.50	0.30	0.25	0.64	11.75	15.4	17
ZZ50140		0.22	0.006	0.23	1.06	11.7	<0.2	<10	320	0.55	0.27	0.42	0.64	14.50	9.7	19
ZZ50141		0.27	0.008	0.23	1.12	18.6	<0.2	<10	330	0.81	0.31	0.37	0.50	9.29	12.5	19
ZZ50142		0.22	0.007	0.20	0.95	12.5	<0.2	<10	450	0.48	0.30	0.19	0.40	11.35	7.6	15
ZZ50143		0.28	0.005	0.35	0.98	13.6	<0.2	<10	460	0.91	0.32	0.35	0.51	11.35	10.1	17
ZZ50144		0.26	0.003	0.18	0.88	10.9	<0.2	<10	380	0.54	0.23	0.50	0.25	10.70	5.2	12
ZZ50145		0.23	0.013	0.73	1.44	15.6	<0.2	<10	670	1.05	0.26	1.09	0.61	11.95	9.5	22
ZZ50146		0.33	0.004	0.27	0.94	17.0	<0.2	<10	380	0.66	0.22	0.45	0.49	16.70	9.1	17
ZZ50147		0.21	0.003	0.20	0.98	10.4	<0.2	<10	280	0.53	0.23	0.17	0.37	10.65	7.5	15



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**CERTIFICATE OF ANALYSIS WH12186536**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ50108		1.30	54.6	5.21	4.10	0.11	0.06	0.13	0.046	0.07	13.3	19.0	0.42	642	3.56	0.01
ZZ50109		1.81	29.6	3.74	2.63	<0.05	0.05	0.13	0.038	0.08	5.8	8.4	0.21	428	3.43	0.01
ZZ50110		1.12	10.1	2.15	1.78	<0.05	<0.02	0.11	0.022	0.06	2.8	3.6	0.10	141	2.99	0.01
ZZ50111		1.13	31.8	3.48	2.34	<0.05	0.04	0.15	0.041	0.06	4.5	6.8	0.17	417	3.68	0.01
ZZ50112		1.64	31.2	4.24	1.89	<0.05	0.04	0.07	0.048	0.07	3.4	5.6	0.12	373	1.89	0.01
ZZ50113		1.38	36.7	3.32	3.82	<0.05	0.07	0.15	0.036	0.09	7.7	16.3	0.49	543	1.55	0.01
ZZ50114		3.46	45.7	4.00	4.31	0.06	0.08	0.09	0.034	0.08	10.0	23.8	0.51	488	1.88	0.01
ZZ50115		1.79	39.7	3.87	4.18	0.05	0.08	0.09	0.036	0.08	7.6	20.5	0.51	372	2.10	0.01
ZZ50116		1.34	42.9	3.84	3.81	<0.05	0.07	0.09	0.036	0.07	8.1	22.2	0.48	547	2.14	0.01
ZZ50117		1.91	39.3	3.46	4.14	<0.05	0.07	0.11	0.034	0.07	6.9	20.4	0.43	734	2.48	0.01
ZZ50118		1.36	25.0	3.29	3.40	<0.05	0.06	0.16	0.039	0.06	6.2	15.8	0.32	256	3.42	0.01
ZZ50119		0.97	19.7	3.63	2.70	<0.05	0.02	0.28	0.044	0.11	3.4	5.3	0.09	162	7.94	0.01
ZZ50120		2.62	43.5	4.74	4.01	<0.05	0.05	0.05	0.042	0.07	5.8	15.7	0.31	502	2.14	0.01
ZZ50121		3.15	25.8	3.88	5.58	<0.05	0.02	0.03	0.030	0.09	7.6	13.2	0.31	590	1.75	0.01
ZZ50122		3.77	30.7	3.64	5.19	<0.05	0.02	0.03	0.029	0.09	8.9	18.3	0.33	428	1.56	0.01
ZZ50123		3.88	34.8	3.65	4.88	0.07	0.02	0.02	0.035	0.08	7.1	8.9	0.19	1120	1.59	<0.01
ZZ50124		6.28	39.6	4.12	4.58	<0.05	0.02	0.03	0.031	0.08	4.8	13.8	0.29	2160	2.16	0.01
ZZ50125		1.34	41.3	3.09	3.15	0.05	0.07	0.11	0.033	0.06	8.7	13.0	0.36	378	3.06	0.01
ZZ50126		3.31	31.4	3.84	4.07	<0.05	0.02	0.02	0.040	0.06	3.9	11.2	0.24	439	0.99	0.01
ZZ50127		1.18	51.7	5.97	2.29	0.14	0.07	0.08	0.101	0.04	24.9	3.5	0.09	888	2.93	0.01
ZZ50128		2.78	78.8	6.35	3.58	0.10	0.05	0.06	0.061	0.06	11.4	8.3	0.17	1000	2.69	0.01
ZZ50129		1.74	27.6	2.45	2.70	<0.05	<0.02	0.03	0.022	0.08	1.8	1.0	0.02	35	6.61	0.01
ZZ50130		2.49	46.7	2.89	1.08	<0.05	0.10	0.13	0.077	0.31	1.8	2.5	<0.01	<5	27.9	0.02
ZZ50131		1.09	40.2	2.52	1.51	<0.05	0.05	0.13	0.035	0.04	2.8	1.1	0.06	171	8.82	0.01
ZZ50132		1.38	42.5	3.42	2.12	<0.05	0.03	0.21	0.037	0.11	2.2	2.8	0.03	105	15.30	0.01
ZZ50133		1.44	33.5	3.50	1.87	<0.05	0.09	0.21	0.032	0.06	5.2	2.8	0.07	237	11.80	0.01
ZZ50134		0.97	28.1	1.97	1.49	<0.05	0.08	0.21	0.026	0.04	3.4	1.8	0.04	152	6.01	0.01
ZZ50135		0.42	20.0	4.60	1.20	0.05	0.08	0.12	0.025	0.02	4.8	2.0	0.06	368	39.9	0.01
ZZ50136		0.96	39.7	3.70	2.37	<0.05	0.07	0.25	0.035	0.06	6.0	7.6	0.17	363	11.35	0.01
ZZ50137		1.21	28.3	3.45	3.97	<0.05	<0.02	0.12	0.030	0.06	4.7	4.5	0.14	208	3.31	0.01
ZZ50138		2.14	41.4	3.40	3.57	0.06	0.04	0.17	0.037	0.10	9.5	20.9	0.15	563	3.59	0.01
ZZ50139		1.75	31.7	3.24	3.68	<0.05	0.02	0.06	0.040	0.08	5.6	7.7	0.16	633	3.29	0.01
ZZ50140		1.61	35.6	2.82	3.50	<0.05	0.03	0.08	0.036	0.08	7.2	16.1	0.26	413	2.99	0.01
ZZ50141		1.60	48.2	4.22	3.48	<0.05	0.04	0.08	0.044	0.08	4.3	14.2	0.27	487	3.25	0.01
ZZ50142		1.88	31.4	2.94	3.64	<0.05	0.02	0.07	0.033	0.08	5.4	9.1	0.15	234	4.08	0.01
ZZ50143		1.62	44.2	3.40	3.29	<0.05	0.05	0.11	0.042	0.08	5.3	11.4	0.23	278	3.75	0.01
ZZ50144		1.47	25.6	2.50	3.26	<0.05	0.02	0.07	0.026	0.06	5.2	6.7	0.13	153	2.39	0.01
ZZ50145		1.48	43.7	3.36	3.82	<0.05	0.11	0.25	0.039	0.09	6.6	15.1	0.32	508	2.73	0.01
ZZ50146		1.08	43.5	2.73	3.04	<0.05	0.07	0.17	0.031	0.08	7.3	12.8	0.32	272	2.65	0.01
ZZ50147		1.37	23.0	2.63	3.87	<0.05	0.02	0.05	0.029	0.06	4.7	8.1	0.21	223	2.34	0.01



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Project: ATAC- Regional Area  
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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50108		0.23	48.1	800	23.4	9.3	0.001	0.02	1.38	7.9	1.5	0.6	28.7	0.01	0.06	3.8
ZZ50109		0.17	29.5	690	15.9	11.7	0.001	0.04	0.78	5.2	0.8	0.6	33.3	<0.01	0.06	1.6
ZZ50110		0.08	9.1	290	12.6	8.1	<0.001	0.02	0.42	2.3	<0.2	0.6	18.5	<0.01	0.05	1.2
ZZ50111		0.13	32.6	480	15.5	7.1	0.001	0.03	0.65	5.2	1.0	0.5	27.7	<0.01	0.08	1.9
ZZ50112		0.06	27.4	570	18.2	8.1	0.001	0.04	0.83	5.4	0.8	0.8	28.7	<0.01	0.10	2.3
ZZ50113		0.32	33.0	690	15.9	10.5	<0.001	0.05	0.57	5.2	0.8	0.5	39.8	0.01	0.06	1.7
ZZ50114		0.25	36.0	500	20.5	13.6	<0.001	0.02	0.69	6.6	0.8	0.4	35.4	0.01	0.07	3.8
ZZ50115		0.26	33.8	360	17.3	13.6	0.001	0.03	0.68	5.3	0.7	0.5	42.2	<0.01	0.07	2.8
ZZ50116		0.18	34.2	360	21.5	8.7	<0.001	0.02	0.69	4.4	0.7	0.4	38.3	<0.01	0.07	3.8
ZZ50117		0.33	29.5	680	18.6	10.3	0.001	0.05	0.63	4.3	0.8	0.6	33.0	<0.01	0.06	2.3
ZZ50118		0.34	22.3	540	16.8	9.0	0.001	0.04	0.51	4.2	0.7	0.7	33.5	<0.01	0.08	2.6
ZZ50119		0.14	18.6	720	18.0	9.3	0.004	0.27	1.10	3.8	1.6	0.5	67.3	<0.01	0.12	1.0
ZZ50120		0.22	42.2	560	27.2	9.3	<0.001	0.05	0.93	4.8	0.7	0.6	55.8	<0.01	0.08	2.5
ZZ50121		0.36	20.7	370	18.1	15.1	<0.001	0.01	0.48	3.5	<0.2	0.8	10.8	<0.01	0.05	2.8
ZZ50122		0.59	19.2	460	16.8	16.7	<0.001	0.02	0.54	3.3	<0.2	0.7	13.8	<0.01	0.06	2.6
ZZ50123		0.42	16.4	430	22.4	14.8	<0.001	0.01	0.53	3.7	0.5	0.9	12.2	<0.01	0.07	2.5
ZZ50124		0.42	17.2	470	25.5	15.0	<0.001	0.02	0.34	3.8	0.2	0.9	11.6	<0.01	0.05	3.8
ZZ50125		0.26	31.9	330	15.0	6.8	0.001	0.02	1.10	4.8	0.8	0.4	23.4	0.01	0.06	2.8
ZZ50126		0.19	18.1	390	17.2	12.5	<0.001	0.01	0.30	3.9	<0.2	0.5	11.5	<0.01	0.05	2.2
ZZ50127		0.26	65.1	1940	22.1	5.3	0.001	0.08	1.00	10.9	1.7	1.0	125.5	0.01	0.05	4.2
ZZ50128		0.32	107.0	1380	14.4	10.8	<0.001	0.05	0.60	8.7	1.0	0.9	50.0	0.01	0.08	1.7
ZZ50129		0.14	26.1	940	17.3	10.2	<0.001	0.15	5.54	1.4	5.4	0.6	34.2	<0.01	0.12	0.6
ZZ50130		0.06	7.0	310	33.4	23.4	0.011	0.83	4.70	1.5	4.9	1.4	110.5	<0.01	0.10	1.1
ZZ50131		0.09	51.5	600	14.5	5.4	0.002	0.04	2.18	5.7	1.2	0.6	58.4	<0.01	0.09	0.8
ZZ50132		0.06	69.8	890	17.3	8.8	0.002	0.25	7.79	2.6	5.7	0.6	212	<0.01	0.14	0.9
ZZ50133		0.14	84.7	1020	14.5	7.6	0.004	0.10	4.27	3.5	4.0	0.6	137.5	0.01	0.16	0.9
ZZ50134		0.10	31.5	980	11.8	5.7	0.010	0.12	2.38	2.7	3.9	0.5	62.9	<0.01	0.08	0.5
ZZ50135		0.24	139.5	1600	5.5	2.4	0.004	0.21	2.51	2.0	4.9	0.2	76.9	0.01	0.08	0.2
ZZ50136		0.15	61.2	970	13.8	6.8	0.002	0.05	1.70	4.9	2.1	0.5	55.0	0.01	0.11	1.2
ZZ50137		0.36	26.6	540	15.7	14.1	<0.001	0.03	0.95	2.4	0.6	0.5	13.5	<0.01	0.07	1.0
ZZ50138		0.19	34.3	980	15.4	14.2	0.002	0.03	1.00	3.6	1.6	0.6	29.6	0.01	0.07	1.1
ZZ50139		0.29	25.0	640	18.1	12.6	<0.001	0.02	0.65	2.6	0.6	0.6	24.7	<0.01	0.06	1.2
ZZ50140		0.47	32.0	720	14.5	11.4	0.002	0.03	1.29	3.0	1.4	0.8	25.6	<0.01	0.06	2.3
ZZ50141		0.19	33.5	680	18.8	9.9	0.001	0.03	1.00	4.3	0.9	0.5	26.7	<0.01	0.08	2.1
ZZ50142		0.21	28.8	510	12.8	12.0	0.001	0.02	0.70	3.4	0.6	0.6	23.2	<0.01	0.07	1.5
ZZ50143		0.23	37.6	680	15.7	10.7	0.001	0.04	0.92	4.7	1.3	0.5	34.1	<0.01	0.08	2.4
ZZ50144		0.32	19.4	450	11.1	9.5	<0.001	0.02	0.65	3.1	0.5	0.5	25.5	<0.01	0.06	1.2
ZZ50145		0.31	35.0	940	15.0	11.6	0.004	0.08	0.90	5.6	2.7	0.6	53.5	0.01	0.08	1.5
ZZ50146		0.25	32.7	830	12.6	7.1	0.001	0.02	1.12	5.0	1.2	0.4	29.4	<0.01	0.06	3.3
ZZ50147		0.27	22.0	680	13.3	8.7	<0.001	0.04	0.60	2.9	0.5	0.5	16.5	<0.01	0.06	1.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50108		<0.005	0.19	1.11	57	0.08	15.55	153	1.2
ZZ50109		<0.005	0.18	1.03	32	0.06	8.48	106	1.1
ZZ50110		<0.005	0.15	0.43	18	<0.05	2.82	34	<0.5
ZZ50111		<0.005	0.17	1.12	23	0.06	8.12	103	1.1
ZZ50112		<0.005	0.12	1.04	20	<0.05	8.09	107	1.0
ZZ50113		0.005	0.13	1.25	36	0.11	12.25	105	1.5
ZZ50114		0.006	0.12	0.95	40	0.08	11.90	104	1.9
ZZ50115		0.005	0.11	0.76	40	0.08	7.44	120	2.4
ZZ50116		<0.005	0.14	1.05	37	0.05	6.48	110	2.2
ZZ50117		0.005	0.13	0.90	38	0.09	7.54	91	1.9
ZZ50118		0.005	0.14	1.25	34	0.10	7.35	63	1.9
ZZ50119		<0.005	0.33	0.74	36	0.07	4.46	53	0.7
ZZ50120		<0.005	0.17	0.87	43	0.07	8.28	136	1.2
ZZ50121		0.007	0.12	0.57	45	0.16	3.73	72	0.5
ZZ50122		0.013	0.11	0.69	47	0.25	4.08	75	<0.5
ZZ50123		0.005	0.10	0.74	33	0.15	4.95	57	<0.5
ZZ50124		0.010	0.08	0.94	31	0.23	4.50	56	<0.5
ZZ50125		0.007	0.23	0.65	43	0.10	11.65	99	1.6
ZZ50126		<0.005	0.08	0.52	23	0.05	3.36	79	<0.5
ZZ50127		<0.005	0.26	0.63	64	0.07	20.8	124	0.9
ZZ50128		0.005	0.20	1.21	88	0.15	13.70	118	<0.5
ZZ50129		<0.005	0.43	0.71	150	0.08	1.11	194	<0.5
ZZ50130		<0.005	12.90	5.16	119	0.28	6.66	5	6.8
ZZ50131		<0.005	0.74	0.90	101	0.11	11.30	110	1.4
ZZ50132		<0.005	1.91	1.83	177	0.10	10.05	343	0.9
ZZ50133		<0.005	0.80	2.46	134	0.11	19.85	430	2.1
ZZ50134		<0.005	0.65	2.70	84	0.07	10.85	149	1.9
ZZ50135		0.006	0.24	4.71	32	0.12	30.8	616	1.1
ZZ50136		<0.005	0.30	1.74	54	0.09	18.25	282	1.4
ZZ50137		0.007	0.16	0.37	49	0.09	2.58	116	<0.5
ZZ50138		<0.005	0.32	1.78	53	0.09	13.50	173	0.5
ZZ50139		0.006	0.25	0.92	47	0.10	4.94	114	<0.5
ZZ50140		0.012	0.21	1.10	46	0.15	5.93	169	0.6
ZZ50141		<0.005	0.21	0.71	45	0.06	6.51	162	1.0
ZZ50142		<0.005	0.24	0.83	45	0.08	6.03	104	<0.5
ZZ50143		<0.005	0.25	1.16	39	0.09	9.12	143	1.1
ZZ50144		0.005	0.19	0.83	40	0.11	6.00	98	<0.5
ZZ50145		<0.005	0.22	2.38	47	0.09	15.80	108	2.5
ZZ50146		0.006	0.16	0.88	36	0.07	11.55	129	1.8
ZZ50147		0.005	0.14	0.97	35	0.09	4.79	88	<0.5



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50148		0.22	0.006	0.28	1.28	9.6	<0.2	<10	370	0.68	0.25	0.35	0.43	17.50	5.2	19
ZZ50149		0.23	0.004	0.09	1.11	9.0	<0.2	<10	80	0.20	0.25	0.05	0.11	18.70	2.7	17
ZZ50150		0.27	0.002	0.13	1.14	16.2	<0.2	<10	120	0.65	0.28	0.16	0.36	13.60	12.7	20
ZZ50151		0.24	0.004	0.12	1.19	20.0	<0.2	<10	230	0.81	0.27	0.30	0.34	15.90	16.3	22
ZZ50152		0.22	0.009	0.46	1.39	15.7	<0.2	<10	520	0.97	0.24	1.12	0.51	15.00	9.2	21
ZZ50153		0.29	0.006	0.27	1.34	24.4	<0.2	<10	530	0.87	0.25	0.41	0.27	11.30	10.6	22
ZZ50154		0.18	0.007	0.47	1.77	25.7	<0.2	<10	490	1.08	0.19	3.07	0.54	12.10	13.6	27
ZZ50155		0.21	0.005	0.37	0.67	18.0	<0.2	<10	250	0.55	0.18	1.04	0.66	8.91	7.7	12
ZZ50156		0.19	0.009	0.59	1.13	23.2	<0.2	<10	440	0.73	0.17	1.84	1.15	14.25	10.6	19
ZZ50157		0.13	0.005	0.54	1.04	19.1	<0.2	<10	540	0.73	0.17	1.93	0.93	13.65	7.8	17
ZZ50158		0.23	0.006	0.68	1.00	22.0	<0.2	<10	460	0.60	0.19	1.12	0.55	12.95	8.1	18
ZZ50159		0.22	0.014	0.76	0.75	14.5	<0.2	<10	540	0.51	0.18	1.25	0.90	10.20	6.4	13
ZZ50160		0.21	0.012	1.04	0.89	14.5	<0.2	<10	620	0.52	0.20	1.20	0.66	12.05	6.7	15
ZZ50161		0.23	0.017	0.60	0.92	18.1	<0.2	<10	440	0.60	0.20	0.90	1.11	15.40	9.6	18
ZZ50162		0.24	0.002	0.09	0.87	16.2	<0.2	<10	160	0.36	0.21	0.06	0.47	9.15	7.3	15
ZZ50163		0.19	0.004	0.09	0.55	19.4	<0.2	<10	300	0.40	0.20	0.25	1.96	12.95	9.7	12
ZZ50164		0.23	0.004	0.30	0.87	11.9	<0.2	<10	350	0.47	0.22	0.13	0.55	13.75	5.3	12
ZZ50165		0.24	0.003	0.22	0.95	12.7	<0.2	<10	350	0.40	0.22	0.64	0.51	16.25	7.6	17
ZZ50166		0.22	0.009	0.39	1.44	19.2	<0.2	<10	450	0.74	0.22	0.91	0.53	16.80	10.6	23
ZZ50167		0.22	0.011	0.49	1.23	15.9	<0.2	<10	540	0.75	0.21	1.26	0.59	15.50	10.2	19
ZZ50168		0.20	0.009	0.38	1.02	17.8	<0.2	<10	460	0.61	0.20	1.49	0.68	12.70	7.8	15
ZZ50169		0.25	0.005	0.33	0.60	12.2	<0.2	<10	260	0.48	0.23	0.08	0.55	13.25	9.5	10
ZZ50170		0.18	0.003	0.36	1.04	13.4	<0.2	<10	330	0.58	0.21	0.57	0.48	17.45	11.3	18
ZZ50171		0.22	0.006	0.62	1.28	15.1	<0.2	<10	420	0.62	0.22	0.84	0.63	17.55	10.0	21
ZZ50172		0.25	0.006	0.65	0.78	10.1	<0.2	<10	160	0.23	0.21	0.01	0.27	3.35	7.3	13
ZZ50173		0.17	0.010	1.17	0.93	10.1	<0.2	<10	710	0.49	0.17	0.93	0.84	15.50	5.0	14
ZZ50174		0.36	0.005	0.42	0.82	8.4	<0.2	<10	350	0.47	0.21	0.30	0.61	16.90	7.6	16
ZZ50175		0.26	0.009	0.76	0.80	9.4	<0.2	<10	540	0.50	0.20	0.43	1.04	13.30	8.5	14
ZZ50176		0.25	0.012	0.73	0.98	11.3	<0.2	<10	720	0.49	0.23	0.24	1.08	20.5	6.7	16
ZZ50177		0.18	0.012	3.20	1.18	9.2	<0.2	<10	510	0.35	0.19	0.15	0.97	19.70	4.4	17
ZZ50178		0.26	0.010	1.76	1.28	8.4	<0.2	<10	480	0.52	0.23	0.26	0.83	20.2	8.0	23
ZZ50179		0.23	0.008	0.46	1.12	12.4	<0.2	<10	430	0.54	0.25	0.17	0.62	20.0	10.6	21
ZZ50180		0.23	0.008	0.75	1.54	23.2	<0.2	<10	260	1.15	0.27	1.29	0.56	19.95	13.1	23
ZZ50181		0.25	0.004	0.23	1.60	17.9	<0.2	<10	310	0.98	0.27	0.47	0.21	10.45	14.3	26
ZZ50182		0.26	0.006	0.26	1.66	13.5	<0.2	<10	260	0.98	0.25	0.30	0.35	14.00	15.3	28
ZZ50183		0.29	0.013	0.32	1.40	10.5	<0.2	<10	300	0.72	0.26	0.25	0.39	11.55	13.0	23
ZZ50184		0.27	0.011	0.29	1.28	14.9	<0.2	<10	200	0.79	0.29	0.14	0.36	9.01	13.7	22
ZZ50185		0.29	0.016	0.12	1.59	15.9	<0.2	<10	250	0.93	0.31	0.21	0.55	11.30	21.1	25
ZZ50186		0.26	0.011	0.05	1.34	19.6	<0.2	<10	150	0.89	0.30	0.55	0.26	7.54	16.1	22
ZZ50187		0.23	0.015	0.07	1.06	25.9	<0.2	<10	170	0.92	0.30	0.28	0.22	15.20	13.9	19



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**CERTIFICATE OF ANALYSIS WH12186536**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50148		1.72	22.9	2.50	4.59	<0.05	0.04	0.07	0.029	0.06	7.9	9.6	0.17	206	1.89	0.01
ZZ50149		1.42	7.6	2.25	5.40	<0.05	<0.02	0.03	0.016	0.04	9.0	6.6	0.19	98	1.51	0.01
ZZ50150		1.13	40.9	3.63	3.63	<0.05	0.03	0.05	0.033	0.06	5.8	18.0	0.41	454	1.86	0.01
ZZ50151		1.61	41.9	3.85	4.07	0.06	0.05	0.07	0.032	0.08	6.6	24.6	0.50	458	1.93	0.01
ZZ50152		1.73	44.5	3.37	3.91	<0.05	0.07	0.13	0.034	0.09	7.3	17.7	0.42	449	1.93	0.01
ZZ50153		1.63	30.6	3.77	3.81	<0.05	0.08	0.11	0.036	0.07	5.1	19.8	0.40	358	2.46	0.01
ZZ50154		0.84	72.0	3.37	4.68	0.08	0.08	0.28	0.039	0.13	7.7	21.7	0.57	590	3.12	0.01
ZZ50155		0.83	27.6	2.68	1.97	<0.05	0.06	0.17	0.025	0.07	4.1	9.4	0.27	567	5.06	0.01
ZZ50156		1.06	54.9	2.85	3.20	0.05	0.08	0.80	0.027	0.08	6.9	13.6	0.43	627	3.94	0.01
ZZ50157		1.11	51.4	2.59	2.89	<0.05	0.08	0.24	0.028	0.07	6.8	12.6	0.42	388	4.49	0.01
ZZ50158		1.30	46.8	2.62	3.10	<0.05	0.06	0.30	0.028	0.08	6.0	14.4	0.42	246	4.33	0.01
ZZ50159		1.74	46.7	2.37	2.18	<0.05	0.06	0.25	0.028	0.08	4.5	8.2	0.29	289	7.35	0.01
ZZ50160		1.50	39.2	2.40	2.75	<0.05	0.06	0.27	0.029	0.07	5.3	12.2	0.37	287	4.42	0.01
ZZ50161		1.17	53.0	2.85	2.99	<0.05	0.05	0.16	0.025	0.07	6.6	14.7	0.34	348	4.36	0.01
ZZ50162		1.42	31.8	3.42	3.46	<0.05	0.02	0.04	0.029	0.06	4.1	9.2	0.14	290	3.74	0.01
ZZ50163		1.04	36.2	3.16	2.89	<0.05	0.02	0.06	0.024	0.06	5.9	5.1	0.10	257	4.24	0.01
ZZ50164		1.09	28.6	2.50	3.49	<0.05	0.02	0.06	0.027	0.07	6.2	7.3	0.10	160	3.95	0.01
ZZ50165		0.93	26.0	2.83	3.67	<0.05	0.04	0.06	0.024	0.06	7.6	12.0	0.33	288	3.22	0.01
ZZ50166		1.16	43.9	3.79	4.31	0.05	0.06	0.17	0.033	0.08	7.6	20.0	0.51	481	3.63	0.01
ZZ50167		1.10	48.6	2.89	3.72	<0.05	0.07	0.15	0.031	0.09	6.7	16.6	0.42	613	2.79	0.01
ZZ50168		0.98	38.8	3.25	3.10	<0.05	0.05	0.15	0.029	0.07	5.4	16.6	0.36	242	2.47	0.02
ZZ50169		1.09	39.2	2.71	2.12	<0.05	0.03	0.11	0.038	0.10	5.1	6.5	0.15	273	4.44	0.02
ZZ50170		0.81	31.9	2.99	3.47	<0.05	0.05	0.13	0.030	0.08	7.6	15.2	0.37	440	2.55	0.01
ZZ50171		1.24	39.8	2.91	3.97	<0.05	0.06	0.19	0.030	0.09	8.2	18.7	0.45	378	2.09	0.01
ZZ50172		1.88	56.2	2.23	3.88	<0.05	0.02	0.07	0.031	0.10	1.6	2.1	0.07	97	4.28	<0.01
ZZ50173		1.39	32.8	2.21	2.84	<0.05	0.06	0.36	0.029	0.08	6.6	10.4	0.28	228	2.01	0.01
ZZ50174		1.38	33.9	2.24	2.74	<0.05	0.05	0.16	0.031	0.10	7.4	13.8	0.25	191	2.51	0.01
ZZ50175		1.19	46.6	2.24	2.63	<0.05	0.05	0.22	0.033	0.10	5.4	8.5	0.17	267	2.98	0.01
ZZ50176		2.23	40.9	2.52	3.68	<0.05	0.03	0.19	0.030	0.09	8.6	5.8	0.14	160	3.42	0.01
ZZ50177		1.63	25.3	1.91	5.07	<0.05	0.02	0.13	0.022	0.07	8.8	5.6	0.12	115	2.18	0.01
ZZ50178		2.35	27.3	2.48	3.56	<0.05	0.03	0.31	0.030	0.10	8.9	13.6	0.31	316	2.55	0.01
ZZ50179		2.08	33.5	2.65	4.29	<0.05	0.03	0.09	0.031	0.08	8.8	17.3	0.29	587	2.81	0.01
ZZ50180		2.48	36.6	3.41	4.45	0.07	0.06	0.30	0.037	0.07	11.7	29.5	0.36	938	11.95	0.01
ZZ50181		2.00	29.0	3.76	5.03	<0.05	0.06	0.15	0.038	0.07	4.7	34.5	0.54	440	7.10	0.01
ZZ50182		1.89	24.5	3.75	5.30	0.06	0.07	0.13	0.039	0.07	5.9	41.6	0.53	326	3.20	<0.01
ZZ50183		2.07	19.7	3.00	4.68	<0.05	0.05	0.17	0.032	0.08	4.6	28.8	0.41	363	1.92	<0.01
ZZ50184		1.92	29.3	3.23	4.53	<0.05	0.05	0.10	0.036	0.07	4.1	22.9	0.40	423	2.38	<0.01
ZZ50185		2.12	28.7	3.56	5.28	<0.05	0.05	0.10	0.038	0.07	4.7	29.2	0.40	789	2.62	<0.01
ZZ50186		1.62	29.9	4.00	4.78	0.05	0.05	0.06	0.042	0.07	3.1	28.3	0.43	395	3.13	0.01
ZZ50187		1.30	42.3	3.78	3.76	<0.05	0.02	0.09	0.045	0.06	6.6	21.1	0.33	224	1.93	<0.01



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50148		0.56	18.3	960	14.5	12.1	<0.001	0.06	0.47	3.5	0.5	0.6	24.4	<0.01	0.06	1.3
ZZ50149		0.87	8.1	310	11.9	9.4	<0.001	0.02	0.50	1.6	0.2	0.6	7.6	<0.01	0.04	1.2
ZZ50150		0.22	34.0	730	19.3	7.3	0.001	0.01	0.97	4.2	0.8	0.5	15.4	<0.01	0.07	3.4
ZZ50151		0.16	42.6	950	19.2	7.5	0.001	0.02	0.76	5.4	0.9	0.7	21.2	<0.01	0.06	4.1
ZZ50152		0.46	39.2	770	15.1	10.9	0.001	0.06	0.93	5.6	1.3	0.6	43.2	0.01	0.08	2.0
ZZ50153		0.24	35.0	670	14.4	10.4	0.001	0.03	0.65	5.5	1.0	0.6	27.2	<0.01	0.08	2.5
ZZ50154		0.32	44.1	1050	12.8	9.3	0.002	0.09	0.99	3.8	2.9	0.6	70.3	0.01	0.10	0.7
ZZ50155		0.16	26.9	600	12.7	6.0	0.005	0.07	1.08	3.3	1.9	0.3	55.3	<0.01	0.08	1.4
ZZ50156		0.33	42.2	770	12.9	8.7	0.015	0.14	1.49	4.4	4.9	0.4	71.3	0.01	0.07	1.3
ZZ50157		0.31	39.8	860	11.7	8.2	0.006	0.11	1.61	4.1	3.1	0.3	87.2	0.01	0.07	1.2
ZZ50158		0.33	35.7	770	12.9	8.6	0.004	0.07	1.49	4.5	2.4	0.4	63.1	<0.01	0.07	1.8
ZZ50159		0.25	39.0	810	13.0	10.5	0.003	0.12	2.39	3.5	2.8	0.5	77.0	<0.01	0.07	1.4
ZZ50160		0.34	26.8	680	14.7	9.6	0.003	0.10	1.39	3.9	3.0	0.4	69.4	<0.01	0.07	1.8
ZZ50161		0.43	42.6	650	17.1	8.3	0.001	0.06	1.61	4.1	1.9	0.4	60.4	<0.01	0.07	2.4
ZZ50162		0.26	27.4	650	14.4	10.6	<0.001	0.02	1.29	2.6	0.8	0.7	11.9	<0.01	0.06	1.4
ZZ50163		0.34	39.1	770	20.9	8.7	<0.001	0.03	2.07	2.7	1.8	0.5	31.4	<0.01	0.05	1.8
ZZ50164		0.37	22.7	340	12.7	12.5	<0.001	0.03	1.19	2.6	0.8	0.6	20.3	<0.01	0.06	1.8
ZZ50165		0.70	22.7	420	13.9	9.2	0.001	0.03	0.99	3.1	1.2	0.5	37.9	<0.01	0.05	2.7
ZZ50166		0.37	29.8	830	17.0	10.2	0.001	0.06	1.13	4.8	2.0	0.5	50.9	<0.01	0.07	2.8
ZZ50167		0.38	36.9	800	13.0	9.9	0.001	0.07	1.08	4.7	1.8	0.5	66.4	<0.01	0.07	1.9
ZZ50168		0.34	26.3	750	14.4	8.8	0.002	0.15	1.07	3.0	4.2	0.4	90.9	<0.01	0.05	1.2
ZZ50169		0.16	31.0	550	16.5	7.5	<0.001	0.13	1.82	3.0	1.2	0.4	45.2	<0.01	0.07	2.6
ZZ50170		0.39	25.9	850	14.3	8.5	0.001	0.03	1.08	4.0	1.4	0.4	32.5	<0.01	0.06	3.0
ZZ50171		0.39	31.0	720	14.0	8.7	0.001	0.05	1.04	4.6	1.2	0.4	40.6	<0.01	0.06	2.5
ZZ50172		0.19	34.9	570	12.0	12.2	0.001	0.02	2.62	2.2	1.9	0.7	4.0	<0.01	0.08	0.7
ZZ50173		0.36	32.6	1080	12.5	11.4	0.002	0.11	1.19	3.3	3.5	0.4	53.6	<0.01	0.05	1.3
ZZ50174		0.37	29.3	680	12.1	9.9	0.001	0.02	1.47	3.4	1.8	0.4	23.1	<0.01	0.07	3.5
ZZ50175		0.27	37.0	960	12.0	11.2	0.001	0.05	1.72	3.5	3.0	0.6	32.0	<0.01	0.07	1.9
ZZ50176		0.33	41.4	1050	14.7	10.8	<0.001	0.04	2.46	2.4	1.9	0.7	21.3	<0.01	0.07	0.8
ZZ50177		0.51	22.5	790	12.1	8.9	<0.001	0.04	1.23	1.9	1.0	0.7	13.3	<0.01	0.05	0.7
ZZ50178		0.48	28.6	1280	14.1	13.0	<0.001	0.04	1.47	3.2	1.5	0.6	21.8	<0.01	0.05	1.7
ZZ50179		0.56	31.3	800	17.1	11.9	<0.001	0.03	1.63	2.8	1.1	0.7	17.1	<0.01	0.05	1.7
ZZ50180		0.39	42.1	1230	18.3	11.3	0.001	0.06	1.14	5.1	2.4	0.8	40.9	<0.01	0.06	2.1
ZZ50181		0.16	43.1	1140	17.9	10.4	0.001	0.04	0.62	5.5	1.7	0.8	23.5	<0.01	0.04	3.7
ZZ50182		0.23	42.4	810	15.6	11.9	0.001	0.03	0.73	5.3	2.2	0.7	24.8	<0.01	0.04	3.5
ZZ50183		0.16	34.2	710	14.2	12.8	0.001	0.03	0.51	4.6	2.1	0.7	25.5	<0.01	0.03	3.1
ZZ50184		0.19	37.9	740	14.8	12.4	0.001	0.02	0.74	3.9	1.7	0.8	15.9	<0.01	0.04	2.2
ZZ50185		0.17	42.4	760	18.7	13.8	0.001	0.03	0.71	4.9	1.7	0.7	18.1	<0.01	0.05	2.3
ZZ50186		0.19	41.5	800	19.3	9.1	0.001	0.03	0.71	4.1	1.0	0.7	20.8	<0.01	0.07	2.5
ZZ50187		0.17	41.5	720	19.6	7.0	0.001	0.01	0.73	5.0	1.5	0.6	17.6	<0.01	0.06	3.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50148		0.008	0.15	0.99	44	0.21	8.22	61	0.7
ZZ50149		0.024	0.15	0.52	50	0.26	2.21	34	<0.5
ZZ50150		0.006	0.12	0.64	32	0.05	7.34	136	0.9
ZZ50151		0.006	0.13	0.61	31	0.05	11.80	128	1.4
ZZ50152		0.006	0.19	1.54	39	0.13	13.75	123	1.5
ZZ50153		<0.005	0.15	1.13	36	0.07	10.20	128	2.1
ZZ50154		<0.005	0.17	3.76	48	0.11	17.90	131	2.2
ZZ50155		<0.005	0.27	0.85	40	0.06	8.20	97	1.6
ZZ50156		0.005	0.30	2.55	46	0.08	13.70	110	2.0
ZZ50157		0.005	0.27	1.60	45	0.08	14.65	114	2.0
ZZ50158		0.005	0.27	1.77	49	0.08	10.55	112	1.6
ZZ50159		<0.005	0.53	1.85	50	0.06	10.70	135	1.5
ZZ50160		<0.005	0.32	1.81	53	0.07	9.39	100	1.4
ZZ50161		0.009	0.22	1.49	51	0.11	10.95	137	1.6
ZZ50162		<0.005	0.20	0.52	60	0.06	3.32	173	<0.5
ZZ50163		0.008	0.19	1.26	47	0.08	6.18	228	<0.5
ZZ50164		0.006	0.27	0.73	58	0.09	5.88	116	<0.5
ZZ50165		0.014	0.19	0.91	56	0.15	4.86	97	1.0
ZZ50166		0.005	0.21	1.74	56	0.09	9.58	120	1.5
ZZ50167		0.005	0.20	1.64	45	0.09	11.20	130	1.6
ZZ50168		0.005	0.17	2.43	42	0.07	7.54	105	1.1
ZZ50169		<0.005	0.38	0.68	30	0.05	5.60	179	0.7
ZZ50170		0.007	0.14	0.95	44	0.10	8.72	119	1.0
ZZ50171		0.008	0.23	1.07	45	0.10	9.33	110	1.4
ZZ50172		<0.005	0.36	0.42	79	0.05	1.87	250	0.5
ZZ50173		0.005	0.40	1.27	44	0.07	12.80	82	1.3
ZZ50174		0.009	0.25	0.94	41	0.09	9.23	146	1.2
ZZ50175		<0.005	0.31	0.97	45	0.08	10.40	172	1.2
ZZ50176		0.008	0.44	1.03	58	0.14	13.10	211	<0.5
ZZ50177		0.012	0.26	0.84	59	0.16	9.44	102	<0.5
ZZ50178		0.012	0.34	1.32	50	0.14	10.20	132	0.5
ZZ50179		0.013	0.27	0.91	51	0.21	8.19	150	0.5
ZZ50180		0.009	0.47	2.82	39	0.20	25.4	111	1.6
ZZ50181		<0.005	0.33	1.61	31	<0.05	13.00	107	1.7
ZZ50182		0.005	0.23	0.86	35	0.07	10.70	109	2.0
ZZ50183		<0.005	0.22	0.68	31	0.05	8.47	92	1.3
ZZ50184		0.005	0.15	0.64	32	0.08	6.59	138	1.0
ZZ50185		<0.005	0.24	0.79	39	0.18	8.14	133	1.3
ZZ50186		<0.005	0.16	0.55	31	0.05	6.18	124	1.4
ZZ50187		0.005	0.12	0.69	30	0.06	10.15	121	1.0



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**CERTIFICATE OF ANALYSIS WH12186536**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50188		0.28	0.003	0.10	1.46	43.1	<0.2	<10	190	0.98	0.30	0.49	0.39	19.20	17.0	24
ZZ50189		0.22	0.019	0.65	1.54	17.7	<0.2	<10	570	1.18	0.26	0.89	1.05	12.70	12.3	22
ZZ50190		0.23	0.018	0.39	1.41	40.0	<0.2	<10	450	0.86	0.22	1.79	1.66	22.8	12.1	28
ZZ50191		0.17	0.006	0.19	2.38	50.4	<0.2	<10	380	1.24	0.28	0.75	0.80	28.6	16.0	34
ZZ50192		0.26	0.007	0.20	1.83	207	<0.2	<10	240	0.87	0.25	0.17	0.43	33.1	16.2	31
ZZ50193		0.16	0.006	0.39	2.68	688	<0.2	<10	240	1.32	0.18	1.06	1.47	37.7	23.6	48
ZZ50194		0.25	0.007	0.27	1.85	576	<0.2	<10	210	0.63	0.27	0.17	0.22	30.0	8.7	30
ZZ50195		0.23	0.014	0.12	1.04	328	<0.2	<10	450	0.36	0.27	0.17	0.08	27.9	2.8	20
ZZ50196		0.21	0.014	0.32	1.98	945	<0.2	<10	600	0.92	0.28	0.19	0.51	19.60	12.7	36
ZZ50197		0.25	0.006	0.11	2.22	76.0	<0.2	<10	230	0.93	0.25	0.12	0.43	31.0	16.9	30
ZZ50198		0.21	0.017	0.14	1.64	214	<0.2	<10	100	0.52	0.25	0.05	0.40	20.8	12.7	32
ZZ50199		0.22	0.015	0.28	1.77	819	<0.2	<10	740	0.56	0.29	0.44	0.38	21.4	9.0	33
ZZ50200		0.27	0.017	0.30	2.20	48.8	<0.2	<10	450	0.99	0.28	0.39	0.40	31.2	12.6	35
ZZ36501		0.24	0.007	0.05	1.16	13.6	<0.2	<10	90	0.34	0.29	0.04	0.15	18.70	4.5	20
ZZ36502		0.39	0.015	0.21	0.90	11.6	<0.2	<10	130	0.91	0.28	0.39	0.12	10.25	10.7	17
ZZ36503		0.27	0.012	0.40	1.15	11.5	<0.2	<10	290	0.91	0.20	1.45	0.73	7.15	9.0	16
ZZ36504		0.36	0.014	0.18	1.11	16.7	<0.2	<10	240	0.95	0.25	0.29	0.66	16.80	13.2	20
ZZ36505		0.21	0.012	1.04	1.52	12.1	<0.2	<10	660	1.09	0.23	0.84	0.34	7.55	7.0	19
ZZ36506		0.30	0.009	0.40	1.34	16.9	<0.2	<10	510	0.95	0.25	0.45	0.47	14.15	10.4	21
ZZ36507		0.31	0.012	0.50	0.60	16.3	<0.2	<10	420	0.74	0.21	0.62	0.83	7.99	8.1	14
ZZ36508		0.29	0.014	0.28	1.15	14.7	<0.2	<10	190	0.76	0.18	2.76	0.85	14.20	9.7	22
ZZ36509		0.29	0.011	0.26	1.38	21.2	<0.2	<10	330	0.72	0.19	2.56	0.34	15.70	13.9	21
ZZ36510		0.37	0.010	0.28	1.50	19.8	<0.2	<10	450	1.07	0.26	1.01	0.91	16.35	15.7	26
ZZ36511		0.27	0.005	0.28	1.12	13.1	<0.2	<10	390	0.88	0.24	0.67	0.84	14.05	12.8	20
ZZ36512		0.32	0.014	0.39	1.29	17.1	<0.2	<10	380	1.09	0.29	0.68	0.57	15.35	10.6	23
ZZ36513		0.35	0.016	0.19	1.05	13.1	<0.2	<10	180	0.80	0.25	0.28	0.20	11.70	8.9	17
ZZ36514		0.32	0.016	0.14	1.19	9.7	<0.2	<10	530	0.55	0.25	0.27	0.27	15.50	7.5	16
ZZ36515		0.29	0.015	0.59	1.26	15.6	<0.2	<10	640	0.96	0.22	1.63	1.91	14.30	10.3	18
ZZ36516		0.36	0.017	0.30	1.11	14.7	<0.2	<10	340	0.88	0.25	0.74	0.88	14.25	12.5	19
ZZ36517		0.28	0.015	0.70	1.21	14.8	<0.2	<10	650	1.24	0.28	0.57	0.95	14.45	12.8	20
ZZ36518		0.35	0.010	0.31	0.76	16.7	<0.2	<10	240	0.85	0.26	0.31	0.79	12.40	11.7	14
ZZ36519		0.28	0.014	0.55	1.24	13.9	<0.2	<10	410	0.93	0.24	0.37	0.68	15.05	15.9	19
ZZ36520		0.29	0.012	0.38	0.76	12.4	<0.2	<10	240	0.69	0.23	0.27	0.44	10.10	8.9	13
ZZ36521		0.33	0.023	0.55	0.76	11.6	<0.2	<10	440	0.89	0.24	0.45	1.00	10.35	9.6	14
ZZ36522		0.29	0.010	0.22	0.76	15.5	<0.2	<10	160	0.55	0.26	0.05	0.46	6.35	5.5	11
ZZ36523		0.30	0.004	0.24	0.46	9.4	<0.2	<10	150	0.19	0.14	0.11	0.15	8.15	2.0	5
ZZ36524		0.25	0.014	0.80	0.64	15.3	<0.2	<10	560	0.67	0.23	0.18	0.52	10.40	6.6	11
ZZ36525		0.25	0.014	0.31	0.81	15.2	<0.2	<10	120	0.32	0.20	0.03	0.23	12.70	5.7	13
ZZ36526		0.27	0.008	0.46	0.69	15.5	<0.2	<10	380	0.68	0.21	0.26	0.44	12.30	7.7	13
ZZ36527		0.36	0.010	0.30	0.59	13.8	<0.2	<10	100	0.21	0.26	0.03	0.18	12.15	5.3	11



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ50188		2.38	33.4	4.13	3.97	0.05	0.04	0.17	0.046	0.06	8.9	16.4	0.27	447	1.90	0.01
ZZ50189		3.75	42.1	3.90	4.16	0.06	0.06	0.36	0.043	0.09	5.2	22.9	0.33	916	2.10	0.01
ZZ50190		1.03	34.0	2.72	4.32	0.06	0.05	0.58	0.030	0.06	19.6	18.3	0.43	658	1.13	0.01
ZZ50191		2.25	22.6	3.82	5.79	0.05	0.06	0.45	0.044	0.06	13.4	29.0	0.42	436	1.53	<0.01
ZZ50192		1.55	35.4	3.83	5.36	0.06	0.07	0.24	0.037	0.05	15.4	21.1	0.57	876	1.59	<0.01
ZZ50193		2.75	16.8	4.28	4.23	0.08	0.08	0.26	0.036	0.03	26.2	14.3	0.18	707	5.08	<0.01
ZZ50194		2.01	16.1	2.90	6.59	<0.05	0.06	0.14	0.028	0.05	15.6	16.7	0.42	255	1.35	<0.01
ZZ50195		3.22	16.5	1.52	5.57	<0.05	<0.02	0.44	0.022	0.03	15.6	6.1	0.13	88	1.10	<0.01
ZZ50196		3.01	32.7	4.47	6.37	<0.05	0.06	0.50	0.050	0.06	8.9	26.0	0.35	624	2.36	<0.01
ZZ50197		1.62	35.9	3.78	6.00	0.05	0.07	0.10	0.036	0.07	15.0	27.9	0.62	473	1.57	<0.01
ZZ50198		1.77	28.0	4.26	5.12	<0.05	0.07	0.21	0.043	0.05	8.7	20.4	0.37	533	4.32	<0.01
ZZ50199		2.93	28.0	2.80	6.55	<0.05	0.05	0.62	0.035	0.06	11.9	17.6	0.43	398	1.36	<0.01
ZZ50200		2.27	49.3	3.80	6.14	0.06	0.06	0.14	0.043	0.08	14.0	24.3	0.56	376	1.40	<0.01
ZZ36501		1.26	12.2	2.99	6.26	<0.05	<0.02	0.05	0.021	0.04	9.0	7.7	0.19	144	2.06	<0.01
ZZ36502		2.64	29.9	3.57	3.25	<0.05	0.02	0.08	0.035	0.08	4.4	20.1	0.25	190	1.42	0.01
ZZ36503		1.88	29.9	2.92	3.30	<0.05	0.06	0.12	0.035	0.09	3.4	13.2	0.31	627	1.85	0.01
ZZ36504		1.43	38.3	3.15	3.99	0.06	0.05	0.10	0.037	0.07	7.8	20.5	0.39	462	2.07	<0.01
ZZ36505		1.24	42.6	2.63	4.30	<0.05	0.06	0.24	0.039	0.10	4.2	10.3	0.21	155	1.84	<0.01
ZZ36506		1.26	28.3	3.23	4.10	<0.05	0.06	0.19	0.042	0.07	6.6	16.9	0.31	349	3.48	<0.01
ZZ36507		0.88	34.1	2.31	1.81	<0.05	0.06	0.14	0.034	0.04	4.3	5.6	0.12	185	6.23	<0.01
ZZ36508		0.61	30.3	2.30	3.43	<0.05	0.04	0.14	0.026	0.05	9.2	13.3	0.31	381	1.50	0.01
ZZ36509		0.89	57.6	3.09	4.21	<0.05	0.07	0.21	0.023	0.08	7.7	22.5	0.59	430	1.52	0.01
ZZ36510		1.05	52.2	2.11	4.95	0.05	0.08	0.26	0.041	0.07	7.4	31.2	0.53	180	0.61	0.01
ZZ36511		1.09	33.2	2.96	3.73	<0.05	0.07	0.12	0.031	0.07	6.2	18.5	0.38	267	2.94	<0.01
ZZ36512		1.37	34.6	3.26	4.38	<0.05	0.08	0.13	0.042	0.07	7.3	20.8	0.36	323	3.99	<0.01
ZZ36513		2.02	32.3	3.17	3.78	<0.05	0.02	0.11	0.034	0.08	4.7	9.8	0.19	208	2.02	0.01
ZZ36514		1.92	22.2	2.59	4.52	<0.05	0.02	0.05	0.029	0.06	7.0	14.8	0.19	232	1.68	<0.01
ZZ36515		1.24	43.0	2.53	3.52	<0.05	0.06	0.21	0.031	0.08	7.0	14.8	0.31	1640	2.17	0.01
ZZ36516		1.13	43.7	2.92	3.38	<0.05	0.07	0.14	0.041	0.08	6.3	15.7	0.34	566	2.41	0.01
ZZ36517		1.73	52.3	3.85	3.35	0.05	0.06	0.20	0.052	0.09	6.9	15.8	0.27	543	3.39	0.01
ZZ36518		1.30	45.2	3.22	2.30	<0.05	0.04	0.09	0.042	0.07	6.0	11.6	0.23	281	3.11	<0.01
ZZ36519		1.38	39.6	3.21	3.66	<0.05	0.08	0.18	0.039	0.08	6.7	18.6	0.32	734	2.85	0.01
ZZ36520		1.31	35.2	2.67	2.56	<0.05	0.05	0.13	0.037	0.06	4.8	12.0	0.21	228	4.18	<0.01
ZZ36521		2.21	49.1	2.43	2.45	<0.05	0.02	0.16	0.043	0.08	4.3	12.4	0.24	300	4.43	<0.01
ZZ36522		0.89	41.3	2.63	2.28	<0.05	0.02	0.04	0.036	0.06	3.1	5.2	0.10	116	5.97	<0.01
ZZ36523		1.11	15.5	0.84	2.47	<0.05	<0.02	0.03	0.013	0.04	4.0	1.1	0.06	26	5.07	<0.01
ZZ36524		1.44	37.1	2.09	2.18	<0.05	0.02	0.23	0.037	0.08	4.9	7.3	0.13	181	7.48	<0.01
ZZ36525		0.96	18.7	2.35	3.65	<0.05	<0.02	0.05	0.023	0.05	6.2	6.6	0.13	160	4.36	<0.01
ZZ36526		1.30	30.1	2.20	2.37	<0.05	0.04	0.17	0.031	0.06	5.9	9.9	0.22	212	6.21	<0.01
ZZ36527		1.55	22.1	1.81	3.97	<0.05	<0.02	0.03	0.025	0.04	6.1	2.8	0.04	111	4.18	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ50188		0.34	47.5	1000	21.1	11.0	0.002	0.04	0.65	4.4	1.5	0.7	27.9	<0.01	0.09	3.4
ZZ50189		0.14	41.5	890	16.2	16.2	0.007	0.11	0.77	6.5	5.4	0.8	57.5	<0.01	0.05	2.4
ZZ50190		0.43	37.5	1160	13.7	8.3	0.001	0.06	0.70	3.7	1.9	0.6	42.5	<0.01	0.05	1.3
ZZ50191		0.84	32.2	710	18.6	12.6	0.001	0.03	0.61	5.3	1.1	0.8	24.8	<0.01	0.07	3.6
ZZ50192		0.55	38.7	950	18.0	9.3	<0.001	0.02	0.83	4.4	1.1	0.5	34.1	<0.01	0.07	3.2
ZZ50193		0.73	117.0	1440	12.6	9.5	0.001	0.05	0.69	12.4	1.7	0.5	37.9	0.02	0.05	2.9
ZZ50194		1.01	22.1	600	14.2	9.0	<0.001	0.01	0.60	3.6	1.0	0.7	16.2	<0.01	0.03	3.8
ZZ50195		0.50	8.8	180	12.7	9.5	<0.001	0.01	0.44	2.6	0.8	0.9	16.3	<0.01	0.04	2.9
ZZ50196		0.48	36.2	810	22.1	13.2	0.001	0.03	0.86	4.8	1.4	0.8	22.0	<0.01	0.07	2.4
ZZ50197		0.52	38.4	470	16.6	10.2	0.001	0.01	0.65	4.8	0.8	0.6	15.4	<0.01	0.06	4.2
ZZ50198		0.80	42.7	510	25.5	10.5	0.001	0.02	0.77	3.4	1.3	0.6	10.5	0.01	0.05	3.8
ZZ50199		0.58	22.3	1320	14.2	13.1	0.001	0.06	0.53	4.0	0.7	0.8	28.7	<0.01	0.03	1.6
ZZ50200		0.56	32.8	670	16.8	11.8	<0.001	0.03	0.65	6.2	1.1	0.7	25.8	<0.01	0.06	2.6
ZZ36501		0.83	12.9	350	14.2	8.8	0.001	0.02	0.75	1.7	0.7	0.8	7.3	<0.01	0.04	1.3
ZZ36502		0.08	39.8	550	16.8	11.6	0.001	0.02	0.54	6.2	0.7	0.7	22.6	<0.01	0.03	2.0
ZZ36503		0.17	34.0	680	12.3	11.5	0.001	0.11	0.80	4.3	1.2	0.7	52.9	<0.01	0.05	1.7
ZZ36504		0.20	39.0	730	14.1	8.5	0.001	0.02	0.94	5.3	1.6	0.6	24.8	<0.01	0.05	3.3
ZZ36505		0.21	29.9	1140	12.3	11.9	0.001	0.13	0.69	4.4	1.7	1.0	49.3	<0.01	0.05	1.0
ZZ36506		0.25	27.8	930	14.7	11.1	0.004	0.05	0.69	4.8	3.2	0.6	32.2	<0.01	0.06	1.9
ZZ36507		0.08	35.0	990	14.3	5.3	0.007	0.05	2.06	3.7	2.7	0.5	52.0	<0.01	0.06	1.3
ZZ36508		0.33	31.7	960	10.7	6.5	0.001	0.09	0.68	2.3	1.7	0.5	30.3	<0.01	0.05	0.5
ZZ36509		0.14	33.1	620	13.9	5.5	0.001	0.08	0.66	3.6	1.4	0.5	45.0	<0.01	0.03	0.8
ZZ36510		0.23	42.9	580	17.8	8.8	0.006	0.12	0.40	7.3	4.7	0.6	45.2	<0.01	0.04	3.1
ZZ36511		0.18	36.9	820	15.9	7.8	0.007	0.07	0.90	4.8	2.1	0.8	34.4	<0.01	0.05	2.4
ZZ36512		0.21	33.0	850	17.4	9.9	0.004	0.05	0.93	5.4	2.3	0.6	37.2	<0.01	0.04	2.3
ZZ36513		0.12	30.9	820	14.6	12.9	0.001	0.04	0.58	4.8	0.8	0.7	19.1	<0.01	0.04	1.8
ZZ36514		0.24	21.4	410	13.4	13.4	<0.001	0.02	0.54	3.0	1.1	0.7	15.2	<0.01	0.07	1.8
ZZ36515		0.26	40.1	910	11.9	10.4	0.010	0.11	0.79	4.4	2.4	0.6	68.4	<0.01	0.06	1.7
ZZ36516		0.27	37.9	750	13.9	8.1	0.001	0.05	1.03	5.4	2.1	0.5	40.4	<0.01	0.06	2.1
ZZ36517		0.28	43.9	900	19.5	10.6	0.001	0.05	1.18	8.1	1.9	0.6	45.5	<0.01	0.07	1.9
ZZ36518		0.18	39.3	790	16.5	7.0	0.001	0.02	1.15	5.1	1.6	0.4	33.3	<0.01	0.05	3.0
ZZ36519		0.26	34.9	790	15.9	10.0	0.002	0.03	1.11	5.1	3.5	0.5	30.7	<0.01	0.05	2.9
ZZ36520		0.24	28.3	450	14.4	7.3	0.002	0.02	1.36	3.7	2.0	0.5	26.2	<0.01	0.07	2.5
ZZ36521		0.16	41.2	690	16.3	9.4	0.001	0.03	2.38	4.0	2.6	0.5	35.2	<0.01	0.08	2.3
ZZ36522		0.21	27.7	510	16.1	9.0	0.001	0.03	1.66	2.3	1.8	0.5	13.0	<0.01	0.08	1.7
ZZ36523		0.16	9.7	200	7.4	9.0	<0.001	0.01	0.92	1.1	1.1	0.5	12.0	<0.01	0.06	0.7
ZZ36524		0.20	28.9	460	14.4	8.5	0.004	0.04	1.78	3.3	1.8	0.5	26.4	<0.01	0.10	1.5
ZZ36525		0.48	18.4	350	13.5	11.2	0.001	0.02	0.95	1.8	0.8	0.5	11.6	<0.01	0.05	1.1
ZZ36526		0.28	28.8	450	12.5	7.5	0.003	0.02	1.44	3.3	2.2	0.5	32.4	<0.01	0.11	1.8
ZZ36527		0.43	18.7	340	12.5	11.1	0.001	0.01	1.15	1.6	1.1	0.6	10.8	<0.01	0.07	1.0

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50188		0.007	0.20	0.98	37	0.11	12.15	126	1.2
ZZ50189		<0.005	0.29	1.70	39	0.05	16.60	124	1.6
ZZ50190		0.013	0.14	1.00	40	0.15	32.8	117	1.4
ZZ50191		0.011	0.22	1.29	55	0.26	14.95	111	1.8
ZZ50192		0.016	0.22	1.05	51	0.21	10.55	105	2.1
ZZ50193		0.014	0.25	2.55	58	0.43	39.7	372	2.2
ZZ50194		0.031	0.21	1.08	59	0.35	5.95	69	1.3
ZZ50195		0.016	0.32	0.80	43	0.27	6.50	29	<0.5
ZZ50196		0.007	0.43	1.09	73	0.21	11.15	126	1.9
ZZ50197		0.013	0.20	0.67	55	0.19	6.74	92	2.5
ZZ50198		0.015	0.21	0.78	55	0.24	3.71	140	2.4
ZZ50199		0.015	0.61	1.44	59	0.30	7.96	91	1.2
ZZ50200		0.012	0.22	1.05	59	0.29	9.91	101	1.6
ZZ36501		0.026	0.15	0.56	59	0.27	2.55	50	<0.5
ZZ36502		<0.005	0.14	0.50	28	<0.05	11.30	103	<0.5
ZZ36503		<0.005	0.18	0.50	30	0.05	7.28	97	1.8
ZZ36504		0.006	0.14	0.71	32	0.06	10.40	132	1.7
ZZ36505		<0.005	0.23	1.48	39	0.06	8.52	79	1.5
ZZ36506		<0.005	0.19	1.52	43	0.07	10.35	119	1.8
ZZ36507		<0.005	0.38	2.38	62	0.08	10.30	187	1.9
ZZ36508		0.007	0.11	3.05	34	0.09	21.4	84	1.2
ZZ36509		<0.005	0.10	2.27	35	0.05	11.20	84	2.1
ZZ36510		<0.005	0.15	1.34	40	0.05	12.90	129	2.8
ZZ36511		<0.005	0.16	1.65	41	0.05	10.05	140	2.0
ZZ36512		<0.005	0.18	1.66	47	0.09	13.10	132	2.1
ZZ36513		<0.005	0.24	0.65	30	0.05	8.66	88	0.6
ZZ36514		0.007	0.17	0.60	39	0.07	5.39	79	0.5
ZZ36515		<0.005	0.18	2.22	33	0.11	14.50	137	1.8
ZZ36516		<0.005	0.18	1.82	34	0.06	11.20	131	2.2
ZZ36517		<0.005	0.33	2.37	40	0.07	16.35	147	2.4
ZZ36518		<0.005	0.17	1.17	27	<0.05	10.25	145	1.3
ZZ36519		<0.005	0.20	1.46	38	0.06	9.88	115	2.1
ZZ36520		<0.005	0.20	1.15	32	0.06	7.26	125	1.4
ZZ36521		<0.005	0.31	1.13	38	<0.05	10.00	194	0.9
ZZ36522		<0.005	0.39	0.62	40	0.05	4.24	165	0.7
ZZ36523		<0.005	0.23	0.32	39	0.07	2.47	58	<0.5
ZZ36524		<0.005	0.39	0.91	41	<0.08	8.72	107	0.6
ZZ36525		0.008	0.23	0.49	44	0.14	2.85	67	<0.5
ZZ36526		0.005	0.29	1.00	37	0.09	7.26	87	1.2
ZZ36527		0.007	0.20	0.50	50	0.15	2.25	79	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36528		0.29	0.004	0.30	1.05	17.4	<0.2	<10	390	0.48	0.25	0.24	0.38	18.80	8.9	18
ZZ36529		0.26	0.014	0.12	0.77	17.5	<0.2	<10	150	0.60	0.24	0.02	0.48	7.46	9.4	13
ZZ36530		0.29	0.016	0.31	0.58	9.7	<0.2	<10	140	0.35	0.20	0.02	0.60	5.10	6.4	9
ZZ36531		0.23	0.020	1.36	0.59	7.6	<0.2	<10	550	0.57	0.19	0.81	2.92	9.14	5.2	9
ZZ36532		0.33	0.019	1.51	0.51	22.2	<0.2	<10	460	0.73	0.27	0.97	7.01	4.99	8.3	28
ZZ36533		0.32	0.020	2.72	0.56	25.6	<0.2	<10	880	0.72	0.22	1.11	7.84	6.10	11.0	17
ZZ36534		0.26	0.017	1.64	1.23	20.9	<0.2	<10	430	1.61	0.18	7.92	26.4	10.05	28.8	35
ZZ36535		0.29	0.007	0.99	1.05	36.3	<0.2	<10	420	1.46	0.31	0.82	5.58	8.18	18.7	87
ZZ36536		0.29	0.016	0.31	0.49	9.9	<0.2	<10	150	0.70	0.21	0.75	0.18	8.56	5.3	11
ZZ36537		0.27	0.014	0.71	0.38	8.0	<0.2	<10	130	0.73	0.20	1.43	0.45	12.25	12.0	15
ZZ36538		0.28	0.019	1.13	0.49	16.2	<0.2	<10	440	0.99	0.22	0.69	4.67	16.30	16.6	24
ZZ36539		0.39	0.018	0.60	0.66	11.7	<0.2	<10	260	1.04	0.25	0.76	0.68	10.60	11.9	17
ZZ36540		0.26	0.012	0.10	1.06	12.7	<0.2	<10	240	0.84	0.41	0.04	0.13	10.65	9.3	20
ZZ36541		0.34	0.012	0.11	0.98	12.0	<0.2	<10	460	1.35	0.34	0.25	0.16	11.70	15.8	22
ZZ36542		0.29	0.012	0.06	0.76	8.1	<0.2	<10	150	0.86	0.33	0.05	0.13	7.81	12.0	20
ZZ36543		0.22	0.014	0.25	1.11	8.8	<0.2	<10	420	1.40	0.22	2.39	0.30	8.67	8.4	18
ZZ36544		0.34	0.014	0.09	0.94	6.7	<0.2	<10	100	0.73	0.39	0.06	0.04	7.72	16.7	27
ZZ36545		0.32	0.006	0.05	0.79	11.1	<0.2	<10	120	0.39	0.34	0.40	0.12	7.68	11.4	19
ZZ36546		0.28	0.009	0.06	1.47	18.6	<0.2	<10	170	1.55	0.28	0.18	0.22	14.20	11.7	22
ZZ36547		0.30	0.004	0.08	1.05	6.7	<0.2	<10	80	0.53	0.32	0.02	0.18	9.52	7.0	21
ZZ36548		0.25	0.013	0.28	1.34	13.9	<0.2	<10	480	1.43	0.26	1.03	0.30	12.00	10.0	21
ZZ36549		0.25	0.012	0.31	1.07	11.0	<0.2	<10	470	0.88	0.19	1.81	0.78	10.20	7.5	17
ZZ36550		0.26	0.011	0.04	1.64	25.8	<0.2	<10	120	0.60	0.27	0.02	0.33	22.0	12.3	27
ZZ36551		0.28	0.006	0.09	0.44	11.8	<0.2	<10	60	0.09	0.10	0.02	0.08	11.55	2.8	7
ZZ36552		0.23	0.017	0.18	1.19	14.9	<0.2	<10	340	0.61	0.20	0.19	0.41	16.60	9.0	19
ZZ36553		0.26	0.003	0.51	1.29	17.6	<0.2	<10	480	0.99	0.24	0.61	0.68	16.35	13.8	21
ZZ36554		0.24	0.013	0.05	0.77	6.2	<0.2	<10	90	0.53	0.14	0.09	0.17	14.45	10.5	14
ZZ36555		0.22	0.013	0.99	1.11	11.8	<0.2	<10	430	0.99	0.22	0.76	0.71	15.35	11.8	14

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36528		1.18	27.7	2.90	4.37	<0.05	<0.02	0.06	0.028	0.06	8.9	15.5	0.30	260	3.10	<0.01
ZZ36529		1.05	53.2	5.01	2.54	<0.05	<0.02	0.04	0.039	0.07	3.2	4.5	0.07	387	4.99	<0.01
ZZ36530		1.13	40.5	2.14	2.51	<0.05	<0.02	0.06	0.029	0.07	2.5	1.2	0.03	99	4.13	<0.01
ZZ36531		1.32	37.5	1.80	1.88	<0.05	0.08	0.22	0.035	0.07	4.2	2.1	0.06	152	3.98	0.01
ZZ36532		1.02	42.1	3.05	1.42	<0.05	0.06	0.29	0.034	0.08	3.2	2.1	0.03	165	11.40	0.01
ZZ36533		1.20	44.4	3.46	1.82	<0.05	0.09	0.35	0.040	0.09	4.4	2.2	0.05	177	13.60	0.01
ZZ36534		0.85	46.6	4.81	1.72	0.05	0.07	0.21	0.057	0.04	9.2	2.4	0.07	940	9.64	0.01
ZZ36535		0.95	44.7	5.86	3.01	<0.05	0.04	0.09	0.074	0.06	5.7	4.6	0.05	328	11.15	0.01
ZZ36536		0.74	31.3	1.75	1.61	<0.05	0.06	0.10	0.025	0.04	4.7	5.6	0.14	161	4.75	0.01
ZZ36537		0.81	37.8	2.93	1.27	<0.05	0.03	0.13	0.039	0.04	6.0	2.6	0.13	294	3.14	0.01
ZZ36538		0.78	73.8	4.02	2.10	<0.05	0.03	0.16	0.053	0.04	7.6	2.6	0.09	380	6.41	0.01
ZZ36539		1.00	41.8	2.97	2.27	<0.05	0.05	0.15	0.040	0.05	5.6	6.8	0.16	423	4.74	0.01
ZZ36540		3.92	27.3	3.07	4.06	<0.05	0.02	0.02	0.029	0.08	5.0	12.4	0.21	602	1.42	0.01
ZZ36541		3.33	30.4	3.87	3.28	<0.05	0.03	0.02	0.033	0.07	5.9	17.2	0.35	991	1.51	0.01
ZZ36542		4.56	29.5	3.65	2.91	<0.05	0.03	0.02	0.031	0.08	3.6	11.2	0.20	778	1.17	0.01
ZZ36543		2.99	46.3	2.22	2.94	<0.05	0.06	0.14	0.027	0.07	5.4	13.1	0.41	478	0.84	0.01
ZZ36544		3.67	14.8	3.81	3.38	<0.05	0.03	0.02	0.023	0.07	3.3	11.5	0.28	1180	1.09	<0.01
ZZ36545		2.56	15.9	3.09	3.94	<0.05	<0.02	0.03	0.024	0.06	3.7	11.4	0.22	492	1.88	0.01
ZZ36546		2.94	35.1	3.66	4.73	<0.05	0.03	0.04	0.039	0.06	6.7	28.9	0.41	434	1.99	0.01
ZZ36547		2.35	22.2	4.04	4.82	<0.05	0.02	0.03	0.035	0.06	4.7	7.5	0.13	577	1.33	<0.01
ZZ36548		3.74	38.8	2.92	3.95	<0.05	0.05	0.13	0.037	0.10	6.4	17.1	0.41	463	1.65	0.01
ZZ36549		3.73	28.5	2.46	3.04	<0.05	0.05	0.13	0.025	0.08	5.4	13.2	0.40	479	1.26	0.01
ZZ36550		1.31	37.3	4.15	5.28	<0.05	0.05	0.05	0.037	0.06	9.9	24.0	0.43	341	2.97	0.01
ZZ36551		1.28	8.4	0.77	3.53	<0.05	<0.02	0.03	0.010	0.03	6.1	1.2	0.03	29	3.38	<0.01
ZZ36552		1.23	22.8	3.06	4.24	0.07	0.03	0.07	0.033	0.05	8.1	11.9	0.18	235	3.21	<0.01
ZZ36553		1.21	39.2	4.09	3.92	0.09	0.06	0.11	0.043	0.08	7.1	18.0	0.31	501	3.18	0.01
ZZ36554		1.37	28.4	4.67	3.13	0.08	<0.02	0.01	0.045	0.04	6.7	3.2	0.11	196	1.86	<0.01
ZZ36555		2.47	40.4	3.13	3.05	0.07	0.05	0.10	0.037	0.06	7.1	11.7	0.26	281	10.10	0.01

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**CERTIFICATE OF ANALYSIS WH12186536**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36528		0.49	29.7	370	17.3	9.0	0.001	0.01	1.06	2.7	1.1	0.6	24.7	<0.01	0.08	2.0
ZZ36529		0.22	42.2	880	19.8	12.5	<0.001	0.01	2.59	3.1	1.4	0.4	7.4	<0.01	0.10	1.1
ZZ36530		0.17	30.9	1210	13.0	8.8	<0.001	0.02	2.01	1.0	1.5	0.8	5.0	<0.01	0.05	0.3
ZZ36531		0.19	31.8	1330	12.1	11.2	0.010	0.10	2.05	2.6	3.7	0.5	44.6	<0.01	0.04	0.9
ZZ36532		0.09	60.2	1030	16.2	6.2	0.017	0.16	5.32	3.5	6.8	0.8	110.5	<0.01	0.12	1.2
ZZ36533		0.11	91.5	1470	16.6	9.3	0.006	0.24	5.75	2.9	9.3	0.8	171.5	<0.01	0.14	0.8
ZZ36534		0.20	186.5	2250	14.2	5.7	0.005	0.17	4.02	3.4	8.1	0.6	239	<0.01	0.15	0.4
ZZ36535		0.20	141.0	2050	18.3	6.4	0.004	0.16	4.35	4.9	9.3	0.6	169.5	<0.01	0.64	1.4
ZZ36536		0.14	20.5	430	14.4	4.3	0.001	0.06	1.07	2.9	1.0	0.5	47.1	<0.01	0.09	1.2
ZZ36537		0.20	43.0	1050	17.7	3.6	0.001	0.07	1.41	4.9	1.6	0.5	70.8	<0.01	0.05	1.3
ZZ36538		0.15	58.8	710	23.2	5.0	0.001	0.06	3.03	8.3	3.8	0.7	74.7	<0.01	0.10	2.1
ZZ36539		0.23	33.9	440	21.8	5.3	0.001	0.04	1.49	5.6	1.8	0.6	46.8	<0.01	0.13	1.3
ZZ36540		0.47	16.0	430	17.3	15.0	<0.001	0.02	0.40	3.9	0.3	0.7	12.0	<0.01	0.05	3.1
ZZ36541		0.40	24.7	430	19.6	10.7	<0.001	0.02	0.56	4.1	0.7	0.6	32.6	<0.01	0.06	2.4
ZZ36542		0.42	18.6	320	18.3	11.7	<0.001	0.01	0.46	3.7	0.5	0.8	13.2	<0.01	0.05	2.4
ZZ36543		0.39	23.5	750	13.7	9.1	<0.001	0.10	0.56	3.2	0.9	0.6	74.8	<0.01	0.02	0.9
ZZ36544		0.51	18.5	280	25.4	8.2	<0.001	0.01	0.44	3.0	0.2	0.9	7.8	<0.01	0.05	4.0
ZZ36545		0.41	16.0	310	18.0	12.6	<0.001	0.02	0.59	2.4	0.4	0.6	15.4	<0.01	0.06	2.0
ZZ36546		0.35	29.0	400	25.7	13.4	<0.001	0.01	0.65	3.5	0.6	0.6	13.9	<0.01	0.06	2.5
ZZ36547		0.45	11.9	340	14.5	13.5	<0.001	0.02	0.40	2.6	0.5	0.6	6.6	<0.01	0.06	2.2
ZZ36548		0.37	24.9	730	16.9	14.2	<0.001	0.06	0.62	5.8	1.2	0.6	97.7	<0.01	0.05	2.0
ZZ36549		0.38	20.4	780	11.5	19.5	0.001	0.09	0.67	3.6	1.2	0.5	143.0	<0.01	0.03	1.1
ZZ36550		0.51	33.1	230	22.4	12.7	<0.001	0.01	1.01	4.0	0.9	0.6	10.5	<0.01	0.06	3.7
ZZ36551		0.22	8.3	120	8.8	7.0	<0.001	0.01	0.63	1.0	0.5	0.5	11.6	<0.01	0.04	0.9
ZZ36552		0.50	24.9	520	15.0	10.2	<0.001	0.04	0.75	3.7	1.1	0.5	26.2	<0.01	0.05	1.8
ZZ36553		0.28	33.6	590	18.8	10.4	<0.001	0.06	0.86	5.9	1.4	0.5	56.5	<0.01	0.07	2.2
ZZ36554		0.28	21.9	700	11.3	7.3	<0.001	0.04	0.51	4.1	0.5	0.4	13.2	<0.01	0.03	1.5
ZZ36555		0.32	33.7	620	16.1	10.9	0.001	0.06	2.35	4.7	1.4	0.4	41.8	<0.01	0.05	1.0



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Project: ATAC- Regional Area

**CERTIFICATE OF ANALYSIS WH12186536**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36528		0.010	0.21	0.58	52	0.17	4.30	99	0.5
ZZ36529		<0.005	0.27	0.61	72	0.05	4.89	224	0.7
ZZ36530		<0.005	0.19	0.60	49	0.05	1.74	184	<0.5
ZZ36531		<0.005	0.41	6.87	39	0.05	9.86	153	2.3
ZZ36532		<0.005	0.79	3.50	94	0.06	16.20	357	2.3
ZZ36533		<0.005	1.69	3.65	152	0.09	19.95	544	3.0
ZZ36534		<0.005	1.00	4.81	167	0.07	51.5	1260	2.3
ZZ36535		<0.005	0.79	3.44	131	0.11	24.1	799	1.2
ZZ36536		<0.005	0.68	0.49	31	0.07	6.47	48	1.8
ZZ36537		<0.005	0.28	0.72	46	<0.05	9.84	78	1.3
ZZ36538		<0.005	0.46	1.47	86	0.05	14.25	127	1.4
ZZ36539		<0.005	0.42	1.00	49	0.07	9.10	85	1.7
ZZ36540		0.005	0.07	0.79	27	0.15	3.93	54	0.6
ZZ36541		0.008	0.08	1.21	30	0.16	6.05	78	0.8
ZZ36542		0.009	0.07	0.86	25	0.17	3.49	63	0.9
ZZ36543		<0.005	0.09	1.83	23	0.08	12.25	60	1.8
ZZ36544		0.010	0.05	0.73	24	0.21	3.43	48	0.7
ZZ36545		0.007	0.09	0.41	30	0.13	2.12	65	0.6
ZZ36546		<0.005	0.13	0.56	39	0.08	3.46	83	0.8
ZZ36547		0.006	0.07	0.47	33	0.12	2.22	44	0.6
ZZ36548		<0.005	0.13	2.19	33	0.08	9.47	80	1.5
ZZ36549		0.005	0.11	4.22	27	0.08	8.33	104	1.5
ZZ36550		0.007	0.19	0.62	66	0.11	3.86	124	2.3
ZZ36551		0.005	0.14	0.33	40	0.07	1.30	32	<0.5
ZZ36552		0.007	0.17	1.19	70	0.13	6.72	108	0.6
ZZ36553		<0.005	0.18	1.08	51	0.08	8.58	127	1.5
ZZ36554		<0.005	0.07	0.38	56	0.06	3.44	81	<0.5
ZZ36555		<0.005	0.23	1.44	33	0.09	9.11	81	1.0



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**CERTIFICATE OF ANALYSIS WH12186536**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12186537**

Project: ATAC- Regional Area  
 P.O. No.: Soil 30  
 This report is for 133 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12186537**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ59462		0.22	0.003	0.27	1.46	20.1	<0.2	<10	210	1.09	0.19	1.88	0.76	13.05	15.1	136
ZZ59463		0.27	0.012	0.35	1.11	14.1	<0.2	<10	450	0.77	0.22	2.17	0.84	14.40	9.5	21
ZZ59464		0.29	0.004	0.22	0.97	16.6	<0.2	<10	380	1.15	0.25	0.81	0.28	13.60	11.8	17
ZZ59465		0.25	0.003	0.21	0.80	19.2	<0.2	<10	440	0.77	0.27	0.74	0.17	6.77	6.6	27
ZZ59466		0.27	0.004	0.33	0.54	14.7	<0.2	<10	250	0.48	0.23	0.40	0.08	6.12	4.4	26
ZZ59467		0.27	0.004	0.91	1.20	12.0	<0.2	<10	450	0.91	0.31	1.15	0.19	15.70	9.1	41
ZZ59468		0.29	0.007	0.16	1.36	16.4	<0.2	<10	440	1.04	0.28	0.67	0.25	14.45	10.8	22
ZZ59469		0.29	0.003	0.17	1.10	12.5	<0.2	<10	400	0.61	0.24	1.64	0.30	10.45	6.4	16
ZZ59470		0.21	0.013	0.55	0.48	8.9	<0.2	<10	260	0.46	0.23	2.64	0.26	4.96	4.0	28
ZZ59471		0.19	0.008	0.36	0.89	8.5	<0.2	<10	390	0.66	0.18	3.50	1.48	8.53	6.2	22
ZZ59472		0.23	0.004	0.17	1.59	17.0	<0.2	<10	300	1.26	0.26	1.11	0.94	13.95	17.5	30
ZZ59473		0.30	0.008	0.13	1.35	18.6	<0.2	<10	160	0.75	0.29	0.17	0.20	18.50	10.6	23
ZZ59474		0.33	0.005	0.07	0.86	10.1	<0.2	<10	200	1.42	0.55	0.14	0.08	12.40	15.0	13
ZZ59475		0.31	0.003	0.18	1.47	17.0	<0.2	<10	250	1.37	0.44	0.15	0.31	21.8	14.2	24
ZZ59476		0.29	0.009	0.03	1.33	16.9	<0.2	<10	70	0.68	0.44	0.03	0.16	14.45	12.0	25
ZZ59477		0.29	0.004	0.06	0.95	11.4	<0.2	<10	140	0.39	0.35	0.02	0.07	16.10	5.2	13
ZZ59478		0.31	0.007	0.04	1.45	7.6	<0.2	<10	170	2.24	0.67	0.04	0.09	7.07	19.9	29
ZZ59479		0.32	0.009	0.03	0.79	10.2	<0.2	<10	280	1.79	0.58	0.17	0.03	5.70	12.0	31
ZZ59480		0.39	0.001	0.02	1.14	5.5	<0.2	<10	100	0.56	0.38	0.01	0.08	9.73	5.2	23
ZZ59481		0.27	0.002	0.04	1.41	10.5	<0.2	<10	100	0.90	0.40	0.01	0.13	12.25	10.8	27
ZZ59482		0.27	0.001	0.04	1.01	11.4	<0.2	<10	90	0.93	0.36	0.03	0.24	10.80	9.3	19
ZZ59483		0.29	0.001	0.03	1.03	10.7	<0.2	<10	110	0.59	0.34	0.04	0.14	13.55	7.0	20
ZZ59484		0.28	0.003	0.21	0.80	14.7	<0.2	<10	200	1.07	0.28	0.21	0.59	21.4	13.2	20
ZZ59485		0.32	0.004	0.22	1.05	13.4	<0.2	<10	170	0.81	0.25	0.16	0.41	25.3	11.3	22
ZZ59486		0.27	0.006	0.45	0.52	10.0	<0.2	<10	300	1.50	0.28	0.66	0.41	21.9	21.5	22
ZZ59487		0.24	0.008	1.31	0.68	9.2	<0.2	<10	650	0.57	0.15	4.73	0.57	5.10	5.0	12
ZZ59488		0.25	0.005	0.68	0.64	21.0	<0.2	<10	380	0.55	0.20	1.68	1.36	10.05	6.4	17
ZZ59489		0.33	0.003	0.07	1.03	13.0	<0.2	<10	170	0.51	0.29	0.41	0.45	9.86	9.0	23
ZZ59490		0.35	0.004	0.26	0.67	24.1	<0.2	<10	250	0.75	0.28	0.35	1.24	13.35	11.3	25
ZZ59491		0.28	0.002	0.24	1.10	16.7	<0.2	<10	260	0.58	0.26	0.43	0.31	16.50	6.9	21
ZZ59492		0.33	0.004	0.10	1.66	12.1	<0.2	<10	150	0.49	0.26	0.12	0.29	24.9	5.2	26
ZZ59493		0.24	0.008	0.97	0.95	14.5	<0.2	<10	520	0.79	0.25	1.41	1.76	10.25	12.4	21
ZZ59494		0.27	0.004	0.36	0.66	11.0	<0.2	<10	380	0.62	0.26	0.64	1.25	8.42	5.9	17
ZZ59495		0.24	0.004	0.57	0.85	13.3	<0.2	<10	340	0.66	0.22	1.58	1.02	11.35	7.8	17
ZZ59496		0.24	0.002	0.42	1.14	12.3	<0.2	<10	390	0.87	0.24	1.16	0.89	11.95	8.2	20
ZZ59497		0.26	0.004	0.44	1.27	16.8	<0.2	<10	500	0.91	0.28	1.07	1.23	15.10	9.2	24
ZZ59498		0.32	0.003	0.41	1.43	23.2	<0.2	<10	740	0.90	0.30	0.79	0.78	18.70	11.5	26
ZZ59499		0.25	0.008	0.31	1.43	10.3	<0.2	<10	1220	1.00	0.28	2.07	0.68	6.91	11.0	17
ZZ59500		0.28	0.003	0.16	1.18	18.0	<0.2	<10	150	0.77	0.29	0.19	0.26	15.05	10.6	20
ZZ51372		0.13	0.005	0.34	1.51	39.8	<0.2	<10	350	0.93	0.30	1.54	0.88	19.75	16.7	26



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ59462		1.14	62.2	8.61	4.36	0.05	0.05	0.14	0.111	0.06	6.9	17.1	0.37	581	2.21	0.02
ZZ59463		0.88	37.6	2.65	3.00	<0.05	0.06	0.21	0.031	0.08	6.7	16.6	0.37	556	1.33	0.01
ZZ59464		1.27	37.1	3.15	2.88	0.05	0.05	0.20	0.044	0.06	6.5	14.3	0.27	553	1.89	0.01
ZZ59465		0.97	32.3	2.94	2.66	<0.05	0.03	0.17	0.047	0.07	3.4	5.7	0.11	445	6.29	0.01
ZZ59466		1.01	13.0	2.43	2.10	<0.05	0.02	0.11	0.037	0.05	3.1	5.0	0.09	125	5.15	<0.01
ZZ59467		1.21	26.5	3.01	3.45	<0.05	0.05	0.22	0.038	0.06	7.5	14.2	0.29	533	2.60	0.01
ZZ59468		1.55	36.6	3.35	4.19	<0.05	0.05	0.09	0.039	0.07	7.1	20.6	0.36	441	1.77	0.01
ZZ59469		1.29	25.3	2.28	3.82	<0.05	0.03	0.07	0.026	0.05	6.1	11.1	0.20	293	1.61	0.01
ZZ59470		0.76	14.5	1.67	1.54	<0.05	0.04	0.16	0.027	0.04	2.6	3.9	0.09	290	2.12	0.01
ZZ59471		0.87	26.7	2.00	2.29	<0.05	0.05	0.14	0.025	0.06	6.4	8.3	0.17	352	1.08	0.01
ZZ59472		1.39	30.9	4.22	3.82	<0.05	0.08	0.09	0.040	0.06	6.9	18.0	0.27	797	4.68	0.01
ZZ59473		1.33	32.3	3.69	4.70	<0.05	0.04	0.05	0.035	0.07	8.2	21.1	0.41	383	1.63	0.01
ZZ59474		2.08	47.1	2.99	2.75	<0.05	0.02	0.04	0.037	0.07	5.7	12.1	0.18	953	0.81	<0.01
ZZ59475		4.83	38.5	3.34	4.34	<0.05	0.08	0.07	0.039	0.08	9.6	28.3	0.35	997	1.35	0.01
ZZ59476		3.37	28.2	3.86	4.60	<0.05	0.02	0.04	0.039	0.06	6.8	18.7	0.30	870	1.57	<0.01
ZZ59477		1.88	22.2	2.70	4.98	<0.05	<0.02	0.02	0.027	0.06	7.6	3.9	0.09	228	1.33	<0.01
ZZ59478		8.20	45.8	4.49	4.02	<0.05	0.04	0.02	0.041	0.07	2.5	22.9	0.36	2260	0.88	0.01
ZZ59479		8.54	42.5	4.60	2.52	0.05	<0.02	0.01	0.035	0.09	2.9	8.8	0.19	1560	1.50	0.01
ZZ59480		2.95	20.5	3.00	4.36	<0.05	<0.02	0.02	0.026	0.07	4.8	6.3	0.10	726	1.11	<0.01
ZZ59481		2.72	29.4	4.08	4.70	<0.05	0.02	0.04	0.035	0.07	5.3	17.7	0.24	841	1.49	0.01
ZZ59482		2.21	22.1	3.41	3.86	<0.05	<0.02	0.04	0.031	0.07	5.2	12.1	0.12	1200	1.21	0.01
ZZ59483		1.98	21.6	3.24	4.07	<0.05	<0.02	0.04	0.028	0.05	6.3	9.1	0.14	354	1.73	<0.01
ZZ59484		1.37	43.6	3.39	2.71	0.05	<0.02	0.04	0.033	0.06	10.7	11.1	0.24	546	2.63	0.01
ZZ59485		1.79	34.4	3.09	3.57	0.06	<0.02	0.06	0.032	0.05	12.4	12.8	0.28	407	2.98	0.01
ZZ59486		1.80	64.4	4.79	1.60	0.07	0.05	0.08	0.054	0.05	10.9	3.8	0.11	415	2.82	0.01
ZZ59487		1.13	24.7	1.54	1.75	<0.05	0.05	0.22	0.022	0.04	3.8	2.3	0.10	317	3.23	0.02
ZZ59488		0.72	21.5	2.31	1.71	<0.05	0.06	0.22	0.028	0.04	6.1	5.2	0.12	184	10.95	0.01
ZZ59489		1.46	23.0	3.13	3.68	<0.05	0.03	0.03	0.033	0.06	4.3	12.7	0.23	540	6.18	0.01
ZZ59490		0.91	45.6	3.40	2.49	0.05	0.02	0.09	0.039	0.06	6.4	7.5	0.14	268	10.20	0.01
ZZ59491		1.44	25.8	2.93	4.65	<0.05	0.02	0.06	0.027	0.05	8.0	15.7	0.23	199	3.59	0.01
ZZ59492		1.68	16.1	2.75	6.04	<0.05	0.02	0.05	0.030	0.05	12.5	16.5	0.27	185	2.10	0.01
ZZ59493		1.24	36.4	2.81	2.57	<0.05	0.09	0.29	0.040	0.07	5.0	8.9	0.15	796	5.00	0.01
ZZ59494		1.10	30.0	2.30	2.01	<0.05	0.05	0.16	0.035	0.07	4.1	6.2	0.09	152	4.07	0.01
ZZ59495		0.97	36.9	2.45	2.37	<0.05	0.06	0.18	0.033	0.07	5.6	10.7	0.23	285	2.86	0.01
ZZ59496		0.98	31.4	2.78	3.21	<0.05	0.07	0.12	0.031	0.07	6.4	14.6	0.33	393	4.54	0.01
ZZ59497		1.28	40.0	2.81	3.52	<0.05	0.09	0.17	0.043	0.08	7.6	16.3	0.31	367	3.99	0.01
ZZ59498		1.14	33.2	3.14	4.28	<0.05	0.05	0.18	0.040	0.07	8.6	18.3	0.37	383	3.98	0.01
ZZ59499		1.81	31.2	2.94	3.60	<0.05	0.08	0.13	0.038	0.11	3.2	15.6	0.30	622	2.26	0.02
ZZ59500		2.15	31.8	3.15	3.84	<0.05	0.02	0.13	0.032	0.07	7.1	19.6	0.34	339	2.42	0.01
ZZ51372		1.67	63.6	3.75	4.41	<0.05	0.07	0.22	0.039	0.12	9.2	21.1	0.80	486	3.49	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ59462		0.42	53.0	1190	11.2	8.3	0.001	0.09	0.96	8.2	2.8	0.5	82.3	<0.01	0.09	1.5
ZZ59463		0.27	32.4	820	15.3	8.2	0.002	0.11	0.69	4.2	1.8	0.4	76.0	<0.01	0.07	1.2
ZZ59464		0.19	45.3	810	15.2	8.9	0.001	0.03	0.69	6.0	1.7	0.4	31.4	<0.01	0.06	2.4
ZZ59465		0.10	22.6	620	14.5	9.2	<0.001	0.05	0.72	4.6	1.6	0.7	33.6	<0.01	0.10	1.0
ZZ59466		0.11	11.0	400	12.0	7.6	0.002	0.02	0.75	2.5	1.0	0.7	30.9	<0.01	0.09	1.0
ZZ59467		0.40	23.9	920	16.2	8.4	0.001	0.06	0.96	4.5	1.7	0.6	55.8	<0.01	0.10	1.7
ZZ59468		0.28	29.8	540	16.6	8.7	<0.001	0.02	0.59	5.2	0.9	0.6	26.0	<0.01	0.07	2.2
ZZ59469		0.36	18.1	510	12.6	6.7	<0.001	0.05	0.56	2.8	0.8	0.6	37.8	0.01	0.05	1.1
ZZ59470		0.16	11.9	730	10.9	6.7	<0.001	0.13	0.87	1.3	1.3	0.5	62.4	<0.01	0.10	0.3
ZZ59471		0.26	23.7	1540	11.6	7.0	0.001	0.14	0.73	2.5	2.3	0.4	71.4	<0.01	0.08	0.6
ZZ59472		0.24	63.9	950	17.8	9.9	<0.001	0.06	1.00	7.7	1.7	0.4	55.0	<0.01	0.09	1.8
ZZ59473		0.30	27.7	560	18.0	8.6	0.001	0.01	0.64	3.8	0.6	0.5	14.0	<0.01	0.05	2.5
ZZ59474		0.09	24.0	380	33.0	7.8	<0.001	<0.01	0.49	6.5	0.5	0.5	17.2	<0.01	0.05	3.0
ZZ59475		0.32	23.9	670	32.8	16.1	<0.001	0.02	0.49	5.2	0.9	0.7	18.0	<0.01	0.05	3.1
ZZ59476		0.69	19.0	500	24.0	11.7	0.001	0.01	0.73	3.2	0.4	0.8	7.6	<0.01	0.06	2.8
ZZ59477		0.36	10.1	370	14.9	14.0	<0.001	<0.01	0.43	2.5	<0.2	0.7	8.3	<0.01	0.07	1.9
ZZ59478		0.33	24.2	540	33.2	10.4	<0.001	0.01	0.40	4.7	0.5	0.9	7.4	<0.01	0.12	4.7
ZZ59479		0.39	16.8	300	31.4	12.5	<0.001	<0.01	0.47	5.9	0.6	1.1	12.6	<0.01	0.06	4.3
ZZ59480		0.44	8.1	170	10.1	21.2	<0.001	<0.01	0.46	3.1	0.4	0.9	7.5	<0.01	0.05	2.7
ZZ59481		0.47	19.0	220	20.5	14.0	<0.001	<0.01	0.63	3.6	0.7	0.9	6.9	<0.01	0.06	4.2
ZZ59482		0.35	15.2	370	18.5	13.0	<0.001	0.01	0.58	3.8	0.3	0.7	7.7	<0.01	0.06	1.6
ZZ59483		0.41	17.1	330	14.3	12.1	<0.001	<0.01	0.70	2.7	0.5	0.7	11.8	<0.01	0.06	2.2
ZZ59484		0.36	37.6	710	18.9	6.4	<0.001	<0.01	1.33	5.0	1.3	0.6	34.5	<0.01	0.09	3.1
ZZ59485		0.47	32.9	810	15.8	8.6	0.001	0.01	1.34	4.1	0.9	0.6	33.3	<0.01	0.07	2.1
ZZ59486		0.11	63.1	1400	19.3	5.5	0.002	0.02	1.37	10.5	2.0	0.9	61.9	<0.01	0.18	3.2
ZZ59487		0.15	29.3	1110	9.1	5.7	0.004	0.18	3.15	1.2	5.0	0.7	103.5	<0.01	0.07	0.2
ZZ59488		0.19	40.8	890	13.2	5.4	0.004	0.06	3.28	2.9	2.4	0.5	34.6	<0.01	0.12	0.9
ZZ59489		0.32	21.2	500	18.1	9.7	<0.001	0.02	0.90	3.2	0.8	0.9	17.4	<0.01	0.07	2.1
ZZ59490		0.17	44.5	710	16.6	6.1	0.002	0.03	1.72	4.6	2.0	0.6	50.5	<0.01	0.12	2.0
ZZ59491		0.48	24.1	570	15.2	8.4	<0.001	0.02	1.01	2.9	1.1	0.9	30.1	<0.01	0.08	1.5
ZZ59492		0.87	17.0	650	14.3	10.8	<0.001	0.01	0.69	2.6	1.3	0.7	15.3	<0.01	0.06	1.6
ZZ59493		0.16	38.7	1050	15.9	10.8	0.020	0.11	1.68	3.9	7.0	0.8	64.0	<0.01	0.10	1.1
ZZ59494		0.15	32.0	720	15.1	8.8	0.004	0.05	1.24	3.3	3.0	0.6	42.3	<0.01	0.09	1.4
ZZ59495		0.19	31.1	920	12.9	8.0	0.004	0.09	1.28	3.2	3.1	0.5	58.8	<0.01	0.07	0.9
ZZ59496		0.26	28.5	890	14.6	8.4	0.010	0.09	1.17	4.1	3.2	0.5	44.6	<0.01	0.07	1.2
ZZ59497		0.32	35.3	850	15.2	10.9	0.008	0.09	1.07	5.7	3.3	0.6	71.7	<0.01	0.08	2.0
ZZ59498		0.37	37.2	950	16.9	9.0	0.001	0.03	1.10	5.3	1.5	0.6	39.0	<0.01	0.03	2.0
ZZ59499		0.15	36.0	900	21.7	12.2	0.002	0.18	0.96	5.1	1.7	0.9	67.8	<0.01	0.03	1.3
ZZ59500		0.23	32.8	630	17.6	10.7	0.002	0.01	1.17	4.4	1.2	0.6	18.9	<0.01	0.06	2.5
ZZ51372		0.24	45.8	730	21.5	7.8	0.001	0.02	1.22	7.1	2.0	0.5	42.9	<0.01	0.06	3.4



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ59462		0.009	0.23	1.60	51	0.12	18.75	171	1.5
ZZ59463		0.005	0.16	1.12	38	0.06	11.15	111	1.7
ZZ59464		<0.005	0.13	1.01	31	0.06	12.45	120	1.4
ZZ59465		<0.005	0.21	1.05	31	<0.05	5.76	64	1.4
ZZ59466		<0.005	0.13	0.55	28	<0.05	3.07	44	0.7
ZZ59467		0.007	0.15	1.25	41	0.13	9.54	71	1.5
ZZ59468		0.005	0.13	0.90	40	0.09	7.64	92	1.2
ZZ59469		0.006	0.13	0.79	38	0.08	5.48	55	0.9
ZZ59470		<0.005	0.12	1.01	26	<0.05	4.08	59	1.2
ZZ59471		0.005	0.12	3.08	33	0.06	20.4	109	1.4
ZZ59472		<0.005	0.20	1.46	53	0.09	18.90	221	2.3
ZZ59473		0.006	0.12	0.61	41	0.07	4.70	83	1.0
ZZ59474		<0.005	0.05	0.72	16	<0.05	9.26	77	0.7
ZZ59475		0.006	0.12	1.15	35	0.11	9.83	85	2.2
ZZ59476		0.017	0.11	0.77	37	0.25	3.13	73	0.6
ZZ59477		0.006	0.11	0.47	41	0.11	2.20	47	<0.5
ZZ59478		0.009	0.07	1.24	27	0.13	5.56	65	1.0
ZZ59479		0.013	0.05	1.40	24	0.33	8.60	40	<0.5
ZZ59480		0.009	0.10	0.46	34	0.16	2.06	38	<0.5
ZZ59481		0.009	0.14	0.78	37	0.19	2.68	56	0.6
ZZ59482		0.008	0.10	0.59	33	0.13	3.86	69	<0.5
ZZ59483		0.009	0.12	0.55	39	0.17	2.81	62	<0.5
ZZ59484		0.014	0.13	0.88	37	0.13	8.79	120	<0.5
ZZ59485		0.017	0.20	0.96	44	0.17	9.05	102	<0.5
ZZ59486		<0.005	0.17	1.06	52	<0.05	15.95	92	1.6
ZZ59487		<0.005	0.76	14.25	85	0.08	15.00	72	1.7
ZZ59488		<0.005	0.47	2.64	70	0.08	15.15	114	1.7
ZZ59489		0.006	0.22	0.53	40	0.13	2.94	90	1.0
ZZ59490		0.005	0.35	1.22	44	0.06	10.30	173	0.9
ZZ59491		0.010	0.25	0.74	55	0.16	5.45	82	0.8
ZZ59492		0.022	0.24	0.85	56	0.27	4.63	60	0.6
ZZ59493		<0.005	0.46	3.42	54	<0.05	13.50	135	2.4
ZZ59494		<0.005	0.34	2.40	39	<0.05	8.29	126	1.5
ZZ59495		<0.005	0.29	1.97	39	0.05	11.00	119	1.5
ZZ59496		0.005	0.19	3.43	43	0.06	11.05	134	1.7
ZZ59497		0.005	0.38	2.01	45	0.08	11.60	112	2.7
ZZ59498		0.007	0.27	1.47	52	0.11	10.10	123	1.7
ZZ59499		<0.005	0.21	0.78	26	0.05	10.60	104	2.5
ZZ59500		0.006	0.15	0.62	37	0.08	6.80	111	0.5
ZZ51372		0.007	0.25	0.76	54	0.07	11.85	154	2.4



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ51373		0.25	0.005	0.43	0.32	22.0	<0.2	<10	500	0.51	0.30	0.37	2.09	3.77	2.9	7
ZZ51374		0.14	0.006	0.67	1.39	19.9	<0.2	<10	710	0.95	0.27	1.62	0.87	17.90	12.8	24
ZZ51375		0.22	0.004	0.70	1.13	29.3	<0.2	<10	450	0.97	0.27	0.52	1.09	19.85	11.9	25
ZZ51376		0.14	0.007	0.79	1.42	17.6	<0.2	<10	480	0.95	0.29	0.79	0.61	21.7	11.5	24
ZZ51377		0.15	0.004	0.43	0.85	13.3	<0.2	<10	830	0.59	0.19	2.08	0.95	12.05	9.2	16
ZZ51378		0.26	0.004	0.30	0.84	15.1	<0.2	<10	410	0.69	0.26	0.51	0.93	16.95	8.4	17
ZZ51379		0.21	0.005	0.37	1.46	30.7	<0.2	<10	730	0.87	0.31	0.45	1.07	26.7	13.2	25
ZZ51380		0.18	0.006	0.48	1.91	33.1	<0.2	<10	320	1.43	0.35	0.17	1.04	31.0	24.2	32
ZZ51381		0.15	0.003	0.49	0.97	24.7	<0.2	<10	150	0.47	0.30	0.06	0.52	12.85	8.7	20
ZZ51382		0.14	0.004	0.14	0.59	10.6	<0.2	<10	200	0.22	0.22	0.24	0.46	14.40	5.2	12
ZZ51383		0.13	0.006	0.55	1.29	17.9	<0.2	<10	620	0.89	0.26	1.02	1.31	19.90	13.6	20
ZZ51384		0.23	0.003	0.48	1.74	24.0	<0.2	<10	770	0.98	0.30	0.30	1.05	26.9	14.7	26
ZZ51385		0.18	0.002	0.46	1.42	22.2	<0.2	<10	110	0.38	0.31	0.02	0.46	11.75	10.0	24
ZZ51386		0.22	0.005	0.37	1.33	19.1	<0.2	<10	200	0.94	0.31	0.09	1.10	14.25	15.6	19
ZZ51387		0.12	0.006	0.69	0.74	9.2	<0.2	<10	440	0.62	0.27	0.95	1.78	20.5	8.2	12
ZZ51388		0.18	0.005	0.83	1.01	11.7	<0.2	<10	560	0.61	0.26	0.62	0.96	17.15	11.1	16
ZZ51389		0.15	0.004	0.57	1.14	10.9	<0.2	<10	80	0.20	0.31	0.03	0.30	15.95	4.5	17
ZZ51390		0.29	0.006	0.63	0.96	9.9	<0.2	<10	430	0.64	0.25	0.42	0.81	19.55	9.2	17
ZZ51391		0.23	0.007	0.57	0.99	11.1	<0.2	<10	470	0.63	0.25	0.24	0.50	18.00	9.0	17
ZZ51392		0.19	0.006	0.17	0.93	19.5	<0.2	<10	230	0.68	0.30	0.13	0.86	14.90	12.7	16
ZZ51393		0.22	0.004	0.51	2.20	23.8	<0.2	<10	380	1.24	0.30	0.22	0.49	44.0	16.0	34
ZZ51394		0.22	0.003	0.05	0.48	18.2	<0.2	<10	150	1.26	0.39	0.07	0.26	9.63	25.7	9
ZZ51395		0.20	0.006	0.43	1.55	11.8	<0.2	<10	560	0.92	0.32	0.16	0.62	17.90	18.1	26
ZZ51396		0.24	0.005	0.38	1.73	15.8	<0.2	<10	420	1.16	0.35	0.25	0.37	15.40	17.6	28
ZZ51397		0.20	0.003	0.19	1.43	10.9	<0.2	<10	270	0.76	0.34	0.34	0.33	13.10	8.2	24
ZZ51398		0.16	0.011	0.27	1.30	16.0	<0.2	<10	270	0.69	0.37	0.34	0.26	10.65	13.9	21
ZZ51399		0.22	0.003	0.09	1.32	12.7	<0.2	<10	190	0.67	0.26	0.20	0.12	11.55	11.4	22
ZZ51400		0.20	0.003	0.09	1.44	12.1	<0.2	<10	190	0.78	0.29	0.28	0.16	12.30	11.7	24
ZZ51401		0.23	0.006	0.33	1.60	15.5	<0.2	<10	260	1.38	0.35	0.18	0.58	19.55	12.8	25
ZZ51402		0.14	0.005	0.64	1.66	21.6	<0.2	<10	360	1.12	0.29	0.40	0.80	16.50	22.8	23
ZZ51403		0.23	0.004	0.04	1.38	14.0	<0.2	<10	180	0.64	0.32	0.27	0.19	21.2	7.7	22
ZZ51404		0.16	0.003	0.03	1.38	17.2	<0.2	<10	90	0.41	0.29	0.07	0.20	16.25	7.6	21
ZZ51405		0.11	0.001	0.29	1.69	26.7	<0.2	<10	270	0.62	0.27	1.52	0.92	22.5	7.4	29
ZZ51406		0.16	0.004	0.46	1.41	71.9	<0.2	<10	240	0.67	0.22	1.49	1.38	20.2	11.2	28
ZZ51407		0.12	0.007	0.30	2.22	3850	<0.2	<10	530	1.02	0.22	1.22	1.87	29.4	11.4	46
ZZ51408		0.20	0.002	0.09	1.76	90.3	<0.2	<10	240	0.46	0.27	0.52	0.27	28.4	10.2	31
ZZ51409		0.18	0.003	0.14	1.89	111.5	<0.2	<10	430	0.58	0.28	0.61	0.30	29.1	11.6	32
ZZ51410		0.15	0.002	0.33	1.83	32.8	<0.2	<10	500	0.59	0.25	0.72	0.23	25.3	9.5	28
ZZ51411		0.23	0.003	0.12	1.89	130.0	<0.2	<10	520	0.81	0.26	0.43	0.38	25.5	18.4	29
ZZ51412		0.22	0.003	0.08	1.42	133.5	<0.2	<10	240	0.35	0.29	0.19	0.27	13.20	13.8	25



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Project: ATAC- Regional Area

**CERTIFICATE OF ANALYSIS WH12186537**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ51373		2.21	70.0	2.05	1.07	<0.05	0.08	0.33	0.027	0.07	2.0	2.2	0.07	223	36.5	0.01
ZZ51374		1.19	52.0	3.27	4.12	0.06	0.05	0.30	0.039	0.07	9.2	15.3	0.46	696	6.86	0.02
ZZ51375		1.08	62.2	3.66	3.50	<0.05	0.07	0.32	0.043	0.08	10.2	16.4	0.37	347	6.38	0.01
ZZ51376		1.74	72.8	3.08	4.49	0.05	0.05	0.14	0.047	0.08	9.1	20.6	0.45	343	4.19	0.01
ZZ51377		0.83	33.9	2.23	2.70	<0.05	0.05	0.19	0.025	0.06	5.5	10.5	0.39	427	1.95	0.02
ZZ51378		1.13	39.7	2.77	3.04	0.05	0.04	0.10	0.032	0.07	8.2	10.3	0.26	300	4.11	0.01
ZZ51379		1.21	49.2	3.79	4.58	0.06	0.02	0.19	0.038	0.09	13.3	21.8	0.44	472	3.71	0.01
ZZ51380		1.41	68.1	4.41	4.92	0.06	0.04	0.22	0.050	0.10	14.0	28.7	0.49	698	4.65	0.01
ZZ51381		1.44	35.0	3.76	3.53	<0.05	0.02	0.05	0.039	0.08	6.0	10.5	0.22	243	6.56	0.01
ZZ51382		1.39	30.8	1.73	3.87	<0.05	<0.02	0.04	0.019	0.07	6.9	2.5	0.08	118	3.17	0.01
ZZ51383		1.08	52.5	3.56	3.88	<0.05	0.04	0.19	0.041	0.10	8.8	18.4	0.37	896	2.91	0.01
ZZ51384		1.49	51.1	4.05	4.83	0.06	0.04	0.13	0.036	0.09	13.1	30.6	0.49	515	2.88	0.01
ZZ51385		1.46	38.3	4.73	5.58	<0.05	0.02	0.05	0.034	0.08	5.5	11.2	0.26	382	3.28	0.01
ZZ51386		1.06	72.3	3.48	3.24	<0.05	0.04	0.11	0.051	0.10	5.9	15.1	0.27	345	4.56	<0.01
ZZ51387		0.78	60.7	2.26	2.36	0.06	0.05	0.19	0.036	0.09	8.0	7.3	0.21	210	2.88	0.01
ZZ51388		1.43	47.8	2.29	3.19	0.05	0.03	0.22	0.040	0.11	7.0	11.7	0.26	426	3.32	0.01
ZZ51389		1.63	18.3	2.48	5.37	<0.05	<0.02	0.04	0.024	0.06	8.0	4.8	0.12	116	2.42	0.01
ZZ51390		1.38	42.5	2.35	3.10	0.05	0.04	0.21	0.039	0.10	8.6	13.9	0.23	355	2.89	0.01
ZZ51391		1.38	34.7	2.34	3.20	<0.05	0.02	0.23	0.037	0.10	8.0	13.5	0.25	264	3.07	0.01
ZZ51392		1.35	59.6	4.41	2.89	<0.05	0.03	0.11	0.049	0.10	5.6	8.8	0.14	665	3.95	0.01
ZZ51393		1.69	46.2	3.88	5.73	0.09	0.06	0.14	0.038	0.10	22.8	25.8	0.64	502	1.55	0.01
ZZ51394		1.43	42.5	3.87	1.23	<0.05	<0.02	0.05	0.041	0.07	3.7	6.4	0.04	474	1.39	0.01
ZZ51395		2.94	32.2	3.01	4.90	<0.05	0.03	0.16	0.032	0.09	7.8	20.4	0.35	720	3.12	0.01
ZZ51396		2.24	36.8	3.88	5.33	<0.05	0.05	0.14	0.046	0.08	6.4	38.7	0.53	892	4.30	0.01
ZZ51397		2.33	30.1	3.14	4.72	<0.05	0.04	0.08	0.035	0.11	5.2	20.3	0.35	187	2.13	0.01
ZZ51398		1.93	25.0	3.53	4.24	<0.05	0.03	0.09	0.034	0.10	4.5	17.4	0.32	708	4.93	0.01
ZZ51399		1.37	17.6	3.34	4.16	<0.05	0.03	0.06	0.032	0.07	5.4	28.2	0.40	251	1.79	0.01
ZZ51400		1.86	20.5	3.12	4.70	<0.05	0.04	0.06	0.034	0.07	5.5	30.6	0.41	211	1.51	0.01
ZZ51401		3.21	35.2	3.60	4.73	<0.05	0.06	0.12	0.041	0.09	8.2	33.7	0.39	487	2.19	0.01
ZZ51402		2.47	26.6	7.20	4.38	0.06	0.05	0.26	0.042	0.09	6.2	28.7	0.29	882	2.59	0.01
ZZ51403		2.33	19.6	2.81	5.24	<0.05	<0.02	0.04	0.028	0.06	11.3	18.5	0.31	329	2.09	0.01
ZZ51404		1.98	22.3	3.01	5.47	<0.05	0.02	0.04	0.032	0.06	5.9	14.0	0.23	248	2.62	0.01
ZZ51405		1.35	16.6	2.82	5.50	0.08	0.04	0.27	0.035	0.06	17.9	15.1	0.36	358	1.13	0.01
ZZ51406		1.62	27.2	3.00	4.14	0.08	0.06	0.47	0.034	0.07	16.1	19.2	0.41	645	1.50	0.01
ZZ51407		0.90	36.1	3.00	5.09	0.09	0.12	0.20	0.034	0.06	16.4	24.1	0.99	675	1.29	0.01
ZZ51408		1.73	20.0	3.67	6.25	0.07	0.02	0.07	0.034	0.06	13.0	21.0	0.51	390	1.54	0.01
ZZ51409		1.76	26.3	3.82	6.40	0.09	0.04	0.14	0.037	0.07	11.7	19.9	0.55	512	1.55	0.01
ZZ51410		1.53	21.1	3.22	5.80	0.08	0.04	0.14	0.034	0.05	12.8	17.0	0.45	315	1.25	0.01
ZZ51411		1.93	47.6	4.32	5.17	0.09	0.06	0.09	0.044	0.08	10.6	22.5	0.61	814	2.18	<0.01
ZZ51412		1.71	25.2	4.47	7.03	0.07	0.02	0.05	0.036	0.07	5.7	15.3	0.33	661	2.21	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ51373		0.05	29.4	380	16.9	7.9	0.004	0.04	2.11	2.6	3.3	0.5	60.5	<0.01	0.10	1.4
ZZ51374		0.38	44.7	970	19.7	8.7	0.004	0.08	2.21	5.6	5.9	0.6	82.2	<0.01	0.06	1.8
ZZ51375		0.22	57.7	1010	21.1	7.4	0.001	0.03	2.19	6.9	2.1	0.5	53.3	<0.01	0.05	3.4
ZZ51376		0.37	44.0	700	18.0	10.3	0.001	0.05	1.81	7.0	3.0	0.7	88.3	<0.01	0.07	3.0
ZZ51377		0.27	28.9	750	13.2	7.3	0.004	0.13	1.35	3.3	4.8	0.5	106.0	<0.01	0.01	1.2
ZZ51378		0.30	36.0	610	14.6	8.2	0.002	0.03	1.55	4.1	2.1	0.6	34.8	<0.01	0.03	2.3
ZZ51379		0.25	46.3	790	23.3	8.7	<0.001	0.01	1.20	5.3	1.4	0.6	37.0	<0.01	0.07	3.3
ZZ51380		0.19	58.7	800	27.2	11.1	0.001	0.02	1.65	7.5	2.3	0.7	28.3	<0.01	0.08	4.7
ZZ51381		0.45	35.8	1100	22.0	11.7	0.002	0.03	2.34	3.1	2.2	0.7	29.8	<0.01	0.05	2.7
ZZ51382		0.23	19.9	390	10.5	9.7	<0.001	0.01	1.19	1.6	0.8	0.9	16.8	<0.01	0.04	0.7
ZZ51383		0.26	41.8	840	18.9	9.0	0.002	0.05	1.35	5.7	2.6	0.7	55.8	<0.01	0.02	2.3
ZZ51384		0.18	50.4	660	22.1	10.1	<0.001	0.02	1.09	6.1	1.4	0.6	28.4	<0.01	0.05	3.4
ZZ51385		0.43	35.3	680	25.3	14.8	<0.001	0.01	1.77	3.1	1.5	0.7	6.6	<0.01	0.06	2.0
ZZ51386		0.13	59.5	720	21.9	10.9	<0.001	0.01	2.96	4.6	2.7	0.6	15.3	<0.01	0.06	3.3
ZZ51387		0.19	38.4	930	16.4	8.0	0.001	0.08	1.98	4.2	2.9	0.5	43.7	<0.01	0.05	2.3
ZZ51388		0.22	34.8	1060	16.7	11.6	0.003	0.05	1.55	4.3	3.1	0.5	35.4	<0.01	0.04	2.3
ZZ51389		0.73	15.3	390	14.7	12.5	<0.001	0.01	1.32	1.9	0.8	0.9	6.2	<0.01	0.04	1.8
ZZ51390		0.32	32.7	950	15.7	11.2	0.001	0.03	1.81	4.2	3.2	0.6	29.2	<0.01	0.04	2.5
ZZ51391		0.25	29.4	840	15.3	10.8	0.002	0.01	1.46	3.7	2.4	0.6	19.8	<0.01	0.04	3.0
ZZ51392		0.16	42.6	1370	26.5	10.9	0.002	0.02	2.10	4.0	2.9	0.8	13.6	<0.01	0.06	2.2
ZZ51393		0.39	40.7	570	21.0	13.1	<0.001	0.01	0.82	7.5	1.5	0.6	17.6	<0.01	0.04	2.8
ZZ51394		<0.05	57.0	580	25.8	7.5	<0.001	<0.01	0.77	5.0	0.9	0.5	19.1	<0.01	0.06	3.0
ZZ51395		0.31	33.8	1010	19.5	17.0	0.001	0.02	1.23	3.9	1.5	0.7	15.6	<0.01	0.02	2.2
ZZ51396		0.21	50.3	1020	20.1	11.9	0.001	0.02	0.94	6.4	1.7	0.8	20.3	<0.01	0.03	3.4
ZZ51397		0.23	33.4	840	19.6	13.6	<0.001	0.10	0.73	4.8	1.4	0.7	40.0	<0.01	0.03	2.2
ZZ51398		0.16	30.1	1100	23.5	13.2	<0.001	0.09	0.63	4.3	1.2	0.7	32.8	<0.01	0.03	2.3
ZZ51399		0.20	29.6	630	16.3	9.8	0.001	0.01	0.56	3.5	1.5	0.5	19.1	<0.01	0.01	3.2
ZZ51400		0.29	31.3	570	18.9	12.3	0.001	0.01	0.52	3.8	1.7	0.6	27.5	<0.01	0.02	2.8
ZZ51401		0.26	58.7	810	16.7	18.3	0.001	0.03	0.64	7.4	2.2	0.7	22.4	<0.01	0.03	3.2
ZZ51402		0.18	40.6	990	16.7	18.1	0.004	0.06	0.63	6.7	3.6	0.8	35.9	<0.01	0.03	2.8
ZZ51403		0.47	22.9	650	17.3	13.5	<0.001	0.01	0.52	2.6	0.7	0.7	15.2	<0.01	0.01	1.6
ZZ51404		0.41	26.1	460	16.1	13.4	0.001	0.01	0.79	2.7	0.7	0.9	8.1	<0.01	0.04	1.8
ZZ51405		0.76	25.2	930	16.3	11.0	<0.001	0.05	0.60	3.6	1.2	0.7	25.6	0.01	0.07	1.7
ZZ51406		0.45	36.8	1170	17.3	9.5	0.001	0.07	0.83	4.0	1.8	0.7	26.7	0.01	0.09	1.4
ZZ51407		0.36	39.6	3140	20.1	9.0	0.002	0.08	0.62	4.1	2.2	0.5	422	0.01	0.07	2.6
ZZ51408		1.16	28.3	710	17.7	10.5	<0.001	0.05	0.76	3.5	0.8	0.8	22.6	<0.01	0.07	2.6
ZZ51409		0.82	30.2	720	19.2	11.0	<0.001	0.05	0.79	3.8	0.9	0.8	26.1	<0.01	0.07	2.1
ZZ51410		0.75	25.0	750	16.3	10.7	<0.001	0.05	0.58	3.9	0.8	0.8	22.3	<0.01	0.06	2.2
ZZ51411		0.30	42.5	700	30.5	10.5	0.001	0.04	1.01	5.0	1.2	0.7	25.2	<0.01	0.09	3.8
ZZ51412		0.48	27.3	560	22.7	14.2	<0.001	0.05	0.65	3.3	0.8	0.9	16.5	<0.01	0.08	1.7



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**CERTIFICATE OF ANALYSIS WH12186537**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ51373		<0.005	0.92	2.29	44	0.06	10.70	134	3.6
ZZ51374		0.005	0.33	4.26	79	0.10	13.25	97	1.7
ZZ51375		0.005	0.28	1.73	77	0.07	14.45	189	2.4
ZZ51376		0.007	0.30	2.15	64	0.10	10.20	140	2.0
ZZ51377		0.005	0.18	4.27	52	0.07	7.19	88	1.7
ZZ51378		0.008	0.20	1.10	48	0.09	9.89	156	0.8
ZZ51379		0.006	0.26	1.04	62	0.07	16.80	148	0.8
ZZ51380		<0.005	0.36	1.50	69	0.08	16.45	188	1.7
ZZ51381		0.009	0.43	0.79	69	0.10	4.03	179	0.9
ZZ51382		0.010	0.18	0.46	55	0.10	2.58	114	<0.5
ZZ51383		<0.005	0.23	1.65	51	0.06	12.95	150	1.4
ZZ51384		<0.005	0.27	0.95	58	0.05	16.80	145	1.2
ZZ51385		0.007	0.32	0.40	83	0.10	2.80	215	0.9
ZZ51386		<0.005	0.26	0.96	58	<0.05	8.17	322	1.2
ZZ51387		<0.005	0.27	1.46	39	0.05	16.45	152	1.6
ZZ51388		<0.005	0.35	1.15	50	0.08	14.00	145	0.9
ZZ51389		0.014	0.26	0.38	72	0.22	1.65	100	<0.5
ZZ51390		0.008	0.35	1.47	47	0.12	12.20	144	1.2
ZZ51391		0.006	0.29	1.01	50	0.09	10.50	131	0.8
ZZ51392		<0.005	0.28	1.11	57	0.05	8.76	221	0.8
ZZ51393		0.012	0.20	1.39	58	0.18	22.2	103	1.6
ZZ51394		<0.005	0.11	0.52	17	<0.05	9.17	109	<0.5
ZZ51395		0.007	0.33	1.10	50	0.11	8.76	133	0.7
ZZ51396		0.005	0.24	0.97	37	0.07	12.60	134	1.6
ZZ51397		<0.005	0.19	1.07	37	0.07	10.35	107	1.2
ZZ51398		<0.005	0.22	1.21	32	0.05	7.47	96	0.8
ZZ51399		0.005	0.13	0.58	33	0.05	5.79	94	1.0
ZZ51400		0.005	0.16	0.72	36	0.07	4.38	112	1.0
ZZ51401		0.005	0.21	1.31	37	0.07	16.70	160	1.4
ZZ51402		<0.005	0.29	1.23	41	0.05	16.75	110	1.4
ZZ51403		0.012	0.17	0.75	44	0.19	5.36	75	<0.5
ZZ51404		0.007	0.20	0.41	56	0.12	2.85	90	0.5
ZZ51405		0.016	0.15	1.36	57	0.17	24.5	84	0.9
ZZ51406		0.010	0.14	1.09	42	0.12	29.7	176	1.2
ZZ51407		0.008	0.23	3.85	44	0.13	30.4	167	2.9
ZZ51408		0.029	0.18	1.02	59	0.39	7.07	81	0.5
ZZ51409		0.019	0.22	1.04	61	0.22	8.03	121	0.8
ZZ51410		0.015	0.17	1.37	57	0.34	9.49	77	0.7
ZZ51411		0.005	0.24	0.90	59	0.10	9.15	135	1.9
ZZ51412		0.006	0.19	0.46	70	0.11	3.54	116	0.7



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**CERTIFICATE OF ANALYSIS WH12186537**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ51413		0.17	0.003	0.18	2.16	108.5	<0.2	<10	370	0.81	0.25	0.36	0.47	32.7	17.8	32
ZZ51414		0.23	0.003	0.15	1.83	81.4	<0.2	<10	500	0.58	0.24	0.42	0.21	26.7	15.4	29
ZZ51415		0.19	0.003	0.11	1.71	64.2	<0.2	<10	410	0.80	0.27	0.37	0.39	30.4	20.1	28
ZZ51416		0.25	0.005	0.51	1.58	36.8	<0.2	<10	560	0.82	0.23	0.78	0.48	23.6	11.4	28
ZZ51417		0.22	0.003	0.34	1.66	61.1	<0.2	<10	510	0.64	0.23	0.73	0.46	30.2	11.7	31
ZZ51418		0.18	0.003	0.15	1.46	29.3	<0.2	<10	590	0.46	0.24	1.21	0.47	21.1	11.0	25
ZZ51419		0.19	0.003	0.27	1.90	24.4	<0.2	<10	330	0.85	0.26	0.33	0.52	34.8	18.0	30
ZZ49325		0.24	0.003	0.29	0.65	13.9	<0.2	<10	220	0.52	0.17	0.94	0.67	9.40	6.7	13
ZZ49326		0.21	0.004	0.51	0.97	15.0	<0.2	<10	270	0.64	0.23	0.98	0.96	13.90	7.9	17
ZZ49327		0.17	0.004	0.40	1.14	17.6	<0.2	<10	540	0.50	0.18	1.77	0.90	13.80	10.2	19
ZZ49328		0.23	0.004	0.38	1.36	21.9	<0.2	<10	430	0.63	0.22	1.02	0.61	19.85	12.4	23
ZZ49329		0.19	0.005	0.79	1.29	25.4	<0.2	<10	680	0.68	0.25	0.66	0.76	19.65	12.7	24
ZZ49330		0.14	0.002	0.24	0.51	16.0	<0.2	<10	120	0.11	0.20	0.02	0.23	11.95	2.7	11
ZZ49331		0.21	<0.001	0.23	0.99	19.3	<0.2	<10	80	0.26	0.21	0.01	0.21	13.45	7.4	15
ZZ49332		0.18	0.002	0.20	1.54	23.8	<0.2	<10	110	0.42	0.25	0.04	0.24	17.75	8.9	27
ZZ49333		0.16	0.007	0.97	1.05	14.5	<0.2	<10	390	0.50	0.25	0.46	0.38	18.25	8.2	20
ZZ49334		0.19	0.002	0.10	1.40	18.0	<0.2	<10	130	0.40	0.24	0.03	0.39	19.40	8.2	22
ZZ49335		0.21	0.004	0.35	1.50	18.5	<0.2	<10	480	0.82	0.23	0.62	0.55	23.2	13.3	25
ZZ49336		0.17	0.004	0.06	0.47	12.7	<0.2	<10	290	0.44	0.22	0.09	0.73	6.47	10.5	7
ZZ49337		0.16	0.002	0.21	1.09	15.7	<0.2	<10	290	0.41	0.21	0.92	0.40	13.50	8.1	19
ZZ49338		0.16	0.002	0.20	1.25	16.5	<0.2	<10	350	0.59	0.20	1.00	0.39	16.20	10.9	20
ZZ49339		0.26	0.002	0.06	1.28	15.7	<0.2	<10	180	0.49	0.26	0.07	0.37	15.75	10.3	19
ZZ49340		0.26	0.002	0.22	1.73	24.7	<0.2	<10	350	0.72	0.25	0.10	0.51	24.2	14.7	26
ZZ49341		0.17	0.009	0.80	0.94	10.2	<0.2	<10	500	0.74	0.24	0.29	1.83	24.3	10.9	15
ZZ49342		0.16	0.003	0.43	0.70	10.6	<0.2	<10	400	0.50	0.19	0.40	1.37	17.25	7.9	14
ZZ49343		0.22	0.009	0.99	1.09	6.5	<0.2	<10	960	0.62	0.20	0.51	1.40	16.10	8.3	16
ZZ49344		0.15	0.005	0.30	1.03	13.8	<0.2	<10	270	0.54	0.23	0.08	0.83	20.6	11.5	17
ZZ49345		0.20	0.004	1.62	1.25	14.5	<0.2	<10	380	0.44	0.25	0.07	0.53	17.95	7.0	20
ZZ49346		0.18	0.002	0.42	0.70	9.7	<0.2	<10	130	0.24	0.21	0.03	0.26	9.58	6.2	12
ZZ49347		0.12	0.004	0.77	1.46	16.8	<0.2	<10	90	0.36	0.25	0.05	0.42	17.35	7.1	25
ZZ49348		0.20	0.003	0.18	0.83	14.1	<0.2	<10	110	0.41	0.30	0.04	0.49	9.34	12.8	16
ZZ49349		0.21	0.007	0.49	1.70	15.7	<0.2	<10	190	0.73	0.29	0.14	0.72	29.8	12.4	28
ZZ49350		0.16	0.002	0.34	1.66	72.8	<0.2	<10	330	0.81	0.24	1.46	0.60	21.5	10.5	31
ZZ49351		0.22	0.005	0.30	0.69	12.9	<0.2	<10	380	0.51	0.23	0.22	1.03	23.0	11.1	14
ZZ49352		0.16	0.002	0.31	1.56	12.0	<0.2	<10	300	0.97	0.32	0.16	0.74	11.50	17.5	27
ZZ49353		0.21	0.004	0.60	1.31	9.7	<0.2	<10	450	0.63	0.25	0.40	0.93	13.40	24.1	22
ZZ49354		0.24	0.001	0.15	1.15	12.3	<0.2	<10	210	0.48	0.28	0.14	0.29	15.25	8.3	19
ZZ49355		0.16	0.019	0.81	1.74	19.1	<0.2	<10	370	1.06	0.17	3.90	0.87	11.90	10.1	24
ZZ49356		0.22	0.001	0.13	1.60	22.8	<0.2	<10	230	0.87	0.25	0.76	0.22	14.45	15.0	24
ZZ49357		0.22	0.002	0.25	1.45	14.0	<0.2	<10	280	0.76	0.25	0.60	0.69	11.80	12.4	23



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ51413		1.74	46.8	4.52	5.60	0.10	0.08	0.11	0.037	0.10	14.5	27.1	0.80	698	2.04	0.01
ZZ51414		1.31	36.9	4.06	5.70	0.10	0.06	0.11	0.032	0.06	12.1	25.4	0.68	786	1.38	0.01
ZZ51415		1.33	60.2	4.72	5.07	0.10	0.06	0.07	0.036	0.08	12.5	22.9	0.71	976	1.67	<0.01
ZZ51416		1.38	61.6	3.57	4.55	0.09	0.07	0.24	0.033	0.08	15.0	22.4	0.60	358	1.71	0.01
ZZ51417		1.13	39.3	3.02	5.19	0.09	0.06	0.20	0.028	0.07	15.8	18.6	0.59	387	1.35	0.01
ZZ51418		1.00	23.4	2.69	5.10	0.06	0.04	0.10	0.026	0.05	10.0	16.3	0.44	590	1.07	0.01
ZZ51419		1.48	49.7	4.26	4.96	0.10	0.06	0.11	0.032	0.08	14.3	22.8	0.70	694	1.41	0.01
ZZ49325		0.83	26.9	2.37	2.00	0.05	0.05	0.15	0.027	0.07	4.4	9.6	0.33	293	4.69	0.01
ZZ49326		1.19	44.6	2.57	2.92	0.07	0.06	0.26	0.035	0.09	6.8	14.5	0.40	374	4.33	0.01
ZZ49327		0.90	39.4	2.67	3.50	0.06	0.05	0.20	0.027	0.07	6.5	13.8	0.43	1600	3.09	0.01
ZZ49328		1.11	49.5	3.41	3.83	0.08	0.07	0.19	0.030	0.08	8.9	18.0	0.57	482	2.68	0.01
ZZ49329		1.36	55.6	3.58	4.09	0.09	0.05	0.32	0.039	0.09	9.5	18.0	0.46	391	7.83	0.01
ZZ49330		0.91	13.1	1.66	3.94	0.05	<0.02	0.02	0.015	0.07	5.9	1.4	0.03	67	11.30	<0.01
ZZ49331		1.01	27.7	3.55	3.85	0.06	0.02	0.04	0.026	0.06	6.4	8.4	0.21	130	5.07	<0.01
ZZ49332		1.11	25.6	4.43	5.12	0.07	0.04	0.07	0.030	0.06	8.3	21.7	0.37	232	3.34	<0.01
ZZ49333		1.76	36.1	2.81	3.55	0.07	0.03	0.22	0.034	0.08	8.8	14.9	0.31	318	5.42	0.01
ZZ49334		1.18	28.2	3.70	5.76	0.07	0.02	0.04	0.031	0.06	9.5	14.3	0.33	256	2.55	0.01
ZZ49335		1.20	51.5	3.50	4.45	0.10	0.06	0.20	0.040	0.10	10.6	19.9	0.53	410	3.07	0.01
ZZ49336		0.92	57.9	3.58	1.64	0.06	<0.02	0.05	0.038	0.08	2.9	2.9	0.05	207	4.81	<0.01
ZZ49337		0.82	26.8	2.74	3.53	0.05	0.04	0.33	0.028	0.08	6.4	17.5	0.42	233	1.95	0.01
ZZ49338		1.01	30.8	3.04	4.12	0.07	0.04	0.08	0.030	0.08	7.4	21.3	0.41	335	1.93	0.01
ZZ49339		1.09	35.8	4.32	3.75	0.07	0.02	0.03	0.038	0.08	6.9	17.1	0.28	342	2.69	<0.01
ZZ49340		1.39	47.9	4.34	5.04	0.09	0.03	0.08	0.038	0.09	11.0	29.1	0.57	462	3.05	<0.01
ZZ49341		1.43	50.3	4.31	2.47	0.11	0.06	0.27	0.038	0.10	9.6	12.9	0.21	533	2.87	0.01
ZZ49342		1.26	41.8	2.45	2.23	0.07	0.04	0.14	0.031	0.10	7.3	8.5	0.17	256	3.04	0.01
ZZ49343		0.87	42.5	2.00	3.32	0.08	0.07	0.34	0.033	0.09	6.5	9.4	0.17	374	0.89	0.01
ZZ49344		1.29	47.1	3.15	3.16	0.08	0.03	0.09	0.036	0.09	8.9	9.7	0.21	341	3.75	<0.01
ZZ49345		1.54	32.1	2.88	4.41	0.07	0.02	0.14	0.032	0.08	8.3	8.0	0.19	167	2.94	0.01
ZZ49346		1.47	33.7	2.00	3.15	<0.05	<0.02	0.06	0.028	0.07	4.6	3.8	0.08	116	2.89	<0.01
ZZ49347		1.54	20.0	3.88	4.89	<0.05	0.04	0.05	0.034	0.07	8.7	21.1	0.33	240	2.58	0.01
ZZ49348		2.17	53.7	3.12	3.66	<0.05	0.02	0.03	0.046	0.07	4.5	7.6	0.16	172	5.05	<0.01
ZZ49349		2.22	30.7	3.27	4.83	0.06	0.07	0.10	0.035	0.09	13.4	20.4	0.46	428	2.77	0.01
ZZ49350		1.73	27.2	3.24	4.75	<0.05	0.04	0.36	0.033	0.07	16.7	16.6	0.42	425	1.35	0.01
ZZ49351		1.59	37.8	2.61	2.34	<0.05	<0.02	0.08	0.030	0.07	10.8	10.3	0.18	392	3.25	0.01
ZZ49352		3.02	35.3	3.90	5.03	<0.05	0.03	0.08	0.042	0.10	4.1	39.0	0.48	373	2.01	0.01
ZZ49353		1.58	27.8	2.67	4.08	<0.05	0.04	0.13	0.031	0.09	5.4	23.2	0.35	1240	1.86	0.01
ZZ49354		2.11	20.6	2.42	4.96	<0.05	<0.02	0.05	0.021	0.07	7.1	11.9	0.23	283	2.35	<0.01
ZZ49355		1.39	50.1	2.65	3.58	0.05	0.10	0.37	0.029	0.10	12.5	16.3	0.27	558	2.27	0.02
ZZ49356		0.90	26.9	3.46	4.90	<0.05	0.05	0.09	0.033	0.07	6.1	31.0	0.45	413	2.99	0.01
ZZ49357		1.28	25.5	3.52	4.53	<0.05	0.05	0.13	0.035	0.08	4.8	30.0	0.43	469	2.38	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ51413		0.23	46.5	600	28.7	10.6	<0.001	0.04	0.62	5.4	1.3	0.4	28.5	<0.01	0.09	4.0
ZZ51414		0.36	32.5	710	16.6	9.2	<0.001	0.04	0.65	4.6	1.2	0.5	24.1	<0.01	0.10	2.9
ZZ51415		0.18	41.3	510	22.5	7.4	<0.001	0.03	0.73	5.4	1.1	0.5	24.8	<0.01	0.10	3.9
ZZ51416		0.38	39.4	640	16.0	8.1	<0.001	0.05	0.89	6.6	1.7	0.7	35.7	<0.01	0.08	2.5
ZZ51417		0.77	31.3	930	13.1	8.7	0.001	0.06	0.72	4.9	1.3	0.7	33.1	<0.01	0.07	2.2
ZZ51418		0.72	21.6	680	15.2	8.3	<0.001	0.08	0.50	3.7	1.3	0.7	45.4	<0.01	0.08	1.4
ZZ51419		0.41	41.4	690	21.0	9.1	<0.001	0.04	0.75	5.7	1.3	0.6	24.9	<0.01	0.10	3.9
ZZ49325		0.14	26.1	610	13.6	5.6	0.006	0.12	1.35	3.3	2.8	0.5	50.2	<0.01	0.06	1.7
ZZ49326		0.21	34.5	690	16.7	8.1	0.006	0.09	1.32	4.4	2.6	0.5	58.5	<0.01	0.09	2.1
ZZ49327		0.29	30.9	710	13.0	7.6	0.005	0.10	1.09	3.7	2.2	0.5	60.3	<0.01	0.12	1.4
ZZ49328		0.27	34.4	630	16.8	7.3	0.001	0.06	1.21	5.1	1.9	0.5	43.6	<0.01	0.08	2.5
ZZ49329		0.31	46.6	640	20.1	8.3	0.002	0.05	1.97	5.9	3.0	0.7	39.3	<0.01	0.10	3.5
ZZ49330		0.42	16.0	260	13.1	11.3	<0.001	0.11	1.74	1.1	2.2	0.8	17.1	<0.01	0.09	0.7
ZZ49331		0.33	23.5	230	15.8	9.7	<0.001	0.04	1.48	2.6	1.2	0.6	10.2	<0.01	0.08	2.2
ZZ49332		0.51	29.2	320	19.9	10.0	<0.001	0.04	1.06	3.1	1.1	0.7	12.5	<0.01	0.09	2.8
ZZ49333		0.48	29.2	840	17.9	10.3	0.001	0.06	1.74	3.3	1.6	0.7	38.3	<0.01	0.09	2.3
ZZ49334		0.50	24.0	390	19.2	9.3	<0.001	0.04	0.90	3.0	0.7	0.7	11.7	<0.01	0.08	2.5
ZZ49335		0.24	38.7	740	16.9	9.4	0.001	0.05	1.03	6.3	1.7	0.6	41.2	<0.01	0.08	2.9
ZZ49336		0.11	54.6	890	20.4	9.2	0.001	0.04	3.58	3.1	2.3	0.6	19.9	<0.01	0.07	1.6
ZZ49337		0.31	25.0	520	14.1	8.2	<0.001	0.05	0.94	3.3	1.3	0.5	48.9	<0.01	0.07	2.2
ZZ49338		0.33	27.9	490	15.3	9.4	0.001	0.06	0.80	3.8	1.9	0.6	52.6	<0.01	0.08	1.9
ZZ49339		0.22	29.0	520	21.4	12.0	<0.001	0.03	1.27	3.1	1.1	0.5	9.8	<0.01	0.07	2.3
ZZ49340		0.21	40.8	430	21.6	10.2	<0.001	0.03	1.19	4.3	1.3	0.5	15.5	<0.01	0.09	3.2
ZZ49341		0.23	45.5	980	16.4	9.3	0.001	0.06	2.00	5.3	2.8	0.5	24.5	<0.01	0.07	3.5
ZZ49342		0.24	39.7	910	12.3	8.2	0.001	0.07	2.16	3.4	2.9	0.6	28.5	<0.01	0.07	1.8
ZZ49343		0.36	44.7	970	13.3	9.8	0.001	0.11	0.96	4.0	5.8	0.6	37.8	<0.01	0.06	1.9
ZZ49344		0.34	47.3	1060	16.6	9.4	0.001	0.04	2.40	3.2	2.4	0.7	13.9	<0.01	0.09	1.8
ZZ49345		0.47	31.3	830	15.8	12.6	<0.001	0.05	1.83	2.1	1.6	0.7	11.2	<0.01	0.08	0.9
ZZ49346		0.29	26.8	660	13.2	10.7	0.001	0.01	1.72	1.5	1.4	0.5	7.4	<0.01	0.03	0.7
ZZ49347		1.16	22.5	660	19.3	13.4	<0.001	0.02	1.33	2.6	1.2	0.7	8.5	<0.01	0.04	2.9
ZZ49348		0.30	53.5	850	21.1	11.1	<0.001	0.01	3.80	2.8	2.4	0.7	12.8	<0.01	0.07	1.2
ZZ49349		1.02	37.9	880	18.8	12.6	0.001	0.01	1.66	4.1	2.1	0.6	16.4	<0.01	0.04	5.0
ZZ49350		0.57	32.4	980	18.2	9.6	<0.001	0.04	0.70	4.6	1.3	0.6	28.5	<0.01	0.05	1.4
ZZ49351		0.41	37.8	820	17.0	7.3	0.001	0.02	2.06	3.2	3.1	0.8	18.7	<0.01	0.04	2.5
ZZ49352		0.18	50.1	740	25.1	11.8	0.001	0.06	1.19	5.5	1.6	0.8	34.0	<0.01	0.06	3.1
ZZ49353		0.33	33.4	920	15.5	12.2	<0.001	0.04	0.90	4.8	2.9	0.7	33.9	<0.01	0.04	2.3
ZZ49354		0.47	23.7	570	14.6	12.9	<0.001	0.02	0.70	2.5	1.1	0.8	13.8	<0.01	0.02	1.0
ZZ49355		0.30	56.9	1070	12.3	10.0	0.001	0.13	1.11	4.8	3.2	0.7	52.0	<0.01	0.05	1.0
ZZ49356		0.29	36.6	830	17.4	8.9	0.002	0.02	0.74	4.8	1.6	0.5	22.6	<0.01	0.05	2.4
ZZ49357		0.28	41.5	790	15.4	11.1	0.002	0.03	0.85	4.8	2.6	0.6	30.5	<0.01	0.05	2.2

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ51413		<0.005	0.27	0.87	52	0.20	10.85	127	2.4
ZZ51414		0.008	0.13	1.44	57	0.12	7.82	94	1.5
ZZ51415		0.005	0.15	0.65	54	0.14	9.03	105	2.4
ZZ51416		0.009	0.14	1.23	53	0.15	21.3	117	1.8
ZZ51417		0.027	0.14	1.58	49	0.22	14.25	94	1.3
ZZ51418		0.018	0.11	1.29	48	0.17	6.99	68	1.1
ZZ51419		0.010	0.14	0.95	54	0.15	11.00	207	1.8
ZZ49325		<0.005	0.26	0.83	41	0.05	7.65	99	1.5
ZZ49326		<0.005	0.35	1.06	43	0.08	11.50	120	2.1
ZZ49327		0.006	0.17	1.09	42	0.08	8.87	124	1.6
ZZ49328		0.006	0.17	1.00	49	0.08	10.05	125	2.1
ZZ49329		0.006	0.38	1.10	66	0.14	13.65	151	1.7
ZZ49330		0.009	0.57	0.37	92	0.13	1.75	75	<0.5
ZZ49331		<0.005	0.27	0.36	62	0.05	2.39	114	1.2
ZZ49332		0.005	0.17	0.47	78	0.09	3.00	119	1.7
ZZ49333		0.011	0.45	1.09	55	0.11	7.87	128	0.6
ZZ49334		0.007	0.22	0.43	64	0.10	2.80	93	0.7
ZZ49335		<0.005	0.24	1.72	54	0.07	15.80	111	1.8
ZZ49336		<0.005	0.28	0.82	39	<0.05	5.58	335	<0.5
ZZ49337		0.006	0.16	0.85	46	0.07	4.45	122	1.2
ZZ49338		0.006	0.15	1.16	44	0.09	6.10	97	1.2
ZZ49339		<0.005	0.20	0.65	53	0.05	4.22	162	0.8
ZZ49340		<0.005	0.22	0.64	57	0.07	7.82	133	0.8
ZZ49341		<0.005	0.35	1.30	44	0.06	19.15	205	1.3
ZZ49342		0.006	0.28	1.17	39	0.07	11.25	207	1.1
ZZ49343		0.005	0.25	1.23	42	0.06	13.45	79	2.0
ZZ49344		0.007	0.29	0.97	53	0.11	10.85	240	0.6
ZZ49345		0.008	0.34	0.83	68	0.13	6.82	169	<0.5
ZZ49346		0.007	0.26	0.51	46	0.11	2.27	174	<0.5
ZZ49347		0.021	0.23	0.58	57	0.26	2.70	112	1.2
ZZ49348		0.007	0.33	0.65	57	0.09	3.80	355	0.6
ZZ49349		0.025	0.36	1.08	55	0.26	9.30	153	1.5
ZZ49350		0.011	0.18	1.21	50	0.15	24.3	121	1.1
ZZ49351		0.012	0.23	0.97	38	0.17	10.65	185	<0.5
ZZ49352		<0.005	0.28	0.83	34	<0.05	8.04	166	0.8
ZZ49353		0.006	0.22	0.88	37	0.09	7.73	128	1.0
ZZ49354		0.010	0.22	0.67	43	0.15	4.49	82	<0.5
ZZ49355		<0.005	0.32	6.85	44	0.07	41.7	134	2.8
ZZ49356		<0.005	0.12	2.02	41	0.08	8.76	110	1.2
ZZ49357		<0.005	0.20	1.27	39	0.07	9.89	137	1.3



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**CERTIFICATE OF ANALYSIS WH12186537**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ49358		0.31	0.004	0.06	1.20	11.4	<0.2	<10	160	0.56	0.25	0.18	0.23	19.45	7.9	21
ZZ49359		0.20	0.008	0.66	1.67	19.2	<0.2	<10	590	0.88	0.25	0.59	1.73	13.65	20.1	24
ZZ49360		0.15	0.002	0.03	1.46	11.5	<0.2	<10	130	0.33	0.28	0.31	0.16	22.5	4.6	21
ZZ49361		0.13	0.001	0.05	1.37	23.0	<0.2	<10	120	0.19	0.26	0.10	0.12	24.5	3.1	17
ZZ49362		0.10	0.001	0.02	1.11	21.0	<0.2	<10	70	0.13	0.27	0.04	0.07	26.7	2.7	17
ZZ49363		0.08	0.004	0.15	1.15	86.0	<0.2	<10	80	0.18	0.25	0.07	0.08	22.1	3.6	21
ZZ49364		0.21	0.002	0.07	1.33	35.5	<0.2	<10	70	0.23	0.29	0.06	0.16	24.0	4.6	25
ZZ49365		0.14	0.001	0.07	1.39	125.0	<0.2	<10	80	0.19	0.41	0.05	0.18	27.9	4.2	20
ZZ49366		0.21	0.004	0.19	2.18	99.5	<0.2	<10	200	0.99	0.29	0.13	0.39	31.9	23.8	32
ZZ49367		0.19	0.003	0.14	2.13	381	<0.2	<10	330	0.87	0.26	0.14	0.42	32.8	16.5	33
ZZ49368		0.16	0.004	0.13	2.48	246	<0.2	<10	360	1.01	0.25	0.15	0.56	33.6	25.0	35
ZZ49369		0.25	0.003	0.14	2.46	64.4	<0.2	<10	260	1.24	0.28	0.08	0.40	37.0	24.1	36
ZZ49370		0.14	0.002	0.05	1.37	28.1	<0.2	<10	230	0.30	0.27	0.12	0.25	22.3	7.4	24

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ49358		2.14	19.1	2.85	4.37	<0.05	<0.02	0.03	0.022	0.06	9.3	25.6	0.34	237	1.56	0.01
ZZ49359		1.69	29.0	5.49	4.42	<0.05	0.09	0.30	0.035	0.08	6.0	28.6	0.45	2200	3.06	0.01
ZZ49360		1.53	7.6	2.50	6.26	<0.05	0.02	0.02	0.022	0.04	12.0	13.2	0.25	144	1.56	0.01
ZZ49361		1.35	7.8	1.75	7.50	<0.05	0.03	0.03	0.018	0.03	12.3	9.3	0.17	104	1.32	<0.01
ZZ49362		1.48	7.4	1.97	7.33	<0.05	<0.02	0.01	0.015	0.03	13.2	6.0	0.17	133	1.32	<0.01
ZZ49363		1.17	10.2	2.13	6.47	<0.05	<0.02	0.11	0.018	0.03	10.8	9.4	0.22	109	1.57	0.01
ZZ49364		1.68	9.4	3.15	6.78	<0.05	0.03	0.05	0.023	0.04	12.3	13.9	0.28	182	1.66	<0.01
ZZ49365		2.18	7.9	3.18	8.32	<0.05	0.02	0.07	0.020	0.04	14.3	9.9	0.19	221	2.06	<0.01
ZZ49366		1.42	72.6	4.48	5.32	<0.05	0.07	0.11	0.037	0.08	13.8	32.2	0.75	870	1.40	0.01
ZZ49367		2.64	41.3	4.03	5.62	<0.05	0.05	0.12	0.038	0.09	12.9	32.0	0.61	817	1.40	0.01
ZZ49368		2.58	50.7	4.63	5.68	0.05	0.09	0.11	0.048	0.09	13.6	31.3	0.63	984	2.05	0.01
ZZ49369		2.06	77.4	4.69	6.39	0.06	0.06	0.17	0.040	0.09	18.0	33.8	0.87	775	1.67	0.01
ZZ49370		1.10	16.1	3.47	6.74	<0.05	<0.02	0.03	0.029	0.06	11.2	16.0	0.36	278	1.53	<0.01

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ49358		0.55	24.7	620	14.8	10.0	<0.001	<0.01	0.55	3.1	0.9	0.6	16.0	<0.01	0.03	2.3
ZZ49359		0.21	43.2	1040	15.5	12.6	0.003	0.05	0.86	5.2	6.1	0.7	39.8	<0.01	0.06	2.4
ZZ49360		1.11	12.5	250	13.5	13.2	<0.001	<0.01	0.44	2.3	0.2	0.8	11.0	<0.01	0.03	3.0
ZZ49361		0.95	8.4	190	12.5	8.4	<0.001	<0.01	0.37	2.4	0.6	1.0	8.3	<0.01	0.03	2.7
ZZ49362		1.19	7.7	260	11.9	8.0	<0.001	<0.01	0.44	1.8	0.3	1.0	6.4	<0.01	0.02	2.1
ZZ49363		1.22	11.5	360	12.3	5.6	<0.001	0.01	0.60	2.1	0.7	0.9	9.2	<0.01	0.03	2.5
ZZ49364		1.69	13.1	320	15.6	9.9	<0.001	<0.01	0.67	2.4	0.5	0.8	7.8	<0.01	0.04	3.5
ZZ49365		2.14	9.6	350	19.7	9.5	0.001	<0.01	0.72	2.1	0.5	1.0	7.2	0.01	0.05	3.5
ZZ49366		0.24	41.3	830	23.5	10.5	<0.001	0.01	0.71	6.1	1.2	0.5	16.0	<0.01	0.08	4.2
ZZ49367		0.52	36.3	660	20.8	13.5	<0.001	0.01	0.58	5.1	1.0	0.6	17.0	<0.01	0.06	2.7
ZZ49368		0.51	46.6	870	28.1	12.7	<0.001	0.01	0.85	6.3	1.5	0.6	17.8	<0.01	0.08	3.8
ZZ49369		0.15	45.9	430	23.2	11.1	<0.001	<0.01	0.75	7.3	1.3	0.5	13.5	<0.01	0.08	4.2
ZZ49370		0.67	17.4	290	18.2	10.2	<0.001	<0.01	0.51	2.8	0.6	0.7	10.7	<0.01	0.05	2.0

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ49358		0.014	0.15	0.70	39	0.19	6.70	86	<0.5
ZZ49359		<0.005	0.24	1.24	48	<0.05	9.92	169	2.1
ZZ49360		0.024	0.17	0.54	60	0.27	3.33	54	0.6
ZZ49361		0.020	0.18	0.45	66	0.23	2.64	43	0.6
ZZ49362		0.028	0.20	0.40	57	0.24	1.94	31	<0.5
ZZ49363		0.027	0.20	0.57	51	0.29	2.61	37	0.5
ZZ49364		0.038	0.19	0.55	60	0.29	2.48	46	1.0
ZZ49365		0.050	0.52	0.53	81	0.36	2.27	49	1.1
ZZ49366		0.005	0.20	0.79	53	0.07	8.43	113	2.1
ZZ49367		0.011	0.41	0.90	55	0.16	10.85	114	1.2
ZZ49368		0.009	0.28	1.00	58	0.15	9.33	135	2.7
ZZ49369		<0.005	0.23	0.74	81	0.21	11.65	120	2.0
ZZ49370		0.016	0.14	0.49	72	0.21	3.29	73	<0.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area

**CERTIFICATE OF ANALYSIS WH12186537**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12188092**

Project: ATAC- Regional Area B  
 P.O. No.: R21  
 This report is for 175 Rock samples submitted to our lab in Whitehorse, YT, Canada on 12- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
As- OG62	Ore Grade As - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Sb- XRF10	Fusion XRF - Sb Ore Grade	XRF
ME- XRF10	Fusion XRF - Ore Grade	XRF
OA- GRA06	LOI for ME- XRF06	WST- SIM
Sb- AA08	Sb - KClO3/ HCl digestion AA	AAS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843658		0.83	0.01	0.95	4.91	1770	1270	2.13	0.19	0.10	6.54	48.9	9.4	113	11.40	53.4
L843659		1.47	0.01	0.74	5.36	2040	1370	2.33	0.19	0.13	10.00	56.3	13.1	97	13.00	58.3
L843660		1.29	0.02	1.47	5.03	2100	2280	2.33	0.17	0.32	10.20	49.3	10.2	120	11.20	82.6
L843661		1.02	<0.01	0.33	6.02	271	1260	1.76	0.21	8.16	2.39	58.8	15.3	53	6.02	42.6
L843662		0.60	<0.01	0.33	5.39	238	910	1.42	0.19	10.60	2.83	53.4	12.4	49	5.83	32.1
L843663		0.28	<0.01	0.06	2.00	17.8	470	0.48	0.08	0.35	0.27	42.9	8.6	15	1.04	5.6
L843664		0.29	<0.01	0.15	0.11	35	50	0.09	<0.01	35.0	0.39	2.84	0.9	1	0.17	1.2
L843665		0.27	0.01	0.16	7.48	79.8	760	1.67	0.19	2.57	14.40	44.8	39.0	84	3.27	156.5
L843666		0.59	<0.01	0.05	0.08	28	330	0.08	<0.01	33.0	2.17	2.64	0.8	1	0.08	1.3
L843729		0.52	0.01	0.98	4.88	1940	1240	1.86	0.18	0.18	8.07	47.9	8.7	99	11.60	46.1
L843730		1.61	0.01	1.40	4.75	1545	1980	2.06	0.17	0.33	10.25	49.4	10.5	98	10.95	73.0
L843731		1.48	0.27	2.88	2.33	1360	680	1.15	0.07	20.5	34.8	33.3	13.0	34	4.24	26.6
L843732		1.16	0.05	1.37	0.19	193	230	0.17	0.01	29.9	12.90	8.58	1.4	5	0.47	4.3
L843733		1.35	0.04	1.31	0.13	752	120	0.11	<0.01	26.7	37.0	3.67	1.7	3	0.27	3.1
L843734		1.46	0.03	0.97	0.11	184	80	0.11	<0.01	27.9	29.8	4.76	1.4	3	0.23	2.8
L843735		0.53	0.03	0.82	0.46	244	170	0.20	0.02	26.2	33.4	7.50	2.0	8	0.95	6.8
L843736		0.58	0.21	3.57	5.39	2000	940	1.95	0.20	2.81	21.7	61.2	15.3	84	8.97	41.1
L843737		1.15	0.48	1.60	0.83	713	310	0.35	0.03	28.9	18.75	13.05	2.8	15	1.35	9.9
L843738		1.37	0.34	2.75	0.23	831	200	0.09	0.01	29.2	30.0	9.24	1.9	10	0.58	8.1
L843739		1.18	0.07	0.92	0.10	515	90	0.09	0.01	32.0	43.6	4.57	1.1	5	0.31	3.4
L843740		1.52	0.33	3.65	0.79	531	530	0.24	0.03	26.5	25.5	19.50	2.1	27	1.54	18.5
L843741		0.65	0.12	1.91	0.32	177	440	0.19	0.01	30.9	12.70	12.60	0.8	16	0.77	8.9
L843742		0.32	0.21	2.18	0.33	134	260	0.28	0.01	31.7	10.85	8.94	0.7	17	0.57	13.4
L843743		0.12	0.10	1.52	0.16	65	250	0.23	0.01	33.3	5.94	6.89	0.6	9	0.60	4.8
L843744		0.20	0.88	4.96	0.24	1520	450	0.10	0.01	2.81	93.2	6.13	40.5	11	0.36	16.5
L843745		0.34	0.05	1.46	0.06	321	60	0.07	<0.01	33.0	27.7	7.27	1.1	5	0.11	5.7
L843746		0.35	0.05	1.76	0.09	47	120	0.29	<0.01	30.7	19.60	7.53	0.9	5	0.22	4.1
L843747		0.15	0.01	2.21	13.80	>10000	1120	4.36	0.03	0.50	46.8	18.60	13.1	143	1.03	93.4
L843748		0.35	0.01	1.38	13.55	>10000	510	4.23	0.02	0.74	49.0	10.55	14.7	114	3.12	52.8
L843749		0.18	0.01	3.33	1.72	>10000	1790	0.86	0.05	0.25	23.1	37.0	5.0	69	1.58	94.6
L843750		0.60	<0.01	0.13	5.56	1195	180	0.77	0.10	1.29	16.55	28.5	27.9	84	1.01	103.5
L843751		0.25	<0.01	0.04	3.50	129.0	480	0.38	0.06	1.35	0.60	48.2	4.6	18	2.31	13.5
L843752		0.66	<0.01	0.03	0.30	73	190	0.15	0.01	15.10	0.39	4.90	1.3	3	0.20	3.2
L843753		0.31	<0.01	0.11	0.32	43	4700	0.15	0.01	23.9	5.88	5.19	2.2	7	0.18	4.6
L843754		0.47	<0.01	0.34	1.26	59	8410	0.47	0.05	14.05	0.39	13.65	2.4	25	2.23	13.2
L843755		0.50	<0.01	0.89	0.26	13	1090	0.23	0.01	23.2	2.96	3.76	1.8	8	0.33	4.1
L843756		0.54	<0.01	0.22	0.19	14	1180	0.22	0.01	25.0	1.87	2.26	1.7	13	0.15	1.9
L843757		0.24	<0.01	0.29	0.12	6	1470	0.16	<0.01	29.3	2.22	1.56	1.6	5	0.16	3.0
L843758		0.46	<0.01	0.01	0.01	13.5	2870	<0.05	<0.01	0.40	0.19	0.26	<0.1	3	<0.05	2.4
L843759		0.17	0.01	0.04	0.16	50	2450	0.12	0.01	26.4	0.24	1.82	1.4	9	0.19	2.6

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 Account: RCM

Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843658		4.42	12.75	0.14	2.1	0.45	0.048	1.57	34.7	19.5	0.34	201	14.55	0.08	12.0	188.0
L843659		3.83	13.40	0.15	2.3	0.73	0.051	1.82	34.7	22.5	0.40	304	14.00	0.09	14.0	150.5
L843660		3.34	12.50	0.15	2.1	1.00	0.047	1.66	33.7	20.4	0.36	170	11.25	0.07	11.6	164.5
L843661		4.02	15.35	0.16	2.2	0.42	0.052	2.01	31.5	43.5	2.93	763	2.45	0.33	11.0	51.1
L843662		3.20	13.15	0.09	2.0	0.34	0.042	1.85	29.4	30.9	3.70	646	3.32	0.30	10.0	53.8
L843663		2.86	5.05	0.08	1.7	0.04	0.031	0.39	17.3	26.7	0.28	1580	0.45	0.20	3.3	12.1
L843664		0.09	0.41	0.19	<0.1	0.02	<0.005	0.04	3.0	0.7	0.25	106	1.47	0.01	0.6	<0.2
L843665		7.87	22.2	0.20	1.8	0.08	0.097	1.92	20.9	142.0	0.59	992	1.00	0.02	11.3	187.0
L843666		0.08	0.31	0.16	<0.1	0.07	<0.005	0.03	2.7	1.1	0.32	71	0.25	0.01	0.5	<0.2
L843729		3.99	13.10	0.11	2.1	0.53	0.049	1.67	33.7	19.1	0.37	153	16.50	0.08	12.9	184.5
L843730		3.40	12.00	0.13	2.1	0.91	0.045	1.63	32.2	18.4	0.38	242	12.45	0.09	12.7	153.5
L843731		1.99	5.17	0.37	0.7	29.7	0.017	0.69	28.0	10.2	5.25	351	23.9	0.06	3.9	128.5
L843732		0.08	0.58	0.30	0.1	7.42	<0.005	0.05	11.8	0.6	4.08	167	1.39	0.01	0.5	1.2
L843733		0.19	0.55	0.46	<0.1	7.56	<0.005	0.04	4.7	0.5	6.28	85	1.94	0.01	0.5	5.4
L843734		0.06	0.57	0.60	<0.1	10.6	<0.005	0.03	5.9	0.4	5.19	87	0.73	0.01	0.5	0.6
L843735		0.33	1.12	0.24	0.2	7.88	<0.005	0.15	7.1	1.5	5.05	79	4.97	0.01	1.3	15.3
L843736		4.28	12.40	0.18	1.9	44.7	0.048	1.40	38.8	21.9	0.46	706	12.15	0.18	10.7	160.0
L843737		0.69	2.11	0.05	0.3	29.7	0.010	0.25	12.6	3.8	0.15	347	6.85	0.03	1.9	25.1
L843738		0.13	0.94	0.15	0.1	95.2	0.010	0.07	12.5	1.9	0.12	167	6.50	<0.01	0.7	42.3
L843739		0.29	0.54	0.10	0.1	32.7	<0.005	0.03	6.6	0.7	0.12	153	2.70	<0.01	0.5	32.1
L843740		0.49	1.88	0.10	0.3	>100	0.010	0.24	22.8	2.6	0.16	177	9.35	0.02	1.7	54.2
L843741		0.15	0.83	0.13	0.2	47.5	<0.005	0.10	17.2	1.1	0.14	194	3.50	0.01	0.8	17.0
L843742		0.12	0.91	0.06	0.2	76.7	<0.005	0.11	10.7	1.7	0.16	195	2.70	0.01	0.8	8.0
L843743		0.03	0.47	0.12	0.1	39.2	<0.005	0.05	9.6	0.9	0.13	220	0.45	<0.01	0.6	<0.2
L843744		1.26	1.68	<0.05	0.1	>100	0.021	0.06	7.7	5.2	0.03	569	1.83	<0.01	0.3	874
L843745		0.19	0.37	0.07	<0.1	27.9	<0.005	0.02	10.2	0.6	0.13	57	2.30	<0.01	0.5	26.1
L843746		0.05	0.49	0.42	0.1	6.41	<0.005	0.03	9.5	0.3	2.65	202	1.09	<0.01	0.5	3.6
L843747		2.10	2.55	0.27	0.5	10.8	0.124	0.25	19.9	5.1	0.06	527	2.00	0.01	1.6	86.9
L843748		2.53	2.57	0.18	0.4	7.6	0.129	0.23	7.4	8.6	0.07	504	2.37	0.01	1.5	99.0
L843749		6.72	2.99	0.13	0.5	33.2	0.028	0.24	51.6	4.6	0.05	269	58.7	0.01	1.3	46.3
L843750		5.68	13.45	0.07	2.2	0.35	0.065	0.42	13.7	42.0	0.31	1140	0.76	0.02	7.0	66.4
L843751		1.07	7.39	0.09	2.3	0.97	0.021	1.90	20.0	9.5	0.66	303	0.66	0.02	4.3	9.3
L843752		0.67	0.63	<0.05	0.1	0.13	<0.005	0.09	2.6	2.4	8.95	633	0.33	0.01	0.6	1.3
L843753		0.50	0.63	<0.05	0.2	0.46	0.008	0.11	3.2	6.2	2.66	176	1.21	0.04	0.9	12.9
L843754		2.46	2.71	<0.05	0.7	0.32	0.012	0.42	9.6	10.5	6.39	370	0.90	0.08	2.3	20.3
L843755		0.25	0.81	0.20	0.1	0.08	0.007	0.09	4.8	3.1	7.59	61	26.4	0.01	0.8	34.2
L843756		0.17	0.81	0.37	0.1	0.06	0.005	0.06	2.8	2.5	7.62	62	9.63	0.01	0.6	18.4
L843757		0.25	0.48	0.21	0.1	0.04	<0.005	0.04	1.4	1.5	3.50	105	7.95	0.01	0.6	21.6
L843758		0.12	0.14	<0.05	<0.1	0.03	<0.005	<0.01	<0.5	0.2	0.04	<5	0.27	0.01	<0.1	1.0
L843759		0.14	0.74	0.36	0.1	0.35	0.011	0.05	1.4	0.6	6.13	417	13.20	0.02	0.6	9.0





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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843658		1510	87.1	92.2	0.003	0.11	8.26	10.3	6	1.4	148.5	0.74	0.11	7.4	0.285	4.25
L843659		1220	93.0	101.0	0.004	0.07	8.31	10.3	6	1.6	109.5	0.89	0.09	8.5	0.308	3.25
L843660		1390	49.2	89.5	0.005	0.11	6.62	11.1	6	1.5	150.5	0.75	0.10	7.4	0.280	3.24
L843661		730	51.4	95.2	<0.002	0.06	2.19	12.8	2	1.8	189.0	0.71	0.05	10.9	0.335	1.37
L843662		600	39.3	86.5	0.002	0.04	2.96	10.9	2	1.6	199.0	0.66	<0.05	9.7	0.294	3.84
L843663		550	43.0	22.2	<0.002	0.03	0.36	4.8	1	0.6	28.2	0.28	<0.05	6.1	0.099	0.21
L843664		180	1.3	2.0	0.003	0.01	0.17	1.1	1	<0.2	229	<0.05	<0.05	0.2	0.005	0.18
L843665		700	9.5	80.7	<0.002	0.05	0.51	31.7	2	2.1	75.1	0.73	0.11	5.7	0.781	0.91
L843666		80	1.1	1.2	<0.002	0.01	0.19	0.3	1	<0.2	214	<0.05	<0.05	<0.2	<0.005	0.07
L843729		1190	141.0	96.0	0.004	0.07	9.56	8.9	5	1.6	133.0	0.79	0.10	6.6	0.295	5.43
L843730		1140	48.6	86.4	0.004	0.09	6.77	10.3	5	1.4	120.0	0.80	0.09	7.5	0.276	3.34
L843731		760	49.9	35.8	<0.002	0.05	82.0	7.9	77	0.6	233	0.23	<0.05	4.4	0.097	8.12
L843732		630	5.5	2.7	<0.002	0.03	5.95	2.5	4	<0.2	242	<0.05	<0.05	0.3	0.006	0.64
L843733		780	3.1	1.9	<0.002	0.03	8.22	1.4	11	<0.2	155.0	<0.05	<0.05	0.3	0.005	1.89
L843734		480	6.8	1.5	<0.002	0.03	2.99	1.1	4	<0.2	171.0	<0.05	<0.05	0.2	0.005	0.73
L843735		330	19.3	7.4	<0.002	0.03	9.98	1.4	11	0.2	175.5	0.06	<0.05	0.8	0.024	0.94
L843736		1180	1120	79.1	0.002	0.07	22.8	10.4	5	1.6	140.5	0.71	0.08	9.0	0.293	5.75
L843737		1120	563	14.4	0.002	0.05	35.2	4.4	2	0.3	161.0	0.10	<0.05	1.5	0.043	2.64
L843738		750	971	3.4	<0.002	0.04	19.30	2.4	3	0.3	203	<0.05	<0.05	0.4	0.009	5.34
L843739		320	156.0	1.3	<0.002	0.01	28.8	2.6	2	<0.2	178.0	<0.05	<0.05	0.2	<0.005	1.24
L843740		1210	358	12.3	0.002	0.05	31.1	3.5	2	0.3	315	0.09	<0.05	1.4	0.038	4.37
L843741		760	47.3	4.6	0.002	0.02	17.95	4.3	2	<0.2	290	<0.05	<0.05	0.6	0.014	2.08
L843742		430	14.7	5.9	0.002	0.04	7.38	6.1	2	<0.2	237	<0.05	<0.05	0.5	0.014	2.43
L843743		710	9.5	2.5	0.002	0.02	1.32	7.2	2	<0.2	231	<0.05	<0.05	0.3	0.006	1.26
L843744		1370	380	2.8	0.004	0.05	70.8	2.2	21	0.4	105.0	<0.05	0.16	0.3	0.006	77.5
L843745		310	28.1	0.8	0.003	0.02	16.85	1.6	2	<0.2	296	<0.05	<0.05	<0.2	<0.005	1.33
L843746		740	3.4	1.1	<0.002	0.01	5.91	5.3	3	<0.2	164.5	<0.05	<0.05	0.2	<0.005	0.50
L843747		8960	127.0	8.6	0.010	0.17	8.56	3.5	3	0.3	209	0.11	0.08	1.1	0.038	4.72
L843748		7830	103.0	8.8	0.012	0.12	6.78	4.1	3	0.2	79.2	0.10	0.07	0.9	0.031	18.20
L843749		3510	66.6	12.7	0.003	0.13	70.6	1.2	8	0.3	964	0.10	0.32	1.8	0.040	213
L843750		560	6.5	20.5	<0.002	0.01	0.52	22.4	3	1.2	27.4	0.48	0.07	3.7	0.749	1.25
L843751		170	14.0	54.6	<0.002	0.06	0.65	3.9	1	0.8	40.2	0.37	<0.05	9.7	0.129	1.41
L843752		280	8.9	2.6	<0.002	0.02	0.11	0.8	1	<0.2	60.3	<0.05	<0.05	0.4	0.015	0.14
L843753		790	7.7	4.4	<0.002	0.17	0.59	1.1	2	0.2	1670	<0.05	<0.05	0.7	0.013	0.25
L843754		1310	3.2	20.3	0.004	0.25	0.56	3.3	4	0.4	923	0.14	<0.05	1.9	0.067	0.33
L843755		160	1.6	4.4	0.103	0.06	1.33	0.9	5	0.3	573	<0.05	<0.05	0.4	0.012	0.25
L843756		90	0.8	2.8	0.059	0.04	0.68	0.7	2	0.2	566	<0.05	<0.05	0.2	0.008	0.19
L843757		70	0.6	1.8	0.061	0.04	0.92	0.7	12	<0.2	844	<0.05	<0.05	0.2	0.005	0.13
L843758		270	<0.5	0.1	<0.002	0.10	0.11	0.5	1	<0.2	97.3	<0.05	<0.05	<0.2	<0.005	0.02
L843759		50	7.2	2.0	0.029	0.10	1.73	7.2	3	0.6	153.0	<0.05	<0.05	0.2	0.006	0.20



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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10	Sb- AA08
		U	V	W	Y	Zn	Zr	Zn	As	Hg	Sb	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.5	0.001	0.001	0.1	0.01	0.01
L843658		6.3	635	1.7	34.2	926	77.3					
L843659		6.4	578	1.6	34.9	851	83.9					
L843660		6.1	560	1.5	47.5	899	75.8					
L843661		3.5	158	1.2	21.3	301	80.3					
L843662		3.5	173	1.1	19.0	591	68.5					
L843663		1.7	19	0.5	16.9	110	54.0					
L843664		4.4	15	0.1	5.5	45	2.1					
L843665		1.4	299	0.8	22.2	1130	63.6					
L843666		4.8	11	<0.1	3.5	41	1.1					
L843729		5.0	707	1.7	30.9	973	75.7					
L843730		5.5	553	1.4	39.2	977	76.8					
L843731		5.9	409	1.9	36.6	1840	28.6					
L843732		7.1	75	0.6	21.4	560	2.9					
L843733		4.9	60	0.3	9.1	336	3.0					
L843734		4.9	33	0.3	7.2	371	2.9					
L843735		3.5	79	0.4	8.2	260	8.5					
L843736		7.9	527	1.8	42.3	2160	69.4					
L843737		11.0	178	0.9	22.2	785	12.2					
L843738		6.9	184	0.7	18.1	4850	5.0					
L843739		5.1	102	0.6	15.3	1060	2.6					
L843740		9.4	297	1.2	26.5	1750	14.2			132.5		
L843741		6.5	198	0.8	26.5	438	8.1					
L843742		5.6	207	0.7	28.2	233	8.2					
L843743		5.8	141	0.7	32.0	88	5.0					
L843744		7.2	214	0.6	24.5	>10000	4.9	12.20		481		
L843745		4.9	74	0.3	13.0	1340	1.4					
L843746		9.0	90	0.8	30.3	148	3.0					
L843747		50.2	712	0.9	81.2	1100	19.4		10.35			
L843748		48.5	722	0.7	72.3	1300	14.6		11.05			
L843749		16.2	2980	1.4	69.8	435	16.1		1.265			
L843750		1.8	229	0.7	18.1	889	73.2					
L843751		1.3	37	0.5	10.4	82	68.8					
L843752		0.8	7	0.1	2.8	75	4.7					
L843753		1.2	38	0.1	7.8	439	8.9					
L843754		2.1	68	1.2	11.5	77	33.2					
L843755		6.1	59	0.1	6.9	158	6.3					
L843756		6.0	45	0.1	4.8	69	4.6					
L843757		2.8	31	0.1	3.5	128	4.3					
L843758		0.4	3	<0.1	3.6	5	<0.5					
L843759		12.6	62	0.6	16.1	29	4.4					



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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843760		0.27	<0.01	0.02	0.09	35	6990	0.11	<0.01	23.1	0.58	1.83	2.2	5	0.09	2.0
L843761		0.19	0.01	3.46	2.52	193.5	1200	1.16	0.17	0.89	6.81	31.4	1.0	148	13.00	31.8
L843762		0.21	<0.01	0.14	0.21	34	540	0.21	0.01	35.5	22.3	3.71	2.2	4	0.88	5.7
L843763		0.47	<0.01	0.04	0.22	60	430	0.11	0.01	34.2	0.23	3.11	1.1	3	0.55	2.9
L843764		0.24	0.02	1.85	0.25	8360	230	0.67	0.01	29.2	35.4	5.53	3.5	14	0.84	19.6
L843765		0.05	0.01	0.29	15.95	>10000	2400	25.8	0.02	0.89	7.33	1.07	19.7	33	0.10	73.3
L843766		0.40	0.01	0.03	0.26	227	100	0.22	0.01	35.3	1.25	2.42	1.6	2	0.39	7.9
L843767		0.35	<0.01	0.01	0.26	135	80	0.44	0.01	34.3	0.32	3.74	1.2	3	0.52	2.0
L843768		0.30	<0.01	<0.01	0.11	24	60	0.09	<0.01	33.7	0.09	2.22	0.9	1	0.13	0.9
L843769		0.50	<0.01	0.03	0.25	118	80	0.12	0.01	33.4	0.74	4.51	1.5	2	0.38	1.9
L843770		1.92	<0.01	0.22	1.23	73	200	0.42	0.05	22.5	1.35	18.15	3.1	16	1.55	6.2
L843771		3.27	0.01	0.07	0.73	118	130	0.28	0.03	28.3	1.36	9.20	2.2	9	2.02	5.5
L843772		2.06	0.01	0.08	0.89	135	160	0.29	0.03	29.0	1.31	11.10	2.4	9	2.57	6.4
L843773		5.06	<0.01	0.03	0.30	68	100	0.14	0.01	32.8	1.03	3.97	1.3	4	0.86	2.8
L843774		0.85	<0.01	0.02	0.03	35	40	0.14	<0.01	24.1	0.46	0.91	1.6	1	0.06	1.0
L843775		0.28	0.01	0.05	0.11	32	60	0.19	<0.01	31.4	0.31	2.06	0.8	1	0.12	1.3
L843776		0.39	0.01	0.09	0.34	44	100	0.27	0.01	29.5	2.22	6.60	1.1	3	0.74	2.2
L843777		1.33	0.15	0.57	6.01	209	900	1.72	0.25	5.35	2.86	86.0	12.2	72	5.89	23.3
L843778		1.35	0.03	0.17	0.85	211	190	0.60	0.04	31.9	1.19	13.10	2.6	10	1.66	6.5
L843779		3.15	0.01	0.06	0.12	27	60	0.13	0.02	37.6	0.43	1.77	0.5	2	0.14	2.9
L843780		0.27	0.01	0.18	0.43	260	50	0.92	0.02	34.6	7.91	3.70	1.9	3	0.63	5.6
L843781		0.36	<0.01	0.04	0.12	81	20	0.34	<0.01	33.9	0.58	2.08	1.0	1	0.26	2.1
L843782		1.38	<0.01	0.19	0.95	102	130	0.31	0.04	29.6	0.86	12.85	2.9	11	1.71	6.4
L843783		2.54	0.01	0.15	0.67	83	110	0.46	0.05	33.9	0.75	7.32	1.5	8	1.03	5.8
L843784		1.61	0.02	0.16	1.04	157	200	0.63	0.06	32.7	0.77	11.30	2.5	11	2.13	8.5
L843785		0.39	<0.01	0.02	0.03	12	30	0.15	0.02	38.6	0.09	0.43	0.3	1	<0.05	2.2
L843596		0.37	0.02	0.04	1.16	33.5	50	0.36	0.02	7.59	0.66	11.80	4.7	20	2.65	4.1
L843597		0.72	0.01	0.01	1.72	15.5	50	0.47	0.01	9.15	0.05	22.2	3.5	39	1.50	4.1
L843598		0.24	0.03	0.05	2.54	61.2	80	0.53	0.09	0.43	0.09	28.3	9.0	26	2.32	23.1
L843599		0.90	0.01	0.01	0.87	13.7	40	0.23	0.05	4.18	0.02	14.20	1.6	15	0.49	6.2
L843600		0.73	<0.01	0.01	0.64	7	40	0.25	0.03	10.10	0.03	18.15	0.8	9	0.25	2.6
L843801		0.45	<0.01	0.10	2.10	54	290	0.47	0.09	17.30	0.04	22.2	9.2	26	2.72	14.0
L843802		0.93	0.01	0.03	0.95	189.5	20	0.18	0.01	0.91	0.10	8.54	4.2	13	1.11	6.5
L843803		0.91	0.02	0.08	1.13	1130	60	0.30	0.02	0.08	0.04	14.65	3.4	27	2.30	7.8
L843804		0.65	<0.01	0.04	0.97	30.9	30	0.16	0.02	0.03	<0.02	19.65	2.3	21	0.69	3.5
L843805		0.67	0.04	0.18	7.02	44.1	400	1.31	0.19	0.06	0.04	65.8	19.7	100	11.20	72.2
L843806		0.65	0.23	0.15	6.67	374	320	1.08	0.25	0.04	0.02	84.6	33.9	96	7.24	77.2
L843807		0.34	0.01	0.02	0.57	189.5	40	0.13	0.01	0.04	0.03	5.21	1.3	24	0.89	6.5
L843808		0.51	0.08	0.49	2.23	605	90	0.42	0.05	0.27	0.09	18.95	8.1	24	2.82	14.9
L843809		0.36	0.31	0.64	10.60	416	640	2.59	0.84	0.05	0.04	45.1	56.7	149	16.70	74.4



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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR															
L843760		0.20	0.64	0.43	0.1	0.12	0.005	0.02	2.3	1.4	7.66	245	9.68	0.03	0.4	17.5
L843761		4.21	7.02	0.15	1.5	0.26	0.035	0.82	28.6	25.1	0.20	72	49.3	0.03	4.9	22.9
L843762		0.13	0.58	0.10	0.1	0.98	<0.005	0.06	2.4	0.9	0.16	188	0.60	0.01	0.8	21.2
L843763		0.13	0.64	0.11	0.1	0.28	<0.005	0.09	1.6	0.9	0.23	31	3.48	0.01	0.8	7.3
L843764		7.75	1.07	0.22	0.1	8.29	0.013	0.07	4.8	0.9	0.11	677	31.6	<0.01	0.9	649
L843765		15.10	1.24	0.76	0.9	0.52	0.017	0.04	0.8	23.6	0.08	166	12.55	0.01	0.7	2220
L843766		0.34	0.38	<0.05	0.1	0.14	<0.005	0.06	1.5	0.6	0.17	121	0.58	<0.01	0.7	14.3
L843767		0.26	0.62	0.09	0.1	0.07	<0.005	0.11	2.1	0.6	0.31	237	0.34	<0.01	0.7	9.9
L843768		0.06	0.44	0.26	<0.1	0.17	<0.005	0.04	1.7	0.3	0.57	125	0.14	<0.01	0.6	2.7
L843769		0.22	0.66	0.19	0.1	0.10	<0.005	0.11	3.5	0.5	0.59	113	0.33	<0.01	1.0	5.9
L843770		0.72	2.61	0.08	0.5	0.27	0.013	0.34	11.4	4.7	4.98	179	1.04	0.14	2.9	15.6
L843771		0.43	1.66	0.07	0.3	0.28	0.008	0.24	6.3	3.4	3.17	82	0.69	0.02	1.6	19.3
L843772		0.47	2.02	0.09	0.3	0.33	0.009	0.30	7.9	4.0	2.15	78	0.70	0.02	1.7	18.3
L843773		0.19	0.78	0.14	0.1	0.10	<0.005	0.09	3.8	1.5	0.23	45	0.50	0.01	0.9	15.0
L843774		0.06	0.60	0.71	<0.1	0.05	<0.005	0.01	1.0	0.5	9.76	44	0.16	<0.01	0.3	7.3
L843775		0.05	0.68	0.54	<0.1	0.19	<0.005	0.04	1.1	0.5	1.67	28	0.23	<0.01	0.5	4.2
L843776		0.19	0.89	0.12	0.1	0.15	<0.005	0.14	3.4	1.1	3.12	137	0.44	0.01	0.8	8.6
L843777		3.61	12.65	0.14	2.4	1.42	0.055	1.41	48.9	31.7	0.74	1010	2.22	0.70	11.7	49.4
L843778		0.65	2.14	0.10	0.3	0.50	0.009	0.24	10.0	4.3	0.28	356	0.98	0.05	1.9	22.2
L843779		0.08	0.27	0.08	<0.1	0.09	<0.005	0.03	2.0	0.9	0.17	172	0.31	0.02	0.2	2.7
L843780		0.34	1.07	0.07	0.1	0.67	<0.005	0.18	1.6	1.4	1.56	388	0.36	0.01	0.6	20.3
L843781		0.11	0.68	0.22	0.1	0.15	<0.005	0.03	1.3	0.5	0.11	700	0.23	<0.01	0.7	6.2
L843782		0.55	2.41	0.13	0.4	0.42	0.008	0.28	7.2	4.1	0.27	121	2.03	0.06	2.6	16.4
L843783		0.38	1.52	0.10	0.2	0.24	0.008	0.21	3.9	3.5	0.70	142	1.72	0.05	1.2	10.7
L843784		0.61	2.33	0.06	0.4	2.38	0.011	0.33	6.1	5.7	0.25	178	1.46	0.06	2.1	19.8
L843785		0.02	0.11	0.09	<0.1	0.08	<0.005	0.01	<0.5	0.4	0.14	36	0.23	<0.01	<0.1	1.7
L843596		3.11	3.45	<0.05	0.8	5.5	0.015	0.44	5.5	10.5	0.52	790	0.19	0.01	1.9	8.8
L843597		3.56	3.83	<0.05	1.2	3.20	0.021	0.50	9.7	16.2	0.98	958	0.18	0.02	2.2	7.7
L843598		2.75	7.16	0.07	1.4	8.7	0.019	0.84	12.6	50.4	0.13	220	0.29	0.01	2.4	21.0
L843599		1.18	1.40	0.06	0.6	0.91	0.010	0.09	6.6	13.9	0.32	399	0.16	<0.01	1.0	3.9
L843600		1.04	0.87	0.07	0.3	0.26	0.045	0.05	9.0	9.9	0.24	348	0.17	<0.01	0.4	2.2
L843801		7.31	4.49	0.11	0.9	1.38	0.016	0.57	9.5	12.4	3.76	475	0.23	0.02	2.8	20.5
L843802		1.20	2.34	0.58	0.4	>100	0.008	0.23	6.9	24.5	0.05	165	0.10	0.01	0.1	7.7
L843803		1.95	2.77	<0.05	0.9	60.6	0.010	0.30	7.0	55.6	0.05	446	0.23	<0.01	1.7	6.8
L843804		1.12	1.84	0.11	1.1	3.20	0.008	0.12	9.4	13.2	0.03	435	0.27	<0.01	1.4	4.5
L843805		6.77	20.1	0.18	2.9	0.69	0.061	2.81	30.3	35.4	0.37	74	0.38	0.08	8.2	42.2
L843806		5.06	19.85	0.17	3.5	8.5	0.046	2.69	39.8	36.2	0.36	147	0.39	0.02	9.3	36.6
L843807		1.08	1.90	0.11	0.3	0.87	<0.005	0.24	2.3	7.1	0.04	78	0.11	<0.01	0.1	3.9
L843808		2.89	6.17	0.64	0.9	27.3	0.020	0.76	9.6	60.8	0.11	587	0.12	0.01	1.2	21.1
L843809		11.60	31.0	0.29	4.2	3.00	0.115	4.68	17.6	27.9	0.58	150	1.85	0.03	11.0	61.9



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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
L843760		130	1.7	1.0	0.013	0.22	1.81	3.0	2	0.3	271	<0.05	<0.05	<0.2	<0.005	0.13
L843761		>10000	7.5	54.2	0.058	0.31	11.15	10.0	9	1.0	457	0.32	0.08	4.4	0.148	3.55
L843762		90	7.4	3.3	<0.002	0.03	0.51	2.5	2	<0.2	214	<0.05	<0.05	0.4	0.009	0.42
L843763		90	1.8	3.8	0.008	0.05	0.39	1.2	2	<0.2	340	<0.05	<0.05	0.3	0.010	0.15
L843764		280	5.6	3.6	<0.002	0.05	62.1	8.9	33	0.2	68.4	<0.05	<0.05	0.4	0.010	3.90
L843765		2770	23.5	0.4	0.002	0.11	12.65	10.8	9	<0.2	22.1	0.07	<0.05	0.2	0.006	0.16
L843766		100	1.2	2.7	<0.002	<0.01	0.50	0.7	2	<0.2	107.0	<0.05	<0.05	0.2	0.006	0.07
L843767		140	1.3	4.1	<0.002	0.01	0.16	0.8	1	<0.2	92.9	<0.05	<0.05	0.2	0.007	0.06
L843768		90	0.9	1.5	0.002	<0.01	0.05	1.0	1	<0.2	97.9	<0.05	<0.05	<0.2	<0.005	0.03
L843769		100	2.8	3.8	<0.002	<0.01	0.15	0.7	1	<0.2	206	<0.05	<0.05	0.6	<0.009	0.04
L843770		320	23.6	18.1	<0.002	0.02	0.79	2.4	2	0.4	183.5	0.17	<0.05	2.3	0.077	0.30
L843771		190	6.9	12.1	<0.002	0.02	0.52	1.5	2	0.3	216	0.08	<0.05	1.3	0.035	0.25
L843772		240	6.8	15.2	<0.002	0.02	0.53	1.8	2	0.3	247	0.09	<0.05	1.5	0.041	0.30
L843773		280	2.3	4.8	0.003	<0.01	0.26	0.8	2	<0.2	214	<0.05	<0.05	0.5	0.013	0.14
L843774		70	3.1	0.4	<0.002	<0.01	0.15	0.3	1	<0.2	124.5	<0.05	<0.05	<0.2	<0.005	0.02
L843775		60	3.4	1.6	<0.002	0.01	0.14	0.5	1	<0.2	199.0	<0.05	<0.05	0.2	<0.005	0.02
L843776		80	6.7	5.6	<0.002	0.02	0.85	1.2	1	<0.2	298	<0.05	<0.05	0.6	0.015	0.12
L843777		1110	48.3	75.3	<0.002	0.06	3.02	11.2	3	1.7	186.0	0.86	0.05	10.3	0.360	1.22
L843778		330	20.6	14.5	0.002	0.01	1.12	2.0	1	0.4	209	0.12	<0.05	1.8	0.052	0.69
L843779		220	3.9	1.3	0.002	0.01	0.19	0.3	<1	<0.2	174.5	<0.05	<0.05	0.2	0.007	0.05
L843780		240	23.8	6.1	<0.002	0.01	1.01	0.9	<1	0.2	55.3	<0.05	<0.05	0.5	0.018	0.45
L843781		80	1.8	1.6	<0.002	0.01	37.4	1.3	1	<0.2	18.3	<0.05	<0.05	0.2	0.005	0.03
L843782		260	11.8	15.3	<0.002	0.03	20.1	2.2	1	0.3	164.0	0.13	<0.05	1.9	0.056	0.26
L843783		270	8.9	9.4	<0.002	0.02	0.42	1.3	1	0.3	159.5	0.07	<0.05	1.0	0.038	0.17
L843784		320	11.7	15.2	<0.002	0.02	0.68	1.9	<1	0.4	148.5	0.13	<0.05	1.6	0.060	0.32
L843785		50	1.6	0.4	<0.002	0.01	0.09	0.1	<1	<0.2	131.0	<0.05	<0.05	<0.2	<0.005	<0.02
L843596		60	6.3	20.5	<0.002	<0.01	14.50	5.1	1	0.4	108.5	0.11	<0.05	2.7	0.107	0.13
L843597		90	3.3	20.2	<0.002	<0.01	4.73	4.6	1	0.3	212	0.14	<0.05	3.3	0.209	0.10
L843598		50	3.9	32.4	<0.002	0.01	7.66	4.1	<1	0.6	14.7	0.19	<0.05	4.5	0.176	0.21
L843599		160	3.2	3.8	<0.002	<0.01	2.11	2.3	<1	0.3	142.0	0.07	<0.05	2.3	0.067	0.04
L843600		250	1.6	2.1	<0.002	<0.01	0.88	2.4	<1	0.2	281	<0.05	<0.05	1.0	0.024	<0.02
L843801		690	25.0	25.6	<0.002	<0.01	74.6	6.2	2	0.5	1525	0.17	<0.05	3.9	0.121	0.18
L843802		40	2.0	10.3	<0.002	0.01	>10000	2.2	1	<0.2	142.0	<0.05	<0.05	1.5	0.026	8.95
L843803		150	2.2	13.8	<0.002	<0.01	1990	2.6	1	0.3	156.0	0.11	<0.05	2.6	0.136	1.44
L843804		80	2.5	5.9	<0.002	<0.01	256	1.9	1	0.2	37.4	0.09	<0.05	3.7	0.134	0.08
L843805		120	17.3	118.5	<0.002	<0.01	27.1	18.8	2	1.8	21.2	0.57	0.05	10.0	0.557	0.66
L843806		180	28.2	116.5	<0.002	<0.01	417	16.0	2	2.0	50.5	0.64	0.08	12.2	0.573	0.65
L843807		30	1.7	11.7	<0.002	<0.01	985	1.6	1	<0.2	23.2	<0.05	<0.05	1.0	0.052	0.10
L843808		90	25.2	33.5	<0.002	<0.01	7460	6.6	1	0.2	112.5	<0.05	<0.05	3.4	0.076	0.83
L843809		240	101.0	152.0	<0.002	0.02	56.8	28.3	3	3.5	38.4	0.78	0.20	11.0	0.596	1.25

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10	Sb- AA08	
		U	V	W	Y	Zn	Zr	Zn	As	Hg	Sb	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.001	0.001	0.1	0.01	0.01	
L843760		7.0	30	0.4	12.1	77						
L843761		10.8	186	1.3	32.2	174						
L843762		1.9	22	0.3	9.7	203						
L843763		3.7	16	0.1	3.6	36						
L843764		5.4	303	1.5	35.3	671						
L843765		15.3	241	8.1	132.5	5850		1.165				
L843766		0.7	9	0.1	9.4	75						
L843767		2.6	8	0.2	9.1	49						
L843768		0.8	5	0.1	6.9	8						
L843769		0.7	6	0.1	7.7	38						
L843770		2.2	39	0.6	10.8	109						
L843771		3.3	26	0.4	7.7	89						
L843772		3.7	33	0.4	8.6	90						
L843773		4.8	20	0.2	7.1	66						
L843774		0.6	4	0.1	3.2	26						
L843775		0.6	5	0.2	1.1	12						
L843776		2.3	11	0.5	6.4	74						
L843777		4.8	154	1.9	31.9	258						
L843778		4.0	38	0.7	10.7	120						
L843779		4.1	10	0.2	5.3	16						
L843780		5.4	11	0.6	5.5	694						
L843781		15.3	17	0.4	9.7	27						
L843782		3.0	30	0.6	5.4	106						
L843783		2.3	18	0.5	3.9	101						
L843784		2.9	30	0.6	5.6	151						
L843785		2.6	3	0.1	0.8	13						
L843596		0.5	55	2.7	10.3	60						
L843597		0.5	52	1.5	10.0	21						
L843598		0.7	54	1.2	5.5	45						
L843599		0.4	18	0.6	7.0	7						
L843600		0.2	9	0.2	5.9	11						
L843801		0.8	53	3.2	15.8	48						
L843802		0.5	8	<0.1	3.5	559			478	5.76		
L843803		0.5	32	1.2	5.4	41						
L843804		0.5	18	1.2	3.8	6						
L843805		1.6	184	1.2	13.6	88						
L843806		1.9	161	3.3	12.8	53						
L843807		0.2	13	0.2	2.4	12						
L843808		0.8	25	0.2	6.6	42						
L843809		2.9	262	4.0	11.2	88						



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Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843810		0.76	0.01	0.12	0.76	18	30	0.37	0.02	15.45	0.06	10.80	4.3	16	1.01	5.0
L843811		0.21	0.12	0.23	3.42	115.0	210	0.61	0.10	0.07	0.03	49.5	3.2	35	4.23	8.1
L843812		0.68	<0.01	0.47	0.30	654	110	<0.05	0.05	0.41	0.10	3.39	4.1	4	0.62	54.1
L843813		0.13	<0.01	0.74	0.92	63.0	140	0.26	0.05	0.31	0.16	4.99	7.2	13	1.53	14.2
L843814		0.30	<0.01	0.04	4.57	36.1	310	0.93	0.18	0.33	0.10	52.5	13.6	49	4.76	48.4
L843815		0.53	<0.01	0.07	5.07	33.3	380	0.93	0.20	0.11	0.04	52.9	12.0	55	5.53	42.0
L843816		0.61	<0.01	0.05	2.87	131.5	120	0.72	0.09	1.49	0.06	26.9	9.6	38	2.52	67.3
L843817		0.37	<0.01	0.05	2.07	16.8	110	0.40	0.06	3.73	0.04	32.5	5.0	34	1.13	20.4
L843818		0.24	<0.01	0.09	3.58	227	340	0.59	0.34	3.75	0.09	46.2	11.6	45	3.98	56.4
L843819		0.54	<0.01	0.09	9.08	43.2	560	3.03	0.37	0.19	0.03	77.9	19.6	102	20.7	66.3
L843820		0.27	<0.01	0.26	0.51	575	80	0.06	0.41	1.80	0.13	5.38	1.8	5	0.49	34.8
L843821		0.29	<0.01	0.32	0.46	397	210	0.06	0.43	2.26	0.09	6.52	1.9	5	0.80	32.8
L843822		0.07	<0.01	0.19	1.28	734	160	0.22	0.27	2.75	0.05	12.00	5.0	12	5.75	23.4
L843823		1.00	<0.01	0.07	0.59	3.9	120	0.26	0.08	6.33	0.29	11.15	4.4	18	0.89	88.6
L843824		0.33	<0.01	0.09	4.64	26.3	760	1.60	0.21	2.14	0.05	50.0	20.7	48	10.05	44.8
L843825		0.08	0.02	1.06	1.49	>10000	160	0.40	0.07	0.25	0.07	19.00	14.1	31	2.69	34.0
L843826		0.24	<0.01	0.19	0.52	608	60	0.21	0.05	0.59	0.11	9.84	3.0	11	1.37	32.5
L843827		0.33	<0.01	0.10	1.88	1110	100	0.44	0.09	5.16	0.13	20.1	3.3	26	2.76	16.7
L843828		0.09	<0.01	0.07	0.71	35	60	0.21	0.05	18.25	0.07	13.30	2.5	6	1.39	13.6
L843829		0.38	<0.01	<0.01	0.24	19	20	0.13	<0.01	24.9	0.07	19.50	1.4	7	0.25	1.7
L843830		0.40	<0.01	0.01	0.20	2.3	10	<0.05	0.01	0.05	0.02	2.35	0.3	28	0.35	6.8
L843831		0.24	0.01	0.04	0.54	12.6	30	0.15	0.07	0.06	0.02	4.26	1.0	24	0.77	14.7
L843832		0.29	0.57	0.01	0.26	5.3	20	0.08	0.01	0.05	<0.02	1.07	0.6	18	0.37	4.8
L843833		0.10	49.6	0.75	1.28	24.6	80	0.25	0.05	1.77	0.06	16.85	5.1	21	1.51	20.6
L843834		0.23	<0.01	0.05	2.17	5.5	130	0.55	0.07	0.03	0.03	27.4	5.3	28	2.69	23.0
L843835		0.43	0.02	0.03	2.23	5.3	130	0.49	0.07	0.03	0.03	27.1	5.0	27	2.59	19.8
L843836		0.18	0.01	0.03	1.36	25.4	90	0.25	0.04	0.02	0.02	12.65	7.5	28	1.93	20.9
L843837		0.30	0.02	0.10	3.59	60.2	270	0.64	0.17	0.14	0.04	40.3	6.6	53	4.57	8.2
L843838		0.66	0.02	0.12	3.45	109.5	260	0.77	0.16	0.05	0.04	37.7	12.8	52	4.50	20.0
L843839		0.37	<0.01	0.02	0.19	6	30	0.28	<0.01	20.0	0.05	2.43	2.3	3	0.17	3.0
L843840		0.33	<0.01	0.05	0.84	30.5	70	0.18	0.05	0.04	0.02	9.31	0.4	30	1.33	32.1
L843841		0.29	0.11	0.25	6.91	82.0	650	1.47	0.26	0.02	<0.02	78.7	3.8	82	13.00	82.6
L843842		0.27	0.01	0.06	2.00	126.5	140	0.50	0.06	0.03	0.08	20.4	8.6	40	2.31	77.8
L843843		0.39	0.02	0.02	0.76	13.0	80	0.14	0.01	0.01	<0.02	5.47	1.1	23	1.16	10.8
L843844		0.16	<0.01	0.02	1.67	25.5	140	0.44	0.06	0.01	<0.02	25.0	2.6	28	3.18	8.5
L843845		0.32	<0.01	0.01	1.21	5.6	170	0.28	0.03	0.01	<0.02	10.10	1.5	25	2.19	9.0
L843846		0.51	0.04	0.08	8.84	53.6	570	2.00	0.38	0.03	0.05	67.7	11.1	93	16.50	44.6
L843847		0.33	0.02	0.08	3.24	36.0	400	0.69	0.13	0.14	0.12	30.4	11.0	43	4.59	27.2
L843848		0.32	0.86	0.12	0.50	286	40	0.12	0.02	0.01	0.03	8.21	0.7	25	0.73	8.4
L843849		0.39	0.28	0.66	3.52	2770	1510	0.62	0.18	0.04	0.28	34.6	10.3	43	4.55	167.5





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Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843810		3.63	1.88	0.05	0.5	1.69	0.006	0.19	5.0	10.8	0.16	637	0.30	<0.01	1.0	9.3
L843811		1.37	10.45	0.10	1.6	3.26	0.030	1.59	24.4	8.4	0.21	60	0.49	0.01	3.6	6.4
L843812		0.26	0.89	0.69	0.1	42.4	<0.005	0.05	47.4	3.4	0.02	46	0.10	0.01	0.2	5.2
L843813		1.48	2.50	0.35	0.3	10.1	0.009	0.34	29.5	11.7	0.07	116	0.20	0.01	0.6	9.3
L843814		3.30	13.10	0.15	2.1	7.8	0.042	1.28	26.0	195.5	0.35	194	0.31	0.01	6.9	26.3
L843815		3.82	13.65	0.12	2.2	3.46	0.048	1.61	25.5	173.5	0.35	129	0.45	0.01	7.6	27.8
L843816		2.64	7.87	0.05	1.4	0.64	0.026	0.83	13.2	54.7	0.57	535	0.28	0.01	4.3	21.6
L843817		2.69	4.92	<0.05	1.0	0.96	0.022	0.37	14.7	29.4	0.73	1820	0.23	0.01	3.4	12.8
L843818		4.56	8.68	0.08	1.4	5.95	0.031	0.94	22.0	93.7	0.62	965	0.43	0.22	5.2	20.0
L843819		4.94	27.0	0.28	2.9	0.15	0.085	3.91	32.4	82.1	1.43	108	0.35	0.72	12.8	43.6
L843820		0.69	1.19	0.84	0.1	51.8	<0.005	0.14	42.7	0.7	0.66	110	0.11	0.02	0.4	2.6
L843821		1.13	1.02	0.51	0.1	46.2	<0.005	0.07	39.0	4.3	0.77	203	0.11	0.02	0.3	2.6
L843822		0.57	2.58	1.03	0.4	61.9	0.010	0.27	27.1	30.3	0.14	265	0.16	0.03	0.4	7.7
L843823		2.67	1.60	0.19	0.2	9.85	0.035	0.16	5.4	32.6	2.95	423	0.18	0.01	0.4	10.4
L843824		9.27	12.35	0.24	2.2	1.96	0.046	1.56	25.1	52.3	6.27	427	0.27	0.06	7.6	55.1
L843825		2.68	4.29	0.12	0.9	27.4	0.031	0.51	20.4	160.0	0.14	111	0.34	0.01	2.1	28.6
L843826		0.90	1.41	0.70	0.2	45.3	0.006	0.15	47.1	10.6	0.05	74	0.13	0.01	0.4	4.9
L843827		2.89	4.90	0.55	0.8	20.4	0.019	0.74	19.7	77.0	2.22	552	0.14	0.02	1.0	4.9
L843828		10.95	2.00	0.20	0.3	4.35	0.008	0.29	7.8	14.3	6.24	1160	0.14	0.01	1.3	1.7
L843829		0.79	0.77	0.10	0.1	0.38	0.039	0.04	5.6	6.3	0.44	2480	0.15	0.07	0.2	<0.2
L843830		0.37	0.53	0.53	0.1	0.40	0.006	0.07	1.0	3.6	0.02	30	0.24	0.01	0.1	3.8
L843831		0.67	1.35	0.22	0.2	0.41	0.006	0.19	1.8	18.9	0.04	49	0.44	0.04	0.5	5.4
L843832		0.56	0.70	0.14	0.1	0.75	<0.005	0.10	<0.5	3.3	0.04	44	0.18	0.01	0.1	2.3
L843833		1.82	2.93	0.07	0.6	1.72	0.012	0.45	8.4	10.9	0.21	327	0.80	0.02	1.6	20.8
L843834		3.40	4.99	0.08	1.2	0.10	0.022	0.59	11.7	55.7	0.11	166	0.41	0.11	2.9	14.6
L843835		3.49	4.95	0.06	1.3	1.29	0.023	0.59	11.0	47.9	0.11	172	0.38	0.12	3.2	13.2
L843836		3.72	3.12	0.05	0.6	1.80	0.015	0.48	5.4	22.3	0.09	352	0.33	0.01	1.8	16.0
L843837		2.54	9.34	0.08	2.0	1.24	0.026	1.43	17.2	19.0	0.24	184	1.81	0.02	7.7	17.9
L843838		3.04	9.18	0.08	1.8	1.32	0.026	1.36	17.5	17.1	0.22	135	1.93	0.01	7.4	23.8
L843839		1.14	0.37	<0.05	0.1	0.24	<0.005	0.05	0.9	6.8	10.70	775	0.17	0.02	0.3	3.7
L843840		1.25	2.27	0.06	0.4	1.70	0.034	0.32	3.8	6.8	0.06	28	0.27	0.01	1.3	2.2
L843841		13.60	19.65	0.17	2.7	6.1	0.075	3.27	28.5	14.2	0.57	74	0.68	0.02	6.7	12.8
L843842		3.80	4.57	0.05	1.1	2.56	0.028	0.78	8.9	21.4	0.14	98	0.40	0.01	3.4	19.7
L843843		0.82	1.98	<0.05	0.3	0.33	<0.005	0.30	2.3	6.0	0.05	30	0.31	0.01	1.0	4.1
L843844		2.86	4.45	0.06	1.3	0.22	0.013	0.66	10.5	24.5	0.11	85	0.51	0.03	2.8	7.0
L843845		2.06	3.04	<0.05	0.5	0.09	0.006	0.44	4.7	34.4	0.08	76	0.32	0.01	1.5	5.9
L843846		8.51	25.7	0.14	4.0	2.19	0.078	3.62	29.0	65.7	0.61	138	0.67	0.04	12.7	26.1
L843847		7.03	7.37	0.07	1.5	2.12	0.041	0.98	13.8	30.7	0.17	398	0.80	0.06	3.9	28.1
L843848		1.03	1.55	<0.05	0.2	2.67	<0.005	0.21	4.0	5.4	0.04	37	0.73	0.01	0.5	2.7
L843849		14.85	9.39	0.13	1.4	>100	0.046	1.32	14.3	30.3	0.22	146	0.39	0.01	3.1	24.7

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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843810		50	6.8	8.2	<0.002	<0.01	69.7	3.3	1	0.2	59.6	0.05	<0.05	2.0	0.054	0.19
L843811		170	15.8	71.7	<0.002	0.01	143.0	7.7	1	1.0	187.5	0.26	<0.05	5.5	0.175	0.39
L843812		180	369	2.4	<0.002	>10.0	>10000	1.2	7	<0.2	106.0	<0.05	<0.05	0.5	0.014	7.56
L843813		90	37.2	16.9	<0.002	>10.0	>10000	2.8	2	0.3	63.5	<0.05	<0.05	1.4	0.054	3.88
L843814		330	21.0	63.4	<0.002	0.08	1990	12.6	2	1.3	328	0.49	0.05	8.9	0.318	0.35
L843815		460	13.1	77.3	<0.002	0.03	449	13.8	2	1.6	475	0.52	<0.05	9.0	0.358	0.41
L843816		220	8.2	39.0	<0.002	0.05	123.5	8.4	1	0.9	106.0	0.29	<0.05	5.1	0.214	0.20
L843817		250	4.7	17.7	<0.002	0.02	144.0	7.0	1	0.5	249	0.21	<0.05	3.9	0.214	0.10
L843818		1040	54.6	42.2	<0.002	0.03	193.0	10.6	2	0.9	1185	0.34	<0.05	6.1	0.286	0.24
L843819		1130	27.6	137.0	<0.002	0.13	23.2	27.4	2	2.7	61.7	0.87	0.05	11.6	0.491	1.03
L843820		230	212	6.3	<0.002	>10.0	>10000	1.8	6	<0.2	174.0	<0.05	<0.05	0.9	0.022	5.72
L843821		310	245	3.3	<0.002	>10.0	>10000	1.4	5	<0.2	236	<0.05	<0.05	0.9	0.015	8.63
L843822		450	92.5	12.6	<0.002	3.16	>10000	3.6	5	0.3	496	<0.05	<0.05	2.1	0.044	4.48
L843823		120	60.7	7.6	<0.002	0.03	899	5.1	1	0.2	242	<0.05	<0.05	0.8	0.035	0.05
L843824		490	16.1	75.6	<0.002	0.10	4570	13.3	2	1.5	265	0.56	0.05	7.7	0.373	0.43
L843825		140	45.3	26.9	<0.002	3.72	>10000	3.8	2	0.6	131.5	0.17	<0.05	3.4	0.136	3.19
L843826		150	190.5	8.3	<0.002	>10.0	>10000	1.9	5	0.2	142.0	<0.05	<0.05	1.2	0.033	6.19
L843827		170	16.8	35.7	<0.002	3.52	>10000	5.5	1	0.6	249	<0.05	<0.05	2.9	0.117	1.33
L843828		30	39.9	15.9	<0.002	0.29	8720	2.8	2	0.3	893	0.08	<0.05	1.0	0.044	0.22
L843829		70	0.8	2.5	<0.002	0.02	515	2.8	2	<0.2	3590	<0.05	<0.05	0.3	<0.005	0.02
L843830		10	3.2	3.6	0.003	0.01	214	0.5	<1	0.2	6.5	<0.05	<0.05	0.4	0.012	0.06
L843831		50	4.6	9.7	<0.002	0.02	96.3	1.3	1	0.3	11.0	<0.05	<0.05	0.8	0.034	0.07
L843832		40	1.3	4.8	<0.002	0.01	88.0	0.8	1	<0.2	7.5	<0.05	<0.05	0.3	0.011	0.04
L843833		150	5.3	21.3	<0.002	0.01	73.0	2.2	1	0.5	38.3	0.12	<0.05	2.4	0.078	0.13
L843834		140	7.3	33.3	0.002	0.02	62.1	4.7	1	0.7	34.9	0.22	<0.05	3.8	0.134	0.15
L843835		140	7.5	29.9	0.003	0.02	54.8	4.5	<1	0.7	37.6	0.25	<0.05	4.2	0.143	0.16
L843836		170	3.7	22.9	0.003	0.04	33.5	3.4	<1	0.5	168.5	0.12	<0.05	2.1	0.139	0.20
L843837		130	16.4	67.7	0.004	0.03	21.0	7.9	<1	1.2	35.4	0.58	<0.05	6.6	0.388	0.39
L843838		220	18.3	64.6	0.008	0.02	29.0	8.9	1	1.2	36.9	0.54	<0.05	6.4	0.355	0.38
L843839		60	1.0	2.0	0.002	0.01	28.3	0.8	<1	<0.2	428	<0.05	<0.05	0.4	0.014	0.03
L843840		160	7.3	15.8	0.004	0.01	27.0	1.6	1	0.9	47.5	0.08	<0.05	1.5	0.052	0.09
L843841		970	32.5	157.5	0.006	0.08	64.8	16.9	1	2.0	329	0.51	0.05	10.5	0.388	0.79
L843842		250	6.4	35.6	0.003	0.01	36.4	7.0	<1	0.6	196.0	0.25	<0.05	3.9	0.230	0.28
L843843		100	2.7	14.9	0.004	<0.01	23.0	1.5	<1	0.3	61.9	0.07	<0.05	1.0	0.044	0.11
L843844		130	6.3	34.2	0.005	0.02	11.80	3.7	<1	0.6	24.5	0.20	<0.05	3.2	0.125	0.17
L843845		190	2.7	22.6	0.006	0.01	10.85	2.1	1	0.5	65.8	0.11	<0.05	2.1	0.067	0.10
L843846		620	17.6	179.0	0.005	0.02	15.25	20.1	3	3.0	81.9	0.97	0.06	14.5	0.603	0.95
L843847		3220	7.0	46.5	0.005	0.02	9.20	20.2	2	1.0	421	0.30	<0.05	8.8	0.205	0.42
L843848		80	3.6	10.8	0.004	<0.01	16.00	1.3	<1	0.4	24.5	<0.05	<0.05	0.8	0.022	0.11
L843849		3570	28.4	69.6	0.006	0.10	99.2	8.4	7	1.2	1830	0.26	0.08	6.2	0.176	1.43

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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10	Sb- AA08	
		U	V	W	Y	Zn	Zr	Zn	As	Hg	Sb	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	%
		0.1	1	0.1	0.1	2	0.001	0.001	0.1	0.01	0.01	
L843810		0.5	33	0.6	8.9	20	19.5					
L843811		0.9	66	1.1	7.0	13	52.3					
L843812		0.8	5	0.4	0.7	6	2.9				55.9	
L843813		0.6	16	0.3	2.4	30	11.9			31.9		
L843814		1.5	89	2.3	11.7	68	69.3					
L843815		1.6	102	3.1	12.9	53	73.6					
L843816		0.9	61	0.7	7.9	42	45.7					
L843817		0.7	52	0.5	13.1	32	34.4					
L843818		1.0	82	2.2	12.9	67	49.3					
L843819		2.6	157	1.3	19.6	66	97.0					
L843820		0.3	8	0.3	1.6	5	4.5				50.4	
L843821		0.9	6	0.4	1.8	12	3.4			40.5		
L843822		5.5	12	0.3	4.5	33	13.7			25.1		
L843823		0.2	12	0.1	6.9	112	7.3					
L843824		1.5	91	1.2	14.9	72	80.0					
L843825		0.9	35	2.4	4.7	26	29.4	1.170		9.21		
L843826		0.6	9	0.4	2.7	36	7.5			34.4		
L843827		0.6	35	0.3	7.3	71	26.5			9.43		
L843828		0.3	16	1.2	13.7	59	11.3					
L843829		<0.1	3	0.1	30.9	8	1.2					
L843830		0.1	4	<0.1	0.5	3	3.5					
L843831		0.3	10	0.2	1.3	10	7.3					
L843832		0.1	4	0.1	0.4	7	2.2					
L843833		0.7	21	0.6	4.8	19	23.2					
L843834		0.9	32	0.4	5.6	57	37.6					
L843835		0.9	32	0.4	5.7	58	39.2					
L843836		0.4	36	1.1	4.8	32	20.2					
L843837		1.4	97	1.0	10.2	30	65.1					
L843838		1.3	98	0.9	9.7	42	61.6					
L843839		0.2	4	0.1	3.8	13	4.1					
L843840		0.3	19	0.5	1.5	24	12.6					
L843841		1.8	151	3.7	14.3	55	97.0					
L843842		0.8	50	3.0	6.4	95	49.9					
L843843		0.3	16	0.7	1.5	9	9.7					
L843844		0.7	29	1.0	6.4	37	33.6					
L843845		0.4	21	0.5	2.8	39	18.7					
L843846		2.7	175	1.7	17.3	109	138.0					
L843847		1.9	65	0.7	10.9	105	63.0					
L843848		0.1	9	0.3	0.9	12	5.7					
L843849		1.3	62	3.0	7.3	91	46.5		5940			



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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843850		0.25	0.17	0.31	8.77	39.3	590	2.09	0.43	0.05	0.08	83.1	6.3	94	16.10	14.1
L843901		0.12	0.08	0.20	6.38	56.1	420	1.55	0.33	0.05	0.13	77.9	13.2	82	13.95	44.5
L843902		0.48	0.08	0.12	4.28	37.9	280	1.19	0.17	0.04	0.02	52.2	2.0	45	9.68	7.8
L843903		0.26	3.37	0.07	0.40	22.6	30	0.09	0.02	0.01	<0.02	1.53	0.5	21	0.61	4.0
L843904		0.41	0.09	0.13	8.76	539	500	2.36	0.39	0.03	0.07	88.7	7.3	91	14.35	46.5
L843905		0.09	0.06	0.17	1.82	102.0	100	0.40	0.05	0.02	0.03	13.15	2.8	41	3.09	13.6
L843906		0.34	0.17	0.16	3.59	3680	500	0.90	0.14	0.04	0.27	32.0	31.7	44	9.09	45.0
L843907		0.33	0.01	0.08	0.96	32.6	70	0.22	0.03	0.01	<0.02	8.86	1.3	22	1.55	4.6
L843908		0.22	0.01	0.02	0.17	30.4	10	0.06	<0.01	0.01	<0.02	0.95	1.0	14	0.37	7.2
L843909		0.07	0.05	0.28	5.17	1110	570	1.27	0.16	0.02	0.30	63.2	60.2	56	10.95	145.0
L843910		0.28	<0.01	0.01	0.32	2.4	40	0.23	<0.01	0.01	0.04	1.05	2.4	21	0.33	7.2
L843911		1.14	0.01	0.02	1.53	1090	120	0.22	0.03	0.01	0.07	14.25	1.8	47	1.25	12.7
L843912		0.17	0.01	0.02	1.47	1025	110	0.22	0.02	0.01	0.06	13.20	1.6	41	1.17	11.9
L843913		0.65	0.05	0.08	2.77	48.2	110	0.77	0.09	0.05	0.02	51.2	5.3	47	2.82	17.6
L843914		0.62	<0.01	0.03	1.99	47.4	90	0.26	0.05	0.05	0.04	19.00	6.2	48	1.20	14.3
L843915		0.39	0.01	0.13	2.57	65.1	140	0.47	0.07	0.02	0.15	28.7	9.0	51	1.90	23.9
L843916		0.29	0.05	0.10	2.42	693	810	0.47	0.10	0.02	0.16	31.0	1.8	35	5.02	13.1
L843917		0.76	0.01	0.02	1.12	119.5	70	0.19	0.03	0.02	0.04	8.06	3.3	34	2.06	7.7
L843918		0.64	0.01	0.02	1.28	115.5	80	0.25	0.02	0.02	0.03	11.00	3.0	31	2.10	7.4
L843919		0.48	0.01	0.03	3.39	64.5	150	0.60	0.07	0.01	0.03	36.0	9.8	59	2.42	31.6
L843920		0.37	0.01	0.02	1.59	105.5	120	0.34	0.03	0.01	0.09	14.90	5.5	31	1.94	17.7
L843921		0.72	<0.01	<0.01	0.19	8	20	0.21	<0.01	21.2	0.04	3.94	1.0	4	0.13	2.8
L843922		0.43	<0.01	0.01	0.49	4.2	20	0.10	<0.01	0.08	0.02	2.77	0.8	18	0.44	2.5
L843923		0.33	<0.01	0.01	0.16	1.6	20	0.30	<0.01	0.12	0.42	43.9	7.8	21	0.66	8.3
L843924		0.23	<0.01	0.08	1.55	9	60	0.74	0.05	12.50	0.07	23.6	3.6	12	0.86	8.6
L843925		0.30	0.20	0.72	6.93	97.3	390	2.09	0.31	0.50	0.53	65.0	16.1	87	10.75	79.9
L843926		0.17	0.01	0.04	1.72	9.8	190	0.90	0.03	5.05	0.92	16.85	6.5	19	1.98	12.7
L843927		0.21	0.03	0.05	0.94	17.0	60	0.27	0.02	0.08	0.09	7.73	3.5	28	1.62	11.2
L843928		0.34	0.14	0.27	3.39	78.2	190	0.98	0.13	0.11	0.08	39.8	13.0	41	4.83	28.7
L843929		0.16	0.01	0.05	0.59	6.7	40	0.19	0.01	0.03	0.09	3.65	2.2	17	0.99	8.3
L843930		0.23	<0.01	0.01	0.35	3.0	20	0.08	<0.01	0.03	0.06	1.16	1.7	17	0.47	1.9
L843931		0.10	0.18	0.29	5.00	105.0	240	1.34	0.21	0.05	0.07	52.4	16.6	58	7.03	32.1
L843932		0.12	<0.01	0.01	0.60	2.7	70	0.24	0.01	8.88	0.04	5.23	1.5	13	0.68	3.1
L843933		0.11	<0.01	0.03	3.85	19	140	0.58	0.10	11.05	0.25	19.45	8.0	29	2.06	17.3
L843934		0.42	<0.01	0.01	0.26	3.2	10	0.10	<0.01	0.03	0.02	1.48	1.0	19	0.45	2.9
L843935		0.26	<0.01	0.02	0.86	9.5	70	0.34	0.03	0.13	0.29	9.37	5.7	25	1.59	10.2
L843936		0.25	0.01	0.02	1.08	34.7	60	0.29	0.05	0.01	0.02	9.12	7.3	14	0.89	69.9
L843937		0.36	0.01	0.14	2.66	28.3	90	1.45	0.12	0.06	0.51	47.3	32.3	37	2.14	122.5
L843938		0.14	<0.01	0.01	0.91	7.7	70	0.26	0.01	0.95	0.10	9.40	3.8	26	1.13	9.1
L843939		0.11	<0.01	0.04	3.15	29.3	150	1.83	0.13	0.07	1.01	33.8	22.7	44	7.32	44.3

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Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843850		2.09	24.9	0.16	4.4	11.8	0.072	3.56	35.5	32.5	0.57	86	8.17	0.44	14.5	23.6
L843901		4.80	17.70	0.12	3.3	23.8	0.058	2.59	51.2	27.1	0.41	232	7.95	0.29	10.1	46.7
L843902		1.57	11.90	0.11	2.4	1.92	0.033	1.75	23.6	23.6	0.28	40	1.10	0.25	7.3	5.3
L843903		0.66	1.21	<0.05	0.1	4.23	<0.005	0.16	0.7	4.0	0.03	33	0.22	0.01	0.4	2.3
L843904		9.85	24.6	0.16	3.6	9.4	0.095	3.93	37.0	28.8	0.72	124	1.42	0.05	10.3	23.9
L843905		3.89	4.39	0.05	0.9	4.29	0.012	0.74	6.0	16.8	0.13	80	0.74	0.01	2.6	7.7
L843906		14.20	9.50	0.11	1.5	18.7	0.028	1.55	14.1	25.7	0.28	357	0.98	0.01	3.5	69.7
L843907		1.25	2.66	<0.05	0.4	1.40	<0.005	0.44	3.8	8.0	0.08	43	0.34	0.01	1.4	4.0
L843908		1.21	0.49	<0.05	0.1	0.71	<0.005	0.07	<0.5	1.6	0.01	56	0.19	<0.01	0.2	3.7
L843909		21.9	15.45	0.51	2.0	23.9	0.119	2.24	29.2	16.8	0.36	371	1.75	0.02	5.4	184.0
L843910		1.29	0.58	<0.05	<0.1	0.10	<0.005	0.07	<0.5	6.6	0.02	87	0.23	0.02	0.1	8.7
L843911		2.07	4.03	<0.05	0.8	25.0	0.014	0.50	6.4	11.3	0.08	164	0.26	0.01	2.1	5.8
L843912		1.92	3.95	<0.05	0.8	23.6	0.014	0.47	6.2	11.2	0.07	155	0.24	0.01	2.0	5.0
L843913		2.16	8.18	0.05	2.0	2.98	0.020	0.60	24.7	233	0.11	94	0.48	0.04	5.1	10.3
L843914		2.23	4.99	<0.05	1.0	2.72	0.018	0.48	8.6	15.2	0.10	210	0.29	0.01	2.6	12.9
L843915		3.17	7.19	0.08	1.5	4.96	0.027	0.79	13.1	18.1	0.14	296	0.35	0.01	4.2	19.0
L843916		1.40	6.08	0.07	1.3	50.0	0.025	0.85	14.0	26.0	0.14	41	0.40	0.01	3.7	4.2
L843917		0.84	2.78	0.05	0.5	3.58	0.015	0.42	4.0	23.7	0.08	55	0.35	0.01	1.5	8.4
L843918		0.96	3.17	0.06	0.6	5.87	0.013	0.46	5.7	27.4	0.08	53	0.37	0.01	1.9	8.7
L843919		3.97	9.31	0.08	1.8	6.15	0.034	0.87	18.2	27.9	0.15	223	0.38	0.01	5.1	23.3
L843920		2.24	3.93	0.05	1.1	5.89	0.019	0.25	7.3	26.8	0.05	108	0.35	<0.01	2.3	13.9
L843921		0.68	0.30	<0.05	<0.1	0.16	<0.005	0.02	1.9	7.4	8.87	356	0.13	0.01	0.4	2.6
L843922		0.52	1.08	0.05	0.1	0.15	0.009	0.15	1.2	5.3	0.05	64	0.26	0.11	0.4	3.1
L843923		1.09	0.57	0.09	<0.1	3.81	0.036	0.05	18.3	3.5	0.03	771	0.25	0.01	0.1	14.5
L843924		3.26	2.83	0.07	0.5	0.07	0.013	0.34	10.1	7.5	6.50	5560	2.30	0.57	2.5	9.2
L843925		5.37	17.95	0.16	3.5	5.99	0.068	3.10	33.8	22.9	0.68	260	10.30	0.04	9.9	53.6
L843926		3.91	3.21	0.06	0.7	1.10	0.026	0.54	6.4	18.9	1.92	2670	1.28	0.42	1.5	16.5
L843927		1.24	2.28	<0.05	0.3	1.13	0.013	0.39	3.4	6.1	0.09	144	1.86	0.04	1.1	8.7
L843928		5.22	8.46	0.11	1.3	2.88	0.034	1.31	17.1	10.9	0.23	259	6.35	0.39	4.1	29.0
L843929		0.80	1.38	<0.05	0.1	2.39	0.012	0.24	1.8	5.9	0.05	94	0.90	0.04	0.7	7.0
L843930		0.44	0.73	<0.05	<0.1	0.17	<0.005	0.10	0.6	13.5	0.03	702	0.41	0.01	0.3	4.0
L843931		6.66	11.80	0.13	2.1	3.89	0.054	1.99	23.5	13.6	0.37	284	9.96	0.59	6.0	45.5
L843932		1.34	1.01	<0.05	0.1	0.05	0.007	0.13	2.3	6.3	2.83	563	0.30	0.22	0.8	4.2
L843933		4.20	4.99	0.07	1.1	0.27	0.028	0.59	8.6	9.4	0.45	2300	0.77	1.87	3.6	16.7
L843934		0.58	0.51	<0.05	<0.1	0.11	<0.005	0.09	0.6	3.5	0.02	63	0.27	0.01	0.3	3.2
L843935		2.10	1.97	0.05	0.3	0.94	0.013	0.32	4.0	22.5	0.07	735	1.28	0.02	1.2	16.4
L843936		17.75	2.99	0.08	0.4	0.17	0.019	0.20	4.0	15.3	0.05	119	13.45	0.19	1.0	16.7
L843937		18.35	4.20	0.14	0.9	0.57	0.073	0.45	17.2	8.6	0.09	490	4.56	0.90	2.4	83.2
L843938		2.24	1.82	0.05	0.4	0.63	0.019	0.33	3.7	15.0	0.10	706	0.36	0.03	1.3	7.6
L843939		6.52	7.76	0.10	1.4	2.87	0.056	1.26	12.6	48.5	0.23	749	1.95	0.02	4.6	57.9

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843850		200	41.0	182.5	0.046	0.07	17.15	23.7	2	2.9	53.2	1.03	0.12	15.3	0.595	0.95
L843901		270	35.1	128.5	0.009	0.02	17.50	16.6	1	2.1	43.3	0.76	0.10	11.1	0.457	0.84
L843902		110	31.0	84.5	0.005	0.04	8.24	9.3	1	1.4	20.5	0.56	<0.05	7.9	0.307	0.53
L843903		30	3.4	8.0	0.004	<0.01	8.29	0.7	<1	0.4	6.0	<0.05	<0.05	0.4	0.017	0.06
L843904		820	39.7	198.0	0.008	0.03	78.8	25.2	5	2.8	34.7	0.79	0.06	14.4	0.511	1.13
L843905		210	10.8	36.1	0.005	0.01	19.95	5.1	<1	0.7	40.7	0.19	<0.05	2.4	0.177	0.20
L843906		470	17.2	72.5	0.005	0.02	161.5	10.3	1	1.0	337	0.30	<0.05	5.9	0.217	1.18
L843907		90	4.3	21.1	0.003	<0.01	12.35	2.3	<1	0.4	22.9	0.10	<0.05	1.4	0.071	0.14
L843908		90	1.6	3.2	0.004	<0.01	9.37	0.6	<1	0.2	2.3	<0.05	<0.05	0.2	0.009	0.05
L843909		650	45.3	117.5	0.002	0.05	462	29.6	6	2.1	301	0.40	0.06	7.1	0.296	1.11
L843910		70	1.7	2.7	<0.002	0.01	4.01	0.9	<1	<0.2	23.6	<0.05	<0.05	0.2	0.007	<0.02
L843911		200	2.8	20.5	<0.002	0.01	20.7	4.6	<1	0.4	201	0.14	<0.05	1.9	0.171	0.22
L843912		190	2.3	20.2	<0.002	0.01	18.50	4.5	1	0.5	195.5	0.13	<0.05	1.7	0.166	0.22
L843913		180	15.5	25.4	<0.002	0.01	15.85	5.4	1	0.8	56.7	0.33	<0.05	4.6	0.368	0.25
L843914		130	2.9	20.4	<0.002	0.01	16.90	5.0	1	0.6	115.5	0.19	<0.05	2.5	0.213	0.13
L843915		140	7.0	35.6	<0.002	0.01	8.24	8.5	1	0.9	112.0	0.27	<0.05	3.7	0.321	0.21
L843916		2040	15.9	36.8	<0.002	0.03	79.4	5.6	1	0.8	2200	0.28	<0.05	4.0	0.246	0.91
L843917		140	4.2	19.3	<0.002	<0.01	134.5	1.8	<1	0.4	136.0	0.10	<0.05	1.4	0.108	0.21
L843918		160	5.8	21.3	<0.002	<0.01	192.5	2.1	<1	0.5	143.0	0.13	<0.05	1.7	0.144	0.19
L843919		220	5.3	40.7	<0.002	0.01	8.07	11.9	<1	1.1	162.0	0.33	<0.05	4.6	0.393	0.28
L843920		220	4.6	12.2	<0.002	<0.01	10.60	4.4	1	0.6	152.5	0.16	<0.05	2.1	0.187	0.12
L843921		40	1.1	0.9	<0.002	0.01	1.60	0.6	<1	0.2	264	<0.05	<0.05	1.3	0.047	<0.02
L843922		40	1.7	7.2	<0.002	0.01	2.95	0.8	<1	0.3	8.3	<0.05	<0.05	0.5	0.021	0.04
L843923		50	1.8	2.3	<0.002	<0.01	2.62	3.7	1	0.2	9.9	<0.05	<0.05	0.5	0.005	0.04
L843924		190	5.1	15.0	0.004	0.05	1.62	3.1	1	0.5	666	0.18	<0.05	2.4	0.072	0.09
L843925		260	46.6	146.5	0.027	3.12	77.9	18.9	4	2.3	115.5	0.73	0.09	11.1	0.467	1.19
L843926		2950	4.8	23.7	0.002	0.05	7.88	7.2	1	0.5	214	0.11	<0.05	2.1	0.069	0.25
L843927		60	7.7	17.4	0.006	0.03	13.10	2.1	1	0.4	10.8	0.07	<0.05	1.2	0.052	0.14
L843928		420	29.8	65.3	0.013	1.59	35.8	9.3	3	1.2	41.5	0.30	0.06	4.7	0.191	0.39
L843929		40	2.8	10.7	0.002	0.01	7.13	1.4	<1	0.3	6.5	<0.05	<0.05	0.7	0.032	0.09
L843930		20	1.3	4.9	<0.002	<0.01	5.70	0.7	<1	0.2	5.3	<0.05	<0.05	0.2	0.012	0.14
L843931		290	30.7	92.3	0.018	1.30	42.0	13.8	4	1.5	42.6	0.45	0.08	7.5	0.302	0.59
L843932		270	1.3	5.7	<0.002	0.01	2.36	1.5	<1	0.3	535	0.05	<0.05	0.7	0.036	0.03
L843933		750	5.6	25.9	<0.002	0.06	4.38	8.6	1	0.6	585	0.24	<0.05	3.4	0.184	0.18
L843934		20	0.8	4.1	<0.002	<0.01	2.72	0.6	<1	0.2	3.9	<0.05	<0.05	0.4	0.015	0.03
L843935		300	2.3	14.0	<0.002	0.01	6.30	2.9	<1	0.4	33.8	0.08	<0.05	1.6	0.061	0.14
L843936		110	7.7	8.7	<0.002	>10.0	2.62	2.9	7	0.3	12.2	0.09	0.06	1.8	0.055	1.65
L843937		260	26.7	22.0	0.002	0.07	5.20	10.7	3	0.6	32.5	0.17	0.06	6.1	0.122	0.23
L843938		270	2.4	14.9	<0.002	0.03	4.31	4.6	<1	0.3	29.0	0.09	<0.05	1.3	0.087	0.10
L843939		250	7.4	61.1	0.007	0.02	13.30	11.6	2	1.1	48.1	0.32	<0.05	5.7	0.222	0.44

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10	Sb- AA08	
	Analyte	U	V	W	Y	Zn	Zn	As	Hg	Sb	Sb	
	Units	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%	%	
LOR		0.1	1	0.1	0.1	2	0.001	0.001	0.1	0.01	0.01	
L843850		5.0	205	1.6	16.8	29	146.5					
L843901		3.7	153	1.1	16.2	72	111.5					
L843902		1.7	78	1.2	10.1	39	77.5					
L843903		0.1	8	0.1	0.5	9	4.5					
L843904		2.6	176	3.7	18.0	157	128.0					
L843905		0.6	43	2.0	6.7	38	33.7					
L843906		1.9	73	4.1	7.4	197	45.9					
L843907		0.3	21	1.1	2.5	18	14.8					
L843908		0.1	4	0.2	0.5	17	2.3					
L843909		1.3	141	3.2	26.1	535	71.1					
L843910		0.1	5	0.1	1.3	21	1.6					
L843911		0.5	56	1.3	4.2	20	23.4					
L843912		0.5	54	1.3	4.2	17	23.2					
L843913		1.1	95	1.0	7.5	26	62.7					
L843914		0.6	70	1.7	4.5	36	46.0					
L843915		0.8	100	2.2	6.4	52	47.0					
L843916		0.8	64	3.3	6.8	15	42.1					
L843917		0.3	35	1.4	2.3	21	17.2					
L843918		0.4	42	1.7	2.8	21	22.4					
L843919		1.0	144	2.1	7.8	53	57.1					
L843920		0.5	60	2.5	4.3	41	28.5					
L843921		0.2	10	0.2	2.3	5	4.3					
L843922		0.2	9	0.2	1.0	13	4.9					
L843923		0.2	3	0.1	20.0	48	2.8					
L843924		3.0	53	0.3	10.4	21	22.5					
L843925		5.4	174	5.1	16.2	105	111.0					
L843926		1.5	39	0.6	23.0	70	50.0					
L843927		0.6	23	0.5	2.5	24	11.2					
L843928		2.3	81	1.8	9.9	47	48.3					
L843929		0.4	15	0.3	1.8	25	7.2					
L843930		0.1	6	0.2	0.9	10	2.6					
L843931		3.8	129	3.3	11.9	63	67.7					
L843932		0.2	12	0.1	2.8	11	10.3					
L843933		0.9	46	1.7	19.8	57	40.8					
L843934		0.1	4	0.3	0.7	6	3.4					
L843935		0.7	24	0.3	5.8	39	13.7					
L843936		0.3	23	0.1	3.1	77	14.1					
L843937		2.0	67	0.2	26.7	252	38.1					
L843938		0.3	17	0.3	6.3	28	14.2					
L843939		1.7	68	0.5	27.8	209	52.4					





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Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843940		0.21	<0.01	0.03	1.35	11.3	50	0.43	0.03	0.04	0.05	22.3	6.9	22	1.86	34.4
L843941		0.18	0.01	0.02	1.72	14.9	240	0.37	0.04	0.04	0.07	13.25	7.3	19	0.83	31.0
L843942		0.24	0.05	0.12	1.45	16.6	40	0.34	0.05	0.10	0.17	21.1	3.8	22	0.58	19.6
L843943		0.30	0.03	0.06	0.69	17	40	0.16	0.03	17.05	0.04	11.80	1.7	13	0.27	11.0
L843944		0.17	<0.01	0.02	0.80	12.8	40	0.19	0.01	0.10	0.24	5.04	9.4	18	0.70	5.0
L843945		0.13	0.01	0.08	2.55	14.0	140	0.82	0.09	0.16	0.26	33.9	5.6	35	2.03	19.1
L843946		0.15	<0.01	0.09	0.23	28.9	40	<0.05	0.02	0.01	<0.02	1.31	0.6	15	0.26	6.9
L843947		0.13	0.01	0.23	4.28	35.6	270	0.83	0.23	0.02	0.04	53.7	1.2	47	5.36	8.3
L843948		0.05	<0.01	0.02	0.07	3.9	10	<0.05	0.01	0.02	0.02	0.30	0.5	36	0.19	3.6
L843949		0.06	<0.01	0.04	1.96	5.0	80	0.40	0.09	0.07	0.10	15.20	9.0	22	1.86	15.7
L843950		0.09	0.01	0.05	2.35	4.3	130	0.51	0.12	0.02	<0.02	66.0	1.3	28	4.79	4.7
L843851		0.16	1.41	0.01	0.14	5.3	10	<0.05	0.02	0.02	<0.02	0.26	0.3	16	0.41	2.8
L843852		0.16	0.01	0.04	1.65	8.1	100	0.39	0.08	0.02	0.03	31.7	1.5	22	3.72	3.6
L843853		0.19	<0.01	<0.01	0.21	2.8	20	0.05	0.02	0.01	<0.02	1.53	0.4	18	0.31	2.9
L843854		0.15	<0.01	0.03	7.55	35.9	480	1.92	0.32	0.05	0.11	75.5	11.5	91	13.30	54.3

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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843940		2.28	3.46	0.06	0.4	1.22	0.032	0.34	8.5	62.3	0.06	112	0.58	0.01	1.6	15.0
L843941		1.72	2.55	<0.05	0.6	1.44	0.011	0.18	6.1	13.3	0.04	451	0.89	0.57	1.5	11.2
L843942		2.29	2.16	0.07	0.7	0.60	0.013	0.14	11.3	5.6	0.03	348	0.49	0.83	1.9	11.4
L843943		1.11	1.14	<0.05	0.4	0.32	0.009	0.08	6.2	3.2	0.16	167	0.36	0.42	1.0	4.4
L843944		1.00	1.35	<0.05	0.2	0.13	0.011	0.17	2.1	8.7	0.03	556	0.39	0.21	0.6	19.9
L843945		2.38	5.05	0.09	1.3	0.23	0.024	0.65	16.4	9.3	0.13	532	1.44	0.65	3.5	18.2
L843946		0.71	0.52	0.05	<0.1	0.03	0.007	0.07	0.7	3.8	0.01	44	0.31	0.02	0.2	2.5
L843947		1.95	11.80	0.11	2.5	1.58	0.037	1.76	23.8	11.0	0.32	39	10.45	0.35	8.4	3.7
L843948		1.05	0.25	<0.05	<0.1	0.04	<0.005	0.02	<0.5	2.0	<0.01	99	0.59	0.01	0.1	3.1
L843949		3.18	4.04	0.07	0.9	0.13	0.017	0.30	7.6	29.6	0.33	1320	0.72	0.63	2.3	14.0
L843950		0.89	6.07	0.09	1.2	0.23	0.021	0.80	21.5	55.2	0.14	59	0.41	0.12	3.7	3.9
L843851		0.44	0.35	0.05	<0.1	0.08	<0.005	0.05	<0.5	4.4	0.01	41	0.24	0.01	0.1	1.5
L843852		1.27	4.07	0.07	1.0	0.20	0.019	0.64	16.1	10.2	0.11	83	0.93	0.09	3.3	3.5
L843853		0.53	0.54	<0.05	<0.1	0.04	0.006	0.07	0.8	4.8	0.01	29	0.22	0.03	0.3	1.5
L843854		11.75	22.4	0.13	2.7	0.49	0.081	2.91	40.4	41.3	0.98	163	0.56	0.36	9.9	26.5

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Project: ATAC- Regional Area B

**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
L843940	180	6.7	15.2	<0.002	0.01	9.85	3.8	1	0.5	20.6	0.11	<0.05	2.5	0.080	0.27	
L843941	340	3.3	10.2	<0.002	0.01	22.6	2.4	1	0.5	157.5	0.12	<0.05	2.7	0.075	0.07	
L843942	300	10.6	6.6	<0.002	0.03	9.73	3.8	1	0.4	20.9	0.12	<0.05	2.9	0.095	0.16	
L843943	110	5.9	3.6	<0.002	0.73	5.66	1.5	<1	0.2	678	0.07	<0.05	1.6	0.051	0.09	
L843944	220	2.1	7.7	<0.002	0.01	5.45	1.8	1	0.3	58.8	<0.05	<0.05	0.7	0.031	0.10	
L843945	600	7.8	29.9	0.002	0.03	6.15	5.5	1	0.7	97.8	0.26	<0.05	4.8	0.178	0.24	
L843946	50	1.8	3.2	<0.002	<0.01	1.75	0.4	<1	0.2	11.5	<0.05	<0.05	0.3	0.012	0.04	
L843947	130	43.3	82.0	<0.002	0.05	15.55	10.4	4	1.6	17.4	0.62	<0.05	6.5	0.435	0.41	
L843948	10	0.6	0.9	<0.002	<0.01	3.53	0.1	<1	0.3	2.5	<0.05	<0.05	<0.2	<0.005	0.02	
L843949	240	6.4	15.1	<0.002	0.01	2.82	2.9	1	0.7	25.0	0.21	<0.05	3.5	0.118	0.11	
L843950	60	9.7	38.7	<0.002	0.02	3.22	3.7	<1	0.8	15.7	0.28	<0.05	3.5	0.162	0.19	
L843851	20	0.8	2.4	<0.002	<0.01	3.10	0.1	<1	0.2	4.6	<0.05	<0.05	<0.2	<0.005	<0.02	
L843852	70	16.0	28.8	<0.002	0.02	3.26	3.8	1	0.6	8.1	0.25	0.07	2.8	0.153	0.14	
L843853	30	0.8	3.2	<0.002	<0.01	1.93	0.3	<1	0.2	8.8	<0.05	<0.05	0.3	0.013	0.02	
L843854	650	20.5	136.5	<0.002	0.02	4.72	19.1	1	2.5	30.2	0.74	0.07	11.5	0.498	0.81	

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**CERTIFICATE OF ANALYSIS WH12188092**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62	As- OG62	Hg- CV42	Sb- XRF10	Sb- AA08	
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	As %	Hg ppm	Sb %	Sb %
		0.1	1	0.1	0.1	2	0.5	0.001	0.001	0.1	0.01	0.01
L843940		0.5	30	0.2	4.5	75	16.7					
L843941		0.6	27	0.4	3.7	28	21.0					
L843942		1.4	26	0.4	18.8	25	26.9					
L843943		0.7	13	0.2	5.1	11	16.5					
L843944		0.3	12	0.2	8.6	48	8.2					
L843945		1.8	52	0.9	13.9	35	47.3					
L843946		0.1	4	<0.1	0.4	5	2.4					
L843947		1.7	96	0.9	13.8	35	90.6					
L843948		<0.1	1	<0.1	0.1	2	0.7					
L843949		0.9	32	0.1	8.8	32	37.5					
L843950		0.8	32	0.4	7.1	11	43.5					
L843851		<0.1	2	<0.1	0.2	2	0.7					
L843852		0.8	30	0.3	7.2	27	40.2					
L843853		0.1	4	<0.1	0.4	3	2.7					
L843854		2.0	167	1.3	14.0	68	99.5					

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**CERTIFICATE OF ANALYSIS WH12188092**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
Hg- CV42	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12190159**

Project: ATAC- Regional - Area B  
 P.O. No.: R22  
 This report is for 26 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
Au- GRA22	Au 50 g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 27- AUG- 2012  
 Account: RCM

Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12190159**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	Au- GRA22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
L843855		0.32	0.53		23.3	0.40	488	50	0.07	103.5	6.40	<0.02	2.38	0.2	21	0.36
L843856		0.27	0.44		1.45	0.24	4060	10	<0.05	99.7	2.27	0.08	1.53	0.2	12	0.11
L843857		0.20	1.08		2.40	0.36	250	10	0.07	35.3	0.83	<0.02	0.52	0.1	21	0.11
L843858		0.51	0.12		0.62	2.42	785	660	1.45	88.2	2.78	<0.02	22.8	0.8	122	2.65
L843859		0.60	0.09		0.07	0.05	68	10	0.16	3.00	16.20	0.26	7.51	1.3	6	0.37
L843860		0.27	0.08		0.56	1.77	462	1020	1.58	152.5	0.11	<0.02	23.3	0.2	228	1.47
L843861		0.81	0.05		0.15	0.20	500	30	0.83	24.7	16.95	0.23	8.22	1.9	9	0.24
L843862		0.45	3.19		3.66	0.42	434	40	0.08	3.48	1.34	0.02	11.65	0.3	27	0.21
L843863		0.34	2.32		3.01	1.09	247	60	0.71	117.5	0.17	0.05	9.15	0.2	120	0.85
L843864		0.64	0.37		0.44	0.39	900	20	1.69	102.5	14.15	0.49	13.75	5.2	46	0.24
L843865		0.81	0.24		0.36	0.30	689	30	0.63	258	13.80	0.21	17.25	2.8	18	0.35
L843866		0.26	1.98		2.61	0.14	680	40	<0.05	5.68	1.83	0.03	5.06	0.3	9	<0.05
L843867		0.62	0.06		0.66	2.67	111	550	1.50	13.40	11.70	0.16	9.65	2.4	119	2.87
L843868		0.44	0.02		0.03	0.07	26	190	1.16	0.34	27.3	0.28	2.82	2.7	7	0.07
L843869		0.18	>100	122.0	1.34	1.26	1225	540	0.24	1.50	0.26	0.25	12.80	0.7	33	2.22
L843870		0.35	>100	125.0	1.37	1.44	929	490	0.24	0.36	0.18	0.23	14.85	0.6	37	2.40
L843871		0.10	84.2		1.12	1.29	1360	620	0.27	0.18	0.12	0.22	14.80	1.1	39	3.37
L843872		0.48	>100	139.0	1.40	1.02	1340	610	0.17	0.11	0.11	0.24	12.45	0.8	31	2.70
L843873		0.25	0.73		0.18	1.15	85.8	1990	0.35	0.13	9.41	0.18	71.0	2.8	30	4.45
L843874		0.10	0.34		1.10	4.12	82.8	430	1.24	0.24	1.35	0.37	43.9	6.2	93	20.3
L843875		0.26	0.08		1.07	6.02	120.5	2350	1.73	0.27	0.10	0.13	56.4	4.5	124	31.1
L843876		0.16	5.01		1.19	3.56	94.2	760	0.78	0.18	0.08	0.13	43.7	0.7	71	11.40
L843877		0.40	0.04		0.01	0.01	2.0	2600	<0.05	0.01	0.01	0.02	0.17	<0.1	<1	<0.05
L843878		0.16	0.19		2.49	3.27	406	4800	1.21	0.20	0.81	2.36	36.1	3.8	142	10.10
L843879		0.17	0.04		1.18	3.27	483	5290	2.13	0.37	1.65	2.31	35.7	6.7	209	23.4
L843880		0.32	0.04		0.10	0.08	40	180	0.08	0.02	26.1	0.25	1.10	0.8	3	0.11

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12190159**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
L843855		7.0	8.10	2.05	0.22	0.2	0.05	0.014	1.41	1.5	0.8	0.12	16	9.02	0.13
L843856		19.3	17.65	1.27	0.35	0.1	0.02	0.020	0.15	1.0	0.7	0.08	167	18.85	0.04
L843857		3.4	1.72	1.81	0.06	0.1	0.04	<0.005	0.04	<0.5	1.0	0.12	33	4.69	0.04
L843858		61.2	8.17	6.87	0.18	0.8	0.04	0.120	1.16	18.5	8.7	1.60	401	20.1	0.02
L843859		8.9	2.74	0.63	0.09	0.1	0.03	0.176	0.01	3.4	2.2	8.27	5860	1.83	0.01
L843860		3.8	3.76	5.55	0.14	0.7	0.75	0.016	0.85	21.6	5.7	0.18	74	25.2	0.02
L843861		11.2	7.95	0.72	0.15	0.2	0.01	0.042	0.03	5.8	1.6	4.34	1880	9.65	0.01
L843862		4.2	6.17	2.19	0.27	0.2	0.05	0.005	0.02	9.4	1.3	0.13	44	1.59	0.04
L843863		4.1	1.61	3.79	0.22	0.5	0.04	0.008	0.45	8.4	3.6	0.17	84	9.90	0.04
L843864		69.5	12.70	1.30	0.25	0.2	<0.1	0.118	0.04	8.5	2.6	1.18	3590	18.30	0.01
L843865		23.6	11.45	1.28	0.22	0.2	0.01	0.203	0.04	8.8	1.7	2.77	4650	27.0	0.02
L843866		7.2	19.55	0.79	0.46	0.1	0.03	0.008	0.01	3.4	0.7	0.06	62	14.95	0.01
L843867		18.2	3.61	7.59	0.13	0.5	0.02	0.061	1.27	8.2	14.1	5.42	2170	17.35	0.02
L843868		1.6	0.25	0.27	0.10	<0.1	0.06	0.005	0.02	5.0	1.3	9.34	266	4.84	0.01
L843869		31.2	0.68	3.75	0.08	0.7	>100	0.037	0.44	9.2	66.4	0.09	63	0.76	0.01
L843870		32.0	0.54	4.19	0.07	0.7	>100	0.042	0.51	10.7	65.8	0.08	38	0.67	0.01
L843871		20.4	0.73	3.85	0.08	0.6	>100	0.030	0.44	10.4	71.1	0.06	47	1.01	0.01
L843872		19.0	0.56	3.01	0.07	0.5	>100	0.044	0.35	9.2	71.7	0.05	32	0.73	0.01
L843873		9.8	4.03	1.98	0.28	0.5	3.31	0.009	0.39	34.8	11.1	1.45	221	2.89	0.02
L843874		48.5	3.03	11.30	0.16	1.9	1.75	0.045	1.34	27.5	18.5	0.45	151	4.02	0.04
L843875		48.3	2.42	17.05	0.19	2.6	0.88	0.055	1.98	36.4	21.8	0.28	52	6.74	0.05
L843876		8.4	0.71	10.75	0.13	1.9	42.0	0.017	1.26	28.1	18.1	0.17	22	1.84	0.03
L843877		1.3	0.02	<0.05	0.09	<0.1	0.18	<0.005	<0.01	<0.5	0.3	<0.01	<5	0.09	0.01
L843878		88.7	17.80	10.05	0.31	1.4	1.23	0.131	1.07	27.0	13.1	0.18	71	18.00	0.05
L843879		172.5	13.65	11.05	0.29	1.5	0.41	0.117	0.90	29.1	37.2	0.20	108	33.4	0.03
L843880		1.4	0.14	0.20	0.07	<0.1	0.17	<0.005	0.02	1.0	0.7	11.35	84	0.24	0.01

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12190159**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
L843855		5.5	120	33.0	26.3	0.140	8.44	0.67	0.6	31	5.5	151.5	0.07	0.06	<0.2	0.019
L843856		21.5	580	6.8	3.0	0.024	2.60	6.26	0.7	45	2.5	27.6	<0.05	0.21	0.2	0.007
L843857		2.4	100	2.7	1.6	0.025	0.89	1.51	1.0	6	3.2	12.7	<0.05	<0.05	<0.2	0.014
L843858		25.8	1430	22.9	69.5	0.050	0.36	14.55	6.1	10	32.3	51.0	0.22	0.50	2.9	0.105
L843859		51.1	150	2.9	0.9	<0.002	0.99	1.09	11.3	2	3.1	91.0	<0.05	<0.05	<0.2	<0.005
L843860		10.4	230	7.5	52.9	0.179	0.14	6.56	7.1	8	30.6	8.8	0.11	0.40	1.6	0.062
L843861		81.9	920	4.7	1.9	0.009	8.39	3.28	2.7	6	1.4	192.0	<0.05	0.11	0.4	0.007
L843862		7.3	40	2.6	1.6	0.085	>10.0	0.48	1.1	54	4.8	8.6	0.07	<0.05	<0.2	0.023
L843863		9.5	120	17.2	29.0	0.059	6.86	3.42	4.1	40	18.8	15.8	0.13	0.13	0.7	0.052
L843864		208	5060	6.5	2.5	0.021	>10.0	3.52	8.8	20	2.2	61.1	<0.05	0.24	2.3	0.006
L843865		136.5	2880	9.7	3.2	0.018	6.95	6.62	4.5	17	2.8	57.6	<0.05	0.31	0.6	0.009
L843866		23.6	70	6.2	0.4	0.068	>10.0	1.46	0.4	76	2.3	5.9	<0.05	0.06	0.2	0.011
L843867		94.3	1170	3.1	85.0	0.015	2.38	2.76	9.9	11	37.8	151.0	0.08	0.14	1.2	0.062
L843868		13.8	90	1.5	1.0	0.009	0.08	0.21	0.3	1	0.4	375	<0.05	<0.05	<0.2	<0.005
L843869		6.3	230	4.2	26.4	<0.002	0.08	1.49	3.6	3	4.2	54.2	0.13	<0.05	1.9	0.065
L843870		5.3	180	4.9	29.5	<0.002	0.07	1.33	3.6	3	4.3	53.5	0.16	<0.05	2.2	0.078
L843871		7.4	170	4.7	27.0	<0.002	0.06	1.16	3.4	2	3.2	54.1	0.15	<0.05	2.2	0.075
L843872		5.7	180	4.6	21.7	<0.002	0.05	1.58	3.1	3	4.9	57.8	0.12	<0.05	1.9	0.059
L843873		37.5	600	2.0	21.7	0.007	0.58	0.72	32.2	4	0.3	741	0.12	<0.05	3.6	0.048
L843874		52.5	450	11.4	96.1	0.013	1.08	2.33	12.3	5	1.3	140.5	0.52	0.10	7.0	0.233
L843875		33.4	410	15.4	145.5	0.022	0.34	3.42	12.4	5	1.9	108.0	0.72	0.12	8.4	0.329
L843876		8.6	140	12.2	81.5	0.014	0.15	1.27	5.0	3	1.8	66.3	0.49	0.06	7.0	0.247
L843877		0.7	10	<0.5	0.3	<0.002	0.10	<0.05	0.1	<1	<0.2	156.5	<0.05	<0.05	<0.2	<0.005
L843878		67.0	>10000	11.5	65.5	0.011	0.27	5.32	19.6	23	1.2	228	0.39	0.14	9.9	0.181
L843879		165.5	4340	9.7	65.8	0.022	0.22	7.80	21.5	18	1.0	436	0.35	0.12	5.9	0.162
L843880		2.8	100	8.8	1.3	<0.002	0.01	0.48	0.3	1	<0.2	123.0	<0.05	<0.05	<0.2	<0.005

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12190159**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV42
		Tl	U	V	W	Y	Zn	Zr	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5	0.1
L843855		2.05	1.7	400	13.5	6.1	3	14.5	
L843856		0.69	2.1	115	2.7	0.5	42	11.1	
L843857		0.13	1.6	127	2.7	0.4	5	7.7	
L843858		1.89	4.2	526	3.1	5.3	152	34.0	
L843859		0.09	1.7	79	0.8	29.3	143	2.2	
L843860		0.92	3.6	1040	4.5	5.6	26	36.7	
L843861		0.30	10.1	169	2.4	24.2	310	12.2	
L843862		0.04	0.8	285	9.7	1.9	4	11.1	
L843863		0.62	1.9	671	9.3	8.7	14	23.0	
L843864		0.26	26.4	187	3.1	41.6	250	14.4	
L843865		0.48	6.0	254	2.9	45.5	147	15.1	
L843866		0.02	0.8	83	2.6	2.5	<2	6.7	
L843867		1.94	4.9	739	2.5	19.7	72	42.6	
L843868		0.05	2.4	27	0.4	8.6	93	1.4	
L843869		12.70	1.5	56	1.8	4.6	15	26.5	505
L843870		13.85	1.6	63	2.1	4.7	13	30.1	481
L843871		20.0	1.5	57	2.1	5.5	22	25.5	371
L843872		15.90	1.4	44	1.6	4.5	17	24.0	532
L843873		2.34	7.0	50	0.3	75.3	56	17.1	
L843874		2.73	5.0	170	1.0	24.5	176	67.0	
L843875		7.09	5.1	212	1.6	21.6	99	89.7	
L843876		16.85	3.3	176	5.7	14.6	12	73.5	
L843877		0.04	0.1	1	<0.1	0.2	<2	<0.5	
L843878		2.78	12.6	373	1.6	37.6	230	54.5	
L843879		1.34	9.0	353	2.2	27.1	574	56.9	
L843880		0.04	0.5	4	0.1	3.6	19	1.3	

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12190159**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
Hg- CV42	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12193036**

Project: ATAC- Regional - Area E/D  
 P.O. No.: Soil 31  
 This report is for 235 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: RCM

Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ51420		0.15	0.003	2.99	0.86	17.9	<0.2	<10	2060	0.69	0.15	1.67	15.85	12.15	8.6	31
ZZ51421		0.17	0.005	3.45	1.33	34.9	<0.2	<10	780	0.72	0.26	0.15	1.10	17.95	4.5	40
ZZ51422		0.19	0.003	1.17	0.70	27.8	<0.2	<10	350	0.26	0.20	0.08	0.35	12.65	2.6	18
ZZ51423		0.19	0.001	0.40	0.37	36.6	<0.2	<10	230	0.13	0.28	0.01	0.13	6.77	2.1	9
ZZ51424		0.18	0.002	1.73	0.35	18.6	<0.2	<10	300	0.14	0.19	0.01	0.28	6.50	0.8	10
ZZ51425		0.20	0.003	0.36	0.43	16.8	<0.2	<10	290	0.16	0.24	0.02	0.20	9.34	1.8	12
ZZ51426		0.19	0.003	1.41	0.34	12.8	<0.2	<10	740	0.19	0.34	0.03	0.17	8.81	1.1	15
ZZ51427		0.13	0.004	0.20	0.90	14.2	<0.2	<10	290	0.36	0.30	0.31	0.52	13.75	6.4	17
ZZ51428		0.18	0.002	0.27	0.99	22.5	<0.2	<10	250	0.46	0.19	0.17	0.46	14.30	8.2	20
ZZ51429		0.16	0.008	0.68	0.45	20.7	<0.2	<10	220	0.71	0.21	0.67	1.27	23.8	13.9	9
ZZ51430		0.15	0.017	0.43	0.57	16.9	<0.2	<10	210	0.65	0.20	0.55	0.63	39.9	14.1	13
ZZ51431		0.15	0.008	0.65	0.36	22.0	<0.2	<10	160	0.72	0.19	1.08	0.83	26.9	16.5	11
ZZ51432		0.19	0.010	0.74	0.29	24.8	<0.2	<10	140	0.73	0.20	1.42	1.06	26.3	19.0	10
ZZ51433		0.17	0.010	0.89	0.31	24.0	<0.2	<10	130	0.80	0.22	1.33	1.10	19.75	17.8	8
ZZ51434		0.16	0.011	1.05	0.26	24.1	<0.2	<10	90	0.81	0.22	1.18	0.98	12.95	12.9	7
ZZ51435		0.16	0.012	0.83	0.26	22.5	<0.2	<10	120	0.77	0.23	1.32	0.98	23.6	20.6	8
ZZ51436		0.15	0.019	0.73	0.51	52.6	<0.2	<10	200	0.69	0.21	0.94	0.74	41.7	17.3	13
ZZ51437		0.16	0.004	0.23	0.70	35.2	<0.2	<10	130	0.53	0.20	0.13	0.25	36.4	12.2	14
ZZ51484		0.10	0.014	0.81	0.65	33.2	<0.2	<10	230	0.68	0.19	0.39	1.41	48.0	15.3	13
ZZ51485		0.14	0.012	0.24	1.14	13.0	<0.2	<10	350	0.72	0.15	0.78	0.28	47.1	17.1	20
ZZ51486		0.19	0.007	0.18	1.60	11.9	<0.2	<10	240	0.75	0.15	0.21	0.40	43.3	16.8	25
ZZ51487		0.13	0.003	0.16	1.41	17.9	<0.2	<10	160	0.64	0.20	0.11	0.56	37.4	15.2	27
ZZ51488		0.15	0.004	0.16	1.48	15.9	<0.2	<10	410	0.80	0.19	0.33	0.41	62.6	14.9	31
ZZ51489		0.11	0.003	0.87	0.51	16.2	<0.2	<10	120	0.80	0.16	0.68	2.84	65.6	25.2	25
ZZ51490		0.16	0.002	0.19	1.50	16.4	<0.2	<10	100	0.81	0.16	0.16	0.99	51.9	18.9	29
ZZ51491		0.15	0.004	0.32	0.77	15.2	<0.2	<10	80	0.60	0.19	0.08	1.03	21.2	8.8	18
ZZ51492		0.18	0.002	0.64	1.08	16.1	<0.2	<10	250	0.69	0.17	0.47	1.39	63.0	30.3	32
ZZ51493		0.18	0.002	0.06	1.65	13.0	<0.2	<10	160	0.55	0.19	0.11	0.26	40.7	16.7	28
ZZ51494		0.17	0.002	0.04	2.03	14.1	<0.2	<10	130	0.56	0.22	0.09	0.36	42.9	18.0	36
ZZ51495		0.14	0.020	0.10	2.38	13.3	<0.2	<10	160	0.73	0.35	0.10	0.39	36.9	12.0	37
ZZ51496		0.16	0.006	0.05	1.94	14.4	<0.2	<10	100	0.77	0.16	0.10	0.55	41.9	18.2	37
ZZ51497		0.13	0.007	0.08	2.01	12.5	<0.2	<10	130	0.56	0.24	0.12	0.43	35.1	12.7	38
ZZ51498		0.18	0.002	0.26	1.58	11.8	<0.2	<10	170	0.48	0.23	0.10	0.49	27.7	8.4	31
ZZ51499		0.17	0.001	0.26	1.64	19.1	<0.2	<10	180	0.67	0.25	0.06	0.80	32.2	12.9	32
ZZ51500		0.14	0.002	0.19	1.18	13.3	<0.2	<10	120	0.33	0.22	0.05	0.35	27.7	8.8	29
ZZ40501		0.15	0.002	0.13	1.75	15.6	<0.2	<10	120	0.62	0.27	0.08	0.55	31.8	12.5	30
ZZ40502		0.16	0.003	0.13	1.55	13.7	<0.2	<10	370	0.62	0.24	0.08	0.36	35.0	9.1	36
ZZ40503		0.15	0.002	0.24	1.80	16.8	<0.2	<10	290	0.70	0.24	0.13	0.94	30.3	9.4	32
ZZ40504		0.14	0.002	0.21	1.58	15.1	<0.2	<10	300	0.81	0.20	0.15	0.99	42.8	17.3	29
ZZ40505		0.12	0.006	0.20	1.69	56.4	<0.2	<10	570	1.08	0.30	0.11	0.49	21.0	9.7	26



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ51420		1.16	76.9	1.92	2.05	0.07	0.09	0.47	0.038	0.06	9.7	5.1	0.15	310	6.99	<0.01
ZZ51421		1.68	58.8	2.63	5.08	0.07	0.04	0.44	0.049	0.11	10.2	7.9	0.17	162	19.85	0.01
ZZ51422		0.99	22.3	1.93	3.57	<0.05	<0.02	0.20	0.032	0.08	7.1	3.5	0.09	69	22.1	0.01
ZZ51423		1.04	14.0	1.69	3.31	<0.05	<0.02	0.06	0.024	0.08	3.5	0.7	0.02	33	38.0	0.01
ZZ51424		0.64	24.1	1.46	2.00	<0.05	0.02	0.24	0.031	0.09	3.6	0.8	0.02	19	25.2	0.01
ZZ51425		0.97	15.1	1.38	3.13	<0.05	<0.02	0.07	0.018	0.07	4.6	1.6	0.04	51	19.00	0.01
ZZ51426		1.34	15.7	1.25	2.06	<0.05	<0.02	0.07	0.032	0.16	4.8	0.8	0.02	126	17.25	0.01
ZZ51427		2.08	28.1	2.96	4.45	0.05	<0.02	0.06	0.040	0.08	6.9	3.0	0.10	314	5.98	0.01
ZZ51428		1.04	24.4	2.80	3.75	0.05	<0.02	0.06	0.029	0.07	6.9	9.9	0.24	298	12.05	0.01
ZZ51429		0.64	59.9	3.30	1.25	0.07	0.12	0.18	0.050	0.07	10.3	2.6	0.06	423	7.08	0.01
ZZ51430		1.17	59.3	3.80	1.65	0.09	0.09	0.14	0.050	0.08	18.6	3.8	0.10	297	5.63	0.01
ZZ51431		1.19	71.3	4.06	1.09	0.09	0.12	0.26	0.052	0.09	13.5	1.9	0.25	284	5.89	0.01
ZZ51432		1.55	74.7	4.44	0.95	0.09	0.08	0.33	0.051	0.10	12.8	1.7	0.26	460	6.51	0.01
ZZ51433		1.48	80.1	4.24	0.94	0.08	0.08	0.37	0.052	0.10	9.5	1.5	0.24	381	6.83	0.01
ZZ51434		0.79	67.5	3.68	0.76	0.07	0.09	0.40	0.050	0.06	6.8	1.4	0.09	307	7.49	0.01
ZZ51435		2.13	89.3	4.40	0.99	0.10	0.08	0.21	0.054	0.10	11.1	1.8	0.42	503	6.71	0.01
ZZ51436		1.61	100.5	4.15	1.93	0.09	0.04	0.60	0.048	0.10	23.6	5.3	0.19	511	5.85	0.01
ZZ51437		1.45	44.4	3.74	2.85	0.08	0.03	0.36	0.038	0.08	19.6	2.3	0.06	259	3.85	0.01
ZZ51484		1.33	57.7	4.34	1.52	0.10	0.06	0.26	0.043	0.07	22.8	5.8	0.11	483	14.15	0.01
ZZ51485		1.08	37.5	3.92	3.86	0.08	0.06	0.08	0.042	0.11	22.9	8.2	0.16	627	3.08	0.01
ZZ51486		1.56	31.0	4.23	4.85	0.08	0.04	0.05	0.045	0.11	20.1	13.4	0.25	627	3.19	0.01
ZZ51487		1.36	36.6	4.23	4.39	0.08	0.04	0.07	0.044	0.11	17.1	13.1	0.25	567	2.93	0.01
ZZ51488		1.03	35.9	4.02	4.67	0.12	0.09	0.04	0.042	0.11	28.0	19.4	0.49	558	2.46	0.01
ZZ51489		4.38	64.0	5.61	1.74	0.16	0.07	0.18	0.060	0.11	31.8	5.0	0.12	881	6.77	0.02
ZZ51490		1.97	49.5	4.37	4.40	0.10	0.07	0.05	0.042	0.07	22.0	20.6	0.39	614	6.34	0.01
ZZ51491		1.63	43.3	2.99	2.83	0.06	0.02	0.10	0.031	0.07	10.2	5.6	0.12	176	7.41	0.01
ZZ51492		2.35	59.9	5.12	3.68	0.10	0.04	0.16	0.049	0.08	30.3	18.3	0.43	780	7.30	0.01
ZZ51493		2.59	27.4	4.38	5.41	<0.05	0.03	0.08	0.036	0.07	19.3	15.9	0.37	470	3.16	0.01
ZZ51494		1.94	28.5	4.25	6.71	<0.05	<0.02	0.04	0.039	0.06	18.5	21.3	0.56	852	3.29	<0.01
ZZ51495		1.83	21.9	3.79	7.05	0.05	0.02	0.06	0.032	0.07	17.9	22.1	0.52	474	2.40	0.01
ZZ51496		1.56	35.5	4.72	5.44	0.06	0.06	0.05	0.037	0.08	21.0	18.5	0.55	469	4.23	0.01
ZZ51497		2.13	25.0	3.50	6.86	<0.05	<0.02	0.06	0.031	0.09	17.2	19.9	0.50	647	2.33	0.01
ZZ51498		1.56	21.6	3.31	5.30	0.05	0.02	0.04	0.034	0.08	12.8	12.4	0.32	478	3.87	0.02
ZZ51499		1.27	37.3	4.68	5.67	0.05	0.04	0.05	0.041	0.08	13.9	13.4	0.37	421	6.41	0.02
ZZ51500		1.11	26.9	4.06	5.66	0.05	<0.02	0.04	0.031	0.10	12.7	5.5	0.19	394	4.70	0.02
ZZ40501		1.22	25.1	4.15	6.21	0.05	<0.02	0.03	0.042	0.08	15.2	21.1	0.39	486	3.26	0.02
ZZ40502		1.30	28.8	3.72	5.74	0.05	<0.02	0.04	0.033	0.07	16.7	14.9	0.32	337	3.50	0.02
ZZ40503		1.03	21.9	3.18	4.97	0.05	0.02	0.09	0.039	0.07	14.2	18.0	0.37	353	4.12	0.02
ZZ40504		1.18	41.1	4.68	4.65	0.07	0.04	0.07	0.045	0.09	19.3	17.0	0.36	927	4.52	0.02
ZZ40505		2.52	18.5	3.59	4.88	<0.05	0.09	0.18	0.034	0.06	9.6	25.0	0.38	307	1.54	0.02





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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ51420		0.30	104.0	2470	10.0	6.3	0.007	0.14	4.79	3.5	7.3	0.5	109.5	0.01	0.10	0.7
ZZ51421		0.17	22.3	4970	17.1	12.2	0.002	0.17	5.13	0.9	9.5	0.8	78.7	0.01	0.13	0.2
ZZ51422		0.44	15.2	1280	13.8	10.4	0.003	0.18	4.43	0.9	6.2	0.6	50.6	<0.01	0.10	0.2
ZZ51423		0.34	17.4	410	19.3	11.3	0.001	0.13	5.62	1.0	3.6	0.6	32.4	<0.01	0.13	0.3
ZZ51424		0.31	8.9	1390	14.4	10.1	0.004	0.18	3.64	1.4	4.4	0.4	40.6	<0.01	0.09	1.3
ZZ51425		0.14	11.5	1060	16.9	9.9	0.002	0.11	2.49	0.4	2.4	0.6	34.4	<0.01	0.08	<0.2
ZZ51426		0.08	7.5	1030	20.7	13.3	0.003	0.30	3.23	0.5	4.0	0.6	64.8	<0.01	0.09	<0.2
ZZ51427		0.26	23.7	1210	20.7	12.3	<0.001	0.09	1.60	0.8	1.3	0.7	39.7	<0.01	0.08	<0.2
ZZ51428		0.39	37.6	700	14.9	8.7	0.001	0.10	3.70	1.4	3.0	0.4	32.0	<0.01	0.08	0.3
ZZ51429		0.13	38.7	1590	22.5	6.6	0.001	0.08	2.05	5.6	1.6	0.3	35.9	0.01	0.12	1.5
ZZ51430		0.17	42.2	1850	19.3	7.4	0.001	0.05	1.67	5.3	1.5	0.3	30.6	0.01	0.09	1.5
ZZ51431		0.14	53.0	1860	22.4	5.5	0.002	0.10	1.93	6.9	1.9	0.3	46.6	0.01	0.10	1.8
ZZ51432		0.11	56.1	1640	25.3	5.4	0.002	0.06	2.22	8.2	2.0	0.2	49.5	0.01	0.10	2.8
ZZ51433		0.10	53.5	1710	26.5	5.1	0.002	0.07	2.47	7.5	2.2	0.3	42.8	0.01	0.12	2.7
ZZ51434		0.09	43.7	1210	25.2	3.8	0.002	0.08	2.91	6.5	2.2	0.2	32.9	0.01	0.13	1.5
ZZ51435		0.09	56.4	1980	30.5	5.4	0.002	0.20	2.75	7.9	2.7	0.3	38.2	0.01	0.14	3.8
ZZ51436		0.18	48.0	1500	23.2	6.8	0.002	0.07	2.21	6.1	2.0	0.4	44.7	0.01	0.10	1.5
ZZ51437		0.21	34.5	1400	21.4	8.5	0.001	0.05	1.14	1.8	1.2	0.4	10.6	<0.01	0.09	0.3
ZZ51484		0.22	54.1	1170	24.5	6.2	0.001	0.07	3.61	6.2	2.3	0.3	22.7	0.01	0.07	2.5
ZZ51485		0.31	32.8	1800	17.0	11.5	<0.001	0.08	1.00	3.7	1.0	0.5	30.9	0.01	0.04	1.0
ZZ51486		0.28	34.0	2360	15.1	12.3	<0.001	0.11	0.81	1.5	0.8	0.5	14.1	0.01	0.04	0.4
ZZ51487		0.26	35.6	2020	19.5	11.8	<0.001	0.07	1.04	1.7	0.8	0.5	10.8	0.01	0.06	0.5
ZZ51488		0.45	41.9	960	16.6	10.0	<0.001	0.04	0.94	5.8	1.1	0.5	19.1	0.01	0.06	2.3
ZZ51489		0.14	80.7	1960	23.2	7.3	0.001	0.07	2.87	8.4	1.6	0.5	30.3	0.01	0.04	3.7
ZZ51490		0.24	54.0	1980	17.5	8.5	0.002	0.05	1.92	2.2	2.0	0.4	13.5	0.01	0.05	1.1
ZZ51491		0.10	30.8	1720	14.9	10.0	0.002	0.07	2.88	0.5	2.0	0.3	9.6	<0.01	0.06	<0.2
ZZ51492		0.10	84.5	1770	24.3	6.5	0.001	0.01	2.86	6.9	1.8	0.5	24.6	<0.01	0.03	4.0
ZZ51493		0.46	33.3	1220	14.0	11.9	<0.001	0.02	1.10	2.7	0.7	0.6	11.3	<0.01	0.04	1.2
ZZ51494		0.38	34.7	1130	17.4	11.3	<0.001	0.03	1.06	1.7	1.0	0.6	10.2	<0.01	0.04	0.6
ZZ51495		0.42	25.7	1360	16.2	14.8	<0.001	0.04	0.97	1.3	0.6	0.7	11.7	<0.01	0.06	0.5
ZZ51496		0.34	38.9	1790	16.8	10.9	0.001	0.03	1.69	2.9	1.1	0.5	10.4	<0.01	0.04	1.5
ZZ51497		0.44	30.4	1390	13.0	16.5	0.001	0.05	1.01	1.3	0.8	0.7	12.5	<0.01	0.04	0.3
ZZ51498		0.17	20.8	1890	13.1	15.9	<0.001	0.05	1.27	0.7	1.4	0.6	15.2	<0.01	0.04	0.3
ZZ51499		0.28	30.8	2030	19.2	12.0	0.001	0.06	2.50	1.6	2.0	0.6	16.2	<0.01	0.07	0.7
ZZ51500		0.22	21.6	2190	14.7	13.9	<0.001	0.07	1.48	0.6	0.8	0.6	12.3	<0.01	0.05	0.2
ZZ40501		0.35	26.3	1200	17.5	11.6	0.001	0.04	1.10	0.8	1.4	0.7	11.1	<0.01	0.05	0.2
ZZ40502		0.25	27.4	1260	16.0	12.4	0.001	0.04	0.89	0.9	1.1	0.6	12.8	<0.01	0.05	0.3
ZZ40503		0.49	32.9	1380	13.6	10.5	<0.001	0.05	1.23	1.5	2.0	0.5	24.2	<0.01	0.08	0.5
ZZ40504		0.23	39.1	2720	18.6	8.0	0.001	0.07	1.42	1.7	1.4	0.5	15.2	<0.01	0.04	0.8
ZZ40505		0.30	23.4	700	19.6	14.4	0.001	0.04	0.55	3.7	0.9	0.5	11.2	<0.01	0.02	2.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ51420		0.008	0.31	5.96	143	0.21	41.0	633	2.3
ZZ51421		0.006	0.99	10.90	249	0.28	15.50	113	0.6
ZZ51422		0.012	1.73	2.87	170	0.28	4.88	58	<0.5
ZZ51423		0.009	2.82	1.53	234	0.25	3.92	110	<0.5
ZZ51424		0.005	1.70	3.05	156	0.25	3.74	35	0.8
ZZ51425		<0.005	1.51	1.88	130	0.16	3.00	50	<0.5
ZZ51426		<0.005	1.46	2.67	101	0.15	4.36	26	<0.5
ZZ51427		0.006	0.56	1.04	73	0.13	5.14	129	<0.5
ZZ51428		0.012	0.79	1.79	106	0.21	5.55	214	<0.5
ZZ51429		<0.005	0.14	1.31	27	0.05	16.85	159	2.9
ZZ51430		<0.005	0.14	1.35	29	0.07	18.50	146	2.0
ZZ51431		<0.005	0.14	1.40	26	<0.05	17.00	166	3.5
ZZ51432		<0.005	0.16	1.15	27	<0.05	16.70	174	2.8
ZZ51433		<0.005	0.15	1.27	24	<0.05	15.45	187	3.3
ZZ51434		<0.005	0.13	1.29	22	<0.05	17.40	174	2.7
ZZ51435		<0.005	0.17	1.37	23	<0.05	16.05	186	4.8
ZZ51436		<0.005	0.19	1.15	35	0.06	17.50	167	0.6
ZZ51437		<0.005	0.19	0.90	34	0.07	8.64	106	<0.5
ZZ51484		0.005	0.38	1.41	30	0.15	21.2	191	1.1
ZZ51485		0.005	0.14	1.10	41	0.10	9.68	96	1.3
ZZ51486		0.005	0.17	0.85	43	0.07	8.58	95	0.6
ZZ51487		0.005	0.17	0.84	45	0.09	7.51	120	0.8
ZZ51488		0.010	0.13	0.96	46	0.15	18.15	106	2.0
ZZ51489		<0.005	0.39	1.06	50	0.05	19.20	280	1.5
ZZ51490		0.006	0.25	0.95	45	0.08	12.00	171	1.4
ZZ51491		<0.005	0.20	1.59	37	0.07	7.34	166	<0.5
ZZ51492		0.005	0.38	1.16	52	<0.05	18.70	217	1.4
ZZ51493		0.015	0.21	0.62	58	0.14	5.25	106	0.5
ZZ51494		0.018	0.20	0.72	61	0.17	5.18	108	<0.5
ZZ51495		0.022	0.17	1.00	65	0.26	5.79	113	<0.5
ZZ51496		0.011	0.17	0.79	57	0.10	7.31	150	1.4
ZZ51497		0.027	0.22	0.90	58	0.19	5.75	119	<0.5
ZZ51498		0.010	0.24	1.21	76	0.17	4.14	106	<0.5
ZZ51499		0.010	0.32	1.39	118	0.15	5.37	150	1.2
ZZ51500		0.009	0.19	0.77	83	0.10	2.90	112	<0.5
ZZ40501		0.013	0.19	0.73	57	0.19	4.55	107	<0.5
ZZ40502		0.011	0.24	0.90	67	0.15	7.47	102	<0.5
ZZ40503		0.021	0.28	1.76	69	0.22	8.34	168	0.5
ZZ40504		0.007	0.19	0.99	55	0.06	9.30	161	0.8
ZZ40505		<0.005	0.28	1.08	37	0.05	8.72	217	1.8



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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40506		0.18	0.002	0.05	1.10	13.2	<0.2	<10	240	0.51	0.40	0.23	0.45	12.20	10.5	22
ZZ40507		0.19	0.001	0.14	1.44	20.4	<0.2	<10	590	0.81	0.27	0.34	0.58	24.5	11.1	25
ZZ40508		0.16	<0.001	0.07	1.66	25.7	<0.2	<10	150	0.99	0.29	0.07	0.65	28.8	15.0	28
ZZ40509		0.20	0.002	0.05	1.49	14.2	<0.2	<10	250	0.69	0.26	0.23	0.51	29.3	10.1	27
ZZ40510		0.20	0.004	0.14	1.46	18.9	<0.2	<10	780	0.91	0.28	0.18	0.69	30.4	11.5	26
ZZ40511		0.10	0.004	0.28	1.26	17.9	<0.2	<10	630	0.72	0.26	0.73	0.48	18.00	8.2	21
ZZ40512		0.20	0.002	0.14	1.59	15.3	<0.2	<10	410	0.81	0.25	0.42	0.39	36.0	12.9	28
ZZ40513		0.18	0.001	0.23	1.38	12.9	<0.2	<10	820	0.73	0.22	0.59	0.82	26.5	13.5	28
ZZ40514		0.20	0.001	0.22	1.19	11.8	<0.2	<10	270	0.68	0.21	0.37	0.37	31.4	9.2	25
ZZ40515		0.23	0.002	0.17	1.10	12.3	<0.2	<10	250	0.76	0.22	0.36	0.26	31.7	9.8	23
ZZ40516		0.17	0.002	0.12	1.13	14.9	<0.2	<10	440	0.71	0.26	0.32	0.18	22.5	8.4	20
ZZ40517		0.23	0.001	0.06	1.23	14.0	<0.2	<10	170	0.58	0.28	0.10	0.28	20.4	8.6	20
ZZ40518		0.20	0.003	0.05	1.54	20.2	<0.2	<10	140	0.81	0.37	0.05	0.26	20.5	17.1	22
ZZ40519		0.27	0.001	0.03	1.51	11.1	<0.2	<10	210	0.81	0.28	0.14	0.24	29.2	9.4	24
ZZ40520		0.15	0.002	0.03	0.65	9.2	<0.2	<10	180	0.90	0.29	0.09	0.27	21.3	13.5	13
ZZ40521		0.21	0.002	0.21	1.28	20.2	<0.2	<10	540	0.62	0.25	0.27	0.39	14.35	6.3	22
ZZ40522		0.19	0.002	0.24	1.19	36.4	<0.2	<10	700	0.69	0.27	0.41	1.04	20.3	10.3	22
ZZ40523		0.19	0.004	0.29	0.95	30.5	<0.2	<10	870	0.64	0.19	0.98	0.87	21.0	7.9	24
ZZ40524		0.21	0.003	0.21	1.54	37.0	<0.2	<10	470	0.83	0.29	0.51	0.50	16.50	8.5	28
ZZ40525		0.26	0.003	0.09	1.74	12.7	<0.2	<10	150	0.65	0.33	0.10	0.31	24.0	10.7	30
ZZ40526		0.16	<0.001	0.12	1.90	13.5	<0.2	<10	290	0.65	0.29	0.15	0.64	26.2	9.1	31
ZZ40527		0.23	0.003	0.06	1.64	18.9	<0.2	<10	700	1.23	0.39	0.53	0.45	23.4	13.5	27
ZZ40528		0.17	0.013	0.54	1.05	14.0	<0.2	<10	240	0.60	0.19	0.99	2.82	36.1	13.0	22
ZZ40529		0.18	0.001	0.13	1.97	16.7	<0.2	<10	140	0.57	0.20	0.07	0.56	47.6	13.6	38
ZZ40530		0.19	0.001	0.06	1.41	22.1	<0.2	<10	90	0.60	0.24	0.19	0.51	37.9	14.7	23
ZZ40531		0.14	0.004	0.30	1.04	18.3	<0.2	<10	290	0.79	0.26	0.40	0.44	21.7	8.5	21
ZZ40532		0.18	0.003	0.16	1.21	13.7	<0.2	<10	190	0.61	0.16	0.26	0.45	53.7	22.0	25
ZZ40533		0.13	0.002	0.09	2.00	17.2	<0.2	<10	150	0.65	0.26	0.27	0.13	33.8	10.0	26
ZZ40534		0.19	0.003	0.07	1.78	12.3	<0.2	<10	150	0.61	0.24	0.11	0.28	43.3	11.8	31
ZZ40535		0.11	0.010	0.11	1.56	6.4	<0.2	<10	160	0.39	0.18	0.33	0.58	38.0	16.5	92
ZZ40536		0.17	0.006	4.10	1.90	31.1	<0.2	<10	2400	1.77	0.21	1.41	18.10	16.15	13.0	67
ZZ40537		0.14	0.005	2.35	1.12	23.0	<0.2	<10	1860	0.69	0.22	2.60	14.80	10.60	15.8	38
ZZ40538		0.16	0.006	0.48	0.62	17.7	<0.2	<10	2130	0.42	0.20	6.25	10.70	13.50	21.6	24
ZZ40539		0.11	0.005	0.41	0.88	8.5	<0.2	<10	990	0.45	0.19	5.37	2.37	17.00	12.2	22
ZZ40540		0.17	0.001	0.36	0.70	13.7	<0.2	<10	1350	0.43	0.25	4.70	3.22	15.20	21.6	18
ZZ40541		0.15	0.001	0.46	0.78	15.5	<0.2	<10	1310	0.54	0.25	6.48	6.00	11.85	22.6	22
ZZ40542		0.18	0.001	0.23	0.43	20	<0.2	<10	1650	0.54	0.21	16.45	12.35	8.59	36.5	15
ZZ40543		0.13	0.005	0.25	0.51	21.8	<0.2	<10	940	0.40	0.18	7.17	8.06	8.45	36.7	19
ZZ40544		0.11	0.005	3.44	0.67	19.6	<0.2	<10	1420	0.54	0.20	1.93	8.20	10.30	11.0	37
ZZ40545		0.24	0.003	0.11	0.68	14.5	<0.2	<10	370	0.82	0.33	0.29	0.18	8.04	16.3	11

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40506		1.24	21.1	3.74	5.54	<0.05	<0.02	0.09	0.028	0.08	5.6	11.9	0.24	657	2.16	0.02
ZZ40507		1.53	22.6	3.57	4.28	<0.05	0.05	0.20	0.033	0.07	9.9	22.0	0.40	622	2.26	0.02
ZZ40508		1.13	28.6	4.56	4.15	<0.05	0.06	0.18	0.045	0.07	11.2	15.1	0.29	769	3.43	0.02
ZZ40509		1.39	21.2	3.29	4.77	<0.05	<0.02	0.05	0.032	0.07	11.1	30.8	0.42	368	1.76	0.02
ZZ40510		3.06	20.9	3.56	3.96	<0.05	0.08	0.35	0.039	0.07	13.0	17.4	0.38	426	1.31	0.02
ZZ40511		1.22	18.0	3.47	3.91	<0.05	0.12	0.42	0.042	0.08	8.9	14.1	0.35	367	1.20	0.02
ZZ40512		2.11	23.0	3.54	4.71	<0.05	0.07	0.10	0.032	0.07	12.4	28.4	0.52	492	2.60	0.02
ZZ40513		1.12	17.3	4.12	4.34	0.05	0.12	0.38	0.033	0.07	14.1	25.9	0.47	2220	1.57	0.02
ZZ40514		3.33	25.0	3.08	3.93	0.06	0.05	0.19	0.033	0.07	16.3	24.2	0.46	375	2.29	0.02
ZZ40515		1.24	25.5	3.19	3.44	<0.05	0.08	0.25	0.030	0.09	16.0	25.1	0.38	300	1.49	0.02
ZZ40516		1.52	23.2	2.97	3.52	<0.05	0.07	0.13	0.029	0.07	10.1	23.0	0.35	290	1.55	0.02
ZZ40517		1.85	23.1	2.95	4.23	<0.05	<0.02	0.10	0.031	0.07	9.5	11.4	0.23	341	1.99	0.02
ZZ40518		2.74	40.6	3.89	4.38	<0.05	0.02	0.15	0.041	0.08	9.1	15.6	0.26	380	2.25	0.02
ZZ40519		2.65	20.9	2.92	4.55	<0.05	0.02	0.03	0.029	0.07	12.5	22.5	0.39	324	1.29	0.02
ZZ40520		2.23	21.8	6.45	2.28	<0.05	<0.02	0.46	0.056	0.06	8.6	4.6	0.10	1840	0.87	0.02
ZZ40521		1.69	16.0	2.60	4.30	<0.05	0.02	0.28	0.031	0.06	6.9	9.8	0.20	351	5.92	0.02
ZZ40522		2.63	22.4	3.19	3.79	<0.05	0.08	0.94	0.035	0.07	9.7	17.2	0.33	320	2.74	0.02
ZZ40523		2.41	16.9	3.07	2.62	0.05	0.09	1.02	0.032	0.06	10.6	10.0	0.56	772	1.74	0.03
ZZ40524		1.46	20.9	3.24	4.36	<0.05	0.11	0.28	0.032	0.07	9.0	21.5	0.46	289	1.92	0.02
ZZ40525		1.69	21.9	3.20	5.63	<0.05	<0.02	0.06	0.030	0.06	10.7	18.2	0.42	462	1.85	0.02
ZZ40526		1.29	17.3	3.20	5.59	<0.05	<0.02	0.04	0.032	0.05	11.9	17.1	0.34	461	2.49	0.02
ZZ40527		1.69	26.4	4.29	4.54	<0.05	0.06	0.06	0.034	0.05	6.0	27.6	0.45	1120	1.59	0.02
ZZ40528		1.49	53.2	3.74	3.59	0.13	0.11	0.15	0.038	0.09	18.4	18.8	0.45	273	5.24	0.01
ZZ40529		2.66	33.5	5.92	7.37	0.14	0.03	0.06	0.045	0.08	19.8	23.2	0.50	470	3.94	<0.01
ZZ40530		1.56	48.1	5.31	4.54	0.14	0.07	0.04	0.040	0.08	17.0	21.0	0.72	352	13.05	<0.01
ZZ40531		1.58	33.1	3.25	3.73	0.09	0.03	0.26	0.030	0.06	9.7	9.8	0.21	339	7.20	<0.01
ZZ40532		1.02	35.8	5.07	4.16	0.14	0.04	0.06	0.042	0.09	23.0	12.1	0.29	1400	4.27	<0.01
ZZ40533		1.72	22.9	4.29	6.09	0.12	0.04	0.11	0.033	0.07	17.8	17.8	0.43	366	4.83	0.01
ZZ40534		2.05	20.2	3.41	6.28	0.10	0.02	0.04	0.032	0.06	19.0	18.0	0.44	629	3.14	<0.01
ZZ40535		2.55	18.0	4.14	8.41	0.12	0.02	0.05	0.037	0.07	14.7	15.9	0.55	1960	1.82	0.01
ZZ40536		2.43	161.5	4.34	2.34	0.20	0.15	0.42	0.072	0.07	12.3	4.2	0.07	207	11.10	<0.01
ZZ40537		1.35	89.8	3.75	1.74	0.17	0.16	0.29	0.043	0.09	10.1	4.3	0.42	271	9.45	0.01
ZZ40538		0.68	32.0	3.08	1.92	0.14	0.08	0.10	0.035	0.06	13.8	4.0	0.32	783	5.10	0.01
ZZ40539		0.99	29.9	2.44	2.71	0.10	0.08	0.10	0.030	0.08	12.0	7.5	0.24	396	3.20	0.01
ZZ40540		0.91	36.9	2.86	2.22	0.11	0.06	0.08	0.033	0.07	9.5	6.8	0.22	391	5.87	0.01
ZZ40541		0.94	38.4	3.13	2.42	0.11	0.09	0.11	0.036	0.10	8.0	6.6	0.18	532	5.38	0.01
ZZ40542		1.10	41.5	3.11	1.58	0.19	0.05	0.18	0.030	0.07	6.6	4.1	0.11	491	8.46	0.02
ZZ40543		0.95	33.2	3.52	1.76	0.14	0.07	0.21	0.028	0.07	8.1	4.0	0.09	581	19.30	<0.01
ZZ40544		1.07	64.6	2.26	2.01	0.14	0.09	0.47	0.034	0.09	9.3	3.6	0.09	189	14.00	0.01
ZZ40545		1.80	35.3	3.47	2.02	0.08	0.06	0.03	0.051	0.08	3.1	6.6	0.18	228	1.75	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40506		0.29	18.5	1090	19.9	16.0	<0.001	0.05	0.65	1.0	0.5	0.6	18.9	<0.01	0.04	0.3
ZZ40507		0.45	26.0	1110	24.6	12.5	0.001	0.05	0.95	3.0	0.8	0.5	33.3	<0.01	0.04	1.3
ZZ40508		0.38	29.2	1450	32.8	9.7	<0.001	0.05	1.29	3.1	1.3	0.4	10.8	<0.01	0.04	1.8
ZZ40509		0.54	27.9	680	19.2	9.3	<0.001	0.03	0.85	1.6	0.6	0.5	23.1	<0.01	0.04	0.5
ZZ40510		0.57	29.1	700	41.4	12.4	<0.001	0.03	0.87	4.4	0.8	0.5	18.0	<0.01	0.05	2.8
ZZ40511		0.29	19.3	1080	33.2	11.1	<0.001	0.08	0.67	4.0	0.4	0.5	39.0	<0.01	0.02	1.7
ZZ40512		0.55	29.8	940	22.9	10.9	0.001	0.04	1.05	3.3	0.9	0.5	31.4	<0.01	0.04	1.8
ZZ40513		0.32	26.6	1190	18.6	10.2	0.001	0.06	0.53	4.2	0.8	0.5	39.4	<0.01	0.02	2.1
ZZ40514		0.58	31.4	1010	15.0	10.5	<0.001	0.03	0.99	4.1	1.2	0.4	32.8	<0.01	0.04	2.6
ZZ40515		0.51	25.4	800	20.9	10.2	0.001	0.02	0.68	5.0	0.5	0.4	31.8	<0.01	0.03	4.5
ZZ40516		0.42	23.3	640	30.4	12.9	0.001	0.03	0.87	3.6	0.6	0.4	34.4	<0.01	0.03	1.9
ZZ40517		0.31	20.5	710	16.9	13.3	0.001	0.03	0.88	1.1	0.5	0.6	12.8	<0.01	0.05	0.3
ZZ40518		0.50	30.7	710	31.6	15.6	0.001	0.03	1.35	2.6	0.7	0.6	10.8	<0.01	0.04	1.1
ZZ40519		0.54	25.1	630	13.9	15.3	<0.001	0.03	0.64	2.0	0.7	0.5	11.2	<0.01	0.04	1.0
ZZ40520		0.21	25.0	550	29.6	9.1	<0.001	0.03	0.29	3.3	0.6	0.4	9.3	<0.01	0.01	3.0
ZZ40521		0.44	18.8	1200	17.6	12.6	<0.001	0.06	1.18	1.6	1.1	0.6	20.8	<0.01	0.06	0.5
ZZ40522		0.56	26.8	730	32.0	14.5	0.001	0.08	0.95	4.1	0.9	0.5	21.7	<0.01	0.05	2.6
ZZ40523		0.39	24.3	1120	21.9	10.6	0.001	0.06	1.30	4.3	1.3	0.4	26.2	<0.01	0.04	2.1
ZZ40524		0.57	29.5	510	18.1	10.2	<0.001	0.04	0.92	4.4	1.1	0.5	27.7	<0.01	0.01	2.9
ZZ40525		0.51	24.2	900	18.4	13.3	<0.001	0.03	0.74	1.7	0.8	0.6	11.1	<0.01	0.05	0.6
ZZ40526		0.44	26.4	990	14.9	10.0	<0.001	0.05	0.65	1.1	0.9	0.6	10.2	<0.01	0.04	0.3
ZZ40527		0.35	27.3	830	31.3	9.1	0.001	0.05	0.55	3.3	0.9	0.4	17.1	<0.01	0.05	1.8
ZZ40528		0.26	44.0	1420	17.3	10.1	0.005	0.10	2.55	3.9	3.4	0.4	54.4	<0.01	0.05	1.8
ZZ40529		0.50	29.5	2020	15.1	11.8	0.001	0.10	1.01	1.6	1.0	0.6	11.7	0.01	0.05	0.6
ZZ40530		0.23	45.0	1470	30.5	10.0	0.001	0.05	1.72	2.5	1.3	0.4	10.7	<0.01	0.04	1.4
ZZ40531		0.23	26.2	1150	16.2	11.6	0.002	0.04	2.01	1.1	1.5	0.4	20.8	<0.01	0.06	0.3
ZZ40532		0.28	41.7	1960	16.0	11.9	0.001	0.08	0.71	2.0	1.0	0.5	17.9	0.01	0.03	0.5
ZZ40533		0.66	21.1	1200	15.7	12.2	0.001	0.06	0.93	1.7	1.4	0.6	25.2	0.01	0.04	0.8
ZZ40534		0.31	25.5	1160	12.3	11.1	0.001	0.05	0.97	1.0	1.0	0.6	12.6	0.01	0.05	0.3
ZZ40535		0.28	24.9	2150	16.3	11.6	<0.001	0.13	0.75	1.2	0.7	0.7	17.8	<0.01	0.05	0.2
ZZ40536		0.24	210	5110	12.4	8.9	0.006	0.18	4.64	5.8	13.2	0.5	271	0.02	0.25	1.1
ZZ40537		0.21	246	3010	13.3	6.7	0.004	0.14	2.85	4.4	8.8	0.4	120.0	0.01	0.22	0.9
ZZ40538		0.20	151.0	2400	13.1	5.2	0.001	0.16	2.43	1.9	3.4	0.4	69.2	0.01	0.18	0.4
ZZ40539		0.38	81.7	3330	10.8	10.3	0.001	0.13	1.55	1.5	2.7	0.4	69.2	0.01	0.13	0.6
ZZ40540		0.28	102.0	2240	13.6	6.9	0.001	0.10	1.84	2.7	2.6	0.3	71.9	0.01	0.34	0.8
ZZ40541		0.30	161.0	2070	14.0	7.5	0.001	0.11	2.39	3.1	4.3	0.4	72.5	0.01	0.24	0.7
ZZ40542		0.24	237	1980	15.4	6.1	0.002	0.06	3.17	3.8	24.7	0.3	113.5	0.01	0.28	1.7
ZZ40543		0.20	239	2320	13.5	5.7	0.001	0.06	3.27	2.6	12.2	0.4	66.0	0.01	0.20	1.1
ZZ40544		0.18	113.5	3380	12.8	8.3	0.008	0.17	3.75	2.7	11.4	0.5	111.5	0.01	0.18	0.8
ZZ40545		<0.05	39.0	600	25.1	8.2	0.001	0.06	0.54	7.0	0.6	0.3	13.7	<0.01	0.04	3.3

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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40506		0.009	0.10	0.59	44	0.09	3.01	95	<0.5
ZZ40507		0.011	0.17	1.00	50	0.12	6.72	171	1.2
ZZ40508		0.006	0.20	1.30	49	0.08	6.36	151	1.4
ZZ40509		0.017	0.14	0.75	47	0.17	5.60	184	<0.5
ZZ40510		0.011	0.19	0.94	44	0.10	9.28	322	1.7
ZZ40511		0.005	0.11	0.80	42	0.05	7.17	217	2.2
ZZ40512		0.012	0.21	0.74	58	0.13	6.45	192	1.5
ZZ40513		0.006	0.12	0.77	49	0.06	8.12	163	2.4
ZZ40514		0.023	0.14	0.92	46	0.19	11.00	167	1.4
ZZ40515		0.015	0.09	0.82	36	0.08	9.09	116	2.3
ZZ40516		0.009	0.11	0.70	35	0.14	5.88	114	1.4
ZZ40517		0.010	0.13	0.64	42	0.12	3.87	98	<0.5
ZZ40518		0.008	0.23	0.76	42	0.10	4.46	128	0.5
ZZ40519		0.015	0.13	0.72	39	0.18	5.61	104	<0.5
ZZ40520		0.009	0.09	0.78	20	0.07	6.29	82	<0.5
ZZ40521		0.010	0.50	1.35	81	0.16	4.93	110	0.5
ZZ40522		0.012	1.71	1.64	57	0.11	9.72	613	1.9
ZZ40523		0.013	0.47	1.87	53	0.12	12.50	576	2.3
ZZ40524		0.012	0.22	6.00	43	0.19	7.38	274	2.5
ZZ40525		0.018	0.15	0.90	48	0.22	4.80	98	<0.5
ZZ40526		0.014	0.21	1.20	64	0.21	8.42	115	<0.5
ZZ40527		0.009	0.08	3.33	35	0.08	5.85	108	1.2
ZZ40528		0.006	0.24	1.41	42	0.07	13.60	200	2.9
ZZ40529		0.010	0.20	0.78	60	0.11	5.59	114	0.6
ZZ40530		0.006	0.23	1.16	37	<0.05	7.37	163	1.5
ZZ40531		0.007	0.22	1.61	48	0.14	9.17	131	<0.5
ZZ40532		0.006	0.18	0.66	42	0.07	8.83	118	<0.5
ZZ40533		0.017	0.26	0.93	49	0.22	4.58	71	0.9
ZZ40534		0.012	0.19	0.90	55	0.16	6.95	90	<0.5
ZZ40535		0.010	0.08	0.59	90	0.09	6.00	71	<0.5
ZZ40536		0.006	0.46	22.5	297	0.20	67.3	1560	3.7
ZZ40537		0.005	0.46	5.30	92	0.17	61.2	1300	3.3
ZZ40538		0.005	0.32	2.95	82	0.14	39.2	853	1.3
ZZ40539		0.009	0.37	3.68	70	0.17	25.3	371	1.7
ZZ40540		0.009	0.35	2.04	53	0.26	22.2	428	1.1
ZZ40541		0.007	0.59	2.79	71	0.15	27.7	816	2.1
ZZ40542		<0.005	0.95	4.91	79	0.11	27.6	1290	1.7
ZZ40543		<0.005	0.83	5.53	79	0.10	25.9	1240	2.1
ZZ40544		0.005	2.23	7.07	110	0.24	34.4	584	2.1
ZZ40545		<0.005	0.10	0.64	16	<0.05	8.57	120	2.1



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40546		0.13	0.010	0.16	0.57	8.9	<0.2	<10	490	0.72	0.30	0.97	0.89	7.27	7.0	9
ZZ40547		0.14	0.002	0.34	1.18	16.1	<0.2	<10	620	0.47	0.23	1.43	1.55	19.65	10.6	27
ZZ40548		0.11	0.007	0.61	1.24	29.5	<0.2	<10	2290	0.67	0.23	3.99	2.09	19.25	16.1	27
ZZ40549		0.14	0.004	0.60	1.36	22.0	<0.2	<10	780	0.64	0.23	2.27	1.76	21.2	14.4	27
ZZ40550		0.13	0.002	1.54	1.36	28.8	<0.2	<10	1190	0.63	0.30	1.66	1.90	23.5	19.0	29
ZZ40551		0.14	0.001	0.06	1.45	16.4	<0.2	<10	680	0.42	0.31	0.38	0.32	25.1	9.0	22
ZZ40552		0.12	0.004	2.39	0.87	18.4	<0.2	<10	2280	0.57	0.20	1.93	1.34	14.45	6.6	42
ZZ40553		0.07	0.004	0.36	1.38	30.5	<0.2	<10	5520	0.49	0.23	2.19	1.65	17.00	10.3	24
ZZ40554		0.19	0.004	0.35	0.92	14.4	<0.2	<10	1980	0.68	0.25	1.51	1.04	10.95	12.3	19
ZZ40555		0.10	0.003	0.90	0.89	18.4	<0.2	<10	2220	0.51	0.21	2.14	1.30	11.70	7.7	22
ZZ40556		0.10	0.002	0.66	1.07	9.1	<0.2	<10	2440	0.55	0.18	2.35	1.02	14.60	7.6	24
ZZ40557		0.12	0.004	0.52	0.52	20.8	<0.2	<10	1430	0.46	0.20	1.17	0.88	8.16	4.7	14
ZZ40558		0.11	0.004	0.66	0.68	19.7	<0.2	<10	1840	0.52	0.21	1.52	1.14	9.26	7.9	17
ZZ40559		0.09	0.007	0.33	1.00	18.0	<0.2	<10	1260	0.74	0.27	1.38	1.51	10.50	12.1	20
ZZ40560		0.15	0.003	0.31	0.99	15.1	<0.2	<10	860	0.77	0.28	1.34	0.86	9.90	9.2	22
ZZ40561		0.14	0.001	0.29	1.16	13.3	<0.2	<10	620	0.82	0.30	1.23	0.99	10.20	9.4	34
ZZ40562		0.14	0.003	0.31	1.21	13.2	<0.2	<10	740	0.87	0.29	1.31	1.30	10.55	10.3	32
ZZ40563		0.19	0.001	0.23	1.27	19.7	<0.2	<10	290	0.90	0.31	0.64	1.30	12.75	16.3	24
ZZ40564		0.22	0.003	0.29	0.97	13.6	<0.2	<10	300	0.77	0.23	0.43	2.98	19.05	9.5	17
ZZ40565		0.16	0.004	0.23	1.45	17.0	<0.2	<10	320	1.03	0.22	0.52	4.28	18.20	13.5	24
ZZ40566		0.21	0.004	0.27	1.32	15.2	<0.2	<10	320	0.85	0.25	0.61	3.16	19.10	11.1	24
ZZ40567		0.20	<0.001	0.13	1.57	15.7	<0.2	<10	180	1.07	0.26	0.76	2.68	9.45	11.1	24
ZZ40568		0.17	0.002	0.21	1.37	20.2	<0.2	<10	250	1.04	0.24	1.32	5.91	10.20	11.8	21
ZZ40569		0.21	0.009	0.17	1.54	24.2	<0.2	<10	180	1.23	0.27	0.72	2.81	12.30	17.5	26
ZZ40570		0.19	0.004	0.22	1.34	24.3	<0.2	<10	220	1.05	0.23	0.99	4.99	15.60	16.8	22
ZZ40571		0.20	0.007	0.24	1.27	34.2	<0.2	<10	210	0.97	0.26	0.99	2.03	15.70	11.0	24
ZZ40572		0.17	<0.001	0.13	1.38	16.5	<0.2	<10	200	1.11	0.25	0.57	0.78	9.01	15.2	24
ZZ40573		0.18	0.013	0.26	1.37	20.3	<0.2	<10	230	0.96	0.22	0.95	1.42	19.95	14.0	25
ZZ40574		0.16	0.003	0.15	1.51	19.3	<0.2	<10	270	0.90	0.21	0.86	0.38	15.55	10.5	25
ZZ40575		0.19	0.001	0.02	1.57	40.6	<0.2	<10	120	0.64	0.28	0.10	0.40	25.8	15.6	25
ZZ40576		0.19	0.004	0.21	1.54	19.4	<0.2	<10	270	0.86	0.28	0.71	0.53	24.1	12.7	27
ZZ40577		0.11	0.002	0.30	1.21	22.9	<0.2	<10	300	0.76	0.22	0.96	1.15	18.80	13.1	21
ZZ40578		0.20	0.004	0.27	1.41	46.6	<0.2	<10	320	0.93	0.23	0.93	1.22	16.25	12.3	24
ZZ40579		0.21	0.003	0.38	1.41	31.4	<0.2	<10	520	1.11	0.23	0.82	2.82	16.50	9.0	24
ZZ40580		0.13	<0.001	0.05	0.98	26.2	<0.2	<10	130	0.37	0.20	0.06	0.34	25.3	6.3	19
ZZ40581		0.15	0.006	1.38	2.57	64.7	<0.2	<10	500	2.41	0.26	0.42	2.03	43.6	24.2	40
ZZ40582		0.24	0.005	0.83	1.19	44.2	<0.2	<10	600	1.01	0.26	0.75	0.98	18.35	11.6	27
ZZ40583		0.19	0.005	0.40	0.96	18.7	<0.2	<10	290	1.00	0.22	1.32	2.07	12.50	7.2	17
ZZ40584		0.16	0.001	0.05	1.06	75.8	<0.2	<10	150	0.30	0.28	0.08	0.23	19.65	8.1	22
ZZ40585		0.19	0.002	0.70	2.01	47.8	<0.2	<10	270	1.08	0.31	0.07	0.61	15.40	15.0	46





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 Account: RCM

Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40546		1.67	23.6	2.40	1.37	0.07	0.09	0.05	0.042	0.07	3.9	4.2	0.06	98	1.61	<0.01
ZZ40547		0.79	19.8	2.44	4.33	0.09	0.05	0.06	0.029	0.05	12.6	10.1	0.25	784	4.26	<0.01
ZZ40548		0.68	35.5	3.21	3.78	0.12	0.08	0.12	0.034	0.07	12.9	14.9	0.48	684	17.65	0.01
ZZ40549		0.58	27.4	3.01	3.96	0.11	0.07	0.10	0.034	0.07	15.6	13.5	0.40	589	13.40	0.01
ZZ40550		0.77	32.4	3.18	5.00	0.12	0.06	0.15	0.036	0.05	14.6	11.7	0.32	868	21.1	0.01
ZZ40551		1.10	16.6	3.46	6.08	0.08	0.02	0.07	0.033	0.04	10.9	20.1	0.30	395	4.14	<0.01
ZZ40552		0.55	43.4	2.31	2.80	0.09	0.07	0.18	0.031	0.05	10.5	9.8	0.22	273	6.93	<0.01
ZZ40553		0.57	16.7	2.96	4.49	0.10	0.06	0.20	0.032	0.03	14.0	10.7	0.20	328	17.40	<0.01
ZZ40554		1.04	33.2	3.16	2.60	0.09	0.06	0.08	0.039	0.08	6.2	8.4	0.24	374	8.89	<0.01
ZZ40555		0.52	29.0	2.16	2.80	0.08	0.08	0.16	0.032	0.06	7.9	9.0	0.26	368	9.39	<0.01
ZZ40556		0.48	26.5	1.89	3.14	0.08	0.08	0.14	0.028	0.05	9.2	11.2	0.32	257	2.33	<0.01
ZZ40557		0.90	32.3	2.20	2.00	0.06	0.06	0.15	0.034	0.08	5.0	5.8	0.15	151	15.20	<0.01
ZZ40558		0.76	27.3	2.28	2.28	0.07	0.06	0.14	0.032	0.06	5.4	6.4	0.17	430	12.10	<0.01
ZZ40559		0.63	29.7	2.98	2.99	0.07	0.06	0.09	0.035	0.06	5.5	10.8	0.25	585	5.03	0.01
ZZ40560		0.68	29.5	2.75	3.09	0.07	0.06	0.10	0.034	0.06	5.1	11.1	0.23	310	4.39	<0.01
ZZ40561		0.87	25.4	2.91	3.49	0.07	0.06	0.10	0.036	0.06	5.2	12.0	0.26	369	4.16	<0.01
ZZ40562		0.94	29.0	2.93	3.47	0.08	0.06	0.10	0.035	0.07	5.3	12.7	0.29	456	3.77	0.01
ZZ40563		0.99	40.1	4.43	3.92	0.11	0.07	0.09	0.041	0.08	6.0	20.5	0.41	815	8.21	<0.01
ZZ40564		1.07	44.8	2.91	2.95	0.05	0.05	0.09	0.037	0.10	8.1	15.9	0.36	170	6.01	<0.01
ZZ40565		0.95	44.6	3.79	4.37	0.05	0.06	0.12	0.039	0.09	8.7	26.3	0.50	295	7.09	<0.01
ZZ40566		0.96	38.6	4.01	3.90	0.06	0.05	0.14	0.035	0.08	10.8	20.4	0.44	793	9.11	<0.01
ZZ40567		1.04	27.4	3.76	4.81	<0.05	0.06	0.09	0.045	0.09	4.3	35.5	0.55	338	8.45	<0.01
ZZ40568		0.94	37.1	3.59	4.08	<0.05	0.05	0.10	0.036	0.09	4.8	28.2	0.46	312	13.65	<0.01
ZZ40569		1.33	35.7	4.18	4.76	<0.05	0.06	0.13	0.043	0.10	5.5	33.9	0.55	315	11.15	0.01
ZZ40570		0.84	36.4	3.63	4.19	0.05	0.05	0.13	0.044	0.09	6.7	26.9	0.45	503	16.30	<0.01
ZZ40571		1.16	35.1	3.35	3.63	0.05	0.05	0.13	0.043	0.10	5.8	24.2	0.44	469	10.30	<0.01
ZZ40572		0.92	35.9	4.20	4.06	0.05	0.04	0.13	0.046	0.10	3.3	24.1	0.42	417	10.65	0.01
ZZ40573		0.90	37.0	3.09	4.14	0.05	0.05	0.17	0.040	0.08	8.9	24.2	0.44	612	9.83	<0.01
ZZ40574		0.69	33.9	3.47	4.45	<0.05	0.06	0.10	0.039	0.09	7.0	28.6	0.51	585	3.18	<0.01
ZZ40575		1.16	37.6	4.38	5.48	0.05	0.05	0.09	0.038	0.07	11.0	24.8	0.42	531	2.02	<0.01
ZZ40576		1.02	36.8	3.36	4.97	0.05	0.07	0.15	0.036	0.08	11.5	29.5	0.55	312	6.59	<0.01
ZZ40577		1.05	38.6	3.21	3.94	0.05	0.06	0.17	0.034	0.07	8.6	20.2	0.44	329	7.32	<0.01
ZZ40578		0.92	33.5	4.54	4.37	0.05	0.05	0.16	0.036	0.07	7.3	22.3	0.53	646	20.4	<0.01
ZZ40579		1.02	45.4	2.82	4.27	<0.05	0.08	0.21	0.039	0.07	7.8	19.9	0.41	228	12.50	<0.01
ZZ40580		1.01	16.8	2.20	5.38	<0.05	0.02	0.04	0.027	0.04	11.6	9.8	0.13	311	1.78	<0.01
ZZ40581		1.68	63.4	5.72	3.90	0.12	0.11	0.72	0.058	0.07	26.8	24.7	0.31	1780	3.29	<0.01
ZZ40582		1.57	56.2	3.30	3.68	0.06	0.07	0.47	0.041	0.08	11.2	18.2	0.40	421	3.09	<0.01
ZZ40583		0.75	40.0	2.41	3.12	0.05	0.06	0.14	0.036	0.06	5.8	16.9	0.32	174	3.55	<0.01
ZZ40584		1.28	23.6	3.64	6.72	<0.05	0.02	1.23	0.031	0.05	9.4	12.0	0.21	283	3.34	<0.01
ZZ40585		2.55	40.8	5.29	5.26	<0.05	0.07	0.18	0.057	0.07	6.1	32.1	0.26	655	2.61	<0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ40546		0.07	34.1	910	20.5	9.3	0.001	0.14	0.66	4.2	0.9	0.3	33.8	<0.01	0.06	1.6
ZZ40547		0.55	40.0	1420	13.1	7.7	0.001	0.07	1.52	2.7	1.6	0.5	34.9	0.01	0.08	0.7
ZZ40548		0.46	77.5	1540	15.4	6.9	0.002	0.13	1.63	3.4	3.4	0.4	56.0	0.01	0.12	0.9
ZZ40549		0.43	62.4	1380	14.9	6.5	0.002	0.11	1.40	2.6	2.7	0.5	29.7	0.01	0.12	0.7
ZZ40550		0.55	67.3	820	18.4	8.8	0.003	0.08	1.61	3.5	4.2	0.6	19.9	0.01	0.21	0.8
ZZ40551		0.89	20.3	340	19.4	8.5	<0.001	0.03	0.84	2.6	0.6	0.6	14.0	<0.01	0.07	1.9
ZZ40552		0.37	43.8	2310	11.0	5.9	0.007	0.17	1.67	3.1	4.5	0.5	81.8	0.01	0.12	0.9
ZZ40553		0.44	32.1	1470	16.2	5.1	0.001	0.10	1.15	2.4	2.4	0.5	34.1	0.01	0.12	0.4
ZZ40554		0.27	44.2	1030	15.0	7.8	0.005	0.11	0.91	4.9	1.6	0.4	35.8	<0.01	0.07	1.8
ZZ40555		0.33	37.4	1460	11.9	5.8	0.010	0.17	1.94	2.6	4.1	0.4	44.4	<0.01	0.09	0.7
ZZ40556		0.44	32.9	1190	10.9	5.5	0.009	0.16	1.34	3.2	4.4	0.4	43.7	<0.01	0.06	1.1
ZZ40557		0.14	32.8	770	12.4	6.8	0.007	0.19	2.78	2.4	2.6	0.4	38.8	<0.01	0.09	0.7
ZZ40558		0.20	32.2	970	12.7	6.5	0.009	0.15	2.09	2.4	3.2	0.4	37.6	<0.01	0.08	0.6
ZZ40559		0.29	34.8	850	16.4	5.9	0.004	0.08	1.08	3.9	2.2	0.4	37.2	<0.01	0.06	1.8
ZZ40560		0.28	27.9	750	15.7	6.7	0.004	0.09	1.05	3.2	2.3	0.4	33.3	<0.01	0.06	1.2
ZZ40561		0.35	27.3	730	16.2	7.3	0.003	0.07	0.89	3.3	2.1	0.4	29.7	<0.01	0.07	1.2
ZZ40562		0.37	30.4	850	16.6	8.1	0.006	0.11	0.95	3.8	2.7	0.4	32.9	<0.01	0.05	1.5
ZZ40563		0.24	48.7	710	19.4	8.6	0.003	0.05	1.08	5.3	3.6	0.4	23.7	<0.01	0.06	2.5
ZZ40564		0.12	60.8	910	13.0	8.4	<0.001	0.02	1.84	4.5	1.4	0.3	25.4	<0.01	0.03	4.1
ZZ40565		0.23	67.3	800	15.7	8.6	0.001	0.03	1.44	6.0	3.4	0.4	22.2	<0.01	0.05	3.5
ZZ40566		0.45	93.2	910	12.5	9.8	0.002	0.05	2.09	5.3	2.1	0.4	25.0	<0.01	0.04	2.5
ZZ40567		0.16	63.6	580	17.6	10.4	0.002	0.06	1.03	5.8	2.3	0.5	20.0	<0.01	0.04	2.2
ZZ40568		0.22	93.6	740	14.4	9.7	0.006	0.09	1.74	4.7	3.1	0.4	22.6	<0.01	0.03	1.5
ZZ40569		0.20	84.1	760	18.6	10.7	0.001	0.05	1.06	6.4	1.6	0.5	22.7	<0.01	0.04	3.0
ZZ40570		0.25	95.2	780	15.6	10.3	0.002	0.07	1.41	5.5	2.8	0.4	24.5	<0.01	0.03	1.8
ZZ40571		0.19	56.5	920	18.7	8.6	0.003	0.05	1.13	4.7	1.9	0.4	23.3	<0.01	0.06	2.2
ZZ40572		0.10	51.5	730	20.7	9.5	0.004	0.04	0.68	6.3	4.1	0.5	19.2	<0.01	0.06	3.5
ZZ40573		0.39	50.4	810	14.1	9.5	<0.001	0.06	0.87	5.0	1.9	0.4	29.3	<0.01	0.04	1.6
ZZ40574		0.17	39.2	610	16.6	7.4	0.002	0.07	0.48	5.4	1.7	0.4	28.0	<0.01	0.04	2.6
ZZ40575		0.59	30.7	560	22.2	8.7	<0.001	0.02	0.67	4.2	0.6	0.5	16.2	<0.01	0.06	4.2
ZZ40576		0.47	41.4	710	18.9	9.3	<0.001	0.05	0.76	5.9	2.5	0.5	35.9	<0.01	0.05	3.6
ZZ40577		0.33	38.1	820	15.0	8.1	0.003	0.09	0.87	5.0	2.6	0.4	43.6	<0.01	0.06	2.7
ZZ40578		0.25	49.3	810	16.9	9.2	0.005	0.07	1.01	5.4	3.8	0.4	40.3	<0.01	0.08	2.2
ZZ40579		0.31	49.3	810	16.1	9.9	0.011	0.14	1.16	6.2	8.0	0.5	43.4	<0.01	0.06	2.4
ZZ40580		0.32	15.0	390	17.0	6.2	<0.001	0.02	0.52	2.0	0.3	0.6	9.4	<0.01	0.03	2.6
ZZ40581		0.29	61.1	1430	26.8	11.0	0.001	0.06	1.15	17.7	3.5	0.5	36.9	<0.01	0.09	4.9
ZZ40582		0.28	42.3	980	19.0	8.2	0.001	0.04	1.27	7.2	1.2	0.5	41.2	<0.01	0.07	2.5
ZZ40583		0.25	29.6	750	15.8	6.8	0.011	0.10	1.22	4.9	2.8	0.4	66.5	<0.01	0.06	2.4
ZZ40584		0.53	21.6	350	18.7	9.8	<0.001	0.02	1.16	2.6	0.5	0.6	11.9	<0.01	0.08	2.6
ZZ40585		0.48	42.8	500	32.3	19.4	<0.001	0.02	0.76	4.8	1.8	0.8	16.5	<0.01	0.07	3.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ40546		<0.005	0.18	1.59	21	<0.05	9.80	145	2.3
ZZ40547		0.014	0.23	1.93	88	0.26	19.25	170	0.8
ZZ40548		0.010	0.18	3.48	66	0.21	26.9	306	1.6
ZZ40549		0.010	0.16	2.68	69	0.32	28.3	244	1.3
ZZ40550		0.013	0.27	3.65	86	0.20	25.3	309	1.0
ZZ40551		0.019	0.17	0.57	67	0.21	3.79	80	<0.5
ZZ40552		0.008	0.17	5.45	82	0.16	20.8	172	1.9
ZZ40553		0.008	0.18	6.73	81	0.21	23.7	110	0.8
ZZ40554		<0.005	0.18	2.05	36	0.10	13.75	160	1.4
ZZ40555		0.007	0.37	4.50	114	0.14	16.60	193	2.2
ZZ40556		0.008	0.16	5.59	78	0.10	17.70	147	2.1
ZZ40557		<0.005	0.90	2.65	126	0.11	12.50	129	1.6
ZZ40558		<0.005	0.59	3.17	112	0.10	12.60	152	1.6
ZZ40559		<0.005	0.14	2.57	51	0.08	11.25	167	1.6
ZZ40560		<0.005	0.14	3.53	43	0.08	9.41	115	1.4
ZZ40561		<0.005	0.15	2.70	56	0.12	9.16	143	1.4
ZZ40562		<0.005	0.16	3.11	56	0.09	9.90	140	1.7
ZZ40563		<0.005	0.14	2.72	51	0.07	9.42	178	1.9
ZZ40564		<0.005	0.21	1.52	46	<0.05	10.70	289	2.1
ZZ40565		<0.005	0.16	1.99	54	0.07	11.50	301	1.9
ZZ40566		0.012	0.19	2.01	60	0.10	13.35	372	1.5
ZZ40567		<0.005	0.15	3.40	43	<0.05	8.65	327	1.7
ZZ40568		<0.005	0.17	6.27	49	0.07	9.39	472	1.5
ZZ40569		<0.005	0.14	1.78	44	<0.05	11.30	376	1.8
ZZ40570		<0.005	0.19	5.20	43	0.05	12.40	433	1.4
ZZ40571		<0.005	0.16	3.76	37	<0.05	11.85	249	1.3
ZZ40572		<0.005	0.13	2.16	34	<0.05	11.40	158	1.4
ZZ40573		0.007	0.21	3.67	39	0.09	12.85	171	1.3
ZZ40574		<0.005	0.12	2.01	36	<0.05	13.35	92	1.5
ZZ40575		0.009	0.15	0.60	52	0.15	5.61	93	1.9
ZZ40576		0.006	0.18	2.82	47	0.10	12.25	125	2.0
ZZ40577		<0.005	0.19	3.00	42	0.07	11.50	126	1.7
ZZ40578		<0.005	0.25	2.89	53	0.07	10.40	209	1.8
ZZ40579		<0.005	0.32	4.40	53	0.07	13.35	186	2.4
ZZ40580		0.006	0.19	0.71	52	0.08	3.01	58	0.5
ZZ40581		<0.005	0.33	2.76	68	0.09	48.1	147	3.2
ZZ40582		0.005	0.31	1.71	52	0.08	19.55	147	1.7
ZZ40583		<0.005	0.23	1.60	55	0.05	11.70	119	2.1
ZZ40584		0.008	0.34	0.45	96	0.12	2.70	106	0.8
ZZ40585		<0.005	0.35	0.95	75	0.07	6.10	181	2.2



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40586		0.22	0.004	0.28	1.73	18.5	<0.2	<10	410	0.96	0.26	0.91	0.39	23.0	13.8	28
ZZ40587		0.21	0.003	0.20	1.73	21.6	<0.2	<10	360	1.08	0.24	0.61	0.48	25.9	18.5	28
ZZ40588		0.20	0.004	0.21	1.70	18.7	<0.2	<10	260	0.81	0.21	0.44	0.28	26.6	10.9	29
ZZ40589		0.27	0.002	0.15	1.88	20.6	<0.2	<10	320	1.12	0.26	0.50	0.30	33.5	19.6	29
ZZ40590		0.24	0.003	0.12	1.87	20.4	<0.2	<10	270	1.03	0.26	0.50	0.29	29.2	18.1	29
ZZ40591		0.20	0.006	0.15	1.63	17.6	<0.2	<10	380	0.94	0.23	1.08	0.27	18.85	13.2	24
ZZ40592		0.25	0.003	0.28	1.69	33.4	<0.2	<10	420	0.89	0.21	0.80	0.59	25.1	11.2	28
ZZ40593		0.18	0.004	0.30	1.58	25.2	<0.2	<10	470	0.93	0.22	0.91	0.74	25.6	13.1	27
ZZ40594		0.16	0.004	0.26	1.59	21.8	<0.2	<10	440	0.71	0.24	1.05	0.87	26.9	11.9	27
ZZ40595		0.23	0.005	0.38	1.56	33.4	<0.2	<10	430	1.11	0.24	0.63	0.80	30.7	15.0	28
ZZ40596		0.17	0.005	2.51	1.38	34.9	<0.2	<10	2260	1.03	0.32	1.98	2.64	24.3	35.2	37
ZZ40597		0.11	0.004	6.14	1.20	38.1	<0.2	<10	750	1.10	0.31	0.85	1.74	14.20	5.7	69
ZZ40598		0.10	<0.001	0.63	1.16	50.7	<0.2	<10	2700	0.68	0.25	6.42	3.23	22.2	19.7	25
ZZ40599		0.16	0.004	1.06	1.19	26.2	<0.2	<10	1130	1.15	0.26	8.33	3.52	19.35	15.4	30
ZZ40600		0.16	0.003	0.47	0.88	11.8	<0.2	<10	2310	0.58	0.20	4.93	3.41	18.50	7.9	21
ZZ40601		0.15	0.003	0.66	1.08	23.1	<0.2	<10	1490	0.91	0.27	5.98	3.79	22.4	14.1	30
ZZ40602		0.15	0.002	0.55	1.28	16.1	<0.2	<10	1990	0.91	0.26	1.70	2.76	20.3	12.2	43
ZZ40603		0.20	0.002	0.55	1.32	12.5	<0.2	<10	1190	0.90	0.23	2.43	2.86	18.25	11.4	32
ZZ40604		0.21	0.002	0.22	1.30	60.8	<0.2	<10	790	1.36	0.35	0.60	1.05	15.10	14.4	25
ZZ40605		0.14	0.002	0.40	1.17	21.4	<0.2	<10	750	0.87	0.25	0.69	1.08	13.35	10.2	23
ZZ40606		0.12	0.002	0.43	1.03	14.4	<0.2	<10	820	0.83	0.22	1.86	1.80	10.90	8.4	20
ZZ40607		0.19	0.003	0.46	1.09	13.0	<0.2	<10	670	0.86	0.26	0.98	1.99	11.75	11.7	21
ZZ40608		0.18	0.003	0.53	0.97	13.4	<0.2	<10	610	0.81	0.24	0.96	1.84	10.45	8.2	19
ZZ40609		0.14	0.005	0.58	1.15	17.8	<0.2	<10	800	0.94	0.28	0.77	2.15	12.20	9.7	22
ZZ40610		0.16	0.010	0.40	1.37	157.0	<0.2	<10	930	1.35	0.23	0.77	4.96	9.26	11.2	21
ZZ40611		0.18	<0.001	0.10	0.48	21.0	<0.2	<10	170	1.23	0.35	0.25	1.02	8.34	20.8	15
ZZ40612		0.14	0.008	0.23	0.88	89.2	<0.2	<10	490	0.96	0.27	0.39	2.03	8.05	10.7	18
ZZ40613		0.11	0.001	0.26	1.18	43.8	<0.2	<10	400	1.04	0.27	0.56	2.16	9.68	15.6	21
ZZ40614		0.17	<0.001	0.17	1.29	22.4	<0.2	<10	310	0.73	0.27	0.60	0.65	13.85	11.7	22
ZZ40615		0.19	0.003	0.15	1.41	28.9	<0.2	<10	380	1.07	0.28	0.58	3.35	15.00	15.7	24
ZZ40616		0.17	0.004	0.24	1.02	22.3	<0.2	<10	190	0.79	0.20	0.33	1.14	20.6	10.6	20
ZZ40617		0.22	0.004	0.40	1.26	33.3	<0.2	<10	450	0.99	0.26	1.09	1.40	9.79	10.9	21
ZZ40618		0.19	0.004	0.31	1.31	32.9	<0.2	<10	370	0.86	0.25	0.91	0.79	17.30	9.0	23
ZZ40619		0.12	0.003	0.31	1.46	31.3	<0.2	<10	440	1.00	0.23	0.78	2.51	20.4	18.3	24
ZZ40620		0.20	0.003	0.22	1.28	23.6	<0.2	<10	240	0.73	0.25	0.52	0.80	20.6	11.6	24
ZZ40621		0.11	0.001	0.43	0.96	17.0	<0.2	<10	350	0.70	0.22	1.23	0.80	10.00	8.3	15
ZZ40622		0.11	0.005	0.31	1.23	26.6	<0.2	<10	400	0.86	0.23	1.50	1.01	19.10	12.5	21
ZZ40623		0.19	0.003	0.29	1.66	34.2	<0.2	<10	670	1.09	0.25	1.48	1.30	23.6	15.7	29
ZZ40624		0.17	0.003	0.30	1.25	27.3	<0.2	<10	410	0.89	0.27	0.61	0.34	19.35	14.6	24
ZZ40625		0.15	0.004	0.36	1.18	44.4	<0.2	<10	320	0.71	0.21	1.36	0.69	21.7	12.5	20



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40586		0.77	60.3	3.67	5.08	<0.05	0.07	0.20	0.036	0.08	11.7	28.4	0.71	554	1.22	0.01
ZZ40587		0.80	58.3	4.03	5.39	0.06	0.07	0.25	0.036	0.09	12.0	33.3	0.70	827	1.50	0.01
ZZ40588		0.91	48.5	3.77	5.14	0.06	0.07	0.13	0.032	0.08	13.3	30.5	0.82	339	1.13	<0.01
ZZ40589		1.00	63.4	4.33	5.82	0.07	0.08	0.16	0.035	0.09	15.8	38.4	0.84	679	1.02	<0.01
ZZ40590		1.13	58.8	4.38	5.60	0.06	0.09	0.15	0.037	0.10	12.6	36.7	0.81	699	1.05	0.01
ZZ40591		0.76	48.7	3.51	4.70	0.05	0.07	0.14	0.032	0.08	9.2	29.3	0.62	502	0.92	0.01
ZZ40592		0.75	41.2	3.69	5.02	0.05	0.06	0.17	0.039	0.07	13.0	25.8	0.76	248	1.33	0.01
ZZ40593		0.72	53.5	3.35	4.79	0.05	0.05	0.22	0.035	0.07	13.0	23.6	0.65	524	1.10	0.01
ZZ40594		0.82	39.3	3.24	5.37	<0.05	0.04	0.17	0.032	0.06	12.3	22.2	0.59	421	1.19	0.01
ZZ40595		0.95	42.7	3.66	4.55	0.06	0.07	0.27	0.040	0.07	15.4	31.3	0.59	831	1.31	0.01
ZZ40596		0.59	48.5	4.39	4.43	0.10	0.09	0.23	0.046	0.07	18.6	11.3	0.73	1370	33.9	<0.01
ZZ40597		1.77	54.5	4.16	4.19	0.08	0.02	0.12	0.048	0.18	11.5	6.0	0.09	127	20.1	0.01
ZZ40598		0.53	20.8	3.07	3.50	0.08	0.02	0.15	0.036	0.05	23.5	8.1	0.26	1190	86.3	<0.01
ZZ40599		0.84	33.6	3.38	3.66	0.08	0.07	0.25	0.042	0.09	16.5	10.3	0.34	866	29.9	0.01
ZZ40600		0.52	17.2	2.20	2.56	0.05	0.02	0.09	0.027	0.05	15.4	8.3	0.26	406	5.97	<0.01
ZZ40601		0.75	33.7	3.19	3.40	0.07	0.08	0.15	0.044	0.09	17.9	11.0	0.42	689	20.2	<0.01
ZZ40602		0.74	29.9	2.83	3.83	0.07	0.06	0.14	0.040	0.06	16.2	9.4	0.26	718	12.05	<0.01
ZZ40603		0.81	27.4	2.72	3.78	0.05	0.05	0.12	0.038	0.06	13.0	12.4	0.33	280	6.28	0.01
ZZ40604		1.61	45.9	3.91	4.17	0.05	0.04	0.13	0.040	0.09	7.2	16.4	0.36	601	4.73	<0.01
ZZ40605		1.04	31.6	2.55	3.74	<0.05	0.05	0.11	0.036	0.05	6.8	11.0	0.23	329	6.46	<0.01
ZZ40606		1.17	36.1	2.16	3.26	<0.05	0.05	0.12	0.029	0.05	6.0	9.8	0.21	362	4.78	0.01
ZZ40607		1.04	32.9	2.53	3.49	<0.05	0.05	0.11	0.036	0.06	5.7	11.5	0.26	950	6.58	<0.01
ZZ40608		0.91	31.9	2.28	3.21	<0.05	0.04	0.11	0.033	0.05	5.5	10.2	0.22	310	6.69	<0.01
ZZ40609		1.00	33.3	2.78	3.93	<0.05	0.05	0.14	0.040	0.07	6.3	13.0	0.28	488	11.25	<0.01
ZZ40610		1.14	64.0	4.52	3.02	<0.05	0.06	0.10	0.051	0.07	4.4	12.2	0.22	436	82.9	<0.01
ZZ40611		1.67	41.6	4.80	1.91	<0.05	0.02	0.05	0.057	0.08	3.0	6.5	0.10	376	11.40	<0.01
ZZ40612		1.17	35.0	4.39	2.81	<0.05	0.05	0.09	0.040	0.07	3.6	12.5	0.22	399	35.7	<0.01
ZZ40613		1.40	35.2	4.09	4.02	<0.05	0.05	0.07	0.040	0.08	4.2	19.8	0.36	407	21.0	0.01
ZZ40614		1.04	23.3	3.51	4.09	<0.05	0.04	0.07	0.037	0.08	6.1	22.2	0.41	498	16.00	<0.01
ZZ40615		1.36	37.8	4.29	4.28	<0.05	0.06	0.08	0.037	0.08	6.4	24.1	0.53	666	22.6	<0.01
ZZ40616		1.34	34.2	2.87	3.27	<0.05	0.03	0.08	0.033	0.06	10.0	18.9	0.37	276	5.80	<0.01
ZZ40617		1.07	39.3	3.97	3.74	<0.05	0.06	0.13	0.035	0.08	5.0	16.5	0.33	390	20.5	<0.01
ZZ40618		1.24	32.5	3.24	4.21	<0.05	0.06	0.12	0.034	0.07	9.6	18.5	0.38	339	8.44	<0.01
ZZ40619		1.02	42.3	3.97	4.52	0.05	0.05	0.40	0.036	0.07	9.1	19.9	0.44	770	13.05	0.01
ZZ40620		1.51	26.9	3.22	4.14	0.05	0.05	0.12	0.034	0.07	8.9	20.5	0.46	337	6.85	0.01
ZZ40621		0.83	25.8	2.39	2.87	<0.05	0.05	0.11	0.027	0.06	5.0	11.7	0.23	277	5.13	<0.01
ZZ40622		1.01	42.1	2.97	3.76	<0.05	0.06	0.25	0.036	0.08	9.0	19.9	0.52	923	1.10	0.01
ZZ40623		1.07	76.0	3.81	5.19	0.06	0.10	0.21	0.037	0.09	11.1	29.6	0.91	436	1.47	0.01
ZZ40624		1.62	53.9	4.07	3.91	<0.05	0.06	0.60	0.072	0.10	8.3	18.0	0.47	344	1.97	0.01
ZZ40625		1.30	49.8	2.90	3.72	<0.05	0.04	0.29	0.030	0.06	8.4	22.0	0.51	440	0.99	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ40586	0.32	37.5	710	16.5	7.2	0.001	0.04	0.64	7.5	0.9	0.4	40.0	<0.01	0.05	3.1	
ZZ40587	0.22	43.6	760	19.1	7.6	<0.001	0.03	0.66	7.4	1.2	0.4	32.1	<0.01	0.05	3.6	
ZZ40588	0.21	34.4	820	14.0	6.3	<0.001	0.02	0.55	6.6	0.5	0.4	29.3	<0.01	0.06	4.6	
ZZ40589	0.18	41.6	490	20.6	7.0	<0.001	0.02	0.62	7.8	0.4	0.4	30.2	<0.01	0.07	5.0	
ZZ40590	0.19	41.6	540	20.8	7.9	<0.001	0.03	0.55	7.6	0.8	0.4	29.8	<0.01	0.08	4.9	
ZZ40591	0.23	33.7	450	16.7	7.0	<0.001	0.05	0.54	6.0	0.8	0.4	44.4	<0.01	0.04	2.8	
ZZ40592	0.42	33.4	740	17.9	7.3	0.001	0.05	0.71	6.0	1.5	0.5	34.7	<0.01	0.06	2.8	
ZZ40593	0.57	34.3	790	16.6	7.2	<0.001	0.05	0.74	6.0	1.5	0.4	36.9	<0.01	0.06	2.6	
ZZ40594	0.90	28.7	720	17.0	8.6	0.001	0.05	0.66	4.4	0.9	0.5	39.7	<0.01	0.04	2.0	
ZZ40595	0.84	40.1	690	23.0	7.4	0.001	0.05	0.75	8.8	1.7	0.5	32.3	<0.01	0.04	4.1	
ZZ40596	0.28	190.5	1670	25.1	6.0	0.005	0.08	1.99	5.9	7.3	0.9	42.6	<0.01	0.45	1.6	
ZZ40597	0.13	87.8	6620	18.8	16.1	0.003	0.43	3.46	2.4	14.5	0.9	311	<0.01	0.24	0.8	
ZZ40598	0.40	48.0	3910	18.1	5.3	0.002	0.15	5.20	1.7	4.7	0.6	76.3	<0.01	0.24	0.3	
ZZ40599	0.33	173.5	2080	17.1	7.0	0.001	0.12	1.90	3.1	5.9	0.7	55.6	<0.01	0.17	0.8	
ZZ40600	0.40	38.4	1820	12.2	5.2	0.001	0.14	1.28	1.7	3.1	0.4	56.0	<0.01	0.09	0.4	
ZZ40601	0.32	103.5	2720	17.7	7.4	0.001	0.10	2.10	3.9	5.9	0.7	66.6	<0.01	0.24	1.1	
ZZ40602	0.46	75.7	2000	15.7	7.0	0.002	0.11	1.75	3.1	6.0	0.6	47.9	<0.01	0.14	0.8	
ZZ40603	0.56	66.9	1470	13.0	6.6	0.001	0.10	1.28	3.4	3.5	0.5	43.5	<0.01	0.05	0.9	
ZZ40604	0.37	42.2	670	21.8	7.1	<0.001	0.04	1.01	5.9	1.8	0.6	26.4	<0.01	0.06	2.7	
ZZ40605	0.36	37.9	830	15.0	7.8	0.004	0.05	1.89	3.7	2.8	0.5	56.5	<0.01	0.07	1.5	
ZZ40606	0.43	32.0	850	12.7	7.8	0.005	0.10	1.84	2.6	4.4	0.4	41.3	<0.01	0.08	0.7	
ZZ40607	0.30	36.7	750	15.7	7.1	0.005	0.06	1.52	3.5	2.2	0.5	33.6	<0.01	0.06	1.1	
ZZ40608	0.29	36.4	710	14.5	7.1	0.006	0.06	1.67	3.0	3.4	0.5	34.0	<0.01	0.07	1.0	
ZZ40609	0.25	40.5	810	16.6	8.4	0.006	0.05	2.13	4.4	3.1	0.6	49.9	<0.01	0.06	1.5	
ZZ40610	0.20	76.3	1350	13.4	7.9	0.007	0.07	2.99	5.7	5.2	0.5	82.8	<0.01	0.05	1.8	
ZZ40611	<0.05	78.5	630	21.7	10.6	0.001	0.02	0.82	9.5	1.1	0.5	28.7	<0.01	0.07	3.0	
ZZ40612	0.10	56.1	840	16.6	9.8	0.005	0.05	1.69	5.6	2.9	0.5	56.8	<0.01	0.06	2.1	
ZZ40613	0.16	54.9	880	19.3	10.0	0.004	0.06	1.24	5.2	2.8	0.5	41.9	<0.01	0.05	2.2	
ZZ40614	0.31	36.5	700	16.8	9.3	0.002	0.05	0.99	4.8	1.8	0.5	33.8	<0.01	0.03	2.3	
ZZ40615	0.21	80.3	790	17.7	10.5	0.001	0.06	1.14	5.7	1.7	0.5	38.1	<0.01	0.04	2.7	
ZZ40616	0.38	49.1	720	11.8	7.3	<0.001	0.03	1.33	4.9	1.7	0.4	30.5	<0.01	0.04	3.3	
ZZ40617	0.22	52.5	950	15.7	9.5	0.002	0.07	1.35	5.8	2.9	0.4	45.1	<0.01	0.03	1.6	
ZZ40618	0.44	35.6	820	13.9	11.2	0.001	0.06	1.01	5.3	2.3	0.5	35.1	<0.01	0.04	1.5	
ZZ40619	0.39	45.7	1000	15.4	11.2	0.003	0.06	1.08	5.7	3.6	0.4	36.7	<0.01	0.05	2.0	
ZZ40620	0.47	37.7	890	13.6	10.3	<0.001	0.03	0.89	5.4	1.4	0.4	30.1	<0.01	0.05	2.5	
ZZ40621	0.21	26.9	900	14.2	6.9	0.005	0.08	1.32	3.3	2.9	0.4	55.2	<0.01	0.03	1.1	
ZZ40622	0.29	31.1	720	17.5	9.2	0.007	0.13	0.54	5.4	4.3	0.4	51.4	<0.01	0.04	1.7	
ZZ40623	0.26	38.6	720	18.5	7.9	0.008	0.14	0.75	8.6	7.6	0.4	59.3	<0.01	0.07	2.7	
ZZ40624	0.18	39.7	480	18.0	9.5	<0.001	0.04	0.62	6.8	1.8	0.5	33.8	<0.01	0.06	2.6	
ZZ40625	0.26	27.3	740	17.3	6.6	0.002	0.08	0.69	4.4	1.9	0.3	57.2	<0.01	0.05	1.1	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40586		0.006	0.15	1.21	47	0.05	15.10	102	1.9
ZZ40587		<0.005	0.14	0.98	47	0.05	14.55	109	2.2
ZZ40588		0.006	0.13	0.74	47	0.05	11.35	106	2.9
ZZ40589		<0.005	0.13	0.74	46	<0.05	13.75	97	3.4
ZZ40590		0.005	0.16	0.62	46	0.05	12.80	107	3.2
ZZ40591		<0.005	0.14	0.87	40	0.08	12.60	92	2.1
ZZ40592		0.007	0.16	1.27	56	0.08	14.30	111	1.5
ZZ40593		0.010	0.16	1.69	50	0.15	15.85	105	1.8
ZZ40594		0.019	0.12	3.46	54	0.14	8.65	111	1.2
ZZ40595		0.011	0.17	1.19	46	0.09	18.30	118	2.0
ZZ40596		0.007	0.90	6.03	99	0.22	42.8	673	1.9
ZZ40597		0.005	0.57	8.87	134	0.32	23.2	460	0.5
ZZ40598		0.011	0.29	22.1	79	0.40	54.5	185	0.6
ZZ40599		0.009	0.26	3.26	82	0.17	42.9	754	1.7
ZZ40600		0.014	0.15	2.22	55	0.30	32.5	239	0.6
ZZ40601		0.011	0.22	4.69	83	0.19	47.9	515	1.9
ZZ40602		0.011	0.25	4.89	87	0.14	38.9	402	1.3
ZZ40603		0.011	0.23	2.99	65	0.15	28.6	361	1.3
ZZ40604		0.006	0.17	1.69	44	0.12	12.60	170	1.4
ZZ40605		0.005	0.35	2.48	77	0.11	10.80	176	1.4
ZZ40606		0.006	0.28	4.76	61	0.08	11.10	163	1.4
ZZ40607		0.005	0.33	3.79	57	0.12	10.50	168	1.3
ZZ40608		<0.005	0.29	3.92	60	0.08	10.35	170	1.3
ZZ40609		<0.005	0.51	3.05	78	0.09	11.35	239	1.6
ZZ40610		<0.005	0.53	6.33	80	0.08	11.50	429	2.0
ZZ40611		<0.005	0.20	1.22	30	<0.05	8.07	214	1.3
ZZ40612		<0.005	0.41	2.39	61	0.05	7.75	236	1.4
ZZ40613		<0.005	0.29	2.56	46	0.05	8.74	205	1.3
ZZ40614		<0.005	0.24	1.80	47	0.09	6.48	172	1.2
ZZ40615		<0.005	0.37	2.17	59	0.05	10.50	341	2.0
ZZ40616		0.010	0.24	1.28	43	0.09	11.80	146	1.4
ZZ40617		<0.005	0.37	2.98	50	0.06	11.65	256	1.5
ZZ40618		0.009	0.24	1.74	43	0.10	14.40	183	1.3
ZZ40619		<0.005	0.25	3.01	50	0.09	13.90	231	1.6
ZZ40620		0.012	0.18	1.05	39	0.11	10.90	191	1.4
ZZ40621		<0.005	0.29	2.36	52	0.05	10.35	120	1.3
ZZ40622		0.005	0.14	1.33	39	0.07	13.20	121	1.8
ZZ40623		<0.005	0.14	1.60	50	0.06	17.30	134	3.5
ZZ40624		<0.005	0.17	0.96	42	<0.05	9.41	134	1.7
ZZ40625		0.006	0.14	1.49	36	0.05	9.97	95	1.3





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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40626		0.19	0.004	0.09	1.09	26.9	<0.2	<10	230	0.59	0.29	0.43	0.43	14.60	12.3	22
ZZ40627		0.22	0.005	0.62	1.18	37.0	<0.2	<10	340	0.81	0.26	0.62	0.61	21.4	11.3	25
ZZ40628		0.17	0.004	0.39	1.18	25.6	<0.2	<10	350	0.86	0.23	1.15	0.62	21.4	11.1	24
ZZ40629		0.21	0.003	0.23	1.41	21.0	<0.2	<10	300	0.85	0.26	0.77	0.35	14.95	14.9	25
ZZ40630		0.17	0.004	0.44	1.48	20.3	<0.2	<10	420	0.73	0.22	1.23	0.64	24.3	10.3	32
ZZ40631		0.13	0.006	0.69	1.47	69.9	<0.2	<10	370	0.96	0.25	0.93	0.78	23.7	10.9	29
ZZ40632		0.20	0.009	0.39	1.78	47.9	<0.2	<10	330	1.07	0.27	0.49	0.78	40.0	13.4	30
ZZ40633		0.24	0.004	0.35	1.52	34.4	<0.2	<10	310	0.86	0.26	0.39	0.42	27.1	14.3	28
ZZ40634		0.22	0.005	0.41	1.70	36.5	<0.2	<10	370	2.10	0.27	0.69	0.83	31.1	40.8	28
ZZ40635		0.21	0.006	0.52	1.19	33.3	<0.2	<10	360	0.91	0.22	1.41	0.78	19.65	12.9	23
ZZ40636		0.16	0.005	0.43	1.25	26.1	<0.2	<10	300	0.80	0.22	1.09	0.67	20.9	11.1	23
ZZ40637		0.17	0.005	0.28	1.53	20.1	<0.2	<10	240	0.88	0.24	0.75	0.56	27.1	17.6	24
ZZ40638		0.18	0.004	0.33	1.14	23.7	<0.2	<10	300	0.67	0.19	1.53	0.59	23.3	10.6	22
ZZ40639		0.24	0.005	0.40	1.18	33.3	<0.2	<10	320	0.85	0.23	1.60	1.39	25.8	13.7	25
ZZ40640		0.13	0.007	0.34	1.27	19.4	<0.2	<10	360	0.72	0.19	1.43	1.35	21.4	9.5	25
ZZ40641		0.18	0.004	0.26	1.52	12.3	<0.2	<10	310	0.73	0.22	0.51	0.31	30.0	11.5	27
ZZ40642		0.18	0.004	0.18	1.57	13.9	<0.2	<10	400	0.79	0.22	0.77	0.42	25.9	14.5	26
ZZ40643		0.20	0.003	0.14	1.71	15.2	<0.2	<10	190	0.88	0.26	0.29	0.33	34.6	22.5	25
ZZ40644		0.19	0.004	0.32	1.60	14.8	<0.2	<10	380	0.73	0.24	0.56	0.62	27.6	15.8	29
ZZ40645		0.15	0.003	0.54	0.88	22.7	<0.2	<10	1180	0.58	0.19	1.05	0.62	6.36	5.9	23
ZZ40646		0.21	0.005	0.60	1.03	26.2	<0.2	<10	840	0.66	0.22	0.61	1.57	20.9	12.8	27
ZZ40647		0.19	0.005	0.85	1.22	25.8	<0.2	<10	1140	0.76	0.21	0.89	1.11	21.6	12.1	24
ZZ40648		0.20	0.004	0.35	1.58	18.4	<0.2	<10	560	0.81	0.23	0.54	0.48	25.5	13.5	27
ZZ40649		0.20	0.003	0.17	1.83	14.8	<0.2	<10	370	0.88	0.23	0.69	0.23	28.7	13.6	28
ZZ40650		0.19	0.003	0.10	1.70	14.7	<0.2	<10	280	0.80	0.23	0.22	0.15	31.2	11.9	27
ZZ40651		0.17	0.003	0.14	1.81	15.7	<0.2	<10	150	0.91	0.28	0.59	0.31	34.2	16.6	25
ZZ40652		0.20	0.003	0.16	1.81	15.3	<0.2	<10	190	0.88	0.25	0.59	0.34	30.7	17.9	28
ZZ40653		0.19	0.004	0.24	1.60	31.9	<0.2	<10	220	0.84	0.24	0.85	0.55	27.6	17.8	25
ZZ40654		0.18	0.002	0.28	2.57	24.3	<0.2	<10	200	0.89	0.25	0.19	0.64	24.4	15.4	30
ZZ40655		0.15	0.004	0.33	1.47	35.7	<0.2	<10	710	1.05	0.20	1.77	0.61	22.9	10.3	26
ZZ40656		0.15	0.003	0.41	1.44	20.0	<0.2	<10	390	0.92	0.25	0.70	0.71	15.60	13.4	23
ZZ40657		0.14	0.004	0.31	1.82	18.9	<0.2	<10	370	0.99	0.24	0.47	0.23	34.0	15.1	31
ZZ40658		0.14	0.003	0.15	1.76	19.8	<0.2	<10	360	0.75	0.23	0.72	0.51	23.3	11.3	27
ZZ40659		0.22	0.003	0.19	2.00	18.2	<0.2	<10	370	0.96	0.24	0.35	0.22	36.4	14.0	31
ZZ40660		0.16	0.004	0.22	1.93	19.4	<0.2	<10	430	1.07	0.26	0.26	0.25	36.5	22.1	30
ZZ40661		0.10	0.004	0.22	1.68	12.8	<0.2	<10	420	0.98	0.24	1.25	0.36	25.7	15.3	25
ZZ40662		0.18	0.004	0.25	1.82	15.2	<0.2	<10	500	0.90	0.25	0.57	0.45	33.3	18.2	28
ZZ40663		0.18	0.004	0.29	1.81	16.7	<0.2	<10	1080	0.97	0.24	0.91	0.42	25.8	13.1	26
ZZ40664		0.20	0.003	0.24	1.67	14.7	<0.2	<10	610	0.86	0.23	0.95	0.51	29.6	16.4	26
ZZ40665		0.21	0.003	0.22	1.65	8.7	<0.2	<10	410	0.86	0.26	0.64	0.57	31.5	11.7	28

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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40626		2.05	34.8	4.03	3.75	<0.05	0.02	0.12	0.041	0.07	5.7	15.3	0.24	444	2.33	<0.01
ZZ40627		2.41	44.5	3.51	3.90	0.05	0.05	0.37	0.037	0.08	11.2	20.5	0.43	379	2.06	<0.01
ZZ40628		1.03	35.1	2.80	3.56	0.05	0.05	0.30	0.037	0.07	12.1	22.5	0.42	421	1.35	0.01
ZZ40629		0.92	40.6	4.03	4.40	<0.05	0.07	0.17	0.044	0.10	6.1	22.7	0.50	301	1.54	0.01
ZZ40630		1.13	44.6	3.55	4.80	0.06	0.09	0.41	0.038	0.07	11.2	23.1	0.61	244	1.16	0.01
ZZ40631		1.85	34.7	3.97	3.97	0.06	0.05	0.36	0.035	0.07	14.3	22.1	0.44	558	3.09	0.01
ZZ40632		1.86	28.9	3.83	5.18	0.07	0.05	0.27	0.038	0.07	18.1	22.4	0.46	832	1.79	0.01
ZZ40633		1.12	42.5	3.91	4.85	0.06	0.06	0.17	0.032	0.09	13.5	30.9	0.64	670	1.61	0.01
ZZ40634		1.33	57.8	3.79	4.53	0.11	0.07	0.24	0.035	0.09	16.7	35.9	0.60	1550	1.79	0.01
ZZ40635		1.05	44.6	2.98	3.62	0.05	0.05	0.28	0.035	0.08	11.4	19.8	0.46	503	1.59	0.01
ZZ40636		1.32	41.7	2.80	3.97	0.05	0.06	0.27	0.040	0.09	11.7	24.3	0.51	324	1.39	<0.01
ZZ40637		1.38	63.9	3.59	5.13	0.06	0.08	0.16	0.037	0.09	13.6	30.6	0.73	667	1.22	<0.01
ZZ40638		1.25	30.6	2.43	3.77	0.05	0.04	0.18	0.038	0.07	9.6	21.3	0.53	576	1.05	<0.01
ZZ40639		1.12	53.2	2.75	3.63	0.07	0.07	0.32	0.033	0.07	13.5	19.9	0.75	201	1.45	<0.01
ZZ40640		0.99	60.6	2.35	4.14	0.05	0.09	0.37	0.028	0.06	12.2	21.9	0.62	195	0.56	<0.01
ZZ40641		0.88	42.0	3.13	5.07	0.07	0.06	0.13	0.031	0.06	16.9	27.7	0.67	378	1.03	<0.01
ZZ40642		0.74	46.1	3.46	4.87	0.05	0.06	0.13	0.032	0.06	12.9	31.7	0.72	494	0.94	<0.01
ZZ40643		1.22	76.8	4.16	6.02	0.07	0.12	0.12	0.046	0.10	16.8	35.1	0.87	691	0.87	<0.01
ZZ40644		0.93	58.4	3.11	4.93	0.06	0.10	0.16	0.034	0.08	13.9	28.5	0.86	500	1.26	0.01
ZZ40645		0.84	40.2	2.52	2.85	<0.05	0.03	0.14	0.033	0.07	3.4	11.2	0.18	126	4.50	0.01
ZZ40646		1.07	44.8	2.96	3.21	0.06	0.04	0.13	0.034	0.10	11.0	10.3	0.31	393	4.98	0.01
ZZ40647		1.47	59.8	3.29	3.62	0.05	0.08	0.23	0.041	0.09	9.7	20.2	0.61	664	3.34	<0.01
ZZ40648		1.07	60.0	3.56	4.88	0.06	0.07	0.16	0.032	0.09	13.0	26.1	0.67	322	1.75	<0.01
ZZ40649		0.95	53.0	3.81	5.18	0.05	0.07	0.10	0.036	0.08	14.2	32.9	0.74	345	1.04	<0.01
ZZ40650		1.11	36.8	3.42	5.04	0.07	0.04	0.09	0.033	0.06	16.4	25.6	0.62	379	1.11	<0.01
ZZ40651		1.28	57.3	4.09	5.41	0.06	0.13	0.09	0.031	0.13	15.4	42.3	0.79	684	0.95	<0.01
ZZ40652		1.33	63.2	4.32	5.51	0.07	0.10	0.11	0.036	0.11	15.4	34.1	0.92	519	0.94	0.01
ZZ40653		1.27	62.2	4.23	4.74	0.06	0.09	0.14	0.036	0.09	13.7	30.4	1.03	760	1.44	0.01
ZZ40654		1.57	12.9	3.61	5.81	<0.05	0.06	0.10	0.042	0.05	9.0	21.9	0.32	583	1.79	<0.01
ZZ40655		1.10	34.8	3.69	4.10	0.06	0.04	0.23	0.039	0.06	13.6	26.0	0.55	671	2.08	0.01
ZZ40656		1.38	28.1	3.28	4.30	<0.05	0.05	0.16	0.042	0.08	7.4	18.6	0.37	319	5.06	0.01
ZZ40657		1.25	58.7	3.79	5.58	0.08	0.08	0.14	0.036	0.08	24.0	34.8	0.71	506	1.38	0.01
ZZ40658		1.12	35.6	3.48	5.62	0.05	0.05	0.07	0.033	0.07	12.5	23.8	0.48	279	1.27	<0.01
ZZ40659		1.40	43.9	3.86	6.01	0.06	0.04	0.11	0.038	0.08	20.5	26.0	0.60	477	1.32	0.01
ZZ40660		0.99	79.6	4.48	5.90	0.08	0.07	0.21	0.036	0.09	19.2	33.3	0.89	826	1.23	<0.01
ZZ40661		1.09	60.7	3.33	5.21	0.06	0.06	0.14	0.037	0.09	12.8	31.0	0.70	627	0.93	0.01
ZZ40662		1.04	55.9	3.94	5.44	0.06	0.10	0.13	0.034	0.10	16.8	34.5	0.79	487	1.21	0.01
ZZ40663		1.42	66.0	3.55	5.26	0.05	0.08	0.18	0.034	0.14	12.5	32.7	0.69	316	1.36	0.01
ZZ40664		0.81	51.1	3.45	4.91	0.05	0.07	0.13	0.036	0.09	14.2	27.5	0.70	756	1.05	0.01
ZZ40665		0.96	43.5	2.52	4.91	0.05	0.09	0.16	0.035	0.08	15.5	30.3	0.70	250	0.64	0.01

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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40626		0.42	34.0	320	20.8	11.6	0.002	0.02	0.73	3.7	1.3	0.6	23.1	<0.01	0.06	2.2
ZZ40627		0.32	36.2	730	20.6	10.9	0.001	0.04	0.89	6.8	2.6	0.5	35.3	<0.01	0.07	2.2
ZZ40628		0.44	37.3	530	15.7	9.1	0.001	0.07	0.60	5.3	2.3	0.5	46.4	<0.01	0.04	1.7
ZZ40629		0.23	40.5	700	20.9	9.6	0.001	0.05	0.58	6.0	1.6	0.5	35.7	<0.01	0.06	3.1
ZZ40630		0.70	36.8	1000	17.7	9.5	0.003	0.11	0.70	6.4	4.6	0.5	50.6	<0.01	0.06	2.1
ZZ40631		0.35	36.1	1070	24.8	8.9	<0.001	0.06	1.34	6.6	1.8	0.4	44.4	<0.01	0.06	2.0
ZZ40632		0.81	40.3	1010	25.4	11.1	0.001	0.03	0.92	5.7	1.6	0.5	31.4	<0.01	0.04	3.3
ZZ40633		0.38	36.9	700	19.3	8.8	0.001	0.03	0.76	7.0	1.3	0.4	32.4	<0.01	0.05	3.2
ZZ40634		0.54	167.5	960	20.0	8.4	<0.001	0.05	0.93	7.2	3.8	0.4	42.5	<0.01	0.05	3.2
ZZ40635		0.34	39.3	1020	16.9	7.8	0.001	0.09	0.98	5.2	2.2	0.4	61.4	<0.01	0.05	1.3
ZZ40636		0.38	35.0	810	17.3	8.3	<0.001	0.05	0.80	6.1	1.5	0.4	52.5	<0.01	0.08	1.8
ZZ40637		0.24	38.9	720	17.4	7.8	0.001	0.03	0.74	7.3	1.3	0.3	40.2	<0.01	0.08	3.1
ZZ40638		0.49	27.7	740	15.9	8.8	<0.001	0.06	0.66	4.8	1.7	0.4	60.6	<0.01	0.05	1.2
ZZ40639		0.45	34.9	920	22.2	7.6	0.001	0.06	0.89	6.6	2.2	0.4	47.3	<0.01	0.06	2.4
ZZ40640		0.64	29.2	670	16.0	7.3	0.005	0.19	0.72	6.7	3.5	0.4	52.4	<0.01	0.03	2.6
ZZ40641		0.65	32.7	740	10.9	7.3	0.001	0.01	0.55	6.8	0.9	0.5	31.9	<0.01	0.06	4.0
ZZ40642		0.34	31.6	670	15.2	6.3	0.001	0.02	0.53	6.2	1.2	0.4	38.6	<0.01	0.06	3.2
ZZ40643		0.08	41.9	470	22.3	6.6	<0.001	<0.01	0.49	8.1	0.4	0.3	26.4	<0.01	0.06	4.9
ZZ40644		0.31	38.1	720	16.0	6.6	0.002	0.02	0.65	7.3	3.4	0.4	33.8	<0.01	0.10	4.4
ZZ40645		0.16	41.5	590	12.7	8.4	0.001	0.04	1.28	3.9	3.1	0.5	63.8	<0.01	0.07	1.4
ZZ40646		0.55	47.2	1070	11.9	8.4	0.001	0.02	1.43	6.2	2.5	0.5	61.9	<0.01	0.07	3.3
ZZ40647		0.20	55.1	990	15.3	7.2	0.003	0.03	1.23	7.4	1.9	0.4	69.1	<0.01	0.08	3.5
ZZ40648		0.35	36.9	760	15.8	7.6	0.001	0.01	0.74	7.3	1.7	0.4	35.0	<0.01	0.08	3.9
ZZ40649		0.23	32.2	480	15.0	7.6	<0.001	0.01	0.57	6.9	1.4	0.4	35.8	<0.01	0.08	3.6
ZZ40650		0.46	28.4	340	15.5	8.7	0.001	<0.01	0.54	6.1	0.8	0.4	18.7	<0.01	0.06	4.3
ZZ40651		0.17	34.8	720	18.1	7.6	<0.001	0.01	0.65	6.5	0.5	0.3	47.0	<0.01	0.07	5.2
ZZ40652		0.21	35.9	670	17.5	7.0	<0.001	0.01	0.57	7.8	0.7	0.4	36.2	<0.01	0.06	4.4
ZZ40653		0.15	41.5	520	19.1	6.5	<0.001	0.01	0.77	7.9	0.9	0.3	30.7	<0.01	0.10	4.3
ZZ40654		1.25	28.0	780	21.5	11.4	<0.001	0.01	0.69	3.3	0.6	0.7	15.4	0.01	0.06	3.6
ZZ40655		0.66	31.5	710	24.6	8.1	0.001	0.03	0.97	6.7	1.7	0.4	66.4	<0.01	0.05	1.8
ZZ40656		0.27	28.1	870	17.3	12.2	0.003	0.03	1.04	5.6	3.4	0.5	49.5	<0.01	0.07	2.9
ZZ40657		0.61	36.9	420	18.4	9.7	<0.001	<0.01	0.71	10.2	1.2	0.5	27.7	<0.01	0.07	5.3
ZZ40658		0.61	26.9	380	15.9	12.0	<0.001	0.01	0.54	5.6	0.7	0.5	32.6	<0.01	0.07	3.3
ZZ40659		0.57	31.9	490	18.0	11.2	0.001	<0.01	0.60	7.5	1.5	0.5	24.5	<0.01	0.07	4.4
ZZ40660		0.09	41.4	420	22.3	6.5	<0.001	<0.01	0.63	12.7	1.6	0.3	24.0	<0.01	0.09	5.7
ZZ40661		0.31	33.3	610	15.7	8.4	0.001	0.04	0.59	6.6	1.3	0.4	55.0	<0.01	0.08	2.2
ZZ40662		0.35	37.3	710	18.0	7.8	0.001	0.01	0.62	7.6	1.5	0.4	36.5	<0.01	0.06	4.8
ZZ40663		0.24	35.9	650	15.7	9.2	0.001	0.04	0.77	6.9	0.8	0.4	47.9	<0.01	0.08	3.2
ZZ40664		0.42	33.6	710	16.9	7.3	<0.001	0.04	0.59	6.4	1.3	0.4	45.1	<0.01	0.05	3.1
ZZ40665		0.62	29.9	530	19.1	8.5	0.002	0.05	0.69	6.5	1.7	0.4	36.5	<0.01	0.07	4.6

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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40626		0.006	0.19	0.55	50	0.09	3.79	156	0.9
ZZ40627		0.007	0.25	1.20	45	0.08	15.95	135	1.5
ZZ40628		0.006	0.17	1.00	37	0.16	20.0	94	1.5
ZZ40629		<0.005	0.14	1.09	37	0.05	11.75	115	2.1
ZZ40630		0.008	0.14	2.55	45	0.07	14.85	171	2.7
ZZ40631		0.008	0.37	1.31	60	0.11	21.9	164	1.4
ZZ40632		0.018	0.29	1.70	58	0.21	20.5	139	1.2
ZZ40633		0.010	0.18	1.00	48	0.08	15.40	118	1.4
ZZ40634		0.012	0.21	2.10	47	0.17	59.6	365	1.8
ZZ40635		0.006	0.26	1.82	40	0.09	22.4	159	1.5
ZZ40636		0.008	0.22	1.11	40	0.10	19.05	128	1.6
ZZ40637		0.006	0.17	0.99	44	0.05	15.15	110	2.2
ZZ40638		0.010	0.21	1.35	39	0.12	12.15	131	1.3
ZZ40639		0.009	0.24	1.47	48	0.11	20.0	150	2.0
ZZ40640		0.011	0.17	1.82	45	0.07	16.25	113	3.2
ZZ40641		0.021	0.13	1.03	46	0.16	15.20	89	1.7
ZZ40642		0.009	0.10	1.36	44	0.07	10.90	79	1.8
ZZ40643		<0.005	0.11	0.48	42	<0.05	13.15	84	4.6
ZZ40644		0.009	0.15	0.78	52	<0.05	12.80	119	4.4
ZZ40645		<0.005	0.21	2.02	72	<0.05	9.99	173	1.2
ZZ40646		0.017	0.17	2.32	62	0.13	18.85	232	1.7
ZZ40647		0.005	0.23	1.46	55	0.06	18.90	163	3.0
ZZ40648		0.008	0.16	1.28	51	0.07	14.20	120	2.3
ZZ40649		0.005	0.11	0.95	48	<0.05	11.70	85	2.4
ZZ40650		0.013	0.13	1.05	48	0.10	12.30	69	1.1
ZZ40651		0.005	0.12	1.06	40	<0.05	11.35	91	4.7
ZZ40652		0.008	0.10	0.60	48	0.05	11.80	92	3.5
ZZ40653		0.005	0.26	0.75	47	<0.05	13.80	109	3.2
ZZ40654		0.020	0.22	0.61	62	0.19	4.76	97	1.7
ZZ40655		0.007	0.21	1.29	57	0.07	20.4	106	1.2
ZZ40656		<0.005	0.34	1.83	70	0.07	10.75	145	1.8
ZZ40657		0.016	0.15	0.75	52	0.10	28.4	89	2.5
ZZ40658		0.009	0.17	1.08	61	0.12	10.70	70	1.7
ZZ40659		0.013	0.17	1.18	58	0.11	19.25	84	1.5
ZZ40660		0.005	0.12	0.97	50	<0.05	23.7	92	3.2
ZZ40661		0.007	0.12	1.47	43	0.05	12.75	72	1.8
ZZ40662		0.009	0.11	0.99	48	0.06	14.10	97	3.6
ZZ40663		0.005	0.20	0.87	47	0.06	13.75	98	2.9
ZZ40664		0.010	0.12	1.38	48	0.07	13.65	88	2.2
ZZ40665		0.013	0.14	1.40	50	0.08	11.60	95	3.1



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40666		0.18	0.004	0.27	1.48	21.4	<0.2	<10	390	0.77	0.22	0.71	0.42	25.7	11.3	24
ZZ40667		0.17	0.002	0.13	2.24	34.5	<0.2	<10	300	0.99	0.22	0.07	0.40	37.1	15.5	30
ZZ40668		0.21	0.003	0.15	1.46	20.7	<0.2	<10	240	0.68	0.22	3.98	0.45	27.4	16.3	20
ZZ40669		0.17	0.003	0.07	1.55	12.3	<0.2	<10	360	0.58	0.28	0.58	0.31	27.4	5.8	22
ZZ40670		0.16	0.004	0.20	1.69	18.5	<0.2	<10	320	0.94	0.26	0.87	0.32	31.0	13.9	27
ZZ40671		0.15	0.005	0.33	1.36	16.1	<0.2	<10	740	0.68	0.23	0.94	0.45	25.0	9.8	27
ZZ40672		0.11	0.007	0.32	1.26	33.5	<0.2	<10	1290	0.83	0.26	1.16	0.83	38.7	12.1	24
ZZ40673		0.14	0.002	0.08	1.31	16.9	<0.2	<10	260	0.46	0.24	0.62	0.26	16.70	8.1	24
ZZ40674		0.15	0.002	0.05	1.24	18.5	<0.2	<10	230	0.33	0.28	0.41	0.35	21.1	8.2	25
ZZ40675		0.18	0.001	0.11	1.33	32.2	<0.2	<10	690	0.61	0.29	0.40	0.91	22.5	16.2	22
ZZ40676		0.18	0.003	0.07	2.12	12.2	<0.2	<10	200	0.67	0.25	0.22	0.39	33.7	15.3	30
ZZ40677		0.14	0.001	0.03	1.78	12.8	<0.2	<10	280	0.51	0.26	0.08	0.18	26.0	5.9	23
ZZ40678		0.21	0.002	0.11	1.66	17.0	<0.2	<10	270	0.62	0.29	0.10	0.33	22.8	9.8	26
ZZ40679		0.18	0.003	0.11	1.92	21.0	<0.2	<10	190	1.02	0.27	0.15	0.37	23.9	14.2	28
ZZ40680		0.12	0.005	0.11	2.08	19.1	<0.2	<10	100	1.15	0.30	0.04	0.25	27.2	19.2	30
ZZ40681		0.18	0.004	0.04	2.13	19.5	<0.2	<10	150	0.78	0.33	0.12	0.19	25.9	14.5	33
ZZ40682		0.19	0.009	0.09	2.62	11.1	<0.2	<10	200	1.22	0.31	0.36	0.25	44.6	29.8	39
ZZ40683		0.13	0.007	0.26	1.58	35.7	<0.2	10	180	0.62	0.24	1.27	0.54	18.10	8.1	29
ZZ40684		0.13	0.002	0.05	1.73	50.9	<0.2	<10	140	0.66	0.28	0.32	0.27	24.9	12.5	28
ZZ40685		0.22	0.004	0.20	1.75	25.4	<0.2	10	150	0.81	0.27	0.85	0.18	25.6	9.9	32
ZZ40686		0.21	0.002	0.07	2.46	83.8	<0.2	<10	180	1.28	0.41	0.11	0.29	31.3	23.2	33
ZZ40687		0.14	0.003	0.05	2.09	29.6	<0.2	<10	110	0.90	0.28	0.22	0.25	26.0	13.9	32
ZZ40688		0.18	0.002	0.09	2.04	13.4	<0.2	<10	160	0.87	0.32	0.62	0.17	36.3	22.7	31
ZZ40689		0.23	0.002	0.17	1.95	12.1	<0.2	<10	220	1.10	0.28	1.25	0.24	28.6	16.5	30
ZZ40690		0.16	0.003	0.06	2.32	13.5	<0.2	<10	170	1.02	0.27	0.52	0.10	37.8	24.8	32
ZZ40691		0.17	0.003	0.11	2.34	16.6	<0.2	<10	190	1.27	0.32	0.28	0.16	37.7	19.3	31
ZZ40692		0.13	<0.001	0.03	0.47	12.6	<0.2	<10	40	0.25	0.34	0.02	0.08	15.15	8.8	6
ZZ40693		0.16	0.002	0.42	2.04	22.9	<0.2	<10	210	1.20	0.28	3.61	0.26	35.0	11.6	25
ZZ40694		0.16	<0.001	0.44	1.62	30.6	<0.2	<10	150	0.94	0.21	6.40	0.78	36.6	7.6	21
ZZ40695		0.14	<0.001	0.06	2.11	14.0	<0.2	<10	160	0.76	0.29	0.11	0.17	26.8	8.0	27
ZZ40696		0.15	<0.001	0.04	1.87	11.5	<0.2	<10	270	0.54	0.26	0.14	0.15	24.2	9.1	24
ZZ40697		0.18	0.001	0.19	0.87	27.3	<0.2	<10	130	0.73	0.22	4.25	0.19	23.2	9.3	15
ZZ40698		0.18	0.003	0.11	1.72	19.6	<0.2	<10	180	1.22	0.34	1.04	0.18	30.3	17.6	24
ZZ40699		0.17	<0.001	0.06	1.61	33.3	<0.2	<10	290	0.89	0.27	0.62	0.63	27.2	10.0	19
ZZ40700		0.13	0.002	0.14	1.10	864	<0.2	<10	230	0.95	0.53	0.88	0.91	66.0	17.9	18

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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40666		0.79	39.1	3.40	4.51	0.05	0.07	0.11	0.031	0.07	12.7	27.0	0.64	343	1.31	0.01
ZZ40667		1.37	34.0	4.02	5.18	0.05	0.08	0.19	0.042	0.07	12.8	29.0	0.60	445	1.61	0.01
ZZ40668		1.22	55.1	3.53	4.39	0.06	0.13	0.21	0.029	0.11	13.6	30.6	0.86	573	1.21	0.01
ZZ40669		1.45	10.3	2.63	6.05	<0.05	0.02	0.02	0.028	0.04	13.2	13.2	0.23	219	1.63	0.01
ZZ40670		1.07	60.8	3.72	5.02	0.05	0.08	0.17	0.037	0.10	15.0	33.9	0.69	557	1.30	0.01
ZZ40671		0.88	31.2	2.69	4.31	<0.05	0.04	0.13	0.029	0.07	12.7	16.7	0.48	214	1.60	0.01
ZZ40672		0.97	30.1	4.03	4.26	0.05	0.03	0.31	0.035	0.05	13.5	16.2	0.29	1300	1.85	<0.01
ZZ40673		1.02	13.7	2.55	4.78	<0.05	0.02	0.04	0.024	0.06	7.9	32.6	0.36	473	1.51	<0.01
ZZ40674		0.74	14.3	3.58	5.62	<0.05	0.02	0.03	0.027	0.07	9.1	23.3	0.34	348	1.72	<0.01
ZZ40675		0.84	38.0	3.59	5.12	<0.05	<0.02	0.05	0.033	0.07	8.3	19.4	0.33	1740	1.36	<0.01
ZZ40676		1.17	15.2	2.77	4.62	0.05	0.06	0.05	0.028	0.07	14.9	19.2	0.54	357	1.20	<0.01
ZZ40677		1.18	9.5	2.57	7.19	<0.05	0.04	0.03	0.029	0.03	13.1	19.6	0.26	179	1.36	<0.01
ZZ40678		1.18	13.3	3.13	5.91	<0.05	0.03	0.05	0.034	0.05	9.8	22.6	0.30	343	1.56	<0.01
ZZ40679		1.02	38.8	3.99	4.63	<0.05	0.06	0.08	0.033	0.04	8.9	38.1	0.56	473	1.27	<0.01
ZZ40680		1.30	45.4	3.98	4.28	0.05	0.07	0.13	0.037	0.05	10.8	33.8	0.62	440	1.09	<0.01
ZZ40681		1.61	20.2	4.26	6.47	<0.05	0.03	0.04	0.039	0.05	11.0	29.0	0.51	635	1.70	<0.01
ZZ40682		1.85	135.5	5.38	8.72	0.08	0.13	0.13	0.040	0.13	21.1	44.5	1.45	1080	0.63	<0.01
ZZ40683		6.91	32.5	3.38	4.52	<0.05	0.09	0.14	0.032	0.09	8.6	32.3	0.68	228	2.05	0.01
ZZ40684		2.17	21.3	3.51	5.57	<0.05	0.03	0.05	0.031	0.08	10.6	49.3	0.52	635	2.21	<0.01
ZZ40685		3.87	50.4	3.59	5.17	0.05	0.12	0.16	0.036	0.12	13.7	36.1	0.83	210	1.18	0.01
ZZ40686		2.95	40.4	4.74	6.20	<0.05	0.04	0.10	0.045	0.09	11.1	39.0	0.58	683	1.95	<0.01
ZZ40687		1.61	22.6	3.56	5.94	<0.05	0.03	0.06	0.032	0.07	12.6	34.3	0.67	620	1.17	<0.01
ZZ40688		1.12	81.9	4.53	6.31	0.06	0.11	0.08	0.033	0.08	17.3	36.9	1.05	473	0.60	<0.01
ZZ40689		1.08	108.0	3.89	5.96	0.06	0.06	0.17	0.035	0.09	15.8	30.7	0.81	650	0.74	<0.01
ZZ40690		1.20	94.5	4.76	6.68	0.07	0.10	0.15	0.040	0.10	18.1	38.0	1.08	706	0.60	<0.01
ZZ40691		1.34	40.5	4.69	6.02	0.06	0.10	0.06	0.046	0.05	15.8	50.0	0.72	717	0.84	<0.01
ZZ40692		1.39	23.7	3.20	1.87	<0.05	0.02	0.09	0.032	0.06	6.6	2.9	0.06	248	0.53	<0.01
ZZ40693		1.24	26.7	4.49	4.89	0.07	0.08	0.29	0.034	0.05	17.6	22.6	2.23	1090	0.70	0.01
ZZ40694		0.94	11.6	3.83	3.99	0.05	0.05	0.12	0.028	0.04	19.6	9.2	3.79	1540	1.04	0.01
ZZ40695		1.68	14.8	3.33	6.75	<0.05	0.06	0.05	0.028	0.04	13.4	28.4	0.38	232	1.61	<0.01
ZZ40696		1.27	17.5	3.26	6.25	<0.05	0.06	0.04	0.025	0.04	11.9	34.2	0.44	274	0.95	<0.01
ZZ40697		4.18	26.1	3.08	2.41	0.05	0.07	0.36	0.019	0.05	11.1	14.9	2.60	973	0.49	<0.01
ZZ40698		2.49	52.0	4.35	4.47	0.06	0.06	0.10	0.040	0.06	12.4	31.3	0.57	814	0.85	<0.01
ZZ40699		1.41	25.1	3.23	6.32	<0.05	0.03	0.05	0.039	0.03	12.3	14.3	0.29	649	1.28	<0.01
ZZ40700		10.10	35.6	3.69	3.50	0.06	0.07	0.36	0.028	0.05	16.8	32.9	0.59	3980	0.83	<0.01

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 Account: RCM

Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40666		0.25	30.0	860	15.7	7.0	0.001	0.03	0.62	5.8	0.9	0.3	43.8	<0.01	0.07	2.8
ZZ40667		0.35	42.6	350	19.2	11.6	<0.001	<0.01	0.64	4.9	0.6	0.4	10.8	<0.01	0.08	4.5
ZZ40668		0.11	33.5	730	17.1	6.7	0.001	<0.01	0.64	5.9	0.7	0.3	151.5	<0.01	0.07	5.2
ZZ40669		1.07	12.4	390	15.5	8.7	<0.001	0.01	0.51	2.4	0.2	0.7	29.4	<0.01	0.04	2.5
ZZ40670		0.19	35.6	770	15.9	8.1	<0.001	0.03	0.75	6.6	0.9	0.3	48.9	<0.01	0.12	3.1
ZZ40671		0.79	29.6	760	13.7	8.2	0.002	0.03	0.70	4.7	1.3	0.5	42.9	<0.01	0.06	2.8
ZZ40672		0.52	25.5	1140	28.7	7.8	0.001	0.06	0.84	5.0	1.6	0.4	47.2	<0.01	0.05	1.8
ZZ40673		1.12	17.3	380	12.9	8.7	<0.001	0.03	0.51	2.1	1.1	0.5	28.1	<0.01	0.04	1.5
ZZ40674		1.35	16.0	290	16.7	8.7	<0.001	0.02	0.61	2.2	0.5	0.6	16.4	<0.01	0.06	2.4
ZZ40675		0.56	19.6	410	22.7	10.3	<0.001	0.03	0.56	3.1	0.3	0.5	22.4	<0.01	0.09	1.8
ZZ40676		1.63	33.6	690	13.0	8.5	<0.001	0.02	0.74	3.6	0.9	0.5	15.3	0.01	0.02	5.5
ZZ40677		1.49	12.6	180	12.4	6.3	<0.001	0.01	0.48	2.8	0.4	0.9	7.2	<0.01	0.03	3.3
ZZ40678		1.45	17.9	320	19.0	9.3	<0.001	0.02	0.51	2.4	0.4	0.7	8.6	<0.01	0.03	2.9
ZZ40679		0.55	33.2	310	21.9	8.6	<0.001	0.01	0.66	3.8	0.7	0.4	10.8	<0.01	0.04	3.9
ZZ40680		0.51	39.0	390	26.0	9.5	<0.001	0.01	0.71	4.6	1.1	0.3	6.4	0.01	0.04	5.9
ZZ40681		1.28	24.8	440	24.7	9.1	<0.001	0.02	0.71	3.3	0.6	0.6	10.7	<0.01	0.04	3.8
ZZ40682		0.10	47.9	620	20.3	9.1	<0.001	0.02	0.44	11.8	1.3	0.4	26.5	<0.01	0.09	5.3
ZZ40683		0.45	27.3	1260	11.7	14.1	0.002	0.13	0.62	5.1	2.5	0.4	53.9	<0.01	0.03	1.9
ZZ40684		0.88	22.6	340	16.6	16.4	<0.001	0.03	0.49	3.3	0.5	0.5	20.3	<0.01	0.04	2.9
ZZ40685		0.42	27.9	1200	11.6	26.8	0.001	0.07	0.53	8.0	1.4	0.4	44.9	<0.01	0.03	2.8
ZZ40686		0.78	37.1	420	31.2	16.3	<0.001	0.02	0.66	4.7	0.9	0.6	11.2	<0.01	0.10	4.3
ZZ40687		0.93	26.8	290	17.9	13.0	<0.001	0.02	0.55	3.9	0.8	0.6	12.6	<0.01	0.04	3.8
ZZ40688		0.18	36.7	500	22.6	6.4	<0.001	0.03	0.49	8.6	1.0	0.3	35.0	<0.01	0.09	4.3
ZZ40689		0.45	33.7	600	16.6	8.1	0.001	0.05	0.49	7.1	1.4	0.4	60.5	<0.01	0.09	1.7
ZZ40690		0.12	38.5	230	19.7	8.2	0.001	0.02	0.44	10.1	0.8	0.3	31.5	<0.01	0.07	4.5
ZZ40691		0.44	35.3	420	22.8	9.0	<0.001	0.02	0.46	7.1	1.2	0.4	21.6	<0.01	0.06	5.1
ZZ40692		0.12	16.3	210	15.7	8.5	<0.001	0.01	0.25	2.7	0.3	0.4	8.7	<0.01	0.04	2.9
ZZ40693		0.41	22.2	900	62.3	9.3	0.001	0.04	0.57	7.0	1.2	0.4	27.6	<0.01	0.06	3.5
ZZ40694		0.61	16.6	1270	72.5	5.6	0.001	0.05	1.21	3.6	0.9	0.5	37.3	<0.01	0.04	1.8
ZZ40695		1.25	17.0	220	17.1	10.3	<0.001	0.01	0.61	2.8	0.7	0.7	8.1	<0.01	0.04	4.0
ZZ40696		0.70	18.4	190	14.1	7.7	0.001	0.01	0.41	2.9	0.5	0.6	11.6	<0.01	0.04	3.2
ZZ40697		0.17	24.4	980	60.6	5.3	0.001	0.03	0.44	4.0	1.0	0.2	31.2	<0.01	0.04	2.6
ZZ40698		0.32	30.7	560	26.8	7.9	<0.001	0.05	0.56	7.8	1.4	0.3	61.1	<0.01	0.06	2.6
ZZ40699		0.64	14.2	310	20.0	6.4	<0.001	0.02	0.41	4.0	0.7	0.7	37.2	<0.01	0.04	2.7
ZZ40700		0.19	29.3	670	40.9	18.1	<0.001	0.04	0.71	5.0	0.9	0.3	42.7	<0.01	0.08	2.1

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**CERTIFICATE OF ANALYSIS WH12193036**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40666		0.006	0.11	1.51	50	0.06	11.90	93	1.8
ZZ40667		0.006	0.23	0.85	65	0.08	6.73	94	2.7
ZZ40668		0.007	0.16	0.76	36	0.05	10.65	89	6.4
ZZ40669		0.025	0.19	0.89	66	0.28	5.82	72	0.6
ZZ40670		0.005	0.12	1.10	41	0.06	15.35	89	2.9
ZZ40671		0.021	0.13	2.15	52	0.25	12.85	102	1.3
ZZ40672		0.011	0.15	1.47	61	0.13	15.70	99	0.9
ZZ40673		0.030	0.12	1.16	51	0.22	3.71	89	0.7
ZZ40674		0.030	0.09	0.40	62	0.20	2.19	99	1.1
ZZ40675		0.013	0.13	0.51	54	0.10	3.51	152	0.5
ZZ40676		0.052	0.13	0.79	45	0.29	6.06	96	2.4
ZZ40677		0.023	0.15	0.42	70	0.22	2.54	55	1.4
ZZ40678		0.022	0.15	0.47	61	0.23	2.48	69	1.1
ZZ40679		0.006	0.12	0.51	40	0.07	4.80	83	2.1
ZZ40680		0.012	0.10	0.93	34	0.08	4.91	75	2.9
ZZ40681		0.026	0.16	0.65	60	0.23	3.41	70	1.1
ZZ40682		0.006	0.07	0.43	67	<0.05	12.70	90	5.7
ZZ40683		0.013	0.10	1.94	51	0.14	8.18	146	2.4
ZZ40684		0.021	0.13	1.28	48	0.14	3.52	73	1.0
ZZ40685		0.014	0.12	0.80	37	0.06	14.00	132	3.1
ZZ40686		0.011	0.27	1.05	52	0.13	5.43	90	1.5
ZZ40687		0.018	0.17	0.69	52	0.20	3.99	146	1.3
ZZ40688		0.006	0.08	0.58	48	<0.05	12.85	77	3.9
ZZ40689		0.011	0.07	0.96	52	0.09	15.75	68	1.6
ZZ40690		<0.005	0.08	0.54	55	<0.05	12.65	72	3.4
ZZ40691		0.007	0.10	0.87	45	0.09	12.50	71	3.7
ZZ40692		<0.005	0.15	0.19	15	<0.05	1.81	58	0.9
ZZ40693		0.005	0.21	1.70	41	0.11	18.85	111	2.1
ZZ40694		0.012	0.20	1.73	44	0.16	14.05	114	1.3
ZZ40695		0.022	0.16	0.50	61	0.24	2.69	64	2.3
ZZ40696		0.010	0.12	0.37	52	0.15	2.58	49	1.9
ZZ40697		<0.005	0.51	1.50	23	0.08	11.75	71	1.9
ZZ40698		0.006	0.13	1.04	38	0.07	16.95	79	1.6
ZZ40699		0.008	0.13	0.55	56	0.13	5.59	45	1.0
ZZ40700		0.006	0.38	0.68	31	0.09	15.10	96	1.7



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**CERTIFICATE OF ANALYSIS WH12193036**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12193037**

Project: ATAC- Regional - Area E/D  
 P.O. No.: Soil 31  
 This report is for 189 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ49371		0.16	0.001	0.23	1.38	15.0	<0.2	<10	1460	0.66	0.22	0.74	1.11	21.9	9.8	24
ZZ49372		0.22	0.003	0.72	1.60	20.3	<0.2	<10	1380	0.82	0.24	0.14	1.78	19.30	10.3	31
ZZ49373		0.18	0.002	0.19	1.96	12.7	<0.2	<10	330	0.63	0.26	0.11	0.47	27.4	10.7	29
ZZ49374		0.23	0.003	2.41	0.13	13.2	<0.2	<10	440	0.11	0.23	0.06	0.20	1.64	0.2	4
ZZ49375		0.21	0.003	0.30	0.40	10.6	<0.2	<10	210	0.74	0.25	0.19	0.76	6.30	10.5	10
ZZ49376		0.13	0.010	0.75	0.38	13.4	<0.2	<10	210	0.74	0.18	0.98	5.46	12.25	15.1	20
ZZ49377		0.23	0.010	0.27	0.28	4.7	<0.2	<10	210	0.49	0.08	2.94	1.10	15.45	62.0	31
ZZ49378		0.16	0.010	0.85	0.27	18.7	<0.2	<10	100	0.76	0.23	0.93	1.12	17.10	14.9	7
ZZ49379		0.20	0.012	1.19	0.22	57.8	<0.2	<10	100	0.80	0.33	0.68	1.80	17.30	21.5	9
ZZ49380		0.14	0.009	1.12	0.28	16.8	<0.2	<10	90	0.72	0.24	0.74	1.34	25.9	15.7	7
ZZ49381		0.20	0.012	1.23	0.26	22.1	<0.2	<10	120	0.67	0.25	1.09	1.83	32.6	21.6	8
ZZ49382		0.13	0.005	0.23	0.67	10.0	<0.2	<10	60	0.33	0.21	0.10	0.27	15.85	7.0	14
ZZ49383		0.21	0.003	0.20	0.78	67.7	<0.2	<10	120	0.41	0.25	0.05	0.15	18.90	13.0	16
ZZ49384		0.16	0.003	0.18	0.83	27.6	<0.2	<10	110	0.47	0.17	0.15	0.22	26.9	14.2	22
ZZ49385		0.17	0.002	1.43	0.37	11.0	<0.2	<10	100	0.17	0.22	0.06	0.37	16.70	3.1	31
ZZ49386		0.19	0.001	0.34	0.54	8.4	<0.2	<10	120	0.59	0.15	0.16	0.39	35.7	11.5	6
ZZ49387		0.20	0.005	1.03	1.11	92.8	<0.2	<10	430	0.87	0.18	1.64	4.16	17.80	9.2	23
ZZ49388		0.18	0.002	0.37	1.66	33.9	<0.2	<10	120	0.78	0.30	0.21	1.25	21.8	12.0	29
ZZ49389		0.20	0.003	3.32	0.73	51.7	<0.2	<10	260	0.80	0.27	0.17	3.36	12.70	3.6	27
ZZ49390		0.21	<0.001	0.14	1.15	6.1	<0.2	<10	1090	1.66	0.19	1.04	0.23	51.5	8.9	12
ZZ49391		0.22	0.001	0.16	1.62	6.7	<0.2	<10	1190	2.01	0.21	0.87	0.29	100.5	11.6	13
ZZ49392		0.09	0.001	0.06	1.13	10.4	<0.2	<10	350	1.23	0.10	2.13	0.23	52.1	13.4	15
ZZ49393		0.18	<0.001	0.09	1.15	11.0	<0.2	<10	360	0.91	0.16	0.26	0.15	27.5	10.7	16
ZZ49394		0.12	0.001	0.49	0.84	9.2	<0.2	<10	180	0.71	0.17	1.28	3.02	37.6	8.6	14
ZZ49395		0.16	0.002	0.44	0.95	19.9	<0.2	<10	200	1.21	0.22	1.88	4.99	38.0	11.8	15
ZZ49396		0.17	<0.001	0.37	1.10	25.1	<0.2	<10	240	0.95	0.25	0.41	1.70	22.6	6.7	22
ZZ49397		0.15	0.004	1.16	1.02	61.2	<0.2	<10	330	1.34	0.21	1.57	10.90	36.8	11.7	22
ZZ49445		0.11	0.003	0.42	0.84	16.2	<0.2	<10	200	0.57	0.21	0.18	0.44	22.6	9.7	27
ZZ49446		0.12	<0.001	0.32	1.19	12.9	<0.2	<10	150	0.69	0.18	0.18	0.97	24.1	11.5	35
ZZ49447		0.18	0.003	0.15	1.23	14.9	<0.2	<10	160	0.67	0.20	0.15	0.74	34.9	15.3	33
ZZ49448		0.18	0.001	0.08	2.06	12.3	<0.2	<10	120	0.81	0.19	0.09	0.33	42.2	21.0	34
ZZ49449		0.09	0.005	0.44	1.04	11.9	<0.2	<10	90	0.29	0.17	0.04	0.16	32.6	7.6	18
ZZ49450		0.10	0.007	0.24	1.16	10.5	<0.2	<10	120	0.47	0.16	0.09	0.22	26.1	9.4	25
ZZ49451		0.14	0.003	0.49	1.24	13.2	<0.2	<10	140	0.71	0.18	0.23	1.75	39.6	15.7	29
ZZ49452		0.15	0.003	0.48	1.36	16.1	<0.2	<10	270	0.95	0.19	0.49	0.88	44.1	11.8	24
ZZ49453		0.24	0.003	0.07	1.93	14.3	<0.2	<10	120	0.81	0.23	0.16	0.40	45.4	15.4	35
ZZ49454		0.18	<0.001	0.08	0.87	10.8	<0.2	<10	100	0.24	0.26	0.03	0.17	27.1	10.0	34
ZZ49455		0.10	0.003	0.18	0.92	12.7	<0.2	<10	120	0.32	0.22	0.03	0.41	24.3	7.7	19
ZZ49456		0.21	0.002	0.03	1.85	10.9	<0.2	<10	180	0.73	0.20	0.12	0.15	37.3	11.9	30
ZZ49457		0.15	0.001	0.06	1.58	10.4	<0.2	<10	170	0.52	0.22	0.04	0.26	25.1	7.5	29

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ZZ49371	1.13	18.5	2.75	4.49	0.05	0.04	0.05	0.032	0.05	9.9	13.3	0.31	382	3.69	<0.01	
ZZ49372	1.55	32.1	3.13	4.64	0.08	0.07	0.09	0.044	0.06	10.4	12.6	0.26	340	7.51	0.01	
ZZ49373	1.53	18.6	3.04	5.91	0.06	0.02	0.05	0.032	0.05	12.4	17.7	0.41	387	2.04	<0.01	
ZZ49374	1.36	26.0	1.68	0.90	0.08	0.04	0.08	0.008	0.20	1.1	0.7	0.01	<5	25.8	0.02	
ZZ49375	1.36	53.1	2.44	1.39	0.05	0.03	0.04	0.045	0.05	3.1	1.7	0.04	265	6.55	<0.01	
ZZ49376	0.43	89.4	3.73	0.99	0.08	0.10	0.27	0.047	0.05	7.0	1.7	0.08	502	11.20	<0.01	
ZZ49377	1.48	122.5	8.67	0.99	0.12	0.08	0.21	0.075	0.06	7.4	1.3	0.29	1080	3.69	<0.01	
ZZ49378	0.88	70.9	3.56	0.73	0.07	0.09	0.33	0.052	0.06	7.9	1.6	0.07	245	7.21	<0.01	
ZZ49379	1.18	99.6	4.42	0.81	0.10	0.16	0.39	0.059	0.08	7.6	1.0	0.06	391	9.78	<0.01	
ZZ49380	1.29	68.0	3.46	0.78	0.08	0.10	0.25	0.050	0.08	12.7	1.7	0.08	345	6.72	<0.01	
ZZ49381	1.95	81.1	4.43	0.84	0.10	0.08	0.39	0.054	0.10	16.1	1.8	0.30	386	8.77	<0.01	
ZZ49382	1.22	37.6	2.27	3.16	0.07	<0.02	0.09	0.031	0.05	8.3	1.7	0.05	122	3.63	<0.01	
ZZ49383	1.17	44.4	3.47	3.81	0.09	<0.02	0.38	0.032	0.04	9.9	2.1	0.06	153	3.82	<0.01	
ZZ49384	1.58	32.4	3.72	3.39	0.10	0.02	0.34	0.032	0.07	13.7	3.5	0.10	252	2.91	<0.01	
ZZ49385	2.44	35.8	1.24	4.66	0.06	<0.02	0.13	0.016	0.08	8.8	1.2	0.03	46	16.45	<0.01	
ZZ49386	2.41	50.0	4.80	1.30	0.16	0.03	0.07	0.050	0.10	17.1	1.0	0.03	85	3.08	<0.01	
ZZ49387	1.41	76.6	8.17	3.71	0.20	0.05	0.11	0.027	0.17	10.1	6.3	0.16	599	31.0	<0.01	
ZZ49388	1.45	41.0	4.13	5.10	0.11	0.03	0.06	0.038	0.09	9.7	17.9	0.35	587	6.22	<0.01	
ZZ49389	1.52	81.4	1.78	4.19	0.08	<0.02	0.07	0.034	0.10	9.3	2.1	0.04	63	28.8	<0.01	
ZZ49390	0.49	14.2	3.74	3.77	0.21	0.10	0.06	0.063	0.13	29.0	11.4	0.27	444	1.11	<0.01	
ZZ49391	0.72	13.0	4.75	4.82	0.29	0.11	0.06	0.073	0.13	44.6	19.1	0.40	764	1.36	<0.01	
ZZ49392	0.48	9.4	3.33	3.40	0.16	0.06	0.06	0.044	0.07	21.0	10.8	0.18	610	0.91	<0.01	
ZZ49393	0.66	13.5	4.36	5.20	0.13	0.04	0.03	0.053	0.16	9.4	5.3	0.15	710	1.46	<0.01	
ZZ49394	0.32	16.6	2.31	2.60	0.13	0.08	0.08	0.029	0.07	21.5	5.6	0.14	379	3.73	0.01	
ZZ49395	0.72	23.3	3.28	2.66	0.14	0.08	0.09	0.038	0.09	20.8	5.1	0.52	467	9.29	<0.01	
ZZ49396	0.96	29.1	2.74	4.01	0.10	0.05	0.04	0.035	0.11	12.2	9.5	0.16	282	12.20	<0.01	
ZZ49397	1.05	35.0	3.11	3.12	0.15	0.09	0.20	0.037	0.09	23.2	7.0	0.18	574	8.10	<0.01	
ZZ49445	2.47	34.8	2.89	3.46	0.10	0.02	0.15	0.029	0.08	11.5	4.3	0.09	249	4.41	<0.01	
ZZ49446	2.28	30.1	3.59	4.39	0.11	0.02	0.12	0.032	0.07	12.7	8.9	0.20	408	4.11	<0.01	
ZZ49447	1.80	33.9	3.98	4.27	0.13	0.03	0.08	0.035	0.07	16.0	17.4	0.33	455	4.21	<0.01	
ZZ49448	2.08	29.1	5.38	5.99	0.16	0.05	0.04	0.042	0.06	17.9	23.4	0.52	1190	3.21	<0.01	
ZZ49449	2.34	23.3	3.15	6.05	0.11	<0.02	0.07	0.026	0.07	17.4	5.5	0.14	206	4.57	0.01	
ZZ49450	1.64	23.1	3.75	4.99	0.11	<0.02	0.07	0.029	0.08	13.1	8.7	0.22	428	4.02	<0.01	
ZZ49451	1.65	33.7	3.98	4.72	0.13	0.03	0.07	0.036	0.10	16.9	13.6	0.34	659	4.92	<0.01	
ZZ49452	3.23	50.5	3.75	3.86	0.16	0.07	1.06	0.038	0.07	18.1	22.0	0.24	535	11.05	0.01	
ZZ49453	2.39	35.6	3.73	5.55	0.15	0.03	0.05	0.035	0.06	20.7	23.5	0.62	469	2.91	0.01	
ZZ49454	2.09	28.0	3.31	5.45	0.10	<0.02	0.04	0.029	0.07	13.1	4.2	0.13	616	3.97	0.01	
ZZ49455	1.62	37.7	3.29	5.17	0.09	<0.02	0.04	0.031	0.08	12.8	4.3	0.12	317	4.21	0.01	
ZZ49456	1.45	26.2	3.95	6.23	0.13	0.04	0.03	0.036	0.06	17.6	23.7	0.53	402	3.35	<0.01	
ZZ49457	1.44	22.8	3.38	5.49	0.11	0.03	0.04	0.032	0.06	12.7	17.1	0.30	266	3.27	<0.01	

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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ49371		0.69	29.0	1150	13.6	9.5	0.001	0.09	1.10	2.7	1.1	0.5	30.3	0.01	0.06	1.1
ZZ49372		0.50	43.7	1470	14.7	11.9	0.001	0.09	1.60	3.2	3.1	0.6	39.5	0.01	0.09	1.0
ZZ49373		0.69	22.7	930	15.6	12.3	<0.001	0.04	0.94	1.9	1.1	0.6	12.3	<0.01	0.05	0.6
ZZ49374		0.06	4.8	80	22.8	13.5	0.006	0.59	2.94	1.0	7.6	0.8	22.6	<0.01	0.14	0.8
ZZ49375		0.10	42.9	800	17.4	8.3	0.002	0.06	2.56	3.9	2.6	0.5	40.6	<0.01	0.08	1.2
ZZ49376		0.07	109.5	1660	14.2	3.1	0.005	0.08	4.20	7.2	3.4	0.5	99.9	0.01	0.09	1.3
ZZ49377		0.10	228	1120	8.0	2.7	0.001	0.25	0.74	18.4	1.3	0.5	114.0	0.01	0.05	2.0
ZZ49378		0.09	42.9	1460	26.0	4.3	0.003	0.08	2.58	6.4	2.1	0.3	41.4	0.01	0.10	2.0
ZZ49379		0.08	60.8	1810	33.1	4.2	0.003	0.09	3.87	8.3	2.9	0.3	45.3	0.01	0.17	3.7
ZZ49380		0.08	41.3	1300	26.4	5.2	0.003	0.07	2.90	6.5	2.9	0.3	24.9	0.01	0.13	2.2
ZZ49381		0.10	52.4	1630	31.3	5.7	0.003	0.20	3.80	7.1	4.5	0.4	36.5	0.01	0.12	3.1
ZZ49382		0.14	23.0	1820	19.7	5.9	0.001	0.08	1.13	0.5	1.4	0.6	8.4	<0.01	0.08	<0.2
ZZ49383		0.15	33.4	1100	16.3	8.3	<0.001	0.02	1.18	0.9	1.2	0.6	8.5	<0.01	0.06	<0.2
ZZ49384		0.17	29.7	2210	14.2	8.7	<0.001	0.05	0.85	1.3	1.0	0.5	11.8	<0.01	0.04	0.2
ZZ49385		0.17	13.6	1100	20.3	9.6	0.001	0.11	2.77	0.4	2.7	1.4	12.9	<0.01	0.12	<0.2
ZZ49386		0.19	36.0	2420	15.3	7.2	0.007	0.06	1.11	4.6	3.0	0.5	18.0	<0.01	0.06	1.4
ZZ49387		0.25	42.6	>10000	18.7	14.4	0.002	0.09	6.54	2.9	5.4	0.5	64.7	0.01	0.11	0.8
ZZ49388		0.28	36.4	2690	25.9	13.0	0.001	0.04	3.04	1.3	2.4	0.6	18.2	<0.01	0.07	0.5
ZZ49389		0.07	21.3	2490	43.8	10.2	0.001	0.15	6.99	0.2	4.8	0.8	38.2	<0.01	0.20	<0.2
ZZ49390		0.44	24.2	1080	13.6	7.3	<0.001	0.06	0.34	4.5	1.3	0.8	38.2	0.01	0.03	2.7
ZZ49391		0.46	36.4	1490	14.2	8.0	0.001	0.06	0.27	6.9	1.5	0.9	45.4	0.01	0.03	5.3
ZZ49392		0.41	14.8	1330	8.8	6.2	<0.001	0.12	0.24	3.7	1.1	0.5	81.7	0.01	0.03	1.4
ZZ49393		0.51	16.5	2290	13.5	12.7	<0.001	0.10	0.38	1.5	0.7	0.8	13.5	0.01	0.04	1.0
ZZ49394		0.32	26.4	1360	13.3	8.8	0.001	0.11	1.91	2.4	1.7	0.3	48.2	0.01	0.04	1.3
ZZ49395		0.30	47.1	810	16.4	9.0	0.001	0.06	5.66	3.6	1.7	0.5	28.8	0.01	0.07	1.9
ZZ49396		0.39	32.2	840	19.4	12.6	0.001	0.04	5.43	2.7	1.8	0.6	14.1	<0.01	0.08	1.4
ZZ49397		0.37	66.2	1170	19.1	11.2	0.002	0.08	5.21	3.1	3.4	0.5	33.3	0.01	0.09	1.1
ZZ49445		0.21	28.5	2160	12.4	13.9	0.001	0.10	1.76	0.9	1.6	0.5	12.4	<0.01	0.05	<0.2
ZZ49446		0.21	28.1	1860	15.8	11.5	0.001	0.08	1.96	0.7	1.7	0.6	11.8	<0.01	0.04	<0.2
ZZ49447		0.29	38.5	1430	17.1	9.2	0.001	0.04	2.07	1.9	1.7	0.5	12.6	<0.01	0.04	0.6
ZZ49448		0.43	34.5	2140	22.6	11.1	<0.001	0.06	0.80	1.8	1.1	0.5	7.8	0.01	0.05	1.0
ZZ49449		0.34	17.0	1370	13.3	12.3	0.001	0.06	0.88	1.1	1.0	0.8	14.1	<0.01	0.04	0.2
ZZ49450		0.26	21.7	2180	13.7	11.0	<0.001	0.11	0.79	0.5	0.9	0.6	8.1	<0.01	0.05	<0.2
ZZ49451		0.22	31.0	2280	17.9	9.9	0.001	0.09	1.94	1.0	1.4	0.6	15.7	0.01	0.05	0.3
ZZ49452		0.23	44.9	1600	16.5	11.0	0.004	0.06	2.01	3.0	2.5	0.5	23.9	0.01	0.07	1.0
ZZ49453		0.65	37.3	1050	16.7	10.0	0.001	0.03	1.16	2.4	1.6	0.6	13.6	0.01	0.05	1.0
ZZ49454		0.17	24.1	1060	13.4	16.0	<0.001	0.05	1.01	0.5	0.8	0.8	6.2	<0.01	0.05	<0.2
ZZ49455		0.18	19.5	1730	12.2	17.1	<0.001	0.08	1.60	0.5	1.1	0.7	6.9	<0.01	0.06	<0.2
ZZ49456		0.55	28.2	1250	14.3	12.8	<0.001	0.03	0.69	2.3	0.9	0.6	11.0	<0.01	0.03	1.2
ZZ49457		0.44	19.5	1270	12.2	14.4	<0.001	0.03	0.94	1.2	0.9	0.6	6.8	<0.01	0.05	0.6

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ49371		0.017	0.21	1.57	69	0.23	8.81	107	1.1
ZZ49372		0.009	0.52	2.29	91	0.26	17.10	169	1.3
ZZ49373		0.022	0.20	1.09	54	0.30	5.76	86	<0.5
ZZ49374		<0.005	11.30	1.23	66	0.10	1.23	4	3.1
ZZ49375		<0.005	0.36	1.02	54	<0.05	7.20	294	0.6
ZZ49376		<0.005	0.12	2.58	123	0.08	24.1	426	2.6
ZZ49377		<0.005	0.12	0.86	52	<0.05	21.4	412	3.0
ZZ49378		<0.005	0.15	1.33	20	<0.05	17.15	170	3.1
ZZ49379		<0.005	0.17	1.63	26	<0.05	19.25	221	7.7
ZZ49380		<0.005	0.15	1.75	17	<0.05	19.20	160	3.2
ZZ49381		<0.005	0.21	1.55	23	0.05	18.60	219	3.4
ZZ49382		<0.005	0.14	1.11	35	0.12	4.03	97	<0.5
ZZ49383		0.005	0.19	0.64	46	0.13	4.28	101	<0.5
ZZ49384		<0.005	0.17	0.82	45	0.09	4.78	85	<0.5
ZZ49385		0.007	0.31	1.89	176	0.17	1.74	90	<0.5
ZZ49386		<0.005	0.13	0.57	19	<0.05	6.35	154	<0.5
ZZ49387		0.005	0.49	8.54	167	0.13	17.90	500	0.9
ZZ49388		0.008	0.32	2.77	117	0.19	7.22	656	0.5
ZZ49389		<0.005	1.41	11.80	274	0.10	11.75	178	<0.5
ZZ49390		<0.005	0.24	0.54	19	0.09	22.1	93	2.3
ZZ49391		<0.005	0.53	0.58	22	0.11	32.6	158	3.7
ZZ49392		<0.005	0.08	0.56	23	0.07	13.35	55	2.4
ZZ49393		0.006	0.12	0.44	34	0.09	5.08	85	0.9
ZZ49394		0.006	0.19	2.18	56	0.09	19.35	139	1.7
ZZ49395		0.005	0.34	2.24	79	0.11	19.85	239	1.7
ZZ49396		0.006	0.42	2.78	272	0.14	9.73	314	1.0
ZZ49397		0.005	0.46	5.61	215	0.13	30.5	675	1.8
ZZ49445		<0.005	0.24	0.96	48	0.08	6.49	126	<0.5
ZZ49446		0.005	0.24	0.93	56	0.08	5.76	116	<0.5
ZZ49447		0.007	0.24	0.81	55	0.13	7.42	148	0.7
ZZ49448		0.009	0.17	0.69	53	0.09	5.70	98	1.0
ZZ49449		0.007	0.32	0.48	75	0.08	2.88	71	<0.5
ZZ49450		0.006	0.17	0.60	52	0.07	2.97	88	<0.5
ZZ49451		0.005	0.19	0.80	54	0.08	7.19	155	0.5
ZZ49452		<0.005	0.32	2.37	45	0.07	17.75	177	1.5
ZZ49453		0.021	0.18	1.19	55	0.20	8.79	122	0.5
ZZ49454		0.007	0.21	0.58	67	0.13	2.81	93	<0.5
ZZ49455		0.005	0.15	0.68	73	0.10	2.90	134	<0.5
ZZ49456		0.010	0.20	0.68	52	0.14	5.41	85	0.9
ZZ49457		0.009	0.19	0.82	53	0.13	3.61	89	0.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ49458		0.23	0.002	0.14	1.18	13.7	<0.2	<10	170	0.35	0.27	0.06	0.28	27.9	7.9	24
ZZ49459		0.20	0.002	0.06	1.79	13.9	<0.2	<10	110	0.61	0.28	0.05	0.52	36.0	14.0	32
ZZ49460		0.18	0.005	0.11	1.41	13.1	<0.2	<10	190	0.63	0.17	0.03	0.48	34.6	14.1	26
ZZ49461		0.19	0.002	0.21	1.25	13.9	<0.2	<10	170	0.54	0.25	0.06	0.56	26.4	10.0	25
ZZ49462		0.21	0.001	0.08	1.65	12.9	<0.2	<10	200	0.54	0.26	0.10	0.59	35.7	12.4	41
ZZ49463		0.16	0.001	0.13	1.45	10.7	<0.2	<10	650	0.57	0.25	1.18	0.82	17.40	6.7	26
ZZ49464		0.21	0.003	0.40	0.87	13.2	<0.2	<10	580	0.70	0.19	1.00	0.88	22.4	9.2	19
ZZ49465		0.19	0.001	0.07	1.64	14.2	<0.2	<10	350	0.70	0.31	0.20	0.27	23.6	8.9	26
ZZ49466		0.17	0.002	0.08	1.61	12.7	<0.2	<10	360	0.74	0.25	0.29	0.10	33.3	11.3	28
ZZ49467		0.24	0.003	0.08	1.89	12.8	<0.2	<10	200	0.73	0.27	0.14	0.14	31.8	9.8	30
ZZ49468		0.17	<0.001	0.15	1.05	16.1	<0.2	<10	240	0.35	0.31	0.12	0.28	20.7	5.5	20
ZZ49469		0.23	0.001	0.33	1.01	16.0	<0.2	<10	510	0.75	0.24	0.52	1.24	21.9	9.9	21
ZZ49470		0.21	0.001	0.35	1.31	16.1	<0.2	<10	730	0.58	0.25	0.79	1.46	20.2	7.4	27
ZZ49471		0.13	0.002	0.17	1.25	15.6	<0.2	<10	2160	0.68	0.29	0.48	0.64	22.6	9.9	26
ZZ49472		0.14	0.003	0.35	1.33	11.8	<0.2	<10	470	0.70	0.25	0.69	0.86	20.1	7.5	26
ZZ49473		0.12	0.001	0.84	1.10	7.7	<0.2	10	800	0.61	0.18	2.45	2.30	12.40	5.3	21
ZZ49474		0.23	0.002	0.33	1.16	11.4	<0.2	<10	600	0.56	0.22	0.80	0.74	17.00	5.6	24
ZZ49475		0.14	0.002	0.10	1.41	14.7	<0.2	<10	500	0.65	0.27	0.80	0.36	22.1	9.2	24
ZZ49476		0.19	0.003	0.26	1.39	17.5	<0.2	<10	400	0.86	0.30	0.69	0.50	27.6	12.3	26
ZZ49477		0.12	0.001	0.08	1.01	27.7	<0.2	<10	310	0.83	0.37	1.12	0.15	16.55	12.0	17
ZZ49478		0.26	0.001	0.21	0.71	37.1	<0.2	<10	1060	0.53	0.21	8.19	2.37	17.55	7.2	12
ZZ49479		0.19	0.002	0.32	1.37	22.7	<0.2	<10	960	0.66	0.27	0.69	0.95	21.4	9.3	28
ZZ49480		0.24	<0.001	0.11	1.25	5.6	<0.2	<10	380	1.30	0.47	0.38	0.17	17.30	15.2	18
ZZ49481		0.21	0.001	0.09	1.82	10.0	<0.2	<10	170	0.60	0.29	0.08	0.24	25.3	6.2	26
ZZ49482		0.20	0.002	0.48	1.58	12.6	<0.2	<10	610	0.94	0.31	0.77	1.03	20.1	8.3	31
ZZ49483		0.21	0.003	0.13	1.71	19.1	<0.2	<10	310	0.77	0.27	0.10	1.09	29.0	12.3	28
ZZ49484		0.21	0.002	0.26	1.34	53.2	<0.2	<10	440	1.25	0.36	0.62	0.66	15.10	13.0	26
ZZ49485		0.14	<0.001	0.32	1.52	10.8	<0.2	<10	300	0.65	0.19	1.25	0.76	36.8	10.8	26
ZZ49486		0.13	0.001	0.13	1.30	13.4	<0.2	<10	160	0.42	0.21	0.17	0.67	28.9	9.5	28
ZZ49487		0.15	<0.001	0.16	1.45	10.7	<0.2	<10	470	0.64	0.23	0.73	0.29	26.0	6.2	23
ZZ49488		0.20	<0.001	0.06	1.86	8.2	<0.2	<10	270	0.57	0.30	0.46	0.14	25.7	7.6	33
ZZ49489		0.11	0.002	0.33	1.74	9.7	<0.2	<10	250	0.65	0.20	0.64	0.35	61.5	14.1	18
ZZ49490		0.17	<0.001	0.13	1.20	10.4	<0.2	<10	160	0.56	0.23	0.09	0.39	43.2	13.6	28
ZZ49491		0.13	<0.001	0.14	0.86	10.7	<0.2	<10	220	0.78	0.33	0.22	0.65	21.9	7.4	20
ZZ49492		0.16	<0.001	0.04	0.73	12.7	<0.2	<10	130	0.31	0.20	0.22	0.14	29.2	11.6	17
ZZ49493		0.16	<0.001	1.85	1.31	11.3	<0.2	<10	500	0.43	0.24	0.14	0.33	13.15	6.6	27
ZZ49494		0.22	0.001	0.15	2.03	17.1	<0.2	<10	470	0.96	0.28	0.12	0.47	19.20	18.2	33
ZZ49495		0.18	0.004	1.53	1.17	16.1	<0.2	<10	2460	0.61	0.23	0.43	1.58	18.25	8.6	40
ZZ49496		0.15	0.009	1.85	1.83	16.9	<0.2	<10	2260	0.78	0.27	1.23	2.41	13.25	8.4	49
ZZ49497		0.10	0.003	0.90	1.32	14.2	<0.2	<10	2050	0.63	0.21	1.99	1.87	11.95	8.7	30



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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ49458		1.33	20.7	3.26	5.77	0.10	<0.02	0.03	0.029	0.06	14.3	10.9	0.24	352	4.61	0.01
ZZ49459		1.41	30.4	4.52	6.59	0.13	0.02	0.04	0.039	0.09	17.5	21.9	0.41	678	3.43	0.01
ZZ49460		1.54	41.7	4.70	5.61	0.14	0.03	0.05	0.041	0.07	17.3	8.1	0.22	514	5.01	<0.01
ZZ49461		1.47	28.7	3.63	5.11	0.11	0.02	0.05	0.033	0.08	12.6	8.2	0.21	581	4.49	0.01
ZZ49462		1.54	16.1	3.62	6.69	0.13	<0.02	0.04	0.034	0.06	14.8	20.1	0.39	968	2.92	0.01
ZZ49463		1.10	13.5	2.71	4.63	0.10	0.03	0.04	0.027	0.05	7.7	42.3	0.37	410	2.35	0.01
ZZ49464		1.48	37.4	2.94	2.97	0.11	0.07	0.09	0.034	0.07	11.3	8.7	0.18	400	5.89	<0.01
ZZ49465		1.64	19.1	3.15	5.65	0.09	0.02	0.05	0.029	0.05	10.4	18.6	0.36	324	2.35	<0.01
ZZ49466		1.35	19.4	2.78	4.99	0.09	0.05	0.05	0.025	0.04	13.8	23.1	0.55	414	1.30	0.01
ZZ49467		1.39	17.2	2.85	5.74	0.10	0.03	0.05	0.028	0.04	13.7	22.5	0.47	335	1.59	<0.01
ZZ49468		1.04	11.3	2.46	5.30	<0.05	<0.02	0.15	0.021	0.08	8.0	8.0	0.13	326	3.24	<0.01
ZZ49469		1.35	25.3	2.40	3.22	<0.05	0.11	0.65	0.023	0.07	10.7	15.3	0.31	245	1.96	<0.01
ZZ49470		1.40	17.1	2.57	3.99	<0.05	0.06	0.27	0.030	0.07	9.1	15.6	0.42	360	2.52	<0.01
ZZ49471		3.35	20.5	2.85	3.69	<0.05	0.06	0.16	0.033	0.08	8.7	16.9	0.37	503	4.55	<0.01
ZZ49472		2.00	19.2	2.69	3.82	<0.05	0.09	0.23	0.029	0.08	10.0	15.7	0.43	303	2.14	<0.01
ZZ49473		0.90	29.4	1.80	2.92	<0.05	0.10	1.07	0.024	0.05	7.3	8.7	0.44	397	1.62	0.01
ZZ49474		0.70	19.4	2.27	3.85	<0.05	0.08	0.22	0.028	0.06	8.7	16.0	0.40	163	2.94	<0.01
ZZ49475		1.06	18.9	3.01	4.00	<0.05	0.07	0.07	0.032	0.07	8.4	14.6	0.47	552	3.15	0.01
ZZ49476		1.90	31.0	3.23	4.02	0.05	0.08	0.25	0.036	0.09	13.3	17.9	0.54	628	2.00	0.01
ZZ49477		0.90	34.2	3.82	2.71	<0.05	0.10	0.60	0.049	0.07	9.1	7.7	0.55	972	0.91	0.01
ZZ49478		2.87	19.1	3.19	2.27	<0.05	0.05	2.36	0.028	0.05	8.9	7.8	4.54	1320	2.11	0.01
ZZ49479		3.92	23.7	3.02	3.77	<0.05	0.08	0.65	0.034	0.08	11.5	17.0	0.49	577	2.22	0.01
ZZ49480		1.57	41.9	3.10	3.54	<0.05	0.09	0.20	0.025	0.11	7.5	27.2	0.32	766	0.95	<0.01
ZZ49481		1.57	12.2	2.57	6.15	<0.05	<0.02	0.04	0.024	0.05	12.5	15.4	0.35	274	1.54	<0.01
ZZ49482		3.23	41.3	3.02	4.83	0.06	0.10	0.44	0.034	0.07	14.2	18.4	0.43	508	2.08	0.01
ZZ49483		1.20	24.4	3.11	4.41	0.05	0.03	0.04	0.039	0.07	13.4	17.0	0.36	534	6.49	<0.01
ZZ49484		3.14	37.2	3.49	4.37	0.05	0.10	0.94	0.032	0.08	8.2	23.0	0.47	658	1.56	0.01
ZZ49485		1.37	34.5	3.77	4.52	0.07	0.08	0.11	0.039	0.08	19.7	23.5	0.63	313	2.52	0.01
ZZ49486		1.10	24.9	4.28	6.41	<0.05	0.02	0.03	0.036	0.11	15.1	11.1	0.34	358	4.07	0.01
ZZ49487		1.39	17.8	3.18	4.78	0.05	0.05	0.07	0.033	0.07	12.5	15.5	0.33	252	4.72	0.01
ZZ49488		2.37	12.6	2.96	7.39	<0.05	<0.02	0.02	0.031	0.08	13.6	20.7	0.42	520	2.20	0.01
ZZ49489		2.01	39.5	4.34	6.11	0.07	0.04	0.05	0.047	0.10	34.1	22.6	0.46	527	2.90	0.01
ZZ49490		1.68	27.6	4.16	5.03	0.05	<0.02	0.03	0.040	0.10	20.6	8.5	0.20	641	2.71	0.01
ZZ49491		1.31	24.7	2.69	2.91	<0.05	0.03	0.06	0.032	0.11	9.7	7.3	0.13	250	2.12	<0.01
ZZ49492		1.32	24.2	3.11	4.59	<0.05	<0.02	0.03	0.025	0.09	15.9	4.7	0.11	346	3.02	<0.01
ZZ49493		1.02	21.7	2.89	4.14	<0.05	<0.02	0.06	0.033	0.06	6.4	11.9	0.23	270	3.72	0.01
ZZ49494		1.45	38.7	4.42	4.63	0.05	0.06	0.06	0.043	0.07	7.8	31.3	0.59	743	1.99	0.01
ZZ49495		1.32	39.5	2.96	3.09	0.05	<0.02	0.14	0.036	0.09	9.8	11.9	0.30	369	5.99	<0.01
ZZ49496		1.76	53.3	3.12	4.43	0.05	0.07	0.64	0.036	0.11	8.4	15.3	0.36	352	6.34	<0.01
ZZ49497		0.91	44.7	2.56	3.43	<0.05	0.07	0.36	0.036	0.07	6.6	13.9	0.31	433	2.95	<0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ49458		0.68	22.1	1490	15.5	14.9	<0.001	0.02	1.11	1.9	1.2	0.7	13.1	<0.01	0.06	0.7
ZZ49459		0.44	27.1	1280	18.8	16.3	<0.001	0.02	1.20	1.2	1.1	0.7	9.2	<0.01	0.07	0.3
ZZ49460		0.22	32.0	2930	17.8	12.8	0.001	0.06	1.58	1.1	1.3	0.6	8.7	<0.01	0.05	0.4
ZZ49461		0.20	24.7	2050	15.9	14.8	0.001	0.09	1.57	0.5	1.4	0.6	12.6	<0.01	0.07	<0.2
ZZ49462		0.41	26.4	1070	15.3	12.9	<0.001	0.04	0.88	0.9	1.0	0.7	10.9	<0.01	0.05	0.2
ZZ49463		0.74	17.9	1410	12.5	11.7	0.001	0.12	0.69	1.9	3.0	0.5	48.4	0.01	0.05	0.7
ZZ49464		0.27	27.8	1850	14.1	11.7	0.003	0.12	1.92	2.6	2.2	0.4	44.7	0.01	0.06	0.8
ZZ49465		0.51	21.2	880	17.0	13.2	<0.001	0.03	0.72	1.8	0.7	0.6	13.1	<0.01	0.04	0.6
ZZ49466		1.06	25.9	400	14.5	9.9	<0.001	<0.01	0.70	3.4	0.6	0.5	16.6	<0.01	0.04	3.0
ZZ49467		1.03	23.5	690	15.1	9.0	<0.001	0.01	0.77	2.6	0.9	0.6	11.1	0.01	0.05	1.3
ZZ49468		0.28	13.5	950	16.3	16.2	0.001	0.06	0.90	0.4	0.9	0.8	9.0	<0.01	0.04	<0.2
ZZ49469		0.43	27.5	920	21.2	11.1	0.002	0.06	1.02	4.6	1.4	0.5	29.3	<0.01	0.04	2.4
ZZ49470		0.60	23.3	1430	15.4	16.0	0.001	0.10	0.93	2.6	1.5	0.6	27.3	<0.01	0.04	1.1
ZZ49471		0.55	25.7	1020	19.3	15.1	0.001	0.11	1.41	3.2	1.2	0.6	28.1	<0.01	0.05	1.2
ZZ49472		0.57	24.0	1370	14.9	18.1	0.001	0.08	0.89	3.6	1.5	0.6	24.8	<0.01	0.02	1.5
ZZ49473		0.42	21.3	2850	12.3	7.0	0.003	0.31	1.01	2.0	2.6	0.6	48.1	0.01	0.01	0.6
ZZ49474		0.51	21.8	1070	12.4	9.4	0.001	0.09	1.08	2.8	1.5	0.6	26.3	<0.01	0.04	1.2
ZZ49475		0.55	24.3	1470	16.7	11.2	0.002	0.09	1.14	2.6	0.7	0.6	19.2	0.01	0.05	1.1
ZZ49476		0.49	32.4	940	19.8	18.0	0.001	0.07	0.96	4.1	1.0	0.6	19.1	<0.01	0.06	1.3
ZZ49477		0.26	25.9	850	35.3	7.1	0.001	0.05	0.66	6.4	0.4	0.8	16.0	<0.01	0.05	1.8
ZZ49478		0.30	21.1	780	78.9	9.9	0.001	0.05	2.22	3.6	0.8	0.5	48.7	<0.01	0.06	1.1
ZZ49479		0.55	26.5	1250	21.5	19.4	0.001	0.09	1.18	3.8	0.8	0.6	21.7	<0.01	0.04	1.2
ZZ49480		0.24	31.0	190	43.4	10.7	<0.001	0.01	0.61	4.0	0.4	0.6	24.0	<0.01	0.04	4.8
ZZ49481		0.52	15.9	630	12.6	10.7	0.001	0.02	0.66	1.0	0.4	0.7	9.5	<0.01	0.03	0.2
ZZ49482		0.58	26.8	1550	18.1	12.1	0.001	0.08	0.90	5.1	1.4	0.8	36.9	0.01	0.05	1.3
ZZ49483		0.57	43.2	900	16.0	11.9	0.001	0.04	1.79	2.6	1.2	0.5	20.5	<0.01	0.07	1.1
ZZ49484		0.38	30.5	820	33.7	11.2	0.002	0.05	1.06	5.0	1.0	0.6	30.7	<0.01	0.05	2.2
ZZ49485		0.45	38.1	1950	12.7	13.3	0.003	0.12	0.84	3.7	1.8	0.4	61.7	<0.01	0.03	1.1
ZZ49486		0.30	29.0	1740	15.7	15.9	0.001	0.08	0.96	0.5	0.5	0.6	13.2	<0.01	0.05	0.2
ZZ49487		0.49	18.8	1480	10.3	13.4	0.004	0.06	0.82	2.1	1.7	0.6	39.6	<0.01	0.04	0.7
ZZ49488		0.33	17.7	1290	10.8	17.2	0.001	0.05	0.56	0.7	0.3	0.9	35.8	<0.01	0.02	0.2
ZZ49489		0.36	23.0	2300	18.9	13.6	0.001	0.07	1.02	2.1	1.2	0.9	36.9	<0.01	0.04	1.0
ZZ49490		0.23	31.4	1990	16.5	11.9	0.001	0.09	0.97	0.7	0.8	0.7	19.7	<0.01	0.05	0.2
ZZ49491		0.25	21.3	1300	13.6	12.1	0.001	0.05	0.77	1.6	0.5	0.5	16.1	<0.01	0.05	0.6
ZZ49492		0.31	23.9	930	9.9	13.7	0.001	0.04	0.88	0.7	0.2	0.7	12.2	<0.01	0.03	<0.2
ZZ49493		0.32	17.8	2720	11.7	7.5	0.001	0.17	1.36	0.8	3.3	0.6	44.4	<0.01	0.09	0.2
ZZ49494		0.28	36.0	1150	18.6	11.1	0.001	0.03	0.73	4.7	1.0	0.5	16.9	<0.01	0.07	2.1
ZZ49495		0.31	51.2	2200	12.5	8.3	0.002	0.11	2.11	3.3	3.8	0.6	91.5	<0.01	0.12	0.7
ZZ49496		0.44	65.4	2290	13.8	11.7	0.004	0.13	1.98	4.1	4.2	0.7	65.4	<0.01	0.12	0.9
ZZ49497		0.41	46.3	1860	11.3	8.0	0.003	0.13	1.43	3.6	3.4	0.5	53.5	<0.01	0.14	0.8

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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ49458		0.022	0.26	0.93	69	0.21	3.24	102	<0.5
ZZ49459		0.017	0.16	0.81	65	0.17	4.41	132	<0.5
ZZ49460		0.005	0.27	0.93	67	0.05	5.55	137	0.6
ZZ49461		0.006	0.29	1.26	70	0.13	5.04	121	<0.5
ZZ49462		0.018	0.21	1.05	66	0.19	6.17	106	<0.5
ZZ49463		0.020	0.13	1.96	54	0.15	4.26	149	0.8
ZZ49464		0.006	0.23	1.67	54	0.07	10.90	108	1.8
ZZ49465		0.013	0.23	1.00	55	0.19	5.64	91	<0.5
ZZ49466		0.027	0.15	1.26	48	0.27	4.97	84	1.4
ZZ49467		0.028	0.17	1.09	50	0.31	5.37	67	0.5
ZZ49468		0.009	0.15	1.35	55	0.14	3.30	70	<0.5
ZZ49469		0.011	0.29	1.85	50	0.08	12.35	176	3.0
ZZ49470		0.019	0.25	2.93	61	0.13	8.85	182	1.6
ZZ49471		0.015	0.41	1.22	70	0.14	8.31	158	1.6
ZZ49472		0.018	0.25	1.83	55	0.11	10.70	215	2.3
ZZ49473		0.010	0.18	4.58	38	0.09	12.85	110	2.8
ZZ49474		0.014	0.29	1.94	65	0.11	7.95	106	2.1
ZZ49475		0.014	0.26	1.50	58	0.20	6.67	114	1.7
ZZ49476		0.011	0.16	2.76	40	0.10	11.80	146	2.1
ZZ49477		<0.005	0.28	0.96	29	0.14	10.10	58	2.4
ZZ49478		0.007	0.43	1.43	35	0.11	11.45	1090	1.4
ZZ49479		0.016	0.37	2.72	54	0.12	13.05	234	1.9
ZZ49480		0.005	0.10	1.84	20	<0.05	9.03	72	2.9
ZZ49481		0.014	0.18	0.81	52	0.22	3.60	63	<0.5
ZZ49482		0.015	0.15	6.47	50	0.20	23.4	157	2.8
ZZ49483		0.012	0.34	2.03	85	0.21	8.86	166	0.8
ZZ49484		0.007	0.23	2.86	32	0.10	14.90	259	2.7
ZZ49485		0.011	0.15	1.10	44	0.10	12.75	156	1.9
ZZ49486		0.007	0.12	0.63	55	0.08	2.46	125	<0.5
ZZ49487		0.010	0.17	1.63	57	0.12	5.57	113	1.0
ZZ49488		0.009	0.20	0.69	70	0.14	3.55	79	<0.5
ZZ49489		0.006	0.16	0.73	55	0.06	12.40	118	0.9
ZZ49490		0.006	0.16	0.67	60	0.08	5.16	97	<0.5
ZZ49491		<0.005	0.12	0.82	33	0.06	6.37	105	0.6
ZZ49492		0.006	0.11	0.38	56	0.12	2.80	86	<0.5
ZZ49493		0.006	0.23	1.53	60	0.12	5.67	57	<0.5
ZZ49494		<0.005	0.17	0.98	61	0.09	7.26	133	1.7
ZZ49495		0.011	0.31	3.20	81	0.17	17.90	224	<0.5
ZZ49496		0.006	0.51	8.62	93	0.14	24.5	289	1.9
ZZ49497		0.005	0.21	7.08	60	0.09	20.9	168	2.3



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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ49498		0.10	0.003	1.29	0.97	12.6	<0.2	<10	2760	0.50	0.18	2.16	1.53	10.55	7.2	27
ZZ49499		0.21	0.003	0.80	1.45	15.4	<0.2	<10	2990	0.70	0.22	1.42	1.21	14.20	9.8	31
ZZ49500		0.19	0.002	1.02	1.20	19.5	<0.2	<10	1780	0.71	0.23	0.51	2.97	13.25	14.7	24
ZZ50291		0.13	0.002	0.85	1.05	20.2	<0.2	<10	1340	0.54	0.19	0.77	1.57	11.60	9.1	27
ZZ50292		0.16	<0.001	0.39	1.27	16.0	<0.2	<10	1270	0.60	0.24	0.45	0.57	12.60	8.2	27
ZZ50293		0.19	0.001	0.12	1.32	12.7	<0.2	<10	1250	0.36	0.26	0.33	0.36	13.80	6.4	23
ZZ50294		0.14	0.001	0.55	1.29	14.2	<0.2	<10	1530	0.76	0.23	0.84	1.10	13.15	9.2	25
ZZ50295		0.20	0.003	0.18	1.13	11.6	<0.2	<10	610	0.93	0.27	0.15	1.05	12.35	15.8	18
ZZ50296		0.13	0.001	0.10	2.14	13.7	<0.2	<10	790	1.09	0.20	0.82	13.45	27.7	30.3	34
ZZ50297		0.16	0.003	0.19	0.75	10.1	<0.2	<10	560	0.45	0.31	0.44	1.02	5.56	6.9	15
ZZ50298		0.12	0.004	0.10	1.15	11.7	<0.2	<10	560	0.63	0.25	0.25	4.11	15.50	22.4	27
ZZ50299		0.23	0.002	0.20	1.51	17.3	<0.2	<10	500	0.66	0.25	0.81	1.13	13.90	14.0	26
ZZ50300		0.21	0.001	0.14	1.70	13.2	<0.2	<10	700	0.77	0.27	0.38	0.26	20.4	14.0	28
ZZ50301		0.21	0.002	1.67	1.13	13.8	<0.2	<10	1090	1.04	0.28	0.91	2.33	9.12	11.3	26
ZZ50302		0.16	0.001	0.17	1.82	16.3	<0.2	<10	310	0.70	0.29	0.19	0.19	21.8	8.5	27
ZZ50303		0.18	0.001	0.30	1.28	16.5	<0.2	<10	650	0.83	0.22	1.93	0.78	15.05	12.1	24
ZZ50304		0.11	0.003	0.29	1.29	14.9	<0.2	<10	730	0.82	0.22	1.86	0.71	13.40	9.9	23
ZZ50305		0.16	0.002	0.63	1.49	12.8	<0.2	<10	2190	0.66	0.24	0.74	0.75	16.90	13.5	29
ZZ50306		0.22	0.002	1.37	0.87	17.3	<0.2	<10	2080	0.79	0.24	1.05	2.36	16.75	11.7	25
ZZ50307		0.14	0.004	0.36	0.65	5.9	<0.2	<10	1300	0.39	0.12	3.91	1.06	7.39	4.4	11
ZZ50308		0.11	0.001	0.56	0.95	11.9	<0.2	<10	1260	0.78	0.23	2.92	3.24	15.00	12.7	22
ZZ50309		0.19	0.001	0.69	1.14	12.8	<0.2	<10	1510	0.99	0.22	2.15	1.33	13.90	9.1	25
ZZ50310		0.13	0.002	0.52	0.99	12.1	<0.2	<10	1660	0.89	0.25	2.15	1.32	12.15	9.9	27
ZZ50311		0.11	<0.001	0.29	0.56	7.1	<0.2	10	1210	0.73	0.18	3.70	1.02	4.92	4.4	15
ZZ50312		0.21	0.001	0.20	1.20	11.4	<0.2	<10	560	0.93	0.39	0.96	0.58	11.10	11.3	24
ZZ50313		0.22	<0.001	0.20	1.21	13.2	<0.2	<10	660	0.99	0.32	1.19	0.65	10.30	11.7	27
ZZ50314		0.22	0.001	0.34	1.29	14.0	<0.2	<10	780	1.05	0.33	1.21	0.61	11.75	8.5	28
ZZ50315		0.23	0.001	0.25	1.25	12.6	<0.2	<10	520	1.01	0.34	1.13	0.70	11.00	10.4	25
ZZ50316		0.20	0.002	0.27	1.27	15.8	<0.2	<10	820	1.01	0.33	1.14	0.98	11.10	14.3	26
ZZ50317		0.23	0.002	0.30	1.31	13.7	<0.2	<10	790	0.94	0.32	1.11	0.60	10.90	10.1	26
ZZ50318		0.21	0.001	0.33	1.43	13.5	<0.2	<10	530	1.05	0.32	1.11	0.45	13.35	8.0	26
ZZ50319		0.18	0.001	0.41	1.32	14.7	<0.2	<10	930	0.99	0.30	1.49	0.72	12.25	10.1	24
ZZ50320		0.17	0.002	0.38	1.33	13.6	<0.2	<10	1040	0.97	0.29	1.38	0.78	11.95	8.7	24
ZZ50321		0.18	0.002	0.28	1.37	16.4	<0.2	<10	680	0.92	0.27	1.07	0.69	14.25	12.0	24
ZZ50322		0.18	0.003	0.32	1.39	19.1	<0.2	<10	590	0.84	0.27	1.13	0.54	14.05	10.8	24
ZZ50323		0.13	<0.001	0.24	1.47	25.2	<0.2	<10	430	0.85	0.27	1.15	0.36	14.20	12.7	25
ZZ50324		0.13	0.003	0.37	1.41	20.6	<0.2	<10	620	0.92	0.30	1.50	0.62	13.20	11.5	24
ZZ50325		0.21	0.003	0.28	1.47	26.6	<0.2	<10	340	0.84	0.27	1.20	0.49	14.30	11.4	25
ZZ50326		0.21	0.001	0.17	1.12	13.9	<0.2	10	310	0.81	0.25	1.05	0.37	8.39	21.1	20
ZZ50327		0.24	0.001	0.18	1.23	17.8	<0.2	<10	240	0.90	0.28	0.79	0.32	10.90	13.6	22

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ49498		0.57	34.1	2.28	2.28	0.05	0.05	0.47	0.029	0.05	8.0	8.6	0.26	262	4.94	<0.01
ZZ49499		0.60	37.3	3.16	3.44	0.05	0.06	0.36	0.032	0.07	9.4	14.4	0.40	454	4.12	<0.01
ZZ49500		0.80	50.3	3.35	3.24	0.05	0.05	0.64	0.037	0.09	6.3	17.0	0.39	511	6.13	<0.01
ZZ50291		1.00	34.1	2.87	2.76	<0.05	0.05	0.17	0.031	0.06	6.2	11.5	0.27	337	5.37	0.01
ZZ50292		1.42	27.1	2.98	3.42	<0.05	0.07	0.13	0.028	0.06	6.4	12.8	0.29	271	5.35	0.01
ZZ50293		1.23	15.5	2.65	5.20	<0.05	<0.02	0.06	0.024	0.05	6.3	11.1	0.23	427	3.58	0.01
ZZ50294		0.75	32.0	2.98	3.44	<0.05	0.07	0.22	0.036	0.07	7.5	14.2	0.34	327	4.06	<0.01
ZZ50295		2.29	32.9	4.00	2.53	<0.05	0.04	0.05	0.042	0.07	6.1	9.3	0.19	736	2.61	0.01
ZZ50296		0.83	19.0	5.37	3.39	0.07	0.03	0.06	0.048	0.03	14.2	10.0	0.10	1170	4.52	0.01
ZZ50297		1.20	14.5	3.01	2.10	<0.05	0.06	0.11	0.038	0.06	3.2	2.9	0.05	205	2.77	0.01
ZZ50298		0.89	21.0	3.47	3.28	<0.05	0.04	0.17	0.045	0.08	8.1	12.1	0.25	861	3.74	0.01
ZZ50299		0.79	30.0	3.49	3.97	<0.05	0.06	0.11	0.036	0.07	6.4	29.0	0.50	576	1.51	0.01
ZZ50300		1.45	28.5	3.17	5.15	<0.05	0.04	0.07	0.033	0.06	8.9	24.6	0.49	677	1.62	<0.01
ZZ50301		1.34	38.1	2.91	3.20	<0.05	0.05	0.16	0.050	0.07	6.0	11.4	0.21	265	5.46	0.01
ZZ50302		1.61	20.5	3.38	6.05	<0.05	0.04	0.04	0.039	0.06	9.1	28.8	0.42	290	1.66	<0.01
ZZ50303		0.66	43.3	2.93	3.78	<0.05	0.05	0.17	0.038	0.07	7.9	18.4	0.45	589	2.35	0.01
ZZ50304		0.65	38.3	2.87	3.86	<0.05	0.06	0.16	0.036	0.07	7.8	18.1	0.43	304	2.44	0.01
ZZ50305		0.80	21.3	3.27	4.90	<0.05	0.06	0.13	0.039	0.06	7.7	24.6	0.49	344	5.26	<0.01
ZZ50306		0.62	28.1	2.84	2.95	0.06	0.04	0.13	0.042	0.07	8.4	11.7	0.27	641	11.65	<0.01
ZZ50307		0.37	18.4	1.14	1.94	<0.05	0.03	0.11	0.017	0.02	5.4	5.1	0.12	319	1.30	<0.01
ZZ50308		0.72	25.6	2.24	3.11	<0.05	0.04	0.14	0.033	0.05	11.7	9.6	0.23	576	11.10	0.01
ZZ50309		0.72	29.9	2.31	3.52	<0.05	0.04	0.11	0.031	0.05	10.3	12.0	0.30	403	3.91	<0.01
ZZ50310		0.49	29.5	2.44	2.76	<0.05	0.04	0.12	0.033	0.06	7.8	9.2	0.22	362	4.02	0.01
ZZ50311		0.41	59.2	1.23	1.49	<0.05	0.06	0.13	0.022	0.05	3.6	3.2	0.10	208	2.79	0.01
ZZ50312		1.42	28.1	3.16	3.40	<0.05	0.05	0.09	0.038	0.07	5.4	15.0	0.28	547	2.79	<0.01
ZZ50313		0.94	30.7	3.29	3.11	<0.05	0.05	0.08	0.036	0.07	4.9	12.5	0.28	693	3.77	0.01
ZZ50314		1.05	36.5	3.02	3.35	<0.05	0.05	0.14	0.043	0.08	6.2	12.7	0.29	351	3.59	0.01
ZZ50315		1.06	31.4	3.16	3.44	<0.05	0.05	0.08	0.040	0.08	4.9	14.0	0.31	508	3.17	<0.01
ZZ50316		0.91	34.1	3.60	3.38	<0.05	0.05	0.10	0.042	0.08	5.0	16.0	0.31	1100	3.94	0.01
ZZ50317		0.95	41.4	3.39	3.34	<0.05	0.07	0.11	0.041	0.09	5.8	16.2	0.34	504	3.22	0.01
ZZ50318		0.91	37.3	3.27	3.68	<0.05	0.06	0.12	0.037	0.09	6.3	20.6	0.37	236	3.56	0.01
ZZ50319		0.93	45.9	3.09	3.44	<0.05	0.06	0.14	0.035	0.09	6.3	16.2	0.35	475	4.67	0.01
ZZ50320		0.83	42.5	2.83	3.32	<0.05	0.06	0.16	0.038	0.07	5.7	15.4	0.35	316	4.73	0.01
ZZ50321		0.69	36.4	3.56	3.58	<0.05	0.06	0.11	0.032	0.08	6.6	20.6	0.44	554	4.61	0.01
ZZ50322		0.89	37.4	3.32	3.65	<0.05	0.06	0.16	0.035	0.08	6.6	21.9	0.43	457	3.64	0.01
ZZ50323		0.82	28.9	3.50	3.91	<0.05	0.05	0.15	0.033	0.09	6.1	25.0	0.48	461	2.65	0.01
ZZ50324		0.77	36.8	3.24	3.73	<0.05	0.06	0.15	0.034	0.09	6.3	21.2	0.43	558	3.25	0.01
ZZ50325		0.94	40.9	3.51	3.82	<0.05	0.06	0.26	0.036	0.10	7.3	25.2	0.51	480	1.83	<0.01
ZZ50326		0.98	32.0	4.04	3.01	<0.05	0.05	0.13	0.034	0.11	3.6	20.0	0.42	3920	1.20	0.01
ZZ50327		0.93	33.7	3.75	3.39	0.05	0.06	0.11	0.039	0.09	4.6	21.9	0.44	357	1.44	0.01

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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ49498		0.35	54.4	1680	8.8	4.8	0.002	0.13	1.29	3.0	2.8	0.3	60.7	<0.01	0.14	0.5
ZZ49499		0.41	52.1	1590	12.2	6.1	0.002	0.11	1.14	4.1	2.2	0.5	41.1	<0.01	0.10	0.9
ZZ49500		0.19	53.9	1240	15.1	6.1	0.003	0.07	1.75	5.2	2.2	0.5	37.6	<0.01	0.09	1.5
ZZ50291		0.27	59.3	1410	11.9	7.2	0.003	0.07	1.22	3.1	2.7	0.4	34.6	<0.01	0.09	0.7
ZZ50292		0.33	45.7	1540	11.9	10.5	0.003	0.07	1.18	3.2	2.6	0.5	27.0	<0.01	0.09	0.8
ZZ50293		0.51	24.8	800	12.3	7.7	0.002	0.04	0.76	1.5	0.8	0.7	18.0	<0.01	0.09	0.4
ZZ50294		0.31	47.5	1310	12.5	6.5	0.002	0.07	1.07	3.6	1.9	0.5	31.1	<0.01	0.06	1.0
ZZ50295		0.19	59.0	990	15.8	11.1	0.001	0.06	0.64	6.2	0.9	0.4	28.9	<0.01	0.06	1.8
ZZ50296		0.62	114.5	1740	12.9	5.3	0.001	0.08	1.62	3.4	4.3	0.5	33.1	0.01	0.13	1.1
ZZ50297		0.15	36.1	1220	19.2	8.3	0.001	0.07	0.61	3.1	1.2	0.5	33.7	<0.01	0.07	0.9
ZZ50298		0.43	73.5	1230	16.1	10.7	0.001	0.04	1.14	4.8	1.4	0.6	28.8	<0.01	0.09	1.5
ZZ50299		0.32	39.7	790	15.7	8.9	0.001	0.04	0.58	5.5	0.9	0.4	29.3	<0.01	0.06	1.5
ZZ50300		0.44	33.9	810	16.4	10.6	0.001	0.02	0.56	5.0	0.4	0.6	20.3	<0.01	0.04	2.0
ZZ50301		0.10	55.8	1880	16.4	9.8	0.003	0.08	1.75	5.8	4.4	0.6	66.0	<0.01	0.10	1.7
ZZ50302		0.48	21.7	600	16.0	12.4	<0.001	0.02	0.49	3.3	0.9	0.6	12.3	<0.01	0.05	1.9
ZZ50303		0.32	32.2	1010	14.3	7.8	0.001	0.10	0.77	3.5	2.4	0.5	43.4	<0.01	0.07	0.7
ZZ50304		0.33	30.9	1030	13.9	8.0	0.004	0.12	0.73	3.7	2.7	0.4	33.3	<0.01	0.07	0.8
ZZ50305		0.42	41.8	1520	13.7	8.2	0.002	0.07	1.14	4.1	2.2	0.7	54.2	<0.01	0.09	1.8
ZZ50306		0.19	48.8	2000	17.3	7.0	0.001	0.10	2.96	4.9	4.1	0.6	63.2	<0.01	0.09	1.6
ZZ50307		0.34	14.9	1160	6.6	3.4	0.001	0.15	0.61	1.1	1.7	0.3	42.3	<0.01	0.04	0.2
ZZ50308		0.48	57.5	1730	13.8	6.5	0.002	0.13	1.19	2.5	2.8	0.5	39.1	<0.01	0.09	0.5
ZZ50309		0.42	35.7	1230	12.5	6.7	0.002	0.10	1.32	3.0	3.0	0.5	41.3	<0.01	0.07	0.7
ZZ50310		0.40	32.6	1170	13.3	5.9	0.002	0.10	1.10	3.0	2.8	0.5	42.5	<0.01	0.06	0.7
ZZ50311		0.21	23.1	970	9.0	4.5	0.001	0.18	1.48	1.6	2.9	0.4	39.9	<0.01	0.05	0.3
ZZ50312		0.41	26.2	630	18.9	7.1	<0.001	0.03	0.59	4.6	0.8	0.5	25.1	<0.01	0.06	1.6
ZZ50313		0.37	25.5	720	17.0	7.7	0.001	0.05	0.69	4.1	1.3	0.6	33.0	<0.01	0.05	1.2
ZZ50314		0.44	26.7	870	17.1	9.3	<0.001	0.07	0.74	4.6	2.2	0.6	38.1	<0.01	0.06	1.1
ZZ50315		0.40	25.7	710	17.6	7.5	0.001	0.05	0.73	4.6	1.3	0.7	36.1	<0.01	0.06	1.5
ZZ50316		0.37	31.5	760	19.1	8.3	0.005	0.10	0.74	4.8	2.0	0.6	36.4	<0.01	0.06	1.6
ZZ50317		0.36	30.3	820	16.6	7.8	<0.001	0.06	0.81	4.7	1.6	0.6	32.5	<0.01	0.08	1.5
ZZ50318		0.41	28.9	770	17.0	8.3	0.004	0.07	0.73	4.9	1.9	0.6	37.1	<0.01	0.06	1.6
ZZ50319		0.39	32.9	880	15.4	7.9	0.003	0.08	1.15	4.4	2.6	0.5	43.0	<0.01	0.06	1.1
ZZ50320		0.40	30.8	870	15.8	8.1	0.009	0.11	1.15	4.0	3.3	0.5	35.6	<0.01	0.06	1.3
ZZ50321		0.35	31.6	860	15.8	6.8	0.004	0.06	0.90	4.4	2.0	0.5	29.3	<0.01	0.05	1.7
ZZ50322		0.36	31.7	830	14.9	8.2	0.006	0.06	0.86	4.5	2.2	0.5	33.1	<0.01	0.06	1.7
ZZ50323		0.38	28.3	820	15.8	8.3	0.002	0.05	0.62	4.7	1.3	0.5	36.0	<0.01	0.04	1.8
ZZ50324		0.40	29.2	880	16.0	8.3	0.002	0.08	0.84	4.5	2.3	0.5	43.6	<0.01	0.06	1.3
ZZ50325		0.35	33.0	810	14.9	9.4	0.002	0.05	0.63	5.3	1.8	0.5	41.5	<0.01	0.06	1.8
ZZ50326		0.21	45.3	830	13.8	11.0	0.002	0.19	0.44	4.7	1.7	0.4	81.3	<0.01	0.04	2.4
ZZ50327		0.26	35.7	870	17.3	8.8	0.006	0.08	0.47	5.6	1.3	0.5	46.0	<0.01	0.04	2.7

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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ49498		0.009	0.17	2.41	49	0.11	23.0	233	1.5
ZZ49499		0.009	0.15	2.50	62	0.14	23.6	207	1.7
ZZ49500		<0.005	0.63	1.54	87	0.08	14.55	216	1.8
ZZ50291		0.006	0.30	2.77	67	0.10	18.05	286	1.5
ZZ50292		0.006	0.43	2.56	75	0.11	12.65	215	1.5
ZZ50293		0.010	0.30	0.97	73	0.14	4.40	110	<0.5
ZZ50294		0.006	0.27	4.66	63	0.09	15.95	215	2.0
ZZ50295		<0.005	0.18	1.38	37	0.06	14.85	199	1.1
ZZ50296		0.012	0.42	3.25	96	0.13	26.8	843	0.9
ZZ50297		<0.005	0.55	0.84	40	0.05	6.10	212	1.6
ZZ50298		0.006	0.38	1.43	64	0.10	12.30	451	1.2
ZZ50299		0.005	0.16	1.47	41	0.05	10.10	155	1.7
ZZ50300		0.007	0.17	0.99	48	0.14	8.33	96	1.0
ZZ50301		<0.005	0.36	4.04	59	0.09	18.80	222	1.6
ZZ50302		0.008	0.20	0.78	53	0.15	3.68	77	1.1
ZZ50303		0.006	0.12	2.01	41	0.15	13.20	133	1.4
ZZ50304		0.005	0.12	2.27	42	0.07	13.70	128	1.6
ZZ50305		0.009	0.15	2.15	69	0.15	8.15	218	1.4
ZZ50306		<0.005	0.27	2.84	108	0.13	18.40	258	1.5
ZZ50307		0.008	0.08	3.31	28	0.05	11.35	56	1.2
ZZ50308		0.009	0.18	5.70	57	0.12	27.0	303	1.3
ZZ50309		0.007	0.25	2.94	64	0.11	19.80	159	1.2
ZZ50310		<0.005	0.17	4.17	56	0.07	17.95	171	1.2
ZZ50311		<0.005	0.15	9.62	23	<0.05	10.20	84	1.7
ZZ50312		0.005	0.17	2.02	33	0.07	8.13	130	1.1
ZZ50313		<0.005	0.16	1.91	42	0.07	8.14	154	1.1
ZZ50314		<0.005	0.17	2.52	45	0.09	11.80	139	1.3
ZZ50315		<0.005	0.18	1.87	40	0.09	7.76	142	1.2
ZZ50316		<0.005	0.17	1.90	45	0.06	8.89	147	1.3
ZZ50317		<0.005	0.17	2.82	44	0.07	10.40	144	1.4
ZZ50318		<0.005	0.17	2.33	47	0.07	10.10	130	1.5
ZZ50319		<0.005	0.18	2.75	48	0.08	11.95	139	1.5
ZZ50320		<0.005	0.19	2.80	54	0.10	10.85	137	1.6
ZZ50321		<0.005	0.13	1.97	50	0.07	10.10	152	1.4
ZZ50322		<0.005	0.15	1.97	48	0.07	10.75	141	1.5
ZZ50323		<0.005	0.14	1.07	46	0.19	8.49	137	1.2
ZZ50324		<0.005	0.15	1.96	47	0.05	10.95	143	1.5
ZZ50325		<0.005	0.15	1.89	42	0.05	12.90	145	1.4
ZZ50326		<0.005	0.15	0.82	30	<0.05	8.64	144	1.1
ZZ50327		<0.005	0.10	0.69	34	<0.05	9.61	143	1.6



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50328		0.20	0.001	0.24	1.44	11.6	<0.2	<10	360	1.08	0.31	0.73	0.57	13.05	10.6	24
ZZ50329		0.20	0.002	0.18	1.25	19.6	<0.2	<10	330	1.00	0.28	0.69	0.43	12.50	15.7	22
ZZ50330		0.21	0.004	0.48	1.47	25.5	<0.2	<10	420	0.98	0.31	0.60	0.50	19.05	12.4	27
ZZ50331		0.20	0.003	0.33	1.63	23.4	<0.2	<10	360	0.92	0.30	0.36	0.34	30.2	16.9	30
ZZ50332		0.27	0.004	0.30	1.70	16.4	<0.2	<10	330	0.90	0.29	0.42	0.29	22.5	18.5	31
ZZ50333		0.15	0.002	0.13	1.81	11.9	<0.2	<10	210	1.26	0.24	0.64	0.15	13.15	20.7	25
ZZ50334		0.28	0.001	0.18	1.28	19.1	<0.2	<10	170	0.71	0.27	0.39	0.40	24.7	20.2	23
ZZ50335		0.17	0.003	0.22	1.44	17.0	<0.2	<10	270	0.76	0.26	0.84	0.43	26.6	16.2	26
ZZ50336		0.12	0.013	0.21	1.18	22.3	<0.2	10	500	0.65	0.19	2.24	0.87	12.00	15.7	19
ZZ50337		0.16	0.002	0.23	1.06	17.5	<0.2	<10	430	0.58	0.19	2.03	0.62	15.50	9.7	19
ZZ50338		0.16	0.002	0.26	1.13	15.4	<0.2	<10	380	0.72	0.22	1.86	0.54	21.4	11.1	22
ZZ50339		0.28	0.002	0.27	1.34	24.1	<0.2	<10	360	0.78	0.24	0.78	1.39	16.35	12.8	24
ZZ50340		0.24	0.001	0.29	1.11	24.6	<0.2	<10	390	0.91	0.22	0.50	1.12	14.65	12.8	21
ZZ50341		0.25	0.003	0.27	1.00	21.2	<0.2	<10	320	0.92	0.21	0.24	1.08	15.45	11.8	19
ZZ50342		0.16	0.001	0.21	1.02	17.7	<0.2	<10	280	0.70	0.21	0.58	0.84	12.45	10.2	19
ZZ50343		0.18	0.005	0.40	1.29	31.4	<0.2	<10	310	0.78	0.24	1.24	0.44	20.3	10.5	24
ZZ50344		0.16	0.003	0.21	1.57	13.5	<0.2	<10	320	0.87	0.24	1.33	0.46	19.65	13.4	25
ZZ50345		0.23	0.003	0.15	1.57	12.8	<0.2	<10	240	0.90	0.25	0.78	0.41	22.7	14.7	25
ZZ50346		0.16	0.013	0.15	1.56	10.0	<0.2	<10	260	0.77	0.23	1.36	0.32	20.0	17.7	23
ZZ50347		0.26	0.002	0.17	1.98	10.8	<0.2	<10	330	0.91	0.27	0.52	0.30	27.2	15.1	31
ZZ50348		0.27	0.002	0.24	1.80	14.6	<0.2	<10	330	0.94	0.27	0.68	0.32	28.1	17.6	28
ZZ50349		0.25	0.004	0.33	1.82	12.5	<0.2	<10	430	0.93	0.28	0.87	0.51	26.7	18.4	30
ZZ50350		0.23	0.004	0.27	1.91	14.7	<0.2	<10	430	0.91	0.29	1.03	0.56	29.3	20.9	29
ZZ36556		0.26	0.006	0.59	0.42	15.3	<0.2	<10	350	0.68	0.20	0.87	1.05	23.7	10.1	8
ZZ36557		0.32	0.013	0.75	0.33	20.8	<0.2	<10	170	0.56	0.21	1.54	1.25	35.7	13.3	7
ZZ36558		0.31	0.012	0.81	0.34	21.5	<0.2	<10	190	0.60	0.23	1.47	1.22	33.6	15.2	7
ZZ36559		0.31	0.008	0.80	0.30	24.0	<0.2	<10	170	0.54	0.22	2.12	1.30	34.2	15.1	6
ZZ36560		0.32	0.023	1.07	0.33	25.6	<0.2	<10	180	0.71	0.23	1.04	1.31	34.1	16.1	7
ZZ36561		0.27	0.016	0.88	0.37	26.6	<0.2	<10	190	0.62	0.21	1.11	1.07	32.3	15.4	7
ZZ36562		0.33	0.008	0.72	0.48	18.6	<0.2	<10	220	0.69	0.21	0.73	1.12	48.1	17.0	10
ZZ36563		0.33	0.001	0.15	1.55	15.2	<0.2	<10	210	0.63	0.23	0.10	0.39	26.8	11.2	26
ZZ36564		0.25	0.004	0.21	0.78	14.1	<0.2	<10	130	0.66	0.18	0.16	0.32	45.6	14.2	13
ZZ36565		0.25	0.002	0.15	0.96	10.9	<0.2	<10	280	0.70	0.20	0.94	0.19	38.9	12.1	13
ZZ36566		0.29	0.002	0.18	1.15	10.2	<0.2	<10	360	0.95	0.18	1.07	0.18	47.0	13.6	18
ZZ36567		0.26	0.010	0.41	1.13	7.6	<0.2	<10	260	0.64	0.14	0.49	0.23	48.0	9.1	16
ZZ36568		0.30	0.001	0.28	0.88	13.1	<0.2	<10	230	0.83	0.26	0.31	0.63	13.80	7.9	13
ZZ36569		0.30	0.002	0.41	0.72	15.5	<0.2	<10	110	0.85	0.24	0.10	1.24	16.50	8.4	16
ZZ36570		0.27	0.002	0.24	0.59	19.4	<0.2	<10	110	0.81	0.25	0.15	1.29	16.75	9.8	14
ZZ36571		0.29	0.001	0.29	1.65	12.1	<0.2	<10	180	0.64	0.23	0.18	0.70	44.1	15.3	28
ZZ36572		0.32	0.001	0.27	1.39	12.0	<0.2	<10	210	0.69	0.26	0.25	0.59	44.2	21.7	25



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Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50328		0.95	41.8	2.39	3.79	<0.05	0.06	0.15	0.043	0.10	5.3	25.1	0.45	449	1.49	0.01
ZZ50329		0.91	39.8	3.99	3.30	<0.05	0.06	0.12	0.042	0.08	5.2	22.4	0.41	421	1.69	<0.01
ZZ50330		1.48	83.2	3.93	4.13	0.05	0.07	0.42	0.043	0.11	8.9	20.3	0.52	628	1.73	<0.01
ZZ50331		0.97	61.1	4.17	4.62	0.06	0.06	0.27	0.034	0.07	13.9	24.8	0.66	314	1.65	<0.01
ZZ50332		0.97	59.2	3.76	4.75	0.05	0.08	0.18	0.035	0.11	9.4	30.9	0.65	202	1.85	0.01
ZZ50333		0.71	33.0	3.59	4.24	0.11	0.07	0.09	0.037	0.08	5.9	38.4	0.54	300	1.15	0.01
ZZ50334		0.79	57.3	3.62	4.07	0.13	0.08	0.14	0.033	0.07	10.9	26.1	0.60	577	1.34	<0.01
ZZ50335		0.74	47.2	3.44	4.48	0.11	0.07	0.16	0.033	0.07	11.7	31.7	0.70	469	1.06	<0.01
ZZ50336		0.74	45.4	3.03	3.37	0.08	0.09	0.20	0.025	0.07	6.2	17.6	0.44	355	0.69	0.01
ZZ50337		0.63	33.6	2.41	3.24	0.08	0.05	0.17	0.026	0.05	7.9	15.5	0.44	778	0.91	0.01
ZZ50338		0.70	42.8	2.33	3.38	0.09	0.06	0.19	0.026	0.06	10.4	19.8	0.42	596	0.78	0.01
ZZ50339		0.87	39.1	3.66	4.19	0.11	0.07	0.15	0.033	0.06	7.9	21.1	0.49	218	2.94	0.01
ZZ50340		0.90	40.7	3.46	3.41	0.10	0.07	0.13	0.032	0.06	7.0	18.8	0.37	395	5.42	<0.01
ZZ50341		0.91	36.7	3.01	3.08	0.10	0.05	0.11	0.032	0.06	7.4	17.3	0.34	240	4.96	<0.01
ZZ50342		0.57	22.4	2.78	3.22	0.08	0.06	0.17	0.033	0.06	6.1	16.6	0.34	342	3.70	<0.01
ZZ50343		1.08	41.4	3.02	3.97	0.10	0.07	0.20	0.034	0.07	10.8	23.5	0.50	464	1.49	0.01
ZZ50344		0.87	49.3	2.99	4.77	0.11	0.09	0.14	0.031	0.09	9.6	30.9	0.60	781	0.90	0.01
ZZ50345		0.79	45.8	2.88	4.74	0.10	0.09	0.10	0.034	0.10	10.4	33.7	0.63	123	0.98	0.01
ZZ50346		0.80	44.5	3.78	4.51	0.11	0.09	0.10	0.028	0.10	9.5	31.8	0.66	1000	1.05	0.01
ZZ50347		1.16	56.3	3.98	5.85	0.13	0.10	0.10	0.037	0.11	12.7	39.3	0.80	361	0.92	<0.01
ZZ50348		1.12	67.5	3.91	5.49	0.13	0.11	0.13	0.036	0.10	13.8	38.4	0.84	228	1.63	<0.01
ZZ50349		1.16	86.7	3.79	5.60	0.13	0.10	0.15	0.036	0.11	12.4	38.6	0.85	216	2.04	<0.01
ZZ50350		1.33	88.2	4.20	5.62	0.14	0.11	0.14	0.035	0.13	13.3	36.9	0.89	736	1.32	0.01
ZZ36556		0.44	61.5	2.87	1.25	0.11	0.10	0.16	0.037	0.08	11.9	3.9	0.08	211	6.05	<0.01
ZZ36557		0.96	74.3	3.22	1.09	0.12	0.09	0.27	0.039	0.10	19.6	2.8	0.24	260	7.55	<0.01
ZZ36558		1.08	86.1	3.47	1.15	0.13	0.08	0.23	0.041	0.10	17.7	2.9	0.28	291	8.15	<0.01
ZZ36559		0.90	74.9	3.54	1.03	0.12	0.09	0.27	0.039	0.09	17.6	2.2	0.52	292	9.93	<0.01
ZZ36560		1.36	91.9	3.72	1.08	0.13	0.08	0.58	0.042	0.11	19.8	3.4	0.15	284	9.89	<0.01
ZZ36561		1.42	85.3	3.61	1.20	0.12	0.10	0.47	0.039	0.11	19.0	3.9	0.14	274	7.63	<0.01
ZZ36562		0.89	65.0	3.90	1.57	0.15	0.08	0.14	0.038	0.11	26.7	4.2	0.11	349	7.17	<0.01
ZZ36563		1.43	29.5	3.71	4.86	0.10	0.09	0.06	0.033	0.07	13.4	18.8	0.36	222	2.67	<0.01
ZZ36564		1.18	40.6	4.80	2.18	0.15	0.05	0.06	0.034	0.06	23.0	4.2	0.09	297	5.34	0.01
ZZ36565		1.37	28.7	3.63	3.34	0.12	0.05	0.08	0.034	0.08	21.2	6.4	0.12	346	2.89	0.01
ZZ36566		0.94	34.0	3.54	3.66	0.12	0.07	0.09	0.038	0.09	24.0	11.0	0.21	549	2.60	<0.01
ZZ36567		2.00	22.9	2.53	4.05	0.13	0.03	0.07	0.025	0.06	25.8	5.9	0.13	496	2.59	0.01
ZZ36568		2.49	50.3	2.46	3.02	0.08	0.03	0.04	0.034	0.06	7.6	3.0	0.06	252	6.60	<0.01
ZZ36569		1.90	47.2	2.96	2.56	0.08	0.02	0.06	0.033	0.07	8.1	3.8	0.07	246	6.54	<0.01
ZZ36570		1.82	50.7	3.23	2.06	0.09	0.02	0.09	0.034	0.08	8.0	3.5	0.08	248	8.32	<0.01
ZZ36571		1.32	29.4	3.85	4.60	0.07	0.02	0.08	0.039	0.07	19.4	22.2	0.43	647	2.52	0.01
ZZ36572		1.81	32.4	4.83	5.37	0.06	<0.02	0.09	0.044	0.09	20.4	19.7	0.40	852	2.97	0.01

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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50328		0.30	33.8	720	17.7	9.9	0.003	0.09	0.51	6.2	1.8	0.5	44.6	<0.01	0.06	2.9
ZZ50329		0.27	38.6	820	19.2	8.9	0.004	0.06	0.58	6.1	1.6	0.5	38.0	<0.01	0.08	3.0
ZZ50330		0.25	43.7	710	16.8	9.6	0.001	0.03	0.68	7.7	1.8	0.6	34.4	<0.01	0.09	2.9
ZZ50331		0.38	40.0	650	17.3	6.7	<0.001	<0.01	0.63	7.1	1.3	0.5	26.4	<0.01	0.09	4.4
ZZ50332		0.38	39.5	660	16.5	8.9	0.001	<0.01	0.52	7.9	1.2	0.6	27.6	<0.01	0.08	4.5
ZZ50333		0.34	54.8	530	12.9	8.5	0.001	0.03	0.39	5.8	1.4	0.5	32.3	0.01	0.06	3.1
ZZ50334		0.26	44.5	630	19.7	6.8	0.001	0.01	0.50	6.4	1.1	0.4	23.9	<0.01	0.06	4.5
ZZ50335		0.45	33.2	800	19.8	6.6	0.001	0.03	0.58	6.4	1.3	0.3	37.6	<0.01	0.07	3.2
ZZ50336		0.36	28.0	930	12.7	6.9	0.002	0.30	0.54	4.3	2.0	0.4	81.4	<0.01	0.06	1.2
ZZ50337		0.45	23.6	920	12.8	7.1	<0.001	0.09	0.57	3.3	1.8	0.4	69.6	<0.01	0.07	0.8
ZZ50338		0.60	26.0	840	15.5	8.2	<0.001	0.07	0.64	4.1	1.8	0.4	62.8	0.01	0.06	1.1
ZZ50339		0.43	34.7	800	17.4	9.9	0.003	0.06	0.92	5.9	3.1	0.5	45.5	<0.01	0.06	3.0
ZZ50340		0.24	37.4	950	15.5	7.8	0.003	0.01	1.36	5.6	3.0	0.4	43.9	<0.01	0.06	3.3
ZZ50341		0.24	31.7	990	16.0	7.1	0.003	0.01	1.35	5.1	2.9	0.4	36.2	<0.01	0.05	3.4
ZZ50342		0.23	27.7	710	13.8	6.6	0.001	0.02	0.85	4.8	1.3	0.5	36.1	<0.01	0.05	2.2
ZZ50343		0.48	31.2	670	17.5	8.9	0.001	0.05	0.84	5.8	1.6	0.4	47.6	<0.01	0.08	2.0
ZZ50344		0.40	33.8	780	15.6	9.5	0.002	0.08	0.52	5.8	1.4	0.4	48.6	<0.01	0.07	2.7
ZZ50345		0.32	38.9	620	18.2	8.9	0.002	0.05	0.48	6.3	1.2	0.4	29.1	<0.01	0.06	4.0
ZZ50346		0.28	32.4	690	16.3	8.2	0.003	0.07	0.37	5.4	1.2	0.4	45.7	<0.01	0.08	2.5
ZZ50347		0.32	34.7	620	18.5	10.4	0.001	0.04	0.38	7.7	1.1	0.4	23.7	<0.01	0.06	4.3
ZZ50348		0.26	37.5	540	19.4	7.8	0.001	0.01	0.54	8.6	1.1	0.4	31.0	0.01	0.08	4.1
ZZ50349		0.26	42.7	650	18.7	8.3	0.003	0.03	0.72	8.6	1.8	0.4	29.2	0.01	0.08	3.6
ZZ50350		0.25	44.4	720	19.1	8.4	0.001	0.03	0.65	7.8	1.3	0.4	36.4	<0.01	0.09	3.8
ZZ36556		0.15	34.0	1570	19.1	5.9	0.002	0.06	1.93	5.1	1.9	0.3	33.8	0.01	0.07	1.6
ZZ36557		0.13	42.6	1580	22.5	5.3	0.003	0.07	2.47	7.1	2.1	0.3	47.0	0.01	0.06	2.7
ZZ36558		0.14	46.7	1650	24.9	5.4	0.002	0.07	2.66	6.9	2.1	0.3	48.3	0.01	0.08	2.8
ZZ36559		0.12	46.7	1570	25.3	4.6	0.003	0.10	2.69	7.0	2.0	0.3	55.9	0.01	0.07	4.1
ZZ36560		0.13	52.6	1410	25.9	5.7	0.002	0.06	3.12	7.3	2.3	0.3	39.3	0.01	0.08	2.6
ZZ36561		0.16	45.5	1430	23.2	6.1	0.002	0.10	2.66	6.6	2.8	0.3	39.2	0.01	0.08	2.2
ZZ36562		0.18	50.6	1690	26.0	6.0	0.002	0.07	2.08	7.3	1.8	0.3	27.0	0.01	0.07	3.1
ZZ36563		0.57	30.4	1270	18.5	9.9	0.001	0.04	0.80	3.4	0.9	0.5	8.5	<0.01	0.06	1.7
ZZ36564		0.31	35.9	1430	26.3	9.2	0.001	0.03	1.17	3.7	1.5	0.3	9.2	0.01	0.04	1.7
ZZ36565		0.42	27.0	1390	18.5	11.4	<0.001	0.06	0.80	3.0	1.2	0.6	24.3	0.01	0.04	0.9
ZZ36566		0.38	31.6	1300	15.9	11.0	0.001	0.06	0.70	4.4	1.2	0.5	27.9	0.01	0.04	1.6
ZZ36567		0.23	18.8	2490	9.3	10.8	<0.001	0.16	0.65	0.5	1.3	0.5	16.8	0.01	0.03	<0.2
ZZ36568		0.19	27.5	1970	17.0	11.7	0.003	0.05	3.10	1.2	2.8	0.5	14.5	<0.01	0.06	0.4
ZZ36569		0.11	28.5	1720	17.2	10.8	0.003	0.05	3.29	0.5	2.5	0.5	7.9	<0.01	0.06	<0.2
ZZ36570		0.11	33.0	1660	18.9	8.9	0.003	0.03	3.85	0.8	2.5	0.4	10.5	<0.01	0.07	0.2
ZZ36571		0.34	33.5	2040	16.9	7.3	<0.001	0.06	0.90	1.4	0.9	0.5	16.2	0.01	0.05	0.7
ZZ36572		0.51	35.0	1450	20.4	13.0	0.001	0.06	0.86	2.0	0.6	0.6	18.4	<0.01	0.04	0.6

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ50328		<0.005	0.13	1.02	41	0.05	10.60	134	1.6
ZZ50329		<0.005	0.11	1.11	36	<0.05	10.95	127	1.6
ZZ50330		<0.005	0.15	0.87	46	<0.05	12.70	145	2.0
ZZ50331		0.008	0.10	1.16	53	0.07	12.30	122	1.9
ZZ50332		0.006	0.12	0.65	47	0.07	11.65	132	2.9
ZZ50333		<0.005	0.10	1.00	38	0.09	12.00	151	1.6
ZZ50334		<0.005	0.11	0.75	37	0.06	11.85	111	2.5
ZZ50335		0.009	0.12	1.31	45	0.08	11.00	122	2.1
ZZ50336		<0.005	0.10	1.86	33	0.08	9.25	129	2.7
ZZ50337		0.009	0.12	1.38	32	0.11	9.78	121	1.3
ZZ50338		0.011	0.12	1.61	37	0.12	12.25	92	1.6
ZZ50339		<0.005	0.21	2.08	64	0.08	11.35	161	2.1
ZZ50340		<0.005	0.23	2.19	65	0.07	10.95	169	2.1
ZZ50341		<0.005	0.25	2.55	62	0.06	12.10	177	1.8
ZZ50342		<0.005	0.18	1.41	51	0.06	9.22	158	1.6
ZZ50343		0.008	0.20	1.31	46	0.12	15.20	116	1.6
ZZ50344		0.005	0.12	1.28	40	0.07	11.60	107	2.6
ZZ50345		<0.005	0.10	0.92	40	0.06	11.55	112	3.1
ZZ50346		<0.005	0.08	0.85	36	0.09	10.20	86	2.7
ZZ50347		<0.005	0.12	0.84	49	0.07	11.80	99	3.3
ZZ50348		0.005	0.11	0.74	48	0.06	14.50	106	3.6
ZZ50349		0.005	0.12	1.19	52	0.06	14.35	125	3.4
ZZ50350		0.005	0.12	1.08	49	0.06	12.85	112	3.7
ZZ36556		<0.005	0.23	1.76	25	0.06	16.85	166	2.9
ZZ36557		<0.005	0.18	1.53	24	<0.05	20.5	203	3.1
ZZ36558		<0.005	0.19	1.61	24	<0.05	19.70	212	2.7
ZZ36559		<0.005	0.18	1.75	23	0.05	18.60	218	5.1
ZZ36560		<0.005	0.22	1.51	25	0.05	18.80	244	3.2
ZZ36561		<0.005	0.20	1.64	24	<0.05	18.60	202	3.5
ZZ36562		<0.005	0.20	1.28	25	0.05	18.45	177	2.2
ZZ36563		0.007	0.20	0.83	49	0.14	4.82	86	2.4
ZZ36564		0.005	0.24	1.03	26	0.12	9.05	105	1.1
ZZ36565		0.007	0.19	0.70	39	0.09	9.55	86	0.8
ZZ36566		0.005	0.14	0.88	37	0.10	11.95	81	1.6
ZZ36567		<0.005	0.29	0.93	34	0.09	13.05	61	<0.5
ZZ36568		<0.005	0.34	1.50	44	0.07	6.43	189	0.7
ZZ36569		<0.005	0.26	1.66	42	0.07	5.54	194	<0.5
ZZ36570		<0.005	0.20	1.85	34	0.07	7.66	232	<0.5
ZZ36571		0.009	0.14	0.98	44	0.14	8.47	113	0.7
ZZ36572		0.011	0.17	0.72	51	0.11	6.69	121	<0.5



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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36573		0.28	0.001	0.12	1.45	12.0	<0.2	<10	120	0.50	0.22	0.15	0.67	39.0	17.2	27
ZZ36574		0.27	0.002	0.15	1.68	14.0	<0.2	<10	160	0.63	0.23	0.11	0.69	43.5	14.1	23
ZZ36575		0.29	0.001	0.57	1.44	11.3	<0.2	<10	150	0.36	0.25	0.06	0.29	35.2	8.3	18
ZZ36576		0.28	<0.001	0.16	1.56	11.1	<0.2	<10	130	0.48	0.21	0.07	0.42	37.0	14.4	25
ZZ36577		0.36	0.002	0.36	1.66	11.1	<0.2	<10	170	0.68	0.20	0.64	0.56	56.1	14.0	26
ZZ36578		0.23	0.001	0.09	1.26	14.4	<0.2	<10	90	0.35	0.19	0.06	0.30	29.9	14.0	28
ZZ36579		0.26	0.003	0.06	1.28	16.1	<0.2	<10	60	0.37	0.22	0.09	0.35	39.7	13.9	25
ZZ36580		0.25	0.002	0.08	1.51	11.7	<0.2	<10	70	0.32	0.27	0.05	0.30	30.9	8.9	29
ZZ36581		0.21	0.001	0.08	1.32	10.8	<0.2	<10	100	0.32	0.28	0.06	0.36	29.1	6.7	25
ZZ36582		0.30	0.003	0.10	1.49	15.2	<0.2	<10	100	0.47	0.22	0.14	0.54	37.2	14.7	30
ZZ36583		0.28	0.001	0.12	1.17	11.6	<0.2	<10	110	0.41	0.22	0.07	0.27	27.9	9.4	23
ZZ36584		0.25	<0.001	0.20	1.35	32.0	<0.2	<10	570	0.95	0.38	0.41	0.45	15.70	13.6	22
ZZ36585		0.23	0.008	0.31	0.71	26.9	<0.2	<10	350	1.18	0.40	0.32	0.74	15.75	18.0	12
ZZ36586		0.21	0.003	0.10	1.35	13.3	<0.2	<10	230	0.60	0.31	0.20	0.26	19.95	10.0	21
ZZ36587		0.19	0.008	0.56	1.38	9.8	<0.2	<10	620	1.17	0.32	0.54	0.41	22.3	13.0	22
ZZ36588		0.13	0.004	0.28	1.34	8.6	<0.2	<10	630	1.43	0.31	0.79	0.38	22.3	9.6	19
ZZ36589		0.19	0.001	0.07	0.81	13.8	<0.2	<10	220	0.82	0.27	0.19	0.61	23.9	18.8	16
ZZ36590		0.20	0.004	0.09	1.17	16.7	<0.2	<10	290	0.71	0.24	0.26	0.64	31.1	11.5	22
ZZ36591		0.15	<0.001	0.08	1.00	25.3	<0.2	<10	350	0.58	0.27	0.31	1.10	17.90	10.1	19
ZZ36592		0.19	0.002	0.16	0.69	35.5	<0.2	<10	140	0.47	0.32	0.04	0.96	10.40	8.2	12
ZZ36593		0.17	0.005	0.12	0.77	26.6	<0.2	<10	670	0.86	0.32	0.36	0.50	12.15	11.2	14
ZZ36594		0.15	0.002	0.07	1.36	17.9	<0.2	<10	370	0.92	0.29	0.28	0.47	31.8	12.4	26
ZZ36595		0.19	0.005	0.27	0.93	22.6	<0.2	<10	610	0.92	0.35	0.34	1.28	20.7	14.6	16
ZZ36596		0.19	0.008	0.33	1.12	16.7	<0.2	<10	580	1.15	0.34	0.27	0.34	19.65	9.0	17
ZZ36597		0.15	0.004	0.09	1.06	17.1	<0.2	<10	520	0.96	0.37	0.25	0.29	17.05	9.4	16
ZZ36598		0.14	<0.001	0.07	1.21	20.3	<0.2	<10	340	0.64	0.31	0.23	0.23	15.50	9.8	19
ZZ36599		0.17	<0.001	0.07	1.18	23.2	<0.2	<10	280	0.85	0.36	0.14	0.41	20.4	11.3	22
ZZ36600		0.19	0.001	0.02	0.57	9.4	<0.2	<10	80	0.37	0.34	0.13	0.04	11.20	6.4	7
ZZ36601		0.19	0.001	0.07	0.64	11.2	<0.2	<10	230	1.26	0.48	0.47	0.06	27.9	17.3	7



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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36573		1.63	30.0	4.52	4.85	0.05	<0.02	0.07	0.035	0.07	17.9	18.1	0.40	686	2.23	0.01
ZZ36574		1.23	31.3	4.26	5.05	0.06	0.03	0.08	0.038	0.08	20.4	21.6	0.37	541	3.18	0.01
ZZ36575		1.59	29.1	4.22	5.85	0.05	<0.02	0.09	0.036	0.09	19.0	8.9	0.22	258	3.16	0.01
ZZ36576		1.98	29.6	4.29	5.39	0.06	0.02	0.07	0.039	0.08	17.4	14.9	0.38	622	2.71	0.01
ZZ36577		1.98	36.3	3.61	4.56	0.09	0.03	0.08	0.042	0.07	27.6	22.9	0.57	330	2.37	0.01
ZZ36578		2.02	27.8	4.05	5.24	0.05	0.02	0.06	0.035	0.06	14.7	10.3	0.30	469	3.70	<0.01
ZZ36579		1.34	29.3	4.27	5.57	0.06	<0.02	0.07	0.038	0.06	19.5	14.1	0.37	404	3.98	0.01
ZZ36580		1.91	20.8	3.94	7.09	<0.05	<0.02	0.05	0.031	0.05	15.9	13.4	0.31	273	2.36	0.01
ZZ36581		1.57	15.0	3.32	5.78	<0.05	<0.02	0.08	0.031	0.06	14.7	9.2	0.26	281	2.63	0.01
ZZ36582		1.24	28.2	4.31	4.48	0.05	0.04	0.07	0.034	0.07	16.3	20.2	0.42	418	3.47	0.01
ZZ36583		0.96	27.9	3.17	4.59	<0.05	<0.02	0.05	0.029	0.08	13.7	10.6	0.26	337	2.87	<0.01
ZZ36584		1.87	21.8	3.17	4.41	<0.05	0.06	0.18	0.034	0.09	6.9	15.9	0.35	723	2.32	0.01
ZZ36585		1.82	50.8	4.42	2.02	<0.05	0.08	1.15	0.043	0.08	7.2	8.0	0.16	645	1.25	<0.01
ZZ36586		1.22	33.0	3.54	4.39	<0.05	0.02	0.12	0.036	0.07	8.9	17.2	0.32	303	2.15	<0.01
ZZ36587		3.36	48.6	3.17	3.98	0.07	0.13	0.33	0.035	0.11	12.6	24.0	0.38	707	1.35	<0.01
ZZ36588		3.34	25.1	2.72	4.32	0.06	0.06	0.15	0.027	0.11	14.1	22.2	0.34	376	1.15	<0.01
ZZ36589		0.85	37.7	3.82	2.58	0.05	0.04	0.07	0.035	0.07	10.2	10.8	0.29	984	1.87	<0.01
ZZ36590		1.28	22.4	3.15	3.38	<0.05	0.03	0.23	0.031	0.07	12.2	16.3	0.34	515	2.33	<0.01
ZZ36591		1.46	20.6	3.32	3.26	<0.05	0.04	0.40	0.036	0.06	7.8	13.3	0.31	351	1.93	<0.01
ZZ36592		1.81	28.6	3.37	2.43	<0.05	<0.02	0.14	0.038	0.05	5.3	2.7	0.06	245	1.61	<0.01
ZZ36593		1.47	30.7	3.56	2.62	<0.05	0.06	0.49	0.041	0.07	5.9	9.2	0.20	309	1.55	<0.01
ZZ36594		1.63	20.3	3.48	4.51	<0.05	0.04	0.18	0.037	0.07	12.0	32.6	0.43	784	1.41	<0.01
ZZ36595		2.10	38.6	3.24	2.88	<0.05	0.10	0.45	0.040	0.08	8.8	13.7	0.23	1010	1.91	<0.01
ZZ36596		4.14	26.2	2.89	3.67	0.05	0.08	0.62	0.036	0.10	10.5	24.6	0.26	343	0.96	<0.01
ZZ36597		5.33	31.7	3.04	3.74	<0.05	0.07	0.22	0.035	0.10	8.1	19.1	0.24	317	1.78	<0.01
ZZ36598		1.44	26.6	3.48	4.58	<0.05	0.04	0.06	0.038	0.06	7.1	13.9	0.25	283	2.64	<0.01
ZZ36599		2.10	25.0	3.54	3.99	<0.05	0.04	0.11	0.038	0.07	8.7	16.7	0.29	478	14.30	<0.01
ZZ36600		2.43	20.0	1.71	1.91	<0.05	<0.02	0.08	0.024	0.07	5.4	1.5	0.04	156	0.58	<0.01
ZZ36601		1.27	41.1	3.93	1.52	0.08	0.03	0.47	0.043	0.08	16.0	6.3	0.06	601	0.42	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12193037**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36573		0.47	32.9	1830	17.2	9.6	<0.001	0.03	0.90	1.9	0.9	0.5	12.7	<0.01	0.03	0.8
ZZ36574		0.48	25.0	1640	14.8	9.7	<0.001	0.03	0.94	2.4	1.0	0.5	13.0	<0.01	0.02	1.2
ZZ36575		0.56	16.4	1780	14.6	10.4	<0.001	0.05	0.98	1.5	0.8	0.6	10.9	<0.01	0.05	0.6
ZZ36576		0.25	27.5	2320	15.4	11.2	<0.001	0.05	0.83	1.0	0.4	0.5	11.3	0.01	0.04	0.5
ZZ36577		0.27	37.3	1890	14.0	7.4	0.001	0.06	0.92	1.7	1.0	0.6	42.4	<0.01	0.02	0.7
ZZ36578		0.26	26.3	1930	14.3	9.5	<0.001	0.05	1.30	0.8	0.9	0.6	9.6	<0.01	0.04	0.3
ZZ36579		0.50	29.6	1290	16.1	9.1	0.001	0.03	1.42	1.5	0.7	0.6	10.9	<0.01	0.04	0.6
ZZ36580		0.73	21.0	1000	16.2	11.9	<0.001	0.03	1.00	1.5	0.4	0.7	6.8	<0.01	0.04	0.5
ZZ36581		0.79	16.3	1040	13.9	10.0	<0.001	0.03	0.79	1.2	0.6	0.7	8.4	<0.01	0.03	0.3
ZZ36582		0.50	32.1	1930	16.6	7.5	0.001	0.03	1.35	1.7	0.8	0.5	14.0	<0.01	0.03	0.8
ZZ36583		0.30	20.1	1090	12.5	8.4	<0.001	0.01	0.95	0.9	0.6	0.6	10.7	<0.01	0.05	0.2
ZZ36584		0.37	19.8	1240	24.4	18.2	<0.001	0.06	0.74	3.3	0.6	0.5	25.5	<0.01	0.03	1.5
ZZ36585		0.21	31.4	750	38.6	10.6	<0.001	0.01	1.53	7.9	1.0	0.5	32.9	<0.01	0.06	2.4
ZZ36586		0.37	23.4	830	20.9	11.9	<0.001	0.01	0.92	3.2	0.4	0.5	17.7	<0.01	0.06	1.5
ZZ36587		0.43	27.8	820	25.1	21.0	<0.001	0.06	0.74	5.5	1.7	0.6	27.3	<0.01	0.05	2.3
ZZ36588		0.73	24.2	960	22.9	22.0	<0.001	0.08	0.69	3.5	1.5	0.5	33.8	<0.01	0.04	1.4
ZZ36589		0.25	31.5	870	25.4	6.2	<0.001	0.02	0.98	4.2	1.0	0.3	23.1	<0.01	0.04	2.5
ZZ36590		0.54	30.5	890	22.2	9.4	<0.001	0.03	1.14	3.5	1.2	0.5	22.0	<0.01	0.06	1.8
ZZ36591		0.49	23.1	800	38.7	10.7	<0.001	0.04	1.47	3.4	1.0	0.5	25.8	<0.01	0.06	1.4
ZZ36592		0.31	20.0	750	51.0	8.8	<0.001	0.03	2.19	2.7	0.7	0.5	10.4	<0.01	0.07	0.7
ZZ36593		0.34	25.8	680	39.9	10.0	<0.001	0.04	1.99	5.2	1.2	0.6	52.3	<0.01	0.05	1.7
ZZ36594		0.73	25.6	970	32.3	13.5	<0.001	0.03	0.98	3.9	1.2	0.6	31.9	<0.01	0.04	1.7
ZZ36595		0.34	35.7	700	45.8	11.0	<0.001	0.04	1.55	5.6	1.2	0.5	40.3	<0.01	0.06	2.4
ZZ36596		0.44	21.4	710	35.6	22.3	<0.001	0.03	0.88	5.2	1.3	0.6	41.0	<0.01	0.04	1.9
ZZ36597		0.35	22.9	920	34.9	23.8	<0.001	0.04	1.05	4.0	0.9	0.6	59.9	<0.01	0.04	1.7
ZZ36598		0.48	26.5	810	30.7	11.4	<0.001	0.04	1.41	3.1	1.2	0.6	32.1	<0.01	0.08	1.5
ZZ36599		0.45	29.7	1020	33.7	17.0	<0.001	0.04	1.22	3.1	1.4	0.6	20.0	<0.01	0.09	1.1
ZZ36600		0.21	11.5	350	14.9	9.6	<0.001	0.02	0.39	2.4	0.7	0.5	9.8	<0.01	0.04	1.5
ZZ36601		0.14	33.4	310	25.2	6.2	<0.001	0.02	0.45	8.7	1.5	0.5	21.1	<0.01	0.06	3.8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36573		0.012	0.14	0.61	52	0.10	5.47	112	<0.5
ZZ36574		0.011	0.16	0.90	52	0.10	7.19	114	0.8
ZZ36575		0.013	0.17	0.63	62	0.11	3.47	101	<0.5
ZZ36576		0.008	0.14	0.61	53	0.08	4.46	110	0.6
ZZ36577		0.008	0.13	1.08	42	0.10	13.50	117	0.7
ZZ36578		0.006	0.20	0.58	55	0.08	3.58	104	0.5
ZZ36579		0.011	0.15	0.55	52	0.10	4.21	112	<0.5
ZZ36580		0.015	0.15	0.46	70	0.14	2.97	80	<0.5
ZZ36581		0.020	0.16	0.60	55	0.17	2.88	73	<0.5
ZZ36582		0.011	0.17	0.76	50	0.11	5.34	129	0.8
ZZ36583		0.012	0.15	0.65	50	0.19	3.63	95	<0.5
ZZ36584		0.005	0.19	1.22	35	0.08	5.13	142	1.4
ZZ36585		<0.005	0.14	1.17	23	0.05	12.20	252	1.5
ZZ36586		0.006	0.18	0.65	46	0.07	4.74	148	0.6
ZZ36587		0.008	0.14	1.40	32	0.26	22.7	131	2.9
ZZ36588		0.014	0.15	1.23	33	0.25	23.6	103	1.4
ZZ36589		0.007	0.10	0.85	31	0.08	7.29	172	1.1
ZZ36590		0.013	0.18	1.05	47	0.17	7.17	257	1.0
ZZ36591		0.009	0.16	0.72	42	0.12	4.09	348	1.2
ZZ36592		0.005	0.15	0.48	33	0.06	2.91	270	<0.5
ZZ36593		0.005	0.11	0.60	30	0.07	5.61	212	1.4
ZZ36594		0.019	0.13	0.93	44	0.19	8.73	202	1.1
ZZ36595		0.005	0.18	0.97	32	0.08	10.85	228	2.3
ZZ36596		0.007	0.14	0.86	30	0.11	15.70	156	1.7
ZZ36597		0.005	0.15	0.88	34	0.08	9.04	131	1.5
ZZ36598		0.007	0.18	0.59	51	0.14	3.49	129	1.2
ZZ36599		0.010	0.16	0.77	42	0.11	5.54	192	0.7
ZZ36600		<0.005	0.10	0.37	14	<0.05	2.38	32	<0.5
ZZ36601		<0.005	0.09	0.50	10	<0.05	21.7	38	1.0



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Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193037**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12193038**

Project: ATAC- Regional - Area E/D  
 P.O. No.: Soil 31  
 This report is for 162 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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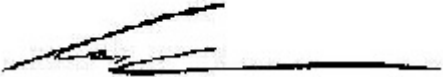
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36649		0.21	0.001	0.08	1.60	18.4	<0.2	<10	340	0.69	0.28	0.08	0.53	22.2	12.2	27
ZZ36650		0.19	0.002	0.36	1.68	12.3	<0.2	<10	450	0.70	0.26	0.14	0.48	24.5	7.2	27
ZZ36651		0.25	0.001	0.60	1.46	18.6	<0.2	<10	320	0.54	0.26	0.07	0.46	16.15	8.1	28
ZZ36652		0.23	0.003	0.79	1.55	21.2	<0.2	<10	470	0.65	0.28	0.22	0.75	18.45	8.8	33
ZZ36653		0.24	0.002	0.16	1.61	24.9	<0.2	<10	340	0.85	0.24	0.08	0.27	20.2	11.0	27
ZZ36654		0.20	0.006	1.93	1.73	17.2	<0.2	<10	1510	0.75	0.28	0.20	0.51	19.40	6.4	32
ZZ36655		0.23	0.001	0.19	1.96	17.4	<0.2	<10	430	0.69	0.28	0.14	0.34	16.65	10.3	32
ZZ36656		0.23	0.003	2.58	1.06	14.1	<0.2	<10	970	0.60	0.24	0.15	0.36	12.35	3.4	39
ZZ36657		0.24	0.004	0.89	1.49	34.4	<0.2	<10	1560	0.68	0.23	0.68	3.03	14.60	10.5	33
ZZ36658		0.21	<0.001	0.12	1.31	18.1	<0.2	<10	640	0.42	0.27	0.28	0.52	20.5	11.0	25
ZZ36659		0.22	0.002	0.58	1.48	21.2	<0.2	<10	820	0.72	0.24	0.53	5.90	20.8	16.3	30
ZZ36660		0.12	0.012	0.13	0.54	3.8	<0.2	<10	260	0.17	0.10	2.67	1.80	5.80	2.5	9
ZZ36661		0.18	0.007	0.26	0.59	19.4	<0.2	<10	410	0.31	0.09	5.39	5.47	6.12	7.1	12
ZZ36662		0.24	0.005	1.18	1.01	46.7	<0.2	<10	2120	0.81	0.17	4.53	14.95	12.95	26.8	30
ZZ36663		0.27	0.003	0.47	1.30	16.3	<0.2	<10	1450	0.68	0.19	2.24	2.23	15.35	12.4	26
ZZ36664		0.25	0.009	0.47	1.19	13.9	<0.2	<10	1120	0.90	0.23	2.15	3.07	12.40	16.2	23
ZZ36665		0.20	0.007	0.47	1.14	13.9	<0.2	<10	1210	0.72	0.18	2.10	3.72	12.95	14.6	24
ZZ36666		0.19	0.001	0.43	1.27	12.4	<0.2	<10	1020	0.73	0.17	2.69	1.91	14.20	10.9	25
ZZ36667		0.22	0.004	0.41	1.49	12.3	<0.2	<10	1050	0.72	0.21	2.47	1.72	16.25	12.8	30
ZZ36668		0.17	0.002	0.32	1.36	10.4	<0.2	<10	900	0.67	0.20	2.08	1.72	15.10	10.1	24
ZZ36669		0.21	0.004	0.52	0.67	7.6	<0.2	<10	490	0.61	0.16	2.72	1.51	5.73	6.5	13
ZZ36670		0.20	0.004	0.41	0.85	12.4	<0.2	<10	710	0.79	0.28	0.91	1.58	7.64	12.3	17
ZZ36671		0.22	0.007	0.23	1.38	13.3	<0.2	<10	470	1.01	0.24	1.42	0.70	12.10	15.8	24
ZZ36672		0.26	0.002	0.60	1.14	21.5	<0.2	<10	1440	0.81	0.21	1.66	2.18	13.35	15.7	21
ZZ36673		0.32	0.002	0.52	0.88	11.6	<0.2	<10	920	0.61	0.20	1.04	1.83	13.25	9.4	19
ZZ36674		0.18	0.005	0.48	0.62	10.7	<0.2	<10	1340	0.41	0.17	1.96	1.63	7.36	8.9	16
ZZ36675		0.25	0.004	1.35	0.55	5.0	<0.2	<10	1160	0.33	0.19	1.26	1.02	10.50	2.3	15
ZZ36676		0.22	0.012	0.51	0.70	14.4	<0.2	<10	2110	0.55	0.15	3.39	2.28	9.51	4.6	15
ZZ36677		0.27	<0.001	0.59	0.72	7.6	<0.2	<10	2310	0.68	0.16	1.97	3.26	9.20	5.3	15
ZZ36678		0.22	0.002	0.28	1.35	15.7	<0.2	<10	1410	0.98	0.30	0.89	2.79	12.50	14.3	22
ZZ36679		0.27	0.003	0.15	1.20	11.0	<0.2	<10	680	0.78	0.32	0.82	1.71	13.65	10.7	22
ZZ36680		0.26	0.002	0.14	1.01	9.3	<0.2	<10	370	0.88	0.32	0.52	1.05	11.90	11.0	20
ZZ36681		0.23	<0.001	0.09	1.08	9.6	<0.2	<10	270	0.82	0.39	0.63	0.60	10.00	11.6	21
ZZ36682		0.20	0.004	0.22	1.32	10.9	<0.2	<10	460	1.01	0.25	1.08	0.55	8.54	8.5	20
ZZ36683		0.25	0.003	0.20	1.19	10.8	<0.2	<10	250	0.79	0.24	0.84	0.73	19.40	12.6	23
ZZ36684		0.34	0.002	0.18	1.63	15.2	<0.2	<10	220	0.98	0.28	0.54	0.43	15.20	15.7	26
ZZ36685		0.26	0.008	0.28	1.44	9.7	<0.2	<10	460	1.15	0.28	1.95	0.68	10.35	9.5	23
ZZ36686		0.24	0.006	0.19	1.30	16.5	<0.2	<10	730	0.84	0.25	0.98	1.10	14.05	21.6	22
ZZ36687		0.25	0.007	0.14	1.59	15.5	<0.2	<10	260	0.92	0.27	1.13	0.63	9.56	16.8	25
ZZ36688		0.25	0.006	0.19	1.43	17.6	<0.2	<10	390	1.04	0.26	1.22	0.74	12.90	33.3	26



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36649		1.39	26.7	4.03	5.50	<0.05	<0.02	0.06	0.038	0.06	7.7	18.1	0.31	688	2.55	<0.01
ZZ36650		1.74	17.2	2.48	5.71	<0.05	<0.02	0.11	0.032	0.07	11.5	17.9	0.38	291	3.56	<0.01
ZZ36651		1.41	25.5	3.43	5.36	<0.05	<0.02	0.09	0.037	0.06	7.3	12.4	0.22	338	5.68	<0.01
ZZ36652		1.71	23.5	3.59	5.88	<0.05	<0.02	0.11	0.042	0.08	9.0	17.0	0.41	322	4.98	<0.01
ZZ36653		1.44	43.1	3.91	4.80	0.05	0.04	0.09	0.039	0.06	8.2	23.7	0.48	564	2.54	<0.01
ZZ36654		2.34	28.7	2.48	5.59	<0.05	<0.02	0.30	0.034	0.07	10.1	13.5	0.33	210	6.03	<0.01
ZZ36655		2.09	27.8	3.72	5.94	<0.05	0.06	0.08	0.038	0.07	7.6	20.2	0.34	466	3.60	<0.01
ZZ36656		1.15	46.0	2.07	3.19	0.05	<0.02	0.26	0.028	0.08	8.5	6.4	0.13	105	7.44	<0.01
ZZ36657		1.78	24.9	3.70	4.32	<0.05	0.03	0.08	0.037	0.06	9.1	14.1	0.32	287	12.15	<0.01
ZZ36658		1.46	35.3	3.74	5.26	<0.05	0.04	0.07	0.035	0.07	7.5	17.3	0.37	655	4.01	<0.01
ZZ36659		1.42	39.2	3.97	3.99	0.05	0.05	0.39	0.038	0.08	10.7	19.6	0.46	949	8.19	<0.01
ZZ36660		0.45	8.4	0.90	1.72	<0.05	0.02	0.15	0.014	0.03	4.0	1.4	0.04	91	2.49	0.01
ZZ36661		0.40	16.5	1.85	1.54	<0.05	0.03	0.17	0.015	0.03	7.0	2.1	0.07	445	7.40	0.01
ZZ36662		0.79	46.5	5.35	2.62	0.08	0.06	0.34	0.031	0.07	12.6	6.1	0.16	599	18.95	<0.01
ZZ36663		0.56	40.2	3.13	3.61	0.05	0.04	0.20	0.031	0.07	9.1	17.3	0.53	407	3.03	<0.01
ZZ36664		1.19	35.0	3.32	2.75	0.05	0.06	0.18	0.039	0.06	11.3	8.9	0.23	518	4.32	0.01
ZZ36665		0.61	38.9	2.88	2.97	0.06	0.06	0.20	0.033	0.07	9.7	11.4	0.33	481	3.67	0.01
ZZ36666		0.76	42.3	2.72	3.32	0.05	0.05	0.19	0.028	0.05	10.4	13.2	0.34	369	2.44	0.01
ZZ36667		0.87	40.6	3.29	3.72	<0.05	0.05	0.19	0.032	0.08	10.1	17.5	0.65	521	2.34	0.01
ZZ36668		0.70	33.5	2.83	3.51	<0.05	0.06	0.17	0.030	0.06	8.1	15.7	0.39	388	1.85	0.01
ZZ36669		0.55	27.2	2.00	1.58	<0.05	0.05	0.11	0.029	0.04	3.7	4.8	0.20	183	2.01	<0.01
ZZ36670		1.42	32.3	3.11	2.43	0.08	0.07	0.08	0.042	0.08	3.8	11.1	0.24	291	2.65	<0.01
ZZ36671		0.87	32.6	3.59	3.82	0.10	0.09	0.08	0.037	0.07	6.1	36.7	0.47	1820	2.48	0.01
ZZ36672		0.67	33.6	4.23	3.09	0.11	0.08	0.13	0.031	0.05	7.2	14.2	0.28	1160	5.50	<0.01
ZZ36673		0.64	29.5	2.14	2.62	0.07	0.07	0.12	0.031	0.07	6.8	15.6	0.29	571	4.98	<0.01
ZZ36674		0.88	17.2	1.55	2.23	0.05	0.05	0.07	0.024	0.05	3.7	9.2	0.13	545	5.08	0.01
ZZ36675		1.16	16.8	0.88	3.24	<0.05	0.02	0.10	0.017	0.04	5.5	2.5	0.06	83	2.41	<0.01
ZZ36676		0.66	39.0	1.39	2.05	0.06	0.07	0.28	0.019	0.03	5.2	5.5	0.10	463	1.45	<0.01
ZZ36677		0.64	31.5	1.14	2.08	0.06	0.09	0.17	0.024	0.04	5.0	4.8	0.10	285	3.27	<0.01
ZZ36678		1.11	34.5	3.64	4.00	0.10	0.09	0.12	0.037	0.05	5.8	15.4	0.39	601	5.53	0.01
ZZ36679		1.49	20.9	3.15	3.73	0.09	0.06	0.06	0.035	0.06	6.1	17.8	0.31	481	3.60	<0.01
ZZ36680		2.51	24.2	2.74	3.16	0.08	0.04	0.04	0.032	0.05	5.3	15.8	0.28	704	2.56	<0.01
ZZ36681		2.35	26.6	3.17	3.74	0.08	0.05	0.04	0.033	0.06	4.4	15.4	0.29	606	2.43	<0.01
ZZ36682		1.04	39.0	3.05	3.52	0.08	0.08	0.09	0.037	0.07	4.0	21.3	0.38	328	2.05	<0.01
ZZ36683		1.36	35.5	3.46	3.45	0.11	0.07	0.10	0.033	0.07	9.4	17.6	0.38	483	3.52	<0.01
ZZ36684		1.48	42.8	3.95	4.56	0.11	0.08	0.10	0.038	0.11	6.5	34.5	0.60	495	1.47	<0.01
ZZ36685		1.28	61.9	2.52	3.75	0.09	0.09	0.18	0.044	0.09	4.7	24.8	0.42	1000	1.29	0.01
ZZ36686		0.91	36.8	4.40	4.02	0.11	0.08	0.09	0.038	0.08	6.2	26.0	0.44	6880	3.94	<0.01
ZZ36687		1.24	36.8	4.45	4.30	0.12	0.08	0.11	0.039	0.09	4.4	35.7	0.58	1290	2.00	0.01
ZZ36688		0.96	40.7	4.64	3.94	0.13	0.08	0.12	0.039	0.07	6.1	29.8	0.44	2520	2.34	0.01



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36649		0.45	25.8	1530	20.8	12.1	<0.001	0.08	0.72	1.5	1.3	0.5	9.9	<0.01	0.07	0.4
ZZ36650		0.33	23.3	1360	12.3	13.1	<0.001	0.06	1.10	0.8	1.6	0.7	18.1	<0.01	0.07	0.2
ZZ36651		0.33	22.3	1990	16.3	12.6	<0.001	0.10	2.27	0.7	2.8	0.6	28.6	<0.01	0.08	<0.2
ZZ36652		0.31	27.3	2070	16.9	11.7	0.002	0.11	2.79	0.9	4.7	0.6	42.8	<0.01	0.10	0.2
ZZ36653		0.34	27.7	1240	17.3	12.1	<0.001	0.06	1.05	4.4	1.6	0.4	11.1	<0.01	0.08	1.6
ZZ36654		0.26	27.6	2130	14.9	14.0	0.001	0.10	3.10	0.4	5.5	0.7	35.5	<0.01	0.07	<0.2
ZZ36655		0.56	26.7	1760	15.9	15.4	<0.001	0.06	1.72	3.0	2.2	0.6	17.2	<0.01	0.09	1.1
ZZ36656		0.17	18.3	3000	12.3	9.4	<0.001	0.15	2.22	0.3	7.3	0.6	56.8	<0.01	0.10	<0.2
ZZ36657		0.38	107.5	2720	11.1	11.6	0.001	0.06	1.40	2.8	3.8	0.5	43.6	<0.01	0.09	0.7
ZZ36658		0.30	24.4	1320	14.6	15.8	<0.001	0.06	0.91	2.5	1.1	0.4	13.0	<0.01	0.08	0.9
ZZ36659		0.33	86.9	1620	15.3	11.5	<0.001	0.05	1.65	4.8	3.1	0.5	39.3	<0.01	0.09	1.8
ZZ36660		0.43	11.1	1390	5.2	2.3	<0.001	0.22	0.40	1.2	1.8	0.3	25.7	<0.01	0.05	0.2
ZZ36661		0.32	92.9	1670	6.0	2.3	<0.001	0.21	1.65	0.8	3.3	0.3	32.1	<0.01	0.07	<0.2
ZZ36662		0.36	435	2820	10.8	6.2	0.003	0.14	5.27	3.4	10.1	0.4	84.0	<0.01	0.19	0.6
ZZ36663		0.41	65.9	1310	12.3	5.5	0.002	0.12	1.00	3.9	3.6	0.4	40.0	<0.01	0.08	0.8
ZZ36664		0.42	97.6	1600	15.7	7.5	0.004	0.13	1.08	3.7	4.1	0.4	37.1	<0.01	0.09	0.9
ZZ36665		0.43	99.0	1550	11.7	6.0	0.008	0.17	1.23	3.2	5.2	0.4	50.9	<0.01	0.08	0.8
ZZ36666		0.57	66.4	1410	10.3	6.9	0.003	0.15	1.02	2.9	4.2	0.4	30.9	<0.01	0.05	0.7
ZZ36667		0.52	59.1	1300	12.8	9.3	<0.001	0.10	0.75	3.9	2.4	0.4	34.6	<0.01	0.08	0.9
ZZ36668		0.52	50.7	1090	11.6	7.8	0.002	0.14	0.74	2.7	3.1	0.4	32.0	<0.01	0.06	0.6
ZZ36669		0.19	31.3	1340	9.9	4.5	0.004	0.19	1.00	2.3	4.3	0.3	50.4	<0.01	0.07	0.4
ZZ36670		0.11	47.8	1190	18.3	7.9	0.003	0.11	0.88	4.9	2.6	0.3	32.9	<0.01	0.05	1.7
ZZ36671		0.30	39.5	850	14.8	9.3	0.004	0.14	0.51	5.1	2.4	0.4	47.5	<0.01	0.05	1.7
ZZ36672		0.39	34.3	1300	13.0	7.7	0.005	0.14	1.53	3.9	3.6	0.4	44.4	0.01	0.10	1.2
ZZ36673		0.36	44.2	950	11.6	8.0	0.003	0.11	1.87	4.1	2.2	0.4	59.4	<0.01	0.08	1.6
ZZ36674		0.33	22.6	1090	9.0	7.2	0.002	0.16	1.91	2.1	2.1	0.4	81.3	<0.01	0.06	0.8
ZZ36675		0.27	10.9	760	10.6	7.0	0.002	0.06	1.16	1.9	1.8	0.6	34.8	<0.01	0.05	0.3
ZZ36676		0.37	29.2	1220	8.9	4.8	0.005	0.15	1.72	2.4	3.6	0.3	54.3	0.01	0.05	0.4
ZZ36677		0.33	28.4	1030	8.0	5.3	0.002	0.12	1.52	2.9	3.4	0.3	61.4	0.01	0.06	0.6
ZZ36678		0.34	61.2	1010	18.3	7.4	0.003	0.09	1.22	5.0	2.7	0.4	44.6	0.01	0.06	1.8
ZZ36679		0.50	40.2	780	14.4	11.0	0.001	0.06	0.69	4.2	1.7	0.5	27.2	<0.01	0.04	1.7
ZZ36680		0.47	29.1	460	17.2	8.3	0.001	0.04	0.65	4.0	1.4	0.4	20.8	<0.01	0.04	1.8
ZZ36681		0.47	25.7	440	18.3	8.8	0.001	0.04	0.68	4.0	1.1	0.5	26.2	<0.01	0.05	2.7
ZZ36682		0.24	32.9	880	13.1	10.0	0.004	0.13	0.62	4.1	2.6	0.4	43.8	<0.01	0.07	1.2
ZZ36683		0.71	37.5	970	12.6	11.6	0.001	0.06	0.82	4.4	2.3	0.4	43.3	<0.01	0.05	1.9
ZZ36684		0.19	44.5	840	19.3	9.3	0.001	0.03	0.56	6.5	1.2	0.4	28.2	<0.01	0.05	3.7
ZZ36685		0.22	45.4	950	17.7	11.5	0.007	0.24	0.58	5.0	5.3	0.4	67.4	<0.01	0.07	1.2
ZZ36686		0.26	60.7	690	15.4	9.9	0.002	0.07	0.63	5.0	2.4	0.4	44.7	<0.01	0.09	2.2
ZZ36687		0.21	46.7	800	17.3	10.6	0.004	0.11	0.40	5.2	3.0	0.4	42.8	<0.01	0.07	2.2
ZZ36688		0.28	47.1	770	18.6	10.5	0.004	0.15	0.30	5.8	5.0	0.4	46.5	<0.01	0.06	2.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36649		0.010	0.16	0.79	59	0.12	6.05	112	<0.5
ZZ36650		0.010	0.44	1.64	79	0.20	8.01	89	<0.5
ZZ36651		<0.005	0.47	1.74	125	0.10	6.03	96	<0.5
ZZ36652		0.009	0.67	3.02	209	0.19	6.42	101	<0.5
ZZ36653		<0.005	0.26	0.79	84	0.07	7.59	94	1.3
ZZ36654		0.005	0.79	3.67	264	0.23	10.10	91	<0.5
ZZ36655		0.006	0.34	1.67	133	0.12	5.79	105	1.1
ZZ36656		<0.005	0.30	5.05	103	0.16	14.30	74	<0.5
ZZ36657		0.007	0.33	3.12	80	0.22	17.15	637	0.9
ZZ36658		0.005	0.14	0.61	62	0.06	3.94	125	0.9
ZZ36659		0.008	0.32	2.50	67	0.15	21.4	866	1.2
ZZ36660		0.014	0.08	1.61	21	0.08	5.78	107	0.8
ZZ36661		0.008	0.17	4.86	41	0.12	20.1	553	0.9
ZZ36662		0.007	0.70	8.14	113	0.23	51.5	2330	1.6
ZZ36663		0.007	0.19	2.98	54	0.09	17.45	364	1.5
ZZ36664		0.005	0.48	3.13	62	0.08	26.5	464	1.4
ZZ36665		0.006	0.30	3.92	61	0.08	24.1	531	1.5
ZZ36666		0.008	0.23	4.56	54	0.12	23.4	328	1.6
ZZ36667		0.008	0.59	2.07	55	0.15	18.45	309	1.5
ZZ36668		0.008	0.33	2.19	46	0.09	13.50	357	1.4
ZZ36669		<0.005	0.13	2.35	33	<0.05	10.15	116	1.1
ZZ36670		<0.005	0.20	1.54	40	<0.05	11.10	169	1.7
ZZ36671		<0.005	0.12	1.93	33	0.06	11.35	122	2.3
ZZ36672		0.005	0.13	3.18	65	0.09	13.80	156	2.0
ZZ36673		0.007	0.44	1.77	72	0.10	11.95	149	2.1
ZZ36674		0.007	0.37	3.25	69	0.11	4.91	106	1.9
ZZ36675		0.011	0.35	4.78	55	0.09	9.70	54	0.5
ZZ36676		0.008	0.23	8.84	77	0.07	15.15	60	2.7
ZZ36677		0.007	0.28	5.90	45	0.07	15.50	102	3.0
ZZ36678		0.005	0.26	2.33	53	0.07	12.70	381	2.4
ZZ36679		0.010	0.25	1.22	37	0.10	6.93	336	1.6
ZZ36680		0.011	0.17	2.04	28	0.11	5.47	140	1.1
ZZ36681		0.009	0.13	1.61	29	0.12	4.95	133	1.5
ZZ36682		<0.005	0.11	2.34	33	0.05	8.50	145	2.2
ZZ36683		0.018	0.15	2.27	36	0.22	10.35	139	1.8
ZZ36684		<0.005	0.13	0.99	35	<0.05	10.80	142	2.4
ZZ36685		<0.005	0.18	3.78	32	0.05	12.25	127	2.6
ZZ36686		<0.005	0.14	1.50	35	0.06	10.45	189	2.1
ZZ36687		<0.005	0.12	1.80	31	<0.05	10.80	164	2.1
ZZ36688		<0.005	0.13	2.62	36	0.06	12.60	156	2.3



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36689		0.23	0.005	0.16	1.34	87.9	<0.2	<10	350	1.03	0.22	1.77	1.72	10.90	13.5	25
ZZ36690		0.17	0.005	0.19	1.16	17.7	<0.2	<10	280	0.79	0.19	2.12	0.61	9.10	9.6	19
ZZ36691		0.22	0.005	0.21	1.18	17.0	<0.2	<10	280	0.88	0.19	1.97	0.49	10.00	8.7	20
ZZ36692		0.28	0.002	0.20	1.34	31.7	<0.2	<10	250	1.02	0.23	1.14	0.47	14.95	10.0	22
ZZ36693		0.21	0.007	0.22	1.12	17.1	<0.2	<10	260	0.75	0.19	2.19	0.52	10.25	9.1	18
ZZ36694		0.19	<0.001	0.17	0.85	14.1	<0.2	10	350	0.56	0.14	3.45	0.50	7.53	6.7	13
ZZ36695		0.21	0.006	0.20	1.36	34.2	<0.2	<10	310	0.74	0.21	1.54	0.56	15.20	13.5	22
ZZ36696		0.25	0.003	0.19	1.26	15.8	<0.2	<10	320	0.81	0.20	1.27	0.54	12.55	9.5	20
ZZ36697		0.20	0.009	0.21	0.98	32.2	<0.2	<10	390	0.94	0.19	1.32	0.85	8.30	23.8	16
ZZ36698		0.22	0.003	0.21	1.59	15.8	<0.2	<10	350	1.10	0.29	0.46	0.48	12.45	13.7	26
ZZ36699		0.22	0.001	0.11	1.55	16.9	<0.2	<10	270	0.83	0.27	0.55	0.22	27.4	10.0	25
ZZ36700		0.19	0.005	0.52	1.43	36.6	<0.2	<10	450	1.09	0.22	1.82	1.36	30.2	15.2	25
ZZ36701		0.34	0.004	0.24	1.45	21.4	<0.2	<10	260	0.84	0.25	0.66	0.22	22.7	11.1	25
ZZ36702		0.34	0.002	0.15	1.38	16.3	<0.2	<10	220	0.91	0.28	0.57	0.31	16.00	14.0	24
ZZ36703		0.30	0.010	0.15	0.94	13.8	<0.2	<10	260	0.83	0.30	0.84	0.31	9.65	16.3	19
ZZ36704		0.28	0.004	0.20	1.31	17.1	<0.2	<10	200	0.71	0.21	0.53	0.39	24.3	13.9	22
ZZ36705		0.32	0.004	0.36	1.30	15.0	<0.2	<10	440	1.01	0.23	0.85	0.92	14.50	14.8	23
ZZ36706		0.29	0.004	0.23	1.35	18.2	<0.2	<10	450	0.72	0.20	1.65	0.60	17.60	8.6	24
ZZ36707		0.22	0.003	0.18	1.23	25.9	<0.2	<10	320	0.59	0.22	1.46	0.47	17.50	9.9	22
ZZ36708		0.38	0.006	0.20	1.62	14.7	<0.2	<10	280	0.86	0.27	0.86	0.25	22.8	12.6	27
ZZ36709		0.24	0.004	0.11	1.59	13.4	<0.2	<10	250	0.84	0.27	0.73	0.27	23.0	17.3	26
ZZ36710		0.28	0.002	0.16	1.54	13.3	<0.2	<10	240	0.79	0.27	1.13	0.33	23.0	15.7	25
ZZ36711		0.29	0.002	0.11	1.59	10.9	<0.2	<10	230	0.97	0.25	0.99	0.18	19.15	16.9	25
ZZ36712		0.24	0.003	0.10	1.36	10.9	<0.2	<10	290	0.85	0.25	1.60	0.23	11.00	14.0	22
ZZ36713		0.24	0.005	0.28	1.28	10.8	<0.2	<10	530	0.75	0.22	1.87	0.36	15.60	13.0	21
ZZ36714		0.26	0.002	0.36	1.58	14.8	<0.2	<10	560	0.89	0.26	2.36	0.38	18.00	15.2	26
ZZ36715		0.22	0.004	0.40	1.55	13.1	<0.2	<10	930	0.91	0.23	2.71	0.33	17.05	15.3	25
ZZ36716		0.19	0.006	0.42	0.55	9.6	<0.2	<10	460	0.36	0.12	5.88	1.62	7.10	4.3	12
ZZ36717		0.21	0.007	0.14	0.57	3.8	<0.2	<10	170	0.33	0.10	6.49	4.00	7.24	3.7	12
ZZ36718		0.25	0.004	0.95	0.73	33.9	<0.2	10	870	1.03	0.24	3.80	0.72	4.96	7.5	27
ZZ36719		0.27	0.004	0.86	0.94	117.0	<0.2	10	420	0.77	0.26	1.59	0.81	12.55	9.0	29
ZZ36720		0.18	0.007	0.77	0.52	356	<0.2	10	300	0.53	0.15	3.67	0.78	4.46	3.8	20
ZZ50201		0.19	0.002	0.21	0.52	26.6	<0.2	<10	70	0.51	0.27	0.08	0.24	26.9	14.0	13
ZZ50202		0.23	0.004	1.00	0.15	20.9	<0.2	<10	100	0.50	0.19	5.35	1.16	17.75	13.5	4
ZZ50203		0.22	0.010	0.91	0.21	18.4	<0.2	<10	100	0.63	0.22	2.33	1.62	18.00	14.0	5
ZZ50204		0.20	0.009	0.78	0.31	13.9	<0.2	<10	100	0.73	0.25	1.07	0.76	19.35	17.0	6
ZZ50205		0.19	0.009	0.91	0.29	19.1	<0.2	<10	140	0.74	0.27	1.43	1.27	23.2	20.7	7
ZZ50206		0.22	0.014	0.79	0.28	23.0	<0.2	<10	150	0.75	0.25	1.41	1.42	21.1	14.7	7
ZZ50207		0.19	0.002	0.15	1.34	8.3	<0.2	<10	250	0.28	0.29	0.06	0.20	19.15	4.6	23
ZZ50208		0.18	0.002	0.26	1.29	24.3	<0.2	<10	190	0.38	0.27	0.06	0.39	15.65	7.7	35

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36689		0.79	48.5	6.23	3.58	0.15	0.07	0.13	0.036	0.06	5.2	21.3	0.52	1130	4.35	0.01
ZZ36690		0.67	30.4	2.81	3.22	0.09	0.07	0.12	0.031	0.08	4.3	25.1	0.42	1310	1.91	0.01
ZZ36691		0.75	37.2	2.81	3.25	0.09	0.06	0.13	0.033	0.07	5.2	25.8	0.40	464	2.34	0.01
ZZ36692		0.85	39.6	3.61	3.75	0.11	0.08	0.15	0.038	0.08	6.8	30.5	0.44	377	3.26	0.01
ZZ36693		0.72	32.6	2.61	3.06	0.08	0.05	0.11	0.030	0.07	5.0	21.6	0.38	581	1.99	<0.01
ZZ36694		0.62	27.5	1.99	2.22	0.07	0.05	0.12	0.023	0.05	3.8	12.9	0.27	755	1.54	0.01
ZZ36695		0.85	40.7	4.05	4.02	0.11	0.07	0.15	0.035	0.07	7.5	24.2	0.60	1260	2.10	0.01
ZZ36696		0.92	36.2	2.09	3.55	0.08	0.07	0.14	0.031	0.06	5.9	23.7	0.38	194	1.48	0.01
ZZ36697		0.93	43.2	12.60	2.63	0.26	0.07	0.11	0.029	0.05	4.0	11.6	0.25	1560	4.86	<0.01
ZZ36698		1.43	30.0	3.69	4.57	0.10	0.05	0.13	0.043	0.09	5.6	31.8	0.32	895	1.72	0.01
ZZ36699		1.20	29.2	3.07	5.47	0.10	0.05	0.07	0.035	0.05	11.7	34.8	0.38	273	1.50	<0.01
ZZ36700		0.82	58.9	2.81	3.74	0.12	0.07	0.49	0.034	0.05	17.8	22.2	0.43	1270	1.48	<0.01
ZZ36701		0.68	46.1	3.59	4.36	0.11	0.08	0.12	0.036	0.08	10.8	30.3	0.60	330	1.33	<0.01
ZZ36702		0.84	56.9	4.14	4.21	0.12	0.08	0.10	0.044	0.10	6.7	27.7	0.55	284	1.42	<0.01
ZZ36703		0.70	39.9	4.18	2.95	0.10	0.06	0.08	0.044	0.09	3.8	14.1	0.26	511	1.46	<0.01
ZZ36704		0.70	51.6	3.58	3.85	0.13	0.09	0.11	0.029	0.05	11.6	30.5	0.68	526	1.01	<0.01
ZZ36705		0.79	35.4	3.46	3.53	0.11	0.07	0.10	0.040	0.06	6.8	28.5	0.45	216	2.12	<0.01
ZZ36706		0.55	38.7	2.23	4.14	<0.05	0.06	0.16	0.031	0.05	9.2	20.6	0.67	210	0.82	<0.01
ZZ36707		0.62	34.1	2.74	4.03	<0.05	0.04	0.17	0.030	0.05	9.2	22.7	0.49	420	1.17	<0.01
ZZ36708		0.72	66.9	3.61	4.88	0.05	0.07	0.13	0.033	0.08	13.1	27.6	0.74	368	1.04	<0.01
ZZ36709		0.60	43.9	3.73	4.74	<0.05	0.07	0.07	0.033	0.06	11.3	28.3	0.76	526	1.06	<0.01
ZZ36710		0.56	46.4	3.56	4.69	0.05	0.06	0.10	0.030	0.08	11.9	30.2	0.70	622	0.93	<0.01
ZZ36711		0.47	33.5	3.49	4.77	<0.05	0.06	0.05	0.031	0.08	8.3	31.2	0.62	744	0.82	<0.01
ZZ36712		0.52	33.1	3.45	4.22	<0.05	0.05	0.06	0.034	0.08	4.8	24.1	0.45	513	1.71	<0.01
ZZ36713		0.62	40.9	2.74	3.99	<0.05	0.06	0.10	0.029	0.07	7.4	22.9	0.50	480	1.78	<0.01
ZZ36714		0.74	67.7	3.57	4.50	<0.05	0.07	0.16	0.031	0.10	9.3	27.4	0.78	494	2.75	<0.01
ZZ36715		0.87	60.7	3.21	4.48	<0.05	0.07	0.16	0.031	0.09	9.8	24.8	0.64	662	2.09	<0.01
ZZ36716		0.47	18.6	0.99	1.45	<0.05	0.02	0.15	0.015	0.04	12.9	3.6	0.13	339	1.53	<0.01
ZZ36717		0.29	11.2	0.77	1.25	<0.05	0.02	0.09	0.012	0.02	13.6	1.9	0.07	309	0.96	<0.01
ZZ36718		0.97	33.3	2.19	2.30	<0.05	0.06	0.39	0.038	0.08	5.1	4.1	0.09	121	2.10	<0.01
ZZ36719		0.36	31.4	2.57	2.93	<0.05	0.05	0.24	0.036	0.15	9.2	7.8	0.20	328	5.12	<0.01
ZZ36720		0.77	20.5	1.71	1.51	<0.05	0.03	0.17	0.024	0.07	4.3	2.4	0.07	197	1.70	<0.01
ZZ50201		1.30	46.5	4.29	2.09	<0.05	<0.02	0.20	0.041	0.07	15.0	2.2	0.06	185	4.19	<0.01
ZZ50202		1.40	49.3	2.97	0.47	0.05	0.33	0.17	0.041	0.07	6.9	1.1	1.20	214	10.00	<0.01
ZZ50203		1.10	78.3	3.57	0.60	0.06	0.14	0.17	0.042	0.07	7.5	1.1	0.83	370	7.60	<0.01
ZZ50204		1.81	64.4	3.93	0.80	0.06	0.06	0.16	0.048	0.09	10.3	1.7	0.10	275	5.05	<0.01
ZZ50205		1.49	81.3	4.25	0.83	0.06	0.06	0.16	0.045	0.12	11.0	1.4	0.34	308	7.94	<0.01
ZZ50206		0.65	73.8	3.48	0.79	0.05	0.06	0.16	0.043	0.08	9.4	1.4	0.33	240	9.83	<0.01
ZZ50207		1.87	12.0	2.00	6.60	<0.05	<0.02	0.03	0.024	0.05	10.5	7.0	0.16	208	1.84	<0.01
ZZ50208		0.98	14.3	4.64	4.49	<0.05	<0.02	0.09	0.038	0.03	4.5	7.0	0.12	525	1.88	<0.01

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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ36689	0.29	37.5	910	16.1	8.6	0.011	0.25	0.50	4.3	7.7	0.3	58.2	<0.01	0.11	1.5	
ZZ36690	0.24	34.6	870	11.8	12.9	0.008	0.23	0.51	3.7	4.8	0.3	67.3	<0.01	0.06	1.0	
ZZ36691	0.28	32.1	810	12.0	10.1	0.004	0.18	0.57	3.7	4.5	0.4	58.4	<0.01	0.06	0.9	
ZZ36692	0.33	33.4	830	16.2	11.2	0.003	0.13	0.59	5.0	5.0	0.4	39.3	<0.01	0.06	1.7	
ZZ36693	0.29	31.6	820	11.9	9.2	0.002	0.14	0.58	3.1	4.0	0.3	64.8	<0.01	0.06	0.7	
ZZ36694	0.27	22.3	900	8.4	8.0	0.001	0.17	0.59	1.9	4.0	0.3	94.7	<0.01	0.05	0.4	
ZZ36695	0.28	35.7	880	14.6	8.3	0.003	0.13	0.57	5.2	3.2	0.4	54.0	<0.01	0.07	1.9	
ZZ36696	0.35	30.1	720	13.5	11.0	0.004	0.40	0.43	4.9	3.8	0.4	47.4	<0.01	0.03	2.0	
ZZ36697	0.36	35.5	1030	12.0	8.3	0.006	0.19	0.72	5.0	3.9	0.3	50.6	0.01	0.09	1.8	
ZZ36698	0.26	31.6	890	19.5	14.7	0.002	0.09	0.35	6.8	2.3	0.5	24.4	<0.01	0.05	2.5	
ZZ36699	0.56	22.1	580	20.1	9.9	0.001	0.03	0.33	3.8	1.0	0.5	24.4	<0.01	0.06	2.5	
ZZ36700	0.51	31.7	1510	16.4	6.7	0.001	0.09	0.73	4.4	2.7	0.3	65.5	0.01	0.07	0.9	
ZZ36701	0.34	33.0	580	16.2	7.2	0.001	0.04	0.54	6.6	1.2	0.4	33.2	<0.01	0.06	3.3	
ZZ36702	0.18	45.7	600	17.9	7.6	0.001	0.05	0.51	6.7	1.0	0.4	34.3	<0.01	0.08	3.4	
ZZ36703	0.14	40.7	610	20.3	8.5	0.001	0.07	0.45	5.5	1.1	0.5	43.2	<0.01	0.07	2.7	
ZZ36704	0.22	33.1	730	17.5	4.9	<0.001	0.04	0.52	6.9	1.1	0.3	28.9	0.01	0.05	3.6	
ZZ36705	0.22	39.5	1050	16.7	6.9	0.002	0.06	0.64	6.0	2.3	0.4	47.5	<0.01	0.06	2.6	
ZZ36706	0.31	26.5	730	13.7	5.5	0.002	0.14	0.73	4.7	1.4	0.4	61.4	<0.01	0.05	1.5	
ZZ36707	0.49	23.4	510	14.8	6.3	0.001	0.04	0.65	4.2	1.1	0.4	47.2	<0.01	0.05	1.1	
ZZ36708	0.28	31.0	600	14.5	6.6	0.001	0.02	0.52	8.1	1.0	0.4	33.5	<0.01	0.07	2.9	
ZZ36709	0.21	31.4	460	15.1	5.3	<0.001	0.02	0.49	6.2	0.8	0.4	26.7	<0.01	0.04	2.7	
ZZ36710	0.29	31.7	670	14.4	5.8	<0.001	0.03	0.52	6.2	0.8	0.4	41.8	<0.01	0.05	2.3	
ZZ36711	0.26	33.5	670	15.5	7.5	<0.001	0.03	0.32	5.7	0.8	0.5	34.6	<0.01	0.04	2.6	
ZZ36712	0.22	35.4	620	15.8	7.8	0.003	0.06	0.39	4.7	1.2	0.5	30.5	<0.01	0.04	1.8	
ZZ36713	0.28	33.2	600	11.8	7.0	0.006	0.07	0.53	4.6	2.0	0.4	41.4	<0.01	0.05	1.4	
ZZ36714	0.17	37.7	550	13.5	5.8	0.003	0.06	0.70	5.8	1.6	0.4	42.4	<0.01	0.06	1.6	
ZZ36715	0.17	36.6	570	12.5	6.9	0.003	0.06	0.63	5.1	1.8	0.4	67.7	<0.01	0.06	1.2	
ZZ36716	0.20	22.6	920	6.6	4.5	0.004	0.13	0.36	0.7	4.0	0.3	57.6	<0.01	0.03	0.2	
ZZ36717	0.25	8.9	1210	5.4	2.0	<0.001	0.15	0.27	0.4	1.3	0.3	49.9	<0.01	0.02	<0.2	
ZZ36718	0.16	45.3	610	10.3	8.4	0.002	0.07	0.65	2.8	2.9	0.6	37.4	<0.01	0.06	0.5	
ZZ36719	0.22	52.6	440	15.6	7.9	0.001	0.05	0.88	6.8	3.1	0.6	30.7	<0.01	0.06	2.2	
ZZ36720	0.13	25.9	590	6.8	6.0	0.003	0.12	0.48	2.3	2.6	0.4	33.3	<0.01	0.03	0.2	
ZZ50201	0.07	35.2	1750	22.5	9.4	0.001	0.04	1.27	1.0	1.0	0.5	6.9	<0.01	0.05	0.2	
ZZ50202	<0.05	43.7	990	22.6	3.2	0.007	0.46	3.30	7.1	2.3	0.2	114.0	<0.01	0.02	3.5	
ZZ50203	0.05	40.0	1710	24.7	3.5	0.006	0.46	2.60	7.2	2.9	0.3	44.7	<0.01	0.08	3.5	
ZZ50204	0.08	43.8	1610	26.0	5.5	0.002	0.09	2.04	6.8	2.4	0.3	38.8	<0.01	0.07	1.7	
ZZ50205	0.08	51.7	1970	28.5	5.7	0.002	0.22	2.75	8.1	2.4	0.4	52.2	<0.01	0.08	3.0	
ZZ50206	0.06	47.2	1350	23.2	3.9	0.002	0.04	2.58	7.7	2.4	0.3	59.0	<0.01	0.06	2.8	
ZZ50207	0.23	11.4	1400	8.7	12.7	<0.001	0.05	0.60	0.3	0.8	0.9	10.3	<0.01	0.04	<0.2	
ZZ50208	0.61	15.7	1570	26.5	6.0	0.001	0.06	0.71	0.9	2.1	0.4	9.1	<0.01	0.10	0.2	

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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36689		<0.005	0.10	2.51	86	0.07	10.65	158	2.2
ZZ36690		<0.005	0.10	2.13	29	0.05	9.01	160	1.9
ZZ36691		<0.005	0.11	4.19	29	0.06	10.10	152	1.6
ZZ36692		<0.005	0.12	3.52	43	0.06	10.90	164	1.9
ZZ36693		<0.005	0.10	2.57	28	0.06	9.12	125	1.4
ZZ36694		<0.005	0.09	2.49	21	0.05	7.31	93	1.2
ZZ36695		<0.005	0.11	1.65	39	0.06	12.20	139	1.9
ZZ36696		<0.005	0.13	3.50	32	0.05	10.25	105	2.2
ZZ36697		<0.005	0.10	1.94	27	0.07	10.80	141	1.9
ZZ36698		<0.005	0.18	1.44	39	0.05	9.61	110	1.1
ZZ36699		0.009	0.14	1.25	53	0.13	7.10	64	1.3
ZZ36700		0.013	0.13	4.12	37	0.13	27.8	99	1.4
ZZ36701		0.005	0.12	0.76	42	0.09	12.60	99	1.9
ZZ36702		<0.005	0.11	0.65	39	<0.05	10.15	139	2.0
ZZ36703		<0.005	0.12	0.59	34	<0.05	7.97	113	1.7
ZZ36704		0.006	0.09	0.83	38	0.05	15.95	96	2.7
ZZ36705		<0.005	0.14	2.15	46	0.06	12.65	166	1.8
ZZ36706		<0.005	0.14	1.35	49	0.06	11.80	95	1.9
ZZ36707		0.010	0.13	0.80	43	0.08	9.34	98	1.3
ZZ36708		0.007	0.09	0.85	44	<0.05	14.40	94	2.1
ZZ36709		0.006	0.08	0.66	44	<0.05	9.02	91	2.0
ZZ36710		0.007	0.08	0.65	38	0.05	10.50	89	2.0
ZZ36711		<0.005	0.07	0.39	36	<0.05	9.99	84	1.9
ZZ36712		<0.005	0.07	0.71	31	<0.05	8.03	97	1.6
ZZ36713		0.005	0.09	1.11	36	<0.05	9.18	99	1.9
ZZ36714		<0.005	0.10	0.79	43	0.06	13.60	106	2.3
ZZ36715		<0.005	0.10	1.85	43	0.05	17.35	92	2.4
ZZ36716		0.005	0.09	2.72	16	<0.05	24.8	141	0.9
ZZ36717		0.007	0.04	1.81	13	<0.05	26.2	170	0.5
ZZ36718		<0.005	0.15	0.95	37	<0.05	15.80	153	1.9
ZZ36719		<0.005	0.14	1.06	49	0.09	22.8	189	1.9
ZZ36720		<0.005	0.12	1.78	30	0.08	16.35	116	1.2
ZZ50201		<0.005	0.13	0.67	29	0.06	5.26	130	<0.5
ZZ50202		<0.005	0.22	1.90	23	<0.05	16.15	198	18.1
ZZ50203		<0.005	0.18	1.61	19	<0.05	19.00	208	8.7
ZZ50204		<0.005	0.16	1.30	16	<0.05	16.50	160	2.8
ZZ50205		<0.005	0.19	1.53	24	<0.05	19.20	230	3.4
ZZ50206		<0.005	0.14	1.29	27	<0.05	19.75	234	3.4
ZZ50207		0.008	0.21	0.67	54	0.13	2.71	49	<0.5
ZZ50208		0.013	0.13	0.75	60	0.09	2.89	68	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50209		0.19	0.005	0.24	0.53	21.2	<0.2	<10	200	0.57	0.26	0.77	0.56	29.7	13.9	10
ZZ50210		0.22	0.004	0.40	1.59	14.6	<0.2	<10	3550	0.85	0.24	0.42	0.67	26.5	11.0	28
ZZ50211		0.19	0.010	0.34	0.97	18.6	<0.2	<10	240	0.36	0.28	0.06	0.59	13.15	4.7	21
ZZ50212		0.22	0.007	6.48	1.45	53.6	<0.2	<10	2500	1.65	0.27	1.22	18.80	18.80	14.0	79
ZZ50213		0.22	0.006	1.71	1.23	27.7	<0.2	<10	2160	1.27	0.22	0.75	8.68	20.4	13.2	36
ZZ50214		0.20	0.005	2.14	1.67	41.9	<0.2	<10	3330	2.10	0.24	1.06	20.1	16.70	23.7	44
ZZ50215		0.20	0.002	0.45	1.32	16.2	<0.2	<10	1730	0.77	0.26	0.45	1.81	14.75	8.1	25
ZZ50216		0.22	0.004	0.88	0.83	13.3	<0.2	<10	1640	0.67	0.19	1.55	6.88	16.70	8.8	24
ZZ50217		0.20	0.004	0.14	0.51	9.3	<0.2	<10	480	0.51	0.28	1.49	2.46	5.94	7.2	10
ZZ50218		0.22	0.003	0.36	0.82	13.7	<0.2	<10	810	0.71	0.33	1.40	3.85	11.50	12.5	19
ZZ50219		0.22	0.003	0.19	0.60	10.6	<0.2	<10	700	0.73	0.34	0.80	0.95	7.89	9.7	9
ZZ50220		0.25	0.002	0.09	0.45	14.4	<0.2	<10	260	0.86	0.36	0.29	0.19	8.24	19.7	5
ZZ50221		0.20	0.003	0.95	1.09	18.2	<0.2	<10	1830	0.77	0.24	1.64	11.35	17.15	20.3	30
ZZ50222		0.19	0.004	0.38	0.71	12.9	<0.2	<10	590	0.30	0.20	0.22	1.02	8.70	7.0	22
ZZ50223		0.23	0.002	0.28	1.17	10.6	<0.2	<10	830	1.13	0.37	0.94	3.17	9.55	20.5	20
ZZ50224		0.20	0.007	4.36	0.80	19.4	<0.2	<10	1480	0.83	0.30	1.64	6.99	11.65	10.1	38
ZZ50225		0.20	0.003	1.69	0.69	16.2	<0.2	<10	1130	0.72	0.28	0.67	3.60	10.45	11.4	25
ZZ50226		0.20	0.001	0.05	1.01	17.4	<0.2	<10	160	0.34	0.28	0.03	0.31	15.30	7.7	16
ZZ50227		0.14	0.004	0.33	1.29	16.6	<0.2	<10	700	0.74	0.22	1.96	0.96	15.15	11.8	24
ZZ50228		0.14	0.002	0.18	1.66	14.8	<0.2	<10	980	0.75	0.23	1.21	1.53	19.20	13.5	38
ZZ50229		0.12	0.008	0.43	0.87	8.9	<0.2	<10	1030	0.46	0.17	3.75	1.40	10.85	8.5	18
ZZ50230		0.26	0.002	0.16	0.68	13.8	<0.2	<10	650	0.81	0.30	0.52	1.21	5.74	13.0	9
ZZ50231		0.30	0.004	0.22	1.92	15.9	<0.2	<10	310	0.84	0.28	0.48	0.36	32.9	18.2	30
ZZ50232		0.24	0.003	0.23	1.91	11.9	<0.2	<10	460	0.81	0.26	1.02	0.60	27.7	17.1	31
ZZ50233		0.22	0.002	0.16	1.73	18.6	<0.2	<10	340	0.80	0.26	0.69	0.25	28.1	15.2	28
ZZ50234		0.16	0.004	0.19	1.43	13.3	<0.2	<10	430	0.66	0.21	2.12	0.44	20.4	11.2	22
ZZ50235		0.15	0.007	0.37	1.05	12.1	<0.2	<10	820	0.59	0.16	2.90	0.39	11.95	8.0	19
ZZ50236		0.25	0.002	0.13	1.77	12.1	<0.2	<10	450	0.64	0.23	1.03	0.26	28.0	19.2	28
ZZ50237		0.14	0.003	0.07	1.33	7.7	<0.2	<10	580	0.36	0.19	2.03	0.32	15.80	8.9	22
ZZ50238		0.22	0.003	0.11	1.53	20.8	<0.2	<10	230	0.59	0.24	0.59	0.26	24.0	10.5	26
ZZ50239		0.19	0.003	0.16	1.38	382	<0.2	<10	3420	0.83	0.19	5.12	1.17	17.05	13.5	30
ZZ50240		0.17	0.003	0.16	1.41	6.0	<0.2	<10	320	0.60	0.17	1.32	0.62	25.2	8.5	26
ZZ50241		0.20	0.002	0.06	2.22	14.9	<0.2	<10	250	1.06	0.29	0.15	0.21	43.6	24.6	35
ZZ50242		0.22	0.004	0.17	2.17	20.3	<0.2	<10	200	0.93	0.30	1.56	0.30	33.8	27.1	33
ZZ50243		0.24	0.003	0.15	1.96	11.1	<0.2	<10	240	0.81	0.28	0.76	0.29	32.1	20.9	31
ZZ50244		0.22	0.002	0.25	1.06	22.3	<0.2	<10	470	0.81	0.25	0.66	0.79	16.60	18.2	22
ZZ50245		0.21	0.003	0.27	1.27	17.9	<0.2	<10	640	0.73	0.24	0.53	0.76	17.80	18.2	25
ZZ50246		0.15	0.003	0.28	1.29	18.0	<0.2	<10	560	0.78	0.25	0.86	1.05	16.40	14.7	24
ZZ50247		0.14	0.002	0.04	1.61	10.0	<0.2	<10	260	0.43	0.27	0.11	0.31	26.6	5.6	26
ZZ50248		0.17	0.003	0.20	2.10	18.9	<0.2	<10	440	0.86	0.27	0.61	0.65	38.0	14.5	32

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50209		0.69	67.2	3.59	2.02	<0.05	0.02	0.09	0.044	0.06	14.2	5.5	0.07	182	8.45	<0.01
ZZ50210		0.97	19.3	2.98	4.63	<0.05	0.04	0.07	0.029	0.05	16.1	15.7	0.41	439	4.05	<0.01
ZZ50211		1.51	19.1	2.36	5.25	<0.05	<0.02	0.11	0.028	0.05	7.0	4.4	0.11	168	6.20	<0.01
ZZ50212		1.06	105.5	4.88	3.80	0.09	0.07	0.46	0.057	0.08	15.8	7.7	0.16	314	23.1	<0.01
ZZ50213		0.76	66.4	3.89	2.97	0.08	0.04	0.28	0.036	0.07	14.8	9.3	0.26	241	17.10	<0.01
ZZ50214		0.78	85.9	5.96	2.90	0.07	0.09	0.64	0.043	0.06	14.2	7.0	0.14	269	24.3	<0.01
ZZ50215		1.16	23.3	2.72	4.94	<0.05	<0.02	0.05	0.034	0.06	8.1	9.0	0.18	408	6.85	<0.01
ZZ50216		0.44	36.0	2.38	2.30	0.06	0.05	0.08	0.029	0.07	11.4	6.7	0.22	262	5.36	<0.01
ZZ50217		0.65	20.0	2.52	1.50	<0.05	0.05	0.06	0.033	0.07	3.8	3.4	0.08	157	2.37	<0.01
ZZ50218		0.63	28.4	3.18	2.51	<0.05	0.05	0.11	0.042	0.07	8.9	5.3	0.13	279	3.50	<0.01
ZZ50219		1.21	24.0	2.92	1.47	<0.05	0.03	0.05	0.045	0.09	4.6	4.7	0.10	252	2.19	<0.01
ZZ50220		2.98	23.9	3.33	1.05	<0.05	0.03	0.05	0.042	0.10	2.9	3.7	0.06	429	1.80	<0.01
ZZ50221		0.87	34.0	3.54	3.00	0.06	0.03	0.12	0.039	0.06	14.7	6.9	0.14	706	7.10	<0.01
ZZ50222		1.01	17.5	2.10	3.05	<0.05	<0.02	0.04	0.022	0.05	5.3	3.0	0.06	173	6.71	0.01
ZZ50223		1.84	43.1	3.29	3.31	<0.05	0.03	0.07	0.049	0.07	5.2	10.7	0.31	461	1.62	0.02
ZZ50224		0.68	62.6	2.60	2.42	0.07	0.06	0.42	0.055	0.08	9.2	4.0	0.06	177	11.15	0.01
ZZ50225		0.55	37.4	2.89	2.09	0.05	0.04	0.18	0.047	0.10	6.3	4.3	0.06	287	9.46	0.01
ZZ50226		0.89	21.7	3.10	4.13	<0.05	0.02	0.04	0.028	0.06	6.7	7.7	0.18	195	2.89	0.01
ZZ50227		0.39	30.2	2.92	3.82	0.05	0.05	0.15	0.034	0.08	10.2	14.4	0.38	521	3.69	0.01
ZZ50228		0.82	27.3	3.28	4.70	0.05	0.05	0.09	0.035	0.05	12.8	15.3	0.36	324	5.02	0.01
ZZ50229		0.49	22.2	1.64	2.53	<0.05	0.04	0.11	0.022	0.05	10.4	6.6	0.19	451	7.06	0.02
ZZ50230		0.94	32.8	3.50	1.64	<0.05	0.04	0.07	0.043	0.07	2.9	3.6	0.07	353	2.02	0.01
ZZ50231		1.24	79.6	4.43	5.73	0.05	0.11	0.12	0.035	0.12	14.6	37.1	0.90	535	1.24	0.01
ZZ50232		0.86	70.3	4.04	5.71	0.05	0.09	0.14	0.035	0.10	12.2	34.6	0.86	577	1.13	0.01
ZZ50233		0.88	47.7	3.92	5.53	<0.05	0.07	0.05	0.032	0.08	12.0	37.0	0.76	411	1.32	0.01
ZZ50234		0.73	50.8	3.02	4.34	<0.05	0.06	0.17	0.027	0.07	8.7	25.5	0.62	130	0.72	0.01
ZZ50235		0.52	43.2	2.28	2.97	<0.05	0.05	0.14	0.023	0.05	5.6	13.5	0.38	1860	1.30	0.02
ZZ50236		0.65	41.7	4.07	5.53	<0.05	0.06	0.05	0.032	0.07	11.0	34.8	0.87	650	1.04	0.01
ZZ50237		0.56	21.2	2.43	3.61	<0.05	0.05	0.08	0.019	0.05	6.9	16.8	0.52	492	0.58	0.02
ZZ50238		0.93	30.5	3.22	4.67	0.05	0.05	0.05	0.027	0.05	10.1	24.0	0.57	336	1.50	0.01
ZZ50239		3.26	42.3	3.84	4.32	0.06	0.08	0.18	0.030	0.09	15.9	21.4	0.44	351	1.49	0.01
ZZ50240		0.73	34.1	2.16	4.53	<0.05	0.05	0.12	0.025	0.06	12.3	21.6	0.63	200	0.33	0.01
ZZ50241		1.33	92.8	5.01	7.09	0.07	0.06	0.15	0.043	0.09	19.9	37.6	1.04	736	0.91	0.01
ZZ50242		2.05	104.0	5.17	6.93	0.07	0.15	0.13	0.038	0.15	15.4	40.7	1.29	795	0.98	0.01
ZZ50243		1.21	80.6	4.12	5.93	0.05	0.10	0.13	0.032	0.12	14.7	36.6	0.99	474	0.74	0.01
ZZ50244		1.22	47.0	3.97	3.35	<0.05	0.05	0.17	0.038	0.08	6.9	19.2	0.47	566	2.75	0.01
ZZ50245		0.90	43.5	4.18	4.05	0.05	0.05	0.13	0.038	0.07	7.4	21.5	0.52	413	3.62	0.01
ZZ50246		0.84	47.9	3.62	3.69	<0.05	0.06	0.15	0.035	0.08	6.9	20.3	0.47	449	3.42	0.01
ZZ50247		1.09	9.3	3.09	6.58	<0.05	<0.02	0.02	0.028	0.05	12.6	24.5	0.28	187	1.59	0.01
ZZ50248		1.24	28.7	4.30	6.61	0.05	0.04	0.08	0.040	0.06	15.8	23.7	0.47	1040	1.53	0.01





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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50209		0.24	42.6	1030	20.1	7.7	0.002	0.02	3.22	3.2	1.6	0.5	34.2	<0.01	0.05	1.1
ZZ50210		0.79	34.2	900	11.8	7.5	<0.001	0.04	1.06	4.3	1.1	0.5	26.8	<0.01	0.05	2.3
ZZ50211		0.45	19.4	1310	10.8	7.9	<0.001	0.10	1.10	0.6	1.0	0.7	17.6	<0.01	0.07	<0.2
ZZ50212		0.36	187.5	4000	13.1	8.6	0.001	0.11	6.27	7.1	7.5	0.8	185.0	<0.01	0.14	2.4
ZZ50213		0.46	175.5	3160	10.0	5.8	0.002	0.09	3.34	5.1	8.2	0.5	126.5	<0.01	0.13	2.6
ZZ50214		0.29	340	4360	11.7	6.5	0.001	0.09	4.14	5.6	11.9	0.6	178.0	<0.01	0.19	1.7
ZZ50215		0.20	44.6	2180	11.3	12.0	0.001	0.08	1.64	0.6	2.2	0.7	36.9	<0.01	0.07	<0.2
ZZ50216		0.38	64.7	2000	9.0	4.9	0.002	0.10	2.00	3.2	3.8	0.4	63.3	<0.01	0.12	0.9
ZZ50217		0.10	28.9	930	17.5	6.1	0.001	0.22	0.72	3.2	1.6	0.4	40.2	<0.01	0.07	0.8
ZZ50218		0.21	82.9	1470	17.7	5.7	0.001	0.10	1.23	4.2	1.4	0.5	40.6	<0.01	0.13	1.1
ZZ50219		0.06	37.1	880	20.7	7.6	0.001	0.16	0.61	4.6	0.9	0.3	46.3	<0.01	0.05	1.3
ZZ50220		<0.05	48.3	690	25.3	10.0	0.001	0.12	0.37	4.7	0.5	0.3	35.2	<0.01	0.03	2.9
ZZ50221		0.33	121.5	3070	12.7	8.7	0.001	0.12	2.24	3.5	5.1	0.6	60.9	<0.01	0.20	0.7
ZZ50222		0.11	63.1	1980	9.3	6.0	0.001	0.14	1.25	0.2	2.9	0.6	31.3	<0.01	0.16	<0.2
ZZ50223		0.09	60.8	850	16.1	9.6	0.001	0.07	0.63	6.4	1.4	0.4	21.4	<0.01	0.05	1.4
ZZ50224		0.12	100.5	2920	18.4	7.3	0.010	0.18	3.00	3.9	10.8	0.7	97.5	<0.01	0.18	0.8
ZZ50225		0.08	69.2	2150	18.3	8.1	0.001	0.18	1.93	4.2	7.1	0.6	66.1	<0.01	0.17	1.1
ZZ50226		0.31	23.7	480	14.6	11.7	<0.001	0.04	0.49	3.3	0.5	0.5	8.0	<0.01	0.09	1.9
ZZ50227		0.36	39.0	1370	13.7	6.2	0.001	0.13	0.72	3.3	3.4	0.5	27.2	<0.01	0.07	0.7
ZZ50228		0.51	45.3	850	14.2	5.5	<0.001	0.08	0.75	4.9	2.1	0.6	23.4	<0.01	0.09	1.3
ZZ50229		0.40	33.3	1270	8.7	4.9	0.003	0.20	0.83	1.8	2.1	0.4	35.3	<0.01	0.07	0.3
ZZ50230		<0.05	51.8	500	19.6	6.7	0.001	0.08	0.37	6.2	0.6	0.4	15.3	<0.01	0.04	2.2
ZZ50231		0.18	41.1	750	18.0	7.5	0.001	0.03	0.58	8.3	1.0	0.4	27.1	<0.01	0.07	4.8
ZZ50232		0.23	38.8	710	15.0	7.3	0.003	0.07	0.48	7.9	2.4	0.4	32.6	<0.01	0.07	3.4
ZZ50233		0.29	37.4	470	14.3	7.2	0.001	0.05	0.61	6.2	0.9	0.4	22.0	<0.01	0.07	3.1
ZZ50234		0.25	27.4	790	15.3	5.9	0.005	0.14	0.46	4.4	1.8	0.4	40.3	<0.01	0.07	1.1
ZZ50235		0.25	27.2	850	9.6	5.2	0.007	0.18	0.83	2.9	3.9	0.3	79.9	<0.01	0.05	0.5
ZZ50236		0.15	34.1	450	14.3	5.9	<0.001	0.05	0.42	6.5	0.8	0.4	30.4	<0.01	0.06	2.5
ZZ50237		0.52	18.5	1050	11.0	6.5	0.001	0.12	0.34	2.7	0.9	0.3	46.9	<0.01	0.03	0.8
ZZ50238		0.46	28.7	460	17.4	7.6	0.001	0.04	0.48	4.5	0.9	0.5	18.6	<0.01	0.06	2.8
ZZ50239		0.32	93.1	780	13.6	8.5	<0.001	0.10	1.24	5.2	1.5	0.5	50.1	<0.01	0.06	2.1
ZZ50240		0.58	25.8	1140	11.8	6.0	0.002	0.12	0.48	4.9	1.7	0.4	53.0	<0.01	0.03	2.6
ZZ50241		0.13	40.5	200	19.8	8.7	<0.001	0.03	0.47	10.8	1.2	0.4	10.5	<0.01	0.08	4.9
ZZ50242		0.06	47.9	670	19.7	8.0	0.001	0.04	0.51	9.9	1.2	0.4	66.5	<0.01	0.11	4.7
ZZ50243		0.17	38.4	600	17.4	7.0	0.001	0.04	0.39	8.9	0.9	0.4	35.6	<0.01	0.08	3.9
ZZ50244		0.12	50.8	850	17.7	7.7	0.005	0.10	0.69	6.7	1.7	0.4	40.5	<0.01	0.06	2.6
ZZ50245		0.16	45.2	850	16.6	7.4	0.005	0.05	0.80	5.6	2.1	0.4	37.7	<0.01	0.04	2.7
ZZ50246		0.19	46.6	850	17.6	7.6	0.006	0.07	0.81	5.9	3.0	0.4	40.8	<0.01	0.06	2.4
ZZ50247		1.22	12.5	280	14.7	8.8	<0.001	0.03	0.42	2.4	0.6	0.8	10.8	<0.01	0.03	2.6
ZZ50248		0.67	26.1	1500	21.6	12.5	<0.001	0.05	0.57	6.8	0.9	0.6	24.7	<0.01	0.06	2.6

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50209		0.005	0.16	0.79	38	<0.05	6.54	226	1.2
ZZ50210		0.020	0.17	1.20	62	0.29	14.45	108	1.3
ZZ50211		0.011	0.41	1.59	90	0.24	4.42	107	<0.5
ZZ50212		0.009	1.35	11.85	244	0.28	50.6	1030	2.9
ZZ50213		0.024	0.70	4.57	147	0.29	34.7	969	1.7
ZZ50214		0.008	0.98	8.50	211	0.18	67.4	1960	2.9
ZZ50215		0.007	0.41	1.99	112	0.25	9.88	231	<0.5
ZZ50216		0.015	0.28	1.78	72	0.14	25.5	351	1.6
ZZ50217		<0.005	0.43	0.68	25	<0.05	8.96	142	1.6
ZZ50218		<0.005	0.37	1.34	53	0.07	24.1	402	1.7
ZZ50219		<0.005	0.17	1.16	23	<0.05	11.65	141	1.1
ZZ50220		<0.005	0.25	0.49	14	<0.05	8.18	105	1.7
ZZ50221		0.008	0.54	3.46	89	0.12	39.4	740	1.3
ZZ50222		0.005	0.75	1.71	80	0.15	6.72	356	<0.5
ZZ50223		<0.005	0.20	1.54	33	<0.05	17.25	232	1.1
ZZ50224		<0.005	1.42	7.02	114	0.16	30.5	564	2.0
ZZ50225		<0.005	1.07	3.90	77	0.14	19.20	370	1.3
ZZ50226		<0.005	0.14	0.48	45	0.07	2.92	107	0.7
ZZ50227		0.005	0.13	4.63	56	0.10	21.3	172	1.5
ZZ50228		0.007	0.17	2.16	69	0.13	25.1	211	1.4
ZZ50229		0.008	0.15	3.52	39	0.07	20.6	171	1.3
ZZ50230		<0.005	0.18	0.64	20	<0.05	6.83	155	1.4
ZZ50231		0.006	0.12	0.70	48	0.05	12.35	113	5.0
ZZ50232		<0.005	0.10	0.95	50	<0.05	12.40	132	3.3
ZZ50233		0.006	0.10	0.81	47	0.05	6.37	115	2.4
ZZ50234		0.005	0.09	1.81	40	<0.05	10.60	126	2.0
ZZ50235		<0.005	0.09	2.18	37	0.05	11.55	122	1.5
ZZ50236		<0.005	0.07	0.67	45	<0.05	5.69	122	2.1
ZZ50237		0.012	0.09	1.01	36	0.11	5.94	142	1.3
ZZ50238		0.009	0.13	0.80	50	0.08	5.46	98	1.6
ZZ50239		<0.005	0.23	2.33	46	0.83	33.4	216	2.9
ZZ50240		0.013	0.13	3.62	48	0.08	10.35	95	1.7
ZZ50241		<0.005	0.11	0.58	58	<0.05	14.60	93	3.1
ZZ50242		0.005	0.15	0.48	57	<0.05	11.45	114	6.2
ZZ50243		0.005	0.11	0.70	50	<0.05	12.25	98	3.7
ZZ50244		<0.005	0.14	1.03	44	<0.05	14.20	186	1.8
ZZ50245		<0.005	0.16	1.18	50	<0.05	11.15	159	1.9
ZZ50246		<0.005	0.16	1.71	49	<0.05	11.90	184	2.0
ZZ50247		0.024	0.13	0.49	62	0.22	2.60	98	<0.5
ZZ50248		0.013	0.14	1.64	71	0.13	14.05	84	1.4



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50249		0.21	0.002	0.25	1.02	16.4	<0.2	<10	580	0.72	0.20	0.89	1.30	14.00	13.1	20
ZZ50250		0.20	0.002	0.28	1.18	16.8	<0.2	<10	330	0.73	0.24	0.78	1.28	14.05	13.9	22
ZZ50251		0.15	0.001	0.35	1.11	12.7	<0.2	<10	410	0.60	0.20	1.32	1.18	11.60	7.9	19
ZZ50252		0.13	0.003	0.04	2.21	19.8	<0.2	<10	330	0.58	0.28	0.07	0.40	26.4	9.7	32
ZZ50253		0.17	0.001	0.03	1.84	9.0	<0.2	<10	340	0.42	0.23	0.29	0.21	23.7	7.0	26
ZZ50254		0.20	<0.001	0.08	2.13	16.3	<0.2	<10	260	0.88	0.25	0.13	0.22	27.4	13.1	32
ZZ50255		0.21	<0.001	0.04	0.99	8.3	<0.2	<10	80	0.19	0.26	0.07	0.16	22.1	4.6	20
ZZ50256		0.22	0.001	0.29	2.26	16.6	<0.2	<10	180	0.95	0.33	0.12	0.17	28.8	13.7	35
ZZ50257		0.24	0.001	0.04	2.14	12.1	<0.2	<10	130	0.83	0.28	0.36	0.24	35.7	21.5	31
ZZ50258		0.22	0.002	0.03	2.43	14.2	<0.2	<10	130	1.01	0.29	0.28	0.17	32.8	17.5	35
ZZ50259		0.14	0.001	0.05	2.56	16.4	<0.2	<10	240	1.08	0.31	0.09	0.17	27.5	19.7	34
ZZ50260		0.21	<0.001	0.03	2.30	18.1	<0.2	<10	140	0.78	0.36	0.08	0.25	27.2	18.7	35
ZZ50261		0.16	0.001	0.02	1.81	17.1	<0.2	<10	140	0.65	0.33	0.09	0.21	27.0	14.1	28
ZZ50262		0.23	<0.001	0.02	1.37	10.7	<0.2	<10	140	0.40	0.27	0.08	0.12	27.9	6.7	21
ZZ50263		0.21	<0.001	0.07	2.22	11.0	<0.2	<10	130	0.83	0.29	0.13	0.64	20.7	9.0	29
ZZ50264		0.17	0.001	0.26	3.00	10.9	<0.2	<10	180	1.23	0.27	0.33	0.37	22.3	14.2	33
ZZ50265		0.18	0.003	0.03	1.52	8.4	<0.2	<10	250	0.56	0.31	0.23	0.17	25.4	6.2	21
ZZ50266		0.24	0.002	0.14	1.23	20.0	<0.2	<10	160	0.64	0.28	1.12	0.31	23.5	11.2	20
ZZ50267		0.23	0.001	0.08	0.86	16.2	<0.2	<10	130	0.57	0.27	0.92	0.32	32.3	12.1	17
ZZ50268		0.17	0.009	0.28	1.34	8.0	<0.2	<10	230	0.93	0.23	2.32	0.66	29.9	13.2	21
ZZ50269		0.22	0.001	0.09	2.25	13.8	<0.2	<10	160	0.72	0.33	0.07	0.24	26.4	13.2	33
ZZ50270		0.18	<0.001	0.05	1.94	14.1	<0.2	<10	130	0.34	0.29	0.08	0.16	25.9	8.6	31
ZZ50271		0.19	0.003	0.17	1.81	13.8	<0.2	<10	280	0.93	0.31	0.51	0.39	32.1	15.0	30
ZZ50272		0.21	0.002	0.14	1.54	11.7	<0.2	<10	180	0.66	0.24	2.01	0.21	19.70	15.3	24
ZZ50273		0.18	0.001	0.02	1.92	13.2	<0.2	<10	260	0.73	0.33	0.20	0.25	30.4	12.6	29
ZZ50274		0.14	<0.001	0.02	2.47	10.9	<0.2	<10	210	0.76	0.25	0.24	0.11	26.1	13.8	32
ZZ50275		0.19	0.002	0.09	1.96	13.8	<0.2	<10	170	0.87	0.31	0.51	0.20	33.6	23.4	30
ZZ50276		0.26	0.001	0.03	2.13	15.9	<0.2	<10	140	0.61	0.30	0.08	0.16	23.0	10.9	31
ZZ50277		0.14	<0.001	0.05	1.60	11.6	<0.2	<10	140	0.41	0.29	0.08	0.14	23.6	7.7	25
ZZ50278		0.16	0.001	0.02	1.70	11.5	<0.2	<10	230	0.31	0.27	0.07	0.08	24.8	6.3	24
ZZ50279		0.17	0.001	0.11	2.16	11.0	<0.2	<10	270	0.99	0.31	0.69	0.48	28.9	11.9	32
ZZ50280		0.18	0.001	0.11	1.79	14.6	<0.2	<10	270	0.87	0.32	0.96	0.42	18.75	12.6	28
ZZ50281		0.09	0.001	0.17	1.99	40.3	<0.2	<10	170	0.78	0.30	0.14	0.86	23.5	16.6	29
ZZ50282		0.15	0.004	0.18	1.93	92.7	<0.2	<10	280	0.72	0.35	0.28	1.12	18.00	10.9	30
ZZ50283		0.23	0.001	0.08	2.29	16.7	<0.2	<10	210	0.60	0.35	0.12	0.24	29.7	9.7	34
ZZ50284		0.17	<0.001	0.07	2.16	14.6	<0.2	<10	180	0.50	0.29	0.08	0.16	21.1	6.9	32
ZZ50285		0.15	0.001	0.07	2.25	13.9	<0.2	<10	260	0.83	0.29	0.14	0.22	24.4	11.4	32
ZZ50286		0.17	0.001	0.03	1.27	12.1	<0.2	<10	140	0.26	0.32	0.05	0.12	23.8	4.4	21
ZZ50287		0.15	0.005	0.15	1.37	25.3	<0.2	<10	300	0.75	0.28	0.97	0.60	18.15	11.7	24
ZZ50288		0.19	0.003	0.23	1.27	19.4	<0.2	<10	370	0.67	0.29	0.84	0.45	15.40	11.2	23



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50249		0.87	34.5	3.05	3.17	<0.05	0.04	0.10	0.033	0.07	6.0	19.7	0.48	713	3.06	0.01
ZZ50250		0.79	30.8	3.33	3.44	<0.05	0.04	0.11	0.032	0.07	6.0	18.6	0.39	510	3.35	0.01
ZZ50251		0.75	25.4	2.57	3.50	<0.05	0.04	0.10	0.030	0.06	5.0	14.9	0.34	197	2.53	0.01
ZZ50252		1.23	19.3	4.64	8.33	<0.05	0.02	0.03	0.039	0.05	11.9	40.1	0.45	337	1.74	0.01
ZZ50253		1.28	8.3	2.62	6.79	<0.05	0.02	0.01	0.027	0.03	12.2	20.3	0.38	261	1.25	0.01
ZZ50254		1.72	18.9	4.29	6.11	<0.05	0.04	0.03	0.037	0.05	11.3	35.9	0.52	453	1.59	0.01
ZZ50255		1.27	10.2	2.25	5.86	<0.05	<0.02	0.02	0.015	0.05	10.8	12.7	0.28	227	1.06	0.01
ZZ50256		1.69	22.1	4.16	6.69	<0.05	0.04	0.03	0.037	0.06	13.3	36.3	0.50	419	1.75	0.01
ZZ50257		1.02	71.8	4.66	6.33	0.05	0.08	0.03	0.030	0.07	15.1	37.5	1.01	654	0.62	0.01
ZZ50258		1.16	72.2	5.05	6.90	0.05	0.08	0.04	0.041	0.08	15.1	42.8	1.06	548	0.61	0.01
ZZ50259		1.71	40.0	5.21	6.96	<0.05	0.10	0.02	0.044	0.05	13.1	54.2	0.77	494	0.91	0.01
ZZ50260		1.83	41.1	5.49	7.87	0.05	0.09	0.03	0.046	0.06	13.0	59.6	0.81	484	1.01	0.01
ZZ50261		1.44	27.7	4.52	6.73	<0.05	0.06	0.02	0.037	0.05	13.2	47.3	0.59	309	1.18	0.01
ZZ50262		1.31	12.1	3.00	5.85	<0.05	0.03	0.02	0.024	0.04	14.9	23.9	0.32	183	1.21	0.01
ZZ50263		1.05	21.1	3.91	7.87	<0.05	0.02	0.03	0.034	0.04	10.5	36.9	0.40	587	1.07	0.01
ZZ50264		1.57	15.7	5.07	7.48	<0.05	0.04	0.05	0.042	0.04	10.7	50.3	0.38	1140	0.85	0.01
ZZ50265		1.62	11.9	2.71	6.45	<0.05	0.02	0.02	0.025	0.04	12.8	19.0	0.26	235	1.16	0.01
ZZ50266		1.40	43.5	3.14	3.80	0.06	0.07	0.13	0.026	0.06	10.2	39.7	1.08	174	0.68	0.01
ZZ50267		0.99	30.0	3.31	2.56	0.05	0.06	0.07	0.029	0.04	13.9	18.6	0.36	1260	0.56	0.01
ZZ50268		1.27	76.6	2.14	3.82	0.06	0.08	0.19	0.027	0.05	16.2	22.5	0.49	1230	0.59	0.01
ZZ50269		1.43	27.6	4.12	7.22	<0.05	0.09	0.04	0.037	0.05	13.3	43.4	0.49	337	1.22	0.01
ZZ50270		1.75	17.0	4.01	7.95	<0.05	<0.02	0.02	0.029	0.05	13.2	34.0	0.51	202	1.61	0.01
ZZ50271		1.29	58.2	3.75	4.98	0.06	0.05	0.09	0.037	0.06	15.9	30.9	0.67	758	0.92	0.02
ZZ50272		0.98	39.0	3.26	4.88	0.05	0.06	0.09	0.025	0.08	8.9	27.6	0.74	769	0.59	0.01
ZZ50273		1.43	23.5	3.75	6.50	0.05	0.06	0.03	0.031	0.05	14.5	27.0	0.48	550	1.07	0.01
ZZ50274		1.38	27.4	4.13	7.51	<0.05	0.06	0.02	0.040	0.05	12.5	50.6	0.75	472	0.85	0.01
ZZ50275		1.23	93.5	5.16	6.12	0.07	0.11	0.10	0.034	0.09	16.1	36.4	0.98	868	0.93	0.01
ZZ50276		1.55	21.7	3.65	6.34	<0.05	0.03	0.04	0.034	0.05	11.5	32.4	0.52	319	1.50	0.01
ZZ50277		1.54	14.4	3.36	6.78	<0.05	<0.02	0.03	0.028	0.05	11.6	26.8	0.30	358	1.46	0.01
ZZ50278		1.13	11.9	3.38	7.51	<0.05	0.04	0.02	0.025	0.04	13.1	25.6	0.37	229	1.22	0.01
ZZ50279		1.91	21.6	3.15	7.02	0.05	0.02	0.05	0.037	0.06	13.7	46.3	0.50	1180	1.22	0.02
ZZ50280		1.96	27.4	3.53	6.42	<0.05	0.02	0.08	0.033	0.05	11.9	23.5	0.40	1940	1.82	0.02
ZZ50281		2.17	35.3	3.63	7.04	<0.05	0.04	0.05	0.035	0.09	10.6	31.1	0.48	1380	2.12	0.01
ZZ50282		3.55	32.6	3.80	7.28	<0.05	0.02	0.04	0.037	0.08	7.8	22.7	0.30	1640	3.38	0.01
ZZ50283		1.73	13.7	3.46	7.82	0.05	0.03	0.03	0.030	0.06	15.7	19.5	0.44	263	2.01	0.01
ZZ50284		1.34	13.8	3.93	7.89	<0.05	0.02	0.03	0.030	0.05	11.0	29.0	0.35	270	1.56	0.01
ZZ50285		1.55	17.3	3.55	6.44	<0.05	0.03	0.04	0.035	0.06	12.5	21.5	0.37	250	1.81	0.02
ZZ50286		1.03	8.5	3.37	7.95	<0.05	0.02	0.02	0.021	0.04	12.6	13.6	0.18	189	1.65	0.01
ZZ50287		1.05	29.0	3.61	4.84	<0.05	0.03	0.09	0.034	0.07	7.6	31.1	0.34	605	2.80	0.01
ZZ50288		0.93	33.4	3.02	4.29	<0.05	0.06	0.10	0.032	0.07	7.1	18.2	0.36	569	3.82	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50249		0.15	42.5	930	13.3	6.8	0.005	0.09	0.77	4.8	2.3	0.4	46.2	<0.01	0.05	2.0
ZZ50250		0.17	35.5	930	15.3	7.1	0.003	0.06	0.68	4.8	2.2	0.4	41.0	<0.01	0.05	1.6
ZZ50251		0.23	26.0	1060	12.9	6.4	0.001	0.13	0.53	3.0	2.0	0.4	44.9	<0.01	0.04	0.8
ZZ50252		1.16	21.4	360	18.6	10.3	<0.001	0.03	0.55	4.1	0.7	0.9	8.1	<0.01	0.06	2.9
ZZ50253		1.28	13.6	220	12.7	8.2	<0.001	0.03	0.33	2.9	<0.2	0.8	16.1	<0.01	0.02	2.5
ZZ50254		1.06	27.3	390	18.9	8.9	<0.001	0.03	0.54	3.4	0.5	0.6	13.6	<0.01	0.04	3.4
ZZ50255		0.68	10.9	410	12.2	11.0	<0.001	0.04	0.42	1.0	<0.2	0.7	7.2	<0.01	0.03	0.3
ZZ50256		1.25	30.3	300	22.1	11.4	0.001	0.03	0.69	3.8	0.4	0.7	12.4	<0.01	0.05	4.3
ZZ50257		0.17	35.6	380	17.5	8.5	<0.001	0.03	0.37	6.2	0.6	0.4	22.5	<0.01	0.08	3.3
ZZ50258		0.08	36.4	240	16.1	9.0	<0.001	<0.01	0.44	8.3	0.5	0.4	20.5	<0.01	0.07	4.5
ZZ50259		0.50	34.3	340	20.7	11.0	<0.001	<0.01	0.55	4.9	0.5	0.6	10.3	<0.01	0.08	4.1
ZZ50260		0.37	31.9	290	22.1	11.5	<0.001	<0.01	0.60	5.0	0.3	0.6	9.7	<0.01	0.07	4.5
ZZ50261		0.71	26.8	250	19.0	11.2	<0.001	<0.01	0.75	3.6	0.4	0.6	10.0	<0.01	0.07	3.9
ZZ50262		0.96	13.2	180	12.8	10.6	<0.001	<0.01	0.59	2.5	0.2	0.7	9.2	<0.01	0.05	3.7
ZZ50263		0.82	16.9	550	15.7	7.2	<0.001	0.02	0.47	3.8	<0.2	0.8	10.7	<0.01	0.03	2.0
ZZ50264		0.99	22.7	600	17.3	10.7	<0.001	0.02	0.43	4.4	0.5	0.7	9.0	0.01	0.06	2.4
ZZ50265		1.02	10.8	190	15.8	9.6	<0.001	<0.01	0.40	2.5	<0.2	0.8	14.8	<0.01	0.03	3.4
ZZ50266		0.11	30.6	720	17.6	4.3	0.001	0.03	0.70	4.8	0.6	0.3	35.8	<0.01	0.06	4.3
ZZ50267		0.21	21.4	910	27.2	6.3	<0.001	0.04	0.59	4.9	0.6	0.2	39.9	<0.01	0.03	2.4
ZZ50268		0.52	27.1	1220	15.5	8.2	<0.001	0.10	0.68	4.5	1.9	0.3	112.0	<0.01	0.03	1.0
ZZ50269		0.93	26.2	280	18.0	11.3	<0.001	<0.01	0.64	3.8	0.3	0.7	8.7	<0.01	0.05	4.7
ZZ50270		1.33	19.6	330	12.5	9.0	<0.001	0.01	0.67	3.1	0.4	0.8	9.5	<0.01	0.03	2.1
ZZ50271		0.58	33.4	910	20.8	9.0	<0.001	0.02	0.71	7.7	0.6	0.5	37.3	<0.01	0.04	2.8
ZZ50272		0.25	25.6	880	14.6	7.0	<0.001	0.06	0.40	4.0	0.8	0.4	86.4	<0.01	0.04	1.3
ZZ50273		1.08	22.5	410	17.8	10.9	<0.001	<0.01	0.60	4.0	0.3	0.7	17.3	<0.01	0.04	4.2
ZZ50274		0.40	25.8	210	13.9	10.4	<0.001	<0.01	0.33	4.7	0.3	0.6	19.2	<0.01	0.06	3.5
ZZ50275		0.13	40.3	390	19.7	6.2	<0.001	0.02	0.52	9.2	0.9	0.4	33.5	<0.01	0.08	4.3
ZZ50276		1.34	24.2	400	16.0	9.8	<0.001	0.01	0.75	3.1	0.6	0.7	8.6	<0.01	0.06	2.8
ZZ50277		1.19	13.7	330	14.1	10.7	<0.001	0.01	0.54	2.6	0.3	1.0	8.0	<0.01	0.04	2.7
ZZ50278		1.04	13.6	220	10.4	7.0	<0.001	<0.01	0.48	2.9	0.2	0.8	7.9	<0.01	0.05	3.3
ZZ50279		0.73	26.5	1130	14.1	16.6	<0.001	0.05	0.50	2.4	0.8	0.8	41.4	<0.01	0.04	0.6
ZZ50280		0.59	21.6	1240	16.5	12.6	<0.001	0.05	0.50	3.3	0.5	0.6	52.8	<0.01	0.06	0.8
ZZ50281		0.88	26.0	560	19.9	14.3	<0.001	0.02	0.54	4.4	0.7	0.8	14.9	<0.01	0.06	2.6
ZZ50282		0.52	21.8	1680	16.8	20.1	<0.001	0.10	0.44	1.9	0.4	0.7	18.3	<0.01	0.06	0.6
ZZ50283		1.74	22.0	400	17.0	10.4	<0.001	0.01	0.77	3.6	0.6	1.0	11.6	<0.01	0.03	4.5
ZZ50284		1.55	16.1	470	15.4	10.2	<0.001	0.01	0.60	2.7	0.3	1.0	8.1	<0.01	0.04	2.7
ZZ50285		1.59	27.2	340	16.1	9.1	<0.001	0.01	0.69	3.6	0.8	0.8	11.7	0.01	0.04	4.1
ZZ50286		1.89	9.7	230	15.1	8.3	<0.001	0.01	0.66	2.0	0.5	0.9	6.8	<0.01	0.02	3.1
ZZ50287		0.59	28.1	720	19.4	12.9	<0.001	0.05	0.92	4.5	1.4	0.6	49.3	<0.01	0.06	1.5
ZZ50288		0.55	32.1	650	13.8	9.7	0.001	0.03	1.02	4.7	1.5	0.6	44.4	<0.01	0.05	2.0



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Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50249		<0.005	0.18	1.03	44	<0.05	11.10	177	1.6
ZZ50250		<0.005	0.13	1.26	46	0.05	10.30	179	1.2
ZZ50251		<0.005	0.14	2.21	44	0.05	6.97	86	1.0
ZZ50252		0.016	0.16	0.45	86	0.17	3.19	91	1.1
ZZ50253		0.023	0.16	0.40	67	0.21	2.39	80	0.8
ZZ50254		0.018	0.15	0.50	60	0.22	3.83	111	1.7
ZZ50255		0.028	0.09	0.59	44	0.19	1.79	40	<0.5
ZZ50256		0.030	0.18	0.67	67	0.26	4.53	81	1.8
ZZ50257		<0.005	0.09	0.57	50	<0.05	6.90	79	2.5
ZZ50258		<0.005	0.10	0.63	59	<0.05	7.29	88	2.6
ZZ50259		0.007	0.15	0.51	57	0.12	4.11	74	3.7
ZZ50260		0.006	0.13	0.53	56	0.06	3.84	78	4.3
ZZ50261		0.012	0.11	0.50	50	0.13	3.21	73	2.9
ZZ50262		0.020	0.11	0.49	52	0.17	3.09	56	1.6
ZZ50263		0.012	0.12	0.44	68	0.16	3.60	136	0.7
ZZ50264		0.011	0.12	0.83	61	0.17	5.98	42	1.5
ZZ50265		0.017	0.15	0.52	60	0.25	3.91	53	1.0
ZZ50266		<0.005	0.08	0.67	26	0.06	9.56	134	2.8
ZZ50267		0.008	0.05	1.69	19	0.05	11.10	86	1.8
ZZ50268		0.014	0.07	4.40	26	0.12	22.5	72	2.1
ZZ50269		0.019	0.14	0.59	64	0.17	3.36	111	3.3
ZZ50270		0.024	0.17	0.50	68	0.27	2.62	80	<0.5
ZZ50271		0.019	0.10	1.20	42	0.28	16.90	109	1.4
ZZ50272		0.006	0.06	0.60	34	<0.05	6.94	92	1.7
ZZ50273		0.023	0.13	0.87	62	0.24	5.63	124	2.3
ZZ50274		0.005	0.13	0.38	58	0.07	3.21	77	2.5
ZZ50275		0.005	0.10	0.47	49	<0.05	11.95	89	4.2
ZZ50276		0.025	0.16	0.55	57	0.29	3.19	74	0.7
ZZ50277		0.019	0.13	0.49	62	0.25	2.51	55	0.6
ZZ50278		0.017	0.13	0.38	62	0.18	2.16	50	1.5
ZZ50279		0.023	0.12	1.49	58	0.19	9.10	85	<0.5
ZZ50280		0.017	0.10	4.61	53	0.15	7.64	75	0.7
ZZ50281		0.014	0.12	1.00	58	0.16	3.71	149	1.3
ZZ50282		0.009	0.20	1.28	84	0.11	3.66	111	0.6
ZZ50283		0.046	0.21	0.69	77	0.37	5.27	97	1.6
ZZ50284		0.025	0.15	0.61	76	0.26	2.44	88	1.0
ZZ50285		0.036	0.15	0.75	65	0.32	4.82	74	1.2
ZZ50286		0.042	0.14	0.45	76	0.27	2.01	69	1.0
ZZ50287		0.007	0.17	1.94	68	0.09	9.24	146	1.1
ZZ50288		0.009	0.21	1.55	66	0.15	7.62	153	1.5



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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50289		0.15	0.001	0.26	1.48	86.5	<0.2	<10	650	0.68	0.20	2.61	2.57	16.10	9.7	26
ZZ50290		0.13	<0.001	0.48	1.80	156.5	<0.2	<10	80	0.33	0.29	0.02	0.17	25.4	9.8	31

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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ50289		0.95	31.2	2.50	3.94	<0.05	0.05	0.38	0.028	0.06	11.4	17.9	0.38	932	0.90	0.02
ZZ50290		2.01	27.5	4.48	7.17	0.05	0.04	0.07	0.032	0.07	12.9	20.7	0.55	232	1.62	0.01

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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm
ZZ50289		0.54	24.9	1460	11.7	12.6	0.004	0.14	0.67	2.6	2.7	0.4	46.4	<0.01	0.05	0.6
ZZ50290		0.67	25.7	260	15.0	11.0	0.001	0.01	0.73	3.9	0.6	0.6	8.9	<0.01	0.07	2.8

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**CERTIFICATE OF ANALYSIS WH12193038**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50289		0.008	0.13	2.04	37	0.09	19.15	164	1.3
ZZ50290		0.011	0.20	0.37	74	0.12	2.79	134	1.8

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**CERTIFICATE OF ANALYSIS WH12193038**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12193039**

Project: ATAC- Regional - Area E/D  
 P.O. No.: Soil 31  
 This report is for 110 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50351		0.16	0.001	0.05	1.68	43.2	<0.2	<10	90	0.45	0.30	0.09	0.21	25.0	7.5	27
ZZ50352		0.14	0.001	0.21	0.98	30.9	<0.2	<10	80	0.12	0.29	0.07	0.09	20.2	1.6	14
ZZ50353		0.23	0.002	0.11	2.34	155.0	<0.2	<10	400	1.05	0.29	0.22	0.50	37.7	22.8	36
ZZ50354		0.18	<0.001	0.07	1.73	335	<0.2	<10	580	0.49	0.29	0.33	0.28	20.0	10.5	29
ZZ50355		0.16	0.001	0.18	1.88	103.0	<0.2	<10	570	0.84	0.31	0.29	0.49	27.4	13.2	31
ZZ50356		0.17	0.001	0.28	1.80	47.1	<0.2	<10	500	0.91	0.27	0.54	0.37	29.0	15.6	31
ZZ50357		0.15	<0.001	0.32	1.58	25.8	<0.2	<10	580	0.70	0.25	1.52	0.74	17.15	12.4	27
ZZ50358		0.30	0.003	0.41	1.57	26.0	<0.2	<10	470	0.83	0.26	1.15	0.62	24.9	17.6	28
ZZ50359		0.14	0.004	0.34	1.57	23.9	<0.2	<10	570	0.82	0.24	1.56	0.50	17.85	14.6	26
ZZ50360		0.21	0.005	0.44	1.76	24.8	<0.2	<10	430	0.89	0.26	0.75	0.58	26.7	18.3	30
ZZ50361		0.15	0.003	0.32	1.46	19.9	<0.2	<10	490	0.77	0.23	1.45	0.60	21.2	14.7	25
ZZ50362		0.13	<0.001	0.29	1.45	17.6	<0.2	<10	520	0.62	0.22	1.74	0.44	15.60	12.1	24
ZZ50363		0.17	<0.001	0.31	1.42	18.1	<0.2	<10	510	0.78	0.21	1.78	0.57	18.55	13.2	24
ZZ50364		0.19	0.006	0.26	1.61	15.8	<0.2	<10	540	0.69	0.21	1.93	0.50	18.70	13.9	26
ZZ50365		0.24	0.002	0.31	1.85	18.8	<0.2	<10	430	0.80	0.25	0.89	0.34	24.9	15.6	30
ZZ50366		0.29	0.002	0.21	1.86	16.3	<0.2	<10	330	0.84	0.26	1.03	0.49	30.4	22.2	29
ZZ50367		0.15	0.001	0.29	1.51	13.7	<0.2	<10	460	0.78	0.21	1.87	0.55	18.80	13.9	24
ZZ50368		0.16	0.001	0.23	1.78	16.4	<0.2	<10	440	0.73	0.24	1.45	0.31	20.5	12.6	28
ZZ50369		0.15	0.002	0.28	1.62	18.2	<0.2	<10	430	0.78	0.23	1.57	0.50	22.4	14.1	26
ZZ50370		0.19	0.002	0.27	1.77	16.5	<0.2	<10	400	0.84	0.27	1.05	0.48	25.9	11.9	29
ZZ50371		0.17	0.010	0.28	1.69	21.2	<0.2	<10	490	0.87	0.24	1.45	0.63	20.1	19.6	26
ZZ50372		0.17	0.006	0.26	1.63	15.1	<0.2	<10	450	0.77	0.22	1.29	0.48	20.9	10.8	27
ZZ50373		0.17	0.006	0.30	1.69	9.3	<0.2	<10	550	0.84	0.24	1.23	0.71	22.5	16.9	27
ZZ50374		0.15	0.004	0.33	1.64	36.4	<0.2	<10	520	1.03	0.23	1.41	0.96	22.3	15.8	26
ZZ50375		0.17	0.003	0.31	1.77	15.1	<0.2	<10	500	0.89	0.24	1.06	0.65	25.2	13.3	29
ZZ50376		0.12	0.004	0.16	1.32	16.0	<0.2	<10	310	0.50	0.18	1.17	0.42	17.00	10.0	22
ZZ50377		0.16	0.001	0.24	1.58	18.6	<0.2	<10	390	0.67	0.22	1.41	0.47	21.3	11.9	25
ZZ50378		0.15	0.001	0.22	1.53	19.0	<0.2	<10	430	0.73	0.22	1.38	0.53	20.9	12.3	25
ZZ50379		0.18	0.001	0.28	1.73	23.2	<0.2	<10	450	0.89	0.26	1.15	0.67	24.2	13.9	29
ZZ50380		0.24	0.003	0.71	1.37	38.9	<0.2	<10	580	0.86	0.24	1.30	0.79	18.05	13.4	26
ZZ50381		0.19	0.005	0.57	1.16	25.2	<0.2	<10	710	0.76	0.22	1.53	0.66	19.05	10.2	24
ZZ50382		0.15	0.005	0.49	1.12	18.5	<0.2	<10	520	0.98	0.22	1.44	0.51	18.15	11.5	22
ZZ50383		0.15	0.004	0.54	1.34	16.6	<0.2	<10	860	0.78	0.21	1.26	0.81	21.2	10.6	28
ZZ50384		0.21	<0.001	0.25	1.47	19.7	<0.2	<10	780	0.82	0.21	0.52	0.24	22.2	10.0	24
ZZ50385		0.13	0.014	0.20	1.33	18.3	<0.2	<10	760	0.68	0.19	2.09	1.34	16.25	17.5	22
ZZ50386		0.19	0.002	0.27	1.62	9.5	<0.2	<10	570	0.69	0.22	0.93	0.38	24.0	9.2	27
ZZ50387		0.17	0.002	0.18	1.75	17.6	<0.2	<10	380	0.81	0.28	0.41	0.25	32.5	14.6	27
ZZ50388		0.19	0.002	0.18	2.21	20.0	<0.2	<10	310	0.87	0.26	0.10	0.34	32.9	14.5	33
ZZ50389		0.22	0.002	0.13	1.88	12.2	<0.2	<10	230	0.85	0.29	0.34	0.30	38.6	20.9	26
ZZ50390		0.26	0.005	0.08	2.19	13.3	<0.2	<10	370	0.87	0.31	0.31	0.15	37.6	20.7	31



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Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50351		1.65	12.9	3.06	6.30	<0.05	0.03	0.03	0.031	0.05	12.1	17.3	0.32	343	1.60	0.01
ZZ50352		1.22	4.9	1.34	6.95	<0.05	<0.02	0.04	0.010	0.03	10.8	3.1	0.10	43	1.18	0.01
ZZ50353		1.91	53.7	4.47	6.20	0.05	0.07	0.11	0.040	0.12	15.7	33.4	0.88	801	1.53	0.01
ZZ50354		1.47	26.2	3.60	6.40	<0.05	0.03	0.09	0.034	0.07	9.3	21.7	0.52	432	1.49	<0.01
ZZ50355		1.48	36.7	3.90	5.74	<0.05	0.05	0.10	0.041	0.07	12.5	21.9	0.47	636	1.58	<0.01
ZZ50356		0.97	45.1	4.00	5.11	0.05	0.06	0.14	0.034	0.07	12.9	25.1	0.78	539	1.49	<0.01
ZZ50357		1.09	43.9	3.45	4.82	<0.05	0.05	0.17	0.034	0.08	7.9	21.6	0.68	428	1.21	<0.01
ZZ50358		1.48	83.1	3.84	5.02	0.05	0.08	0.21	0.037	0.11	11.3	24.6	0.84	501	1.77	<0.01
ZZ50359		1.13	64.2	3.53	4.98	<0.05	0.07	0.17	0.038	0.10	8.8	22.7	0.72	528	1.48	<0.01
ZZ50360		1.61	83.8	4.02	5.53	0.05	0.08	0.19	0.038	0.11	12.5	27.8	0.88	478	1.75	<0.01
ZZ50361		1.03	59.2	3.23	4.56	0.05	0.07	0.18	0.033	0.09	9.6	22.4	0.69	638	1.14	<0.01
ZZ50362		0.91	53.9	3.16	4.17	<0.05	0.07	0.17	0.031	0.08	6.9	20.1	0.70	523	1.05	<0.01
ZZ50363		0.96	57.2	3.06	4.31	0.05	0.06	0.18	0.034	0.09	7.9	21.3	0.67	690	1.11	<0.01
ZZ50364		0.96	59.9	3.40	4.57	0.05	0.06	0.18	0.030	0.10	8.3	23.1	0.79	675	0.99	<0.01
ZZ50365		1.19	62.7	3.81	5.64	0.05	0.09	0.16	0.036	0.10	11.9	30.7	0.86	532	1.12	<0.01
ZZ50366		1.53	77.6	4.23	5.81	0.05	0.09	0.12	0.035	0.12	14.3	35.2	1.08	845	1.07	<0.01
ZZ50367		0.95	72.5	3.13	4.51	<0.05	0.07	0.16	0.032	0.09	9.0	22.8	0.70	573	0.83	<0.01
ZZ50368		0.96	48.5	3.71	4.96	0.05	0.07	0.13	0.033	0.10	9.9	27.3	0.84	397	1.02	<0.01
ZZ50369		1.02	58.9	3.40	5.04	0.06	0.07	0.15	0.031	0.10	10.5	27.2	0.75	543	1.03	<0.01
ZZ50370		1.17	64.5	3.32	5.44	0.05	0.09	0.18	0.034	0.11	11.9	27.7	0.78	297	0.69	<0.01
ZZ50371		1.15	62.7	4.18	4.90	0.05	0.08	0.17	0.033	0.09	10.0	25.3	0.72	1730	1.44	<0.01
ZZ50372		0.95	49.2	2.96	4.88	0.05	0.07	0.20	0.030	0.09	9.9	25.7	0.69	307	0.60	<0.01
ZZ50373		1.08	59.1	2.76	5.26	<0.05	0.08	0.20	0.034	0.09	11.1	26.5	0.67	1220	0.55	<0.01
ZZ50374		1.13	78.8	4.76	4.77	0.06	0.08	0.21	0.028	0.09	11.2	22.9	0.60	508	1.54	<0.01
ZZ50375		1.26	53.7	2.97	5.32	0.05	0.08	0.22	0.036	0.09	12.0	27.7	0.69	332	0.68	<0.01
ZZ50376		0.73	30.3	2.93	3.98	<0.05	0.06	0.14	0.027	0.08	8.3	22.2	0.61	430	1.01	<0.01
ZZ50377		0.94	40.6	3.25	4.90	0.05	0.06	0.15	0.029	0.09	9.9	28.4	0.69	465	0.91	<0.01
ZZ50378		0.85	46.3	3.29	4.75	0.05	0.06	0.15	0.025	0.09	10.2	28.9	0.69	490	0.93	<0.01
ZZ50379		1.04	58.4	3.89	4.97	0.05	0.07	0.20	0.032	0.10	12.0	31.6	0.72	532	1.13	<0.01
ZZ50380		1.01	58.3	3.67	4.16	0.05	0.07	0.21	0.037	0.10	8.5	21.7	0.57	1060	1.93	<0.01
ZZ50381		0.89	46.1	3.23	3.58	0.05	0.06	0.21	0.033	0.06	10.8	19.7	0.68	386	1.99	<0.01
ZZ50382		2.44	60.4	3.32	3.37	0.06	0.08	0.13	0.035	0.06	10.1	20.9	0.54	302	1.60	<0.01
ZZ50383		0.73	50.2	2.82	4.00	0.05	0.04	0.18	0.031	0.06	12.5	17.3	0.48	511	1.66	<0.01
ZZ50384		0.74	43.0	3.21	4.42	<0.05	0.04	0.10	0.034	0.05	11.1	21.2	0.50	416	1.57	<0.01
ZZ50385		0.69	44.7	3.18	3.91	0.05	0.10	0.12	0.026	0.05	6.3	16.1	0.53	6290	2.36	<0.01
ZZ50386		0.98	38.8	2.79	4.82	0.06	0.09	0.15	0.030	0.07	10.8	26.3	0.70	1270	1.03	<0.01
ZZ50387		0.96	52.5	3.62	5.37	0.05	0.06	0.08	0.029	0.07	15.8	29.6	0.70	522	1.35	<0.01
ZZ50388		1.28	35.6	3.71	5.96	0.05	0.07	0.08	0.039	0.07	14.2	24.4	0.54	459	1.81	<0.01
ZZ50389		1.11	72.7	4.01	5.72	0.08	0.16	0.10	0.029	0.12	16.9	43.6	0.87	766	0.84	<0.01
ZZ50390		1.08	80.4	4.78	6.23	0.06	0.09	0.06	0.031	0.08	17.0	37.6	1.14	672	0.75	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ50351		1.32	16.8	500	17.4	9.8	<0.001	0.01	0.74	2.7	0.7	0.7	10.6	<0.01	0.04	3.3
ZZ50352		0.98	4.7	280	12.4	5.6	<0.001	0.02	0.38	1.0	0.4	0.9	7.2	<0.01	0.01	0.5
ZZ50353		0.28	47.5	680	22.1	10.5	<0.001	0.01	0.68	6.0	0.9	0.5	24.3	<0.01	0.10	4.3
ZZ50354		0.68	22.0	460	16.7	11.1	<0.001	0.02	0.59	3.9	0.3	0.6	19.3	<0.01	0.09	2.2
ZZ50355		0.57	26.6	930	22.4	10.5	0.001	0.03	0.63	5.3	1.0	0.6	22.3	<0.01	0.07	2.4
ZZ50356		0.31	36.9	520	18.6	7.5	<0.001	0.02	0.69	5.9	1.3	0.4	26.8	<0.01	0.10	2.7
ZZ50357		0.36	30.6	790	14.7	9.1	0.001	0.07	0.70	5.4	1.3	0.4	50.1	<0.01	0.08	1.3
ZZ50358		0.37	40.9	730	16.9	8.2	0.001	0.03	0.93	7.7	1.6	0.5	45.2	<0.01	0.11	2.9
ZZ50359		0.28	35.3	630	15.0	8.3	0.001	0.05	0.80	6.6	1.3	0.4	55.3	<0.01	0.09	1.8
ZZ50360		0.27	43.6	740	16.5	8.9	0.001	0.03	0.87	8.8	1.3	0.5	38.6	<0.01	0.11	3.2
ZZ50361		0.27	35.0	630	14.3	7.7	0.001	0.05	0.69	6.3	1.1	0.4	54.9	<0.01	0.08	1.9
ZZ50362		0.24	29.9	650	12.9	7.1	0.001	0.07	0.66	4.8	0.8	0.4	57.3	<0.01	0.07	1.3
ZZ50363		0.26	31.7	680	13.9	7.5	0.002	0.07	0.75	5.4	1.2	0.4	63.0	<0.01	0.07	1.3
ZZ50364		0.26	31.5	690	13.5	7.5	0.003	0.09	0.72	5.3	1.0	0.4	63.4	<0.01	0.08	1.5
ZZ50365		0.27	35.1	670	15.3	8.5	0.001	0.04	0.65	7.5	1.2	0.4	38.3	<0.01	0.08	2.7
ZZ50366		0.19	39.7	750	19.7	7.8	0.001	0.04	0.61	8.3	0.6	0.4	44.5	<0.01	0.07	3.8
ZZ50367		0.25	31.3	680	13.2	7.5	0.001	0.07	0.77	5.2	1.5	0.4	66.0	<0.01	0.08	1.4
ZZ50368		0.26	31.1	640	14.6	7.8	0.001	0.07	0.53	6.1	0.9	0.4	50.5	<0.01	0.07	1.9
ZZ50369		0.29	33.5	720	14.6	7.8	0.001	0.06	0.65	6.0	1.1	0.4	56.9	<0.01	0.08	1.9
ZZ50370		0.34	34.0	690	18.2	9.3	0.001	0.06	0.69	7.3	1.1	0.4	42.0	<0.01	0.11	2.7
ZZ50371		0.29	37.8	770	14.8	9.0	<0.001	0.07	0.67	6.4	1.4	0.4	52.9	<0.01	0.09	1.9
ZZ50372		0.36	29.2	720	16.2	9.1	0.001	0.07	0.57	5.8	1.2	0.4	41.4	<0.01	0.08	2.0
ZZ50373		0.39	31.2	750	16.9	8.9	0.002	0.10	0.69	6.3	1.1	0.4	46.5	<0.01	0.07	2.3
ZZ50374		0.40	33.4	980	15.4	9.3	0.001	0.10	0.82	6.2	1.8	0.4	51.7	<0.01	0.09	1.9
ZZ50375		0.45	31.9	740	17.5	10.8	0.002	0.09	0.68	6.7	1.6	0.5	40.6	<0.01	0.08	2.6
ZZ50376		0.34	26.1	710	13.2	8.8	<0.001	0.08	0.54	4.2	0.5	0.4	41.1	<0.01	0.04	1.4
ZZ50377		0.37	29.7	820	14.8	10.2	0.001	0.08	0.58	4.9	1.0	0.4	49.6	<0.01	0.06	1.5
ZZ50378		0.33	29.5	740	15.4	8.5	0.001	0.07	0.65	4.7	1.9	0.4	51.5	<0.01	0.09	1.5
ZZ50379		0.34	31.2	900	20.0	8.8	0.004	0.07	0.70	6.0	2.4	0.4	44.6	<0.01	0.09	2.1
ZZ50380		0.25	39.8	990	16.5	9.2	0.005	0.09	0.77	6.1	4.3	0.4	65.8	<0.01	0.10	1.7
ZZ50381		0.27	33.7	610	14.7	6.3	0.002	0.06	0.90	6.4	1.6	0.4	56.4	<0.01	0.09	1.7
ZZ50382		0.17	32.9	740	14.3	6.8	0.001	0.07	1.11	8.1	1.7	0.3	63.0	<0.01	0.10	1.4
ZZ50383		0.56	33.6	920	11.8	6.7	0.001	0.05	0.79	5.1	1.6	0.5	54.4	<0.01	0.06	1.4
ZZ50384		0.25	28.1	460	13.9	8.4	<0.001	0.02	0.65	5.8	0.9	0.4	29.6	<0.01	0.08	2.2
ZZ50385		0.28	31.3	1730	12.8	6.8	0.009	0.21	0.87	2.9	9.2	0.3	85.2	<0.01	0.08	0.7
ZZ50386		0.29	28.1	1050	15.6	8.7	0.006	0.11	0.47	6.2	5.1	0.4	48.6	<0.01	0.05	2.4
ZZ50387		0.47	33.7	460	17.5	8.0	0.001	0.02	0.75	6.6	1.0	0.5	28.6	<0.01	0.09	4.2
ZZ50388		0.75	33.9	270	17.4	10.6	<0.001	0.01	0.74	5.2	0.7	0.6	11.1	<0.01	0.07	4.6
ZZ50389		0.12	37.9	740	19.0	7.4	<0.001	0.01	0.58	7.0	0.7	0.3	34.3	<0.01	0.07	5.9
ZZ50390		0.15	38.4	220	19.8	6.7	<0.001	0.01	0.47	6.5	0.3	0.3	17.7	<0.01	0.10	4.6

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50351		0.030	0.15	0.67	54	0.30	3.40	84	1.0
ZZ50352		0.025	0.17	0.53	55	0.23	1.69	25	<0.5
ZZ50353		0.006	0.40	1.05	59	0.11	10.25	118	2.4
ZZ50354		0.014	0.20	0.57	66	0.21	3.85	97	0.8
ZZ50355		0.010	0.19	1.40	64	0.21	10.90	102	1.2
ZZ50356		0.007	0.15	0.93	55	0.13	12.35	118	1.8
ZZ50357		0.008	0.15	1.15	49	0.08	8.97	155	1.7
ZZ50358		0.009	0.17	0.75	53	0.06	13.60	134	2.8
ZZ50359		0.005	0.16	1.42	50	0.05	11.80	129	2.5
ZZ50360		0.007	0.17	0.76	56	<0.05	15.15	143	3.1
ZZ50361		0.005	0.13	1.31	47	0.05	12.35	123	2.2
ZZ50362		0.005	0.12	1.15	46	<0.05	10.10	122	2.0
ZZ50363		0.005	0.12	1.48	44	0.05	12.10	121	2.1
ZZ50364		0.005	0.11	1.37	48	<0.05	10.25	118	2.1
ZZ50365		0.005	0.12	1.00	52	0.08	13.15	120	2.6
ZZ50366		0.005	0.12	0.67	49	<0.05	12.35	114	3.5
ZZ50367		0.005	0.11	1.37	42	<0.05	11.90	108	2.3
ZZ50368		0.005	0.12	0.84	51	<0.05	10.75	113	2.2
ZZ50369		0.005	0.13	1.04	48	0.05	12.10	113	2.3
ZZ50370		0.005	0.15	1.18	52	0.05	14.60	116	2.8
ZZ50371		0.005	0.13	1.18	47	0.05	13.30	109	2.3
ZZ50372		0.005	0.14	1.61	50	0.06	11.60	125	2.2
ZZ50373		0.005	0.14	1.76	52	0.05	13.20	112	2.7
ZZ50374		0.005	0.12	2.98	50	0.09	14.60	112	2.9
ZZ50375		0.005	0.16	1.91	57	0.06	12.80	129	2.6
ZZ50376		0.007	0.11	0.73	43	0.09	7.68	156	1.7
ZZ50377		0.006	0.13	1.12	46	0.06	10.45	151	2.1
ZZ50378		0.006	0.12	1.59	46	0.05	11.20	133	1.9
ZZ50379		0.006	0.13	1.56	53	0.05	12.95	139	2.4
ZZ50380		<0.005	0.15	2.14	55	<0.05	16.55	171	2.2
ZZ50381		0.005	0.14	1.15	47	0.05	18.25	124	2.0
ZZ50382		<0.005	0.18	1.19	44	0.05	19.55	110	3.1
ZZ50383		0.014	0.10	1.32	49	0.14	18.70	116	1.6
ZZ50384		<0.005	0.13	0.94	53	0.05	12.15	86	1.3
ZZ50385		0.007	0.12	11.50	49	0.05	10.65	179	2.4
ZZ50386		0.006	0.13	5.78	47	<0.05	12.90	118	2.9
ZZ50387		0.011	0.12	0.93	52	0.10	12.85	88	2.2
ZZ50388		0.017	0.19	0.90	67	0.18	7.25	94	2.4
ZZ50389		0.005	0.09	0.60	39	<0.05	12.40	97	8.4
ZZ50390		<0.005	0.08	0.55	56	<0.05	7.26	90	3.1



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**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50391		0.24	0.005	0.35	1.13	14.3	<0.2	<10	1420	0.96	0.19	1.50	1.74	48.5	11.4	38
ZZ50392		0.23	0.003	0.22	1.60	18.6	<0.2	<10	570	0.75	0.22	1.14	1.01	23.3	13.0	30
ZZ50393		0.11	0.005	0.16	1.64	10.6	<0.2	<10	490	0.69	0.24	1.67	0.56	22.0	12.9	26
ZZ50394		0.19	0.003	0.25	1.68	14.1	<0.2	<10	490	0.91	0.26	0.98	0.77	28.8	19.8	30
ZZ50395		0.23	0.004	0.20	1.37	12.7	<0.2	<10	320	0.69	0.24	1.46	0.35	20.2	12.2	21
ZZ50396		0.21	0.005	0.28	1.53	15.0	<0.2	<10	320	0.91	0.25	1.08	0.34	25.3	13.0	25
ZZ50397		0.16	0.003	0.22	1.50	17.4	<0.2	<10	310	0.77	0.25	0.90	0.32	24.1	12.0	24
ZZ50398		0.21	0.007	0.13	1.72	17.7	<0.2	<10	300	0.81	0.29	0.54	0.18	30.1	16.9	27
ZZ50399		0.17	0.008	0.21	1.73	19.2	<0.2	<10	360	0.90	0.32	0.82	0.34	27.6	20.0	26
ZZ50400		0.16	0.009	0.20	1.69	19.1	<0.2	<10	260	0.86	0.30	0.62	0.55	27.9	18.1	28
ZZ50401		0.22	0.005	0.16	1.76	13.6	<0.2	<10	280	0.97	0.26	1.73	0.22	22.5	13.4	25
ZZ50402		0.27	0.004	0.17	1.64	18.1	<0.2	<10	160	0.90	0.29	0.60	0.44	30.5	21.3	24
ZZ50403		0.22	0.003	0.15	1.83	16.5	<0.2	<10	200	1.10	0.26	0.70	0.25	30.0	17.5	25
ZZ50404		0.16	0.004	0.13	1.58	12.9	<0.2	<10	160	0.81	0.24	1.59	0.24	21.2	15.0	23
ZZ50405		0.24	0.004	0.14	1.31	14.5	<0.2	<10	150	0.97	0.28	1.10	0.20	20.8	11.6	21
ZZ50406		0.26	0.004	0.07	1.26	70.6	<0.2	<10	210	0.57	0.28	0.87	0.18	18.25	10.3	20
ZZ50407		0.18	0.001	0.03	1.63	14.3	<0.2	<10	160	0.66	0.27	0.36	0.17	21.7	12.7	25
ZZ50408		0.25	0.003	0.03	1.70	10.2	<0.2	<10	180	0.56	0.27	0.10	0.11	24.7	6.5	22
ZZ50409		0.16	0.005	0.03	1.44	18.7	<0.2	<10	90	0.53	0.35	0.14	0.17	26.6	10.4	23
ZZ50410		0.22	0.001	0.03	1.67	18.9	<0.2	<10	160	0.56	0.30	0.16	0.21	26.0	8.1	26
ZZ50411		0.22	0.003	0.15	1.89	10.2	<0.2	<10	180	0.85	0.29	1.37	0.49	28.4	19.1	28
ZZ50412		0.21	0.003	0.07	2.33	16.9	<0.2	<10	220	0.76	0.31	0.25	0.10	35.5	20.6	33
ZZ50413		0.20	0.003	0.14	1.99	14.5	<0.2	<10	150	0.87	0.29	2.29	0.34	32.9	23.6	28
ZZ50414		0.30	0.004	0.10	2.10	17.4	<0.2	<10	140	0.98	0.30	0.68	0.25	33.8	22.7	31
ZZ50415		0.15	0.001	0.06	2.05	15.8	<0.2	<10	310	0.94	0.29	0.66	0.24	22.3	8.8	24
ZZ50416		0.12	0.004	0.03	1.20	15.2	<0.2	<10	140	0.29	0.31	0.12	0.12	26.2	5.8	18
ZZ50417		0.21	0.007	0.23	0.38	26.2	<0.2	<10	100	1.04	0.54	0.72	0.17	14.55	19.0	12
ZZ50418		0.17	0.007	0.06	0.53	60.6	<0.2	<10	120	0.42	0.31	0.11	0.09	9.98	6.9	11
ZZ50419		0.23	0.007	0.16	1.17	36.9	<0.2	<10	210	0.67	0.27	0.79	0.34	22.8	16.1	19
ZZ50420		0.12	0.007	0.03	2.25	19.4	<0.2	<10	200	0.98	0.31	0.29	0.17	30.9	19.4	30
ZZ50421		0.12	0.009	0.13	0.96	13.6	<0.2	<10	140	1.07	0.33	9.45	0.22	28.4	12.7	12
ZZ50422		0.12	0.001	0.08	2.17	11.3	<0.2	<10	290	0.76	0.30	0.45	0.31	24.0	7.9	28
ZZ50423		0.14	0.002	0.03	2.12	22.5	<0.2	<10	160	0.96	0.37	0.15	0.16	19.45	15.8	29
ZZ50424		0.11	0.005	0.03	1.14	11.1	<0.2	<10	120	0.28	0.26	1.10	0.32	18.65	7.4	19
ZZ50425		0.18	0.007	0.14	2.59	10.4	<0.2	<10	160	1.05	0.30	0.49	0.22	40.2	30.5	41
ZZ50426		0.14	0.006	0.16	2.31	9.7	<0.2	<10	220	1.17	0.26	1.45	0.15	28.2	17.8	32
ZZ50427		0.15	0.010	0.08	2.42	10.1	<0.2	<10	180	1.09	0.29	0.68	0.16	37.2	25.9	34
ZZ50428		0.14	0.006	0.05	1.67	70.6	<0.2	<10	150	0.65	0.28	0.39	0.31	25.3	11.5	27
ZZ50429		0.12	0.009	0.24	1.59	63.7	<0.2	<10	170	0.93	0.29	1.34	0.47	22.0	11.1	28
ZZ50430		0.18	0.003	0.03	1.50	10.9	<0.2	<10	100	0.33	0.32	0.07	0.13	27.7	6.1	21

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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ50391		0.63	53.4	2.96	3.72	0.07	0.06	0.17	0.042	0.06	22.6	15.0	0.51	541	1.38	0.01
ZZ50392		0.65	53.9	3.27	4.99	0.06	0.05	0.17	0.032	0.06	11.0	25.8	0.74	426	1.36	0.01
ZZ50393		0.62	46.3	3.18	4.95	0.05	0.06	0.13	0.029	0.05	10.2	24.9	0.76	654	0.72	0.01
ZZ50394		0.59	57.8	3.80	5.30	0.07	0.09	0.12	0.035	0.06	13.1	32.5	0.94	439	0.92	0.01
ZZ50395		0.67	51.2	3.04	3.92	<0.05	0.05	0.13	0.032	0.06	9.5	25.7	0.63	605	0.89	0.01
ZZ50396		0.82	79.0	3.25	4.34	0.05	0.05	0.21	0.031	0.08	12.6	25.9	0.63	697	0.90	0.01
ZZ50397		0.71	62.3	3.49	4.64	0.05	0.05	0.16	0.034	0.06	12.1	28.4	0.68	319	1.03	0.01
ZZ50398		1.04	55.2	3.95	5.17	0.05	0.10	0.05	0.037	0.09	13.4	35.7	0.86	700	1.10	0.01
ZZ50399		1.46	78.8	4.21	5.16	0.06	0.12	0.17	0.035	0.09	13.2	35.4	0.89	874	1.04	0.01
ZZ50400		1.33	59.4	4.19	5.27	0.06	0.08	0.13	0.035	0.09	13.2	29.8	0.77	817	1.12	0.01
ZZ50401		1.06	83.6	3.83	4.82	0.06	0.07	0.16	0.035	0.09	13.6	28.0	0.72	524	0.68	0.01
ZZ50402		1.22	81.6	4.29	4.89	0.06	0.10	0.11	0.033	0.08	14.5	32.8	0.84	768	1.63	0.01
ZZ50403		1.48	69.3	4.12	5.30	0.06	0.08	0.10	0.036	0.08	14.3	32.8	0.74	449	1.53	0.01
ZZ50404		1.09	66.3	3.60	4.64	0.06	0.06	0.09	0.029	0.08	10.2	30.3	0.80	611	0.74	0.01
ZZ50405		1.94	64.7	3.74	4.17	<0.05	0.05	0.10	0.038	0.08	10.7	23.4	0.57	326	1.01	0.01
ZZ50406		2.44	23.4	3.12	4.49	<0.05	0.04	0.07	0.027	0.06	7.9	25.3	0.38	564	1.17	0.01
ZZ50407		1.24	21.8	3.42	5.37	<0.05	0.03	0.02	0.030	0.05	10.0	29.7	0.46	380	1.01	0.01
ZZ50408		1.58	11.8	2.84	7.03	<0.05	0.02	0.02	0.028	0.03	12.8	23.8	0.29	272	1.54	0.01
ZZ50409		0.91	26.4	4.14	6.90	<0.05	0.03	0.03	0.032	0.06	12.7	32.0	0.42	268	2.27	0.01
ZZ50410		1.73	13.5	3.29	6.54	<0.05	0.03	0.02	0.030	0.05	12.7	25.3	0.37	255	2.23	0.01
ZZ50411		0.87	76.6	3.57	5.70	0.05	0.09	0.12	0.033	0.06	12.8	32.3	0.94	961	0.43	0.01
ZZ50412		1.55	47.1	4.38	6.44	<0.05	0.05	0.03	0.033	0.06	15.2	35.8	0.90	630	0.83	0.01
ZZ50413		1.32	90.5	4.39	5.91	0.06	0.07	0.17	0.033	0.10	15.4	41.3	1.16	890	0.56	0.01
ZZ50414		1.56	78.7	4.71	6.05	0.07	0.11	0.16	0.033	0.12	15.7	43.2	1.10	898	0.61	0.01
ZZ50415		1.45	9.5	3.60	6.65	<0.05	0.02	0.02	0.035	0.03	8.3	20.1	0.21	321	1.08	0.01
ZZ50416		1.55	12.0	3.08	6.42	<0.05	0.05	0.02	0.021	0.03	13.2	15.8	0.24	211	1.50	0.01
ZZ50417		4.05	52.5	4.93	1.19	<0.05	0.05	0.12	0.054	0.06	5.1	5.4	0.11	345	0.84	0.01
ZZ50418		2.61	22.6	2.66	2.52	<0.05	<0.02	0.18	0.021	0.07	4.2	7.0	0.10	115	0.85	0.01
ZZ50419		1.60	39.6	3.58	3.58	0.06	0.06	0.13	0.029	0.05	9.9	35.4	0.85	591	0.99	0.01
ZZ50420		1.78	30.1	4.67	5.74	<0.05	0.05	0.05	0.047	0.05	11.5	48.1	0.61	700	1.15	0.01
ZZ50421		0.56	27.3	3.45	2.39	0.05	0.06	0.08	0.043	0.05	12.9	7.3	0.21	490	0.67	0.01
ZZ50422		1.39	17.9	3.10	6.80	<0.05	<0.02	0.04	0.029	0.03	11.2	21.0	0.37	465	1.15	0.01
ZZ50423		2.78	24.6	5.96	5.88	<0.05	0.10	0.03	0.048	0.04	8.8	57.7	0.43	431	1.28	0.01
ZZ50424		0.99	18.2	2.61	4.97	<0.05	0.03	0.05	0.020	0.04	8.9	22.6	0.41	232	0.89	0.01
ZZ50425		1.54	135.0	5.33	7.79	0.08	0.14	0.13	0.039	0.13	18.4	41.9	1.55	895	0.66	0.01
ZZ50426		1.04	99.6	4.33	6.73	0.06	0.06	0.09	0.036	0.09	14.9	31.8	0.96	641	0.61	0.01
ZZ50427		1.08	104.5	5.24	7.24	0.07	0.12	0.09	0.036	0.11	16.6	42.6	1.25	712	0.56	0.01
ZZ50428		1.52	18.7	3.13	5.83	<0.05	0.03	0.02	0.031	0.06	11.6	41.2	0.48	477	2.40	0.01
ZZ50429		4.51	57.4	3.47	4.63	0.05	0.10	0.16	0.038	0.10	12.0	28.9	0.64	662	2.19	0.02
ZZ50430		2.27	12.2	2.50	7.06	<0.05	<0.02	0.05	0.022	0.07	13.5	8.8	0.20	299	2.08	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50391		0.28	35.0	1210	13.0	5.1	0.003	0.12	1.06	8.2	3.3	0.5	62.7	<0.01	0.06	3.4
ZZ50392		0.53	30.0	730	14.3	6.5	0.002	0.15	0.85	6.2	4.0	0.4	50.9	<0.01	0.06	3.2
ZZ50393		0.44	26.8	750	14.7	6.1	0.001	0.14	0.47	5.9	2.0	0.4	67.0	<0.01	0.06	2.3
ZZ50394		0.49	37.7	660	16.3	6.1	0.001	0.06	0.64	7.5	2.8	0.4	53.5	<0.01	0.10	4.1
ZZ50395		0.27	27.5	510	13.0	5.9	0.001	0.05	0.62	5.2	1.0	0.3	59.6	<0.01	0.05	1.5
ZZ50396		0.40	30.8	660	14.8	7.1	0.001	0.04	0.61	6.7	1.4	0.4	49.1	<0.01	0.05	2.1
ZZ50397		0.32	30.1	470	16.4	6.6	<0.001	0.04	0.61	6.8	0.7	0.4	39.0	<0.01	0.10	2.4
ZZ50398		0.24	34.9	420	19.8	7.2	0.001	0.02	0.67	5.6	0.6	0.3	32.3	<0.01	0.07	3.9
ZZ50399		0.19	38.8	370	20.4	6.5	<0.001	0.03	0.76	8.1	0.5	0.3	30.8	<0.01	0.10	4.4
ZZ50400		0.42	35.3	660	16.3	8.4	<0.001	0.02	0.58	8.0	0.9	0.5	35.1	<0.01	0.09	4.0
ZZ50401		0.30	30.1	650	16.7	7.3	<0.001	0.06	0.55	7.6	1.1	0.4	70.9	<0.01	0.07	1.7
ZZ50402		0.20	38.7	600	21.2	6.1	<0.001	0.03	0.90	8.5	0.7	0.3	36.9	<0.01	0.09	4.3
ZZ50403		0.20	36.4	350	16.9	8.5	<0.001	0.02	0.78	8.4	0.9	0.4	40.4	<0.01	0.07	4.3
ZZ50404		0.18	28.9	590	15.7	6.7	<0.001	0.06	0.56	5.7	0.6	0.3	63.5	<0.01	0.07	1.7
ZZ50405		0.31	32.7	510	18.3	7.8	<0.001	0.05	0.58	6.7	1.0	0.5	48.3	<0.01	0.08	2.3
ZZ50406		0.85	20.5	310	16.3	12.5	0.001	0.05	0.55	2.9	1.2	0.5	35.8	<0.01	0.07	2.0
ZZ50407		0.94	24.4	330	16.4	8.8	<0.001	0.02	0.56	2.9	<0.2	0.6	20.5	<0.01	0.04	3.2
ZZ50408		1.25	12.9	220	13.9	9.5	<0.001	0.01	0.47	2.7	<0.2	0.8	9.0	<0.01	0.04	3.0
ZZ50409		0.68	18.2	290	16.4	10.3	<0.001	0.01	0.56	3.0	0.5	0.6	12.7	<0.01	0.05	3.5
ZZ50410		1.44	17.9	210	15.6	10.1	<0.001	0.01	0.60	2.8	<0.2	0.8	13.7	<0.01	0.06	3.6
ZZ50411		0.33	32.7	630	22.5	7.5	<0.001	0.08	0.40	7.3	1.2	0.3	56.0	<0.01	0.09	2.9
ZZ50412		0.48	32.8	190	26.9	10.5	<0.001	0.01	0.53	5.0	0.2	0.5	15.3	<0.01	0.08	4.6
ZZ50413		0.19	36.8	720	27.1	6.4	<0.001	0.02	0.49	7.9	0.6	0.3	86.1	<0.01	0.08	3.8
ZZ50414		0.15	38.4	650	19.0	6.8	<0.001	0.03	0.46	8.1	0.4	0.3	38.8	<0.01	0.08	4.5
ZZ50415		1.24	13.3	370	19.4	5.4	<0.001	0.03	0.39	2.8	<0.2	0.8	31.1	0.01	0.06	1.7
ZZ50416		1.39	12.0	180	12.0	7.1	<0.001	0.01	0.59	2.0	<0.2	0.7	8.7	<0.01	0.05	3.4
ZZ50417		0.12	51.7	260	59.0	4.5	<0.001	0.03	0.84	7.8	1.4	0.5	46.1	<0.01	0.08	3.5
ZZ50418		0.19	17.7	340	14.8	7.4	<0.001	0.02	0.41	2.5	0.3	0.5	9.7	<0.01	0.07	1.8
ZZ50419		0.14	35.1	720	18.7	4.6	0.001	0.04	0.70	4.6	0.9	0.3	38.5	<0.01	0.08	4.3
ZZ50420		0.63	31.9	420	25.1	10.6	<0.001	0.02	0.59	4.2	0.3	0.5	22.0	<0.01	0.06	4.1
ZZ50421		0.32	29.0	400	24.1	6.3	<0.001	0.04	0.34	6.9	0.8	0.5	397	<0.01	0.12	4.2
ZZ50422		0.95	17.6	550	18.3	7.5	<0.001	0.04	0.36	2.7	0.3	0.8	25.7	<0.01	0.04	1.3
ZZ50423		0.68	21.9	480	23.8	11.9	<0.001	0.02	0.55	3.2	0.3	0.5	12.4	<0.01	0.07	3.5
ZZ50424		0.75	15.7	370	12.7	7.0	<0.001	0.04	0.46	2.2	<0.2	0.5	42.6	<0.01	0.05	1.8
ZZ50425		0.15	45.8	670	17.7	7.2	<0.001	0.02	0.42	11.2	0.8	0.4	29.7	<0.01	0.09	5.1
ZZ50426		0.25	34.3	660	16.9	8.8	0.001	0.04	0.40	6.6	0.9	0.4	65.6	<0.01	0.08	1.9
ZZ50427		0.19	39.9	520	19.9	8.2	<0.001	0.03	0.42	9.2	0.9	0.4	33.9	<0.01	0.10	4.1
ZZ50428		1.06	21.8	340	14.8	12.2	<0.001	0.01	0.56	3.5	<0.2	0.6	24.0	<0.01	0.06	2.5
ZZ50429		0.47	32.1	1410	14.1	15.4	0.001	0.09	0.65	7.0	2.0	0.4	61.6	<0.01	0.07	1.5
ZZ50430		1.64	12.7	310	10.6	14.8	0.001	0.01	0.80	1.9	0.2	0.9	9.0	<0.01	0.07	1.4



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50391		<0.005	0.10	1.44	69	<0.05	24.1	114	2.1
ZZ50392		0.008	0.11	4.82	61	0.07	11.70	101	2.0
ZZ50393		0.008	0.09	3.24	52	0.07	10.30	73	1.9
ZZ50394		0.010	0.07	2.10	54	0.07	13.05	91	3.3
ZZ50395		0.006	0.09	1.58	38	0.05	10.70	83	1.3
ZZ50396		0.009	0.09	1.31	42	0.09	16.15	82	1.6
ZZ50397		0.006	0.07	0.77	47	0.05	13.55	85	1.7
ZZ50398		0.005	0.08	0.97	42	<0.05	7.47	95	2.8
ZZ50399		<0.005	0.10	0.58	42	<0.05	13.30	103	4.0
ZZ50400		0.011	0.10	0.79	49	0.09	13.05	109	2.4
ZZ50401		0.006	0.09	1.15	41	0.07	21.1	72	1.8
ZZ50402		0.005	0.13	0.56	44	<0.05	13.60	111	3.7
ZZ50403		<0.005	0.14	0.60	45	0.05	14.90	99	3.5
ZZ50404		<0.005	0.08	1.19	38	<0.05	9.36	84	1.9
ZZ50405		<0.005	0.12	0.80	32	0.10	12.20	85	1.7
ZZ50406		0.015	0.41	1.19	38	0.23	3.73	57	1.2
ZZ50407		0.017	0.10	0.49	45	0.24	3.05	72	1.1
ZZ50408		0.019	0.12	0.43	60	0.24	2.52	45	0.9
ZZ50409		0.011	0.08	0.43	53	0.11	2.48	64	1.2
ZZ50410		0.029	0.13	0.60	60	0.27	3.08	61	1.1
ZZ50411		0.006	0.07	1.98	46	0.05	11.90	62	2.8
ZZ50412		0.009	0.12	0.58	56	0.10	4.32	70	2.3
ZZ50413		0.006	0.08	0.54	46	<0.05	12.75	91	2.2
ZZ50414		<0.005	0.09	0.52	48	<0.05	10.85	96	4.0
ZZ50415		0.019	0.13	0.32	68	0.24	3.39	80	0.8
ZZ50416		0.029	0.13	0.43	66	0.25	2.01	39	1.5
ZZ50417		<0.005	0.37	0.81	18	<0.05	16.75	130	1.9
ZZ50418		<0.005	0.14	0.43	25	0.07	3.37	55	0.5
ZZ50419		<0.005	0.08	0.86	25	<0.05	10.15	117	2.7
ZZ50420		0.009	0.13	0.61	48	0.12	5.19	73	2.3
ZZ50421		<0.005	0.07	1.77	22	0.11	17.60	88	1.8
ZZ50422		0.015	0.15	0.75	65	0.22	5.22	57	<0.5
ZZ50423		0.008	0.11	0.64	48	0.12	3.49	55	3.4
ZZ50424		0.018	0.07	0.43	41	0.15	2.48	44	1.0
ZZ50425		0.007	0.07	0.40	68	<0.05	13.30	93	5.3
ZZ50426		0.005	0.06	0.76	55	0.06	15.25	65	1.7
ZZ50427		<0.005	0.07	1.05	57	<0.05	12.30	76	3.6
ZZ50428		0.024	0.16	1.67	52	0.24	4.31	82	1.0
ZZ50429		0.014	0.09	6.01	35	0.11	15.00	121	2.5
ZZ50430		0.043	0.21	0.60	60	0.32	2.82	63	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50431		0.21	0.006	0.04	1.78	14.2	<0.2	<10	90	0.32	0.34	0.07	0.20	22.5	7.8	33
ZZ50432		0.16	0.002	0.04	1.47	14.2	<0.2	<10	80	0.32	0.31	0.05	0.16	20.0	8.4	30
ZZ50433		0.14	0.004	0.04	1.25	11.0	<0.2	<10	90	0.30	0.29	0.05	0.16	21.8	6.2	25
ZZ50434		0.17	0.002	0.04	1.65	12.3	<0.2	<10	130	0.37	0.29	0.08	0.22	24.6	7.7	28
ZZ50435		0.14	0.004	0.05	1.25	15.3	<0.2	<10	510	0.51	0.34	0.27	0.40	15.45	9.2	23
ZZ50436		0.15	0.003	0.06	1.55	11.9	<0.2	<10	140	0.72	0.30	0.05	0.18	17.85	8.1	23
ZZ50437		0.22	0.004	0.10	2.00	15.4	<0.2	<10	150	0.54	0.28	0.10	0.56	26.4	11.4	31
ZZ50438		0.16	0.004	0.09	1.61	11.8	<0.2	<10	110	0.33	0.26	0.07	0.23	24.8	6.4	28
ZZ50439		0.12	0.004	0.20	1.42	12.5	<0.2	<10	140	0.40	0.31	0.06	0.55	22.1	6.9	25
ZZ50440		0.22	0.002	0.07	1.50	12.3	<0.2	<10	350	0.48	0.31	0.13	0.17	27.1	7.7	24
ZZ50441		0.21	0.001	0.30	2.22	13.5	<0.2	<10	690	1.03	0.27	0.28	0.18	22.8	11.0	29
ZZ50442		0.15	0.002	0.11	1.39	25.3	<0.2	<10	190	0.76	0.31	0.11	0.55	36.1	20.1	27
ZZ50443		0.17	0.011	0.41	0.68	17.6	<0.2	<10	200	0.72	0.25	0.60	1.06	35.4	16.6	11
ZZ50444		0.21	0.009	0.96	0.74	39.0	<0.2	<10	480	0.88	0.22	1.29	11.30	24.9	23.2	35
ZZ50445		0.15	0.008	0.60	1.30	21.4	<0.2	<10	1010	0.76	0.21	1.23	2.56	16.85	10.2	28
ZZ50446		0.28	0.007	0.48	1.14	38.0	<0.2	<10	1170	0.75	0.23	0.78	3.34	17.05	12.6	24
ZZ50447		0.15	0.006	0.31	1.59	23.3	<0.2	<10	940	0.77	0.25	1.27	2.70	17.35	8.2	29
ZZ50448		0.12	0.003	0.20	0.89	23.0	<0.2	<10	510	0.58	0.24	0.26	1.57	15.10	7.5	19
ZZ50449		0.23	0.002	0.12	1.88	22.5	<0.2	<10	320	0.86	0.25	0.21	2.88	31.0	15.2	33
ZZ50450		0.12	0.008	0.27	0.77	6.3	<0.2	<10	220	0.29	0.24	0.25	1.35	14.75	10.4	17
ZZ50451		0.13	0.104	4.84	0.90	22.0	<0.2	<10	1100	0.73	0.28	0.33	1.97	17.90	5.1	35
ZZ50452		0.21	0.003	0.82	1.28	11.0	<0.2	<10	2850	0.68	0.19	2.27	7.25	15.30	7.9	32
ZZ50453		0.10	0.006	0.34	1.18	9.9	<0.2	<10	2080	0.54	0.19	3.34	5.50	14.85	8.6	23
ZZ50454		0.13	0.002	0.46	1.03	12.6	<0.2	<10	540	0.50	0.20	7.39	4.27	17.40	10.5	21
ZZ50455		0.17	0.009	0.61	0.97	15.7	<0.2	<10	400	0.51	0.22	4.82	3.98	18.30	11.2	25
ZZ50456		0.13	0.003	0.30	0.67	11.2	<0.2	<10	450	0.42	0.24	5.12	1.72	19.55	6.0	25
ZZ50457		0.13	0.002	0.44	1.63	17.9	<0.2	<10	2360	0.86	0.27	1.54	6.52	24.6	18.1	34
ZZ50458		0.12	0.007	0.89	1.10	31.4	<0.2	<10	1000	0.99	0.19	3.68	16.90	13.55	30.8	25
ZZ50459		0.15	0.009	0.49	1.42	17.7	<0.2	<10	700	0.79	0.25	2.41	7.28	15.50	19.4	30
ZZ50460		0.12	0.006	0.46	1.24	12.0	<0.2	<10	650	0.67	0.26	2.24	3.55	21.0	12.1	32

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**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50431		1.52	13.6	3.74	6.93	<0.05	<0.02	0.05	0.030	0.07	11.4	14.2	0.44	472	1.91	0.01
ZZ50432		1.92	14.4	3.33	6.66	<0.05	<0.02	0.04	0.029	0.05	9.5	13.4	0.37	380	1.87	0.01
ZZ50433		1.85	12.4	2.82	6.24	<0.05	<0.02	0.02	0.027	0.06	10.4	10.0	0.27	404	1.65	0.01
ZZ50434		1.54	13.4	3.34	7.09	<0.05	<0.02	0.03	0.031	0.06	12.3	15.3	0.38	415	1.64	0.01
ZZ50435		2.86	21.2	3.46	5.05	<0.05	<0.02	0.02	0.029	0.11	6.1	13.4	0.42	523	2.16	0.02
ZZ50436		2.24	22.3	3.00	4.67	<0.05	<0.02	0.07	0.029	0.07	7.6	15.8	0.31	309	1.53	0.02
ZZ50437		1.46	21.6	3.57	6.29	<0.05	<0.02	0.05	0.030	0.06	13.0	22.1	0.50	448	2.38	0.02
ZZ50438		1.92	18.1	3.12	6.27	<0.05	<0.02	0.04	0.026	0.05	11.9	11.0	0.29	240	2.94	0.02
ZZ50439		1.67	19.0	3.07	6.00	<0.05	<0.02	0.10	0.026	0.07	9.9	10.2	0.26	669	2.72	0.02
ZZ50440		1.51	16.2	2.81	5.99	<0.05	<0.02	0.03	0.025	0.06	14.0	11.9	0.26	394	1.78	0.02
ZZ50441		1.76	20.0	3.29	6.13	<0.05	0.04	0.03	0.040	0.06	9.8	35.4	0.37	425	1.77	0.01
ZZ50442		1.15	33.5	3.94	3.97	0.05	0.05	0.08	0.043	0.06	14.7	28.5	0.47	1340	1.96	0.01
ZZ50443		1.33	71.1	3.93	2.05	0.07	0.02	0.07	0.040	0.08	16.9	7.3	0.12	493	6.96	0.01
ZZ50444		0.68	65.6	5.82	2.48	0.06	0.09	0.21	0.037	0.07	11.1	8.4	0.26	1420	19.25	0.02
ZZ50445		0.81	31.5	3.30	3.53	<0.05	0.11	0.29	0.032	0.06	8.5	12.0	0.38	996	5.29	0.02
ZZ50446		0.79	37.8	3.58	3.46	0.05	0.10	0.15	0.028	0.06	9.3	13.1	0.30	846	14.15	0.01
ZZ50447		0.87	62.3	6.26	4.43	<0.05	0.05	0.08	0.038	0.07	7.8	13.2	0.39	341	14.75	0.02
ZZ50448		1.12	32.4	2.42	3.64	<0.05	<0.02	0.02	0.037	0.09	6.8	8.3	0.19	294	18.40	0.01
ZZ50449		1.28	33.1	3.60	4.91	0.05	0.07	0.03	0.040	0.07	11.3	26.0	0.64	611	7.14	0.01
ZZ50450		0.86	13.0	1.71	4.28	<0.05	<0.02	0.04	0.017	0.06	5.2	3.5	0.09	1440	9.10	0.01
ZZ50451		0.59	51.7	2.77	4.60	0.07	<0.02	0.08	0.042	0.14	10.1	3.5	0.11	289	13.00	0.02
ZZ50452		0.40	19.2	2.16	3.20	<0.05	0.07	0.09	0.029	0.04	12.4	7.0	0.31	505	7.83	0.01
ZZ50453		0.41	19.3	1.99	3.15	0.05	0.03	0.09	0.024	0.04	13.9	7.2	0.27	807	4.80	0.01
ZZ50454		0.43	21.3	2.23	2.67	0.05	0.02	0.09	0.024	0.05	14.5	7.5	0.28	837	12.50	0.02
ZZ50455		0.42	24.7	2.38	2.57	0.06	0.02	0.12	0.030	0.06	15.5	7.0	0.25	856	21.5	0.02
ZZ50456		0.88	24.2	2.86	1.93	0.06	0.03	0.15	0.035	0.05	10.6	3.8	0.13	759	1.14	0.02
ZZ50457		0.97	19.7	3.20	4.80	0.05	0.03	0.10	0.032	0.05	17.2	10.5	0.28	639	8.10	0.01
ZZ50458		0.59	32.9	3.36	3.16	0.05	0.04	0.26	0.037	0.05	17.2	6.1	0.16	1020	30.5	0.02
ZZ50459		0.74	28.9	2.74	3.76	0.06	0.04	0.28	0.037	0.05	15.3	6.6	0.20	1360	8.64	0.02
ZZ50460		0.64	23.4	2.38	3.56	0.06	0.03	0.12	0.032	0.06	18.2	9.0	0.29	949	3.14	0.02

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Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50431		1.12	17.6	510	16.7	13.2	<0.001	0.04	0.94	1.7	0.7	0.8	8.6	<0.01	0.04	0.6
ZZ50432		0.84	17.6	490	16.3	8.6	<0.001	0.04	0.86	1.3	0.4	0.8	7.1	<0.01	0.04	0.4
ZZ50433		0.50	13.7	690	11.8	13.1	<0.001	0.04	0.68	0.6	0.2	0.8	8.2	<0.01	0.04	<0.2
ZZ50434		0.66	18.5	560	12.0	9.9	<0.001	0.04	0.75	0.7	<0.2	0.8	9.2	<0.01	0.04	0.2
ZZ50435		0.27	20.5	1210	15.1	26.4	<0.001	0.05	0.87	0.9	<0.2	0.6	32.7	<0.01	0.04	0.2
ZZ50436		0.53	18.7	720	15.8	11.7	<0.001	0.05	0.59	1.0	0.3	0.5	7.1	<0.01	0.04	0.3
ZZ50437		0.55	27.5	880	16.5	9.4	0.001	0.03	0.86	1.5	0.9	0.6	11.5	<0.01	0.05	0.5
ZZ50438		0.32	18.1	1080	11.5	11.4	<0.001	0.04	0.97	0.5	0.6	0.8	8.4	<0.01	0.05	0.2
ZZ50439		0.33	16.5	1530	13.3	16.4	<0.001	0.09	0.77	0.5	0.6	0.7	8.4	<0.01	0.04	<0.2
ZZ50440		0.27	16.3	1510	13.8	13.4	<0.001	0.06	0.52	0.6	0.3	0.7	13.3	<0.01	0.04	0.2
ZZ50441		0.51	22.1	1390	14.4	13.5	<0.001	0.04	0.49	2.5	0.5	0.7	12.4	<0.01	0.05	1.0
ZZ50442		0.36	33.1	1100	23.3	9.0	<0.001	0.03	0.75	3.4	0.8	0.4	13.2	<0.01	0.06	2.9
ZZ50443		0.17	43.0	2180	25.1	7.8	0.002	0.03	2.31	3.0	2.3	0.4	28.9	<0.01	0.10	0.8
ZZ50444		0.31	107.5	1690	16.8	6.7	0.008	0.10	3.53	6.6	2.7	0.5	79.5	<0.01	0.09	2.0
ZZ50445		0.39	39.4	1730	12.1	9.8	0.008	0.14	1.53	3.3	1.6	0.4	53.3	<0.01	0.04	0.9
ZZ50446		0.40	56.0	1660	13.0	7.1	0.006	0.04	2.25	4.2	1.6	0.4	38.7	<0.01	0.08	1.8
ZZ50447		0.71	36.4	2380	13.3	8.9	0.011	0.11	3.01	3.7	3.9	0.5	31.7	<0.01	0.05	0.9
ZZ50448		0.30	34.6	1190	13.9	13.1	0.002	0.09	3.26	0.5	2.3	0.5	35.0	<0.01	0.07	<0.2
ZZ50449		0.47	47.7	1120	21.3	10.9	0.001	0.03	1.26	3.3	1.4	0.5	22.7	<0.01	0.09	1.8
ZZ50450		0.18	11.6	1680	15.1	5.4	<0.001	0.06	0.78	0.2	0.9	0.7	14.0	<0.01	0.05	<0.2
ZZ50451		0.21	18.6	4130	20.2	9.7	0.002	0.27	5.25	0.1	15.9	0.9	100.5	<0.01	0.13	<0.2
ZZ50452		0.54	47.0	2590	11.7	4.6	<0.001	0.14	0.97	1.8	2.0	0.4	41.3	<0.01	0.04	0.5
ZZ50453		0.51	31.0	1940	10.9	4.0	0.001	0.19	0.86	1.0	1.5	0.4	30.2	<0.01	0.06	0.2
ZZ50454		0.39	57.1	1620	11.5	5.0	0.001	0.14	1.02	0.9	1.8	0.4	42.0	<0.01	0.11	0.2
ZZ50455		0.36	56.6	1820	12.9	4.7	0.001	0.17	1.31	1.0	3.0	0.5	33.3	<0.01	0.11	0.3
ZZ50456		0.25	30.6	2480	14.1	6.1	0.001	0.13	1.74	1.5	1.2	0.5	50.2	<0.01	0.16	0.4
ZZ50457		0.67	108.0	1350	15.5	6.6	0.001	0.09	1.90	2.4	1.4	0.7	24.6	<0.01	0.10	0.6
ZZ50458		0.41	305	2510	12.0	6.0	0.005	0.21	4.16	1.3	3.6	0.5	33.3	<0.01	0.15	0.2
ZZ50459		0.51	160.5	1820	13.4	6.5	0.001	0.21	2.62	1.4	3.2	0.6	29.3	<0.01	0.14	0.3
ZZ50460		0.52	55.1	1750	14.3	7.0	0.001	0.14	1.37	1.7	2.1	0.5	29.7	<0.01	0.12	0.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193039**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50431		0.052	0.18	0.72	62	0.34	2.76	85	<0.5
ZZ50432		0.039	0.15	0.67	57	0.26	2.59	75	<0.5
ZZ50433		0.021	0.17	0.72	51	0.21	2.70	70	<0.5
ZZ50434		0.024	0.14	0.57	54	0.25	2.73	74	<0.5
ZZ50435		0.010	0.10	0.51	41	0.10	2.77	131	<0.5
ZZ50436		0.013	0.14	0.55	38	0.14	3.32	76	<0.5
ZZ50437		0.018	0.17	0.78	60	0.22	4.14	119	<0.5
ZZ50438		0.011	0.19	0.64	63	0.39	3.38	82	<0.5
ZZ50439		0.009	0.25	0.86	61	0.17	2.75	107	<0.5
ZZ50440		0.008	0.22	0.81	53	0.15	3.62	68	<0.5
ZZ50441		0.007	0.21	0.87	61	0.16	4.91	83	0.8
ZZ50442		0.006	0.15	1.95	41	0.33	8.91	123	1.3
ZZ50443		<0.005	0.19	1.15	28	0.05	17.30	212	<0.5
ZZ50444		0.005	0.20	3.14	388	0.12	21.3	576	2.7
ZZ50445		0.009	0.70	6.78	116	0.09	14.55	299	2.5
ZZ50446		0.008	0.55	2.61	92	0.23	14.70	251	2.8
ZZ50447		0.019	0.35	10.90	155	0.22	11.35	287	1.3
ZZ50448		0.007	0.77	2.68	111	0.18	5.32	163	<0.5
ZZ50449		0.007	0.36	2.45	81	0.13	9.70	235	1.8
ZZ50450		0.005	0.41	0.96	104	0.12	2.48	98	<0.5
ZZ50451		<0.005	1.26	6.00	237	0.29	10.75	72	<0.5
ZZ50452		0.011	0.16	7.57	78	0.15	27.7	389	2.5
ZZ50453		0.009	0.18	8.61	65	0.10	29.0	282	0.8
ZZ50454		0.009	0.52	1.59	56	0.18	31.5	353	0.5
ZZ50455		0.008	0.91	2.11	60	0.19	37.5	309	0.8
ZZ50456		<0.005	0.13	3.03	67	0.09	24.9	198	0.8
ZZ50457		0.017	0.30	4.42	105	0.28	30.4	499	0.7
ZZ50458		0.005	0.51	12.00	110	0.23	52.2	1700	1.1
ZZ50459		0.007	0.49	14.35	110	0.15	43.2	852	1.1
ZZ50460		0.012	0.20	5.31	88	0.16	39.2	279	0.7



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Project: ATAC- Regional - Area E/D

**CERTIFICATE OF ANALYSIS WH12193039**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12193051**

Project: ATAC- Regional- Area B- Dale West  
 P.O. No.: Soil 32  
 This report is for 140 Soil samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional- Area B- Dale West

**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ49398		0.15	0.009	0.41	1.31	15.6	<0.2	<10	660	0.73	0.24	1.45	2.10	18.60	10.1	25
ZZ49399		0.14	0.006	0.31	1.54	17.2	<0.2	<10	590	0.71	0.27	0.94	1.05	23.8	12.5	27
ZZ49400		0.22	0.006	0.16	1.65	46.5	<0.2	<10	260	1.19	0.31	0.25	0.88	32.3	18.8	25
ZZ49401		0.16	0.016	6.35	1.10	46.2	<0.2	<10	690	1.41	0.22	1.17	39.8	20.1	7.2	109
ZZ49402		0.28	0.003	1.00	0.73	23.0	<0.2	<10	100	0.40	0.25	0.07	1.02	16.70	3.2	55
ZZ49403		0.14	0.009	0.14	1.30	25.2	<0.2	<10	70	0.34	0.34	0.02	0.30	16.30	7.6	26
ZZ49404		0.18	0.004	0.29	0.52	19.4	<0.2	<10	80	0.15	0.26	0.01	0.35	15.90	2.4	15
ZZ49405		0.12	0.012	0.89	0.45	48.7	<0.2	<10	230	0.25	0.27	0.07	1.00	11.50	4.7	18
ZZ49406		0.19	0.016	0.70	1.10	34.1	<0.2	<10	560	0.65	0.24	0.26	2.82	14.65	9.9	22
ZZ49407		0.21	0.007	0.46	1.22	22.3	<0.2	<10	570	0.64	0.21	0.47	1.40	16.00	6.8	21
ZZ49408		0.20	0.013	0.54	1.08	21.2	<0.2	<10	720	0.62	0.22	0.26	1.03	13.10	6.8	18
ZZ49409		0.24	0.009	0.67	0.94	23.4	<0.2	<10	910	0.68	0.22	0.21	1.07	12.25	8.2	18
ZZ49410		0.15	0.026	2.68	0.75	86.5	<0.2	<10	140	0.24	0.34	0.03	0.40	18.15	3.6	22
ZZ49411		0.19	0.005	0.19	0.76	54.2	<0.2	<10	140	0.15	0.36	0.03	0.55	17.70	2.6	18
ZZ49412		0.17	0.023	0.56	1.30	33.3	<0.2	<10	140	0.34	0.28	0.04	0.65	15.80	5.8	25
ZZ49413		0.21	0.014	0.55	1.68	35.6	<0.2	<10	340	0.68	0.29	0.06	2.68	19.65	9.6	30
ZZ49414		0.11	0.018	1.20	0.60	54.8	<0.2	<10	290	0.45	0.34	0.03	2.86	7.88	2.9	30
ZZ49415		0.09	0.018	5.68	1.28	108.0	<0.2	<10	1110	0.53	0.27	0.21	4.22	17.30	5.9	21
ZZ49416		0.23	0.006	0.46	0.89	18.1	<0.2	<10	380	0.35	0.25	0.03	0.61	11.65	5.3	15
ZZ49417		0.19	0.019	0.64	0.49	40.0	<0.2	<10	780	0.25	0.22	0.02	0.45	7.00	3.2	13
ZZ49418		0.23	0.014	2.06	0.57	105.0	<0.2	<10	1020	1.37	0.35	0.16	11.50	19.25	10.1	29
ZZ49419		0.12	0.010	0.55	0.86	134.5	<0.2	<10	400	0.59	0.22	2.02	3.36	14.75	7.7	18
ZZ49420		0.10	0.014	1.30	0.70	222	<0.2	10	1040	0.60	0.20	1.77	5.14	11.25	7.8	23
ZZ49421		0.16	0.006	0.53	0.91	153.5	<0.2	<10	640	0.65	0.21	2.42	8.88	14.60	8.5	25
ZZ49422		0.16	0.049	1.59	0.53	150.0	<0.2	<10	1010	0.66	0.22	0.56	2.36	9.04	5.6	20
ZZ49423		0.15	0.006	0.56	1.14	161.0	<0.2	<10	480	0.95	0.30	0.49	1.83	21.7	13.3	22
ZZ49424		0.13	0.028	1.80	0.59	197.5	<0.2	<10	1320	0.62	0.19	1.02	3.24	8.73	5.2	23
ZZ49425		0.18	0.030	2.14	0.68	184.0	<0.2	<10	1420	0.66	0.23	0.82	4.55	10.80	5.8	27
ZZ49426		0.19	0.029	2.23	0.76	116.5	<0.2	<10	1070	0.75	0.23	1.05	4.72	14.65	7.1	25
ZZ49427		0.14	0.006	0.52	0.76	21.9	<0.2	10	270	0.73	0.17	2.00	3.50	17.90	10.4	16
ZZ49428		0.16	0.010	0.43	1.08	45.9	<0.2	<10	300	0.79	0.19	1.65	2.92	18.45	18.8	21
ZZ49429		0.30	0.005	0.27	1.17	40.7	<0.2	<10	460	0.88	0.27	3.14	3.62	16.40	11.3	22
ZZ49430		0.13	0.005	0.45	1.29	33.1	<0.2	<10	450	0.78	0.25	1.90	1.92	18.90	10.1	25
ZZ49431		0.17	0.010	0.64	1.06	18.0	<0.2	<10	310	0.69	0.22	2.09	2.92	16.90	8.6	25
ZZ49432		0.17	0.005	1.08	0.51	25.0	<0.2	<10	180	0.75	0.18	5.83	9.52	20.9	5.2	42
ZZ49433		0.15	0.003	0.67	0.82	17.4	<0.2	<10	300	0.65	0.18	2.98	5.09	18.30	6.5	29
ZZ49434		0.12	0.148	1.05	0.83	17.1	<0.2	<10	320	0.79	0.19	3.00	8.92	17.60	7.0	35
ZZ49435		0.09	0.010	1.53	0.55	17.2	<0.2	10	240	0.75	0.15	4.40	10.35	16.60	6.5	44
ZZ49436		0.17	0.004	2.01	0.60	16.8	<0.2	10	290	0.83	0.17	3.47	17.25	18.80	7.6	64
ZZ49437		0.15	0.004	1.10	0.88	36.2	<0.2	<10	270	0.63	0.20	2.08	4.49	18.05	8.1	37



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**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ49398		1.42	38.2	2.47	4.16	0.05	0.06	0.20	0.029	0.06	9.9	16.5	0.43	636	2.70	<0.01
ZZ49399		1.33	32.1	2.85	5.00	0.05	0.05	0.15	0.031	0.06	10.6	17.6	0.47	501	3.82	<0.01
ZZ49400		1.89	49.6	4.17	4.65	0.06	0.04	0.09	0.038	0.08	13.6	26.5	0.48	903	3.87	<0.01
ZZ49401		2.33	159.0	2.17	5.18	0.09	0.02	0.56	0.031	0.10	15.9	9.8	0.16	388	38.7	<0.01
ZZ49402		1.83	54.6	1.63	6.20	0.06	<0.02	0.06	0.020	0.05	8.4	2.5	0.04	58	19.50	<0.01
ZZ49403		2.18	28.3	5.56	6.72	<0.05	0.03	0.07	0.030	0.06	7.2	16.1	0.29	281	8.05	<0.01
ZZ49404		2.96	21.3	1.21	5.14	0.05	<0.02	0.04	0.012	0.04	7.8	1.1	0.03	42	14.60	<0.01
ZZ49405		3.99	45.7	2.09	4.30	0.06	<0.02	0.07	0.029	0.10	6.6	1.9	0.04	100	36.0	<0.01
ZZ49406		2.37	48.2	2.72	3.93	<0.05	0.06	0.26	0.034	0.09	6.2	14.4	0.36	383	8.23	<0.01
ZZ49407		1.71	35.5	2.38	3.84	0.06	0.07	0.23	0.030	0.07	7.1	13.7	0.32	260	5.82	<0.01
ZZ49408		2.77	37.4	2.43	3.72	<0.05	0.06	0.21	0.034	0.09	5.6	9.1	0.23	196	5.58	<0.01
ZZ49409		4.69	50.3	2.49	3.59	<0.05	0.03	0.27	0.034	0.09	5.3	9.0	0.19	263	6.70	<0.01
ZZ49410		3.53	26.6	3.21	7.45	0.05	<0.02	0.13	0.034	0.07	10.0	3.0	0.09	133	27.1	<0.01
ZZ49411		3.02	17.0	2.03	7.17	<0.05	<0.02	0.05	0.017	0.06	9.0	3.2	0.08	67	11.75	<0.01
ZZ49412		2.78	20.5	3.24	6.35	<0.05	<0.02	0.06	0.033	0.08	7.8	11.0	0.23	259	15.10	<0.01
ZZ49413		4.06	29.1	2.75	6.15	0.05	<0.02	0.10	0.033	0.09	10.0	10.4	0.20	421	17.35	<0.01
ZZ49414		5.10	47.1	2.82	4.37	<0.05	<0.02	0.06	0.036	0.10	5.0	0.8	0.03	33	69.5	<0.01
ZZ49415		12.70	57.1	5.13	3.77	0.07	0.02	0.91	0.042	0.10	8.3	3.4	0.08	50	27.6	<0.01
ZZ49416		4.51	33.4	2.45	3.60	<0.05	<0.02	0.09	0.030	0.09	5.5	4.1	0.11	145	4.17	<0.01
ZZ49417		6.52	41.7	2.32	2.58	<0.05	0.02	0.19	0.037	0.13	3.4	1.0	0.03	32	8.45	<0.01
ZZ49418		7.08	114.5	7.82	3.15	0.08	<0.02	0.59	0.057	0.17	6.5	1.8	0.08	789	11.75	0.01
ZZ49419		1.31	44.8	2.39	2.68	<0.05	0.07	1.17	0.028	0.07	8.5	11.1	0.49	329	3.55	0.01
ZZ49420		1.65	56.1	2.65	2.20	0.05	0.06	0.60	0.030	0.07	6.8	7.3	0.27	238	5.63	<0.01
ZZ49421		1.92	38.7	2.48	2.92	0.05	0.07	0.43	0.027	0.08	7.4	12.8	0.72	233	3.12	<0.01
ZZ49422		2.71	53.2	2.14	1.97	0.05	0.04	0.98	0.040	0.08	4.9	4.4	0.11	216	7.44	<0.01
ZZ49423		1.91	49.4	3.21	3.94	0.05	0.05	0.46	0.037	0.09	9.3	16.4	0.34	572	4.97	<0.01
ZZ49424		2.55	50.9	2.02	2.10	0.06	0.06	0.71	0.035	0.08	5.0	3.8	0.12	136	8.28	<0.01
ZZ49425		2.49	54.7	2.34	2.24	0.05	0.04	0.75	0.035	0.08	6.3	5.1	0.12	236	7.83	<0.01
ZZ49426		2.94	55.5	1.88	2.57	0.05	0.06	0.83	0.037	0.08	7.7	7.4	0.21	112	4.22	<0.01
ZZ49427		0.62	39.8	2.81	2.46	0.06	0.06	0.20	0.028	0.10	8.1	10.1	0.33	769	5.73	0.01
ZZ49428		0.75	37.1	4.69	3.23	0.05	0.07	0.17	0.028	0.08	8.7	12.6	0.43	373	8.72	<0.01
ZZ49429		0.95	48.3	2.40	3.77	<0.05	0.07	0.83	0.028	0.09	7.6	16.2	1.57	831	5.46	0.01
ZZ49430		1.00	53.5	2.90	3.88	0.05	0.06	0.36	0.029	0.08	10.3	15.9	0.51	525	7.43	0.01
ZZ49431		0.75	35.3	2.02	3.36	0.05	0.05	0.30	0.027	0.06	8.8	15.0	0.55	346	4.77	<0.01
ZZ49432		0.61	77.2	1.54	2.23	0.08	0.04	0.29	0.021	0.07	15.2	5.8	2.58	196	31.0	0.01
ZZ49433		0.63	49.0	1.82	2.63	0.05	0.04	0.24	0.020	0.07	11.2	10.8	0.67	356	5.25	<0.01
ZZ49434		0.58	63.4	1.72	2.67	0.05	0.04	0.29	0.020	0.07	11.3	9.2	0.37	376	7.68	0.01
ZZ49435		0.49	81.2	1.27	2.14	0.06	0.05	0.31	0.019	0.07	11.2	5.9	0.87	351	10.10	0.01
ZZ49436		0.57	89.1	1.21	2.37	0.08	0.06	0.44	0.021	0.07	14.6	5.2	0.36	306	6.84	0.01
ZZ49437		0.93	43.2	1.97	3.15	0.05	0.05	0.30	0.027	0.07	9.8	11.2	0.31	261	9.66	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ49398		0.54	40.3	960	11.8	9.3	0.004	0.08	1.45	4.3	2.8	0.5	53.3	<0.01	0.06	1.4
ZZ49399		0.75	35.8	1030	14.5	9.5	0.004	0.06	1.32	4.3	3.0	0.5	40.9	<0.01	0.04	1.7
ZZ49400		0.38	51.6	780	22.5	10.0	0.001	0.04	1.52	6.0	1.5	0.5	22.2	<0.01	0.07	4.2
ZZ49401		0.38	198.0	1200	16.6	13.3	0.005	0.08	19.40	5.7	11.0	0.6	51.5	<0.01	0.28	0.8
ZZ49402		0.33	49.2	480	13.4	10.2	0.001	0.04	8.40	1.1	4.5	0.7	10.8	<0.01	0.13	0.2
ZZ49403		0.95	25.8	820	23.7	10.4	0.001	0.05	1.96	2.9	2.3	0.6	9.4	<0.01	0.09	2.8
ZZ49404		0.29	21.0	320	10.2	8.2	0.001	0.03	8.23	0.5	3.6	0.9	6.2	<0.01	0.10	<0.2
ZZ49405		0.33	41.4	920	16.8	11.8	0.001	0.20	10.05	1.4	9.3	0.8	49.0	<0.01	0.25	0.3
ZZ49406		0.26	43.3	990	14.6	11.0	0.002	0.07	3.93	5.0	3.0	0.5	33.7	<0.01	0.11	1.7
ZZ49407		0.35	28.4	1100	11.8	12.6	0.003	0.09	1.95	4.1	4.9	0.5	28.8	<0.01	0.06	1.7
ZZ49408		0.24	32.6	970	13.9	14.1	0.002	0.06	2.30	3.7	2.8	0.5	25.4	<0.01	0.08	1.9
ZZ49409		0.22	44.1	1160	14.5	13.9	0.003	0.07	3.11	4.2	3.6	0.6	26.1	<0.01	0.05	1.4
ZZ49410		1.01	17.9	930	17.3	10.5	0.001	0.09	14.65	1.8	5.9	1.0	53.4	<0.01	0.25	0.9
ZZ49411		0.30	21.5	540	19.8	10.4	0.001	0.04	5.45	0.5	2.2	1.9	18.6	<0.01	0.09	<0.2
ZZ49412		0.83	31.3	790	18.3	14.6	0.001	0.05	5.88	1.7	3.5	0.8	16.7	<0.01	0.14	0.6
ZZ49413		0.50	49.3	1170	16.3	14.2	<0.001	0.06	6.71	1.3	4.1	0.9	28.7	<0.01	0.11	0.3
ZZ49414		0.17	63.6	1530	17.4	12.1	<0.001	0.14	26.3	0.7	10.5	1.1	47.1	<0.01	0.43	0.2
ZZ49415		0.34	112.0	5580	20.5	19.3	0.025	0.28	6.84	1.2	16.8	0.6	41.9	<0.01	0.13	0.2
ZZ49416		0.33	24.5	880	12.9	13.8	0.001	0.06	2.05	0.9	1.5	0.6	14.7	<0.01	0.07	0.3
ZZ49417		0.09	32.2	1750	14.5	11.7	0.001	0.22	4.77	1.5	3.9	0.6	36.3	<0.01	0.09	0.5
ZZ49418		0.08	101.5	1220	29.5	15.8	0.003	0.35	11.20	6.4	10.7	0.7	128.5	<0.01	0.13	1.5
ZZ49419		0.27	39.4	900	24.2	9.0	0.003	0.10	2.89	3.3	3.4	0.4	45.7	<0.01	0.06	0.8
ZZ49420		0.22	61.5	1310	27.6	9.8	0.006	0.16	3.87	3.3	6.3	0.4	90.1	<0.01	0.08	0.8
ZZ49421		0.32	62.4	1060	19.7	20.4	0.001	0.12	2.81	4.2	2.8	0.4	61.1	<0.01	0.06	1.8
ZZ49422		0.12	55.3	1110	34.7	8.0	0.007	0.11	3.82	4.4	6.5	0.5	107.0	<0.01	0.11	1.5
ZZ49423		0.30	49.0	850	37.6	9.1	0.001	0.04	3.19	6.0	2.5	0.6	32.3	<0.01	0.09	3.1
ZZ49424		0.14	61.6	1190	34.7	8.4	0.008	0.14	3.67	3.9	8.1	0.6	97.0	<0.01	0.09	1.0
ZZ49425		0.17	59.5	1460	35.0	9.0	0.005	0.09	3.86	4.2	5.6	0.6	90.0	<0.01	0.10	1.5
ZZ49426		0.29	55.0	1290	38.6	9.9	0.004	0.09	3.75	4.7	4.0	0.5	76.1	<0.01	0.09	1.6
ZZ49427		0.29	48.0	960	12.2	7.8	0.027	0.20	2.85	3.9	8.8	0.6	74.0	<0.01	0.05	1.3
ZZ49428		0.36	44.1	960	13.2	8.6	0.013	0.14	3.08	4.8	5.7	0.6	58.2	<0.01	0.07	1.6
ZZ49429		0.41	163.0	710	24.7	8.1	0.011	0.11	1.75	5.8	5.5	0.6	49.6	<0.01	0.07	2.6
ZZ49430		0.56	96.3	910	16.7	7.8	0.004	0.08	2.51	5.2	2.4	0.6	57.3	<0.01	0.05	1.1
ZZ49431		0.38	73.7	930	15.3	6.6	0.011	0.09	4.60	4.2	3.2	0.5	53.9	<0.01	0.07	1.3
ZZ49432		0.15	122.0	1120	12.8	6.4	0.012	0.08	11.45	3.6	5.2	0.7	109.0	<0.01	0.08	1.2
ZZ49433		0.29	71.3	1040	12.9	5.9	0.013	0.10	4.20	3.8	3.4	0.6	72.6	<0.01	0.07	1.3
ZZ49434		0.30	119.0	930	12.3	6.2	0.011	0.13	6.53	2.6	4.6	0.7	74.0	<0.01	0.08	0.6
ZZ49435		0.21	203	1300	10.2	5.9	0.014	0.15	7.92	2.5	5.8	0.5	109.0	<0.01	0.10	0.7
ZZ49436		0.20	209	1490	10.9	7.0	0.009	0.14	7.75	2.9	5.6	0.6	94.5	<0.01	0.10	0.9
ZZ49437		0.33	96.6	1300	13.3	7.0	0.005	0.09	5.41	3.7	4.1	0.7	66.8	<0.01	0.11	1.1



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ49398		0.012	0.21	5.32	108	0.14	11.15	136	1.5
ZZ49399		0.015	0.17	4.78	75	0.18	8.80	151	1.4
ZZ49400		0.009	0.34	1.11	61	0.10	11.10	158	1.4
ZZ49401		0.011	1.52	9.26	1210	0.33	42.8	1850	1.0
ZZ49402		0.011	0.55	2.38	406	0.20	4.36	168	<0.5
ZZ49403		0.014	0.83	0.86	112	0.16	2.99	111	1.4
ZZ49404		0.013	0.80	1.11	189	0.21	2.68	104	<0.5
ZZ49405		0.007	1.51	2.04	219	0.33	5.70	256	<0.5
ZZ49406		0.006	0.75	1.74	117	0.14	8.70	249	1.6
ZZ49407		0.005	0.44	2.91	79	0.13	9.30	136	1.7
ZZ49408		<0.005	0.53	1.37	82	0.32	6.92	193	1.2
ZZ49409		<0.005	0.72	2.08	88	0.10	9.72	261	1.0
ZZ49410		0.027	2.98	1.85	385	0.31	5.46	118	<0.5
ZZ49411		0.014	2.03	1.52	331	0.25	2.60	168	<0.5
ZZ49412		0.016	1.67	1.31	242	0.27	3.21	180	<0.5
ZZ49413		0.008	3.13	6.59	314	0.25	7.93	326	<0.5
ZZ49414		0.005	2.97	5.95	495	0.36	8.62	571	<0.5
ZZ49415		<0.005	4.50	9.19	278	0.18	24.7	348	0.5
ZZ49416		0.006	0.40	1.07	60	0.12	3.63	157	<0.5
ZZ49417		<0.005	1.03	1.32	99	0.09	2.58	272	<0.5
ZZ49418		<0.005	2.51	3.07	239	0.15	31.6	664	1.0
ZZ49419		0.006	0.51	2.21	82	0.11	17.00	220	1.6
ZZ49420		0.005	0.85	2.37	103	0.22	20.6	370	1.8
ZZ49421		0.007	1.65	1.37	97	0.12	13.15	703	2.1
ZZ49422		<0.005	0.98	2.65	76	0.30	19.10	271	1.3
ZZ49423		0.006	0.45	1.79	80	0.16	15.25	241	1.8
ZZ49424		<0.005	0.82	3.82	87	0.22	22.3	280	1.8
ZZ49425		<0.005	0.79	3.77	105	0.20	23.5	314	1.6
ZZ49426		0.005	0.77	3.79	92	0.23	21.1	356	1.7
ZZ49427		<0.005	0.24	3.10	103	0.06	12.25	281	2.6
ZZ49428		<0.005	0.23	3.83	123	0.07	12.10	268	2.4
ZZ49429		0.006	0.53	4.17	55	0.10	12.15	1440	2.4
ZZ49430		0.010	0.25	7.27	80	0.13	16.80	574	1.6
ZZ49431		0.007	0.31	5.35	165	0.12	13.95	502	1.8
ZZ49432		<0.005	0.46	7.22	522	0.18	31.0	704	1.7
ZZ49433		0.006	0.28	9.04	183	0.08	19.35	320	2.1
ZZ49434		0.006	0.34	8.34	312	0.10	24.0	575	1.8
ZZ49435		0.005	0.46	10.85	436	0.11	26.5	1150	2.2
ZZ49436		0.005	0.62	9.43	575	0.12	32.5	1280	2.6
ZZ49437		0.007	0.53	4.09	274	0.16	18.20	584	1.7



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ49438		0.13	0.008	0.76	0.77	24.3	<0.2	<10	260	0.53	0.14	3.21	5.14	10.75	5.4	21
ZZ49439		0.12	0.010	1.62	0.66	26.4	<0.2	<10	380	0.64	0.15	3.17	15.40	14.85	9.5	36
ZZ49440		0.10	0.008	2.12	0.73	26.2	<0.2	10	250	0.76	0.16	3.34	11.40	17.05	5.4	46
ZZ49441		0.18	0.006	0.69	0.33	24.8	<0.2	<10	620	0.45	0.22	0.09	3.00	9.86	8.9	8
ZZ49442		0.20	0.008	0.52	0.38	25.5	<0.2	<10	560	0.54	0.25	0.06	1.40	10.20	9.3	9
ZZ49443		0.17	0.003	0.84	0.50	16.8	<0.2	<10	360	0.34	0.24	0.16	5.16	10.90	4.5	23
ZZ49444		0.17	0.004	3.55	0.39	32.8	<0.2	<10	400	0.17	0.41	0.01	3.43	8.13	1.6	19
ZZ36602		0.28	0.002	0.77	1.46	17.1	<0.2	<10	370	0.86	0.26	2.09	1.28	24.0	7.4	41
ZZ36603		0.25	0.002	0.46	1.79	24.4	<0.2	<10	470	1.02	0.26	0.86	2.41	24.2	11.1	33
ZZ36604		0.22	0.010	2.94	0.66	32.8	<0.2	<10	570	0.86	0.19	1.77	28.8	14.25	5.6	66
ZZ36605		0.25	0.008	1.69	1.39	42.7	<0.2	<10	1080	0.69	0.28	0.62	5.60	14.60	10.8	29
ZZ36606		0.20	0.009	2.28	1.29	37.8	<0.2	<10	1110	0.60	0.27	0.56	2.10	12.05	9.6	22
ZZ36607		0.32	0.008	1.35	1.09	36.3	<0.2	<10	1260	0.49	0.22	0.28	0.96	13.60	5.2	21
ZZ36608		0.22	0.005	0.68	1.18	21.4	<0.2	<10	1040	0.56	0.22	0.43	0.85	14.45	7.9	21
ZZ36609		0.19	0.009	1.31	1.24	18.5	<0.2	<10	1390	0.78	0.22	0.67	1.05	13.40	5.7	19
ZZ36610		0.30	0.009	1.11	0.90	18.7	<0.2	<10	1670	0.60	0.22	0.34	1.81	16.30	9.4	15
ZZ51471		0.18	0.008	1.09	1.02	29.5	<0.2	<10	270	0.74	0.20	1.76	3.87	18.60	9.7	28
ZZ51472		0.07	0.008	1.01	0.49	20.5	<0.2	<10	230	0.78	0.14	5.48	11.45	16.05	6.4	29
ZZ51473		0.10	0.006	0.84	0.71	26.1	<0.2	<10	270	0.75	0.15	3.81	7.06	17.90	9.8	30
ZZ51474		0.13	0.008	0.78	0.97	25.3	<0.2	<10	240	0.84	0.20	3.80	7.05	21.9	10.6	34
ZZ51475		0.11	0.008	2.14	0.43	25.8	<0.2	10	560	0.85	0.12	6.91	17.80	18.00	9.8	51
ZZ51476		0.17	0.009	2.06	0.42	23.2	<0.2	<10	180	0.90	0.14	7.38	11.00	20.3	5.9	58
ZZ51477		0.16	0.013	2.58	0.53	42.4	<0.2	<10	390	0.77	0.18	1.42	7.04	15.45	4.6	31
ZZ51478		0.12	0.012	3.12	0.64	13.0	<0.2	<10	400	0.94	0.13	3.45	15.70	15.75	4.3	53
ZZ51479		0.16	0.007	2.54	0.62	23.1	<0.2	<10	430	0.99	0.15	4.83	15.05	18.30	5.2	56
ZZ51480		0.10	0.010	2.74	0.58	25.5	<0.2	<10	440	0.94	0.17	3.95	17.25	19.65	7.8	61
ZZ51481		0.14	0.011	2.25	0.42	47.9	<0.2	<10	650	0.79	0.21	0.63	23.9	15.05	7.0	26
ZZ51482		0.16	0.006	1.35	0.50	26.0	<0.2	<10	430	0.36	0.26	0.14	31.5	12.65	11.0	24
ZZ51483		0.19	0.007	0.85	0.67	27.1	<0.2	<10	330	0.41	0.25	0.03	3.77	14.90	3.4	25
ZZ51438		0.17	0.005	0.30	1.77	17.0	<0.2	<10	330	1.06	0.27	0.54	0.36	31.6	16.1	28
ZZ51439		0.16	0.009	0.06	1.72	20.7	<0.2	<10	260	0.95	0.30	0.45	0.68	28.5	20.5	29
ZZ51440		0.20	0.003	0.03	2.03	17.8	<0.2	<10	200	1.08	0.31	0.10	0.43	27.7	25.0	28
ZZ51441		0.18	0.004	0.13	1.91	17.2	<0.2	<10	150	1.11	0.32	0.22	0.90	35.8	25.3	28
ZZ51442		0.20	0.005	0.70	1.57	36.0	<0.2	<10	430	1.08	0.31	0.36	11.00	29.9	18.3	32
ZZ51443		0.17	0.012	4.37	0.29	26.3	<0.2	<10	310	0.84	0.18	6.94	10.75	18.20	6.7	99
ZZ51444		0.16	0.003	0.79	1.14	26.6	<0.2	<10	1070	1.15	0.22	1.65	8.75	28.1	12.2	28
ZZ51445		0.16	0.008	0.68	1.14	27.4	<0.2	<10	310	0.89	0.21	1.14	3.90	17.65	11.2	27
ZZ51446		0.18	0.008	1.09	0.89	30.8	<0.2	<10	260	0.81	0.18	1.47	5.16	14.45	9.6	28
ZZ51447		0.16	0.006	0.72	1.18	27.0	<0.2	<10	240	0.92	0.23	1.16	4.04	22.5	13.8	28
ZZ51448		0.17	0.005	0.79	0.98	23.3	<0.2	<10	460	0.77	0.17	1.39	5.02	18.20	9.3	24

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional- Area B- Dale West

**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ49438		0.72	29.0	1.46	2.36	0.05	0.05	0.20	0.021	0.04	8.2	7.4	0.21	195	7.09	0.01
ZZ49439		0.77	57.5	1.50	2.28	0.05	0.05	0.34	0.022	0.05	11.4	7.3	0.37	447	10.55	0.01
ZZ49440		0.70	63.9	1.36	2.59	0.08	0.06	0.41	0.022	0.07	15.8	7.5	0.35	188	9.70	0.01
ZZ49441		5.56	54.7	2.28	1.52	<0.05	<0.02	0.23	0.035	0.11	4.1	1.0	0.03	420	6.56	<0.01
ZZ49442		6.22	62.9	2.46	1.71	<0.05	<0.02	0.24	0.036	0.11	4.3	1.2	0.04	451	7.50	<0.01
ZZ49443		2.58	31.7	1.85	3.12	<0.05	<0.02	0.08	0.022	0.09	6.0	1.6	0.05	626	26.5	<0.01
ZZ49444		3.48	28.0	2.06	3.24	<0.05	<0.02	0.08	0.029	0.21	5.1	0.8	0.02	27	86.3	<0.01
ZZ36602		1.06	30.1	2.61	4.86	0.05	0.04	0.18	0.024	0.05	22.5	14.0	0.19	258	2.97	<0.01
ZZ36603		1.20	28.2	3.21	5.30	0.05	0.03	0.10	0.036	0.05	13.4	17.9	0.18	743	8.47	<0.01
ZZ36604		1.16	103.0	1.75	2.63	0.07	0.05	0.56	0.027	0.08	10.7	7.5	0.17	158	13.55	<0.01
ZZ36605		2.38	69.4	2.80	4.58	<0.05	0.06	0.78	0.040	0.08	6.8	15.1	0.32	1040	26.1	<0.01
ZZ36606		2.45	43.2	2.57	3.94	<0.05	0.06	0.88	0.030	0.08	5.4	11.0	0.24	809	11.20	<0.01
ZZ36607		2.66	32.2	2.11	3.83	0.05	0.04	1.16	0.028	0.07	5.9	10.4	0.23	178	5.87	<0.01
ZZ36608		2.04	35.2	2.85	3.70	<0.05	0.06	0.32	0.033	0.08	6.0	13.4	0.32	387	5.59	<0.01
ZZ36609		1.53	55.5	2.38	3.61	<0.05	0.07	0.35	0.030	0.10	5.8	8.7	0.24	296	4.81	<0.01
ZZ36610		2.12	59.7	2.47	2.90	<0.05	0.03	0.34	0.035	0.09	6.3	9.2	0.24	269	6.09	<0.01
ZZ51471		1.14	41.9	2.34	3.40	0.06	0.05	0.39	0.031	0.07	11.3	15.3	0.72	204	7.72	<0.01
ZZ51472		0.52	76.3	1.43	1.97	0.06	0.05	0.27	0.018	0.06	11.2	5.5	1.04	289	19.95	0.01
ZZ51473		0.50	47.2	1.94	2.41	0.06	0.05	0.22	0.022	0.06	12.1	8.7	0.65	1070	5.92	0.01
ZZ51474		0.65	65.4	2.50	3.14	0.06	0.06	0.25	0.025	0.08	13.5	13.5	1.05	398	9.12	0.01
ZZ51475		0.52	92.6	1.38	2.18	0.09	0.04	0.41	0.019	0.08	13.4	4.0	1.42	315	27.9	0.01
ZZ51476		0.51	102.5	1.18	2.16	0.08	0.05	0.43	0.020	0.09	15.6	3.7	1.69	155	21.2	0.01
ZZ51477		1.64	80.2	1.85	2.21	0.09	0.05	0.38	0.035	0.11	11.0	4.8	0.14	127	41.4	0.01
ZZ51478		0.72	88.5	0.89	2.33	0.07	0.04	0.38	0.025	0.05	15.0	4.8	0.22	160	6.35	0.01
ZZ51479		0.90	84.0	1.29	2.41	0.07	0.05	0.48	0.024	0.08	15.8	5.6	0.89	158	18.45	0.01
ZZ51480		0.95	91.3	1.39	2.45	0.07	0.04	0.56	0.024	0.08	15.6	5.0	0.73	329	21.8	0.01
ZZ51481		1.58	92.2	2.07	2.16	0.08	0.03	0.18	0.033	0.08	9.9	1.2	0.05	148	66.2	0.01
ZZ51482		3.08	50.0	1.81	3.03	<0.05	<0.02	0.05	0.028	0.09	6.8	0.9	0.03	1020	48.3	<0.01
ZZ51483		4.63	52.3	2.44	3.69	0.06	<0.02	0.07	0.036	0.13	8.0	1.6	0.06	97	60.7	<0.01
ZZ51438		1.56	52.0	3.93	4.83	0.06	0.06	0.14	0.036	0.08	15.6	30.1	0.63	820	1.59	<0.01
ZZ51439		1.49	65.3	4.76	4.74	0.05	0.06	0.09	0.038	0.09	11.0	36.3	0.78	858	1.86	<0.01
ZZ51440		1.49	66.5	4.53	4.92	0.05	0.05	0.06	0.037	0.08	11.1	40.4	0.77	947	1.08	<0.01
ZZ51441		1.55	75.0	4.52	4.96	0.06	0.06	0.09	0.036	0.09	12.5	44.0	0.82	1040	1.13	<0.01
ZZ51442		1.79	72.9	4.24	4.52	0.05	0.04	0.24	0.037	0.09	11.8	31.1	0.57	726	5.21	<0.01
ZZ51443		1.51	125.0	1.44	1.97	0.11	0.07	0.62	0.023	0.09	15.4	3.1	2.13	108	23.8	0.01
ZZ51444		0.86	52.7	3.00	3.37	0.06	0.05	0.25	0.039	0.10	15.4	13.1	0.36	483	6.97	0.01
ZZ51445		1.08	46.3	2.78	3.77	0.05	0.07	0.29	0.037	0.09	9.6	14.6	0.40	281	12.60	0.01
ZZ51446		1.96	69.2	2.46	3.03	0.07	0.07	0.37	0.034	0.10	8.1	11.5	0.34	194	30.8	0.01
ZZ51447		1.04	63.2	3.26	3.84	0.06	0.06	0.27	0.034	0.10	10.6	17.6	0.55	434	6.98	0.01
ZZ51448		0.75	43.8	2.23	2.92	<0.05	0.06	0.27	0.026	0.09	8.9	10.3	0.28	374	6.85	0.01

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**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ49438		0.31	61.8	830	9.0	5.8	0.006	0.14	4.11	2.3	4.8	0.5	82.7	<0.01	0.06	0.5
ZZ49439		0.27	240	1140	9.5	5.3	0.020	0.14	8.21	3.0	7.0	0.6	91.0	<0.01	0.08	0.6
ZZ49440		0.29	215	1470	8.4	6.4	0.022	0.16	10.55	2.4	8.9	0.6	94.4	<0.01	0.09	0.6
ZZ49441		0.09	37.7	1140	14.4	11.4	0.002	0.06	2.91	2.8	2.5	0.5	20.8	<0.01	0.10	1.1
ZZ49442		0.08	42.7	990	15.4	12.1	0.002	0.05	3.21	3.0	2.6	0.6	22.0	<0.01	0.10	1.0
ZZ49443		0.19	49.6	1640	12.2	10.4	0.001	0.11	6.97	0.4	3.9	1.0	19.1	<0.01	0.14	<0.2
ZZ49444		0.16	17.0	970	145.0	14.5	0.001	0.44	14.00	0.5	8.6	1.5	58.9	<0.01	0.28	<0.2
ZZ36602		0.63	45.1	1620	13.9	8.1	0.002	0.08	1.57	3.2	2.3	0.7	78.6	<0.01	0.07	1.0
ZZ36603		0.30	54.1	500	21.2	8.6	0.001	0.04	2.71	4.8	1.9	0.8	39.6	<0.01	0.08	1.9
ZZ36604		0.19	249	1330	9.9	8.7	0.009	0.11	11.90	4.7	9.9	0.6	65.2	<0.01	0.17	1.0
ZZ36605		0.33	78.7	2130	15.0	15.8	0.014	0.12	8.29	4.4	5.1	0.8	43.4	<0.01	0.11	0.8
ZZ36606		0.31	34.2	1830	14.7	14.8	0.009	0.12	5.71	3.9	5.5	0.7	41.7	<0.01	0.09	1.0
ZZ36607		0.41	26.9	1200	15.7	10.8	0.003	0.07	3.15	3.2	3.5	0.6	31.3	<0.01	0.06	1.3
ZZ36608		0.34	24.1	1090	13.0	10.1	0.004	0.07	2.02	3.6	3.8	0.6	34.0	<0.01	0.06	2.0
ZZ36609		0.31	32.2	1310	11.8	13.5	0.005	0.12	2.00	4.2	3.8	0.7	43.1	<0.01	0.06	1.4
ZZ36610		0.24	41.5	990	11.9	9.7	0.001	0.06	2.61	4.9	3.5	0.6	43.0	<0.01	0.07	2.8
ZZ51471		0.33	94.1	960	13.3	7.2	0.008	0.06	4.74	6.1	3.3	0.6	50.7	<0.01	0.07	1.7
ZZ51472		0.23	149.0	920	10.1	5.8	0.006	0.12	9.13	2.2	5.8	0.6	110.5	<0.01	0.07	0.5
ZZ51473		0.27	98.2	1030	10.1	5.8	0.007	0.10	4.63	3.1	4.2	0.5	83.9	<0.01	0.07	0.9
ZZ51474		0.32	109.0	920	13.4	6.4	0.007	0.07	4.59	4.7	3.8	0.5	77.2	<0.01	0.08	1.7
ZZ51475		0.20	259	1610	8.6	6.2	0.012	0.13	11.70	2.6	9.3	0.6	180.0	<0.01	0.13	0.8
ZZ51476		0.18	163.0	1740	9.1	6.7	0.010	0.09	10.70	3.1	7.7	0.7	166.0	<0.01	0.12	0.9
ZZ51477		0.17	108.0	1980	25.1	6.8	0.008	0.14	21.4	4.7	12.3	0.7	81.9	<0.01	0.25	1.8
ZZ51478		0.25	204	1250	7.9	4.7	0.014	0.13	6.28	2.7	5.6	0.6	82.2	<0.01	0.09	0.4
ZZ51479		0.24	243	1620	7.9	6.7	0.009	0.11	8.80	3.4	7.7	0.7	113.5	<0.01	0.10	0.6
ZZ51480		0.23	261	1460	9.3	6.8	0.006	0.10	10.05	3.2	7.1	0.8	99.6	<0.01	0.11	0.7
ZZ51481		0.20	152.5	1590	13.3	6.4	0.006	0.15	27.9	2.2	15.0	1.1	46.0	<0.01	0.20	0.4
ZZ51482		0.24	80.0	1890	19.2	13.4	0.001	0.12	11.60	0.5	6.3	1.3	21.8	<0.01	0.14	<0.2
ZZ51483		0.40	85.8	1190	16.0	17.3	<0.001	0.14	13.20	2.0	10.8	1.0	28.8	<0.01	0.18	0.3
ZZ51438		0.47	37.1	900	18.0	8.1	<0.001	0.03	0.78	7.5	1.2	0.6	29.0	<0.01	0.05	3.0
ZZ51439		0.19	38.8	420	20.4	6.7	<0.001	0.02	0.72	6.5	1.0	0.5	20.9	<0.01	0.07	4.3
ZZ51440		0.20	40.3	460	20.9	7.4	<0.001	0.02	0.75	5.1	0.9	0.4	13.5	<0.01	0.07	4.0
ZZ51441		0.16	47.1	700	24.6	6.4	0.001	0.02	0.67	6.8	1.3	0.4	20.6	<0.01	0.07	4.9
ZZ51442		0.31	135.0	590	24.4	8.3	0.001	0.04	2.74	6.3	2.4	0.6	24.0	<0.01	0.07	3.7
ZZ51443		0.12	251	1770	8.1	6.9	0.003	0.05	12.55	5.1	11.9	0.8	168.0	<0.01	0.17	3.5
ZZ51444		0.37	118.0	1010	13.6	6.5	0.007	0.10	2.86	4.7	4.1	0.5	60.5	<0.01	0.08	1.2
ZZ51445		0.34	116.5	690	12.2	7.3	0.004	0.06	3.21	6.1	3.6	0.7	45.3	<0.01	0.08	1.7
ZZ51446		0.24	136.5	950	11.4	6.9	0.007	0.11	5.94	5.8	6.8	0.6	68.2	<0.01	0.11	1.2
ZZ51447		0.30	121.5	870	14.4	6.7	0.004	0.06	3.16	6.5	2.8	0.6	42.0	<0.01	0.08	1.8
ZZ51448		0.33	133.5	820	12.5	6.7	0.006	0.10	3.56	3.5	3.7	0.6	48.9	<0.01	0.07	0.9

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ49438		0.005	0.38	4.88	162	0.09	16.20	301	2.0
ZZ49439		0.005	0.62	7.56	349	0.12	25.5	1320	2.6
ZZ49440		0.006	0.55	5.43	423	0.12	30.5	1380	2.3
ZZ49441		<0.005	0.59	1.87	51	0.05	8.57	258	0.5
ZZ49442		<0.005	0.65	1.88	56	0.05	8.72	294	<0.5
ZZ49443		0.005	1.37	3.32	204	0.20	5.12	230	<0.5
ZZ49444		<0.005	5.29	1.70	210	0.42	3.30	112	<0.5
ZZ36602		0.008	0.18	1.93	109	0.17	22.6	118	1.1
ZZ36603		<0.005	0.39	1.78	247	0.11	17.85	287	1.1
ZZ36604		0.006	0.76	8.56	580	0.15	31.1	1520	2.3
ZZ36605		0.006	1.27	5.86	339	0.15	16.05	443	1.8
ZZ36606		<0.005	0.83	3.73	215	0.20	11.95	182	1.5
ZZ36607		0.006	0.68	2.03	135	0.13	8.43	178	0.8
ZZ36608		0.005	0.35	1.82	84	0.11	9.65	154	1.4
ZZ36609		<0.005	0.47	2.03	88	0.07	12.85	157	2.0
ZZ36610		<0.005	0.45	1.95	73	0.06	14.50	238	0.9
ZZ51471		0.007	0.56	4.33	204	0.12	18.70	659	2.3
ZZ51472		0.005	0.54	6.90	378	0.11	23.6	842	2.0
ZZ51473		0.006	0.28	3.68	247	0.09	20.0	514	1.8
ZZ51474		0.007	0.31	3.23	289	0.12	21.5	554	1.9
ZZ51475		<0.005	0.59	15.80	645	0.16	30.6	1490	2.1
ZZ51476		<0.005	0.52	9.36	652	0.16	36.6	982	2.2
ZZ51477		<0.005	1.27	6.14	351	0.21	28.7	679	3.0
ZZ51478		0.005	1.08	9.72	356	0.13	37.8	1500	2.4
ZZ51479		0.005	1.01	6.63	432	0.14	37.9	1470	2.3
ZZ51480		0.006	0.98	5.29	522	0.19	38.8	1520	1.9
ZZ51481		0.005	1.87	8.78	370	0.34	31.5	775	1.3
ZZ51482		<0.005	2.84	4.13	224	0.22	6.29	383	<0.5
ZZ51483		0.016	3.20	6.45	345	0.23	9.35	353	<0.5
ZZ51438		0.012	0.16	1.36	45	0.29	15.50	101	1.7
ZZ51439		0.005	0.14	0.84	49	0.06	6.49	131	3.0
ZZ51440		<0.005	0.14	0.57	42	<0.05	6.02	102	2.1
ZZ51441		<0.005	0.11	1.13	41	<0.05	9.91	127	2.6
ZZ51442		0.007	0.49	1.67	406	0.10	13.00	910	1.9
ZZ51443		<0.005	0.18	5.28	545	0.18	34.1	1360	6.1
ZZ51444		0.005	0.47	3.30	331	0.10	22.4	703	1.6
ZZ51445		0.006	1.11	3.00	213	0.12	20.5	752	2.2
ZZ51446		0.005	1.55	4.93	231	0.16	26.0	608	2.5
ZZ51447		0.006	0.40	1.77	166	0.14	16.85	556	2.1
ZZ51448		0.006	0.67	3.50	210	0.10	15.90	624	2.0



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**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ51449		0.16	0.009	0.80	0.97	26.9	<0.2	<10	530	0.82	0.17	1.26	9.26	15.95	7.8	24
ZZ51450		0.15	0.005	0.98	1.24	29.7	<0.2	<10	620	0.87	0.20	1.15	11.00	18.20	7.8	30
ZZ51451		0.13	0.021	0.79	0.95	31.2	<0.2	<10	700	0.55	0.22	0.74	14.95	15.35	16.5	27
ZZ51452		0.20	0.003	0.88	1.33	21.6	<0.2	<10	110	0.37	0.27	0.05	0.98	19.20	6.5	25
ZZ51453		0.18	0.006	0.61	2.00	35.2	<0.2	<10	140	0.67	0.29	0.04	1.07	19.70	10.4	34
ZZ51454		0.17	0.004	0.62	2.00	26.3	<0.2	<10	140	0.53	0.27	0.07	1.66	22.3	8.6	34
ZZ51455		0.16	0.004	0.85	1.07	51.7	<0.2	<10	150	0.38	0.28	0.02	0.86	14.00	5.4	28
ZZ51456		0.15	0.003	0.64	0.59	32.3	<0.2	<10	150	0.23	0.30	0.02	1.80	13.80	3.8	23
ZZ51457		0.16	0.009	2.59	0.50	35.8	<0.2	<10	650	0.94	0.18	1.02	16.30	13.85	8.4	28
ZZ51458		0.16	0.005	1.50	0.48	23.5	<0.2	<10	340	0.38	0.24	0.11	3.66	9.06	3.3	28
ZZ51459		0.12	0.003	0.84	0.69	145.5	<0.2	<10	240	0.74	0.17	2.59	3.99	26.8	10.3	14
ZZ51460		0.17	0.007	0.72	0.71	49.4	<0.2	<10	220	0.64	0.17	4.09	2.86	25.2	9.5	16
ZZ51461		0.20	0.011	0.42	1.20	44.5	<0.2	<10	740	0.71	0.26	1.10	1.10	14.60	10.6	24
ZZ51462		0.12	0.009	0.31	1.48	53.9	<0.2	<10	290	0.79	0.31	0.10	1.13	13.40	26.3	30
ZZ51463		0.16	0.005	0.49	1.23	42.0	<0.2	<10	620	0.87	0.28	0.73	1.19	15.85	12.3	24
ZZ51464		0.16	0.005	0.46	1.07	107.0	<0.2	<10	410	0.62	0.20	0.39	1.05	20.9	10.1	22
ZZ51465		0.15	0.006	0.46	1.02	224	<0.2	<10	420	0.76	0.25	0.46	2.61	19.80	14.1	23
ZZ51466		0.15	0.005	0.44	0.89	24.9	<0.2	10	160	0.90	0.19	1.08	3.17	23.4	10.3	20
ZZ51467		0.20	0.009	0.31	1.20	24.9	<0.2	<10	180	0.79	0.23	0.77	1.39	23.8	14.6	24
ZZ51468		0.15	0.005	0.27	1.11	30.2	<0.2	<10	270	0.60	0.19	2.61	1.34	19.25	10.0	22
ZZ51469		0.21	0.004	0.41	1.32	43.3	<0.2	<10	250	0.90	0.24	1.24	3.61	20.9	13.1	31
ZZ51470		0.16	0.004	0.48	1.22	29.6	<0.2	<10	300	0.80	0.21	1.81	5.37	18.30	13.9	27
ZZ36611		0.19	0.006	1.29	1.59	55.4	<0.2	<10	950	0.79	0.21	0.46	0.49	18.80	9.6	25
ZZ36612		0.24	0.006	0.51	0.91	25.5	<0.2	<10	650	0.50	0.21	0.85	0.58	12.20	6.3	17
ZZ36613		0.26	0.009	0.87	0.97	21.5	<0.2	<10	800	0.63	0.21	0.63	1.00	20.4	8.5	20
ZZ36614		0.23	0.016	1.05	1.13	21.7	<0.2	<10	1000	0.73	0.19	0.97	1.01	16.30	8.8	19
ZZ36615		0.25	0.006	0.54	1.15	24.0	<0.2	<10	240	0.44	0.20	0.06	0.74	11.85	7.5	20
ZZ36616		0.19	0.017	2.48	1.80	70.5	<0.2	<10	1100	0.93	0.28	0.18	3.15	30.6	54.5	26
ZZ36617		0.28	0.006	0.84	1.14	35.7	<0.2	<10	440	0.51	0.24	0.09	0.79	14.95	6.5	21
ZZ36618		0.27	0.005	0.29	1.26	35.3	<0.2	<10	430	0.72	0.25	0.10	0.83	21.8	14.8	24
ZZ36619		0.20	0.002	0.26	1.36	45.8	<0.2	<10	170	0.38	0.22	0.04	0.43	15.60	5.2	21
ZZ36620		0.29	0.007	0.45	1.00	27.4	<0.2	<10	260	0.46	0.25	0.04	0.41	14.50	8.9	16
ZZ36621		0.27	0.004	0.30	1.08	16.2	<0.2	<10	210	0.46	0.20	0.04	0.50	17.80	6.9	17
ZZ36622		0.25	0.003	0.37	1.20	28.9	<0.2	<10	550	0.59	0.24	0.05	0.78	14.15	11.2	23
ZZ36623		0.22	0.008	0.43	0.78	55.1	<0.2	<10	360	0.77	0.22	1.22	1.20	15.35	9.9	13
ZZ36624		0.16	0.006	0.50	0.65	72.2	<0.2	<10	440	0.62	0.17	1.27	1.68	11.25	8.2	10
ZZ36625		0.22	0.006	0.44	0.74	48.7	<0.2	<10	300	0.62	0.22	0.40	1.61	15.65	16.1	12
ZZ36626		0.24	0.005	0.42	1.10	53.5	<0.2	<10	440	0.92	0.25	1.12	1.44	19.75	11.2	17
ZZ36627		0.20	0.020	1.40	0.55	169.5	<0.2	<10	780	0.54	0.16	0.93	2.55	8.07	4.8	21
ZZ36628		0.19	0.022	1.81	0.63	100.0	<0.2	<10	1050	0.74	0.19	0.74	4.13	11.90	3.9	23

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ51449		0.66	51.2	2.45	2.99	0.05	0.06	0.25	0.030	0.09	9.2	11.3	0.31	182	11.70	0.01
ZZ51450		0.77	51.3	2.41	3.78	0.05	0.05	0.33	0.032	0.08	10.2	13.1	0.33	241	7.33	0.01
ZZ51451		2.03	45.0	2.41	3.67	0.05	0.04	0.31	0.031	0.10	7.0	8.6	0.21	1050	16.35	0.01
ZZ51452		1.85	17.3	2.98	5.85	<0.05	<0.02	0.07	0.024	0.07	9.4	9.6	0.20	433	8.83	<0.01
ZZ51453		2.28	27.5	3.95	5.96	<0.05	0.02	0.12	0.040	0.09	9.1	22.7	0.38	333	10.40	<0.01
ZZ51454		2.08	24.2	3.36	6.03	<0.05	<0.02	0.17	0.031	0.09	11.3	22.4	0.38	370	9.21	0.01
ZZ51455		2.61	30.9	3.25	5.99	<0.05	<0.02	0.08	0.031	0.09	7.2	5.1	0.13	191	34.9	<0.01
ZZ51456		3.14	38.1	2.50	5.06	0.05	<0.02	0.06	0.029	0.08	7.0	1.1	0.03	54	45.7	<0.01
ZZ51457		1.82	87.9	2.22	1.70	0.09	0.11	0.32	0.033	0.08	10.2	1.7	0.11	270	46.2	0.01
ZZ51458		2.72	46.5	2.22	3.80	<0.05	<0.02	0.06	0.034	0.10	5.5	1.1	0.04	68	67.8	0.01
ZZ51459		1.01	27.3	2.60	2.18	0.11	0.06	0.22	0.032	0.09	18.3	6.1	0.38	270	8.26	0.01
ZZ51460		1.64	27.6	2.42	2.29	0.09	0.07	0.21	0.029	0.10	15.6	6.7	1.24	290	10.90	0.01
ZZ51461		2.30	37.3	3.21	4.12	0.09	0.07	0.21	0.036	0.09	6.7	15.9	0.34	547	6.06	0.01
ZZ51462		3.48	47.5	4.17	4.56	0.11	0.08	0.08	0.043	0.09	5.5	18.3	0.28	1600	10.15	0.01
ZZ51463		1.76	38.1	2.96	4.32	0.09	0.08	0.23	0.034	0.10	7.8	19.1	0.39	310	4.73	0.01
ZZ51464		2.21	23.8	2.55	3.66	0.09	0.05	0.37	0.032	0.09	9.7	14.9	0.31	355	4.10	<0.01
ZZ51465		1.73	47.1	3.50	3.43	0.11	0.08	16.15	0.033	0.09	9.5	15.8	0.37	615	5.37	0.01
ZZ51466		0.82	52.1	3.16	3.15	0.11	0.08	0.16	0.037	0.14	10.9	13.1	0.38	218	11.65	0.01
ZZ51467		1.02	40.9	3.18	3.95	0.12	0.08	0.18	0.035	0.12	10.9	19.6	0.55	396	5.62	0.01
ZZ51468		0.98	35.1	3.01	3.48	0.10	0.05	0.25	0.029	0.08	9.9	15.6	1.23	520	7.89	0.01
ZZ51469		1.20	46.7	3.21	4.50	0.12	0.08	0.38	0.034	0.10	11.5	20.7	0.55	361	18.45	0.01
ZZ51470		0.90	45.5	2.99	3.96	0.10	0.07	0.26	0.034	0.08	9.2	17.8	0.57	624	14.05	0.01
ZZ36611		4.06	46.6	2.68	5.13	0.10	0.09	0.51	0.037	0.10	8.3	14.4	0.34	612	3.71	0.01
ZZ36612		1.12	31.8	2.33	3.42	0.08	0.09	0.27	0.031	0.11	5.7	12.5	0.32	177	5.34	0.01
ZZ36613		3.14	57.7	2.47	3.44	0.11	0.07	0.40	0.034	0.11	9.6	11.9	0.32	188	5.15	0.01
ZZ36614		2.52	63.4	2.42	3.56	0.10	0.08	0.44	0.034	0.10	7.6	11.4	0.28	334	5.00	0.01
ZZ36615		2.53	32.5	2.50	4.40	0.07	0.04	0.18	0.031	0.11	5.4	9.3	0.21	269	4.07	<0.01
ZZ36616		15.70	41.6	3.80	6.03	0.12	0.10	0.93	0.057	0.20	8.1	9.1	0.20	7770	6.19	0.01
ZZ36617		7.94	36.6	2.68	4.35	0.08	0.05	0.32	0.034	0.13	6.7	8.3	0.20	209	4.01	0.01
ZZ36618		3.14	52.1	4.03	4.12	0.12	0.06	0.16	0.037	0.10	8.9	14.7	0.35	1060	6.38	0.01
ZZ36619		4.59	22.9	3.03	5.32	0.08	0.03	0.07	0.031	0.07	7.9	9.0	0.17	187	5.59	<0.01
ZZ36620		7.82	39.2	2.98	3.80	0.08	0.02	0.14	0.035	0.10	7.3	8.2	0.16	199	6.11	<0.01
ZZ36621		4.40	25.2	2.22	4.92	0.07	0.02	0.07	0.023	0.07	8.6	6.1	0.13	269	4.07	<0.01
ZZ36622		2.53	41.8	4.40	4.50	0.10	0.02	0.12	0.035	0.12	6.4	15.1	0.34	397	4.86	0.01
ZZ36623		2.62	48.7	2.75	2.85	0.08	0.09	0.59	0.034	0.12	7.3	8.9	0.38	487	3.10	0.01
ZZ36624		2.81	51.8	2.05	2.08	0.08	0.08	0.43	0.028	0.10	5.0	5.8	0.34	603	2.67	0.01
ZZ36625		4.09	42.2	2.74	2.55	0.10	0.05	0.59	0.035	0.11	6.4	8.0	0.23	741	3.89	0.01
ZZ36626		1.92	45.0	3.13	3.47	0.11	0.10	0.44	0.034	0.12	9.9	12.0	0.38	580	2.34	0.01
ZZ36627		2.50	42.1	1.99	2.09	0.09	0.06	0.70	0.029	0.08	4.5	3.8	0.14	191	5.96	0.01
ZZ36628		2.49	53.3	1.55	2.30	0.09	0.08	0.84	0.032	0.08	6.5	5.2	0.12	84	4.30	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ51449		0.37	236	910	11.5	7.0	0.010	0.09	4.21	3.9	5.0	0.5	46.1	<0.01	0.07	1.0
ZZ51450		0.39	253	1130	11.1	9.1	0.009	0.09	4.39	3.7	3.8	0.5	45.0	<0.01	0.07	0.9
ZZ51451		0.39	114.5	2510	15.6	14.9	0.008	0.15	6.29	2.2	7.5	0.8	51.3	<0.01	0.07	0.6
ZZ51452		0.48	23.4	730	14.3	13.7	<0.001	0.04	2.60	0.9	2.8	0.8	10.4	<0.01	0.06	0.2
ZZ51453		0.88	43.6	790	17.7	15.4	<0.001	0.04	3.83	3.3	3.9	0.9	12.2	<0.01	0.08	2.0
ZZ51454		0.85	32.8	760	15.0	12.9	0.002	0.04	3.51	2.0	3.4	0.7	13.5	<0.01	0.06	0.7
ZZ51455		0.43	71.2	770	15.7	13.0	<0.001	0.07	9.25	1.0	6.7	0.9	17.3	<0.01	0.14	<0.2
ZZ51456		0.19	60.7	940	15.3	11.6	0.001	0.09	11.80	0.4	10.4	1.2	15.7	<0.01	0.17	<0.2
ZZ51457		0.12	132.5	2550	13.8	7.0	0.012	0.21	21.6	2.6	19.5	0.7	53.6	<0.01	0.24	0.7
ZZ51458		0.12	77.6	1270	17.6	12.0	0.001	0.12	17.65	0.2	11.4	1.5	28.9	<0.01	0.23	<0.2
ZZ51459		0.25	54.7	660	15.7	7.9	0.001	0.08	3.71	2.7	3.8	0.4	70.3	0.01	0.06	1.0
ZZ51460		0.30	49.0	760	16.5	8.6	0.002	0.06	4.32	3.3	2.7	0.5	60.3	0.01	0.05	1.6
ZZ51461		0.48	35.1	650	21.5	10.7	0.002	0.05	4.41	4.4	2.4	0.8	34.6	<0.01	0.08	2.6
ZZ51462		0.44	49.8	890	36.3	13.5	0.002	0.04	6.54	4.1	2.9	0.8	22.3	<0.01	0.10	4.3
ZZ51463		0.58	35.8	630	22.3	11.3	0.001	0.03	3.05	4.9	1.6	0.8	27.2	<0.01	0.06	3.8
ZZ51464		0.52	38.0	760	22.6	10.2	0.001	0.01	1.92	3.6	1.4	0.6	24.2	<0.01	0.06	3.5
ZZ51465		0.31	56.7	970	32.9	8.2	0.002	0.02	2.37	5.1	2.5	0.5	34.5	<0.01	0.06	4.7
ZZ51466		0.35	48.9	810	18.3	10.3	0.008	0.06	3.69	5.0	3.9	0.6	39.4	<0.01	0.07	2.7
ZZ51467		0.51	42.4	760	18.6	9.8	0.003	0.02	1.77	5.8	1.6	0.6	29.3	<0.01	0.06	4.0
ZZ51468		0.52	79.5	620	15.5	7.7	0.002	0.05	1.36	4.0	2.2	0.5	41.8	<0.01	0.06	1.2
ZZ51469		0.51	185.0	620	17.1	10.6	0.005	0.04	3.07	6.2	2.6	0.5	41.0	<0.01	0.08	2.5
ZZ51470		0.48	149.5	820	16.9	8.7	0.007	0.06	4.51	5.1	3.5	0.5	49.9	<0.01	0.07	1.8
ZZ36611		0.44	31.2	2090	13.2	22.7	0.002	0.11	1.68	4.0	3.3	0.6	36.5	0.01	0.07	1.2
ZZ36612		0.35	24.4	900	13.3	8.7	0.002	0.09	2.16	3.7	3.9	0.5	65.8	<0.01	0.07	2.0
ZZ36613		0.45	41.3	820	15.5	12.7	0.003	0.05	2.62	5.8	2.6	0.5	39.5	0.01	0.08	3.9
ZZ36614		0.31	39.1	980	14.1	13.0	0.004	0.08	2.56	5.1	3.7	0.5	47.5	0.01	0.08	2.1
ZZ36615		0.37	21.6	1120	14.9	15.9	<0.001	0.06	1.71	2.7	1.7	0.5	13.4	<0.01	0.07	1.2
ZZ36616		0.27	30.8	2770	34.1	39.5	0.002	0.21	2.20	4.6	4.4	0.7	43.5	<0.01	0.10	1.6
ZZ36617		0.40	24.1	1200	16.7	22.1	0.001	0.13	1.71	2.7	2.4	0.6	27.9	<0.01	0.07	1.3
ZZ36618		0.38	39.2	870	21.4	15.0	0.001	0.05	2.86	4.8	2.5	0.5	18.1	<0.01	0.09	2.6
ZZ36619		0.78	20.7	640	16.0	12.3	<0.001	0.04	2.00	2.0	1.6	0.7	13.8	<0.01	0.08	1.5
ZZ36620		0.56	40.5	580	17.2	17.8	<0.001	0.03	2.75	2.7	1.9	0.6	19.7	<0.01	0.08	2.5
ZZ36621		0.58	24.9	560	11.7	14.6	<0.001	0.02	1.62	2.0	1.2	0.7	11.4	<0.01	0.06	1.2
ZZ36622		0.51	33.0	700	17.5	13.1	<0.001	0.07	2.23	3.2	1.8	0.5	18.8	<0.01	0.09	1.6
ZZ36623		0.29	34.1	700	28.0	11.8	0.001	0.04	1.79	4.6	2.1	0.5	28.8	<0.01	0.07	3.3
ZZ36624		0.21	31.5	830	18.7	10.7	0.003	0.12	1.98	2.9	3.0	0.4	32.5	<0.01	0.07	1.5
ZZ36625		0.23	33.6	670	24.2	14.3	0.001	0.04	1.65	3.9	2.6	0.4	20.5	<0.01	0.06	3.1
ZZ36626		0.38	35.1	840	30.8	11.8	0.001	0.05	1.51	5.0	2.2	0.5	26.4	0.01	0.07	3.8
ZZ36627		0.16	39.9	1230	29.4	9.5	0.004	0.08	2.99	2.7	5.1	0.4	76.1	<0.01	0.10	1.0
ZZ36628		0.25	48.6	1100	34.8	9.6	0.007	0.09	4.31	4.1	8.1	0.4	74.9	0.01	0.10	1.9



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ51449		0.005	1.01	4.43	399	0.09	18.70	1500	2.1
ZZ51450		0.006	0.86	6.57	501	0.11	17.15	1470	1.8
ZZ51451		0.008	4.62	6.92	319	0.17	17.40	727	1.2
ZZ51452		0.016	0.93	1.11	155	0.25	2.89	163	<0.5
ZZ51453		0.010	1.34	2.11	246	0.21	4.57	322	0.7
ZZ51454		0.018	1.46	2.18	263	0.28	4.38	236	<0.5
ZZ51455		0.011	2.72	2.32	413	0.27	4.98	344	<0.5
ZZ51456		0.005	2.85	2.43	325	0.27	4.96	287	<0.5
ZZ51457		<0.005	2.54	8.42	316	0.26	45.5	660	4.5
ZZ51458		<0.005	3.09	4.37	360	0.30	6.21	434	<0.5
ZZ51459		<0.005	0.51	1.82	85	0.13	23.5	471	1.2
ZZ51460		0.006	0.57	2.55	92	0.13	20.7	350	1.5
ZZ51461		0.006	0.48	2.45	108	0.17	9.97	189	2.0
ZZ51462		0.005	0.66	2.17	150	0.21	9.15	227	2.3
ZZ51463		0.009	0.32	2.24	76	0.20	11.45	165	2.1
ZZ51464		0.013	0.39	1.29	63	0.19	9.78	281	1.2
ZZ51465		0.009	0.40	1.76	67	0.13	14.30	290	3.2
ZZ51466		0.005	0.32	2.42	158	0.11	14.90	346	2.6
ZZ51467		0.011	0.25	1.40	69	0.13	12.20	199	2.4
ZZ51468		0.013	0.20	4.23	56	0.13	11.00	531	1.1
ZZ51469		0.009	0.44	3.54	107	0.14	14.70	1600	2.1
ZZ51470		0.007	0.34	8.50	216	0.14	13.35	1020	1.8
ZZ36611		0.007	0.65	2.20	74	0.14	13.35	127	1.6
ZZ36612		0.007	0.24	1.34	60	0.09	6.47	116	2.1
ZZ36613		0.010	0.51	2.93	75	0.19	15.65	190	2.0
ZZ36614		<0.005	0.52	1.98	72	0.12	18.85	150	1.8
ZZ36615		0.005	0.43	1.16	66	0.11	3.64	118	0.8
ZZ36616		<0.005	1.95	2.03	85	0.10	11.35	180	2.1
ZZ36617		0.007	0.86	1.37	61	0.12	5.84	123	1.2
ZZ36618		0.009	0.57	1.41	76	0.13	10.45	188	1.3
ZZ36619		0.012	0.75	0.97	86	0.20	2.80	133	0.8
ZZ36620		0.010	0.79	1.10	65	0.14	4.17	223	<0.5
ZZ36621		0.011	0.39	0.86	70	0.16	4.00	131	<0.5
ZZ36622		0.010	0.44	0.78	72	0.12	4.72	150	0.5
ZZ36623		<0.005	0.48	1.74	40	0.10	12.25	236	2.6
ZZ36624		<0.005	0.32	1.43	38	0.09	11.45	179	2.0
ZZ36625		<0.005	0.44	1.52	39	0.08	12.70	192	1.0
ZZ36626		<0.005	0.51	2.02	40	0.11	17.95	226	2.8
ZZ36627		<0.005	0.80	3.60	75	0.22	12.05	188	1.6
ZZ36628		<0.005	0.93	4.05	109	0.22	19.75	272	2.3



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36629		0.22	0.025	2.02	0.71	401	<0.2	<10	770	0.50	0.18	0.55	1.75	9.99	3.3	27
ZZ36630		0.24	0.020	2.26	0.74	184.0	<0.2	<10	1360	0.76	0.20	1.47	4.83	11.55	7.1	25
ZZ36631		0.12	0.005	0.40	0.89	15.3	<0.2	10	300	0.72	0.15	2.25	2.37	16.45	7.6	18
ZZ36632		0.21	0.007	0.30	1.11	26.8	<0.2	<10	880	0.70	0.14	2.69	4.82	13.55	13.2	20
ZZ36633		0.18	0.008	0.63	0.87	18.8	<0.2	<10	410	0.72	0.14	2.72	3.33	12.45	8.9	20
ZZ36634		0.18	0.009	0.65	0.49	27.3	<0.2	10	350	0.50	0.10	3.37	8.50	8.27	17.1	14
ZZ36635		0.17	0.004	0.80	0.71	18.1	<0.2	<10	290	0.68	0.14	2.72	5.03	15.25	7.2	24
ZZ36636		0.19	0.005	0.83	0.82	18.8	<0.2	<10	280	0.77	0.16	2.67	5.26	17.25	8.6	29
ZZ36637		0.25	0.005	2.09	0.45	22.0	<0.2	10	230	1.00	0.13	6.77	14.60	20.4	4.2	60
ZZ36638		0.14	0.005	2.09	0.48	17.0	<0.2	10	260	0.99	0.13	5.06	14.70	17.65	4.8	53
ZZ36639		0.15	0.007	1.42	0.38	11.9	<0.2	10	310	0.66	0.09	4.26	8.13	10.95	3.9	36
ZZ36640		0.17	0.009	2.61	0.63	18.9	<0.2	<10	440	0.86	0.13	3.09	5.69	16.60	3.6	62
ZZ36641		0.14	0.010	0.80	0.57	16.8	<0.2	<10	250	0.60	0.11	3.87	4.29	9.65	5.1	18
ZZ36642		0.22	0.009	0.97	0.78	17.8	<0.2	<10	270	0.71	0.14	3.19	5.36	14.10	6.2	21
ZZ36643		0.25	0.006	0.80	0.36	31.9	<0.2	<10	560	0.61	0.19	0.55	2.21	11.90	6.7	8
ZZ36644		0.25	0.010	0.64	0.36	36.6	<0.2	<10	400	0.55	0.18	0.27	2.04	11.90	5.5	7
ZZ36645		0.26	0.008	0.76	0.31	20.1	<0.2	<10	590	0.63	0.21	0.16	1.40	16.30	7.6	7
ZZ36646		0.29	0.008	0.88	0.41	48.6	<0.2	<10	480	0.61	0.21	0.05	0.99	11.55	7.0	9
ZZ36647		0.21	0.005	0.81	0.33	23.8	<0.2	<10	550	0.59	0.20	0.06	3.27	10.40	10.5	9
ZZ36648		0.24	0.007	0.68	0.34	40.0	<0.2	<10	570	0.70	0.21	0.06	1.22	11.55	8.5	9





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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36629		3.21	31.5	2.89	2.79	0.10	0.06	0.70	0.032	0.07	5.7	5.1	0.12	170	8.57	0.01
ZZ36630		2.16	52.3	2.54	2.60	0.10	0.07	0.72	0.033	0.09	6.7	5.9	0.40	314	7.35	0.01
ZZ36631		0.67	38.1	2.12	3.00	0.10	0.08	0.18	0.028	0.10	8.2	12.2	0.36	511	3.78	0.01
ZZ36632		0.74	43.6	2.40	3.36	0.11	0.08	0.28	0.023	0.05	6.9	12.2	0.46	3010	12.20	0.01
ZZ36633		0.64	35.4	1.95	2.51	<0.05	0.07	0.30	0.020	0.04	6.9	9.3	0.29	1420	10.75	0.01
ZZ36634		0.45	30.8	2.05	1.56	0.05	0.04	0.22	0.014	0.04	5.3	5.5	0.21	2180	16.60	0.01
ZZ36635		0.49	40.2	1.52	2.23	0.05	0.05	0.28	0.020	0.05	9.6	9.4	0.29	396	4.58	0.01
ZZ36636		0.54	48.5	1.79	2.49	0.05	0.05	0.27	0.022	0.06	10.8	10.9	0.29	570	4.45	0.01
ZZ36637		0.61	98.7	1.15	2.27	0.10	0.05	0.44	0.019	0.08	16.6	4.7	1.67	101	27.9	0.01
ZZ36638		0.53	87.0	1.11	2.10	0.08	0.05	0.41	0.020	0.06	13.6	5.3	1.07	155	14.70	0.01
ZZ36639		0.45	53.6	0.76	1.48	0.08	0.06	0.29	0.013	0.04	8.8	3.6	0.22	211	4.49	0.01
ZZ36640		0.67	69.7	1.13	2.55	0.07	0.07	0.52	0.022	0.06	15.0	6.1	0.16	110	3.11	0.01
ZZ36641		0.54	32.7	1.13	1.72	0.06	0.05	0.23	0.017	0.05	6.7	7.4	0.20	378	5.94	0.01
ZZ36642		0.71	35.7	1.54	2.36	0.05	0.05	0.27	0.021	0.05	8.7	11.3	0.27	279	6.00	0.01
ZZ36643		5.22	59.2	2.15	1.48	0.05	0.05	0.37	0.035	0.11	5.0	1.7	0.07	191	10.20	<0.01
ZZ36644		6.16	52.7	1.99	1.46	<0.05	0.03	0.24	0.030	0.10	4.7	1.4	0.09	174	6.20	<0.01
ZZ36645		7.94	70.8	2.37	1.34	0.05	<0.02	0.47	0.033	0.10	6.3	1.1	0.05	181	6.48	<0.01
ZZ36646		6.57	68.2	2.79	1.83	<0.05	<0.02	0.58	0.040	0.11	4.6	1.2	0.04	117	6.82	<0.01
ZZ36647		8.79	64.0	2.85	1.59	<0.05	<0.02	0.23	0.034	0.11	4.3	0.9	0.03	1180	6.75	<0.01
ZZ36648		5.36	76.7	2.59	1.59	<0.05	<0.02	0.35	0.039	0.11	4.9	1.0	0.03	154	7.70	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36629		0.26	20.8	1160	30.5	11.3	0.008	0.06	2.95	3.4	5.6	0.5	65.6	<0.01	0.10	2.0
ZZ36630		0.22	60.2	1160	28.7	10.8	0.004	0.07	3.33	4.3	4.7	0.5	64.4	0.01	0.09	1.4
ZZ36631		0.38	37.6	890	12.8	9.4	0.018	0.15	2.02	3.4	8.2	0.4	67.3	<0.01	0.06	1.1
ZZ36632		0.38	174.5	820	12.3	6.8	0.026	0.20	2.98	3.5	13.3	0.4	60.4	<0.01	0.07	1.1
ZZ36633		0.27	67.0	1050	12.4	5.4	0.035	0.18	4.37	2.1	8.6	0.3	70.9	<0.01	0.06	0.6
ZZ36634		0.16	80.5	1060	7.3	5.1	0.033	0.19	5.21	1.2	6.5	0.3	85.2	<0.01	0.08	0.4
ZZ36635		0.24	80.1	850	11.0	5.7	0.011	0.11	4.73	2.2	4.1	0.4	67.9	<0.01	0.10	0.6
ZZ36636		0.26	85.4	870	11.9	6.0	0.010	0.10	4.01	2.6	4.3	0.4	66.2	<0.01	0.07	0.8
ZZ36637		0.11	185.5	1770	10.1	6.7	0.010	0.08	12.30	2.6	8.7	0.5	162.5	<0.01	0.13	1.0
ZZ36638		0.16	203	1320	9.5	6.1	0.015	0.11	8.87	2.3	7.6	0.5	117.0	<0.01	0.10	0.7
ZZ36639		0.12	122.0	1200	6.2	5.2	0.013	0.16	5.90	1.3	8.8	0.3	104.0	<0.01	0.06	0.5
ZZ36640		0.17	73.2	1640	9.9	5.7	0.015	0.11	5.08	2.9	5.9	0.5	90.6	<0.01	0.10	0.7
ZZ36641		0.20	80.6	1020	7.7	9.4	0.018	0.16	4.41	1.2	9.2	0.3	97.1	<0.01	0.07	0.3
ZZ36642		0.29	80.9	860	10.0	5.4	0.011	0.12	4.52	2.1	6.1	0.3	80.6	<0.01	0.06	0.5
ZZ36643		0.10	46.7	970	12.5	13.1	0.006	0.06	3.41	3.2	4.7	0.4	31.7	<0.01	0.09	1.6
ZZ36644		0.10	32.2	1150	11.2	13.7	<0.001	0.06	2.24	2.6	2.4	0.4	24.6	<0.01	0.07	1.3
ZZ36645		0.07	49.1	770	12.3	11.4	0.003	0.01	2.91	4.2	2.6	0.4	24.8	<0.01	0.07	2.4
ZZ36646		0.10	45.6	700	15.3	12.5	0.002	0.03	2.83	3.7	3.4	0.5	28.3	<0.01	0.07	1.6
ZZ36647		0.07	46.2	1090	15.5	13.7	0.002	0.04	2.96	2.4	2.5	0.4	25.0	<0.01	0.07	0.6
ZZ36648		0.07	54.8	800	14.4	11.4	0.002	0.02	3.27	3.9	2.8	0.5	24.3	<0.01	0.08	1.1



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 Account: RCM

Project: ATAC- Regional- Area B- Dale West

**CERTIFICATE OF ANALYSIS WH12193051**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36629		<0.005	1.05	2.82	105	0.17	11.85	109	1.6
ZZ36630		<0.005	0.79	5.74	95	0.22	18.90	328	1.5
ZZ36631		0.005	0.25	4.02	86	0.12	11.35	224	2.4
ZZ36632		0.005	0.25	15.20	87	0.08	9.93	1540	2.1
ZZ36633		0.005	0.32	24.1	170	0.06	12.30	351	1.7
ZZ36634		<0.005	0.23	11.60	142	0.07	10.55	471	1.5
ZZ36635		0.005	0.30	6.32	205	0.11	16.55	374	1.8
ZZ36636		0.007	0.32	5.60	249	0.08	18.80	455	1.6
ZZ36637		<0.005	0.63	8.72	676	0.19	37.0	1140	2.4
ZZ36638		0.005	0.58	8.06	527	0.14	31.1	1270	2.1
ZZ36639		<0.005	0.45	10.60	281	0.08	19.65	979	2.6
ZZ36640		<0.005	0.83	7.44	480	0.14	32.5	460	3.0
ZZ36641		0.005	0.34	14.35	151	0.11	13.70	352	1.7
ZZ36642		0.007	0.48	5.46	174	0.10	17.00	429	1.8
ZZ36643		<0.005	0.73	2.70	69	0.05	10.80	354	1.4
ZZ36644		<0.005	0.79	1.76	42	<0.05	7.89	231	0.6
ZZ36645		<0.005	0.70	2.10	45	<0.05	13.95	309	<0.5
ZZ36646		<0.005	1.12	1.50	57	<0.05	6.98	281	<0.5
ZZ36647		<0.005	0.85	1.47	54	<0.05	6.43	297	<0.5
ZZ36648		<0.005	0.72	1.82	51	0.05	9.82	328	<0.5

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Project: ATAC- Regional- Area B- Dale West

**CERTIFICATE OF ANALYSIS WH12193051**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194352**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 141 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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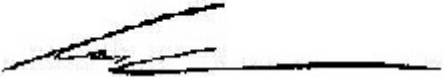
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58938		0.37	0.004	0.53	0.60	18.6	<0.2	<10	610	0.69	0.23	0.82	1.98	6.17	7.0	12
ZZ58939		0.32	0.008	1.45	0.37	7.9	<0.2	10	960	0.37	0.20	0.52	1.52	6.06	2.1	9
ZZ58940		0.31	0.007	2.75	1.45	23.0	<0.2	<10	1700	1.28	0.23	1.23	5.58	18.45	11.7	31
ZZ58941		0.35	0.005	0.57	0.48	37.5	<0.2	<10	590	0.66	0.19	0.34	3.01	7.95	7.0	26
ZZ58942		0.27	0.001	0.12	1.05	18.8	<0.2	<10	80	0.35	0.36	0.03	0.36	13.20	7.5	15
ZZ58943		0.30	0.002	0.05	1.00	17.1	<0.2	<10	50	0.37	0.40	0.01	0.21	9.77	9.0	14
ZZ58944		0.34	<0.001	0.10	1.34	12.4	<0.2	<10	380	1.11	0.38	0.15	0.35	11.00	14.0	21
ZZ58945		0.30	0.002	0.41	0.94	24.3	<0.2	<10	160	1.54	0.37	0.11	1.67	13.55	20.5	17
ZZ58946		0.33	0.003	0.34	0.60	24.9	<0.2	<10	120	1.11	0.33	0.29	1.79	10.50	14.2	12
ZZ58947		0.38	0.003	0.79	0.87	18.0	<0.2	<10	800	1.11	0.22	0.75	2.08	12.15	10.9	21
ZZ58948		0.38	0.004	1.04	1.24	27.2	<0.2	<10	560	1.17	0.25	0.51	1.09	19.30	13.3	26
ZZ58949		0.42	0.005	0.65	0.96	31.2	<0.2	<10	490	0.85	0.22	0.31	1.18	18.95	8.2	23
ZZ58950		0.25	0.005	0.63	1.18	24.9	<0.2	<10	710	1.00	0.23	0.41	0.71	17.15	8.2	25
ZZ58951		0.36	0.003	0.23	1.02	14.2	<0.2	<10	300	0.78	0.23	0.46	0.53	18.65	12.1	19
ZZ58952		0.40	0.004	0.37	1.31	18.4	<0.2	<10	380	1.04	0.26	0.54	0.63	16.65	15.2	23
ZZ58953		0.44	0.002	0.20	1.07	16.8	<0.2	<10	420	0.75	0.26	0.38	0.30	12.65	9.0	19
ZZ58954		0.33	0.002	0.29	1.19	15.1	<0.2	<10	370	1.00	0.23	0.62	0.42	13.55	11.1	21
ZZ58955		0.37	0.003	0.05	1.60	15.6	<0.2	<10	190	0.73	0.26	0.16	0.16	26.9	11.3	26
ZZ58956		0.34	0.004	0.71	1.26	28.1	<0.2	<10	170	0.85	0.20	0.96	0.69	17.65	12.6	26
ZZ58957		0.35	0.003	0.23	1.39	52.1	<0.2	<10	580	1.16	0.27	0.71	0.35	20.1	16.5	24
ZZ58958		0.36	0.002	0.06	1.75	88.2	<0.2	<10	320	0.89	0.23	0.16	0.21	33.4	20.3	28
ZZ58959		0.31	0.002	0.17	1.46	43.7	<0.2	<10	420	0.70	0.23	0.34	0.51	23.7	12.4	26
ZZ58960		0.32	0.004	0.52	1.83	189.5	<0.2	<10	680	1.04	0.26	1.13	0.63	25.8	13.9	31
ZZ58961		0.40	0.004	0.18	1.73	50.1	<0.2	<10	340	0.98	0.22	0.34	0.47	33.2	18.7	30
ZZ58962		0.37	0.003	0.35	2.07	113.0	<0.2	<10	330	1.26	0.26	0.41	0.74	32.4	19.2	34
ZZ58963		0.37	0.005	0.20	1.67	17.2	<0.2	<10	320	0.78	0.21	0.46	0.14	31.3	13.6	29
ZZ58964		0.31	0.004	0.31	1.81	18.8	<0.2	<10	550	0.91	0.24	0.82	0.42	29.8	16.5	31
ZZ58965		0.28	0.004	0.11	2.10	43.5	<0.2	<10	200	0.86	0.27	0.05	0.30	23.1	13.9	34
ZZ58966		0.36	0.005	0.39	1.73	29.7	<0.2	<10	470	0.98	0.25	0.76	0.50	29.3	21.3	31
ZZ58967		0.34	0.004	0.49	1.80	26.6	<0.2	<10	440	1.13	0.25	0.63	0.47	28.3	20.3	32
ZZ58968		0.34	0.004	0.37	1.81	20.0	<0.2	<10	490	0.98	0.22	0.87	0.47	25.0	18.4	31
ZZ58969		0.32	0.004	0.38	1.74	20.2	<0.2	<10	440	0.90	0.23	0.84	0.44	25.4	18.8	30
ZZ58970		0.40	0.003	0.32	1.82	21.8	<0.2	<10	370	0.98	0.23	0.50	0.52	31.6	20.9	32
ZZ58971		0.19	0.003	0.43	1.70	24.9	<0.2	<10	640	0.99	0.23	1.00	0.55	23.7	17.5	29
ZZ58972		0.42	0.004	0.27	1.77	18.9	<0.2	<10	370	0.92	0.25	0.65	0.37	30.6	19.4	29
ZZ58973		0.31	0.003	0.13	2.12	14.1	<0.2	<10	240	0.94	0.26	0.41	0.28	45.6	29.6	32
ZZ58974		0.37	0.003	0.30	1.47	30.8	<0.2	<10	270	0.88	0.24	1.64	0.72	30.0	15.2	26
ZZ58975		0.34	0.003	0.29	1.58	21.0	<0.2	<10	360	0.95	0.23	1.48	0.79	29.5	14.9	27
ZZ58976		0.47	0.004	0.28	1.77	24.2	<0.2	<10	290	0.92	0.26	0.75	0.59	32.2	15.2	31
ZZ58977		0.37	0.004	0.31	1.52	19.2	<0.2	<10	330	0.78	0.23	1.26	1.07	30.0	15.4	28

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58938		0.70	35.9	2.37	2.01	0.05	0.07	0.13	0.040	0.10	3.6	4.5	0.07	160	11.80	0.02
ZZ58939		1.35	34.9	0.78	1.42	<0.05	0.07	0.19	0.015	0.08	3.7	2.2	0.05	64	3.44	0.02
ZZ58940		1.22	47.2	3.18	3.29	0.08	0.11	0.24	0.048	0.09	12.7	12.7	0.20	773	10.80	0.01
ZZ58941		1.35	84.1	2.34	2.67	0.05	0.03	0.15	0.071	0.06	3.9	2.1	0.03	99	15.45	0.02
ZZ58942		2.10	22.4	2.59	6.66	<0.05	<0.02	0.04	0.028	0.06	6.6	4.8	0.09	328	5.31	0.01
ZZ58943		2.62	67.0	3.33	6.63	0.05	<0.02	0.03	0.032	0.05	4.8	3.7	0.08	342	4.76	0.01
ZZ58944		2.51	45.0	3.71	4.94	0.06	0.03	0.03	0.042	0.08	5.5	15.8	0.25	751	1.91	0.01
ZZ58945		1.81	58.2	3.98	3.21	0.07	0.05	0.06	0.047	0.07	6.0	10.8	0.23	1040	9.19	0.01
ZZ58946		2.38	91.0	3.68	2.37	0.07	0.02	0.06	0.046	0.07	5.0	5.1	0.12	476	10.85	0.01
ZZ58947		1.73	51.3	2.89	2.51	<0.05	0.05	0.13	0.044	0.08	6.5	11.1	0.18	194	6.70	0.01
ZZ58948		1.28	63.3	2.87	4.82	0.05	0.04	0.16	0.048	0.07	9.1	20.2	0.34	280	5.91	0.01
ZZ58949		1.25	58.1	2.64	3.98	<0.05	0.04	0.13	0.051	0.06	9.1	13.7	0.27	248	7.92	0.01
ZZ58950		1.14	42.3	2.92	4.26	<0.05	0.04	0.19	0.043	0.07	9.1	18.1	0.32	200	9.40	0.01
ZZ58951		1.15	38.2	2.95	3.33	<0.05	0.06	0.11	0.037	0.08	9.3	17.9	0.34	327	2.91	0.01
ZZ58952		1.34	51.2	3.71	3.91	<0.05	0.05	0.13	0.044	0.10	7.8	23.6	0.45	631	2.19	0.01
ZZ58953		1.46	33.7	3.47	4.27	<0.05	<0.02	0.05	0.037	0.07	6.9	17.6	0.30	268	2.19	0.01
ZZ58954		1.04	33.4	3.34	3.95	<0.05	0.06	0.08	0.035	0.07	6.6	20.9	0.35	414	3.50	0.01
ZZ58955		1.36	26.6	3.20	5.57	<0.05	0.02	0.04	0.033	0.05	12.5	19.3	0.41	414	1.74	<0.01
ZZ58956		0.85	30.1	3.34	3.84	<0.05	0.06	0.23	0.039	0.07	8.2	20.4	0.38	301	4.59	0.01
ZZ58957		1.13	60.0	4.18	4.19	0.05	0.06	0.24	0.046	0.08	11.9	19.9	0.54	752	1.71	0.01
ZZ58958		1.22	51.9	4.11	5.24	<0.05	0.03	0.10	0.033	0.06	13.9	30.7	0.74	770	1.38	0.01
ZZ58959		1.33	23.4	3.08	5.41	<0.05	0.02	0.07	0.039	0.06	11.8	21.7	0.39	455	1.34	0.01
ZZ58960		1.69	55.0	3.27	5.68	0.05	0.05	0.42	0.044	0.09	15.9	21.2	0.50	626	1.32	0.01
ZZ58961		1.29	60.6	4.07	4.95	0.07	0.06	0.18	0.042	0.08	15.8	29.1	0.67	712	1.59	0.01
ZZ58962		1.60	62.8	4.58	5.39	0.05	0.08	0.25	0.049	0.10	13.9	28.7	0.69	736	1.65	0.01
ZZ58963		1.36	43.1	3.53	5.25	0.05	0.05	0.12	0.033	0.07	15.2	28.2	0.71	386	1.16	0.01
ZZ58964		0.97	54.7	3.62	5.74	0.05	0.06	0.13	0.034	0.08	13.8	26.5	0.79	630	1.16	0.01
ZZ58965		2.08	33.8	5.89	6.32	0.05	0.06	0.04	0.050	0.07	8.3	29.2	0.41	783	1.90	<0.01
ZZ58966		1.78	86.5	4.27	5.61	0.06	0.10	0.21	0.046	0.12	13.6	32.6	0.96	676	1.96	0.01
ZZ58967		1.52	83.8	4.18	5.79	0.05	0.08	0.22	0.043	0.11	13.8	31.4	0.86	588	2.02	0.01
ZZ58968		1.03	60.3	3.91	5.73	0.05	0.07	0.17	0.040	0.10	11.3	30.3	0.86	875	1.64	0.01
ZZ58969		1.13	64.0	3.77	5.79	<0.05	0.07	0.17	0.037	0.10	12.0	31.7	0.82	613	1.42	0.01
ZZ58970		1.17	72.3	4.14	6.27	0.05	0.06	0.12	0.044	0.10	14.3	33.9	0.91	511	1.67	0.01
ZZ58971		1.19	69.7	3.75	5.42	0.06	0.08	0.21	0.041	0.10	11.3	27.2	0.68	460	1.40	0.01
ZZ58972		1.27	71.5	4.12	5.78	0.06	0.08	0.14	0.036	0.10	13.8	33.6	0.88	629	1.35	0.01
ZZ58973		1.70	87.0	4.71	6.90	0.08	0.13	0.07	0.034	0.13	21.7	45.4	1.13	912	0.73	0.01
ZZ58974		1.16	60.1	3.50	4.54	0.05	0.07	0.29	0.042	0.09	13.6	28.5	1.07	638	1.23	0.01
ZZ58975		1.07	60.6	3.27	4.84	0.05	0.07	0.23	0.040	0.10	13.2	30.0	0.79	997	0.89	0.01
ZZ58976		1.12	66.1	4.03	5.38	0.06	0.07	0.25	0.040	0.10	15.6	33.3	0.82	574	1.19	0.01
ZZ58977		0.90	54.8	3.44	4.63	0.05	0.08	0.21	0.040	0.08	13.7	27.6	0.79	822	0.97	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58938		0.08	43.8	870	14.1	7.2	0.003	0.18	3.20	3.1	3.3	0.5	68.7	<0.01	0.09	0.7
ZZ58939		0.08	15.8	390	12.8	6.6	0.002	0.06	2.41	2.1	4.2	0.5	56.2	<0.01	0.11	1.5
ZZ58940		0.19	86.1	2130	16.3	9.3	0.002	0.05	3.78	7.4	3.3	0.6	75.1	0.01	0.11	2.5
ZZ58941		0.11	51.8	1570	19.2	5.7	0.006	0.08	2.88	5.0	2.5	0.6	179.5	<0.01	0.10	1.4
ZZ58942		0.52	18.9	620	24.3	12.5	0.001	0.03	0.69	2.6	0.6	0.8	11.8	<0.01	0.05	1.6
ZZ58943		0.41	18.5	450	15.3	12.6	<0.001	0.02	0.58	2.9	0.5	0.7	7.1	<0.01	0.05	1.9
ZZ58944		0.29	30.0	290	16.1	10.8	0.001	0.01	0.38	5.3	0.7	0.7	14.4	<0.01	0.04	2.9
ZZ58945		0.17	44.4	420	24.5	6.2	0.001	0.01	3.04	6.7	2.3	0.5	10.7	<0.01	0.06	4.4
ZZ58946		0.11	52.0	710	21.8	7.7	0.003	0.01	5.09	4.5	3.8	0.5	9.7	<0.01	0.10	2.0
ZZ58947		0.17	56.0	1150	16.2	8.7	0.006	0.06	2.43	6.1	2.9	0.5	72.8	<0.01	0.04	2.1
ZZ58948		0.25	42.7	760	19.3	9.3	0.003	0.02	2.59	7.0	4.1	0.7	76.9	<0.01	0.09	3.1
ZZ58949		0.28	32.0	840	17.3	7.9	0.005	0.02	3.32	5.5	3.4	0.5	102.0	<0.01	0.08	3.0
ZZ58950		0.33	33.4	840	16.7	9.4	0.007	0.02	2.82	5.2	4.4	0.5	97.0	<0.01	0.09	3.2
ZZ58951		0.33	37.9	840	14.8	8.9	0.001	0.01	1.07	4.8	2.1	0.4	31.1	<0.01	0.06	4.4
ZZ58952		0.22	46.1	920	19.0	9.6	<0.001	0.03	0.96	6.4	1.8	0.4	35.2	<0.01	0.04	2.9
ZZ58953		0.34	32.1	470	17.8	10.1	<0.001	0.03	0.95	4.3	1.4	0.5	28.7	<0.01	0.03	2.1
ZZ58954		0.20	33.0	780	17.2	9.3	0.004	0.04	0.75	4.8	2.6	0.4	30.8	<0.01	0.03	2.3
ZZ58955		0.76	28.9	570	18.7	9.3	<0.001	0.01	0.74	3.8	1.3	0.5	13.2	<0.01	0.01	3.5
ZZ58956		0.33	64.4	870	15.4	7.2	0.001	0.03	1.07	4.8	1.9	0.4	26.6	<0.01	0.05	2.8
ZZ58957		0.17	45.7	440	20.0	7.6	<0.001	0.02	0.72	8.0	1.4	0.4	29.2	<0.01	0.05	4.5
ZZ58958		0.17	41.5	520	20.3	7.6	<0.001	0.01	0.64	4.7	0.7	0.3	21.0	<0.01	0.06	4.2
ZZ58959		0.70	23.4	660	16.2	11.1	<0.001	0.02	0.54	3.3	0.4	0.6	22.4	<0.01	0.06	1.9
ZZ58960		0.62	33.2	1190	17.9	15.9	<0.001	0.06	0.79	5.6	2.4	0.6	53.0	<0.01	0.03	1.5
ZZ58961		0.23	44.7	860	20.1	9.3	<0.001	0.01	0.78	6.8	0.9	0.4	28.0	<0.01	0.05	4.3
ZZ58962		0.22	50.2	880	24.8	9.9	<0.001	0.01	0.87	6.6	1.6	0.4	28.2	<0.01	0.07	4.5
ZZ58963		0.50	35.4	620	14.5	7.9	<0.001	0.01	0.71	5.0	0.9	0.4	27.1	<0.01	0.03	3.9
ZZ58964		0.54	39.4	670	17.3	8.1	<0.001	0.02	0.71	6.5	1.5	0.5	33.3	<0.01	0.08	3.5
ZZ58965		0.71	35.8	550	26.1	13.9	<0.001	0.02	0.71	4.8	1.4	0.6	9.6	<0.01	0.06	3.4
ZZ58966		0.16	49.3	700	21.1	8.5	<0.001	0.01	0.89	8.0	1.3	0.4	40.4	<0.01	0.10	4.9
ZZ58967		0.19	48.5	750	19.0	8.8	<0.001	0.02	0.85	8.0	1.5	0.4	38.5	<0.01	0.10	3.7
ZZ58968		0.17	42.6	690	16.5	8.4	0.001	0.03	0.62	7.0	1.9	0.4	38.9	<0.01	0.07	2.7
ZZ58969		0.20	41.8	670	17.8	8.8	<0.001	0.03	0.66	7.5	1.6	0.4	40.7	<0.01	0.06	3.1
ZZ58970		0.26	47.2	710	18.1	8.2	<0.001	0.02	0.68	8.3	1.9	0.4	32.1	<0.01	0.12	3.6
ZZ58971		0.26	41.6	750	17.6	9.4	<0.001	0.05	0.72	6.7	1.6	0.4	46.2	<0.01	0.07	2.3
ZZ58972		0.18	40.5	640	19.9	7.4	<0.001	0.02	0.70	7.6	0.9	0.3	36.5	<0.01	0.08	3.7
ZZ58973		0.10	45.5	650	21.0	7.4	<0.001	0.01	0.51	7.8	0.7	0.3	31.3	<0.01	0.09	6.0
ZZ58974		0.34	36.2	760	18.8	7.1	0.001	0.01	0.77	6.6	1.1	0.3	51.3	<0.01	0.09	2.9
ZZ58975		0.37	36.5	790	17.1	8.1	<0.001	0.04	0.65	6.3	1.6	0.3	57.6	<0.01	0.08	2.0
ZZ58976		0.33	37.1	840	19.3	8.1	0.001	0.02	0.72	7.3	1.5	0.3	38.2	<0.01	0.09	2.7
ZZ58977		0.50	37.3	860	17.8	7.6	0.001	0.03	0.66	5.9	1.5	0.3	43.5	<0.01	0.07	2.6

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**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ58938		<0.005	0.87	2.82	105	0.08	11.50	188	2.2
ZZ58939		<0.005	0.77	1.16	60	0.06	6.59	50	3.4
ZZ58940		<0.005	0.54	2.88	129	0.16	37.4	252	3.2
ZZ58941		<0.005	1.93	4.57	106	0.09	12.25	288	0.6
ZZ58942		0.009	0.46	0.63	64	0.15	2.65	92	<0.5
ZZ58943		0.005	0.24	0.69	43	0.09	2.99	103	<0.5
ZZ58944		<0.005	0.12	1.20	27	0.10	9.48	131	0.5
ZZ58945		<0.005	0.27	1.36	33	0.06	11.45	244	2.0
ZZ58946		<0.005	0.48	1.58	40	0.05	9.44	277	<0.5
ZZ58947		<0.005	0.53	2.25	74	0.07	16.60	272	1.8
ZZ58948		<0.005	0.51	2.98	94	0.09	12.05	104	1.8
ZZ58949		0.006	0.59	2.12	92	0.09	10.30	95	1.8
ZZ58950		0.005	0.50	3.07	86	0.07	9.64	116	1.7
ZZ58951		0.009	0.19	1.54	37	0.08	11.10	143	2.0
ZZ58952		<0.005	0.18	1.26	38	0.09	13.55	152	1.6
ZZ58953		0.006	0.16	0.93	43	0.10	8.05	118	0.6
ZZ58954		<0.005	0.13	1.84	42	0.05	10.90	108	1.6
ZZ58955		0.022	0.17	0.89	51	0.24	8.11	88	0.7
ZZ58956		0.007	0.13	5.34	50	0.12	14.40	187	1.7
ZZ58957		<0.005	0.18	0.66	41	0.05	21.0	134	2.5
ZZ58958		0.005	0.17	0.62	51	0.05	7.12	95	1.4
ZZ58959		0.016	0.17	0.85	55	0.22	7.82	109	0.6
ZZ58960		0.012	0.22	2.75	53	0.18	22.7	127	1.5
ZZ58961		0.006	0.19	0.95	51	0.10	15.50	116	2.1
ZZ58962		<0.005	0.27	1.05	59	0.23	15.00	153	2.6
ZZ58963		0.015	0.09	0.94	49	0.15	9.25	90	1.7
ZZ58964		0.012	0.11	1.64	57	0.14	11.75	106	1.9
ZZ58965		0.007	0.23	0.78	61	0.12	5.30	117	2.1
ZZ58966		0.007	0.20	0.71	56	0.05	13.55	136	4.4
ZZ58967		0.005	0.17	1.05	59	<0.05	14.00	136	3.0
ZZ58968		<0.005	0.12	1.15	58	<0.05	12.00	126	2.3
ZZ58969		<0.005	0.12	1.02	54	<0.05	13.35	121	2.7
ZZ58970		0.005	0.11	1.08	58	0.05	13.65	130	2.5
ZZ58971		<0.005	0.13	1.26	53	0.06	14.20	115	2.5
ZZ58972		0.006	0.12	0.99	52	<0.05	11.55	110	2.8
ZZ58973		0.007	0.08	0.47	51	<0.05	10.85	92	5.6
ZZ58974		0.009	0.16	0.92	48	0.15	14.20	119	2.2
ZZ58975		0.009	0.14	1.16	46	0.08	14.00	124	2.0
ZZ58976		0.011	0.15	1.42	53	0.09	15.35	136	1.9
ZZ58977		0.015	0.14	1.00	53	0.13	14.00	139	2.2



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**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58978		0.30	0.003	0.50	1.22	46.3	<0.2	<10	460	0.91	0.22	1.96	1.02	25.3	10.7	25
ZZ58979		0.28	0.008	0.28	1.58	16.5	<0.2	<10	530	0.86	0.23	1.45	0.77	24.7	12.2	28
ZZ58980		0.37	0.005	0.30	1.57	29.4	<0.2	<10	360	0.99	0.25	0.70	0.38	35.3	14.1	30
ZZ58981		0.27	0.004	0.39	1.38	36.2	<0.2	<10	440	0.89	0.21	1.35	0.71	21.4	10.2	27
ZZ58982		0.37	0.004	0.65	1.28	61.5	<0.2	<10	390	0.91	0.23	0.89	1.04	27.6	12.7	27
ZZ58983		0.30	0.003	0.43	1.34	31.0	<0.2	<10	470	0.87	0.24	1.88	1.15	31.5	10.8	28
ZZ58984		0.29	0.003	0.45	1.19	35.5	<0.2	<10	500	0.87	0.19	1.89	1.11	21.5	10.7	24
ZZ58985		0.39	0.005	0.54	1.32	23.5	<0.2	<10	500	0.76	0.24	0.56	0.87	32.1	12.4	27
ZZ58986		0.43	0.003	0.23	2.07	14.5	<0.2	<10	330	0.94	0.29	0.92	0.30	35.7	17.1	30
ZZ58987		0.48	0.003	0.13	2.13	11.5	<0.2	<10	240	1.04	0.32	0.65	0.32	42.7	21.4	30
ZZ58988		0.34	0.003	0.16	1.73	13.3	<0.2	<10	290	0.96	0.28	1.31	0.36	27.7	17.9	27
ZZ58989		0.33	0.003	0.19	1.79	15.1	<0.2	<10	300	1.03	0.29	0.45	0.41	27.5	18.6	29
ZZ58990		0.30	0.003	0.27	1.65	23.7	<0.2	<10	400	0.96	0.24	0.69	0.70	24.6	13.1	26
ZZ58991		0.29	0.003	0.48	1.94	20.6	<0.2	<10	490	1.03	0.27	0.76	0.51	30.9	20.0	29
ZZ58992		0.28	0.004	0.41	1.28	39.1	<0.2	<10	410	0.85	0.23	3.17	0.75	26.0	14.7	22
ZZ58993		0.33	0.004	0.17	2.19	37.5	<0.2	<10	480	1.26	0.28	0.16	0.35	38.4	13.8	34
ZZ58994		0.27	0.003	0.25	1.47	20.2	<0.2	<10	520	0.92	0.19	0.72	0.48	27.0	11.5	28
ZZ58995		0.40	0.003	0.31	1.41	32.7	<0.2	<10	560	0.89	0.22	2.68	0.80	25.6	14.4	25
ZZ58996		0.31	0.002	0.25	2.17	16.6	<0.2	<10	480	1.01	0.25	1.06	0.62	32.9	14.8	36
ZZ58997		0.36	0.005	0.30	1.75	10.5	<0.2	<10	310	0.99	0.26	1.02	0.47	38.7	16.9	30
ZZ58998		0.31	0.003	0.09	2.12	16.2	<0.2	<10	230	0.92	0.25	0.08	0.30	38.9	15.3	31
ZZ58999		0.34	0.004	0.45	1.55	22.5	<0.2	<10	670	0.92	0.26	0.45	0.64	34.8	13.7	28
ZZ59000		0.43	0.004	0.13	1.85	13.9	<0.2	<10	170	1.08	0.29	0.30	0.29	38.6	21.2	29
DD027187		0.17	0.013	0.35	1.20	44.0	<0.2	<10	480	0.83	0.19	1.74	0.75	13.25	12.2	20
DD027188		0.16	0.003	0.34	1.33	13.7	<0.2	<10	380	0.90	0.21	1.18	0.80	19.45	9.3	24
DD027189		0.16	0.003	0.28	1.14	20.6	<0.2	10	350	0.69	0.19	1.29	0.81	19.50	10.6	21
DD027190		0.11	0.003	0.29	1.65	20.0	<0.2	<10	470	0.95	0.26	1.24	0.47	23.7	13.8	27
DD027191		0.21	0.004	0.31	1.20	18.8	<0.2	<10	490	0.84	0.20	1.36	1.10	21.1	9.6	21
DD027192		0.15	0.004	0.34	0.92	26.8	<0.2	<10	280	0.63	0.18	2.03	1.66	12.40	11.0	16
DD027193		0.11	0.003	0.32	0.96	24.2	<0.2	10	280	0.72	0.18	2.00	1.45	13.05	11.4	17
DD027194		0.21	0.004	0.44	0.95	22.0	<0.2	<10	400	0.66	0.21	1.09	1.02	13.85	12.2	18
DD027195		0.19	0.004	0.44	0.73	18.2	<0.2	<10	410	0.63	0.22	1.24	0.47	9.46	7.4	14
DD027196		0.09	0.005	0.66	0.97	23.0	<0.2	<10	570	0.71	0.23	0.45	0.88	11.20	10.1	19
DD027197		0.17	0.006	0.40	0.73	17.9	<0.2	<10	330	0.63	0.21	1.02	1.26	10.30	10.5	14
DD027198		0.16	0.005	0.74	0.77	16.8	<0.2	<10	590	0.71	0.24	0.95	0.92	11.60	14.7	15
DD027199		0.17	0.020	0.58	0.68	19.2	<0.2	<10	750	0.61	0.22	0.66	1.05	11.45	7.6	12
DD027200		0.24	0.004	0.16	0.49	12.0	<0.2	<10	240	0.45	0.21	0.11	0.42	9.08	9.2	10
ZZ57730		0.17	0.003	0.21	1.35	15.9	<0.2	<10	280	0.68	0.21	1.45	0.41	17.00	11.8	21
ZZ57731		0.21	0.003	0.25	1.56	9.3	<0.2	<10	270	0.83	0.27	1.03	0.44	21.9	11.9	25
ZZ57732		0.20	0.007	0.28	1.52	27.6	<0.2	<10	330	0.79	0.23	1.00	0.63	20.1	14.4	24



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58978		1.03	51.3	3.02	3.90	<0.05	0.05	0.54	0.036	0.07	11.2	23.3	0.74	726	1.81	0.01
ZZ58979		0.93	52.5	3.22	4.77	0.05	0.09	0.24	0.041	0.08	11.9	25.9	0.61	406	0.78	0.01
ZZ58980		0.99	41.7	3.51	5.19	<0.05	0.08	0.21	0.040	0.09	15.4	32.0	0.63	543	1.50	0.01
ZZ58981		0.82	49.6	3.27	4.10	<0.05	0.04	0.35	0.036	0.07	11.8	21.8	0.52	442	1.52	0.01
ZZ58982		1.13	40.8	3.44	4.27	<0.05	0.06	0.35	0.041	0.07	10.0	22.7	0.46	665	3.43	0.01
ZZ58983		1.03	41.9	2.59	4.42	<0.05	0.05	0.26	0.037	0.06	15.4	19.3	0.60	546	1.59	0.01
ZZ58984		0.71	40.8	2.86	3.63	<0.05	0.05	0.30	0.038	0.06	12.3	19.3	0.61	442	1.86	0.01
ZZ58985		1.22	50.9	3.08	4.29	0.05	0.07	0.19	0.037	0.09	15.0	24.6	0.58	319	1.81	0.01
ZZ58986		1.56	62.1	4.25	5.76	0.05	0.17	0.13	0.035	0.19	16.1	46.6	0.93	509	0.90	0.01
ZZ58987		1.56	70.6	4.22	6.20	0.06	0.24	0.10	0.038	0.18	18.5	54.7	0.98	483	0.77	0.01
ZZ58988		1.20	59.4	3.91	5.02	0.05	0.13	0.11	0.030	0.14	12.0	37.4	0.89	695	0.93	0.01
ZZ58989		1.32	64.4	4.18	5.37	<0.05	0.11	0.13	0.042	0.10	11.9	36.5	0.76	616	1.24	0.01
ZZ58990		1.22	56.1	3.77	5.07	0.05	0.11	0.19	0.039	0.08	12.0	31.0	0.64	672	1.50	0.01
ZZ58991		1.30	70.4	4.43	5.72	<0.05	0.10	0.10	0.038	0.10	12.4	32.4	0.90	811	1.43	0.01
ZZ58992		1.01	58.3	3.70	3.71	<0.05	0.08	0.35	0.036	0.07	11.7	21.6	1.59	633	1.98	0.01
ZZ58993		1.47	47.4	4.09	5.82	0.06	0.05	0.09	0.051	0.06	15.0	30.0	0.59	510	2.09	0.01
ZZ58994		0.74	40.1	3.40	4.63	0.05	0.06	0.16	0.032	0.06	12.5	25.6	0.61	358	1.20	0.01
ZZ58995		0.87	53.7	3.76	4.27	<0.05	0.06	0.25	0.038	0.07	12.1	28.9	1.04	643	2.09	0.01
ZZ58996		0.64	57.3	4.53	6.66	0.05	0.08	0.13	0.046	0.06	15.4	38.2	1.12	231	0.92	0.01
ZZ58997		0.93	82.4	3.59	5.59	0.05	0.08	0.15	0.039	0.08	17.3	34.7	1.10	194	1.00	0.01
ZZ58998		1.18	57.8	4.23	6.00	0.05	0.06	0.03	0.040	0.08	15.2	32.4	0.73	384	1.52	0.01
ZZ58999		1.23	59.2	3.35	5.19	0.05	0.05	0.17	0.041	0.08	16.8	25.5	0.52	269	2.75	0.01
ZZ59000		1.18	104.5	4.66	6.01	0.07	0.16	0.17	0.042	0.10	17.0	39.7	0.94	803	0.66	<0.01
DD027187		1.21	39.3	5.21	3.45	<0.05	0.07	0.18	0.027	0.08	6.2	19.8	0.42	454	2.53	0.01
DD027188		1.20	38.1	2.50	4.10	<0.05	0.06	0.20	0.038	0.08	8.7	24.3	0.44	175	1.67	0.01
DD027189		0.88	37.0	2.95	3.56	<0.05	0.06	0.19	0.036	0.10	8.6	23.6	0.60	364	2.88	0.01
DD027190		1.24	39.2	3.67	5.06	<0.05	0.08	0.18	0.040	0.14	11.2	31.2	0.63	539	2.69	0.01
DD027191		0.87	39.0	2.71	3.81	<0.05	0.06	0.22	0.027	0.09	9.7	22.5	0.51	616	4.83	0.01
DD027192		0.85	29.9	2.49	2.81	<0.05	0.05	0.19	0.033	0.07	5.5	14.6	0.38	746	4.26	0.01
DD027193		0.89	31.2	2.65	2.87	<0.05	0.06	0.20	0.032	0.08	5.8	15.7	0.37	934	6.96	0.01
DD027194		0.90	36.4	2.79	2.95	<0.05	0.06	0.20	0.032	0.08	6.5	14.0	0.37	720	8.71	0.01
DD027195		0.73	40.8	2.13	2.29	<0.05	0.04	0.21	0.031	0.06	4.5	8.6	0.24	416	5.47	0.01
DD027196		0.72	35.7	3.06	2.83	<0.05	0.05	0.21	0.033	0.06	5.0	8.3	0.18	406	10.85	0.01
DD027197		0.93	34.8	2.35	2.15	<0.05	0.06	0.20	0.027	0.06	4.7	9.2	0.24	700	7.77	<0.01
DD027198		0.65	38.3	2.85	2.31	<0.05	0.07	0.24	0.031	0.07	5.3	8.6	0.19	1120	10.25	0.01
DD027199		0.62	35.5	2.18	2.04	<0.05	0.04	0.22	0.028	0.07	5.1	6.9	0.15	403	10.30	0.01
DD027200		0.96	37.5	2.53	2.26	<0.05	<0.02	0.06	0.034	0.10	4.0	4.4	0.10	204	7.03	<0.01
ZZ57730		0.85	37.6	2.94	3.80	<0.05	0.07	0.19	0.024	0.08	8.0	25.6	0.56	409	0.91	0.01
ZZ57731		1.22	48.8	2.77	4.53	0.06	0.09	0.22	0.030	0.09	11.5	28.3	0.59	197	0.40	<0.01
ZZ57732		1.20	48.6	3.64	4.11	0.05	0.07	0.22	0.031	0.09	9.9	25.9	0.54	366	1.18	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58978		0.49	32.7	840	21.4	8.1	0.001	0.05	1.16	4.7	1.8	0.4	57.9	<0.01	0.03	1.1
ZZ58979		0.47	29.8	810	18.7	9.4	0.002	0.08	0.67	5.4	2.3	0.4	54.2	<0.01	0.05	1.8
ZZ58980		0.68	33.9	590	19.3	9.0	<0.001	0.02	0.81	5.6	0.8	0.5	34.1	<0.01	0.06	3.2
ZZ58981		0.44	31.1	800	17.5	7.1	<0.001	0.05	0.95	4.1	1.5	0.4	46.7	<0.01	0.07	1.2
ZZ58982		0.34	40.5	670	21.5	8.2	<0.001	0.03	1.58	5.4	1.8	0.5	37.2	<0.01	0.07	2.0
ZZ58983		0.82	32.1	760	17.8	9.1	0.001	0.05	1.10	4.1	1.4	0.5	48.6	<0.01	0.05	1.2
ZZ58984		0.44	33.3	760	18.8	6.8	0.001	0.05	1.09	4.9	1.3	0.4	56.7	<0.01	0.07	1.2
ZZ58985		0.38	40.0	1020	16.2	7.6	0.001	0.01	0.85	6.7	1.5	0.4	42.6	<0.01	0.09	3.6
ZZ58986		0.16	39.4	820	18.8	9.1	0.001	0.01	0.56	6.6	1.3	0.3	57.7	<0.01	0.07	5.9
ZZ58987		0.11	43.2	740	22.8	8.8	<0.001	0.01	0.56	7.2	0.8	0.3	45.1	<0.01	0.09	6.8
ZZ58988		0.14	37.2	740	19.5	7.6	0.001	0.04	0.57	5.6	1.3	0.3	50.7	<0.01	0.06	3.2
ZZ58989		0.17	47.7	780	18.9	8.4	0.001	<0.01	0.58	6.6	1.1	0.4	31.0	<0.01	0.07	4.1
ZZ58990		0.18	35.4	1180	17.8	12.2	0.001	0.04	0.58	5.1	1.3	0.4	42.7	<0.01	0.07	1.7
ZZ58991		0.15	39.6	480	22.6	8.6	<0.001	0.02	0.60	6.1	0.6	0.3	33.2	<0.01	0.13	2.5
ZZ58992		0.22	38.8	850	22.0	6.9	0.001	0.02	0.94	6.6	1.6	0.3	61.6	<0.01	0.06	3.4
ZZ58993		0.39	38.9	300	18.8	12.1	<0.001	<0.01	0.80	7.6	0.9	0.5	13.9	<0.01	0.08	4.6
ZZ58994		0.34	30.3	910	16.3	8.2	0.002	0.02	0.58	5.9	1.8	0.4	42.8	<0.01	0.06	3.4
ZZ58995		0.28	38.2	620	21.4	7.0	0.001	0.02	0.94	6.5	1.2	0.4	66.7	<0.01	0.09	3.2
ZZ58996		0.35	36.7	820	16.8	7.5	0.001	0.04	0.47	7.7	1.7	0.4	46.3	<0.01	0.08	2.9
ZZ58997		0.26	40.1	660	16.5	7.2	0.001	<0.01	0.63	9.2	1.1	0.4	41.2	<0.01	0.10	4.1
ZZ58998		0.27	37.4	280	16.0	9.8	<0.001	<0.01	0.73	4.8	0.5	0.4	11.4	<0.01	0.09	4.2
ZZ58999		0.57	42.3	510	20.3	8.9	<0.001	0.01	1.23	7.3	1.4	0.5	33.1	<0.01	0.08	4.1
ZZ59000		0.05	43.2	650	19.5	5.8	<0.001	<0.01	0.63	9.2	0.9	0.3	24.6	<0.01	0.07	5.3
DD027187		0.27	36.9	880	12.4	9.3	0.006	0.19	0.72	4.5	3.9	0.3	70.9	<0.01	0.06	1.6
DD027188		0.36	33.3	690	18.5	9.7	0.006	0.09	0.77	5.0	2.8	0.4	51.1	<0.01	0.06	2.5
DD027189		0.41	33.7	760	15.6	8.3	0.006	0.07	0.81	4.2	1.9	0.3	73.0	<0.01	0.06	2.3
DD027190		0.34	34.5	660	19.0	10.4	0.002	0.05	0.74	5.7	1.9	0.4	51.4	<0.01	0.06	2.2
DD027191		0.35	35.3	790	15.8	8.2	0.005	0.09	0.85	4.3	2.8	0.4	62.1	<0.01	0.07	1.9
DD027192		0.27	37.2	740	13.4	8.6	0.010	0.11	0.79	3.1	4.1	0.3	70.6	<0.01	0.06	1.0
DD027193		0.24	42.4	740	13.7	9.8	0.011	0.12	0.80	3.3	4.1	0.3	65.2	<0.01	0.07	1.1
DD027194		0.18	35.4	730	15.2	7.7	0.008	0.09	1.23	4.2	3.9	0.4	55.5	<0.01	0.12	1.7
DD027195		0.15	29.3	630	14.6	6.7	0.006	0.08	1.25	3.2	2.8	0.5	59.9	<0.01	0.07	0.8
DD027196		0.20	26.1	620	16.7	5.9	0.003	0.04	1.65	4.3	5.0	0.5	44.7	<0.01	0.11	2.0
DD027197		0.14	28.7	630	14.4	6.9	0.011	0.08	1.47	3.8	3.6	0.4	49.8	<0.01	0.08	1.3
DD027198		0.19	40.8	720	15.4	7.0	0.009	0.07	2.27	4.0	2.9	0.4	52.2	<0.01	0.13	1.5
DD027199		0.20	26.3	700	15.7	7.1	0.009	0.07	1.90	3.4	3.0	0.4	40.6	<0.01	0.09	2.0
DD027200		0.19	35.8	600	13.0	8.4	0.002	0.03	1.97	2.4	2.0	0.4	17.7	<0.01	0.07	2.0
ZZ57730		0.18	26.8	760	16.1	7.3	0.007	0.08	0.50	4.2	2.2	0.3	39.7	<0.01	0.04	1.9
ZZ57731		0.21	31.3	730	21.8	7.8	0.002	0.06	0.46	5.8	1.7	0.3	39.2	<0.01	0.04	2.4
ZZ57732		0.22	34.2	790	19.8	8.5	0.005	0.07	0.65	5.5	2.3	0.3	33.2	<0.01	0.08	2.5



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58978		0.013	0.24	1.71	58	0.14	13.85	168	1.2
ZZ58979		0.009	0.15	2.17	53	0.13	12.95	120	2.5
ZZ58980		0.018	0.14	1.15	57	0.13	10.80	109	2.3
ZZ58981		0.010	0.17	1.44	61	0.11	14.10	119	1.4
ZZ58982		0.007	0.27	1.61	82	0.10	10.55	173	1.6
ZZ58983		0.020	0.18	1.65	66	0.21	16.05	124	1.2
ZZ58984		0.010	0.19	1.72	51	0.11	18.20	135	1.3
ZZ58985		0.012	0.17	1.19	51	0.07	17.75	142	2.0
ZZ58986		0.007	0.11	0.72	42	<0.05	11.70	116	6.5
ZZ58987		0.005	0.09	0.63	40	<0.05	12.15	106	10.1
ZZ58988		<0.005	0.10	1.09	39	<0.05	10.75	110	3.8
ZZ58989		0.005	0.11	0.56	45	<0.05	11.10	122	3.6
ZZ58990		0.005	0.12	2.26	53	0.05	12.25	145	3.0
ZZ58991		0.005	0.12	0.80	53	0.05	8.32	95	2.5
ZZ58992		0.006	0.23	1.11	53	0.06	15.90	132	2.2
ZZ58993		0.006	0.22	1.03	80	0.10	9.72	117	1.6
ZZ58994		0.007	0.10	1.79	61	0.07	12.20	114	1.9
ZZ58995		0.006	0.20	0.87	63	0.05	13.80	126	1.9
ZZ58996		0.007	0.09	2.50	71	0.05	14.70	92	2.4
ZZ58997		0.008	0.10	0.70	57	0.05	14.50	101	2.7
ZZ58998		0.007	0.15	0.66	69	0.07	5.47	91	2.5
ZZ58999		0.014	0.18	1.08	69	0.14	15.80	122	1.8
ZZ59000		0.005	0.08	0.55	48	<0.05	12.70	91	6.5
DD027187		<0.005	0.15	1.82	40	<0.05	11.10	120	2.3
DD027188		0.005	0.21	2.45	56	0.05	12.20	130	2.2
DD027189		0.007	0.16	1.10	44	0.07	10.15	128	2.2
DD027190		0.005	0.16	1.93	55	0.06	12.70	126	2.9
DD027191		0.006	0.22	3.68	46	0.09	11.45	137	1.9
DD027192		<0.005	0.42	2.71	40	<0.05	8.08	159	1.5
DD027193		<0.005	0.38	3.77	40	<0.05	9.13	174	1.6
DD027194		<0.005	0.40	2.82	49	0.06	10.25	137	1.9
DD027195		<0.005	0.42	2.56	51	0.08	9.38	73	1.5
DD027196		<0.005	0.44	4.99	73	0.08	8.46	53	1.7
DD027197		<0.005	0.44	2.02	50	0.06	9.22	108	1.7
DD027198		<0.005	0.46	1.99	56	0.06	12.05	133	1.8
DD027199		<0.005	0.49	1.82	47	0.06	9.04	103	1.4
DD027200		0.005	0.24	0.84	39	<0.05	5.72	232	<0.5
ZZ57730		<0.005	0.13	1.37	34	<0.05	10.55	105	2.3
ZZ57731		<0.005	0.17	2.21	42	<0.05	17.15	104	2.5
ZZ57732		<0.005	0.16	1.54	42	<0.05	13.95	114	2.3



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57733		0.17	0.003	0.22	1.54	36.9	<0.2	<10	350	0.89	0.27	0.91	0.48	20.2	13.5	24
ZZ57734		0.26	0.003	0.21	1.32	16.1	<0.2	10	340	0.72	0.22	1.42	0.43	18.65	13.2	21
ZZ57735		0.17	0.002	0.21	1.28	16.3	<0.2	10	360	0.72	0.21	1.46	0.56	18.50	13.8	20
ZZ57736		0.19	0.002	0.18	1.36	14.3	<0.2	<10	410	0.68	0.20	1.30	0.39	17.15	12.8	21
ZZ57737		0.20	0.003	0.23	1.21	15.7	<0.2	<10	250	0.69	0.22	1.32	0.60	17.70	12.5	20
ZZ57738		0.19	0.002	0.20	1.11	14.5	<0.2	<10	310	0.75	0.19	1.60	0.57	15.00	11.9	18
ZZ57739		0.21	0.002	0.20	1.05	12.6	<0.2	<10	300	0.61	0.20	1.54	0.60	13.70	10.5	17
ZZ57740		0.26	0.003	0.16	0.87	15.9	<0.2	<10	140	0.72	0.28	0.55	0.30	11.80	13.7	14
ZZ57741		0.21	0.002	0.21	1.04	17.4	<0.2	<10	250	0.77	0.24	0.93	0.43	14.85	13.0	18
ZZ57742		0.22	0.002	0.21	1.05	16.0	<0.2	<10	260	0.84	0.24	1.24	0.50	15.45	10.9	18
ZZ57743		0.22	0.002	0.22	1.01	16.5	<0.2	<10	250	0.88	0.24	0.83	0.58	16.95	10.4	18
ZZ57744		0.25	0.003	0.22	1.06	15.6	<0.2	<10	280	0.76	0.25	0.84	0.68	16.25	13.0	19
ZZ57745		0.26	0.002	0.18	1.20	16.5	<0.2	<10	400	1.01	0.29	0.78	0.43	14.60	12.8	20
ZZ57746		0.22	0.001	0.16	1.08	10.8	<0.2	<10	260	0.90	0.28	0.73	0.40	15.30	12.6	19
ZZ57747		0.19	0.003	0.66	0.68	15.6	<0.2	<10	620	0.64	0.14	2.12	7.88	10.25	17.2	16
ZZ57748		0.22	0.003	0.73	1.65	16.6	<0.2	<10	290	0.85	0.27	0.30	1.40	26.4	9.7	28
ZZ57749		0.22	0.006	3.35	0.78	27.9	<0.2	<10	410	1.23	0.19	0.89	10.15	10.75	10.5	61
ZZ57750		0.25	0.004	1.76	0.65	22.1	<0.2	<10	380	0.79	0.19	1.57	4.28	11.30	9.3	29
ZZ57751		0.25	0.004	1.14	0.86	16.1	<0.2	<10	450	0.78	0.18	0.90	3.87	13.95	9.6	33
ZZ57752		0.20	0.002	0.59	0.94	15.6	<0.2	<10	300	0.69	0.20	0.74	1.28	9.79	8.0	25
ZZ57753		0.27	0.003	1.03	1.17	18.5	<0.2	<10	430	0.78	0.24	0.56	2.17	22.2	10.0	31
ZZ57754		0.22	0.002	0.53	1.11	17.5	<0.2	<10	530	0.75	0.20	0.91	2.06	17.00	9.5	24
ZZ57755		0.30	0.002	0.47	0.98	18.1	<0.2	<10	450	0.84	0.24	0.56	1.47	16.70	12.9	22
ZZ57756		0.27	0.002	0.46	0.99	16.7	<0.2	<10	450	0.75	0.23	0.54	1.73	16.80	12.0	22
ZZ57757		0.20	<0.001	0.18	1.10	14.4	<0.2	<10	310	0.97	0.32	0.72	0.67	13.80	16.4	20
ZZ57758		0.25	0.004	0.27	1.15	14.5	<0.2	<10	390	0.91	0.26	1.01	0.95	15.90	13.5	20
ZZ57759		0.26	0.001	0.13	1.43	12.2	<0.2	<10	530	0.77	0.27	1.04	0.69	20.8	10.8	23
ZZ57760		0.20	0.002	0.29	1.13	12.4	<0.2	<10	400	0.84	0.23	1.27	0.89	16.35	8.7	20
ZZ57761		0.23	0.003	0.29	1.08	15.4	<0.2	<10	300	0.77	0.23	1.20	0.74	17.95	9.4	20
ZZ57762		0.22	0.002	0.31	1.11	16.9	<0.2	<10	320	0.85	0.25	1.40	0.74	17.50	9.9	20
ZZ57763		0.20	0.003	0.35	1.28	14.3	<0.2	<10	340	0.91	0.25	1.36	0.84	17.90	10.7	24
ZZ57764		0.20	0.002	0.30	1.12	18.8	<0.2	<10	410	0.80	0.22	1.74	0.96	18.40	10.9	20
ZZ57765		0.22	0.002	0.30	1.29	19.9	<0.2	<10	330	0.82	0.25	1.49	1.02	19.95	12.5	23
ZZ57766		0.25	0.001	0.20	1.16	16.5	<0.2	<10	540	0.77	0.21	1.52	0.28	9.91	11.1	21
ZZ57767		0.19	0.012	0.18	0.96	7.8	<0.2	<10	480	0.56	0.15	2.91	0.42	8.27	6.0	13
ZZ57768		0.15	0.003	0.09	0.50	31.1	<0.2	10	530	0.24	0.08	4.72	0.98	4.35	3.3	6
ZZ57769		0.24	0.001	0.25	1.20	12.1	<0.2	<10	640	0.60	0.20	2.38	0.54	16.30	8.8	20
ZZ57770		0.24	0.001	0.79	0.87	17.4	<0.2	<10	580	0.61	0.17	1.91	0.77	10.25	7.6	20
ZZ57771		0.16	0.002	0.29	0.94	11.5	<0.2	<10	640	0.59	0.16	3.21	1.11	13.70	8.4	19
ZZ57772		0.17	0.004	0.28	0.81	9.7	<0.2	<10	810	0.46	0.12	3.51	0.80	10.60	6.8	16

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57733		1.39	45.3	3.47	4.21	0.05	0.07	0.20	0.029	0.08	9.6	28.0	0.51	285	0.97	<0.01
ZZ57734		1.15	41.1	3.19	4.09	0.05	0.08	0.34	0.030	0.11	8.0	25.7	0.79	611	1.25	0.01
ZZ57735		0.94	45.2	3.16	4.01	<0.05	0.07	0.19	0.028	0.11	7.9	24.9	0.67	756	1.34	0.01
ZZ57736		0.71	36.7	3.16	3.88	<0.05	0.07	0.15	0.027	0.10	7.2	22.3	0.57	403	1.11	0.01
ZZ57737		0.82	35.4	3.04	3.77	0.05	0.07	0.22	0.026	0.09	7.7	22.4	0.61	554	1.18	0.01
ZZ57738		0.69	34.2	2.87	3.17	<0.05	0.06	0.17	0.026	0.08	6.5	18.3	0.53	539	1.29	0.01
ZZ57739		0.84	36.8	2.69	3.19	<0.05	0.07	0.16	0.029	0.09	6.0	17.2	0.51	629	1.12	0.01
ZZ57740		1.14	36.5	3.88	2.60	<0.05	0.05	0.13	0.045	0.08	4.9	11.8	0.29	305	1.87	<0.01
ZZ57741		0.91	32.3	3.69	3.08	<0.05	0.05	0.17	0.035	0.10	6.5	17.9	0.43	625	1.56	0.01
ZZ57742		0.92	36.1	3.23	3.10	<0.05	0.06	0.16	0.031	0.10	6.5	17.3	0.41	251	1.46	0.01
ZZ57743		0.81	35.4	3.31	3.10	<0.05	0.07	0.16	0.033	0.09	7.2	16.7	0.33	244	1.92	0.01
ZZ57744		0.74	27.6	3.48	3.21	0.05	0.07	0.17	0.034	0.08	7.3	16.8	0.34	783	1.72	0.01
ZZ57745		1.13	33.7	3.61	3.71	<0.05	0.06	0.16	0.033	0.09	6.5	19.7	0.37	1120	3.49	0.01
ZZ57746		1.46	35.4	2.21	3.32	<0.05	0.06	0.16	0.029	0.08	6.6	18.3	0.37	143	4.55	0.01
ZZ57747		0.47	34.5	3.05	1.95	<0.05	0.04	0.19	0.025	0.04	4.7	6.3	0.23	1720	10.60	0.01
ZZ57748		1.03	22.5	3.20	5.22	0.05	0.04	0.10	0.029	0.05	11.8	16.6	0.29	248	5.56	<0.01
ZZ57749		0.58	103.5	2.57	1.98	0.07	0.04	0.45	0.034	0.07	5.3	5.3	0.26	390	27.1	<0.01
ZZ57750		0.72	59.4	2.44	2.32	0.06	0.06	0.31	0.032	0.07	5.5	7.1	0.43	159	12.35	<0.01
ZZ57751		0.58	42.5	2.63	2.61	0.05	0.05	0.27	0.024	0.05	6.7	9.0	0.20	282	7.06	<0.01
ZZ57752		0.56	30.0	2.74	2.94	<0.05	0.05	0.12	0.025	0.05	4.8	14.5	0.27	315	7.17	<0.01
ZZ57753		0.86	37.8	3.07	3.64	0.05	0.04	0.21	0.028	0.06	10.6	18.3	0.36	367	6.35	0.01
ZZ57754		0.63	33.8	2.81	3.57	<0.05	0.05	0.17	0.029	0.06	7.8	15.6	0.33	281	4.15	<0.01
ZZ57755		0.81	39.3	3.37	3.08	<0.05	0.05	0.22	0.030	0.07	7.2	14.3	0.28	282	3.52	<0.01
ZZ57756		0.73	36.3	3.21	3.11	0.05	0.04	0.22	0.035	0.07	7.5	14.3	0.27	228	3.30	<0.01
ZZ57757		1.28	31.3	3.46	3.61	0.05	0.06	0.13	0.031	0.08	5.8	20.1	0.40	2430	1.75	0.01
ZZ57758		0.86	34.4	2.92	3.46	<0.05	0.05	0.18	0.030	0.07	6.8	16.3	0.34	605	1.81	0.01
ZZ57759		0.75	24.0	3.14	4.53	<0.05	0.04	0.14	0.033	0.06	9.1	17.5	0.37	684	1.17	0.01
ZZ57760		0.77	30.9	2.61	3.20	<0.05	0.07	0.25	0.029	0.07	7.3	17.1	0.33	431	1.20	0.01
ZZ57761		0.71	29.3	2.83	3.17	<0.05	0.06	0.32	0.030	0.08	8.0	18.2	0.38	433	1.49	0.01
ZZ57762		0.71	33.0	3.21	3.16	<0.05	0.05	0.22	0.032	0.08	7.8	17.9	0.36	706	1.62	0.01
ZZ57763		0.78	38.3	2.67	3.66	<0.05	0.07	0.29	0.035	0.09	8.5	19.6	0.40	214	1.50	0.01
ZZ57764		0.66	28.0	3.04	3.27	0.05	0.05	0.26	0.030	0.06	8.7	16.9	0.37	1020	1.42	0.01
ZZ57765		0.81	36.0	3.41	3.73	<0.05	0.07	0.24	0.031	0.09	8.9	21.4	0.61	387	1.83	0.01
ZZ57766		0.69	29.1	2.70	3.21	<0.05	0.04	0.13	0.033	0.08	4.7	18.2	0.32	277	2.16	0.02
ZZ57767		0.54	16.4	1.83	2.68	<0.05	0.03	0.11	0.023	0.04	3.9	9.4	0.18	558	0.85	0.01
ZZ57768		0.30	12.6	0.87	1.40	<0.05	0.03	0.09	0.012	0.02	2.1	5.7	0.11	253	0.42	0.02
ZZ57769		0.47	21.2	2.57	3.26	<0.05	0.05	0.16	0.028	0.04	7.6	12.3	0.31	501	1.08	0.01
ZZ57770		0.47	29.6	2.56	2.47	<0.05	0.04	0.25	0.025	0.06	5.9	11.2	0.24	856	2.03	0.01
ZZ57771		0.38	22.3	2.34	2.56	<0.05	0.04	0.22	0.025	0.05	9.6	12.3	0.45	692	1.09	0.01
ZZ57772		0.40	31.5	1.89	2.20	<0.05	0.04	0.18	0.017	0.04	5.9	10.2	0.36	613	1.02	0.01

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57733		0.21	30.8	790	22.0	8.1	0.011	0.08	0.66	5.0	4.2	0.3	32.0	<0.01	0.08	2.5
ZZ57734		0.25	29.7	670	15.7	10.0	0.004	0.06	0.79	5.1	1.5	0.3	137.0	<0.01	0.06	2.5
ZZ57735		0.27	31.2	640	18.0	12.3	0.003	0.06	0.73	4.9	1.4	0.3	322	<0.01	0.06	2.4
ZZ57736		0.24	28.0	520	14.3	6.6	0.002	0.06	0.67	4.7	1.0	0.3	46.5	<0.01	0.05	2.3
ZZ57737		0.25	28.0	590	16.3	8.2	0.001	0.06	0.69	4.7	1.7	0.3	55.9	<0.01	0.05	2.2
ZZ57738		0.25	27.6	620	15.0	6.5	0.003	0.08	0.75	3.9	1.6	0.3	59.9	<0.01	0.07	1.6
ZZ57739		0.23	29.0	670	13.5	8.2	0.003	0.09	0.68	4.2	1.3	0.3	53.7	<0.01	0.06	1.6
ZZ57740		0.15	34.6	690	19.5	7.4	0.001	0.02	0.70	6.1	0.9	0.3	30.1	<0.01	0.06	2.6
ZZ57741		0.24	30.4	690	17.6	10.1	0.002	0.06	0.61	5.3	1.8	0.3	47.7	<0.01	0.07	2.2
ZZ57742		0.28	29.9	690	17.7	9.3	0.001	0.08	0.64	5.0	1.4	0.4	77.8	<0.01	0.07	2.0
ZZ57743		0.28	29.4	780	18.5	8.7	0.005	0.07	0.69	5.6	1.9	0.3	49.6	<0.01	0.06	2.6
ZZ57744		0.30	31.1	830	16.9	8.0	0.003	0.05	0.60	5.2	1.5	0.3	39.7	<0.01	0.05	2.5
ZZ57745		0.30	28.2	700	19.0	9.7	0.002	0.06	0.52	5.6	1.9	0.4	40.5	<0.01	0.07	3.1
ZZ57746		0.32	27.2	610	18.6	8.9	0.002	0.16	0.51	5.0	1.6	0.4	32.0	<0.01	0.03	3.0
ZZ57747		0.30	63.1	1000	10.7	4.9	0.034	0.14	1.69	3.2	8.4	0.4	114.0	<0.01	0.04	1.0
ZZ57748		0.84	40.1	410	15.5	10.0	0.001	0.01	1.23	3.6	2.0	0.6	31.6	<0.01	0.06	3.3
ZZ57749		0.11	199.5	1570	12.2	5.9	0.002	0.03	5.49	7.2	6.7	0.7	140.0	<0.01	0.12	2.1
ZZ57750		0.18	103.5	1140	13.7	6.0	0.008	0.03	3.09	4.9	4.8	0.5	128.5	<0.01	0.12	2.2
ZZ57751		0.31	61.3	1040	12.4	5.6	0.009	0.05	2.03	4.8	6.3	0.4	87.7	<0.01	0.09	1.8
ZZ57752		0.20	44.6	980	11.4	5.6	0.004	0.04	1.55	3.2	3.0	0.4	64.8	<0.01	0.06	1.6
ZZ57753		0.51	60.5	880	15.1	6.9	0.001	0.02	1.85	4.8	2.4	0.5	53.7	<0.01	0.06	2.9
ZZ57754		0.39	40.3	750	15.3	6.3	0.004	0.04	1.33	4.5	2.1	0.5	45.0	<0.01	0.07	2.2
ZZ57755		0.33	49.7	880	16.3	6.9	0.004	0.03	1.27	5.8	2.6	0.4	46.3	<0.01	0.06	3.3
ZZ57756		0.36	41.3	880	17.7	7.4	0.005	0.03	1.26	5.7	5.0	0.4	44.1	<0.01	0.06	3.6
ZZ57757		0.28	33.7	630	20.1	8.1	0.004	0.06	0.55	4.8	1.6	0.4	34.9	<0.01	0.05	3.1
ZZ57758		0.38	28.5	780	17.4	8.0	0.006	0.08	0.90	4.7	3.1	0.4	41.7	<0.01	0.03	2.5
ZZ57759		1.03	24.9	600	17.9	8.9	<0.001	0.06	0.60	3.7	1.5	0.5	31.0	<0.01	0.04	2.3
ZZ57760		0.44	25.6	850	18.0	7.7	0.009	0.12	0.78	4.0	3.0	0.4	37.9	<0.01	0.03	2.0
ZZ57761		0.43	26.1	800	17.8	6.9	0.005	0.09	0.78	4.2	2.5	0.4	46.3	<0.01	0.04	2.4
ZZ57762		0.43	26.5	830	18.5	7.5	0.006	0.11	0.89	4.2	2.8	0.4	45.6	<0.01	0.05	2.0
ZZ57763		0.52	34.8	910	17.2	7.8	0.006	0.12	0.98	4.9	2.9	0.4	47.4	<0.01	0.05	2.3
ZZ57764		0.46	27.7	950	17.6	7.5	0.003	0.10	0.82	3.8	3.2	0.4	47.0	<0.01	0.05	1.4
ZZ57765		0.39	32.0	860	19.4	6.8	0.003	0.08	0.84	4.7	2.1	0.4	37.7	<0.01	0.05	2.2
ZZ57766		0.28	35.7	660	13.6	6.6	0.002	0.08	0.63	3.8	1.0	0.4	51.6	<0.01	0.02	1.6
ZZ57767		0.40	16.8	710	12.5	6.7	<0.001	0.11	0.38	1.7	0.7	0.3	51.8	<0.01	0.02	0.5
ZZ57768		0.30	7.8	690	5.4	3.5	0.001	0.18	0.42	0.9	2.6	0.2	50.6	<0.01	0.03	0.2
ZZ57769		0.57	21.8	690	13.2	5.3	<0.001	0.07	0.57	2.7	1.4	0.4	35.6	<0.01	0.05	1.1
ZZ57770		0.25	34.0	820	11.8	5.3	0.001	0.07	0.87	3.2	1.8	0.3	37.6	<0.01	0.08	1.1
ZZ57771		0.37	22.4	1240	12.5	5.8	0.006	0.14	0.70	2.3	2.6	0.3	49.1	<0.01	0.06	0.6
ZZ57772		0.34	25.0	1000	9.1	4.7	0.005	0.15	1.02	1.3	4.3	0.2	59.8	<0.01	0.03	0.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57733		<0.005	0.16	1.47	70	0.08	12.60	106	2.3
ZZ57734		0.005	0.12	1.09	38	<0.05	9.62	108	2.4
ZZ57735		0.005	0.12	0.73	39	0.05	9.59	112	2.5
ZZ57736		0.005	0.12	0.83	40	<0.05	7.91	107	2.2
ZZ57737		0.005	0.15	1.37	39	0.06	9.64	120	2.1
ZZ57738		0.005	0.14	1.70	37	0.05	9.27	115	1.8
ZZ57739		0.005	0.14	1.29	33	0.05	8.31	122	1.9
ZZ57740		<0.005	0.13	1.05	31	<0.05	7.63	125	1.7
ZZ57741		<0.005	0.15	1.26	37	<0.05	9.75	127	1.6
ZZ57742		<0.005	0.14	2.15	36	0.07	9.47	123	2.0
ZZ57743		<0.005	0.11	1.92	40	0.05	10.40	131	2.0
ZZ57744		0.005	0.12	1.44	37	0.09	9.02	143	2.0
ZZ57745		<0.005	0.13	1.83	34	0.07	8.99	130	1.7
ZZ57746		0.006	0.12	2.31	29	0.06	9.53	96	1.9
ZZ57747		<0.005	0.15	10.05	69	0.11	11.30	235	1.4
ZZ57748		0.019	0.30	2.25	93	0.23	8.82	159	1.5
ZZ57749		<0.005	0.50	7.10	249	0.24	44.4	750	1.8
ZZ57750		<0.005	0.40	4.37	156	0.15	21.0	441	2.7
ZZ57751		0.005	0.21	5.25	143	0.11	21.0	271	1.5
ZZ57752		<0.005	0.17	1.89	101	0.09	12.25	202	1.2
ZZ57753		0.016	0.27	1.74	121	0.20	15.80	237	1.2
ZZ57754		0.007	0.15	2.59	89	0.10	13.00	165	1.6
ZZ57755		0.006	0.21	1.37	61	0.09	13.05	194	2.2
ZZ57756		0.006	0.20	1.74	69	0.08	12.70	201	1.9
ZZ57757		0.005	0.11	1.16	31	0.07	8.83	118	1.7
ZZ57758		0.006	0.14	2.81	40	0.08	9.36	122	1.7
ZZ57759		0.012	0.13	1.84	40	0.13	7.65	97	1.2
ZZ57760		0.006	0.16	1.78	43	0.07	10.35	120	1.9
ZZ57761		0.007	0.14	1.60	45	0.11	10.05	121	1.7
ZZ57762		0.006	0.13	1.92	44	0.07	11.35	128	1.7
ZZ57763		0.007	0.16	2.55	46	0.11	11.80	147	2.0
ZZ57764		0.007	0.14	2.46	46	0.11	12.35	115	1.4
ZZ57765		0.006	0.16	1.77	47	0.07	13.30	130	2.0
ZZ57766		<0.005	0.11	1.18	31	0.06	10.20	94	1.2
ZZ57767		0.006	0.08	0.53	25	0.06	4.92	45	0.8
ZZ57768		0.007	0.05	3.15	13	0.05	3.49	55	1.4
ZZ57769		0.011	0.07	1.79	38	0.12	7.81	56	1.0
ZZ57770		<0.005	0.10	1.67	37	0.07	15.05	104	1.1
ZZ57771		0.007	0.07	2.07	38	0.07	16.70	138	1.2
ZZ57772		0.007	0.09	3.49	26	0.09	10.40	84	1.2



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**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57773		0.18	0.002	0.27	0.73	7.7	<0.2	<10	790	0.40	0.11	3.85	0.61	8.54	5.8	12
ZZ57774		0.16	0.006	0.17	0.55	5.3	<0.2	10	770	0.31	0.10	4.40	0.54	5.74	5.0	9
ZZ57775		0.26	0.002	0.24	1.28	14.8	<0.2	<10	580	0.85	0.23	1.19	1.30	17.25	9.1	24
ZZ57776		0.17	0.006	0.16	0.72	8.3	<0.2	10	830	0.46	0.12	3.61	0.85	6.52	5.7	11
ZZ57777		0.21	0.004	0.35	1.16	141.5	<0.2	<10	490	0.82	0.27	1.58	2.03	18.45	13.9	21
ZZ57778		0.18	0.004	0.35	0.67	416	<0.2	<10	310	0.59	0.20	0.98	0.71	10.55	7.5	13
ZZ57779		0.18	0.002	0.41	0.61	589	<0.2	<10	250	0.58	0.21	0.75	0.72	9.28	8.0	13
ZZ57780		0.21	0.003	0.34	1.53	39.9	<0.2	<10	810	1.00	0.20	0.64	0.66	19.70	8.0	25
ZZ57781		0.20	<0.001	0.29	0.98	8.0	<0.2	<10	820	0.48	0.15	1.66	0.49	16.95	4.5	18
ZZ57782		0.22	0.002	0.36	1.22	29.3	<0.2	<10	680	0.82	0.19	0.93	0.71	17.90	8.7	23
ZZ57783		0.21	0.004	0.46	1.63	34.8	<0.2	<10	420	0.94	0.21	0.71	0.64	22.8	7.4	29
ZZ57784		0.20	0.001	0.03	0.70	33.4	<0.2	<10	50	0.21	0.19	0.01	0.19	11.45	4.2	13
ZZ57785		0.21	0.001	0.09	1.69	28.3	<0.2	<10	220	0.72	0.21	0.13	0.53	21.8	10.5	27
ZZ57786		0.33	0.004	0.40	1.32	37.9	<0.2	<10	500	0.90	0.26	1.46	0.91	23.4	13.6	25
ZZ57787		0.23	0.003	0.22	0.98	26.1	<0.2	<10	510	0.71	0.14	2.07	1.90	22.1	11.7	20
ZZ57788		0.19	0.005	0.09	0.16	836	<0.2	30	90	0.14	0.02	3.27	1.81	1.24	4.7	3
ZZ57789		0.15	0.016	0.04	0.13	496	<0.2	50	210	0.05	0.02	4.20	0.67	1.16	1.0	2
ZZ57790		0.21	0.022	0.13	1.59	52.3	<0.2	<10	400	0.88	0.22	0.55	1.20	23.7	11.0	27
ZZ57791		0.19	0.003	0.17	1.94	22.5	<0.2	<10	340	1.07	0.26	1.38	1.28	29.2	10.4	31
ZZ57792		0.17	<0.001	0.06	1.59	26.6	<0.2	<10	150	0.47	0.21	0.09	0.44	18.10	7.7	24
ZZ57793		0.18	<0.001	0.26	1.49	93.8	<0.2	<10	270	1.03	0.20	3.10	1.86	21.0	9.0	29



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**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57773		0.31	20.6	1.59	2.04	<0.05	0.04	0.16	0.020	0.04	4.5	8.3	0.26	689	0.93	0.01
ZZ57774		0.35	18.3	1.23	1.54	<0.05	0.04	0.15	0.014	0.03	3.8	5.5	0.20	1110	0.74	0.02
ZZ57775		0.58	33.5	2.43	3.58	<0.05	0.06	0.23	0.032	0.09	8.8	16.9	0.35	159	1.19	0.01
ZZ57776		0.46	23.3	1.62	2.01	<0.05	0.04	0.15	0.015	0.05	3.3	7.7	0.24	2020	1.09	0.01
ZZ57777		0.99	37.9	3.15	3.49	0.05	0.06	0.26	0.032	0.09	8.2	21.0	0.45	402	2.68	0.01
ZZ57778		1.92	31.2	2.07	2.02	0.05	0.05	0.26	0.028	0.07	4.8	11.6	0.33	370	3.40	0.01
ZZ57779		2.02	33.7	2.28	1.91	<0.05	0.04	0.23	0.030	0.05	4.3	9.4	0.21	460	5.59	0.01
ZZ57780		0.79	22.0	3.45	4.01	0.06	0.05	0.22	0.036	0.05	12.3	15.8	0.34	366	2.37	0.01
ZZ57781		0.66	16.9	1.93	3.00	<0.05	0.05	0.19	0.023	0.04	7.3	11.8	0.27	51	0.62	0.01
ZZ57782		0.57	30.3	2.95	3.33	<0.05	0.06	0.34	0.027	0.06	8.9	15.9	0.39	334	1.98	0.01
ZZ57783		0.99	18.7	3.26	4.08	0.05	0.04	0.20	0.036	0.04	14.4	15.3	0.33	423	2.08	0.01
ZZ57784		0.61	13.7	2.60	4.36	<0.05	0.02	0.01	0.018	0.03	5.2	5.2	0.11	122	2.33	<0.01
ZZ57785		0.91	18.2	3.50	4.16	<0.05	0.04	0.08	0.034	0.05	8.1	22.2	0.33	346	1.79	<0.01
ZZ57786		0.84	37.9	3.58	3.92	0.05	0.04	0.37	0.033	0.07	11.0	19.9	0.88	652	2.35	0.01
ZZ57787		0.39	31.0	3.16	3.15	0.05	0.06	0.24	0.028	0.05	11.8	16.9	0.47	1380	1.74	0.01
ZZ57788		0.09	31.2	2.57	0.32	<0.05	0.05	0.18	<0.005	0.01	0.8	0.6	0.24	338	15.95	0.02
ZZ57789		0.15	18.9	0.35	0.32	<0.05	0.04	0.06	<0.005	0.01	0.6	0.7	0.27	249	19.95	0.02
ZZ57790		0.68	22.8	3.30	4.75	0.05	0.05	0.18	0.035	0.05	11.4	17.4	0.39	474	2.41	<0.01
ZZ57791		0.85	17.0	3.06	5.61	0.05	0.04	0.05	0.034	0.04	14.9	12.5	0.35	1310	1.26	0.01
ZZ57792		1.17	9.3	2.69	5.11	<0.05	0.04	0.04	0.026	0.03	7.8	14.6	0.31	239	1.34	<0.01
ZZ57793		0.94	15.9	2.92	4.32	<0.05	0.06	0.15	0.030	0.04	11.1	9.7	0.38	829	4.55	0.01



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**CERTIFICATE OF ANALYSIS WH12194352**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57773		0.30	16.7	1040	8.5	4.6	0.003	0.17	0.64	1.1	2.2	0.3	62.0	<0.01	0.03	0.3
ZZ57774		0.20	13.2	1060	6.3	4.8	0.003	0.20	0.66	0.9	1.3	0.2	62.7	<0.01	0.04	0.3
ZZ57775		0.52	30.0	740	18.1	7.6	0.003	0.09	0.84	4.8	2.5	0.4	28.8	<0.01	0.04	3.1
ZZ57776		0.24	16.2	1050	7.9	4.7	0.011	0.23	0.68	1.2	2.1	0.3	57.8	<0.01	0.04	0.5
ZZ57777		0.56	36.9	760	22.9	8.3	0.007	0.12	1.10	4.9	5.5	0.5	51.4	<0.01	0.06	2.9
ZZ57778		0.18	29.0	600	14.3	6.9	0.005	0.08	1.01	3.4	3.2	0.4	48.7	<0.01	0.06	1.6
ZZ57779		0.14	29.4	550	14.2	8.3	0.009	0.08	1.31	3.2	2.9	0.4	50.7	<0.01	0.09	1.3
ZZ57780		0.36	29.4	450	21.3	7.6	<0.001	0.03	1.03	6.0	1.5	0.5	22.2	<0.01	0.05	2.3
ZZ57781		0.39	15.7	800	13.3	4.8	<0.001	0.11	0.55	3.0	1.7	0.4	46.7	<0.01	0.04	1.7
ZZ57782		0.29	32.4	830	17.7	6.0	<0.001	0.03	1.07	4.4	1.6	0.4	27.8	<0.01	0.06	1.8
ZZ57783		0.60	28.8	630	17.6	8.8	<0.001	0.03	0.84	5.4	1.5	0.5	20.8	<0.01	0.05	2.5
ZZ57784		0.97	14.4	400	13.3	8.3	<0.001	0.01	0.91	1.7	0.7	0.5	4.7	<0.01	0.04	1.8
ZZ57785		0.60	31.3	380	17.4	10.4	<0.001	0.01	0.77	3.1	0.8	0.5	9.6	<0.01	0.05	3.0
ZZ57786		0.42	38.3	920	27.7	6.8	<0.001	0.02	1.09	5.6	1.5	0.4	31.1	<0.01	0.05	3.5
ZZ57787		1.24	29.8	1050	15.7	4.9	0.005	0.20	0.76	4.2	2.6	0.3	63.7	<0.01	0.03	1.4
ZZ57788		0.09	14.6	680	0.9	0.8	0.051	4.22	0.58	0.5	7.1	<0.2	88.1	<0.01	0.04	<0.2
ZZ57789		0.08	7.1	670	0.8	1.1	0.011	1.53	0.88	0.2	4.9	<0.2	97.7	<0.01	<0.01	<0.2
ZZ57790		0.53	28.4	350	23.7	7.0	<0.001	0.03	1.07	5.8	1.2	0.5	16.2	<0.01	0.06	2.5
ZZ57791		0.97	25.4	330	17.4	6.4	<0.001	0.02	0.64	4.5	0.7	0.6	18.3	<0.01	0.02	2.7
ZZ57792		0.77	20.0	170	15.2	8.1	<0.001	0.01	0.59	2.8	0.5	0.6	6.1	<0.01	0.02	2.5
ZZ57793		0.56	37.6	510	21.7	8.7	<0.001	0.03	1.54	4.8	1.5	0.5	22.9	<0.01	0.05	1.6



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57773		0.006	0.06	2.57	24	0.05	6.77	73	1.0
ZZ57774		0.005	0.07	2.72	17	<0.05	6.72	81	1.1
ZZ57775		0.006	0.10	1.73	45	0.07	12.70	136	1.8
ZZ57776		<0.005	0.09	3.42	20	<0.05	5.45	93	1.2
ZZ57777		0.008	0.26	1.30	49	0.12	11.75	155	2.2
ZZ57778		<0.005	0.55	1.14	42	0.20	8.29	107	1.6
ZZ57779		<0.005	0.59	1.05	47	0.12	8.81	102	1.7
ZZ57780		0.005	0.25	1.20	70	0.10	15.30	128	1.1
ZZ57781		0.006	0.10	0.87	39	0.06	5.99	47	1.5
ZZ57782		0.006	0.17	1.62	57	0.08	13.25	127	1.5
ZZ57783		0.008	0.20	1.93	77	0.13	20.4	131	1.1
ZZ57784		0.019	0.11	0.26	65	0.12	1.63	95	0.9
ZZ57785		0.008	0.19	0.70	60	0.15	5.37	106	1.3
ZZ57786		0.011	0.24	1.19	54	0.11	15.00	153	1.4
ZZ57787		0.011	0.09	3.28	46	0.06	19.00	117	2.1
ZZ57788		<0.005	0.09	24.2	6	<0.05	2.03	79	1.5
ZZ57789		<0.005	1.07	17.05	18	<0.05	1.01	110	1.2
ZZ57790		0.008	0.21	1.36	74	0.17	11.85	114	1.5
ZZ57791		0.022	0.16	1.25	68	0.27	15.65	116	1.2
ZZ57792		0.011	0.33	0.45	72	0.17	3.16	112	1.3
ZZ57793		0.008	0.61	1.01	105	0.16	23.9	179	1.7

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Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194352**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194353**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 228 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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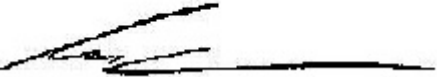
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57501		0.15	0.006	0.17	1.00	9.0	<0.2	10	550	0.61	0.15	2.47	1.05	10.25	10.9	14
ZZ57502		0.33	0.003	0.11	2.15	10.5	<0.2	<10	160	0.88	0.26	0.63	0.33	35.4	24.7	31
ZZ57503		0.17	<0.001	0.03	1.92	11.2	<0.2	<10	180	0.55	0.28	0.13	0.10	25.7	10.5	28
ZZ57504		0.22	0.007	0.03	1.85	10.8	<0.2	<10	120	0.72	0.29	0.35	0.20	31.7	14.5	26
ZZ57505		0.21	0.003	0.09	1.94	9.8	<0.2	<10	140	0.78	0.22	0.72	0.17	25.5	16.8	29
ZZ57506		0.23	0.004	0.07	1.83	16.1	<0.2	<10	90	0.97	0.29	0.15	0.18	31.6	17.6	25
ZZ57507		0.21	0.004	0.10	1.72	14.5	<0.2	<10	70	0.97	0.27	0.48	0.19	29.4	15.8	26
ZZ57508		0.22	0.004	0.17	1.23	37.6	<0.2	<10	120	0.87	0.30	1.14	0.26	22.0	18.4	19
ZZ57509		0.21	<0.001	0.08	1.64	19.2	<0.2	<10	90	0.45	0.38	0.04	0.15	24.9	8.8	23
ZZ57510		0.26	0.003	0.04	1.36	20.5	<0.2	<10	160	0.64	0.30	0.11	0.21	27.9	10.3	24
ZZ57511		0.21	0.002	0.05	1.36	12.6	<0.2	<10	110	0.39	0.25	0.08	0.15	21.3	5.6	22
ZZ57512		0.22	0.001	0.26	1.29	21.4	<0.2	<10	160	0.87	0.31	0.15	1.03	28.4	16.3	23
ZZ57513		0.25	0.002	0.22	1.20	17.7	<0.2	<10	240	0.82	0.25	0.17	1.12	19.70	14.0	23
ZZ57514		0.17	0.002	0.49	1.33	13.7	<0.2	<10	310	0.66	0.25	0.19	0.70	28.3	17.2	22
ZZ57515		0.22	0.001	0.19	1.24	12.8	<0.2	<10	480	0.65	0.24	0.61	0.42	21.9	9.0	21
ZZ57516		0.21	0.003	0.71	1.31	14.1	<0.2	<10	310	0.91	0.22	0.78	1.46	19.80	8.8	21
ZZ57517		0.18	0.008	0.87	1.18	14.1	<0.2	<10	540	0.89	0.24	1.36	2.65	16.80	8.9	19
ZZ57518		0.29	0.005	1.06	0.69	15.5	<0.2	<10	750	0.72	0.21	0.81	2.28	14.45	7.3	14
ZZ57519		0.20	0.003	0.11	1.61	22.7	<0.2	<10	1190	1.27	0.23	0.74	4.11	15.25	24.4	27
ZZ57520		0.14	0.001	0.33	1.16	14.9	<0.2	<10	2310	0.65	0.17	2.57	3.84	12.05	7.8	20
ZZ57521		0.14	0.006	0.83	1.13	14.8	<0.2	<10	510	0.55	0.19	3.49	2.54	12.80	9.1	22
ZZ57522		0.15	0.003	0.37	1.03	13.6	<0.2	<10	490	0.58	0.18	2.96	2.44	13.05	11.0	26
ZZ57523		0.14	0.007	0.40	0.90	14.7	<0.2	<10	300	0.41	0.18	2.95	4.97	10.20	7.8	20
ZZ57524		0.15	0.002	0.27	0.83	7.8	<0.2	<10	650	0.39	0.14	3.59	3.68	9.25	6.8	19
ZZ57525		0.21	0.009	1.04	1.14	37.7	<0.2	<10	950	0.60	0.21	2.71	6.60	17.10	30.6	33
ZZ57526		0.22	0.008	0.25	0.94	38.3	<0.2	<10	2390	0.82	0.21	3.23	15.25	11.55	35.9	32
ZZ57527		0.19	0.015	0.23	0.74	13.7	<0.2	<10	420	0.73	0.27	1.10	1.69	8.66	8.0	22
ZZ57528		0.21	0.006	0.64	1.43	29.6	<0.2	<10	1940	1.14	0.27	2.88	7.32	16.00	29.8	38
ZZ57529		0.15	0.008	0.12	1.02	13.4	<0.2	<10	2920	0.57	0.17	1.47	1.06	8.47	7.9	21
ZZ57530		0.13	0.006	0.74	1.00	14.6	<0.2	<10	2220	0.72	0.19	2.44	8.82	10.05	6.6	28
ZZ57531		0.14	0.007	2.11	0.53	26.1	<0.2	<10	1880	0.45	0.18	3.71	7.82	6.63	14.9	23
ZZ57532		0.14	0.006	1.32	0.54	17.6	<0.2	<10	1100	0.51	0.15	2.61	2.47	7.41	8.7	22
ZZ57533		0.10	0.006	2.44	0.55	46.1	<0.2	10	2130	0.45	0.12	4.62	5.51	6.11	9.7	28
ZZ57534		0.26	0.001	0.58	0.18	5.6	<0.2	<10	1470	0.15	0.21	0.32	0.99	6.46	0.6	8
ZZ57535		0.16	0.004	2.08	0.54	10.2	<0.2	10	1940	0.47	0.16	3.18	10.15	6.49	3.8	35
ZZ57536		0.28	0.003	0.61	1.49	28.6	<0.2	<10	910	0.94	0.29	0.38	2.42	21.6	15.5	25
ZZ57537		0.21	0.006	0.66	0.21	10.5	<0.2	<10	370	0.27	0.21	0.32	0.61	3.41	1.2	4
ZZ57538		0.20	0.003	0.62	0.83	11.9	<0.2	<10	780	0.85	0.27	0.75	1.33	11.55	7.2	15
ZZ57539		0.18	0.003	0.12	1.56	8.7	<0.2	<10	170	0.93	0.44	0.04	0.17	17.60	10.4	25
ZZ57540		0.26	0.003	0.03	1.33	2.0	<0.2	<10	50	0.65	0.51	0.03	0.06	8.77	12.5	33

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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57501		0.81	82.8	1.60	2.70	<0.05	0.12	0.10	0.019	0.05	4.7	13.2	0.37	1980	14.30	0.01
ZZ57502		1.45	98.0	4.65	5.70	0.07	0.08	0.16	0.032	0.10	15.1	37.2	1.09	925	0.59	<0.01
ZZ57503		1.59	19.7	3.44	7.25	<0.05	0.06	0.04	0.033	0.04	12.7	30.9	0.53	280	1.34	<0.01
ZZ57504		1.16	46.1	4.17	7.10	<0.05	0.06	0.05	0.035	0.05	12.4	32.9	0.57	368	1.02	<0.01
ZZ57505		1.12	84.2	4.41	4.90	0.05	0.07	0.13	0.028	0.07	11.7	35.6	1.04	611	0.48	<0.01
ZZ57506		1.27	51.6	4.59	4.47	0.05	0.07	0.07	0.038	0.05	12.9	40.8	0.60	736	0.81	<0.01
ZZ57507		1.74	77.2	4.37	4.56	0.08	0.08	0.06	0.039	0.05	13.3	37.1	0.85	512	0.66	<0.01
ZZ57508		1.94	53.2	3.63	4.24	0.07	0.08	0.18	0.034	0.06	9.8	42.2	0.63	555	1.04	<0.01
ZZ57509		2.36	16.6	3.16	7.66	0.05	0.03	0.07	0.032	0.05	11.9	18.3	0.26	264	2.33	<0.01
ZZ57510		2.72	20.2	3.13	5.93	<0.05	<0.02	0.41	0.028	0.06	12.1	19.7	0.34	550	1.96	<0.01
ZZ57511		2.05	15.4	2.35	5.22	<0.05	<0.02	0.05	0.023	0.05	9.6	13.6	0.28	196	1.68	<0.01
ZZ57512		2.62	35.3	3.48	4.74	0.06	0.02	0.22	0.034	0.07	11.2	21.8	0.39	583	3.79	<0.01
ZZ57513		1.66	33.9	3.52	3.56	<0.05	0.05	0.09	0.036	0.06	8.9	19.4	0.36	589	3.84	<0.01
ZZ57514		2.37	24.1	2.96	4.45	0.05	0.03	0.16	0.034	0.07	11.8	17.4	0.28	820	3.99	<0.01
ZZ57515		1.24	21.0	2.46	4.58	<0.05	0.06	0.13	0.028	0.05	10.2	16.5	0.31	344	1.96	<0.01
ZZ57516		1.85	33.5	3.03	3.50	<0.05	0.08	0.16	0.031	0.08	9.9	23.6	0.45	353	2.87	0.01
ZZ57517		2.05	36.4	2.58	3.36	<0.05	0.10	0.23	0.030	0.08	8.4	21.6	0.48	399	2.75	0.01
ZZ57518		1.06	38.9	1.64	2.62	<0.05	0.10	0.27	0.035	0.06	6.9	11.8	0.21	469	6.23	<0.01
ZZ57519		0.90	24.2	6.21	3.94	0.05	0.06	0.08	0.032	0.06	7.6	14.9	0.40	682	14.75	0.01
ZZ57520		0.45	23.5	2.22	2.96	<0.05	0.04	0.14	0.027	0.04	8.8	10.6	0.31	325	3.67	<0.01
ZZ57521		0.57	22.0	1.98	2.86	0.05	0.04	0.18	0.031	0.05	12.6	7.8	0.23	563	8.56	0.01
ZZ57522		0.53	17.9	2.10	2.59	0.05	0.04	0.14	0.024	0.04	9.4	8.6	0.20	406	11.10	0.01
ZZ57523		0.58	15.8	1.97	2.19	<0.05	0.03	0.15	0.026	0.03	12.7	6.1	0.15	410	9.65	0.01
ZZ57524		0.37	14.8	1.47	2.16	<0.05	0.02	0.13	0.019	0.03	6.9	6.5	0.17	313	2.41	0.01
ZZ57525		0.56	41.5	2.88	3.33	0.06	0.04	0.43	0.038	0.05	13.0	10.6	0.30	328	13.00	0.01
ZZ57526		0.58	29.3	4.29	2.81	0.06	0.07	0.19	0.030	0.07	12.2	7.4	0.20	512	9.53	<0.01
ZZ57527		0.92	25.1	2.98	1.98	<0.05	0.08	0.18	0.038	0.06	6.1	4.7	0.10	164	3.83	<0.01
ZZ57528		0.45	29.8	4.83	3.39	0.06	0.10	0.18	0.038	0.08	12.2	9.8	0.28	465	14.25	<0.01
ZZ57529		0.52	17.6	2.24	2.92	<0.05	0.06	0.12	0.025	0.05	4.8	7.3	0.17	214	7.45	<0.01
ZZ57530		0.46	28.8	2.10	2.43	<0.05	0.07	0.17	0.028	0.05	7.4	7.9	0.26	222	5.69	<0.01
ZZ57531		0.50	47.9	2.43	1.51	0.05	0.05	0.68	0.028	0.06	6.0	2.1	0.04	204	73.7	<0.01
ZZ57532		0.31	21.2	1.66	1.62	0.05	0.07	0.40	0.026	0.04	6.1	2.9	0.09	295	10.15	<0.01
ZZ57533		0.49	44.9	1.45	1.52	<0.05	0.07	0.32	0.023	0.05	6.8	2.1	0.06	249	72.0	<0.01
ZZ57534		0.49	16.7	0.58	0.94	<0.05	0.04	0.09	0.020	0.07	3.3	1.0	0.02	7	13.15	<0.01
ZZ57535		0.60	51.5	1.07	1.56	0.06	0.09	0.19	0.029	0.05	7.4	3.0	0.07	127	8.21	<0.01
ZZ57536		1.36	86.6	3.82	4.01	0.06	0.04	0.16	0.039	0.08	11.0	24.6	0.53	571	10.15	<0.01
ZZ57537		1.14	19.2	0.81	0.61	<0.05	0.04	0.22	0.012	0.06	1.9	1.0	0.06	78	8.82	<0.01
ZZ57538		0.86	31.0	1.91	2.76	<0.05	0.10	0.10	0.033	0.08	6.0	10.9	0.22	432	4.88	<0.01
ZZ57539		3.85	20.7	3.26	6.94	<0.05	<0.02	0.04	0.029	0.09	8.0	11.8	0.24	693	1.16	<0.01
ZZ57540		2.95	30.2	3.61	5.55	<0.05	0.02	0.02	0.027	0.09	4.0	12.1	0.30	501	0.46	<0.01



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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57501		0.21	41.5	750	8.7	3.7	0.029	0.68	1.07	3.3	6.4	0.2	110.5	<0.01	0.03	1.1
ZZ57502		0.11	37.0	780	21.3	6.6	<0.001	0.03	0.48	8.4	1.3	0.2	36.8	<0.01	0.06	4.0
ZZ57503		0.91	20.3	170	16.1	9.5	<0.001	<0.01	0.57	3.6	0.3	0.7	12.6	<0.01	0.06	3.6
ZZ57504		0.41	21.3	380	20.9	7.3	<0.001	0.01	0.50	4.1	0.4	0.5	19.9	<0.01	0.09	3.4
ZZ57505		0.15	29.7	460	15.3	5.1	<0.001	0.02	0.50	7.5	1.0	0.2	31.5	<0.01	0.05	2.6
ZZ57506		0.16	29.2	550	22.2	6.9	<0.001	0.02	0.48	6.8	1.0	0.2	12.4	<0.01	0.05	3.7
ZZ57507		0.14	31.6	570	17.9	5.4	0.002	0.03	0.63	8.2	1.0	0.4	31.6	<0.01	0.10	3.3
ZZ57508		0.11	33.8	730	23.4	5.6	0.001	0.05	0.83	6.2	1.3	0.3	67.3	<0.01	0.07	2.5
ZZ57509		1.28	18.9	330	20.8	15.1	0.001	0.01	0.90	3.2	0.7	0.9	9.5	<0.01	0.08	3.5
ZZ57510		0.49	22.4	620	18.3	15.2	0.001	0.02	0.93	1.8	0.5	0.6	12.5	<0.01	0.05	0.5
ZZ57511		0.46	15.6	620	12.5	13.4	<0.001	0.02	0.72	1.0	0.5	0.6	10.0	<0.01	0.04	0.3
ZZ57512		0.54	36.1	780	25.5	12.6	0.001	0.02	1.69	3.4	1.2	0.5	20.6	<0.01	0.07	1.7
ZZ57513		0.45	31.1	650	18.7	8.8	0.002	0.01	1.62	3.7	1.1	0.6	16.2	<0.01	0.06	2.4
ZZ57514		0.35	24.5	1390	19.6	16.2	0.001	0.06	1.30	2.4	1.4	0.5	16.5	<0.01	0.04	0.7
ZZ57515		0.55	21.6	980	14.0	9.8	<0.001	0.05	0.69	2.9	1.1	0.5	29.3	<0.01	0.02	1.4
ZZ57516		0.33	30.1	1100	16.1	12.4	0.002	0.06	1.30	3.8	2.1	0.4	59.3	<0.01	0.04	1.3
ZZ57517		0.41	29.9	1090	16.3	12.1	0.007	0.15	1.23	3.9	6.3	0.4	92.3	<0.01	0.03	1.3
ZZ57518		0.21	35.5	960	14.2	8.8	0.008	0.10	2.35	3.5	3.1	0.5	80.5	<0.01	0.08	1.0
ZZ57519		0.39	199.0	1490	12.6	9.4	0.007	0.05	3.14	3.4	5.5	0.5	24.6	<0.01	0.08	1.2
ZZ57520		0.42	34.8	980	10.0	4.7	0.003	0.10	0.77	2.0	1.9	0.4	32.8	<0.01	0.06	0.5
ZZ57521		0.50	50.1	1300	10.6	6.7	0.004	0.12	1.02	1.4	3.4	0.5	26.1	<0.01	0.10	0.3
ZZ57522		0.41	57.6	1130	10.4	5.2	0.004	0.09	1.19	1.5	2.3	0.5	27.3	<0.01	0.07	0.4
ZZ57523		0.39	30.9	1330	10.1	5.1	0.003	0.15	1.23	0.9	1.8	0.5	20.1	<0.01	0.09	0.2
ZZ57524		0.42	25.6	1160	7.3	3.5	0.002	0.13	0.80	0.9	1.6	0.4	24.5	<0.01	0.06	0.2
ZZ57525		0.60	118.0	2030	12.6	5.9	0.004	0.07	2.40	2.6	5.1	0.8	29.6	<0.01	0.13	0.8
ZZ57526		0.45	322	2230	12.5	5.5	0.002	0.14	5.54	2.7	2.4	0.6	27.9	<0.01	0.12	0.8
ZZ57527		0.22	50.9	1180	15.6	7.0	0.002	0.09	0.99	3.1	1.0	0.7	30.8	<0.01	0.11	1.1
ZZ57528		0.39	299	1920	15.8	5.5	0.003	0.07	2.77	3.5	2.4	0.6	34.7	<0.01	0.15	1.1
ZZ57529		0.34	53.8	1060	9.1	5.6	0.003	0.12	1.09	2.4	0.9	0.5	29.7	<0.01	0.08	0.8
ZZ57530		0.32	57.1	1450	10.3	5.3	0.003	0.13	1.56	2.5	2.4	0.4	49.2	<0.01	0.09	0.6
ZZ57531		0.17	155.5	3010	12.1	4.5	0.006	0.15	3.52	1.2	7.5	0.6	72.5	<0.01	0.25	0.4
ZZ57532		0.20	74.7	2220	8.9	4.3	0.007	0.16	2.09	1.2	4.3	0.5	46.0	<0.01	0.08	0.4
ZZ57533		0.17	121.5	3040	7.0	4.5	0.021	0.24	4.75	1.1	6.7	0.4	133.0	<0.01	0.16	0.2
ZZ57534		0.07	10.3	540	11.6	5.3	0.008	0.13	1.94	0.9	1.2	0.5	132.0	<0.01	0.05	0.9
ZZ57535		0.16	79.7	3080	9.3	5.4	0.030	0.22	4.22	1.4	10.1	0.5	131.5	<0.01	0.18	0.5
ZZ57536		0.20	56.8	1220	18.9	8.2	0.004	0.03	4.34	4.5	3.3	0.5	41.5	<0.01	0.07	2.1
ZZ57537		0.09	14.4	180	12.5	5.1	0.019	0.03	3.22	1.8	1.9	0.4	42.5	<0.01	0.06	0.7
ZZ57538		0.22	23.4	1010	14.6	10.1	0.004	0.07	2.10	3.4	2.5	0.5	46.7	<0.01	0.06	1.2
ZZ57539		0.74	13.5	440	19.2	20.2	<0.001	0.01	0.45	3.0	0.4	0.8	7.3	<0.01	0.03	2.4
ZZ57540		0.56	20.4	390	12.1	12.6	<0.001	0.01	0.27	3.5	0.2	1.1	7.8	<0.01	0.03	3.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57501		0.006	0.12	21.9	25	<0.05	7.43	115	3.4
ZZ57502		0.006	0.07	0.82	47	<0.05	13.45	84	2.8
ZZ57503		0.019	0.14	0.45	65	0.21	2.93	50	2.3
ZZ57504		0.008	0.09	0.58	60	0.09	4.22	46	1.9
ZZ57505		0.007	0.06	0.44	47	<0.05	10.80	72	2.1
ZZ57506		<0.005	0.07	0.77	33	<0.05	13.65	68	2.2
ZZ57507		<0.005	0.07	1.31	36	<0.05	13.20	76	2.2
ZZ57508		<0.005	0.13	1.31	26	0.07	13.40	93	2.8
ZZ57509		0.018	0.24	0.65	56	0.24	3.02	58	1.3
ZZ57510		0.021	0.18	0.70	50	0.26	4.69	76	<0.5
ZZ57511		0.015	0.18	0.61	45	0.21	2.96	61	<0.5
ZZ57512		0.017	0.22	1.29	45	0.18	9.16	146	0.6
ZZ57513		0.009	0.18	1.00	47	0.10	8.06	174	1.1
ZZ57514		0.008	0.31	1.15	46	0.11	8.99	114	0.6
ZZ57515		0.010	0.17	0.83	41	0.14	6.93	80	1.3
ZZ57516		0.007	0.19	3.14	40	0.07	13.90	181	2.2
ZZ57517		0.008	0.21	7.84	35	0.08	13.05	170	2.5
ZZ57518		0.005	0.56	2.69	84	0.06	12.95	117	3.1
ZZ57519		0.008	0.76	3.29	130	0.11	11.50	2070	1.3
ZZ57520		0.008	0.10	4.40	48	0.11	17.95	216	1.2
ZZ57521		0.010	0.21	6.16	53	0.12	25.2	233	1.0
ZZ57522		0.009	0.19	5.78	57	0.17	18.15	212	0.9
ZZ57523		0.008	0.20	5.14	46	0.11	20.7	169	0.6
ZZ57524		0.010	0.09	3.51	40	0.16	13.65	135	0.7
ZZ57525		0.016	0.23	5.50	58	0.33	28.9	442	1.0
ZZ57526		0.008	0.37	8.15	99	0.23	41.9	1310	2.2
ZZ57527		<0.005	0.28	2.35	37	0.24	16.90	239	2.3
ZZ57528		0.007	0.23	4.23	104	0.14	30.9	1160	2.1
ZZ57529		0.005	0.15	1.98	61	0.14	9.42	221	1.5
ZZ57530		0.006	0.14	7.20	74	0.07	19.90	336	1.9
ZZ57531		<0.005	0.79	14.65	70	0.23	30.2	766	1.6
ZZ57532		<0.005	0.25	14.55	90	0.11	23.6	263	2.1
ZZ57533		<0.005	0.61	23.0	108	0.33	28.2	478	2.5
ZZ57534		<0.005	0.66	1.64	74	0.10	4.91	58	2.0
ZZ57535		<0.005	0.34	11.80	102	0.14	20.3	317	2.8
ZZ57536		<0.005	0.62	2.21	165	0.08	14.05	216	0.9
ZZ57537		<0.005	0.76	1.92	65	0.06	6.46	38	2.4
ZZ57538		<0.005	0.35	2.34	74	0.07	9.58	117	2.7
ZZ57539		0.012	0.10	0.67	46	0.14	3.60	54	0.5
ZZ57540		0.011	0.06	1.29	33	0.17	3.85	58	0.5



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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57541		0.22	0.001	0.14	1.82	11.6	<0.2	<10	80	0.82	0.52	0.02	0.12	13.60	13.4	35
ZZ57542		0.22	0.003	0.12	1.90	15.9	<0.2	<10	80	0.56	0.50	0.03	0.10	14.55	8.1	36
ZZ57543		0.21	0.001	0.06	2.06	22.2	<0.2	<10	100	0.86	0.53	0.04	0.18	17.15	14.4	36
ZZ57544		0.26	0.001	0.04	1.96	9.7	<0.2	<10	220	1.46	0.47	0.03	0.13	17.15	20.7	30
ZZ57545		0.28	0.004	0.03	1.50	10.1	<0.2	<10	160	1.02	0.31	0.11	0.12	35.0	12.5	27
ZZ57546		0.21	0.003	0.04	1.50	9.6	<0.2	<10	50	0.48	0.47	0.02	0.09	12.95	8.2	23
ZZ57547		0.27	0.001	0.03	1.49	12.2	<0.2	<10	110	0.56	0.37	0.03	0.10	22.1	9.9	19
ZZ57548		0.23	0.002	0.02	1.22	21.7	<0.2	<10	50	0.57	0.60	0.02	0.07	13.55	9.5	17
ZZ57549		0.24	0.001	0.02	1.09	7.1	<0.2	<10	110	0.38	0.49	0.01	0.06	9.01	8.1	25
ZZ57550		0.27	0.002	0.04	0.70	3.4	<0.2	<10	360	1.40	0.40	0.14	0.06	7.56	14.8	30
ZZ57551		0.25	0.002	0.21	0.46	12.9	<0.2	<10	260	0.65	0.19	0.90	0.36	56.6	27.2	23
ZZ57552		0.15	0.004	1.60	0.51	22.8	<0.2	<10	560	0.35	0.39	0.58	1.83	6.43	3.0	50
ZZ57553		0.18	0.001	1.39	0.61	7.6	<0.2	<10	160	0.21	0.22	0.01	0.21	3.80	3.1	13
ZZ57554		0.20	0.002	0.51	0.68	10.0	<0.2	<10	100	0.28	0.29	0.02	0.27	6.96	8.0	9
ZZ57555		0.21	0.001	0.46	1.48	15.6	<0.2	<10	190	0.42	0.29	0.04	0.60	19.05	6.3	21
ZZ57556		0.25	0.001	0.21	1.11	16.6	<0.2	<10	140	0.30	0.24	0.02	0.24	15.25	6.5	14
ZZ57557		0.26	<0.001	0.10	0.72	13.1	<0.2	<10	130	0.20	0.24	0.02	0.15	13.70	5.6	8
ZZ57558		0.22	0.001	0.15	1.26	18.4	<0.2	<10	100	0.27	0.24	0.03	0.27	11.95	7.4	19
ZZ57559		0.22	0.002	0.24	1.94	23.1	<0.2	<10	160	0.46	0.28	0.05	0.28	21.9	7.5	28
ZZ57560		0.23	0.001	0.21	1.04	13.2	<0.2	<10	90	0.26	0.30	0.02	0.24	14.90	5.6	17
ZZ57561		0.18	0.003	0.43	1.37	10.1	<0.2	<10	220	0.41	0.20	0.11	0.27	24.1	5.6	24
ZZ57562		0.21	0.001	0.18	0.76	13.7	<0.2	<10	100	0.22	0.26	0.02	0.25	13.80	6.1	14
ZZ57563		0.20	0.005	1.15	1.20	9.8	<0.2	<10	860	0.69	0.24	0.37	1.49	25.7	7.2	18
ZZ57564		0.21	0.002	0.36	1.52	25.7	<0.2	<10	380	0.88	0.32	0.44	0.56	11.80	19.1	24
ZZ57565		0.24	0.007	0.88	1.70	13.8	<0.2	<10	390	0.87	0.31	0.39	0.30	13.30	10.0	26
ZZ57566		0.23	0.005	0.22	1.44	11.9	<0.2	<10	120	0.45	0.31	0.01	0.07	6.12	5.5	25
ZZ57567		0.33	0.002	0.15	0.68	15.6	<0.2	<10	160	0.89	0.35	0.24	0.10	7.84	12.9	15
ZZ57568		0.18	0.003	0.42	1.38	13.3	<0.2	<10	280	1.07	0.27	0.65	0.57	12.80	10.2	20
ZZ57569		0.22	0.002	0.24	1.77	40.8	<0.2	<10	210	0.76	0.28	0.53	0.53	28.9	15.5	30
ZZ57570		0.20	0.004	0.21	1.72	94.9	<0.2	<10	130	1.10	0.30	0.51	1.73	18.25	15.0	33
ZZ57571		0.16	0.002	0.20	1.64	86.3	<0.2	<10	360	0.88	0.25	1.43	0.40	17.45	13.3	26
ZZ57572		0.19	0.005	0.23	1.66	47.5	<0.2	<10	300	0.89	0.23	2.04	0.46	20.3	16.5	27
ZZ57573		0.19	0.002	0.17	1.62	22.3	<0.2	<10	350	0.82	0.25	1.32	0.35	21.4	17.0	27
ZZ57574		0.17	0.004	0.37	1.26	33.6	<0.2	<10	410	0.89	0.24	1.80	0.48	12.75	12.2	20
ZZ57575		0.21	0.001	0.19	1.06	33.2	<0.2	<10	330	0.79	0.23	1.19	0.50	11.30	13.3	16
ZZ57576		0.12	0.008	0.28	0.91	23.6	<0.2	10	740	0.49	0.14	3.95	0.63	8.20	7.5	14
ZZ57577		0.16	0.012	0.22	1.55	32.5	<0.2	<10	430	0.75	0.26	2.88	1.00	20.4	14.9	26
ZZ57578		0.22	0.003	0.37	1.62	51.6	<0.2	<10	730	0.92	0.26	1.50	0.66	26.4	13.1	27
ZZ57579		0.17	0.010	0.39	1.01	66.2	<0.2	10	650	0.72	0.17	3.91	0.92	12.05	8.0	19
ZZ57580		0.15	0.010	0.39	1.25	49.8	<0.2	<10	560	0.70	0.20	2.94	0.88	18.55	11.2	21



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57541		2.88	20.5	4.70	9.07	<0.05	<0.02	0.05	0.045	0.07	6.3	12.8	0.27	1290	1.17	<0.01
ZZ57542		2.55	20.2	5.29	8.66	<0.05	0.03	0.05	0.039	0.07	7.0	17.9	0.33	400	1.48	<0.01
ZZ57543		3.00	25.5	4.94	8.09	<0.05	0.05	0.04	0.044	0.08	8.3	23.0	0.36	601	1.97	<0.01
ZZ57544		5.21	32.9	4.01	7.58	<0.05	0.02	0.01	0.038	0.08	7.0	21.8	0.37	803	1.06	<0.01
ZZ57545		2.10	33.0	2.95	4.54	0.05	0.02	0.03	0.030	0.06	16.1	19.1	0.52	436	0.95	<0.01
ZZ57546		1.99	22.6	4.29	6.99	<0.05	0.02	0.01	0.035	0.06	6.4	11.8	0.21	327	1.83	<0.01
ZZ57547		1.95	20.5	2.94	5.81	<0.05	<0.02	0.02	0.029	0.06	10.3	12.2	0.16	509	1.39	<0.01
ZZ57548		2.21	34.7	3.33	4.72	<0.05	<0.02	0.02	0.037	0.06	6.5	13.0	0.25	435	0.99	<0.01
ZZ57549		2.77	11.0	3.61	4.59	<0.05	<0.02	<0.01	0.026	0.07	4.2	4.1	0.10	1380	1.31	<0.01
ZZ57550		3.29	29.4	4.38	2.54	<0.05	0.02	0.01	0.051	0.07	3.7	8.4	0.12	1760	1.67	<0.01
ZZ57551		0.60	238	6.58	2.39	0.09	0.02	0.07	0.115	0.04	30.5	1.5	0.06	1000	2.61	<0.01
ZZ57552		1.25	19.8	2.45	2.42	0.08	<0.02	0.15	0.045	0.09	4.3	2.5	0.03	39	4.15	0.01
ZZ57553		1.54	22.6	1.41	3.41	<0.05	<0.02	0.04	0.022	0.07	1.8	0.8	0.02	22	7.48	<0.01
ZZ57554		1.03	39.7	2.26	3.67	<0.05	<0.02	0.02	0.035	0.06	3.4	2.6	0.05	112	3.73	<0.01
ZZ57555		1.32	22.7	3.01	5.50	<0.05	<0.02	0.04	0.028	0.07	9.3	10.9	0.18	312	2.56	<0.01
ZZ57556		1.09	28.6	2.51	4.67	<0.05	<0.02	0.03	0.026	0.05	7.4	6.9	0.14	144	3.10	<0.01
ZZ57557		0.98	29.7	1.76	3.67	<0.05	<0.02	0.05	0.020	0.05	6.5	1.9	0.05	142	3.26	<0.01
ZZ57558		1.43	36.9	2.42	5.40	<0.05	0.02	0.03	0.034	0.06	5.6	6.8	0.15	153	3.38	<0.01
ZZ57559		2.30	21.6	3.29	6.91	<0.05	0.03	0.04	0.038	0.09	10.4	28.4	0.33	285	2.07	<0.01
ZZ57560		1.57	32.7	2.20	5.86	<0.05	<0.02	0.04	0.028	0.07	7.2	3.3	0.09	116	2.85	<0.01
ZZ57561		1.25	23.3	2.17	4.57	<0.05	<0.02	0.09	0.030	0.05	12.5	12.7	0.31	135	1.85	<0.01
ZZ57562		1.76	36.2	1.99	4.72	<0.05	<0.02	0.03	0.027	0.08	6.7	2.4	0.07	101	3.30	<0.01
ZZ57563		1.76	35.2	2.13	3.82	0.06	<0.02	0.15	0.031	0.08	10.9	10.1	0.20	183	2.87	0.01
ZZ57564		1.90	32.1	3.79	4.37	0.05	0.04	0.10	0.032	0.09	4.5	28.6	0.53	866	8.15	0.01
ZZ57565		2.03	26.7	3.03	4.74	<0.05	0.04	0.16	0.039	0.10	5.6	30.8	0.39	393	3.49	0.01
ZZ57566		3.32	17.4	3.61	5.29	<0.05	0.03	0.02	0.036	0.12	2.5	17.1	0.34	84	2.65	0.01
ZZ57567		2.31	33.6	3.65	2.58	<0.05	0.02	0.03	0.050	0.11	2.9	9.1	0.13	142	1.96	0.01
ZZ57568		5.20	38.7	3.25	3.70	0.06	0.05	0.18	0.044	0.12	5.6	23.2	0.29	374	1.59	0.01
ZZ57569		1.43	45.9	3.90	5.87	<0.05	0.06	0.12	0.039	0.10	11.2	26.3	0.63	524	1.64	<0.01
ZZ57570		1.91	32.4	4.00	3.75	0.05	0.06	1.70	0.046	0.08	14.2	17.2	0.23	753	1.56	0.01
ZZ57571		1.28	55.5	3.54	4.97	0.05	0.08	0.42	0.041	0.12	9.0	26.8	0.67	322	1.17	0.01
ZZ57572		1.60	70.6	3.58	4.80	<0.05	0.09	0.42	0.032	0.11	10.4	26.9	1.05	524	1.17	<0.01
ZZ57573		1.18	55.1	3.75	4.64	0.05	0.08	0.15	0.035	0.10	9.9	28.0	0.81	614	1.08	<0.01
ZZ57574		1.00	45.4	2.88	3.58	<0.05	0.08	0.20	0.030	0.09	6.7	20.6	0.47	352	1.08	0.01
ZZ57575		0.94	36.0	3.02	3.11	<0.05	0.05	0.17	0.037	0.08	5.3	17.9	0.36	420	1.65	0.01
ZZ57576		1.30	42.1	1.83	2.50	<0.05	0.06	0.22	0.022	0.06	4.9	11.7	0.34	237	0.89	0.01
ZZ57577		1.26	50.5	3.27	4.29	0.05	0.05	0.15	0.035	0.08	13.9	22.1	0.83	663	1.31	0.01
ZZ57578		1.37	32.2	3.03	4.99	<0.05	0.04	0.20	0.037	0.06	12.3	18.1	0.43	606	1.74	0.01
ZZ57579		1.23	35.1	1.78	2.77	0.06	0.05	0.28	0.025	0.05	12.5	10.7	0.29	271	1.24	0.01
ZZ57580		0.83	37.3	2.28	3.60	0.05	0.05	0.29	0.026	0.06	10.7	16.8	0.43	530	0.49	0.01

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57541		0.88	16.3	1040	17.4	18.9	<0.001	0.03	0.57	3.2	0.6	0.9	5.8	<0.01	0.04	2.1
ZZ57542		0.95	17.1	710	20.3	16.5	<0.001	0.03	0.64	3.0	0.6	0.8	6.1	<0.01	0.03	2.4
ZZ57543		1.32	21.8	620	20.3	19.4	<0.001	0.02	0.85	3.8	0.9	0.8	7.2	<0.01	0.06	3.7
ZZ57544		0.46	22.7	400	17.2	16.3	<0.001	0.01	0.49	4.6	0.5	0.6	8.1	<0.01	0.01	3.5
ZZ57545		0.68	26.9	440	20.0	8.5	<0.001	<0.01	0.61	4.0	0.4	0.5	11.2	<0.01	0.01	5.0
ZZ57546		0.75	13.5	460	19.5	15.0	<0.001	0.01	0.77	3.1	0.4	0.7	6.6	<0.01	0.05	2.7
ZZ57547		0.60	14.9	230	15.1	16.9	<0.001	<0.01	0.62	3.2	0.7	0.7	7.8	<0.01	0.04	3.3
ZZ57548		0.29	17.8	310	22.4	13.8	<0.001	0.01	0.44	3.6	0.3	0.5	9.2	<0.01	0.04	2.8
ZZ57549		0.52	9.7	390	20.6	19.7	<0.001	0.01	0.55	2.3	<0.2	0.9	4.9	<0.01	0.04	1.2
ZZ57550		0.38	19.5	250	24.7	9.7	<0.001	0.01	0.50	7.6	0.5	0.7	31.9	<0.01	0.02	3.4
ZZ57551		0.15	125.0	2130	19.9	4.3	<0.001	0.11	1.06	17.1	1.9	1.2	182.0	<0.01	0.03	3.0
ZZ57552		0.12	19.4	1760	22.2	8.7	0.010	0.19	2.62	2.2	24.4	0.8	153.0	<0.01	0.21	0.7
ZZ57553		0.14	26.1	650	14.3	9.0	<0.001	0.04	2.72	1.3	1.4	0.6	11.1	<0.01	0.07	0.7
ZZ57554		0.22	29.8	620	14.0	12.8	<0.001	0.01	2.54	2.1	0.9	0.5	9.8	<0.01	0.08	1.1
ZZ57555		0.65	17.7	530	15.1	13.8	<0.001	0.01	1.09	2.7	0.4	0.7	7.7	<0.01	0.05	2.6
ZZ57556		0.31	24.4	340	13.2	11.8	<0.001	0.01	1.48	2.4	1.1	0.5	6.9	<0.01	0.07	1.9
ZZ57557		0.28	21.5	250	11.0	10.4	<0.001	<0.01	1.47	1.7	1.1	0.6	5.1	<0.01	0.04	1.6
ZZ57558		0.22	29.8	580	12.4	11.8	<0.001	0.01	1.71	2.8	1.3	0.6	7.6	<0.01	0.05	1.1
ZZ57559		0.70	20.3	520	18.8	17.4	<0.001	0.01	0.80	3.6	0.7	0.7	9.8	<0.01	0.06	2.7
ZZ57560		0.35	20.1	750	14.3	11.2	<0.001	0.02	1.50	1.2	1.4	0.8	6.7	<0.01	0.05	0.4
ZZ57561		0.68	21.9	670	10.6	10.6	<0.001	0.02	1.02	2.1	1.0	0.5	11.6	<0.01	0.03	1.3
ZZ57562		0.30	24.8	530	12.7	14.2	0.001	0.01	1.94	1.6	1.1	0.6	6.1	<0.01	0.05	0.8
ZZ57563		0.46	34.3	1130	13.9	10.4	0.001	0.07	1.68	2.7	2.5	0.5	30.0	<0.01	0.05	1.1
ZZ57564		0.20	44.6	1600	19.6	10.3	0.001	0.04	0.81	5.3	1.8	0.5	22.0	<0.01	0.04	3.8
ZZ57565		0.25	33.2	1190	16.3	17.4	0.001	0.06	0.71	6.2	2.2	0.5	32.8	<0.01	0.03	2.6
ZZ57566		0.17	21.9	710	21.4	15.8	<0.001	0.16	0.56	2.9	0.8	0.5	24.7	<0.01	0.06	2.2
ZZ57567		0.08	39.1	610	25.8	12.1	<0.001	0.13	0.67	5.0	0.6	0.4	32.6	<0.01	0.03	2.9
ZZ57568		0.14	63.1	860	18.7	20.2	0.003	0.11	0.57	6.6	2.5	0.5	49.7	<0.01	0.05	2.6
ZZ57569		0.27	37.4	600	20.5	10.8	<0.001	0.02	0.84	5.4	0.9	0.5	19.5	<0.01	0.08	3.1
ZZ57570		0.20	46.9	1300	22.4	12.0	<0.001	0.06	0.81	5.6	1.6	0.5	16.1	<0.01	0.06	3.1
ZZ57571		0.30	36.8	610	15.5	8.7	<0.001	0.05	0.75	6.6	1.1	0.4	33.0	<0.01	0.07	2.7
ZZ57572		0.16	39.7	670	16.6	7.8	<0.001	0.05	0.71	6.4	1.5	0.3	40.7	<0.01	0.07	2.2
ZZ57573		0.17	36.6	540	17.6	7.4	<0.001	0.04	0.66	6.9	0.7	0.4	31.0	<0.01	0.07	3.0
ZZ57574		0.19	33.1	770	14.7	8.7	0.002	0.08	0.65	4.7	1.8	0.4	43.2	<0.01	0.05	1.9
ZZ57575		0.15	34.7	770	15.0	8.0	0.001	0.05	0.81	4.0	0.9	0.4	29.9	<0.01	0.05	2.2
ZZ57576		0.20	21.0	860	8.7	6.2	0.001	0.15	0.71	2.1	1.0	0.2	75.3	<0.01	0.05	0.6
ZZ57577		0.26	30.9	780	19.5	7.6	<0.001	0.07	0.68	4.9	0.8	0.4	41.5	<0.01	0.09	1.3
ZZ57578		0.55	31.7	580	19.7	7.7	<0.001	0.04	0.87	3.8	1.0	0.5	31.7	<0.01	0.07	1.5
ZZ57579		0.35	27.4	970	11.2	6.3	<0.001	0.13	0.88	2.0	2.7	0.3	64.4	<0.01	0.04	0.5
ZZ57580		0.46	25.3	890	14.1	6.3	<0.001	0.10	0.68	3.3	1.6	0.4	44.3	<0.01	0.03	1.0

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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57541		0.016	0.09	0.73	50	0.14	3.80	71	0.5
ZZ57542		0.017	0.12	0.67	57	0.20	2.97	74	0.7
ZZ57543		0.026	0.10	0.70	59	0.24	3.48	93	1.8
ZZ57544		0.009	0.11	0.83	40	0.10	5.35	75	0.9
ZZ57545		0.026	0.07	1.22	39	0.17	7.64	89	0.7
ZZ57546		0.009	0.09	0.48	43	0.14	2.76	52	0.8
ZZ57547		0.009	0.09	0.55	46	0.14	3.12	51	0.7
ZZ57548		<0.005	0.10	0.53	31	0.07	3.59	69	0.5
ZZ57549		0.014	0.09	0.59	43	0.29	1.73	39	<0.5
ZZ57550		0.012	0.05	1.66	39	0.25	6.17	62	0.5
ZZ57551		<0.005	0.29	0.90	90	<0.05	24.1	74	0.6
ZZ57552		<0.005	0.48	1.30	73	0.05	6.66	77	0.5
ZZ57553		<0.005	0.29	0.35	99	0.05	1.88	136	<0.5
ZZ57554		<0.005	0.13	0.27	59	0.05	2.48	199	<0.5
ZZ57555		0.011	0.21	0.63	76	0.18	2.67	103	0.6
ZZ57556		0.006	0.17	0.36	63	0.07	2.46	119	<0.5
ZZ57557		0.007	0.14	0.28	64	0.07	1.82	126	<0.5
ZZ57558		<0.005	0.21	0.38	81	0.07	2.63	166	0.6
ZZ57559		0.008	0.27	0.67	70	0.15	3.38	95	0.9
ZZ57560		0.011	0.19	0.46	77	0.14	2.37	121	<0.5
ZZ57561		0.017	0.18	0.80	51	0.21	6.05	87	<0.5
ZZ57562		0.008	0.20	0.41	73	0.10	2.13	156	<0.5
ZZ57563		0.009	0.27	1.30	47	0.14	18.65	128	<0.5
ZZ57564		0.005	0.33	1.59	32	<0.05	14.05	119	1.2
ZZ57565		<0.005	0.28	1.55	42	0.08	10.70	98	0.9
ZZ57566		<0.005	0.19	0.39	34	<0.05	1.55	59	0.8
ZZ57567		<0.005	0.17	0.62	25	<0.05	5.95	138	0.6
ZZ57568		<0.005	0.23	1.23	29	<0.05	28.8	155	1.3
ZZ57569		0.005	0.16	0.93	62	0.07	7.81	121	1.7
ZZ57570		<0.005	0.17	1.19	39	0.07	35.8	209	1.8
ZZ57571		0.005	0.17	0.87	47	0.06	13.00	116	2.6
ZZ57572		<0.005	0.17	1.03	45	0.05	15.95	111	2.5
ZZ57573		<0.005	0.12	0.96	46	<0.05	12.70	106	2.5
ZZ57574		<0.005	0.12	1.15	34	0.07	12.15	126	2.0
ZZ57575		<0.005	0.13	0.84	33	0.06	10.30	140	1.4
ZZ57576		0.005	0.16	2.20	27	0.08	9.10	70	1.9
ZZ57577		0.006	0.14	1.20	50	0.09	19.45	101	1.4
ZZ57578		0.010	0.23	1.23	59	0.18	14.65	106	0.8
ZZ57579		0.006	0.39	2.65	39	0.17	26.5	91	1.5
ZZ57580		0.009	0.19	1.33	39	0.10	16.70	106	1.6



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57581		0.12	0.003	0.31	1.28	42.6	<0.2	<10	460	0.76	0.22	2.84	0.86	15.95	11.5	21
ZZ57582		0.18	0.004	0.40	1.23	53.6	<0.2	<10	400	0.77	0.24	1.56	0.78	20.4	13.8	22
ZZ57583		0.16	0.004	0.32	1.28	32.9	<0.2	10	500	0.70	0.21	1.91	0.41	16.80	11.8	22
ZZ57584		0.21	0.019	1.03	1.10	29.3	<0.2	<10	460	0.84	0.21	1.85	3.49	11.60	6.3	25
ZZ57585		0.15	0.009	1.09	0.64	32.5	<0.2	10	580	0.52	0.16	2.78	2.76	9.64	14.3	18
ZZ57586		0.18	0.005	1.21	0.73	28.6	<0.2	10	590	0.58	0.16	1.81	3.00	11.50	8.3	20
ZZ57587		0.18	0.007	1.20	0.65	28.5	<0.2	10	650	0.60	0.15	2.90	4.52	10.30	13.5	18
ZZ57588		0.17	0.005	0.48	0.65	14.2	<0.2	<10	570	0.46	0.12	4.87	1.84	10.10	5.0	11
ZZ57589		0.21	0.003	0.29	1.49	21.7	<0.2	<10	540	0.78	0.26	0.88	0.87	25.2	8.9	28
ZZ57590		0.21	0.003	0.62	0.77	26.3	<0.2	<10	600	0.59	0.19	2.15	1.67	13.75	8.8	16
ZZ57591		0.14	0.005	0.65	0.56	22.8	<0.2	10	670	0.40	0.11	3.54	1.65	8.41	4.1	15
ZZ57592		0.22	0.003	0.86	1.03	68.3	<0.2	<10	950	0.61	0.20	0.73	1.32	12.20	6.3	26
ZZ57593		0.16	0.007	0.40	0.62	9.0	<0.2	10	770	0.31	0.11	4.75	1.07	9.60	3.6	12
ZZ57594		0.22	0.001	0.57	1.21	21.2	<0.2	<10	560	0.90	0.22	1.56	0.81	16.65	8.0	23
ZZ57595		0.25	0.004	1.06	0.74	16.6	<0.2	<10	720	0.57	0.19	1.47	0.51	9.62	5.3	19
ZZ57596		0.18	0.002	1.07	0.88	20.0	<0.2	<10	1570	0.76	0.20	1.58	1.06	13.10	9.0	20
ZZ57597		0.19	0.002	0.21	1.09	28.2	<0.2	<10	370	0.54	0.23	0.03	0.33	11.45	6.3	23
ZZ57598		0.24	0.001	0.39	1.32	33.6	<0.2	<10	370	0.64	0.22	0.02	0.35	8.83	7.5	28
ZZ57599		0.17	0.003	1.60	0.42	9.8	<0.2	<10	870	0.20	0.16	0.64	0.21	6.26	1.6	16
ZZ57600		0.21	0.003	1.69	0.83	35.2	<0.2	10	2740	0.75	0.22	0.72	0.89	6.63	6.4	34
ZZ57601		0.23	0.003	0.39	0.66	27.2	<0.2	<10	1340	0.65	0.23	0.09	0.54	6.17	6.0	32
ZZ57602		0.26	0.005	0.55	0.35	11.1	<0.2	10	660	0.48	0.21	0.44	0.44	3.89	4.2	13
ZZ57603		0.19	0.002	0.81	0.71	11.1	<0.2	10	1880	0.64	0.16	2.33	1.46	11.30	5.7	16
ZZ57604		0.23	0.003	0.45	1.28	19.2	<0.2	<10	730	0.57	0.25	0.55	0.55	16.40	15.4	23
ZZ57605		0.20	0.002	0.31	0.90	9.3	<0.2	<10	290	0.23	0.17	0.74	0.58	13.80	4.2	19
ZZ57606		0.18	0.006	0.77	0.43	2.0	<0.2	10	1020	0.48	0.06	3.89	1.26	5.39	2.0	5
ZZ57607		0.25	0.004	1.23	1.87	24.2	<0.2	<10	680	1.14	0.28	0.69	1.59	29.2	15.2	30
ZZ57608		0.19	0.002	0.45	2.00	27.4	<0.2	<10	160	0.63	0.30	0.05	0.52	20.8	11.8	31
ZZ57609		0.18	0.001	0.17	1.55	13.8	<0.2	<10	100	0.38	0.29	0.06	0.30	28.3	5.7	21
ZZ57610		0.20	0.003	0.81	1.72	22.0	<0.2	<10	230	0.88	0.25	0.10	0.91	41.3	13.6	28
ZZ57611		0.19	0.002	0.74	1.29	14.0	<0.2	<10	380	0.53	0.23	0.08	0.94	29.1	4.4	20
ZZ57612		0.16	0.010	0.93	0.97	127.5	<0.2	<10	1210	1.16	0.23	1.30	4.03	19.40	12.2	21
ZZ57613		0.19	0.004	0.37	1.39	27.5	<0.2	10	650	0.92	0.25	1.39	1.05	21.2	12.9	23
ZZ57614		0.24	0.003	0.21	1.29	23.3	<0.2	<10	280	0.81	0.24	2.01	2.42	18.50	11.2	20
ZZ57615		0.28	0.003	0.16	1.51	30.6	<0.2	<10	200	0.89	0.31	0.97	0.50	23.9	18.8	26
ZZ57616		0.20	0.002	0.16	1.13	13.9	<0.2	<10	220	0.76	0.21	3.12	0.88	15.55	11.2	17
ZZ57617		0.18	0.003	0.19	1.42	13.2	<0.2	<10	290	0.70	0.22	1.47	0.60	23.4	12.0	25
ZZ57618		0.16	0.002	0.20	1.08	49.5	<0.2	10	230	0.74	0.19	2.89	6.20	16.50	12.6	18
ZZ57619		0.14	0.003	0.18	1.18	26.4	<0.2	10	220	0.74	0.21	2.36	1.47	17.80	11.0	18
ZZ57620		0.15	0.003	0.12	1.17	11.3	<0.2	10	180	0.84	0.21	2.34	0.35	15.95	11.7	18





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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57581		0.87	38.0	2.41	3.51	<0.05	0.06	0.24	0.029	0.06	10.3	17.7	0.44	495	0.73	0.01
ZZ57582		1.18	53.0	3.01	3.79	0.05	0.06	0.29	0.032	0.08	10.2	21.7	0.57	481	1.43	0.01
ZZ57583		0.82	41.9	2.65	3.78	<0.05	0.07	0.24	0.030	0.06	8.2	18.6	0.48	473	1.16	0.01
ZZ57584		1.59	43.2	2.74	3.14	0.06	0.07	0.48	0.024	0.04	7.2	10.1	0.19	413	3.51	0.01
ZZ57585		1.27	34.4	3.29	1.77	0.06	0.06	0.44	0.025	0.06	5.8	6.7	0.21	2510	2.99	0.01
ZZ57586		1.61	40.0	2.52	2.13	0.05	0.06	0.41	0.030	0.06	6.8	7.9	0.19	788	2.55	0.01
ZZ57587		1.48	44.4	3.57	1.80	0.05	0.05	0.38	0.025	0.05	6.3	6.0	0.20	1650	5.34	0.01
ZZ57588		0.57	20.4	1.14	1.87	<0.05	0.02	0.18	0.018	0.02	10.3	3.8	0.11	461	1.09	0.01
ZZ57589		1.26	15.8	2.48	4.59	<0.05	0.03	0.20	0.032	0.05	16.1	11.0	0.32	382	1.39	0.01
ZZ57590		0.85	24.3	2.09	2.13	<0.05	0.03	0.23	0.028	0.05	10.1	7.1	0.19	419	1.83	<0.01
ZZ57591		0.50	35.7	1.06	1.67	<0.05	0.05	0.29	0.016	0.04	7.1	4.7	0.16	252	0.91	0.01
ZZ57592		0.74	17.6	2.01	3.03	<0.05	0.03	0.31	0.031	0.06	9.1	8.0	0.08	147	3.41	<0.01
ZZ57593		0.49	21.2	0.98	1.92	<0.05	0.03	0.15	0.012	0.03	9.8	4.7	0.12	201	0.42	0.01
ZZ57594		0.57	27.3	2.50	3.59	0.06	0.04	0.13	0.037	0.05	13.5	11.6	0.26	289	2.29	0.01
ZZ57595		0.67	37.0	1.91	2.04	<0.05	0.05	0.12	0.029	0.06	5.8	6.1	0.18	146	3.21	<0.01
ZZ57596		0.66	31.2	2.03	2.52	<0.05	0.05	0.20	0.031	0.07	6.5	10.2	0.18	715	3.34	0.01
ZZ57597		1.26	30.2	2.56	3.70	<0.05	0.04	0.04	0.032	0.06	5.3	8.1	0.15	117	4.64	<0.01
ZZ57598		1.23	31.4	3.15	3.94	<0.05	0.03	0.07	0.037	0.06	4.3	15.4	0.17	169	4.92	<0.01
ZZ57599		1.48	27.2	0.96	2.41	<0.05	<0.02	0.10	0.021	0.07	3.2	1.1	0.04	22	2.91	0.01
ZZ57600		0.87	54.4	2.63	2.22	<0.05	0.03	0.15	0.043	0.07	4.2	5.6	0.05	45	8.48	<0.01
ZZ57601		0.51	52.7	3.56	2.26	<0.05	0.02	0.07	0.035	0.08	3.6	2.9	0.04	116	7.43	<0.01
ZZ57602		0.93	42.9	1.61	1.02	<0.05	0.03	0.15	0.037	0.07	2.0	2.2	0.03	50	6.95	<0.01
ZZ57603		0.79	81.1	1.66	2.05	<0.05	0.04	0.30	0.026	0.06	5.9	8.6	0.17	240	3.44	<0.01
ZZ57604		1.15	37.5	3.12	4.48	<0.05	0.05	0.14	0.033	0.07	7.4	16.2	0.40	995	4.95	<0.01
ZZ57605		0.80	17.5	1.65	3.57	<0.05	0.05	0.21	0.023	0.05	6.2	9.7	0.29	88	1.06	0.01
ZZ57606		0.56	58.3	0.70	0.76	0.05	0.09	0.34	0.010	0.02	2.8	0.9	0.26	255	1.13	0.02
ZZ57607		1.28	45.4	3.10	5.46	0.05	0.05	0.20	0.046	0.07	14.6	17.9	0.38	928	2.96	0.01
ZZ57608		1.51	19.9	3.69	6.31	<0.05	0.06	0.05	0.042	0.06	10.1	32.3	0.39	343	2.10	<0.01
ZZ57609		1.41	9.1	2.86	7.15	<0.05	0.05	0.03	0.030	0.04	13.5	18.6	0.23	232	1.82	<0.01
ZZ57610		2.18	41.9	3.45	6.15	0.06	0.04	0.08	0.042	0.07	14.6	17.0	0.42	460	4.02	0.01
ZZ57611		2.34	14.4	2.25	5.67	<0.05	0.02	0.06	0.025	0.05	12.2	10.2	0.19	121	2.43	<0.01
ZZ57612		2.74	59.4	3.38	3.30	0.05	0.07	0.21	0.047	0.09	7.3	9.2	0.28	818	4.27	0.01
ZZ57613		1.52	48.1	3.15	4.34	0.05	0.08	0.20	0.038	0.10	9.1	18.8	0.52	310	2.58	0.01
ZZ57614		1.19	44.4	3.17	4.35	<0.05	0.05	0.12	0.034	0.07	7.1	17.6	0.40	517	3.07	<0.01
ZZ57615		1.22	57.9	4.56	4.99	0.05	0.08	0.12	0.040	0.09	6.3	22.8	0.67	896	2.99	0.01
ZZ57616		0.87	36.8	2.79	3.23	<0.05	0.04	0.14	0.024	0.05	6.1	13.1	0.44	570	2.72	0.01
ZZ57617		0.74	31.2	3.10	4.61	<0.05	0.04	0.12	0.033	0.06	10.5	21.9	0.60	762	9.51	0.01
ZZ57618		3.28	56.2	2.45	3.19	0.06	0.05	0.16	0.030	0.06	6.9	13.2	0.47	875	2.79	0.01
ZZ57619		1.54	40.6	2.85	3.57	0.06	0.05	0.13	0.032	0.07	7.3	15.0	0.56	617	2.00	0.01
ZZ57620		0.82	46.3	2.89	3.63	0.05	0.06	0.10	0.031	0.08	7.0	17.8	0.50	515	0.86	0.01

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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ57581	0.36	25.7	890	14.6	7.2	0.001	0.10	0.55	3.4	1.3	0.3	39.5	<0.01	0.03	0.9	
ZZ57582	0.40	35.6	940	17.4	6.7	0.001	0.05	0.92	4.9	1.2	0.4	41.5	<0.01	0.09	2.0	
ZZ57583	0.36	27.9	750	15.6	6.4	<0.001	0.08	0.76	4.1	0.6	0.4	38.2	<0.01	0.05	1.4	
ZZ57584	0.30	55.2	1130	14.1	8.3	0.015	0.13	1.16	4.2	15.2	0.5	76.6	<0.01	0.08	1.3	
ZZ57585	0.23	57.4	1180	12.4	11.4	0.046	0.28	1.11	3.1	12.0	0.3	101.0	<0.01	0.06	0.9	
ZZ57586	0.22	55.3	1170	11.5	12.8	0.028	0.17	1.15	3.3	7.6	0.4	72.6	<0.01	0.06	0.9	
ZZ57587	0.21	75.9	1140	11.2	9.1	0.031	0.22	1.39	2.7	10.6	0.3	100.0	<0.01	0.07	0.6	
ZZ57588	0.32	14.9	1110	9.0	4.0	0.001	0.16	0.55	0.9	1.5	0.2	57.8	<0.01	0.04	0.2	
ZZ57589	0.71	24.4	570	17.4	9.6	<0.001	0.03	0.58	3.7	0.6	0.6	22.4	<0.01	0.06	1.7	
ZZ57590	0.21	26.1	860	16.6	6.5	0.002	0.07	0.80	3.2	1.9	0.3	38.8	<0.01	0.09	0.8	
ZZ57591	0.27	25.5	920	8.0	5.3	0.008	0.16	0.85	1.4	5.0	0.2	60.8	<0.01	0.03	0.3	
ZZ57592	0.24	30.0	500	17.6	6.8	<0.001	0.04	1.04	4.3	2.2	0.5	36.0	<0.01	0.08	1.3	
ZZ57593	0.40	14.4	870	6.5	4.4	<0.001	0.13	0.53	1.2	2.3	0.2	56.7	<0.01	0.05	0.3	
ZZ57594	0.43	32.3	560	15.0	6.1	<0.001	0.06	0.99	4.0	2.0	0.5	31.8	<0.01	0.08	1.0	
ZZ57595	0.15	37.2	670	11.1	6.2	0.006	0.07	1.05	3.8	3.1	0.4	52.6	<0.01	0.07	1.0	
ZZ57596	0.20	35.9	900	13.7	7.8	0.012	0.08	1.06	4.1	4.5	0.4	87.4	<0.01	0.07	1.3	
ZZ57597	0.22	36.9	460	15.8	10.3	0.001	0.03	1.31	3.2	2.0	0.5	22.5	<0.01	0.10	2.7	
ZZ57598	0.20	41.7	410	14.6	12.2	<0.001	0.02	1.41	3.2	2.4	0.5	21.4	<0.01	0.09	2.2	
ZZ57599	0.13	19.4	550	10.9	8.1	0.003	0.07	0.90	1.4	2.3	0.5	49.7	<0.01	0.09	0.3	
ZZ57600	0.10	72.3	970	11.8	7.2	0.005	0.08	1.49	4.5	5.9	0.5	102.5	<0.01	0.11	0.9	
ZZ57601	0.11	76.7	540	12.7	10.7	0.001	0.04	1.28	2.9	4.9	0.5	34.7	<0.01	0.08	1.7	
ZZ57602	0.05	44.8	900	10.8	7.3	0.007	0.04	1.17	4.8	3.1	0.4	65.3	<0.01	0.10	1.6	
ZZ57603	0.32	40.3	590	9.7	6.9	0.009	0.11	1.54	3.6	4.1	0.3	101.5	<0.01	0.07	0.8	
ZZ57604	0.36	24.3	820	14.7	9.1	0.002	0.05	1.40	4.4	1.9	0.5	32.2	<0.01	0.09	2.3	
ZZ57605	0.38	12.8	870	9.5	6.9	0.002	0.12	0.88	2.9	1.9	0.4	34.0	<0.01	0.06	1.7	
ZZ57606	0.16	30.8	1010	4.0	1.9	0.002	0.26	3.00	1.6	7.8	<0.2	149.0	0.01	0.03	0.6	
ZZ57607	0.58	41.0	1300	17.0	10.5	0.001	0.04	1.42	5.4	1.7	0.7	39.3	<0.01	0.07	2.5	
ZZ57608	0.74	22.6	250	18.1	15.6	<0.001	0.01	0.76	3.4	0.9	0.7	7.7	<0.01	0.05	3.9	
ZZ57609	1.06	11.1	170	16.0	12.3	<0.001	0.01	0.43	2.4	<0.2	0.9	8.0	<0.01	0.04	3.7	
ZZ57610	0.40	33.7	510	13.8	11.5	<0.001	0.02	1.52	6.3	1.5	0.6	10.1	<0.01	0.08	3.7	
ZZ57611	0.76	17.2	420	13.0	10.9	<0.001	0.02	0.87	2.2	0.7	0.6	9.0	<0.01	0.02	2.6	
ZZ57612	0.27	63.1	1430	18.4	9.5	0.002	0.07	2.91	5.9	3.4	0.6	81.1	<0.01	0.08	2.6	
ZZ57613	0.35	34.4	900	16.3	8.9	<0.001	0.07	1.52	6.4	1.8	0.5	57.2	<0.01	0.10	3.0	
ZZ57614	0.32	47.1	760	16.5	9.1	<0.001	0.08	0.94	4.0	2.6	0.5	69.1	<0.01	0.06	0.9	
ZZ57615	0.23	39.2	400	23.3	8.8	0.001	0.04	1.19	6.1	0.7	0.5	38.3	<0.01	0.07	3.2	
ZZ57616	0.28	48.6	780	14.7	6.6	0.001	0.10	0.87	2.9	2.5	0.3	73.2	<0.01	0.03	0.6	
ZZ57617	0.59	30.8	810	13.9	7.5	0.002	0.08	0.60	4.5	1.7	0.4	54.1	<0.01	0.03	1.2	
ZZ57618	0.37	136.0	840	17.4	11.2	0.001	0.12	1.00	3.8	1.8	0.4	100.0	<0.01	0.03	0.8	
ZZ57619	0.38	32.1	890	16.3	10.0	<0.001	0.13	0.68	3.9	1.9	0.4	97.4	<0.01	0.04	0.6	
ZZ57620	0.29	23.3	790	14.6	8.7	<0.001	0.12	0.48	4.4	1.0	0.4	104.5	<0.01	0.07	0.9	

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57581		0.008	0.20	1.15	39	0.09	15.65	125	1.6
ZZ57582		0.010	0.20	1.07	42	0.12	13.95	130	1.8
ZZ57583		0.007	0.15	1.60	42	0.08	11.35	105	1.9
ZZ57584		<0.005	0.29	5.89	85	0.07	16.55	217	2.2
ZZ57585		<0.005	0.26	4.02	58	0.05	14.90	268	1.9
ZZ57586		<0.005	0.33	3.58	70	<0.05	18.35	284	1.6
ZZ57587		<0.005	0.27	9.18	71	0.05	17.20	299	1.5
ZZ57588		0.010	0.09	2.23	25	0.05	18.80	54	1.0
ZZ57589		0.020	0.13	1.06	56	0.24	16.15	84	0.7
ZZ57590		0.006	0.13	1.28	34	0.11	17.60	129	0.9
ZZ57591		0.007	0.12	3.86	28	0.09	16.80	93	1.5
ZZ57592		<0.005	0.20	1.43	72	0.10	18.00	151	0.9
ZZ57593		0.011	0.09	2.25	21	0.06	17.80	52	1.0
ZZ57594		0.008	0.11	1.54	56	0.15	24.2	108	1.2
ZZ57595		<0.005	0.14	3.70	43	0.05	17.70	139	1.2
ZZ57596		<0.005	0.16	3.69	54	0.06	16.15	125	1.4
ZZ57597		0.005	0.21	0.83	76	0.06	5.03	149	1.7
ZZ57598		<0.005	0.22	0.69	81	0.05	4.44	155	1.6
ZZ57599		0.008	0.17	1.25	36	0.06	4.09	84	<0.5
ZZ57600		<0.005	0.21	4.66	68	0.07	20.5	253	0.7
ZZ57601		<0.005	0.15	1.13	83	0.05	8.08	249	1.0
ZZ57602		<0.005	0.13	4.58	33	<0.05	14.45	163	1.2
ZZ57603		0.006	0.15	5.19	51	0.10	17.30	93	1.9
ZZ57604		0.007	0.17	1.20	73	0.13	6.40	100	1.0
ZZ57605		0.006	0.17	1.25	28	0.10	4.46	46	1.4
ZZ57606		0.006	0.09	0.98	12	<0.05	7.14	18	2.6
ZZ57607		0.011	0.22	3.30	109	0.17	14.80	219	1.1
ZZ57608		0.011	0.20	0.65	89	0.15	3.12	103	2.1
ZZ57609		0.023	0.18	0.52	73	0.21	2.52	55	1.8
ZZ57610		0.009	0.24	1.24	128	0.13	9.43	100	1.2
ZZ57611		0.016	0.22	0.97	84	0.23	7.86	69	0.5
ZZ57612		0.005	0.74	1.96	107	0.38	19.50	309	2.1
ZZ57613		0.007	0.29	1.23	63	0.09	12.90	152	2.3
ZZ57614		0.007	0.13	5.08	46	0.06	8.25	222	1.1
ZZ57615		0.006	0.14	0.80	73	0.16	5.40	134	2.1
ZZ57616		0.008	0.17	5.76	100	0.05	8.26	333	1.0
ZZ57617		0.018	0.13	9.00	49	0.17	9.84	198	0.9
ZZ57618		0.010	2.10	6.11	48	0.06	9.40	2110	1.3
ZZ57619		0.010	0.52	3.38	38	0.06	10.00	486	1.2
ZZ57620		0.006	0.12	1.28	27	<0.05	10.10	75	1.9



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57621		0.21	0.004	0.12	1.43	16.7	<0.2	10	140	0.89	0.25	1.34	0.31	21.1	17.3	22
ZZ57622		0.22	0.002	0.07	1.28	13.0	<0.2	10	230	1.05	0.22	1.56	0.30	20.6	23.7	19
ZZ57623		0.21	0.012	0.10	1.49	12.5	<0.2	10	180	1.09	0.26	1.65	0.26	21.6	13.6	22
ZZ57624		0.23	0.002	0.12	1.42	12.4	<0.2	<10	200	0.59	0.26	1.07	0.14	23.4	9.5	22
ZZ57625		0.24	0.006	0.13	1.85	13.0	<0.2	<10	170	0.96	0.26	1.00	0.31	29.1	14.8	27
ZZ57626		0.25	0.004	0.11	1.62	10.4	<0.2	<10	170	0.94	0.24	1.79	0.33	20.9	15.3	23
ZZ57627		0.21	0.002	0.12	1.34	12.5	<0.2	<10	150	0.71	0.20	2.14	0.29	19.15	12.2	20
ZZ57628		0.18	0.004	0.12	1.32	22.2	<0.2	10	180	0.96	0.22	2.22	0.27	23.4	12.1	21
ZZ57629		0.22	0.003	0.10	1.76	11.2	<0.2	<10	170	0.90	0.25	1.34	0.19	24.8	13.4	25
ZZ57630		0.23	0.003	0.12	1.88	12.4	<0.2	<10	170	1.00	0.27	1.42	0.20	21.9	13.7	25
ZZ57631		0.22	0.011	0.12	1.74	7.5	<0.2	<10	180	0.81	0.23	1.64	0.21	19.35	10.6	23
ZZ57632		0.22	0.003	0.11	1.33	27.6	<0.2	<10	120	0.71	0.22	0.60	0.18	22.6	13.3	22
ZZ57633		0.19	0.003	0.08	2.25	12.9	<0.2	<10	170	0.85	0.34	0.07	0.32	7.89	16.2	24
ZZ57634		0.23	0.004	0.07	2.18	11.9	<0.2	<10	100	0.94	0.30	0.37	0.16	39.2	23.1	31
ZZ57635		0.22	0.004	0.11	1.78	10.4	<0.2	<10	120	0.70	0.23	0.66	0.15	26.1	14.0	29
ZZ57636		0.24	0.003	0.14	2.40	7.7	<0.2	<10	220	0.95	0.26	0.88	0.42	30.8	22.0	39
ZZ57637		0.19	0.005	0.17	1.91	11.5	<0.2	<10	180	0.72	0.23	0.62	0.13	30.8	12.8	32
ZZ57638		0.21	0.002	0.08	2.30	14.9	<0.2	<10	160	0.74	0.32	0.10	0.17	24.4	15.4	33
ZZ57639		0.20	0.005	0.23	1.84	9.2	<0.2	<10	300	0.86	0.24	0.89	0.29	29.1	14.6	30
ZZ57640		0.22	0.003	0.12	2.12	6.0	<0.2	<10	160	0.67	0.23	0.64	0.18	31.1	14.6	34
ZZ57641		0.19	0.002	0.06	2.33	12.9	<0.2	<10	120	1.01	0.27	0.05	0.21	33.1	21.7	31
ZZ57642		0.20	0.003	0.10	1.87	10.9	<0.2	<10	150	0.85	0.28	0.54	0.24	34.4	17.2	28
ZZ57643		0.19	0.001	0.55	2.10	10.2	<0.2	<10	170	0.51	0.27	0.09	0.22	31.6	8.5	27
ZZ57644		0.16	0.003	0.16	1.98	12.7	<0.2	<10	140	0.58	0.30	0.12	0.17	28.1	12.8	30
ZZ57645		0.22	0.002	0.10	1.85	10.8	<0.2	<10	200	0.69	0.28	0.21	0.21	32.4	10.2	26
ZZ57646		0.19	0.003	0.11	2.29	10.9	<0.2	<10	180	0.86	0.24	0.26	0.12	30.5	16.1	31
ZZ57647		0.25	0.004	0.08	2.11	16.5	<0.2	<10	120	1.08	0.33	0.09	0.23	41.6	20.0	30
ZZ57648		0.19	0.001	0.04	0.97	6.8	<0.2	<10	210	0.39	0.32	0.75	0.22	26.6	4.3	15
ZZ57649		0.13	0.002	0.13	1.82	9.3	<0.2	<10	220	0.60	0.28	0.65	1.06	19.80	20.1	27
ZZ57650		0.16	0.001	0.15	1.60	11.4	<0.2	<10	150	0.45	0.26	0.08	0.94	22.6	10.6	23
ZZ57651		0.21	0.002	0.04	1.69	12.2	<0.2	<10	80	0.55	0.25	0.05	0.06	28.6	13.2	23
ZZ57652		0.21	0.002	0.03	1.57	15.0	<0.2	<10	60	0.51	0.28	0.03	0.15	20.1	14.0	23
ZZ57653		0.25	0.001	0.08	2.28	10.7	<0.2	<10	300	0.72	0.31	0.32	0.26	22.8	9.7	26
ZZ57654		0.20	0.011	0.15	1.89	33.9	<0.2	<10	140	1.34	0.36	0.48	0.39	39.8	21.8	27
ZZ57655		0.17	0.001	0.06	1.35	16.2	<0.2	<10	90	0.33	0.28	0.03	0.19	19.30	6.7	23
ZZ57656		0.17	0.002	0.07	1.59	102.0	<0.2	<10	170	0.68	0.27	0.37	0.74	24.3	9.4	24
ZZ57657		0.19	0.001	0.03	1.40	35.5	<0.2	<10	220	0.50	0.34	0.14	0.75	26.4	9.1	22
ZZ57658		0.09	0.005	0.12	0.84	66.0	<0.2	<10	420	0.47	0.16	3.01	0.20	8.90	8.9	12
ZZ57659		0.15	0.001	0.06	1.27	4.8	<0.2	<10	180	0.87	0.35	0.15	0.10	13.30	7.0	18
ZZ57660		0.20	0.001	0.05	1.77	7.7	<0.2	<10	90	1.48	0.60	0.01	0.18	18.50	17.0	25

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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57621		1.15	63.9	3.95	4.65	0.05	0.07	0.11	0.036	0.09	8.2	26.5	0.72	627	0.83	0.01
ZZ57622		0.86	43.3	3.99	3.91	0.05	0.07	0.08	0.040	0.12	8.2	22.1	0.55	1140	1.29	0.01
ZZ57623		1.02	47.4	3.48	4.50	<0.05	0.09	0.10	0.039	0.12	8.8	27.5	0.61	446	1.08	0.01
ZZ57624		1.37	26.7	2.76	5.56	<0.05	0.04	0.05	0.031	0.07	9.7	25.7	0.46	430	0.98	0.01
ZZ57625		1.11	58.5	3.74	5.86	0.06	0.08	0.13	0.035	0.10	13.0	39.0	0.82	402	0.77	0.01
ZZ57626		1.11	57.2	3.34	5.02	<0.05	0.11	0.10	0.032	0.11	8.7	36.5	0.73	825	0.44	0.01
ZZ57627		1.05	42.8	2.75	4.20	<0.05	0.08	0.09	0.030	0.08	7.8	26.8	0.61	692	0.50	0.01
ZZ57628		1.95	57.9	2.95	4.08	0.05	0.10	0.10	0.034	0.11	11.3	25.0	0.74	407	0.55	0.01
ZZ57629		1.16	54.3	3.50	5.33	0.05	0.12	0.08	0.034	0.11	10.5	34.8	0.80	496	0.54	0.01
ZZ57630		1.17	86.2	3.99	5.36	0.05	0.13	0.12	0.033	0.13	10.8	32.1	0.81	541	0.56	0.01
ZZ57631		0.96	53.1	3.17	5.04	<0.05	0.13	0.10	0.031	0.11	8.9	30.7	0.70	633	0.52	0.01
ZZ57632		1.00	35.5	3.55	4.30	0.05	0.06	0.13	0.030	0.06	9.4	25.5	0.59	488	0.70	0.01
ZZ57633		2.33	35.6	6.16	8.16	<0.05	0.05	0.04	0.054	0.07	2.6	30.1	0.43	580	1.22	0.01
ZZ57634		1.13	81.0	4.72	6.84	0.08	0.11	0.08	0.032	0.11	16.5	45.2	1.15	750	0.69	0.01
ZZ57635		0.94	60.0	3.93	5.68	0.05	0.07	0.06	0.039	0.06	10.7	31.2	0.94	329	0.60	0.01
ZZ57636		0.97	80.7	4.50	7.76	0.06	0.11	0.10	0.051	0.07	12.5	36.8	1.37	935	0.54	0.01
ZZ57637		0.89	39.8	3.31	6.18	0.05	0.07	0.07	0.037	0.05	12.1	30.5	0.89	201	0.51	0.01
ZZ57638		1.62	32.6	4.57	7.48	<0.05	0.05	0.01	0.049	0.05	10.4	36.1	0.60	410	1.58	0.01
ZZ57639		1.16	55.7	3.28	5.77	<0.05	0.04	0.08	0.034	0.06	13.3	25.3	0.65	779	0.78	0.01
ZZ57640		0.91	46.8	3.79	6.48	0.06	0.07	0.06	0.039	0.06	12.0	33.3	1.10	342	0.41	0.01
ZZ57641		1.16	65.1	4.45	5.98	<0.05	0.08	0.07	0.038	0.07	13.3	37.4	0.86	850	0.65	0.01
ZZ57642		1.08	63.3	4.12	5.51	0.06	0.11	0.10	0.035	0.10	14.6	35.9	0.87	683	0.50	0.01
ZZ57643		1.22	26.2	3.52	7.78	<0.05	0.06	0.01	0.034	0.04	14.5	30.9	0.41	263	1.08	0.01
ZZ57644		1.39	42.6	4.35	6.10	<0.05	0.07	0.02	0.039	0.08	11.4	31.6	0.67	437	0.81	0.02
ZZ57645		1.52	20.2	3.24	6.83	<0.05	0.06	0.01	0.033	0.05	12.9	26.3	0.43	323	1.21	0.01
ZZ57646		0.96	77.5	4.93	5.06	0.06	0.07	0.09	0.033	0.10	14.7	32.7	0.94	651	0.59	0.01
ZZ57647		2.12	55.1	4.69	5.33	0.06	0.05	0.06	0.042	0.06	15.7	41.9	0.70	744	0.94	<0.01
ZZ57648		1.35	14.3	1.87	6.60	<0.05	<0.02	0.03	0.020	0.04	13.4	10.3	0.18	130	1.22	<0.01
ZZ57649		1.88	40.9	3.72	7.00	0.09	0.03	0.09	0.033	0.06	8.5	24.3	0.42	2710	1.20	0.01
ZZ57650		1.20	23.6	3.32	6.27	0.09	<0.02	0.06	0.026	0.06	10.6	25.7	0.33	563	1.27	<0.01
ZZ57651		0.73	40.1	3.88	4.90	0.12	0.04	0.07	0.022	0.04	13.0	49.7	0.69	413	0.59	<0.01
ZZ57652		0.96	28.1	4.34	4.63	0.13	0.06	0.03	0.028	0.04	9.4	49.6	0.58	356	0.86	<0.01
ZZ57653		1.37	16.3	3.57	7.23	<0.05	0.02	0.03	0.037	0.03	10.5	35.0	0.35	530	1.00	0.01
ZZ57654		1.64	71.3	4.77	4.75	0.08	0.09	0.11	0.050	0.08	18.2	40.5	0.67	1070	1.19	<0.01
ZZ57655		2.29	14.5	3.75	5.54	<0.05	<0.02	0.04	0.025	0.07	9.1	12.0	0.27	392	2.11	<0.01
ZZ57656		1.58	14.5	3.62	5.67	<0.05	0.03	1.08	0.032	0.05	10.2	19.0	0.41	850	1.40	<0.01
ZZ57657		1.48	20.2	3.15	7.02	<0.05	0.02	0.11	0.035	0.05	12.6	16.9	0.22	383	2.11	0.01
ZZ57658		2.34	21.3	2.02	2.54	0.07	0.05	0.76	0.018	0.06	5.8	6.2	0.52	614	0.60	0.01
ZZ57659		1.84	22.5	2.48	4.97	<0.05	<0.02	0.05	0.024	0.15	6.3	21.1	0.28	135	0.53	<0.01
ZZ57660		2.26	35.6	4.22	6.15	<0.05	0.02	0.04	0.033	0.13	8.0	49.2	0.43	270	0.57	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57621		0.21	31.5	550	18.9	7.8	<0.001	0.05	0.48	7.4	1.1	0.4	55.7	<0.01	0.07	2.3
ZZ57622		0.26	32.1	730	17.0	9.2	0.003	0.13	0.49	5.7	1.1	0.5	118.0	<0.01	0.05	1.8
ZZ57623		0.26	27.3	740	17.2	9.8	<0.001	0.10	0.49	5.4	1.2	0.4	101.0	<0.01	0.03	1.5
ZZ57624		0.77	19.3	590	14.9	10.3	<0.001	0.05	0.49	3.4	0.6	0.6	59.7	<0.01	0.04	1.6
ZZ57625		0.35	33.4	720	15.4	8.8	<0.001	0.05	0.55	6.6	1.1	0.4	58.8	<0.01	0.04	2.8
ZZ57626		0.17	29.8	660	14.6	7.7	0.001	0.07	0.47	6.1	0.7	0.3	82.2	<0.01	0.07	2.5
ZZ57627		0.22	24.8	740	11.5	7.5	<0.001	0.09	0.46	4.6	0.9	0.3	93.1	<0.01	0.05	1.3
ZZ57628		0.22	27.1	790	14.2	8.4	<0.001	0.09	0.48	5.5	2.0	0.3	87.7	<0.01	0.06	1.4
ZZ57629		0.19	29.9	690	15.0	8.2	<0.001	0.07	0.48	5.8	0.9	0.3	61.2	<0.01	0.06	2.7
ZZ57630		0.13	32.4	670	15.6	8.3	<0.001	0.07	0.56	5.8	0.9	0.3	64.7	<0.01	0.07	1.9
ZZ57631		0.16	25.8	900	12.6	8.4	<0.001	0.10	0.43	4.4	1.2	0.3	73.6	<0.01	0.05	1.7
ZZ57632		0.28	28.1	440	12.0	6.9	<0.001	0.02	0.36	6.0	0.6	0.4	31.4	<0.01	0.06	3.1
ZZ57633		0.27	29.6	430	20.6	11.6	<0.001	0.03	0.55	6.3	0.9	0.8	4.3	<0.01	0.07	2.0
ZZ57634		0.12	38.2	510	19.5	6.4	<0.001	0.02	0.49	7.4	0.8	0.3	25.9	<0.01	0.06	5.6
ZZ57635		0.27	31.7	450	12.0	6.2	<0.001	0.03	0.38	8.8	0.6	0.3	32.2	<0.01	0.06	2.8
ZZ57636		0.48	40.5	830	14.7	8.6	<0.001	0.07	0.41	11.6	2.0	0.5	38.4	<0.01	0.08	3.1
ZZ57637		0.62	31.1	870	14.3	8.0	<0.001	0.05	0.37	6.5	1.1	0.5	30.7	<0.01	0.05	3.3
ZZ57638		1.09	28.5	440	17.7	11.5	<0.001	0.02	0.74	4.1	0.2	0.7	10.6	<0.01	0.09	3.6
ZZ57639		0.57	28.0	870	13.4	8.8	<0.001	0.04	0.55	6.3	0.8	0.5	50.0	<0.01	0.05	1.9
ZZ57640		0.40	32.4	680	13.6	7.7	<0.001	0.04	0.28	7.2	0.8	0.4	29.7	<0.01	0.04	3.6
ZZ57641		0.21	35.1	420	17.4	9.3	<0.001	0.02	0.53	5.3	0.4	0.4	7.6	<0.01	0.07	4.6
ZZ57642		0.16	34.9	790	17.1	7.0	<0.001	0.02	0.55	7.2	0.6	0.3	35.1	<0.01	0.05	5.7
ZZ57643		0.68	17.1	280	16.7	9.2	<0.001	0.01	0.38	4.1	0.3	0.7	9.5	<0.01	0.05	4.0
ZZ57644		0.49	26.2	620	17.2	10.9	<0.001	0.03	0.56	4.1	0.3	0.4	11.6	<0.01	0.05	3.7
ZZ57645		0.96	20.3	300	15.3	9.9	<0.001	0.01	0.52	3.5	0.3	0.7	14.3	<0.01	0.04	4.2
ZZ57646		0.10	29.8	430	18.5	5.9	<0.001	0.02	0.52	10.6	1.1	0.3	16.9	<0.01	0.09	4.1
ZZ57647		0.38	32.1	440	23.8	9.0	<0.001	0.02	0.72	6.3	0.8	0.4	10.5	<0.01	0.06	5.9
ZZ57648		1.19	9.8	290	14.7	7.2	<0.001	0.03	0.44	2.2	0.3	0.8	37.9	<0.01	0.08	1.9
ZZ57649		0.55	23.4	1390	17.4	13.0	<0.001	0.08	0.40	3.1	0.6	0.5	28.6	<0.01	0.07	0.7
ZZ57650		0.83	19.5	620	15.8	10.6	<0.001	0.03	0.50	1.9	0.5	0.5	8.2	<0.01	0.05	0.9
ZZ57651		0.22	31.2	370	16.4	5.1	<0.001	0.01	0.68	4.2	0.6	0.2	9.3	<0.01	0.04	4.5
ZZ57652		0.29	27.7	340	22.9	6.8	<0.001	0.01	0.83	2.8	0.5	0.2	7.0	<0.01	0.05	4.5
ZZ57653		0.90	16.6	420	16.6	7.7	<0.001	0.03	0.42	3.1	0.4	0.8	22.2	<0.01	0.06	2.6
ZZ57654		0.16	37.6	590	28.3	9.1	<0.001	0.04	0.80	13.2	1.9	0.4	37.4	<0.01	0.08	5.1
ZZ57655		0.72	14.2	420	16.1	12.7	<0.001	0.02	0.61	2.4	0.3	0.9	6.5	<0.01	0.06	2.1
ZZ57656		0.55	21.2	440	59.0	12.2	<0.001	0.02	4.20	3.9	0.2	0.7	12.1	<0.01	0.05	3.2
ZZ57657		0.95	20.1	350	23.7	12.4	<0.001	0.02	1.89	3.5	0.3	0.9	12.5	<0.01	0.08	2.7
ZZ57658		0.35	16.7	1110	23.7	6.7	<0.001	0.16	2.32	1.9	1.0	0.3	35.8	<0.01	0.04	0.4
ZZ57659		0.20	18.4	230	15.7	19.0	<0.001	0.02	0.24	2.6	<0.2	0.7	16.9	<0.01	0.04	3.0
ZZ57660		0.22	29.2	280	23.2	15.0	<0.001	0.02	0.29	3.5	0.5	0.7	9.9	<0.01	0.04	5.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57621		0.006	0.08	0.76	36	0.06	11.05	87	1.9
ZZ57622		<0.005	0.09	2.49	30	<0.05	10.70	80	2.5
ZZ57623		0.005	0.09	1.89	33	<0.05	11.00	84	2.3
ZZ57624		0.021	0.09	1.41	43	0.15	6.28	48	1.1
ZZ57625		0.009	0.07	4.87	42	0.08	11.90	87	2.3
ZZ57626		<0.005	0.06	1.16	34	<0.05	10.00	85	2.9
ZZ57627		0.006	0.05	1.19	29	<0.05	9.07	67	2.1
ZZ57628		0.006	0.06	2.55	29	<0.05	15.70	89	2.5
ZZ57629		0.005	0.06	1.99	35	<0.05	10.70	80	3.0
ZZ57630		<0.005	0.06	2.12	38	<0.05	12.90	79	2.9
ZZ57631		<0.005	0.05	2.86	33	<0.05	10.20	75	3.1
ZZ57632		0.010	0.17	0.73	34	0.05	7.54	69	1.6
ZZ57633		<0.005	0.12	0.28	70	0.05	5.41	58	1.3
ZZ57634		0.006	0.06	0.52	50	<0.05	9.68	84	3.7
ZZ57635		0.010	0.05	0.58	49	0.07	10.10	67	1.6
ZZ57636		0.015	0.06	3.01	70	0.07	14.45	118	2.5
ZZ57637		0.017	0.08	2.15	57	0.14	8.61	72	1.6
ZZ57638		0.023	0.12	0.57	67	0.24	3.77	66	1.7
ZZ57639		0.019	0.07	1.26	49	0.13	11.50	70	0.9
ZZ57640		0.013	0.05	1.29	58	0.09	9.20	69	1.8
ZZ57641		0.006	0.04	0.60	47	<0.05	4.83	63	2.2
ZZ57642		0.009	0.05	0.60	41	<0.05	10.90	85	3.9
ZZ57643		0.015	0.09	0.60	68	0.15	3.47	42	1.6
ZZ57644		0.012	0.08	0.63	52	0.10	4.21	68	1.7
ZZ57645		0.021	0.11	0.76	59	0.23	4.51	46	1.8
ZZ57646		<0.005	0.07	0.70	49	<0.05	16.65	76	3.0
ZZ57647		0.010	0.12	0.91	43	0.09	8.86	71	2.3
ZZ57648		0.033	0.12	0.48	58	0.26	3.21	29	0.5
ZZ57649		0.014	0.09	1.05	49	0.14	4.60	66	0.7
ZZ57650		0.017	0.10	0.55	47	0.19	2.86	72	<0.5
ZZ57651		0.006	0.05	0.59	24	0.05	8.29	74	1.2
ZZ57652		0.005	0.07	0.43	24	0.06	2.99	79	3.2
ZZ57653		0.017	0.16	0.46	62	0.17	2.67	66	1.0
ZZ57654		<0.005	0.16	1.87	39	0.05	25.9	91	3.4
ZZ57655		0.013	0.15	0.46	64	0.13	2.15	74	<0.5
ZZ57656		0.007	0.37	1.08	51	0.14	5.63	273	1.2
ZZ57657		0.013	0.25	0.75	64	0.20	3.81	142	0.8
ZZ57658		0.005	0.31	1.41	19	0.08	8.24	111	1.3
ZZ57659		<0.005	0.13	0.33	25	<0.05	3.33	68	0.6
ZZ57660		<0.005	0.12	0.56	23	<0.05	4.79	79	1.0



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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57661		0.20	0.003	0.21	1.71	18.3	<0.2	<10	370	1.03	0.32	0.55	0.41	28.7	14.5	27
ZZ57662		0.17	0.002	0.31	1.52	22.8	<0.2	<10	100	1.23	0.49	0.11	0.33	26.6	18.7	25
ZZ57663		0.20	0.003	0.42	1.69	21.7	<0.2	<10	570	1.20	0.32	1.22	0.35	22.5	12.2	25
ZZ57664		0.18	0.004	0.31	1.24	15.7	<0.2	<10	350	0.60	0.21	1.65	0.33	13.50	10.0	21
ZZ57665		0.19	0.005	0.39	1.43	18.0	<0.2	<10	570	0.82	0.25	1.55	0.55	15.45	9.9	23
ZZ57666		0.15	0.006	0.37	1.32	15.5	<0.2	<10	770	0.84	0.18	2.60	0.57	13.75	8.5	17
ZZ57667		0.19	0.003	0.13	1.11	12.6	<0.2	<10	340	0.79	0.26	0.93	0.39	14.15	11.5	19
ZZ57668		0.20	0.001	0.12	0.95	12.0	<0.2	<10	70	0.22	0.33	0.02	0.13	10.30	7.6	16
ZZ57669		0.22	0.002	0.09	1.42	22.8	<0.2	<10	90	0.49	0.40	0.03	0.23	14.55	15.9	25
ZZ57670		0.15	0.022	0.40	1.74	21.4	<0.2	<10	540	1.83	0.44	0.84	0.58	22.4	20.3	26
ZZ57671		0.16	0.006	0.34	1.60	27.5	<0.2	<10	160	1.88	0.58	0.10	0.17	15.05	13.1	26
ZZ57672		0.22	0.009	0.11	1.21	20.0	<0.2	<10	270	1.13	0.38	0.16	0.19	14.60	10.2	23
ZZ57673		0.15	0.008	0.27	2.26	17.0	<0.2	<10	580	3.63	0.19	2.42	1.46	37.1	11.2	16
ZZ57674		0.19	0.002	0.35	1.26	12.1	<0.2	<10	300	1.03	0.25	1.29	0.68	16.80	11.7	20
ZZ57675		0.16	0.004	0.45	1.10	10.4	<0.2	<10	220	0.68	0.20	1.45	0.88	18.30	12.2	18
ZZ57676		0.19	0.002	0.31	1.02	12.0	<0.2	<10	200	0.97	0.22	1.36	0.75	19.75	10.4	18
ZZ57677		0.21	0.003	0.60	0.96	15.7	<0.2	<10	400	1.12	0.25	1.36	1.61	15.05	10.6	17
ZZ57678		0.21	0.001	0.32	0.98	13.1	<0.2	<10	260	0.94	0.24	1.10	0.48	13.55	9.2	17
ZZ57679		0.17	0.003	0.55	0.83	7.9	<0.2	<10	270	1.08	0.23	2.07	0.72	11.55	7.3	13
ZZ57680		0.17	0.003	0.27	0.58	9.5	<0.2	<10	190	0.81	0.29	1.63	0.61	10.25	7.7	11
ZZ57681		0.19	0.002	0.28	0.84	14.5	<0.2	<10	170	0.82	0.31	0.60	0.71	15.15	13.6	18
ZZ57682		0.16	0.005	0.27	1.00	11.4	<0.2	<10	350	0.99	0.22	1.44	0.67	13.50	9.7	16
ZZ57683		0.16	0.002	0.17	1.00	11.8	<0.2	<10	280	0.90	0.20	1.09	0.21	19.35	12.0	21
ZZ57684		0.16	0.005	0.24	1.03	12.2	<0.2	<10	560	0.67	0.18	2.08	0.55	12.25	16.9	17
ZZ57685		0.21	0.003	0.22	1.54	12.5	<0.2	<10	940	1.12	0.23	0.80	0.63	24.1	11.7	27
ZZ57686		0.23	0.004	0.18	1.26	13.4	<0.2	<10	490	1.01	0.25	1.04	1.01	21.2	11.9	22
ZZ57687		0.20	0.004	0.22	1.16	16.8	<0.2	<10	480	0.83	0.23	1.41	0.75	17.45	13.2	21
ZZ57688		0.13	0.004	0.31	0.74	13.0	<0.2	<10	910	0.65	0.17	0.99	2.54	12.70	9.2	16
ZZ57689		0.16	0.004	0.25	1.01	13.1	<0.2	10	440	0.62	0.17	2.36	0.57	12.60	9.6	17
ZZ57690		0.20	0.005	0.30	1.11	19.4	<0.2	10	320	0.89	0.21	1.97	0.65	16.40	11.1	20
ZZ57691		0.15	0.003	0.11	1.22	11.8	<0.2	<10	160	0.41	0.24	0.08	0.89	17.65	5.8	23
ZZ57692		0.18	0.006	0.46	1.24	14.7	<0.2	10	570	0.81	0.19	2.48	0.86	17.05	10.1	22
ZZ57693		0.19	0.001	0.18	1.37	6.5	<0.2	<10	150	0.35	0.23	0.06	0.24	38.8	5.5	20
ZZ57694		0.17	0.003	0.08	1.16	8.1	<0.2	<10	140	0.30	0.15	0.09	0.20	43.0	7.6	25
ZZ57695		0.19	0.004	0.22	1.39	8.9	<0.2	<10	240	0.94	0.15	1.79	0.50	57.8	22.2	25
ZZ57696		0.18	0.010	0.33	1.49	7.1	<0.2	<10	420	1.04	0.10	2.77	0.28	71.4	19.1	17
ZZ57697		0.16	0.003	0.33	0.41	10.4	<0.2	<10	160	0.76	0.13	1.39	3.25	11.40	7.8	13
ZZ57698		0.20	0.006	0.44	0.56	14.0	<0.2	<10	250	0.55	0.23	1.11	0.74	10.10	6.0	14
ZZ57699		0.15	0.005	0.46	0.45	17.3	<0.2	<10	230	0.46	0.20	0.85	0.39	6.56	5.1	13
ZZ57700		0.24	0.004	0.46	0.59	15.3	<0.2	<10	310	0.59	0.23	0.48	0.40	11.05	5.6	16





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57661		1.41	32.3	3.42	5.66	0.06	0.04	0.17	0.036	0.10	13.1	31.1	0.43	475	1.78	<0.01
ZZ57662		2.92	47.7	3.57	6.01	0.07	0.06	0.10	0.038	0.08	12.7	37.4	0.53	308	1.83	<0.01
ZZ57663		1.48	44.0	3.63	5.26	<0.05	0.10	0.27	0.040	0.11	10.8	28.5	0.54	296	1.85	0.01
ZZ57664		1.70	30.9	2.79	3.98	0.10	0.07	0.18	0.026	0.12	6.5	18.9	0.53	421	1.20	0.01
ZZ57665		1.73	43.2	3.09	4.28	0.10	0.09	0.24	0.031	0.14	8.8	18.3	0.53	430	1.48	0.01
ZZ57666		1.21	41.3	2.49	3.54	0.09	0.07	0.49	0.028	0.09	8.1	11.1	0.36	423	1.42	0.01
ZZ57667		1.55	36.6	2.94	3.91	0.09	0.07	0.11	0.029	0.08	6.1	18.4	0.56	256	1.25	0.01
ZZ57668		1.85	45.4	3.22	6.67	0.08	<0.02	0.03	0.021	0.07	5.0	4.8	0.09	777	2.17	0.01
ZZ57669		1.81	24.8	3.97	6.25	0.10	0.02	0.08	0.030	0.07	6.6	15.8	0.34	945	4.22	0.01
ZZ57670		3.09	47.2	3.59	6.38	0.05	0.06	0.32	0.046	0.10	10.4	26.1	0.42	911	2.08	0.01
ZZ57671		3.71	40.8	3.47	7.12	<0.05	0.03	0.66	0.048	0.07	6.2	17.4	0.29	491	1.37	0.01
ZZ57672		3.04	37.3	3.56	4.77	0.11	0.04	0.08	0.033	0.09	6.3	13.8	0.26	979	1.73	<0.01
ZZ57673		3.46	68.3	2.54	3.03	0.20	0.17	0.24	0.030	0.06	19.6	16.6	0.31	2050	1.20	0.01
ZZ57674		1.57	44.9	2.98	3.91	0.11	0.08	0.20	0.030	0.08	8.5	20.2	0.42	640	1.67	0.01
ZZ57675		1.36	34.6	2.85	3.46	0.11	0.08	0.24	0.031	0.08	8.9	18.1	0.37	332	2.00	0.01
ZZ57676		1.30	36.0	2.77	3.21	<0.05	0.06	0.19	0.036	0.08	9.2	19.9	0.38	362	1.82	0.01
ZZ57677		1.20	38.6	2.72	3.02	<0.05	0.07	0.27	0.035	0.10	6.9	14.5	0.31	565	3.19	<0.01
ZZ57678		1.14	25.9	2.77	2.93	0.05	0.05	0.24	0.033	0.09	6.2	13.4	0.30	405	2.53	0.01
ZZ57679		1.60	30.4	2.07	2.25	0.05	0.06	0.28	0.028	0.10	6.1	9.7	0.27	320	1.85	0.01
ZZ57680		1.21	31.5	2.47	1.65	<0.05	0.07	0.39	0.035	0.07	5.1	6.3	0.19	398	2.66	0.01
ZZ57681		1.16	31.1	3.40	2.81	0.05	0.04	0.25	0.047	0.09	7.2	12.3	0.22	489	3.27	<0.01
ZZ57682		0.73	31.3	2.95	2.72	<0.05	0.05	0.23	0.034	0.09	6.4	11.7	0.29	702	1.63	0.01
ZZ57683		0.86	32.6	3.60	3.03	0.06	0.04	0.17	0.043	0.06	9.7	15.0	0.30	291	1.84	0.01
ZZ57684		0.83	23.1	3.15	2.88	<0.05	0.05	0.20	0.025	0.06	6.1	13.0	0.33	1760	1.36	0.01
ZZ57685		0.97	42.1	3.44	4.43	0.07	0.06	0.19	0.038	0.08	12.9	25.0	0.56	218	1.03	0.01
ZZ57686		0.79	28.2	3.36	3.76	0.06	0.06	0.41	0.041	0.08	10.5	26.1	0.43	274	1.15	0.01
ZZ57687		0.98	31.6	3.23	3.58	0.05	0.07	0.22	0.032	0.10	7.9	19.0	0.42	841	1.88	0.01
ZZ57688		0.95	28.3	2.29	2.24	0.05	0.05	0.19	0.026	0.07	6.3	11.9	0.27	291	5.24	0.01
ZZ57689		0.67	33.4	2.37	2.89	0.05	0.06	0.19	0.024	0.09	6.0	20.0	0.52	840	1.23	0.01
ZZ57690		0.87	44.8	2.96	3.34	0.05	0.06	0.19	0.035	0.11	7.8	21.3	0.78	394	2.63	0.01
ZZ57691		0.88	27.4	2.59	4.78	<0.05	0.02	0.12	0.028	0.10	8.9	12.7	0.23	180	2.26	0.01
ZZ57692		1.21	36.8	2.81	3.50	0.06	0.08	0.21	0.033	0.10	8.4	24.0	0.46	395	2.33	0.01
ZZ57693		0.90	13.7	2.46	7.43	0.05	0.02	0.05	0.026	0.09	21.8	11.9	0.15	213	2.52	0.01
ZZ57694		1.09	13.4	2.39	6.59	0.05	<0.02	0.03	0.024	0.07	19.6	14.2	0.24	1130	1.71	0.01
ZZ57695		2.21	32.5	3.87	4.44	0.09	0.04	0.06	0.040	0.11	23.7	32.9	0.51	625	1.51	0.01
ZZ57696		1.96	35.0	3.49	3.49	0.19	0.04	0.16	0.034	0.08	38.1	23.8	0.35	650	2.64	0.01
ZZ57697		0.59	27.8	2.01	1.43	<0.05	0.05	0.14	0.030	0.05	5.7	3.0	0.24	278	13.90	0.01
ZZ57698		1.12	29.8	1.80	1.80	<0.05	0.06	0.66	0.026	0.07	4.5	7.8	0.29	267	6.72	0.01
ZZ57699		1.07	21.2	1.46	1.59	<0.05	0.04	0.18	0.035	0.04	3.5	5.2	0.12	339	9.49	0.01
ZZ57700		0.95	30.1	2.01	1.99	<0.05	0.03	0.15	0.034	0.06	5.2	8.0	0.16	212	8.52	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ57661	0.05	0.55	29.4	660	25.5	11.7	<0.001	0.03	0.93	5.7	1.1	0.6	33.8	<0.01	0.07	3.1
ZZ57662		0.37	38.9	650	35.0	13.0	<0.001	0.02	0.79	5.3	0.9	0.6	21.8	<0.01	0.09	6.3
ZZ57663		0.36	33.6	630	24.6	10.2	<0.001	0.04	0.95	6.5	0.9	0.5	57.0	<0.01	0.09	3.6
ZZ57664		0.48	23.4	800	15.5	14.9	<0.001	0.10	0.61	4.3	1.2	0.4	176.0	<0.01	0.05	1.3
ZZ57665		0.52	26.1	860	17.4	15.0	<0.001	0.10	0.71	5.1	1.6	0.4	135.0	<0.01	0.06	1.5
ZZ57666		0.52	26.4	940	14.1	11.0	0.001	0.12	0.74	3.9	1.9	0.4	71.2	<0.01	0.06	0.9
ZZ57667		0.38	27.9	610	17.7	7.7	0.001	0.09	0.60	4.7	1.2	0.4	58.9	<0.01	0.03	2.9
ZZ57668		0.65	10.0	430	10.9	15.6	<0.001	0.03	0.50	2.1	0.4	0.7	5.1	<0.01	0.05	1.6
ZZ57669		0.51	22.6	490	22.9	10.9	<0.001	0.03	0.58	3.1	0.7	0.5	8.2	<0.01	0.05	2.4
ZZ57670		0.51	37.1	670	33.7	14.2	0.001	0.04	0.79	6.8	0.9	0.8	36.2	<0.01	0.05	3.7
ZZ57671		0.44	23.2	740	28.7	12.7	<0.001	0.05	0.39	5.1	0.8	0.9	12.2	<0.01	0.07	4.0
ZZ57672		0.53	20.3	600	20.8	11.7	<0.001	0.03	0.52	4.5	0.8	0.6	12.0	<0.01	0.08	3.2
ZZ57673		0.55	65.5	950	12.4	9.4	0.001	0.10	0.57	8.5	3.1	0.3	54.9	0.02	0.08	2.2
ZZ57674		0.47	30.2	900	17.2	10.5	0.004	0.11	0.79	5.2	2.3	0.4	53.2	<0.01	0.06	2.1
ZZ57675		0.39	28.8	940	14.6	9.8	0.004	0.15	0.91	4.7	2.2	0.4	59.1	<0.01	0.04	1.8
ZZ57676		0.38	27.5	740	15.6	9.7	0.003	0.07	0.88	4.2	1.8	0.4	57.6	<0.01	0.03	1.8
ZZ57677		0.41	31.8	640	17.6	8.7	0.004	0.05	1.70	4.6	1.4	0.4	50.9	<0.01	0.06	2.0
ZZ57678		0.36	24.0	570	16.0	8.7	0.002	0.05	0.82	3.8	1.3	0.7	39.5	<0.01	0.06	1.7
ZZ57679		0.30	22.9	650	12.8	9.6	0.002	0.09	0.93	3.3	1.5	0.5	61.2	<0.01	0.05	1.2
ZZ57680		0.16	25.2	710	16.4	6.7	0.004	0.07	0.68	4.1	1.5	0.5	48.1	<0.01	0.04	2.0
ZZ57681		0.25	30.8	530	18.8	8.2	0.001	0.02	0.95	5.2	1.1	0.6	29.6	<0.01	0.08	3.0
ZZ57682		0.25	29.8	940	13.3	8.5	0.001	0.09	0.59	3.9	1.6	0.5	44.0	<0.01	0.07	1.4
ZZ57683		0.28	31.9	730	14.4	6.2	0.001	0.05	0.43	6.3	1.3	0.5	30.9	<0.01	0.05	2.1
ZZ57684		0.36	25.2	950	10.6	7.3	0.007	0.16	0.52	3.0	1.5	0.4	48.4	<0.01	0.05	1.0
ZZ57685		0.60	33.0	810	14.5	8.5	0.002	0.05	0.47	6.3	3.2	0.6	31.6	<0.01	0.06	3.8
ZZ57686		0.52	26.8	720	18.4	7.3	0.005	0.09	0.23	6.3	5.0	0.6	35.9	<0.01	0.03	3.5
ZZ57687		0.38	32.1	740	15.7	8.5	0.001	0.06	0.75	4.3	2.0	0.5	45.2	<0.01	0.06	2.3
ZZ57688		0.21	40.1	1190	11.7	7.1	0.004	0.12	1.21	3.1	2.3	0.4	44.5	<0.01	0.05	1.3
ZZ57689		0.29	25.4	770	11.1	6.1	0.015	0.16	0.58	3.0	3.2	0.4	133.5	<0.01	0.05	1.0
ZZ57690		0.27	33.3	750	14.1	6.6	0.002	0.08	0.88	5.0	1.5	0.4	124.0	<0.01	0.08	1.8
ZZ57691		0.43	18.7	500	14.6	9.0	<0.001	0.04	0.56	2.8	0.6	0.6	10.0	<0.01	0.06	1.9
ZZ57692		0.32	31.7	570	13.1	8.1	0.001	0.10	0.89	4.9	1.4	0.5	105.0	<0.01	0.06	2.3
ZZ57693		0.66	10.3	460	11.1	10.2	<0.001	0.02	0.43	2.2	0.5	1.0	10.8	<0.01	0.04	2.6
ZZ57694		0.44	15.6	680	9.0	7.2	<0.001	0.03	0.27	2.6	0.3	0.8	10.4	<0.01	0.05	1.7
ZZ57695		0.34	49.6	1380	15.3	10.1	0.001	0.07	0.50	6.3	1.5	0.5	57.8	<0.01	0.02	2.5
ZZ57696		0.19	46.8	1400	10.2	7.3	0.001	0.14	0.45	6.0	2.1	0.4	123.0	<0.01	0.01	1.1
ZZ57697		0.17	48.8	860	8.9	4.2	0.005	0.09	2.58	3.5	1.5	0.7	54.0	<0.01	0.04	1.2
ZZ57698		0.16	28.6	550	14.6	6.3	0.007	0.05	1.37	4.2	1.6	0.6	54.8	<0.01	0.10	1.6
ZZ57699		0.09	18.6	400	13.0	5.1	0.006	0.05	1.31	4.2	1.7	0.6	61.0	<0.01	0.09	1.1
ZZ57700		0.10	24.3	490	13.6	5.0	0.003	0.03	1.56	4.7	1.4	0.6	53.1	<0.01	0.12	1.6



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**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57661		0.008	0.20	1.14	53	0.40	10.15	105	1.4
ZZ57662		0.006	0.20	0.79	36	0.05	8.58	116	2.3
ZZ57663		0.005	0.21	1.28	48	0.08	11.90	114	3.2
ZZ57664		0.007	0.14	1.22	37	0.09	10.10	116	2.0
ZZ57665		0.006	0.17	2.34	40	0.10	14.35	135	2.3
ZZ57666		0.005	0.19	3.25	32	0.11	14.20	91	1.8
ZZ57667		0.005	0.09	1.54	25	0.06	10.15	99	1.9
ZZ57668		0.009	0.12	0.38	46	0.12	1.92	53	<0.5
ZZ57669		0.006	0.14	0.56	42	0.08	4.08	86	0.7
ZZ57670		<0.005	0.22	1.28	44	0.11	15.10	124	1.8
ZZ57671		<0.005	0.13	1.80	32	0.08	6.66	70	0.8
ZZ57672		0.007	0.10	1.54	44	0.14	10.30	84	0.7
ZZ57673		0.009	0.12	3.66	24	0.15	74.0	178	2.8
ZZ57674		0.006	0.12	2.03	30	0.08	13.50	131	2.1
ZZ57675		0.005	0.13	2.08	28	0.08	11.05	101	2.0
ZZ57676		0.006	0.11	1.87	30	0.06	10.50	115	1.9
ZZ57677		0.006	0.19	1.98	36	0.07	10.10	174	2.1
ZZ57678		0.006	0.13	1.61	33	0.07	7.70	119	1.3
ZZ57679		0.005	0.14	1.89	25	0.06	9.74	109	1.7
ZZ57680		<0.005	0.17	1.62	23	<0.05	7.25	100	2.1
ZZ57681		0.005	0.14	0.90	35	0.06	6.50	145	1.3
ZZ57682		<0.005	0.13	0.95	33	0.06	9.14	112	1.5
ZZ57683		0.006	0.13	0.89	46	0.05	8.81	84	1.0
ZZ57684		0.007	0.13	1.42	34	0.07	7.17	93	1.2
ZZ57685		0.011	0.12	1.23	50	0.10	13.00	149	1.7
ZZ57686		0.006	0.11	1.25	39	0.06	11.55	156	2.0
ZZ57687		0.008	0.14	1.56	43	0.07	8.39	164	2.1
ZZ57688		0.006	0.40	1.70	55	0.07	8.99	266	1.4
ZZ57689		0.006	0.12	1.26	33	0.11	8.25	95	1.6
ZZ57690		0.005	0.21	1.78	42	0.05	11.65	117	2.1
ZZ57691		0.006	0.16	0.62	56	0.08	3.42	86	0.5
ZZ57692		0.005	0.22	0.65	42	0.09	10.15	128	2.3
ZZ57693		0.013	0.13	0.42	66	0.12	2.25	55	0.5
ZZ57694		0.013	0.10	0.29	59	0.12	4.00	61	<0.5
ZZ57695		0.009	0.12	0.35	38	0.05	12.35	116	1.6
ZZ57696		0.005	0.15	0.60	23	<0.05	30.3	71	1.3
ZZ57697		<0.005	0.26	2.34	190	0.12	12.55	251	2.1
ZZ57698		<0.005	0.48	0.94	60	0.10	9.49	123	2.1
ZZ57699		<0.005	0.79	0.54	60	0.08	5.61	53	1.4
ZZ57700		<0.005	0.50	0.71	63	0.06	7.66	83	1.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57701		0.19	0.008	0.38	0.35	9.6	<0.2	<10	170	0.38	0.17	0.58	0.25	4.18	4.0	10
ZZ57702		0.17	0.003	0.60	0.71	12.4	<0.2	<10	430	0.73	0.24	0.81	0.50	9.04	9.5	15
ZZ57703		0.24	0.003	0.34	1.11	18.5	<0.2	<10	420	0.93	0.21	1.21	0.97	17.45	11.6	21
ZZ57704		0.17	0.005	0.67	0.88	10.0	<0.2	<10	550	0.68	0.18	1.54	0.62	12.85	6.6	16
ZZ57705		0.24	0.004	0.54	0.92	19.8	<0.2	<10	470	0.89	0.24	0.69	0.94	15.15	9.3	19
ZZ57706		0.17	0.005	0.51	0.44	16.3	<0.2	<10	200	0.67	0.20	0.72	1.24	4.95	6.5	11
ZZ57707		0.20	0.005	0.60	0.28	32.2	<0.2	<10	370	0.42	0.22	0.65	0.49	4.15	4.4	15
ZZ57708		0.18	0.004	0.38	0.87	26.5	<0.2	<10	270	0.75	0.19	1.57	1.19	13.70	10.3	15
ZZ57709		0.19	0.009	0.59	1.24	48.7	<0.2	<10	660	0.96	0.25	3.47	1.35	18.10	17.3	24
ZZ57710		0.14	0.013	0.30	0.76	20.0	<0.2	20	210	0.68	0.16	2.70	2.47	7.00	9.2	13
ZZ57711		0.18	0.005	0.37	1.14	13.1	<0.2	<10	400	0.88	0.20	1.55	2.00	13.00	10.0	20
ZZ57712		0.20	0.002	0.32	1.09	13.4	<0.2	<10	250	0.80	0.18	1.41	0.84	15.70	10.1	20
ZZ57713		0.14	0.006	0.42	0.93	12.8	<0.2	<10	460	0.73	0.17	2.84	1.65	11.65	8.8	17
ZZ57714		0.15	0.008	0.53	0.96	12.8	<0.2	<10	600	0.59	0.15	2.74	1.34	10.20	9.0	17
ZZ57715		0.20	0.005	0.27	1.52	14.7	<0.2	<10	370	0.96	0.21	0.91	0.59	14.80	11.5	24
ZZ57716		0.17	0.005	0.47	1.54	23.6	<0.2	<10	510	0.94	0.22	1.77	1.19	17.75	12.2	27
ZZ57717		0.15	0.008	0.51	0.95	15.3	<0.2	<10	440	0.55	0.14	3.54	0.78	10.55	6.4	17
ZZ57718		0.18	0.005	0.38	1.17	30.0	<0.2	<10	300	0.95	0.19	3.20	1.09	16.85	10.0	23
ZZ57719		0.18	0.004	0.33	1.52	27.3	<0.2	<10	360	0.82	0.21	2.01	1.06	21.0	9.9	26
ZZ57720		0.16	0.004	0.31	0.87	24.3	<0.2	<10	280	0.54	0.13	3.47	1.57	11.45	6.4	18
ZZ57721		0.12	0.004	0.24	0.80	20.3	<0.2	<10	200	0.52	0.11	4.41	2.80	9.01	5.8	13
ZZ57722		0.12	0.009	0.24	0.68	37.4	<0.2	10	170	0.43	0.10	5.23	1.74	6.80	5.0	11
ZZ57723		0.20	0.004	0.40	1.34	25.2	<0.2	<10	250	0.74	0.19	2.18	1.01	17.50	10.6	23
ZZ57724		0.13	0.004	0.35	1.20	21.0	<0.2	<10	220	0.69	0.18	2.91	1.24	15.45	9.3	20
ZZ57725		0.21	0.003	0.26	1.70	26.9	<0.2	<10	480	0.95	0.23	1.49	1.16	23.2	12.5	28
ZZ57726		0.17	0.003	0.25	1.41	22.4	<0.2	<10	300	0.84	0.20	2.47	0.90	15.35	10.5	22
ZZ57727		0.17	0.004	0.27	1.46	29.9	<0.2	<10	320	0.97	0.23	1.91	0.77	16.95	13.2	24
ZZ57728		0.14	0.004	0.23	1.66	25.9	<0.2	<10	320	0.96	0.24	1.25	0.46	19.75	14.2	26

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57701		0.87	14.8	1.56	1.22	<0.05	0.02	0.12	0.026	0.04	2.1	3.5	0.10	100	7.90	<0.01
ZZ57702		0.99	27.4	2.47	2.14	<0.05	0.04	0.16	0.032	0.08	4.4	8.9	0.17	519	7.22	0.01
ZZ57703		0.94	42.2	3.00	3.24	0.05	0.06	0.19	0.036	0.09	8.3	16.2	0.36	574	4.46	0.01
ZZ57704		0.81	33.0	1.97	2.74	<0.05	0.04	0.21	0.029	0.08	6.1	11.5	0.24	306	2.31	0.01
ZZ57705		1.07	35.2	2.88	2.72	0.05	0.04	0.18	0.039	0.08	7.0	14.4	0.24	394	9.24	0.01
ZZ57706		0.80	36.4	1.74	1.38	<0.05	0.04	0.19	0.032	0.05	2.5	5.1	0.11	236	9.07	<0.01
ZZ57707		1.40	27.5	1.96	1.47	<0.05	0.04	0.20	0.039	0.07	2.3	3.6	0.07	151	13.85	0.01
ZZ57708		0.91	34.6	2.44	2.53	0.05	0.04	0.18	0.029	0.08	6.4	14.6	0.34	735	7.90	0.01
ZZ57709		1.99	60.9	3.96	3.88	0.06	0.05	0.24	0.039	0.13	8.6	23.2	0.72	481	9.04	0.01
ZZ57710		0.87	35.5	2.40	2.11	<0.05	0.06	0.18	0.028	0.08	3.4	14.8	0.47	446	9.90	0.01
ZZ57711		0.83	32.1	2.64	3.19	<0.05	0.05	0.17	0.031	0.08	6.0	20.1	0.37	568	2.19	0.01
ZZ57712		0.72	28.2	2.68	3.16	<0.05	0.05	0.16	0.029	0.08	7.1	22.5	0.40	373	2.10	0.01
ZZ57713		0.77	36.1	2.16	2.69	<0.05	0.05	0.18	0.026	0.07	5.8	13.7	0.37	656	1.66	0.01
ZZ57714		0.70	30.2	2.12	2.62	<0.05	0.05	0.20	0.024	0.06	5.2	11.5	0.38	626	1.88	0.01
ZZ57715		1.16	37.1	3.20	4.24	<0.05	0.06	0.20	0.035	0.09	6.5	30.6	0.51	334	1.51	0.01
ZZ57716		1.43	49.9	3.86	4.20	<0.05	0.08	0.30	0.035	0.11	9.5	23.4	0.47	671	1.90	0.01
ZZ57717		0.64	26.7	1.82	2.59	<0.05	0.06	0.22	0.022	0.06	7.0	9.4	0.25	365	1.74	0.01
ZZ57718		0.76	23.6	2.73	3.23	0.05	0.04	0.26	0.030	0.07	10.7	15.1	0.36	561	2.16	0.01
ZZ57719		0.88	23.0	2.84	4.16	<0.05	0.04	0.17	0.031	0.06	11.4	16.1	0.38	492	1.90	0.01
ZZ57720		0.76	20.4	1.56	2.48	<0.05	0.04	0.31	0.021	0.05	9.0	10.1	0.23	463	0.82	0.01
ZZ57721		0.81	20.3	1.51	2.03	<0.05	0.04	0.25	0.017	0.05	8.4	8.4	0.19	242	0.99	0.01
ZZ57722		0.54	20.7	1.26	1.99	<0.05	0.04	0.44	0.014	0.04	8.3	7.3	0.17	273	1.18	0.01
ZZ57723		0.93	34.5	2.78	3.77	0.05	0.06	0.22	0.027	0.08	12.3	20.5	0.45	435	2.76	0.01
ZZ57724		0.87	34.9	2.40	3.43	0.05	0.05	0.24	0.024	0.08	11.7	17.6	0.38	393	1.67	0.01
ZZ57725		0.89	44.4	3.30	4.98	0.06	0.08	0.24	0.033	0.09	13.1	27.9	0.66	129	1.82	0.01
ZZ57726		0.87	39.0	2.82	3.72	<0.05	0.06	0.24	0.026	0.09	9.9	19.1	0.45	571	1.63	0.01
ZZ57727		1.17	40.3	3.18	4.11	<0.05	0.08	0.29	0.029	0.10	9.3	21.0	0.45	563	1.89	0.01
ZZ57728		1.17	37.9	3.57	4.65	0.05	0.08	0.25	0.032	0.10	10.2	23.8	0.47	471	2.06	0.01

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ57701		0.08	21.3	380	11.2	4.5	0.001	0.04	1.21	2.9	0.7	0.5	36.3	<0.01	0.09	0.9
ZZ57702		0.13	29.6	620	14.5	7.5	0.002	0.06	1.12	4.4	1.4	0.6	52.6	<0.01	0.08	1.5
ZZ57703		0.25	38.2	800	15.8	7.3	0.001	0.05	0.96	5.3	1.5	0.5	51.4	<0.01	0.06	2.3
ZZ57704		0.31	25.5	650	13.3	7.5	0.002	0.08	1.03	3.5	2.2	0.5	53.6	<0.01	0.06	1.8
ZZ57705		0.20	40.5	750	16.7	7.5	0.002	0.04	1.25	5.2	2.2	0.6	48.8	<0.01	0.08	2.5
ZZ57706		0.07	22.9	450	11.1	5.8	0.012	0.09	1.54	2.6	4.0	0.5	66.2	<0.01	0.09	0.8
ZZ57707		<0.05	19.1	730	11.9	5.9	0.019	0.18	1.35	4.3	5.2	0.5	103.5	<0.01	0.11	1.0
ZZ57708		0.21	33.6	600	13.1	7.8	0.008	0.10	0.85	3.4	2.9	0.4	67.1	<0.01	0.08	1.2
ZZ57709		0.23	56.4	820	23.1	9.6	0.004	0.03	1.12	6.5	3.3	0.5	74.8	<0.01	0.08	3.8
ZZ57710		0.17	44.7	820	9.9	8.9	0.022	0.30	0.81	2.8	4.9	0.4	115.0	<0.01	0.05	1.0
ZZ57711		0.28	31.7	800	13.1	9.1	0.002	0.10	0.70	3.9	2.1	0.4	68.9	<0.01	0.07	1.6
ZZ57712		0.29	29.9	690	13.5	7.0	0.001	0.07	0.61	3.7	2.0	0.5	60.9	<0.01	0.05	1.5
ZZ57713		0.29	30.2	790	11.2	7.5	0.004	0.14	0.79	3.0	3.2	0.4	84.5	<0.01	0.05	0.8
ZZ57714		0.27	28.2	790	10.6	6.7	0.003	0.12	0.80	2.1	3.2	0.4	81.4	<0.01	0.06	0.5
ZZ57715		0.20	38.7	670	15.1	9.6	0.003	0.06	0.55	4.9	1.4	0.5	39.2	<0.01	0.06	2.1
ZZ57716		0.29	43.7	810	20.3	8.3	0.001	0.06	0.78	5.3	1.9	0.5	46.3	<0.01	0.06	2.0
ZZ57717		0.32	28.6	870	10.6	5.7	0.002	0.11	0.58	2.3	2.3	0.4	60.4	<0.01	0.05	0.7
ZZ57718		0.35	32.1	810	16.8	7.1	<0.001	0.07	0.78	3.4	1.7	0.5	36.2	<0.01	0.05	0.9
ZZ57719		0.57	27.9	600	16.2	7.3	0.001	0.06	0.64	3.4	1.1	0.6	29.0	<0.01	0.06	1.1
ZZ57720		0.34	22.3	700	21.8	6.9	0.005	0.12	0.43	1.9	1.7	0.4	40.6	<0.01	0.02	0.5
ZZ57721		0.27	29.1	880	11.6	5.3	0.001	0.13	0.40	1.5	1.7	0.4	42.4	<0.01	0.02	0.4
ZZ57722		0.21	27.9	1000	9.5	4.1	0.004	0.20	0.51	0.9	2.9	0.3	46.1	<0.01	0.05	0.2
ZZ57723		0.37	36.2	900	15.5	6.9	0.003	0.08	0.61	3.2	2.0	0.4	35.6	<0.01	0.07	1.1
ZZ57724		0.29	31.1	970	16.2	6.8	0.010	0.10	0.66	2.8	1.9	0.4	39.3	<0.01	0.04	0.9
ZZ57725		0.29	39.9	740	19.6	7.1	0.005	0.07	0.54	4.5	1.9	0.4	32.7	<0.01	0.06	2.0
ZZ57726		0.32	31.7	810	16.8	7.8	0.005	0.09	0.65	3.1	1.8	0.4	40.8	<0.01	0.05	1.3
ZZ57727		0.30	34.2	850	18.3	8.1	0.004	0.08	0.68	3.9	2.0	0.5	41.8	<0.01	0.06	1.6
ZZ57728		0.33	30.5	770	19.3	9.3	0.001	0.07	0.52	4.5	1.5	0.5	33.7	<0.01	0.07	1.9

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194353**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57701		<0.005	0.39	0.49	52	0.05	4.25	62	0.8
ZZ57702		<0.005	0.36	0.90	50	0.08	8.51	98	1.2
ZZ57703		0.005	0.26	1.07	56	0.08	13.60	144	1.7
ZZ57704		0.005	0.26	1.48	47	0.06	7.80	91	1.5
ZZ57705		<0.005	0.44	1.33	60	0.07	13.20	132	1.6
ZZ57706		<0.005	0.60	1.81	54	0.07	7.78	81	1.5
ZZ57707		<0.005	0.85	1.49	51	0.07	5.52	77	1.8
ZZ57708		<0.005	0.32	1.76	44	0.05	10.35	145	1.3
ZZ57709		0.006	0.42	1.07	55	0.06	14.10	197	2.7
ZZ57710		<0.005	0.63	4.64	27	0.05	8.42	159	2.1
ZZ57711		<0.005	0.18	1.69	48	0.08	10.00	111	1.5
ZZ57712		0.005	0.16	1.33	50	<0.05	9.92	118	1.3
ZZ57713		0.006	0.17	2.63	46	0.06	10.35	136	1.6
ZZ57714		0.006	0.17	2.99	46	0.06	9.89	157	1.3
ZZ57715		<0.005	0.15	1.28	43	<0.05	12.45	133	1.8
ZZ57716		0.005	0.33	2.06	60	0.07	17.90	161	2.4
ZZ57717		0.007	0.25	3.61	36	0.06	13.10	88	1.6
ZZ57718		0.006	0.33	0.94	54	0.12	29.2	128	1.0
ZZ57719		0.010	0.26	1.42	62	0.13	15.55	108	1.0
ZZ57720		0.008	0.24	1.89	38	0.09	18.40	161	1.1
ZZ57721		0.008	0.27	1.50	34	0.06	18.10	146	1.2
ZZ57722		0.006	0.28	3.04	40	0.05	18.60	98	1.3
ZZ57723		0.008	0.29	1.63	49	0.09	18.15	140	1.4
ZZ57724		0.007	0.22	2.10	41	0.07	20.0	118	1.6
ZZ57725		0.006	0.26	1.09	55	0.06	18.45	149	1.9
ZZ57726		0.006	0.22	2.43	38	0.07	17.00	126	1.9
ZZ57727		0.005	0.22	2.58	41	0.08	14.40	120	2.0
ZZ57728		0.005	0.19	1.75	46	0.08	14.90	107	2.1



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**CERTIFICATE OF ANALYSIS WH12194353**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12194354**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 237 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ50461		0.23	0.004	0.55	1.18	23.0	<0.2	<10	1230	0.70	0.23	6.85	5.72	23.1	23.3	35
ZZ50462		0.13	0.007	0.85	1.19	32.8	<0.2	10	1220	0.81	0.23	2.83	4.18	14.60	28.2	36
ZZ50463		0.14	0.003	0.12	1.58	20.2	<0.2	<10	880	0.74	0.29	0.88	0.72	25.1	12.3	31
ZZ50464		0.15	0.004	0.19	1.66	16.4	<0.2	<10	1140	0.90	0.33	1.18	1.22	26.5	11.1	31
ZZ50465		0.10	0.005	0.33	1.23	21.0	<0.2	<10	1130	0.87	0.26	2.01	1.40	14.05	12.6	26
ZZ50466		0.19	0.005	0.89	1.36	21.4	<0.2	<10	1920	0.80	0.26	2.00	1.93	21.1	11.6	28
ZZ50467		0.19	0.007	1.61	1.28	24.6	<0.2	<10	2740	0.84	0.29	1.27	1.68	15.00	11.9	27
ZZ50468		0.22	0.004	0.82	1.28	21.8	<0.2	<10	1760	0.85	0.28	0.97	1.76	18.00	11.6	27
ZZ50469		0.11	0.014	0.32	1.95	12.9	<0.2	<10	1680	1.56	0.44	0.44	0.27	17.15	11.2	29
ZZ50470		0.24	0.002	0.18	1.76	11.0	<0.2	<10	730	1.62	0.48	0.47	0.17	15.50	14.1	29
ZZ50471		0.21	0.002	0.06	1.49	13.2	<0.2	<10	340	0.89	0.45	0.28	0.31	18.10	13.2	26
ZZ50472		0.28	0.004	0.09	1.55	11.2	<0.2	<10	280	1.16	0.46	0.29	0.10	20.9	12.8	26
ZZ50473		0.15	0.007	0.03	1.85	17.0	<0.2	<10	90	1.14	0.63	0.02	0.11	10.70	12.8	27
ZZ50474		0.16	0.005	0.06	1.23	9.7	<0.2	<10	310	0.75	0.40	0.40	0.13	13.65	8.8	18
ZZ50475		0.21	0.003	0.11	1.34	21.5	<0.2	<10	130	1.53	0.61	0.15	0.19	13.95	19.5	23
ZZ50476		0.28	0.002	0.10	1.53	13.5	<0.2	<10	150	0.71	0.32	0.26	0.19	29.6	12.6	29
ZZ50477		0.22	0.008	0.88	1.26	15.4	<0.2	<10	400	1.16	0.34	0.54	0.40	14.50	9.2	24
ZZ50478		0.10	0.006	0.96	1.35	16.7	<0.2	<10	500	1.24	0.33	0.79	0.73	16.25	8.5	24
ZZ50479		0.24	0.004	0.54	0.77	17.0	<0.2	<10	280	0.82	0.26	0.61	1.65	13.05	14.8	19
ZZ50480		0.27	0.004	0.50	0.65	18.0	<0.2	<10	270	0.61	0.28	0.10	0.41	9.94	10.4	12
ZZ50481		0.17	0.003	0.22	0.93	16.8	<0.2	<10	110	0.41	0.29	0.14	0.30	13.55	6.8	18
ZZ50482		0.19	0.001	0.14	0.79	21.8	<0.2	<10	100	0.32	0.27	0.01	0.27	8.26	7.3	13
ZZ50483		0.19	0.002	0.07	0.87	13.3	<0.2	<10	100	0.21	0.23	0.03	0.15	20.5	4.1	12
ZZ50484		0.12	0.007	0.15	0.84	21.2	<0.2	<10	170	0.51	0.29	0.16	0.55	19.20	11.2	17
ZZ50485		0.17	0.002	0.10	0.86	9.4	<0.2	<10	100	0.20	0.31	0.03	0.12	29.5	2.5	14
ZZ50486		0.18	0.002	0.07	1.70	21.3	<0.2	<10	130	0.45	0.31	0.05	0.26	21.1	8.3	28
ZZ50487		0.19	0.002	0.03	1.80	23.1	<0.2	<10	120	1.14	0.40	0.17	0.40	15.60	20.7	27
ZZ50488		0.21	0.003	0.07	2.34	38.0	<0.2	<10	140	0.92	0.35	0.09	0.53	24.9	16.4	35
ZZ50489		0.16	0.003	0.08	1.49	18.8	<0.2	<10	100	0.40	0.30	0.05	0.23	19.85	7.9	28
ZZ50490		0.19	0.002	0.05	1.60	14.3	<0.2	<10	150	0.56	0.27	0.21	0.19	25.9	5.9	23
ZZ50491		0.17	0.002	0.24	2.14	54.8	<0.2	<10	220	0.69	0.29	0.85	0.88	37.0	8.4	39
ZZ50492		0.20	0.002	0.10	1.73	78.4	<0.2	<10	120	0.55	0.30	0.07	0.28	16.70	11.0	31
ZZ50493		0.09	0.009	0.43	1.39	904	<0.2	<10	460	0.64	0.26	0.85	1.00	18.35	8.7	32
ZZ50494		0.19	0.003	0.21	2.37	35.9	<0.2	<10	660	1.04	0.31	0.52	0.18	40.2	14.1	38
ZZ50495		0.23	0.011	0.31	2.10	101.0	<0.2	<10	540	0.90	0.29	0.55	0.55	30.3	13.6	37
ZZ50496		0.23	0.004	0.32	2.22	92.0	<0.2	<10	530	1.09	0.31	0.78	0.75	40.1	26.1	34
ZZ50497		0.23	0.005	0.47	1.55	36.4	<0.2	<10	970	1.14	0.29	0.82	0.42	20.2	14.6	27
ZZ50498		0.21	0.003	0.33	1.59	69.8	<0.2	<10	530	1.01	0.29	0.85	0.40	23.3	14.9	27
ZZ50499		0.13	0.002	0.34	1.55	33.5	<0.2	<10	360	0.83	0.26	0.64	0.34	24.7	17.8	27
ZZ50500		0.13	0.003	0.43	1.45	32.0	<0.2	<10	590	0.90	0.25	1.04	0.66	23.1	15.4	25



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ50461		0.81	35.6	3.56	3.38	0.06	0.06	0.16	0.030	0.07	16.6	10.5	0.37	868	10.15	0.02
ZZ50462		0.69	50.6	3.20	3.25	0.05	0.08	0.20	0.039	0.06	11.9	9.4	0.22	555	8.25	0.02
ZZ50463		1.52	21.1	3.24	5.17	<0.05	0.04	0.03	0.034	0.06	11.2	15.6	0.36	671	2.94	0.01
ZZ50464		1.50	21.6	3.02	5.43	<0.05	0.07	0.05	0.038	0.06	13.6	15.7	0.37	745	2.22	0.01
ZZ50465		0.64	30.5	3.39	3.51	<0.05	0.05	0.10	0.041	0.07	10.9	10.9	0.24	491	4.55	0.01
ZZ50466		0.55	30.3	3.22	3.93	<0.05	0.06	0.15	0.034	0.05	10.7	14.1	0.37	965	6.15	<0.01
ZZ50467		0.95	32.2	3.12	3.67	<0.05	0.08	0.20	0.038	0.06	10.4	10.9	0.26	316	14.30	<0.01
ZZ50468		0.97	36.4	3.06	3.80	<0.05	0.08	0.13	0.037	0.08	10.5	16.0	0.38	372	8.23	<0.01
ZZ50469		5.95	41.5	3.32	6.07	<0.05	0.13	0.07	0.043	0.11	8.5	21.3	0.42	727	1.86	<0.01
ZZ50470		4.40	40.9	3.65	6.15	<0.05	0.09	0.02	0.044	0.10	7.9	23.9	0.47	713	2.02	0.01
ZZ50471		2.36	23.2	3.58	6.23	<0.05	0.03	0.01	0.044	0.07	8.1	21.3	0.42	572	3.29	0.01
ZZ50472		2.68	34.4	3.49	5.32	<0.05	0.07	0.02	0.048	0.08	9.4	26.9	0.51	697	0.80	0.01
ZZ50473		1.88	56.7	5.13	6.11	<0.05	0.05	<0.01	0.060	0.06	4.7	24.7	0.36	505	0.78	0.01
ZZ50474		2.33	25.2	3.05	5.17	<0.05	0.03	0.34	0.036	0.10	6.7	20.2	0.26	436	0.93	0.01
ZZ50475		2.43	68.6	4.90	4.52	<0.05	0.03	<0.01	0.063	0.07	6.1	19.4	0.41	696	1.30	<0.01
ZZ50476		1.94	31.0	3.33	5.14	<0.05	0.04	<0.01	0.034	0.07	13.8	23.1	0.55	643	1.40	0.01
ZZ50477		2.46	40.1	3.21	3.90	<0.05	0.08	0.13	0.039	0.09	7.6	16.4	0.36	450	4.75	<0.01
ZZ50478		2.16	42.4	3.15	3.79	<0.05	0.10	0.18	0.044	0.09	8.3	15.9	0.26	356	4.66	0.01
ZZ50479		0.97	43.2	3.94	2.30	<0.05	0.06	0.14	0.043	0.09	5.5	11.3	0.18	304	5.43	<0.01
ZZ50480		1.19	41.8	2.28	2.25	<0.05	<0.02	0.11	0.036	0.07	4.5	6.9	0.13	287	6.57	<0.01
ZZ50481		1.51	30.2	2.72	3.97	<0.05	<0.02	0.02	0.036	0.07	6.5	7.9	0.22	186	4.18	<0.01
ZZ50482		1.12	32.9	3.01	3.47	<0.05	<0.02	0.01	0.036	0.07	3.9	4.5	0.09	160	4.70	<0.01
ZZ50483		1.45	19.4	1.69	5.29	<0.05	<0.02	<0.01	0.018	0.06	9.9	3.7	0.08	82	2.91	<0.01
ZZ50484		1.22	46.8	2.75	2.91	<0.05	<0.02	0.05	0.037	0.08	8.1	13.9	0.26	291	3.72	<0.01
ZZ50485		1.30	11.0	1.39	6.46	<0.05	<0.02	<0.01	0.018	0.06	14.8	4.1	0.09	90	1.89	<0.01
ZZ50486		1.32	25.3	4.18	6.73	<0.05	0.03	0.01	0.038	0.09	10.0	20.6	0.37	235	2.42	<0.01
ZZ50487		1.10	44.2	4.45	4.87	<0.05	0.02	0.03	0.045	0.06	6.0	39.9	0.64	520	4.47	<0.01
ZZ50488		1.89	47.6	5.06	6.10	<0.05	0.07	0.03	0.050	0.09	11.0	45.5	0.64	387	2.00	<0.01
ZZ50489		1.62	23.6	4.16	6.34	<0.05	<0.02	0.01	0.043	0.07	9.3	15.4	0.29	322	2.31	<0.01
ZZ50490		2.42	14.6	2.59	6.21	<0.05	0.02	0.04	0.030	0.05	12.6	17.8	0.21	119	1.68	<0.01
ZZ50491		1.74	12.2	2.65	6.00	0.06	0.03	0.34	0.033	0.05	22.8	16.4	0.32	317	1.11	0.01
ZZ50492		2.98	31.0	4.41	4.92	<0.05	0.05	0.27	0.046	0.06	7.8	27.5	0.42	252	2.58	<0.01
ZZ50493		6.43	22.5	2.63	4.83	<0.05	0.05	0.27	0.041	0.06	12.4	11.2	0.22	603	2.08	0.01
ZZ50494		1.87	28.0	3.51	6.50	0.05	0.04	0.11	0.035	0.07	18.8	18.0	0.62	524	1.53	0.01
ZZ50495		2.03	35.4	3.94	5.59	<0.05	0.05	0.20	0.047	0.08	12.9	27.7	0.49	757	1.78	0.01
ZZ50496		2.20	79.6	4.67	6.31	0.06	0.10	0.33	0.045	0.15	17.9	34.4	0.93	1360	1.78	0.01
ZZ50497		1.39	63.3	3.67	4.48	0.05	0.06	0.29	0.045	0.09	10.0	24.2	0.47	532	1.91	<0.01
ZZ50498		1.43	52.9	3.63	4.88	0.05	0.07	0.29	0.040	0.08	13.6	27.5	0.61	456	1.46	<0.01
ZZ50499		1.15	52.7	3.77	5.09	0.05	0.08	0.22	0.039	0.08	10.4	28.2	0.69	380	1.72	<0.01
ZZ50500		1.40	66.7	3.53	4.74	0.06	0.08	0.41	0.039	0.08	12.3	25.6	0.77	501	2.15	<0.01



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ50461		0.49	146.5	1900	15.2	6.7	0.001	0.06	2.53	3.9	3.0	0.5	52.7	<0.01	0.12	1.4
ZZ50462		0.48	149.5	2090	14.1	6.7	0.001	0.17	2.76	2.4	3.6	0.5	42.6	<0.01	0.12	0.6
ZZ50463		0.68	39.0	1090	17.2	12.9	<0.001	0.06	1.01	3.2	0.8	0.6	19.8	<0.01	0.08	1.5
ZZ50464		0.77	33.3	1420	16.9	12.8	<0.001	0.07	0.83	3.5	1.1	0.6	22.7	<0.01	0.06	1.5
ZZ50465		0.39	59.1	1510	17.1	7.1	<0.001	0.12	0.97	3.3	1.8	0.5	31.8	<0.01	0.09	0.8
ZZ50466		0.33	55.7	1420	14.3	5.6	0.002	0.12	1.56	2.6	2.6	0.4	33.9	<0.01	0.07	0.7
ZZ50467		0.33	63.8	1760	17.0	9.3	0.004	0.11	1.94	3.1	3.5	0.5	53.3	<0.01	0.09	0.9
ZZ50468		0.36	50.6	1620	17.4	10.5	0.003	0.10	1.59	3.6	2.3	0.5	56.9	<0.01	0.08	1.2
ZZ50469		0.39	26.0	1030	24.1	25.3	<0.001	0.05	0.49	5.7	1.4	0.7	36.1	<0.01	0.03	2.5
ZZ50470		0.33	28.7	610	27.7	17.9	0.002	0.03	0.43	5.6	1.1	0.6	32.0	<0.01	0.05	3.0
ZZ50471		0.50	23.7	490	25.0	11.9	<0.001	0.02	0.56	3.3	0.7	0.6	28.0	<0.01	0.03	2.1
ZZ50472		0.35	28.5	420	24.2	12.7	0.001	0.02	0.33	5.9	0.5	0.5	28.6	<0.01	0.02	4.0
ZZ50473		0.22	25.6	480	31.5	12.6	<0.001	0.02	0.33	5.3	0.2	0.6	8.4	<0.01	0.03	3.3
ZZ50474		0.28	16.3	390	15.5	17.4	<0.001	0.02	0.33	3.8	0.4	0.5	23.7	<0.01	0.03	2.7
ZZ50475		0.14	32.0	420	34.7	10.5	<0.001	0.01	0.63	5.9	1.1	0.5	23.0	<0.01	0.10	3.9
ZZ50476		0.77	27.7	660	20.4	10.6	<0.001	0.01	0.70	3.7	0.6	0.6	19.8	<0.01	0.03	3.9
ZZ50477		0.34	31.1	830	17.7	13.7	0.003	0.05	1.64	5.3	1.9	0.6	46.1	<0.01	0.09	1.9
ZZ50478		0.38	36.1	1070	18.4	12.6	0.007	0.08	1.46	4.6	4.3	0.6	45.6	<0.01	0.06	1.4
ZZ50479		0.11	50.8	830	16.4	8.4	0.006	0.04	1.61	4.9	3.5	0.4	40.6	<0.01	0.08	2.3
ZZ50480		0.11	30.4	510	18.9	8.9	0.002	0.03	1.79	2.8	1.7	0.4	20.4	<0.01	0.10	1.7
ZZ50481		0.32	24.8	710	16.4	12.6	0.001	0.03	1.22	1.7	1.3	0.5	16.5	<0.01	0.07	0.7
ZZ50482		0.22	30.6	580	16.1	12.6	0.001	0.02	1.86	2.3	1.6	0.4	10.3	<0.01	0.07	1.4
ZZ50483		0.50	15.2	260	10.7	14.7	<0.001	0.01	1.07	1.5	1.4	0.6	7.6	<0.01	0.04	1.7
ZZ50484		0.23	41.8	830	17.6	8.7	0.002	0.02	2.08	2.9	1.6	0.4	21.5	<0.01	0.05	2.8
ZZ50485		1.07	7.2	130	11.8	13.1	<0.001	0.01	0.63	1.4	0.7	0.9	7.0	<0.01	0.03	3.3
ZZ50486		1.18	27.3	460	19.0	14.1	<0.001	0.02	1.13	3.1	1.3	0.7	9.1	<0.01	0.07	2.7
ZZ50487		0.12	50.5	1070	26.3	9.9	0.001	0.01	0.85	5.2	1.1	0.5	9.3	<0.01	0.04	4.4
ZZ50488		0.28	49.1	610	26.1	15.2	0.001	0.01	1.05	4.7	1.3	0.5	12.7	<0.01	0.08	3.9
ZZ50489		1.21	26.6	620	19.7	14.6	<0.001	0.02	0.90	2.9	1.3	0.7	10.9	<0.01	0.04	2.0
ZZ50490		0.94	20.1	350	15.3	13.1	<0.001	0.02	0.54	2.7	0.6	0.8	14.5	<0.01	0.04	2.8
ZZ50491		1.12	24.9	910	17.1	9.6	<0.001	0.03	0.56	3.9	0.8	0.7	20.9	<0.01	0.03	3.0
ZZ50492		0.67	38.2	710	23.9	21.0	<0.001	0.03	1.00	3.8	0.9	0.5	14.0	<0.01	0.05	3.5
ZZ50493		0.65	46.5	1120	14.5	13.5	<0.001	0.06	0.63	3.4	1.0	0.6	37.6	<0.01	0.03	1.4
ZZ50494		0.84	32.8	960	19.5	11.1	<0.001	0.03	0.92	4.7	1.9	0.6	32.0	<0.01	0.05	2.3
ZZ50495		0.61	34.7	1160	21.0	14.3	<0.001	0.04	0.85	5.0	1.1	0.6	30.0	<0.01	0.06	2.2
ZZ50496		0.17	52.3	1010	24.5	10.1	0.001	0.02	0.78	7.7	2.2	0.4	42.2	<0.01	0.08	4.0
ZZ50497		0.33	41.7	680	18.2	9.6	<0.001	0.02	0.99	7.9	1.4	0.5	30.5	<0.01	0.07	3.5
ZZ50498		0.32	42.9	500	16.0	9.1	<0.001	0.03	0.79	6.5	1.5	0.5	30.8	<0.01	0.07	3.2
ZZ50499		0.27	38.0	690	17.2	7.5	0.001	0.02	0.88	6.8	1.3	0.5	30.6	<0.01	0.08	3.5
ZZ50500		0.32	42.3	610	20.2	7.6	0.001	0.02	1.09	7.3	1.3	0.6	34.7	<0.01	0.07	3.2



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ50461		0.018	0.38	5.10	97	0.22	36.2	799	1.6
ZZ50462		0.008	0.40	11.75	102	0.13	34.5	664	2.2
ZZ50463		0.016	0.23	1.73	70	0.20	11.00	155	1.4
ZZ50464		0.016	0.20	2.28	66	0.26	14.45	141	1.5
ZZ50465		0.006	0.17	4.54	65	0.10	29.8	376	1.4
ZZ50466		0.006	0.23	5.87	85	0.09	23.0	310	1.5
ZZ50467		0.006	0.40	6.08	97	0.15	25.3	408	2.1
ZZ50468		0.009	0.33	3.39	79	0.12	19.15	271	2.1
ZZ50469		<0.005	0.23	1.60	45	0.11	18.05	97	3.0
ZZ50470		<0.005	0.11	2.09	34	0.08	14.75	100	2.4
ZZ50471		0.009	0.12	1.37	43	0.11	5.54	94	0.8
ZZ50472		0.007	0.09	1.11	31	0.07	8.78	92	1.7
ZZ50473		<0.005	0.11	0.66	28	<0.05	4.31	111	1.4
ZZ50474		<0.005	0.10	0.74	31	0.06	4.75	66	0.9
ZZ50475		<0.005	0.11	1.29	26	<0.05	7.65	139	1.3
ZZ50476		0.019	0.13	0.84	45	0.22	5.98	91	0.9
ZZ50477		0.006	0.56	2.54	72	0.11	11.05	122	2.1
ZZ50478		0.005	0.53	2.09	65	0.11	12.70	118	2.2
ZZ50479		<0.005	0.31	1.28	51	<0.05	15.45	221	1.6
ZZ50480		<0.005	0.39	0.84	43	0.05	6.25	140	0.5
ZZ50481		0.007	0.27	0.67	50	0.11	3.36	111	<0.5
ZZ50482		<0.005	0.26	0.39	58	0.05	2.55	184	<0.5
ZZ50483		0.010	0.21	0.35	62	0.11	1.98	87	<0.5
ZZ50484		0.006	0.20	0.90	44	0.07	7.05	212	0.5
ZZ50485		0.027	0.19	0.53	63	0.21	2.35	42	0.5
ZZ50486		0.018	0.20	0.56	72	0.21	3.42	119	1.1
ZZ50487		<0.005	0.18	0.82	34	<0.05	12.30	133	1.1
ZZ50488		<0.005	0.25	0.64	62	0.06	5.57	150	2.2
ZZ50489		0.020	0.17	0.69	62	0.21	3.56	83	<0.5
ZZ50490		0.016	0.20	0.70	53	0.23	4.58	57	0.5
ZZ50491		0.024	0.23	1.50	63	0.24	25.7	93	1.1
ZZ50492		0.008	0.33	0.75	53	0.16	4.27	119	1.8
ZZ50493		0.012	0.38	1.79	55	0.34	21.1	174	1.1
ZZ50494		0.025	0.24	2.36	69	0.27	14.15	102	1.1
ZZ50495		0.011	0.30	1.57	64	0.20	14.05	141	1.3
ZZ50496		0.006	0.38	1.15	59	0.10	16.30	150	2.8
ZZ50497		0.006	0.21	0.98	50	0.13	16.85	130	1.9
ZZ50498		0.006	0.16	0.90	45	0.16	16.80	116	2.0
ZZ50499		0.007	0.14	0.79	50	0.07	11.05	116	2.5
ZZ50500		0.008	0.17	0.81	50	0.07	15.95	131	2.6



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53141		0.15	0.004	0.15	1.64	14.8	<0.2	<10	560	0.74	0.33	0.59	0.16	23.4	9.2	29
ZZ53142		0.26	<0.001	0.08	1.84	25.0	<0.2	<10	70	0.68	0.44	0.02	0.34	17.15	11.0	31
ZZ53143		0.20	<0.001	0.08	2.00	16.7	<0.2	<10	210	1.51	0.38	0.03	0.33	24.3	19.3	29
ZZ53144		0.35	<0.001	0.10	2.40	12.5	<0.2	<10	160	1.26	0.52	0.11	0.12	16.10	11.8	33
ZZ53145		0.26	0.001	0.06	1.73	21.3	<0.2	<10	90	0.84	0.37	0.02	0.22	13.65	14.7	27
ZZ53146		0.24	0.003	0.16	1.16	195.5	<0.2	<10	340	1.33	0.42	1.61	0.73	15.55	13.0	17
ZZ53147		0.23	<0.001	0.08	1.41	12.2	<0.2	<10	90	0.61	0.41	0.02	0.15	10.50	15.1	30
ZZ53148		0.23	<0.001	0.41	1.49	20.1	<0.2	<10	180	1.03	0.38	0.02	0.11	13.90	18.8	25
ZZ53149		0.31	0.003	0.12	1.84	14.7	<0.2	<10	150	0.76	0.32	0.11	0.30	34.0	12.4	32
ZZ53150		0.63	<0.001	0.22	1.68	31.1	<0.2	<10	360	1.16	0.41	0.34	0.26	15.70	12.1	31
ZZ53151		0.22	0.001	0.07	1.35	11.4	<0.2	<10	280	1.33	0.56	0.26	0.19	7.02	25.3	28
ZZ53152		0.26	<0.001	0.05	1.48	11.6	<0.2	<10	80	0.25	0.37	0.05	0.13	25.1	6.8	28
ZZ53153		0.27	0.001	0.06	1.35	12.9	<0.2	<10	100	0.65	0.35	0.01	0.28	17.30	16.2	21
ZZ53154		0.18	<0.001	0.09	1.37	14.4	<0.2	<10	100	0.39	0.31	0.03	0.23	26.2	9.4	23
ZZ53155		0.22	0.001	0.12	1.13	9.3	<0.2	<10	150	0.69	0.30	0.09	0.38	21.8	6.1	20
ZZ53156		0.28	<0.001	0.10	1.94	15.1	<0.2	<10	290	0.71	0.28	0.08	0.57	28.6	9.5	31
ZZ53157		0.23	<0.001	0.07	1.49	18.6	<0.2	<10	120	0.52	0.28	0.05	0.42	26.9	11.8	30
ZZ53158		0.20	0.001	0.09	1.83	19.7	<0.2	<10	150	0.89	0.25	0.05	0.82	43.7	19.9	34
ZZ53159		0.26	<0.001	0.10	1.85	13.0	<0.2	<10	150	0.58	0.24	0.05	0.38	37.8	10.2	30
ZZ53160		0.24	0.001	0.09	1.95	18.4	<0.2	<10	140	0.81	0.25	0.10	0.47	47.4	16.8	28
ZZ53161		0.26	0.001	0.18	1.79	16.9	<0.2	<10	250	1.19	0.23	0.24	0.39	92.9	30.2	29
ZZ53162		0.27	0.002	0.12	1.63	10.0	<0.2	<10	140	0.47	0.27	0.08	0.11	28.5	5.9	25
ZZ53163		0.21	<0.001	0.12	1.55	19.2	<0.2	<10	150	0.54	0.34	0.07	0.42	28.4	12.2	31
ZZ53164		0.29	0.001	0.11	1.85	15.7	<0.2	<10	270	0.74	0.22	0.18	0.26	50.4	23.0	23
ZZ53165		0.15	0.001	0.10	1.11	17.7	<0.2	<10	110	0.30	0.25	0.04	0.21	19.75	7.4	22
ZZ53166		0.26	0.002	0.39	1.23	15.7	<0.2	<10	400	0.94	0.23	0.87	0.60	42.8	13.3	21
ZZ53167		0.23	0.003	0.48	1.28	9.5	<0.2	<10	370	0.61	0.21	1.21	0.83	30.4	8.8	24
ZZ53168		0.36	0.005	0.45	1.21	20.6	<0.2	<10	880	0.85	0.24	0.85	1.25	24.6	11.7	23
ZZ53169		0.21	0.005	0.82	0.75	20.5	<0.2	<10	1040	0.66	0.23	0.77	5.25	17.25	8.0	18
ZZ53170		0.16	0.001	0.25	1.68	15.4	<0.2	<10	2260	0.87	0.30	0.57	2.18	32.2	11.3	27
ZZ53171		0.17	<0.001	0.17	1.42	21.3	<0.2	<10	1660	0.46	0.30	0.27	0.67	18.75	5.9	24
ZZ53172		0.17	0.001	0.11	1.45	12.9	<0.2	<10	350	0.38	0.28	0.11	1.17	19.45	7.0	26
ZZ53173		0.20	0.002	0.20	1.31	11.9	<0.2	<10	620	0.49	0.23	0.43	2.01	20.3	9.0	26
ZZ53174		0.22	0.001	1.30	0.84	18.3	<0.2	<10	1030	0.64	0.20	1.27	4.75	19.05	9.4	39
ZZ53175		0.27	<0.001	1.62	1.10	30.2	<0.2	<10	1170	0.80	0.23	1.67	1.63	18.30	9.0	30
ZZ53176		0.10	<0.001	0.37	1.19	22.8	<0.2	<10	450	0.67	0.26	2.33	4.61	21.9	15.3	30
ZZ53177		0.11	0.001	0.26	1.28	15.4	<0.2	<10	460	0.64	0.23	2.76	2.44	16.85	7.8	36
ZZ53178		0.13	0.002	0.23	2.06	19.0	<0.2	<10	910	1.02	0.27	1.09	4.38	25.0	15.8	31
ZZ53179		0.12	0.003	0.46	1.22	17.2	<0.2	<10	540	0.73	0.19	3.14	4.85	12.75	11.0	21
ZZ53180		0.15	0.001	0.18	1.38	41.2	<0.2	<10	290	0.64	0.21	1.24	3.16	17.75	31.3	29



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53141		1.69	17.4	3.02	6.06	<0.05	0.05	0.07	0.032	0.06	10.4	28.6	0.50	447	1.75	<0.01
ZZ53142		1.84	32.5	5.34	6.56	<0.05	0.06	0.08	0.039	0.06	7.5	22.2	0.37	407	1.96	<0.01
ZZ53143		2.10	36.1	3.99	5.68	<0.05	0.06	0.06	0.041	0.06	9.9	30.5	0.50	679	1.76	<0.01
ZZ53144		2.87	27.6	4.43	9.02	0.05	0.07	0.06	0.052	0.06	7.3	31.5	0.59	211	0.68	<0.01
ZZ53145		3.41	27.8	4.09	5.05	<0.05	0.04	0.05	0.040	0.06	5.4	30.4	0.47	741	1.41	<0.01
ZZ53146		3.60	32.6	3.21	3.97	<0.05	0.09	5.73	0.035	0.08	6.9	15.9	0.87	680	0.62	0.01
ZZ53147		4.20	27.1	4.11	4.64	<0.05	0.02	0.03	0.034	0.05	4.8	27.9	0.42	879	1.29	<0.01
ZZ53148		3.33	30.3	3.71	3.62	<0.05	0.04	0.02	0.030	0.05	5.2	30.4	0.47	1200	1.38	<0.01
ZZ53149		2.04	21.3	3.11	5.90	<0.05	<0.02	0.03	0.034	0.06	15.3	19.3	0.53	523	1.72	0.01
ZZ53150		4.34	29.2	3.38	5.74	<0.05	0.12	0.06	0.034	0.07	8.8	33.6	0.57	430	1.00	0.01
ZZ53151		4.93	29.0	4.09	5.98	<0.05	0.03	0.03	0.028	0.08	3.4	21.5	0.36	3160	1.63	<0.01
ZZ53152		2.92	12.9	2.88	7.53	<0.05	<0.02	0.03	0.029	0.07	12.0	11.3	0.32	456	2.36	<0.01
ZZ53153		2.90	29.0	4.07	3.81	<0.05	0.03	0.04	0.036	0.07	7.0	14.1	0.25	529	2.15	<0.01
ZZ53154		2.05	20.5	3.69	6.57	<0.05	<0.02	0.05	0.033	0.07	12.8	9.4	0.23	493	3.32	<0.01
ZZ53155		2.30	17.5	2.14	4.31	<0.05	<0.02	0.03	0.027	0.07	10.2	10.4	0.23	302	1.98	0.01
ZZ53156		1.82	16.4	3.52	6.58	<0.05	0.02	0.03	0.041	0.06	13.8	28.1	0.42	455	2.31	<0.01
ZZ53157		1.64	23.5	4.00	6.06	<0.05	<0.02	0.04	0.038	0.06	12.2	18.1	0.37	542	3.79	<0.01
ZZ53158		1.96	41.9	4.71	5.28	0.06	0.06	0.06	0.049	0.07	17.6	30.0	0.48	571	4.55	<0.01
ZZ53159		1.78	28.5	4.30	6.45	0.05	0.03	0.06	0.042	0.06	17.8	15.1	0.33	383	3.91	<0.01
ZZ53160		1.50	32.3	4.80	6.03	0.06	0.03	0.05	0.047	0.07	22.6	25.7	0.49	478	3.46	<0.01
ZZ53161		2.10	55.5	6.25	5.55	0.10	0.06	0.05	0.059	0.09	42.4	29.6	0.63	930	3.54	<0.01
ZZ53162		1.75	13.1	2.57	6.20	<0.05	<0.02	0.04	0.032	0.05	13.0	15.7	0.29	215	1.62	<0.01
ZZ53163		2.21	22.6	3.83	6.13	<0.05	0.02	0.03	0.039	0.08	12.2	19.9	0.41	980	2.88	<0.01
ZZ53164		2.18	52.0	5.14	6.14	0.05	0.05	0.06	0.051	0.10	24.2	22.1	0.43	591	2.64	<0.01
ZZ53165		1.50	23.3	2.96	4.83	<0.05	<0.02	0.07	0.026	0.06	8.1	11.1	0.25	328	2.65	<0.01
ZZ53166		1.13	37.8	4.00	3.82	0.06	0.08	0.15	0.040	0.08	21.5	15.2	0.30	552	4.21	<0.01
ZZ53167		0.82	28.7	2.69	3.94	0.05	0.07	0.16	0.030	0.07	16.0	19.6	0.42	249	3.19	0.01
ZZ53168		1.15	42.6	3.00	3.91	<0.05	0.08	0.24	0.031	0.07	11.2	17.6	0.42	619	5.20	0.01
ZZ53169		1.55	43.7	2.11	2.60	0.05	0.04	0.40	0.045	0.09	8.5	8.1	0.20	271	12.60	<0.01
ZZ53170		1.75	21.8	2.87	5.89	0.05	0.02	0.02	0.043	0.06	15.1	13.2	0.26	608	6.99	0.01
ZZ53171		1.74	14.1	2.34	5.89	<0.05	<0.02	0.03	0.028	0.06	8.9	12.6	0.21	251	9.90	0.01
ZZ53172		1.74	17.3	2.78	6.25	<0.05	<0.02	0.01	0.026	0.06	9.1	11.4	0.24	400	6.83	<0.01
ZZ53173		1.12	16.9	2.47	4.82	<0.05	<0.02	0.08	0.029	0.05	8.9	12.2	0.33	447	3.11	0.01
ZZ53174		0.61	31.8	2.28	2.47	0.06	0.05	0.14	0.034	0.05	17.9	6.5	0.19	330	17.90	0.01
ZZ53175		0.60	32.3	2.62	3.26	0.06	0.07	0.19	0.044	0.05	20.1	6.9	0.17	407	37.7	0.01
ZZ53176		0.55	25.4	2.51	3.33	0.05	0.04	0.13	0.038	0.07	16.7	7.4	0.25	1220	50.8	0.01
ZZ53177		0.61	23.0	2.45	3.62	<0.05	0.03	0.11	0.035	0.04	13.0	9.5	0.26	533	3.42	0.01
ZZ53178		1.69	33.5	3.63	5.62	0.05	0.04	0.11	0.041	0.06	13.5	17.6	0.35	642	6.73	0.01
ZZ53179		1.02	29.0	2.39	3.51	<0.05	0.03	0.20	0.032	0.05	9.9	8.7	0.21	543	7.92	0.01
ZZ53180		0.88	41.0	2.91	4.00	<0.05	0.04	0.21	0.033	0.05	8.9	10.5	0.27	663	12.60	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ53141		0.78	22.5	1080	15.7	13.8	<0.001	0.05	0.74	2.5	0.7	0.7	20.8	0.01	0.03	1.4
ZZ53142		0.48	23.6	600	25.9	11.7	<0.001	0.02	0.76	3.4	0.7	0.6	6.2	<0.01	0.04	3.0
ZZ53143		0.35	34.9	370	23.5	12.0	<0.001	0.01	0.73	3.5	0.6	0.6	7.1	<0.01	0.03	3.3
ZZ53144		0.27	29.5	360	22.7	11.8	<0.001	0.02	0.27	5.0	0.5	0.8	14.7	<0.01	0.01	4.0
ZZ53145		0.47	26.0	660	22.5	13.3	<0.001	0.03	0.71	2.4	0.5	0.6	6.2	<0.01	0.03	1.9
ZZ53146		0.25	24.9	680	89.7	13.8	<0.001	0.07	2.68	4.5	0.8	0.5	31.1	<0.01	0.02	2.7
ZZ53147		0.54	24.4	430	23.7	11.0	<0.001	0.02	0.66	1.8	0.5	0.8	6.2	<0.01	0.04	1.6
ZZ53148		0.40	27.3	430	24.7	9.5	<0.001	0.02	0.57	2.2	0.5	0.6	6.1	<0.01	0.03	2.8
ZZ53149		0.71	26.5	640	14.2	10.6	<0.001	0.02	0.99	2.2	0.9	0.7	10.7	<0.01	0.03	0.8
ZZ53150		0.49	28.2	670	17.2	16.6	<0.001	0.04	0.36	5.1	0.6	0.6	21.2	<0.01	0.03	3.3
ZZ53151		0.26	25.4	1400	31.8	14.7	<0.001	0.08	0.50	1.2	0.5	0.6	19.4	<0.01	0.05	0.8
ZZ53152		0.62	14.9	680	12.9	16.0	<0.001	0.03	0.90	1.1	0.6	0.9	8.2	<0.01	0.02	0.3
ZZ53153		0.46	26.1	520	22.9	12.5	<0.001	0.02	0.94	2.4	0.7	0.6	7.7	<0.01	0.09	2.1
ZZ53154		0.68	20.0	830	15.5	16.5	<0.001	0.02	1.09	1.8	0.6	0.8	7.5	<0.01	0.05	0.7
ZZ53155		0.22	16.7	740	12.6	14.7	<0.001	0.05	0.75	0.8	0.7	0.6	11.9	<0.01	0.02	0.2
ZZ53156		0.62	20.6	1020	14.6	13.6	<0.001	0.04	0.87	1.7	0.9	0.7	9.8	<0.01	0.04	0.6
ZZ53157		0.34	26.6	910	18.2	11.0	<0.001	0.04	1.16	1.0	0.9	0.7	8.4	<0.01	0.06	0.2
ZZ53158		0.44	43.5	1240	21.0	15.0	0.001	0.03	2.14	3.5	1.6	0.7	7.5	<0.01	0.07	2.0
ZZ53159		0.35	25.8	1770	14.6	13.7	0.001	0.04	1.25	1.6	0.9	0.8	7.0	<0.01	0.06	0.7
ZZ53160		0.48	32.0	1540	17.8	14.7	0.001	0.03	1.27	2.4	1.1	0.7	10.5	<0.01	0.02	1.1
ZZ53161		0.22	60.6	1890	32.5	13.4	0.001	0.02	1.28	6.0	1.6	0.6	14.8	<0.01	0.05	3.5
ZZ53162		0.29	15.1	1150	11.9	11.2	<0.001	0.04	0.57	0.5	0.6	0.7	8.9	<0.01	0.02	0.2
ZZ53163		0.42	24.4	1270	18.1	18.7	0.001	0.06	1.02	1.7	0.8	0.7	11.0	<0.01	0.04	0.5
ZZ53164		0.38	29.3	1850	18.2	16.2	<0.001	0.03	0.94	4.7	1.0	0.7	14.9	<0.01	0.06	2.1
ZZ53165		0.41	18.5	900	14.2	13.5	<0.001	0.04	0.87	1.1	0.7	0.6	8.6	<0.01	0.05	0.3
ZZ53166		0.40	34.2	1420	16.2	9.5	<0.001	0.05	1.17	5.7	1.2	0.5	32.3	<0.01	0.04	2.1
ZZ53167		0.57	24.5	1480	11.6	7.8	0.005	0.09	0.97	3.4	1.8	0.5	52.6	<0.01	0.03	1.4
ZZ53168		0.43	38.5	900	14.8	7.3	0.004	0.05	1.74	5.0	1.6	0.5	47.7	<0.01	0.08	3.1
ZZ53169		0.29	61.7	1400	15.0	11.0	0.010	0.13	4.16	3.2	4.5	0.5	63.1	<0.01	0.07	0.9
ZZ53170		0.51	29.8	1660	14.8	11.5	0.001	0.08	0.98	1.3	1.1	0.7	23.3	<0.01	0.06	0.3
ZZ53171		0.52	18.1	1370	15.2	13.3	<0.001	0.06	1.16	1.1	1.1	0.7	20.7	<0.01	0.05	0.3
ZZ53172		0.53	18.8	960	13.0	11.9	0.001	0.04	0.81	1.2	0.9	0.7	9.5	<0.01	0.04	0.4
ZZ53173		0.39	26.9	1620	13.6	9.7	0.001	0.06	0.84	0.9	0.6	0.5	17.5	<0.01	0.03	0.3
ZZ53174		0.27	68.0	1320	13.8	5.6	0.006	0.07	1.66	4.1	3.4	0.5	23.9	<0.01	0.09	0.8
ZZ53175		0.33	72.9	1410	15.9	7.2	0.003	0.10	2.24	3.3	4.0	0.7	19.6	<0.01	0.10	0.7
ZZ53176		0.37	66.7	1560	16.7	8.4	0.002	0.15	1.17	1.7	2.3	0.5	22.3	<0.01	0.09	0.4
ZZ53177		0.43	27.5	1580	14.5	6.4	0.001	0.13	0.97	1.7	1.4	0.4	25.0	<0.01	0.04	0.4
ZZ53178		0.69	117.0	1350	17.9	12.1	0.001	0.09	1.46	2.9	1.5	0.6	21.7	<0.01	0.08	0.9
ZZ53179		0.43	80.5	1640	11.0	8.4	0.002	0.18	1.11	1.3	2.8	0.4	26.0	<0.01	0.03	0.3
ZZ53180		0.45	82.2	1870	13.0	10.1	0.001	0.11	1.94	1.8	2.5	0.4	19.0	<0.01	0.07	0.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53141		0.018	0.13	1.33	54	0.21	6.63	105	1.4
ZZ53142		0.006	0.13	0.62	45	0.08	3.66	95	1.6
ZZ53143		0.005	0.14	0.65	38	0.08	5.89	100	1.5
ZZ53144		<0.005	0.08	0.84	29	<0.05	8.79	88	1.9
ZZ53145		0.009	0.12	0.62	29	0.11	4.51	85	1.0
ZZ53146		<0.005	0.71	2.53	19	0.06	10.65	698	2.5
ZZ53147		0.015	0.11	0.76	31	0.17	3.87	70	<0.5
ZZ53148		0.012	0.07	0.69	27	0.14	3.90	81	0.8
ZZ53149		0.035	0.14	0.97	51	0.32	6.40	98	<0.5
ZZ53150		0.010	0.09	1.85	31	0.11	12.10	124	2.8
ZZ53151		0.008	0.08	0.92	28	0.10	5.43	78	0.8
ZZ53152		0.031	0.13	0.68	59	0.27	2.50	67	<0.5
ZZ53153		0.009	0.12	0.67	32	0.10	3.48	95	0.7
ZZ53154		0.016	0.20	0.63	59	0.17	2.82	87	<0.5
ZZ53155		0.010	0.13	0.80	34	0.14	5.30	76	<0.5
ZZ53156		0.019	0.18	1.12	58	0.22	5.99	110	<0.5
ZZ53157		0.014	0.18	0.90	58	0.15	4.57	109	<0.5
ZZ53158		0.008	0.22	1.02	60	0.09	8.22	170	1.5
ZZ53159		0.008	0.22	0.84	67	0.12	4.98	108	0.8
ZZ53160		0.010	0.20	0.93	61	0.13	5.83	118	0.7
ZZ53161		0.005	0.22	0.97	51	0.05	21.8	162	1.4
ZZ53162		0.010	0.17	0.73	48	0.19	3.58	50	<0.5
ZZ53163		0.019	0.16	0.98	61	0.18	4.27	122	<0.5
ZZ53164		0.007	0.17	0.89	77	0.08	8.79	120	1.1
ZZ53165		0.009	0.14	0.59	50	0.15	2.68	79	<0.5
ZZ53166		0.008	0.17	1.12	45	0.09	18.00	116	1.8
ZZ53167		0.014	0.12	2.19	43	0.14	11.85	97	1.5
ZZ53168		0.013	0.20	1.77	63	0.20	12.10	135	2.5
ZZ53169		0.011	1.08	2.57	105	0.15	12.70	244	1.5
ZZ53170		0.013	0.49	4.02	81	0.20	14.55	161	<0.5
ZZ53171		0.010	0.39	1.64	117	0.24	4.23	110	<0.5
ZZ53172		0.011	0.23	1.12	69	0.17	3.30	102	<0.5
ZZ53173		0.013	0.17	1.69	108	0.36	6.36	159	<0.5
ZZ53174		0.008	0.20	4.14	96	0.17	42.6	431	1.6
ZZ53175		0.006	0.43	6.40	113	0.19	47.8	207	2.0
ZZ53176		0.011	0.36	5.33	76	0.23	35.6	272	0.9
ZZ53177		0.010	0.12	4.65	68	0.15	28.9	98	0.9
ZZ53178		0.012	0.36	3.06	83	0.19	27.3	608	1.2
ZZ53179		0.008	0.36	7.79	62	0.13	21.9	432	0.9
ZZ53180		0.014	0.27	2.66	61	0.20	13.40	309	1.2



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ53181		0.17	0.001	0.30	1.20	13.4	<0.2	<10	1210	0.70	0.22	3.30	12.35	18.40	16.5	26
ZZ53182		0.24	<0.001	0.40	0.58	10.0	<0.2	<10	440	0.41	0.22	4.01	2.58	8.18	9.9	23
ZZ53183		0.17	<0.001	0.38	1.36	32.4	<0.2	<10	800	0.79	0.25	2.14	7.47	20.8	14.6	29
ZZ53184		0.34	0.005	1.08	0.80	38.2	<0.2	<10	1320	0.62	0.25	4.52	8.08	14.45	22.8	31
ZZ53185		0.20	0.007	0.96	0.65	29.3	<0.2	<10	1580	0.47	0.20	2.22	7.49	9.77	17.4	31
ZZ53186		0.22	0.006	2.29	0.44	23	<0.2	10	2750	0.45	0.15	12.35	6.19	9.11	9.4	27
ZZ53187		0.22	0.008	3.47	0.57	28.1	<0.2	10	560	0.62	0.38	1.21	3.87	10.45	6.7	41
ZZ53188		0.27	0.008	2.94	0.63	23.2	<0.2	10	1530	0.62	0.34	2.62	3.77	10.15	7.3	34
ZZ53189		0.16	0.003	0.88	1.67	22.8	<0.2	<10	900	0.79	0.26	0.61	1.22	23.4	13.2	27
ZZ53190		0.35	0.006	0.62	0.23	7.9	<0.2	<10	280	0.23	0.19	0.14	0.42	4.12	0.9	4
ZZ39001		0.21	0.004	0.89	0.88	41.6	<0.2	<10	430	1.01	0.20	1.19	4.98	15.80	14.5	32
ZZ39002		0.22	0.004	0.64	0.99	29.2	<0.2	<10	290	1.09	0.25	1.37	4.68	15.50	15.2	27
ZZ39003		0.16	0.006	0.43	1.29	18.3	<0.2	<10	430	0.94	0.23	0.91	1.02	11.40	11.8	27
ZZ39004		0.19	0.001	0.11	1.13	15.8	<0.2	<10	300	0.92	0.24	0.25	0.21	11.25	16.3	23
ZZ39005		0.12	0.003	0.67	1.76	18.1	<0.2	<10	170	0.43	0.27	0.04	0.38	15.60	6.6	31
ZZ39006		0.13	0.005	0.51	1.43	16.3	<0.2	<10	490	0.83	0.23	1.55	1.01	18.00	13.4	26
ZZ39007		0.18	0.006	0.36	1.05	17.1	<0.2	<10	590	0.66	0.19	2.02	0.93	19.60	10.3	22
ZZ39008		0.16	0.017	0.72	0.94	21.6	<0.2	<10	310	0.89	0.21	1.00	1.35	13.40	10.9	25
ZZ39009		0.15	0.008	0.07	1.30	54.1	<0.2	<10	1590	0.59	0.26	0.34	1.30	17.70	11.8	36
ZZ39010		0.14	0.004	1.02	0.94	21.3	<0.2	<10	440	0.87	0.23	1.67	2.17	10.85	10.6	27
ZZ39011		0.24	0.003	0.35	1.04	26.2	<0.2	<10	470	0.78	0.22	1.68	1.04	17.15	10.2	21
ZZ39012		0.19	0.002	0.11	0.85	19.3	<0.2	<10	250	0.57	0.19	4.10	0.40	17.25	11.6	17
ZZ39013		0.21	0.003	0.18	1.08	20.1	<0.2	<10	320	0.83	0.23	2.04	0.60	18.70	11.4	21
ZZ39014		0.21	0.003	0.20	1.02	20.2	<0.2	<10	280	0.73	0.21	1.56	0.66	21.9	11.2	20
ZZ39015		0.22	0.009	0.26	1.35	22.1	<0.2	<10	420	0.94	0.26	1.56	0.55	23.6	12.9	27
ZZ39016		0.18	0.002	0.10	0.83	14.9	<0.2	<10	340	0.87	0.22	1.19	0.40	12.50	12.2	14
ZZ39017		0.22	0.003	0.25	1.54	18.7	<0.2	<10	320	1.01	0.26	0.96	0.42	22.0	15.8	27
ZZ39018		0.20	0.004	0.31	1.13	21.3	<0.2	<10	430	0.82	0.21	1.78	0.79	23.2	13.5	23
ZZ39019		0.17	0.003	0.28	1.07	20.5	<0.2	<10	460	0.95	0.24	1.30	0.63	20.3	15.1	21
ZZ39020		0.12	0.004	0.25	1.16	17.5	<0.2	<10	840	0.83	0.23	1.41	0.86	20.6	13.6	22
ZZ39021		0.25	0.003	0.29	1.09	23.6	<0.2	<10	720	0.90	0.21	1.90	1.05	19.60	13.4	21
ZZ39022		0.18	0.004	0.40	1.43	31.3	<0.2	<10	470	1.12	0.27	1.73	0.82	21.9	15.5	26
ZZ39023		0.16	0.004	0.28	0.99	19.9	<0.2	<10	750	0.82	0.22	0.79	1.91	19.00	11.0	20
ZZ39024		0.10	0.003	0.43	0.99	15.7	<0.2	<10	760	0.78	0.25	0.75	1.29	18.45	8.4	20
ZZ39025		0.26	0.003	0.18	1.62	14.6	<0.2	<10	360	1.13	0.28	0.42	1.03	17.25	15.4	28
ZZ39026		0.20	0.006	0.44	0.70	135.0	<0.2	<10	640	0.54	0.17	3.44	1.38	12.20	8.5	16
ZZ39027		0.18	0.008	0.58	0.87	161.0	<0.2	<10	750	0.65	0.19	1.31	1.72	18.40	9.8	20
ZZ39028		0.18	0.006	0.57	0.76	179.5	<0.2	<10	640	0.63	0.17	2.29	1.74	14.30	8.9	18
ZZ39029		0.16	0.010	0.78	0.75	134.5	<0.2	<10	660	0.57	0.18	2.57	1.24	13.00	7.1	21
ZZ39030		0.20	0.014	0.94	0.53	100.5	<0.2	<10	810	0.60	0.14	5.00	2.58	12.10	6.0	28

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ53181		0.65	30.6	3.03	3.41	0.06	0.04	0.13	0.033	0.05	14.2	9.3	0.22	611	3.98	0.01
ZZ53182		0.52	22.6	2.86	1.44	<0.05	0.07	0.27	0.039	0.06	7.9	3.0	0.12	381	4.74	0.01
ZZ53183		0.71	30.0	2.97	4.01	0.05	0.03	0.15	0.035	0.05	18.1	9.7	0.27	677	10.20	0.01
ZZ53184		0.53	49.4	3.35	2.61	0.06	0.06	0.44	0.041	0.07	12.3	5.8	0.15	454	51.2	0.01
ZZ53185		0.36	29.8	2.81	1.91	<0.05	0.08	0.28	0.032	0.05	8.8	3.9	0.15	358	38.0	<0.01
ZZ53186		0.70	42.0	1.87	1.30	0.06	0.04	0.21	0.033	0.07	9.1	1.9	1.25	236	48.9	<0.01
ZZ53187		0.83	52.9	2.94	2.17	0.05	0.06	0.31	0.079	0.17	7.3	3.8	0.08	126	19.85	0.01
ZZ53188		0.59	47.2	2.39	1.95	0.05	0.08	0.27	0.057	0.07	7.1	3.4	0.08	115	16.50	<0.01
ZZ53189		1.27	52.0	3.69	5.26	<0.05	0.06	0.09	0.039	0.08	10.7	30.0	0.54	409	5.83	0.01
ZZ53190		1.05	16.8	0.60	0.76	<0.05	0.02	0.15	0.009	0.06	2.1	1.3	0.04	29	7.46	<0.01
ZZ39001		1.09	66.6	3.39	2.95	0.05	0.05	0.24	0.049	0.09	7.6	10.2	0.31	736	11.25	0.01
ZZ39002		1.32	64.6	3.63	3.27	0.05	0.07	0.50	0.046	0.10	6.8	13.0	0.55	738	7.88	0.01
ZZ39003		1.04	33.5	3.36	3.74	<0.05	0.04	0.20	0.041	0.09	5.4	21.8	0.41	479	3.51	0.01
ZZ39004		1.52	40.7	4.11	3.42	<0.05	0.02	0.13	0.047	0.08	4.8	21.7	0.29	218	2.67	0.01
ZZ39005		1.60	13.2	4.07	5.88	<0.05	0.05	0.05	0.035	0.04	7.8	23.7	0.25	192	1.83	0.01
ZZ39006		1.32	25.8	3.24	4.32	<0.05	0.05	0.31	0.034	0.08	9.2	21.7	0.35	588	1.89	0.01
ZZ39007		0.64	28.7	2.59	3.20	<0.05	0.04	0.33	0.033	0.06	9.2	13.7	0.31	697	1.43	0.01
ZZ39008		1.45	41.2	2.95	3.11	<0.05	0.05	0.31	0.037	0.07	7.3	15.5	0.31	386	5.74	0.01
ZZ39009		1.23	20.0	4.68	4.95	<0.05	0.04	0.27	0.040	0.05	9.8	11.5	0.14	1130	3.42	<0.01
ZZ39010		1.26	46.0	3.04	3.17	<0.05	0.04	0.30	0.038	0.08	5.2	16.9	0.51	323	6.55	0.01
ZZ39011		0.70	37.5	2.98	3.18	<0.05	0.04	0.37	0.029	0.07	8.5	14.8	0.53	601	2.33	0.01
ZZ39012		0.69	34.2	3.16	2.76	0.05	0.06	0.24	0.029	0.05	7.2	15.5	1.19	832	1.05	0.01
ZZ39013		0.74	37.5	3.36	3.41	<0.05	0.05	0.24	0.035	0.08	8.1	18.1	0.79	618	1.58	0.01
ZZ39014		0.76	34.7	3.56	3.37	0.05	0.05	0.23	0.035	0.07	9.9	17.4	0.70	438	1.66	0.01
ZZ39015		1.13	45.3	3.71	4.33	0.05	0.07	0.28	0.042	0.10	10.6	24.5	0.85	566	2.05	0.01
ZZ39016		0.73	31.3	3.45	2.33	<0.05	0.03	0.12	0.042	0.07	4.9	10.1	0.25	412	1.53	0.01
ZZ39017		1.20	49.5	3.58	4.85	<0.05	0.07	0.18	0.044	0.10	9.1	31.6	0.74	412	1.35	0.01
ZZ39018		0.77	46.9	3.38	3.53	0.05	0.05	0.25	0.033	0.07	10.8	20.2	0.95	1220	1.73	0.01
ZZ39019		0.98	47.1	3.44	3.71	0.05	0.06	0.29	0.045	0.08	9.9	20.3	0.58	493	3.27	0.01
ZZ39020		0.63	32.8	3.16	3.78	<0.05	0.06	0.24	0.036	0.06	9.5	20.6	0.42	1160	2.00	0.01
ZZ39021		0.84	44.9	3.30	3.77	<0.05	0.06	0.27	0.038	0.06	9.9	20.3	0.98	521	2.20	0.01
ZZ39022		1.22	64.9	3.68	4.82	0.05	0.08	0.41	0.045	0.10	11.3	26.0	1.05	606	2.53	0.01
ZZ39023		0.98	40.1	3.17	3.25	<0.05	0.07	0.22	0.035	0.06	8.8	15.3	0.34	345	6.65	0.01
ZZ39024		1.31	39.0	2.64	3.34	0.05	0.07	0.44	0.041	0.08	8.7	16.6	0.34	223	4.47	0.01
ZZ39025		1.12	35.5	3.13	5.01	<0.05	0.05	0.14	0.043	0.08	7.7	24.5	0.45	329	7.23	0.01
ZZ39026		1.25	31.1	2.59	2.20	<0.05	0.04	0.28	0.027	0.08	6.0	10.4	1.26	440	4.23	0.01
ZZ39027		1.76	37.5	2.79	2.91	0.05	0.05	0.33	0.029	0.09	8.8	11.9	0.62	426	3.46	0.01
ZZ39028		1.69	37.0	2.60	2.64	<0.05	0.04	0.75	0.028	0.08	7.2	11.5	0.94	437	3.91	0.01
ZZ39029		1.46	25.2	2.42	2.38	0.05	0.05	0.63	0.028	0.08	7.0	8.6	0.92	286	4.17	0.01
ZZ39030		1.69	31.5	2.29	1.71	<0.05	0.05	0.39	0.021	0.09	8.5	6.1	2.00	450	5.80	0.01

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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ53181		0.54	107.5	2340	13.5	6.6	<0.001	0.13	1.65	1.9	1.8	0.5	33.1	<0.01	0.09	0.5
ZZ53182		0.14	53.7	1650	15.3	5.4	0.002	0.18	1.07	2.3	2.0	0.4	48.4	<0.01	0.14	0.4
ZZ53183		0.42	83.5	1420	16.7	8.1	0.002	0.11	1.56	1.7	2.4	0.5	22.6	<0.01	0.08	0.4
ZZ53184		0.20	165.0	3120	17.3	5.3	0.004	0.07	3.15	3.1	5.9	0.6	67.6	<0.01	0.26	0.8
ZZ53185		0.14	178.5	2010	14.5	3.8	0.003	0.10	2.72	1.6	5.7	0.5	48.4	<0.01	0.15	0.5
ZZ53186		0.05	147.0	2970	11.3	4.8	0.007	0.12	4.87	2.4	5.1	0.4	217	<0.01	0.22	0.5
ZZ53187		0.11	92.5	2680	24.2	11.5	0.006	0.33	3.40	3.1	5.7	0.7	178.0	<0.01	0.44	0.9
ZZ53188		0.13	121.0	2880	21.0	6.4	0.009	0.20	3.28	2.4	6.5	0.6	138.0	<0.01	0.54	0.5
ZZ53189		0.19	47.4	1370	16.8	9.9	0.001	0.04	2.57	3.5	2.1	0.4	32.1	<0.01	0.07	1.9
ZZ53190		0.05	9.9	140	13.2	5.1	0.009	0.04	3.95	1.6	2.0	0.3	24.2	<0.01	0.06	0.6
ZZ39001		0.28	75.2	1360	18.2	6.8	0.007	0.06	3.18	7.0	3.3	0.6	147.0	<0.01	0.09	2.4
ZZ39002		0.40	92.9	1140	20.8	8.5	0.008	0.03	1.98	6.2	3.5	0.5	111.5	<0.01	0.06	3.4
ZZ39003		0.31	51.8	780	16.4	8.4	0.001	0.05	0.97	4.8	1.5	0.5	49.2	<0.01	0.04	1.8
ZZ39004		0.21	58.1	660	16.2	9.1	0.002	0.03	0.63	4.5	1.1	0.4	25.5	<0.01	0.05	3.2
ZZ39005		0.77	21.7	890	18.2	14.4	<0.001	0.03	0.82	2.8	1.3	0.7	15.3	<0.01	0.06	2.5
ZZ39006		0.52	39.2	1800	17.2	9.8	0.003	0.05	0.70	4.7	2.2	0.5	40.8	<0.01	0.05	2.4
ZZ39007		0.61	30.4	870	16.6	5.8	0.002	0.06	0.78	3.8	1.6	0.4	37.8	<0.01	0.05	1.3
ZZ39008		0.25	59.3	1050	16.4	8.0	0.002	0.03	1.61	5.2	2.1	0.5	68.3	<0.01	0.06	2.4
ZZ39009		0.78	31.3	1590	72.2	12.8	0.001	0.05	1.20	4.5	1.2	0.5	67.0	<0.01	0.06	2.4
ZZ39010		0.23	65.7	990	16.3	7.6	0.002	0.04	1.77	4.9	2.5	0.5	72.2	<0.01	0.05	2.1
ZZ39011		0.45	36.0	770	20.2	6.3	0.001	0.04	1.07	3.7	1.2	0.4	33.7	<0.01	0.02	1.4
ZZ39012		1.14	27.1	670	19.8	4.6	0.001	0.02	0.55	4.2	0.9	0.3	84.6	<0.01	0.02	3.1
ZZ39013		0.87	34.6	770	21.5	6.9	0.001	0.03	0.69	4.5	0.9	0.4	44.6	<0.01	0.04	2.9
ZZ39014		0.76	33.9	870	20.6	7.4	<0.001	0.05	0.63	4.9	0.9	0.3	35.1	<0.01	0.04	2.5
ZZ39015		0.68	41.1	770	20.3	8.7	0.001	0.04	0.79	5.7	1.3	0.4	41.4	<0.01	0.06	3.4
ZZ39016		0.35	36.6	780	17.8	7.2	0.001	0.07	0.48	4.8	1.3	0.3	31.3	<0.01	0.06	2.0
ZZ39017		0.47	46.6	660	20.8	8.8	0.002	0.03	0.64	6.9	1.5	0.4	36.3	<0.01	0.06	3.5
ZZ39018		0.51	38.6	830	19.7	7.7	0.001	0.03	0.68	6.3	1.3	0.3	43.7	<0.01	0.05	2.5
ZZ39019		0.34	39.0	780	18.7	6.9	<0.001	0.03	1.15	5.6	1.4	0.4	42.4	<0.01	0.05	2.6
ZZ39020		0.55	30.2	950	21.3	6.3	<0.001	0.05	0.71	4.6	1.9	0.4	44.1	<0.01	0.05	1.8
ZZ39021		0.38	35.0	790	20.2	6.2	<0.001	0.04	0.99	5.7	2.0	0.4	41.8	<0.01	0.08	2.4
ZZ39022		0.31	42.3	780	23.8	8.3	0.001	0.03	1.26	6.8	1.8	0.4	41.2	<0.01	0.11	2.9
ZZ39023		0.44	41.4	810	17.7	8.1	0.003	0.07	1.65	4.5	4.6	0.4	37.3	<0.01	0.05	3.2
ZZ39024		0.40	32.7	880	17.4	9.0	0.007	0.07	1.79	4.6	3.1	0.4	37.6	<0.01	0.08	3.0
ZZ39025		0.31	55.7	820	19.3	11.2	0.001	0.03	0.81	5.6	2.4	0.6	30.1	<0.01	0.04	4.0
ZZ39026		0.24	35.4	900	18.4	6.0	0.003	0.07	1.58	3.5	2.3	0.3	71.1	<0.01	0.07	1.9
ZZ39027		0.35	44.6	950	21.3	8.6	0.005	0.06	1.69	4.2	2.7	0.4	45.0	<0.01	0.08	2.4
ZZ39028		0.34	41.7	930	20.0	8.0	0.005	0.06	1.73	4.2	2.7	0.4	56.9	<0.01	0.07	2.4
ZZ39029		0.26	33.1	1000	20.8	7.5	0.006	0.08	1.92	3.7	3.4	0.4	62.1	<0.01	0.06	1.4
ZZ39030		0.16	43.8	1520	18.6	6.7	0.006	0.10	2.02	4.1	3.6	0.3	82.0	<0.01	0.08	1.2

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ53181		0.014	0.21	4.02	66	0.30	32.2	595	1.2
ZZ53182		<0.005	0.54	3.41	39	0.08	28.2	198	1.8
ZZ53183		0.012	0.22	4.76	72	0.13	33.8	299	0.8
ZZ53184		0.007	0.55	11.40	80	0.21	44.7	718	1.9
ZZ53185		0.005	0.38	8.18	73	0.15	33.9	809	2.2
ZZ53186		<0.005	0.61	10.25	93	0.26	36.6	741	1.4
ZZ53187		<0.005	0.73	5.79	127	0.22	24.1	429	1.8
ZZ53188		<0.005	0.37	9.83	112	0.17	28.0	528	2.5
ZZ53189		<0.005	0.20	1.16	153	0.09	6.89	122	1.5
ZZ53190		<0.005	0.56	1.73	82	0.05	5.13	23	0.7
ZZ39001		<0.005	0.51	3.87	152	0.10	16.50	316	2.5
ZZ39002		0.005	0.46	2.84	94	0.06	16.45	451	3.0
ZZ39003		<0.005	0.22	1.93	68	0.06	14.75	181	1.3
ZZ39004		<0.005	0.14	1.10	33	<0.05	9.06	179	0.8
ZZ39005		0.008	0.22	0.77	66	0.15	2.58	97	2.0
ZZ39006		0.006	0.18	2.75	52	0.10	16.20	131	1.5
ZZ39007		0.009	0.14	2.32	45	0.10	13.60	98	1.2
ZZ39008		<0.005	0.26	1.84	73	0.07	18.45	210	2.0
ZZ39009		0.008	0.26	1.60	86	0.11	15.30	125	1.4
ZZ39010		<0.005	0.35	1.92	88	0.08	16.85	263	1.9
ZZ39011		0.008	0.22	1.13	50	0.08	13.05	153	1.0
ZZ39012		0.025	0.12	0.77	28	0.06	8.31	119	2.2
ZZ39013		0.012	0.14	0.91	38	0.07	10.60	138	1.6
ZZ39014		0.011	0.15	0.93	37	0.06	12.55	140	1.5
ZZ39015		0.010	0.16	0.96	44	0.10	11.95	133	2.2
ZZ39016		<0.005	0.11	1.09	28	<0.05	9.23	131	1.2
ZZ39017		0.005	0.13	0.69	41	<0.05	12.20	122	2.7
ZZ39018		0.009	0.16	0.89	40	0.06	14.65	125	1.8
ZZ39019		0.005	0.20	1.17	43	0.05	12.70	134	1.6
ZZ39020		0.008	0.11	2.37	42	0.06	12.20	136	1.5
ZZ39021		0.006	0.17	1.05	45	0.06	15.20	130	1.6
ZZ39022		0.006	0.20	1.25	51	0.07	15.90	153	2.4
ZZ39023		0.007	0.24	3.60	55	0.13	11.20	188	2.4
ZZ39024		0.007	0.40	2.39	58	0.09	10.60	181	2.4
ZZ39025		<0.005	0.24	5.73	53	0.06	9.57	284	1.5
ZZ39026		0.005	0.33	1.51	55	0.10	12.55	189	1.3
ZZ39027		0.009	0.49	1.41	63	0.12	14.70	234	1.5
ZZ39028		0.006	0.45	1.70	60	0.11	14.85	202	1.7
ZZ39029		0.005	0.70	2.01	66	0.14	14.20	216	1.5
ZZ39030		<0.005	0.37	3.08	70	0.14	21.7	253	1.7



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39031		0.17	0.010	1.22	0.67	110.5	<0.2	10	910	0.84	0.20	1.83	2.54	14.10	9.2	21
ZZ39032		0.17	0.006	0.73	0.72	113.0	<0.2	<10	750	0.66	0.20	2.73	1.89	16.10	10.1	18
ZZ39033		0.16	0.011	0.75	0.60	127.0	<0.2	<10	900	0.67	0.19	1.34	1.90	12.10	7.6	18
ZZ39034		0.14	0.012	0.88	0.62	169.0	<0.2	<10	780	0.62	0.19	2.84	2.81	12.65	8.8	18
ZZ39035		0.14	0.006	0.66	0.84	92.3	<0.2	<10	620	0.79	0.21	1.10	1.32	17.00	9.5	21
ZZ39036		0.17	0.010	0.99	0.72	84.6	<0.2	10	810	0.75	0.22	1.79	2.99	13.90	8.6	20
ZZ39037		0.10	0.010	0.66	1.00	107.5	<0.2	<10	650	1.12	0.22	1.37	1.15	18.05	11.4	23
ZZ39038		0.18	0.005	0.09	1.52	40.8	<0.2	<10	490	1.29	0.30	0.32	0.49	26.2	16.3	28
ZZ39039		0.19	0.003	1.19	1.30	89.8	<0.2	<10	690	0.92	0.23	1.26	0.64	16.25	11.6	31
ZZ39040		0.18	0.012	1.06	1.60	43.5	<0.2	<10	620	1.53	0.25	0.91	3.09	33.1	13.5	35
ZZ39041		0.12	0.003	0.03	1.95	34.8	<0.2	<10	370	0.75	0.26	0.44	0.50	14.75	13.1	31
ZZ39042		0.17	0.002	0.21	2.57	32.5	<0.2	<10	180	1.46	0.29	0.10	1.26	34.0	15.5	38
ZZ39043		0.15	0.003	0.10	1.46	16.7	<0.2	<10	460	0.47	0.31	0.67	0.50	26.6	8.3	25
ZZ39044		0.23	0.005	0.39	1.17	77.8	<0.2	<10	520	0.93	0.21	1.91	0.98	17.45	10.9	24
ZZ39045		0.10	0.003	0.31	1.15	70.1	<0.2	<10	610	0.96	0.21	1.15	0.91	17.15	12.9	23
ZZ39046		0.16	0.010	0.25	0.84	24.7	<0.2	<10	470	0.74	0.18	1.91	1.66	17.55	7.8	19
ZZ39047		0.22	0.004	0.28	0.96	154.5	<0.2	<10	410	0.80	0.18	4.48	0.92	16.40	10.5	19
ZZ39048		0.18	0.003	0.34	1.43	35.3	<0.2	<10	550	0.94	0.24	1.11	0.69	23.0	12.6	27
ZZ39049		0.16	0.003	0.14	1.67	43.4	<0.2	<10	500	1.32	0.27	0.33	0.33	26.8	15.0	30
ZZ52251		0.31	0.004	0.35	1.72	21.6	<0.2	<10	300	0.87	0.29	0.76	0.54	28.2	21.8	29
ZZ52252		0.25	0.002	0.26	1.44	26.1	<0.2	<10	620	0.86	0.23	1.75	0.62	19.95	16.5	27
ZZ52253		0.27	0.003	0.24	1.39	28.6	<0.2	<10	570	0.93	0.25	1.73	0.58	17.20	10.5	22
ZZ52254		0.24	0.004	0.23	1.32	22.0	<0.2	<10	550	0.91	0.24	1.62	0.71	17.85	11.1	21
ZZ52255		0.29	0.003	0.21	1.31	18.0	<0.2	<10	440	0.81	0.27	1.62	0.57	20.6	10.9	22
ZZ52256		0.24	0.003	0.25	1.28	17.0	<0.2	<10	340	0.89	0.26	1.41	0.54	17.30	10.2	21
ZZ52257		0.22	<0.001	0.27	1.20	14.2	<0.2	10	320	0.96	0.28	1.77	0.62	16.55	11.5	20
ZZ52258		0.23	0.002	0.16	1.28	13.8	<0.2	<10	460	0.75	0.28	1.31	0.67	22.3	10.3	21
ZZ52259		0.29	0.002	0.27	1.62	23.9	<0.2	<10	440	1.22	0.32	0.63	0.81	25.7	15.6	26
ZZ52260		0.22	0.002	0.27	1.24	14.4	<0.2	10	400	0.83	0.25	1.79	0.56	16.35	9.1	21
ZZ52261		0.21	0.001	0.26	1.36	13.5	<0.2	<10	640	1.02	0.28	1.65	0.88	20.1	10.6	23
ZZ52262		0.29	0.002	0.16	1.36	15.7	<0.2	<10	440	0.93	0.27	1.03	0.35	19.85	11.0	22
ZZ52263		0.29	0.001	0.23	1.22	18.3	<0.2	<10	420	0.83	0.25	1.08	0.64	17.95	11.1	21
ZZ52264		0.21	0.002	0.20	1.16	15.6	<0.2	<10	520	0.75	0.23	1.61	0.53	16.30	8.9	20
ZZ52265		0.29	0.001	0.06	1.11	15.0	<0.2	<10	230	0.58	0.29	0.68	0.28	19.10	7.7	19
ZZ52266		0.26	0.002	0.18	1.25	12.7	<0.2	<10	450	0.76	0.25	1.18	0.42	18.25	7.0	21
ZZ52267		0.25	0.001	0.18	0.95	14.6	<0.2	<10	500	0.75	0.19	1.74	0.51	15.10	8.0	18
ZZ52268		0.44	0.002	0.25	1.34	20.5	<0.2	<10	220	0.88	0.29	1.52	0.73	19.20	14.4	23
ZZ52269		0.21	<0.001	0.31	1.17	13.5	<0.2	<10	520	0.85	0.22	2.54	0.46	12.50	9.2	20
ZZ52270		0.38	0.003	0.28	1.31	17.1	<0.2	<10	340	0.84	0.27	0.85	0.49	26.0	11.2	25
ZZ52271		0.27	0.002	0.23	1.24	15.8	<0.2	<10	250	0.96	0.29	0.64	0.50	23.8	10.8	23



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39031		1.90	52.9	2.61	2.47	<0.05	0.04	0.44	0.036	0.09	7.7	9.7	0.68	376	5.66	0.01
ZZ39032		1.63	41.4	2.73	2.60	<0.05	0.05	0.51	0.036	0.09	8.1	12.4	1.29	518	4.79	0.01
ZZ39033		1.24	35.5	2.35	2.12	<0.05	0.05	0.57	0.034	0.09	6.4	8.4	0.37	247	4.68	0.01
ZZ39034		1.74	47.1	2.58	2.17	<0.05	0.05	0.60	0.030	0.08	6.7	9.1	1.12	382	6.10	0.01
ZZ39035		1.44	41.6	2.68	2.89	0.05	0.05	0.40	0.031	0.08	8.4	12.4	0.43	269	4.05	0.01
ZZ39036		1.67	46.3	2.51	2.52	<0.05	0.05	0.55	0.028	0.09	7.5	10.5	0.48	375	3.92	0.01
ZZ39037		1.27	39.6	2.95	3.31	0.05	0.06	0.40	0.038	0.07	8.5	12.1	0.44	443	4.56	0.01
ZZ39038		0.83	39.1	3.87	4.71	<0.05	0.04	0.17	0.037	0.07	11.6	23.1	0.45	671	2.81	0.01
ZZ39039		0.79	41.7	3.14	4.34	<0.05	0.06	1.52	0.040	0.06	9.4	19.0	0.34	417	3.42	0.01
ZZ39040		0.93	49.0	4.44	3.62	0.08	0.07	0.43	0.047	0.08	19.5	20.1	0.44	1670	5.21	0.01
ZZ39041		0.68	25.7	3.91	5.63	<0.05	0.05	0.02	0.043	0.05	5.8	26.4	0.44	533	2.01	0.01
ZZ39042		1.04	29.1	3.73	5.54	0.05	0.06	0.13	0.046	0.05	13.3	29.1	0.30	822	2.85	0.01
ZZ39043		1.09	12.8	2.86	6.08	<0.05	0.03	0.08	0.028	0.06	12.4	22.5	0.35	362	1.79	0.01
ZZ39044		0.72	42.3	3.26	3.96	<0.05	0.06	0.55	0.040	0.07	9.2	23.8	0.97	349	3.26	0.01
ZZ39045		0.67	33.6	5.14	3.78	<0.05	0.04	0.23	0.034	0.06	8.5	17.0	0.35	389	5.55	0.01
ZZ39046		0.54	46.3	2.30	3.04	<0.05	0.06	0.25	0.032	0.06	8.3	15.6	0.42	169	1.54	0.01
ZZ39047		0.55	27.3	2.78	3.22	<0.05	0.05	0.47	0.029	0.05	7.8	14.6	2.31	414	3.30	0.01
ZZ39048		0.64	31.7	3.17	4.52	<0.05	0.05	0.49	0.032	0.06	11.8	16.7	0.41	704	2.59	0.01
ZZ39049		0.96	35.0	3.69	5.28	<0.05	0.05	0.21	0.041	0.07	12.8	20.9	0.43	509	3.17	0.01
ZZ52251		9.76	43.7	3.93	5.38	0.05	0.08	0.27	0.040	0.12	13.0	29.7	0.74	727	1.14	0.01
ZZ52252		3.29	43.0	3.37	4.70	<0.05	0.08	0.68	0.033	0.10	9.9	23.9	0.71	629	1.19	0.01
ZZ52253		1.11	38.1	3.08	4.36	<0.05	0.06	0.91	0.031	0.08	8.9	19.7	0.52	339	1.28	0.01
ZZ52254		0.83	34.9	3.07	4.19	<0.05	0.06	0.67	0.036	0.08	8.8	18.5	0.47	487	1.48	0.01
ZZ52255		1.03	29.2	3.05	4.37	<0.05	0.06	0.34	0.031	0.08	9.7	22.5	0.46	520	1.39	0.01
ZZ52256		2.61	35.6	3.10	3.76	<0.05	0.07	0.30	0.034	0.10	7.6	20.3	0.52	376	1.01	0.01
ZZ52257		2.28	33.1	2.91	3.48	<0.05	0.09	0.23	0.031	0.12	6.6	22.6	0.67	650	1.11	<0.01
ZZ52258		1.18	29.6	2.92	4.34	<0.05	0.04	0.18	0.034	0.07	10.1	14.7	0.31	370	1.39	<0.01
ZZ52259		0.84	43.1	4.20	4.66	0.06	0.05	0.70	0.043	0.09	12.2	21.7	0.46	770	2.07	<0.01
ZZ52260		1.63	27.9	2.84	3.69	<0.05	0.05	0.27	0.030	0.09	7.8	19.9	0.46	493	1.38	0.01
ZZ52261		1.20	38.2	2.83	4.27	<0.05	0.05	0.20	0.031	0.08	9.8	18.1	0.43	639	1.26	<0.01
ZZ52262		1.13	21.1	3.15	4.16	0.05	0.05	0.23	0.030	0.07	8.9	22.7	0.44	526	1.26	<0.01
ZZ52263		0.73	35.0	3.29	3.77	0.05	0.05	0.22	0.032	0.08	8.2	17.3	0.39	456	1.69	<0.01
ZZ52264		0.73	30.8	2.94	3.38	<0.05	0.18	0.24	0.029	0.07	7.3	13.6	0.37	535	1.32	<0.01
ZZ52265		0.86	19.7	3.20	4.63	<0.05	0.02	0.10	0.031	0.06	8.4	12.6	0.23	304	1.55	<0.01
ZZ52266		0.78	20.9	2.67	4.09	<0.05	0.03	0.21	0.032	0.06	8.9	13.3	0.34	342	1.18	<0.01
ZZ52267		0.64	25.5	2.54	2.95	<0.05	0.06	0.25	0.029	0.07	7.0	12.7	0.38	489	1.37	<0.01
ZZ52268		1.76	43.7	3.83	3.86	0.05	0.09	0.22	0.034	0.13	8.5	22.2	0.98	880	1.84	<0.01
ZZ52269		1.11	43.1	2.59	3.23	<0.05	0.06	0.30	0.029	0.08	6.2	12.0	0.41	796	1.14	0.01
ZZ52270		1.16	29.6	3.34	4.25	0.06	0.06	0.29	0.032	0.10	13.6	18.7	0.55	440	1.27	0.01
ZZ52271		0.97	32.7	3.46	3.94	<0.05	0.06	0.31	0.035	0.09	11.2	19.3	0.44	370	1.42	<0.01

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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39031		0.21	58.6	1290	23.4	8.7	0.003	0.07	2.41	4.6	3.5	0.4	80.2	<0.01	0.08	2.1
ZZ39032		0.26	46.0	1050	25.3	7.9	0.004	0.06	2.08	4.0	2.7	0.4	60.6	<0.01	0.06	2.7
ZZ39033		0.20	43.9	980	25.3	6.6	0.005	0.08	2.14	3.5	3.1	0.4	65.4	<0.01	0.08	1.8
ZZ39034		0.18	54.7	1150	26.3	6.9	0.002	0.07	2.67	4.1	3.2	0.4	83.0	<0.01	0.08	2.3
ZZ39035		0.29	40.6	850	22.7	8.6	0.006	0.06	1.88	4.1	2.9	0.4	41.4	<0.01	0.06	2.2
ZZ39036		0.28	43.8	1080	23.5	8.7	0.003	0.07	2.09	3.6	2.4	0.4	58.8	<0.01	0.06	1.8
ZZ39037		0.32	42.3	820	24.4	9.1	0.003	0.07	1.99	4.2	3.5	0.4	46.2	<0.01	0.08	2.1
ZZ39038		0.69	44.7	550	25.0	8.3	<0.001	0.01	1.20	5.3	1.3	0.5	18.7	<0.01	0.07	4.8
ZZ39039		0.94	52.6	970	17.8	6.8	<0.001	0.03	1.01	5.4	2.1	0.5	38.5	<0.01	0.06	2.3
ZZ39040		0.62	57.1	1580	32.7	8.5	0.001	0.05	2.27	8.7	2.4	0.5	35.7	<0.01	0.07	3.5
ZZ39041		1.11	32.0	220	21.9	6.4	<0.001	0.01	0.76	4.1	0.7	0.6	17.0	<0.01	0.07	3.5
ZZ39042		1.40	42.6	610	23.8	14.5	<0.001	0.03	1.47	5.1	1.2	0.7	8.7	0.01	0.07	5.4
ZZ39043		1.20	18.2	370	16.6	12.1	<0.001	0.02	0.75	2.6	0.8	0.6	22.7	<0.01	0.06	2.6
ZZ39044		0.74	37.3	620	17.8	8.7	0.001	0.03	2.21	5.3	1.6	0.5	32.1	<0.01	0.04	2.7
ZZ39045		0.78	36.0	820	17.5	7.8	0.005	0.04	1.33	4.8	1.9	0.4	34.0	<0.01	0.04	2.8
ZZ39046		0.64	34.6	700	15.9	5.8	0.006	0.06	1.24	3.2	2.1	0.3	41.5	<0.01	0.05	1.7
ZZ39047		0.57	40.9	580	27.5	6.0	<0.001	0.03	1.57	3.6	1.5	0.4	37.3	<0.01	0.04	2.2
ZZ39048		0.72	34.1	740	18.7	8.1	<0.001	0.03	1.06	4.2	1.4	0.5	24.9	<0.01	0.06	2.3
ZZ39049		0.45	41.0	260	24.9	10.6	<0.001	0.02	1.24	5.9	1.1	0.6	16.8	<0.01	0.07	4.9
ZZ52251		0.45	71.3	690	21.1	15.2	<0.001	0.03	1.10	6.0	1.0	0.5	30.5	<0.01	0.10	2.8
ZZ52252		0.31	37.8	880	24.4	11.5	<0.001	0.08	1.61	3.6	1.4	0.4	40.9	<0.01	0.08	1.3
ZZ52253		0.43	28.0	780	26.0	8.9	<0.001	0.07	3.10	4.0	1.6	0.5	44.1	<0.01	0.05	1.4
ZZ52254		0.44	26.2	790	21.2	9.2	<0.001	0.08	1.65	3.6	1.4	0.4	43.8	<0.01	0.05	1.2
ZZ52255		0.56	23.3	710	21.2	10.7	<0.001	0.07	0.96	3.6	1.4	0.4	62.7	<0.01	0.08	1.3
ZZ52256		0.34	26.1	690	18.3	14.6	<0.001	0.10	0.74	4.0	1.9	0.4	77.9	<0.01	0.05	1.4
ZZ52257		0.41	20.9	630	20.4	16.3	<0.001	0.09	0.57	4.3	1.1	0.4	240	<0.01	0.04	1.7
ZZ52258		0.70	21.9	640	20.6	9.7	<0.001	0.06	0.56	4.3	1.2	0.5	56.3	<0.01	0.03	1.8
ZZ52259		0.39	34.8	580	27.1	8.9	<0.001	0.02	0.79	6.1	1.3	0.5	28.7	<0.01	0.05	3.7
ZZ52260		0.54	21.2	720	17.3	13.6	0.001	0.09	0.65	3.4	1.8	0.4	120.5	<0.01	0.05	1.1
ZZ52261		0.69	21.8	880	16.6	8.9	<0.001	0.09	0.59	3.4	1.6	0.5	88.4	<0.01	0.04	1.2
ZZ52262		0.55	20.9	420	20.4	10.2	<0.001	0.05	0.53	4.4	1.5	0.5	60.6	<0.01	0.04	2.3
ZZ52263		0.46	27.7	750	17.9	7.4	<0.001	0.06	0.73	4.3	1.2	0.4	48.6	<0.01	0.04	1.8
ZZ52264		0.46	21.8	750	17.2	7.4	<0.001	0.07	0.62	3.3	1.2	0.4	48.7	<0.01	0.04	1.2
ZZ52265		0.63	15.4	330	18.8	10.3	<0.001	0.02	0.51	2.8	0.7	0.6	32.4	<0.01	0.04	2.3
ZZ52266		0.60	18.9	670	16.0	8.4	0.001	0.05	0.47	3.5	1.2	0.5	33.4	<0.01	0.04	1.4
ZZ52267		0.38	20.9	770	14.7	7.4	0.001	0.09	0.63	3.0	2.2	0.4	58.9	<0.01	0.02	1.3
ZZ52268		0.35	37.5	710	20.3	10.5	0.001	0.04	0.74	5.7	1.1	0.4	47.6	<0.01	0.05	3.8
ZZ52269		0.43	27.4	960	14.7	8.4	0.001	0.13	0.68	2.5	2.0	0.4	75.4	<0.01	0.07	0.7
ZZ52270		0.73	29.8	700	18.1	11.9	<0.001	0.03	0.73	6.0	1.4	0.5	32.5	<0.01	0.03	2.9
ZZ52271		0.53	25.9	670	21.9	11.1	<0.001	0.04	0.62	5.4	1.6	0.5	28.0	<0.01	0.05	3.3

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39031		<0.005	0.50	2.22	69	0.10	20.9	278	1.6
ZZ39032		0.006	0.53	1.77	61	0.10	15.80	252	1.6
ZZ39033		<0.005	0.42	2.55	66	0.11	15.90	251	1.5
ZZ39034		<0.005	0.57	2.12	70	0.11	18.85	277	1.5
ZZ39035		0.006	0.41	2.19	68	0.19	16.60	203	1.6
ZZ39036		0.006	0.55	1.87	66	0.16	16.40	261	1.9
ZZ39037		0.005	0.36	2.51	79	0.11	17.60	200	1.9
ZZ39038		0.011	0.19	1.19	55	0.09	12.10	145	1.4
ZZ39039		0.009	0.14	1.84	54	0.07	20.7	163	1.4
ZZ39040		0.008	0.30	3.42	100	0.07	34.9	256	2.0
ZZ39041		0.008	0.16	0.55	62	0.09	3.48	131	1.7
ZZ39042		0.015	0.20	1.32	78	0.18	9.03	166	1.9
ZZ39043		0.032	0.15	1.20	63	0.33	4.38	116	0.7
ZZ39044		0.009	0.37	0.96	67	0.10	13.55	138	1.8
ZZ39045		0.008	0.15	2.25	54	0.10	12.05	152	1.6
ZZ39046		0.008	0.15	1.48	52	0.06	11.65	124	2.1
ZZ39047		0.008	0.40	1.22	57	0.10	10.55	160	1.3
ZZ39048		0.012	0.16	1.69	64	0.17	12.60	115	1.5
ZZ39049		0.007	0.28	1.05	68	0.09	11.15	142	1.5
ZZ52251		0.012	2.88	1.07	50	0.09	11.85	1560	2.1
ZZ52252		0.006	1.12	2.43	41	0.07	11.15	775	2.1
ZZ52253		0.007	0.24	2.86	41	0.07	10.50	332	1.6
ZZ52254		0.007	0.15	2.56	41	0.07	10.30	204	1.5
ZZ52255		0.010	0.15	1.78	44	0.15	9.88	127	1.3
ZZ52256		0.006	0.53	1.39	38	0.06	10.10	379	1.9
ZZ52257		0.006	0.15	1.42	35	0.06	9.71	119	2.3
ZZ52258		0.012	0.14	1.31	44	0.12	8.89	89	1.0
ZZ52259		<0.005	0.20	1.33	56	0.07	13.40	144	1.5
ZZ52260		0.009	0.12	6.10	38	0.10	10.05	133	1.5
ZZ52261		0.012	0.12	3.06	41	0.11	10.00	118	1.5
ZZ52262		0.008	0.13	2.21	42	0.09	8.78	104	1.4
ZZ52263		0.007	0.16	1.65	43	0.07	11.35	130	1.6
ZZ52264		0.009	0.14	1.63	41	0.11	8.94	131	1.3
ZZ52265		0.011	0.14	0.98	50	0.14	4.58	91	0.6
ZZ52266		0.011	0.12	1.82	43	0.18	8.29	92	1.0
ZZ52267		0.006	0.11	2.18	33	0.24	7.93	114	1.7
ZZ52268		0.007	0.21	0.68	44	0.05	10.70	151	3.1
ZZ52269		0.007	0.11	1.65	31	0.13	8.32	102	1.7
ZZ52270		0.020	0.19	0.91	42	0.27	12.95	138	1.7
ZZ52271		0.010	0.14	1.42	41	0.10	11.10	145	1.8



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52272		0.27	0.002	0.17	1.06	23.6	<0.2	<10	220	0.73	0.26	0.88	0.47	19.05	9.9	20
ZZ52273		0.31	0.001	0.29	1.12	10.8	<0.2	<10	290	0.98	0.27	1.59	0.89	18.25	10.6	19
ZZ52274		0.28	0.003	0.24	1.03	11.3	<0.2	<10	210	1.06	0.31	0.76	1.03	19.90	12.7	19
ZZ52275		0.40	0.002	0.26	1.07	15.3	<0.2	<10	220	0.99	0.27	1.42	0.78	19.60	12.4	19
ZZ52276		0.30	0.001	0.27	1.20	14.7	<0.2	<10	430	0.95	0.27	1.38	0.85	18.90	12.7	21
ZZ52277		0.21	0.006	0.24	1.19	11.7	<0.2	<10	430	0.85	0.23	1.89	0.57	15.85	9.6	19
ZZ52278		0.25	0.003	0.24	1.29	17.5	<0.2	<10	400	1.03	0.31	1.18	0.59	17.35	11.8	23
ZZ52279		0.25	0.001	0.22	1.38	12.0	<0.2	<10	440	0.80	0.26	1.39	0.41	20.6	9.3	24
ZZ52280		0.24	0.002	0.22	1.24	17.7	<0.2	<10	460	0.73	0.23	1.03	0.56	21.8	13.3	23
ZZ52281		0.24	0.002	0.23	1.22	13.8	<0.2	<10	710	0.85	0.27	1.72	0.89	19.00	8.8	22
ZZ52282		0.27	0.002	0.21	1.05	18.0	<0.2	<10	340	0.75	0.26	1.27	0.62	17.70	11.6	20
ZZ52283		0.22	0.003	0.31	0.74	14.8	<0.2	<10	690	0.57	0.19	1.31	1.01	11.25	8.9	15
ZZ52284		0.25	0.002	0.27	1.31	11.5	<0.2	<10	970	0.65	0.21	1.90	1.16	19.70	10.5	23
ZZ52285		0.32	0.002	0.25	1.14	17.1	<0.2	<10	550	0.98	0.23	2.10	0.64	15.50	10.2	20
ZZ52286		0.28	0.002	0.19	1.63	11.5	<0.2	<10	520	0.90	0.27	1.61	0.62	25.3	10.2	26
ZZ52287		0.21	0.002	0.21	0.83	17.9	<0.2	<10	220	1.04	0.27	0.90	0.46	26.6	14.0	16
ZZ52288		0.22	0.003	0.21	1.17	17.5	<0.2	<10	200	0.83	0.27	0.76	1.97	26.9	17.0	23
ZZ52289		0.31	0.002	0.33	0.73	9.8	<0.2	<10	320	0.89	0.20	1.22	0.86	19.45	11.7	16
ZZ52290		0.26	0.004	0.34	0.74	12.0	<0.2	<10	260	0.71	0.23	0.87	1.07	13.80	8.9	19
ZZ52291		0.22	0.003	0.39	0.54	13.2	<0.2	<10	240	0.69	0.22	0.87	1.07	13.10	14.4	17
ZZ52292		0.27	0.004	0.40	0.72	17.2	<0.2	<10	290	0.73	0.20	0.83	1.39	10.75	15.5	16
ZZ52293		0.24	0.003	0.44	0.78	17.7	<0.2	<10	300	1.18	0.36	0.61	0.54	11.25	11.6	16
ZZ52294		0.18	0.003	0.54	0.94	15.6	<0.2	<10	370	0.73	0.22	0.65	0.75	12.45	18.3	20
ZZ52295		0.25	0.003	0.44	0.95	19.2	<0.2	<10	440	0.52	0.21	0.29	0.90	12.65	7.8	20
ZZ52296		0.32	0.007	0.52	0.98	23.1	<0.2	<10	650	0.56	0.23	0.33	1.00	13.95	7.0	19
ZZ52297		0.39	0.006	0.81	0.99	15.5	<0.2	<10	680	0.78	0.23	0.57	1.42	18.95	11.3	18
ZZ52298		0.21	0.001	0.29	1.55	19.7	<0.2	<10	550	0.83	0.21	1.39	0.37	16.85	13.7	24
ZZ52299		0.25	0.002	0.29	1.58	22.4	<0.2	<10	400	0.88	0.22	0.87	0.52	25.7	19.4	26
ZZ52300		0.27	0.003	0.23	1.46	18.0	<0.2	<10	380	0.79	0.20	1.13	0.35	20.8	14.3	24
ZZ52301		0.20	0.002	0.28	1.54	19.5	<0.2	<10	550	0.91	0.21	1.62	0.53	19.50	15.3	23
ZZ52302		0.23	0.002	0.26	1.27	14.3	<0.2	<10	440	0.81	0.18	1.60	0.57	17.85	13.1	21
ZZ52303		0.19	0.007	0.25	1.15	16.5	<0.2	10	410	0.81	0.20	1.82	0.59	15.75	11.4	19
ZZ52304		0.32	0.001	0.24	1.17	16.8	<0.2	<10	270	0.75	0.19	1.65	0.41	15.85	10.0	20
ZZ52305		0.20	0.001	0.22	1.15	16.0	<0.2	10	300	0.80	0.21	1.71	0.46	13.30	12.5	19
ZZ52306		0.32	0.003	0.29	1.40	18.9	<0.2	<10	240	0.96	0.24	1.10	0.53	22.0	15.9	24
ZZ52307		0.30	0.001	0.23	1.17	14.2	<0.2	10	310	0.88	0.21	1.40	0.54	16.40	11.9	20
ZZ52308		0.33	0.003	0.23	1.11	13.2	<0.2	10	280	0.87	0.20	1.38	0.66	17.10	11.0	19
ZZ52309		0.30	0.003	0.24	1.25	14.4	<0.2	<10	390	0.89	0.22	1.15	0.64	18.95	11.0	21
ZZ52310		0.28	<0.001	0.22	1.14	13.2	<0.2	10	350	0.83	0.19	1.85	0.53	14.15	10.9	19
ZZ52311		0.28	0.001	0.24	1.20	16.5	<0.2	<10	350	0.82	0.21	1.14	0.57	19.20	13.0	21



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52272		0.72	24.0	4.10	3.44	0.05	0.05	0.26	0.031	0.08	9.7	13.9	0.42	566	1.38	<0.01
ZZ52273		0.98	39.2	2.76	3.29	<0.05	0.09	0.22	0.032	0.09	8.0	17.5	0.51	692	1.10	0.01
ZZ52274		1.20	43.7	2.70	3.14	0.05	0.07	0.14	0.035	0.08	9.0	16.2	0.33	311	1.64	<0.01
ZZ52275		0.79	34.2	3.53	3.17	0.05	0.08	0.38	0.035	0.09	8.3	17.0	0.58	830	1.81	<0.01
ZZ52276		0.80	34.5	3.49	3.49	0.05	0.06	0.31	0.032	0.09	8.8	15.9	0.40	1220	1.69	0.01
ZZ52277		0.71	33.8	2.79	3.59	<0.05	0.07	0.32	0.029	0.08	8.2	13.1	0.36	513	1.10	0.01
ZZ52278		0.87	36.7	3.94	3.62	<0.05	0.06	0.41	0.034	0.10	8.3	15.8	0.41	698	1.56	<0.01
ZZ52279		0.62	22.6	3.19	4.14	<0.05	0.06	0.38	0.030	0.07	11.2	17.5	0.42	533	1.09	0.01
ZZ52280		0.58	30.0	3.50	3.85	0.05	0.07	0.35	0.032	0.06	10.0	15.9	0.41	1040	1.40	<0.01
ZZ52281		0.62	34.7	2.57	3.56	0.05	0.06	0.40	0.033	0.07	8.6	15.9	0.43	237	1.16	0.01
ZZ52282		0.59	29.6	3.33	3.40	<0.05	0.07	0.52	0.031	0.07	7.9	13.5	0.51	574	1.53	<0.01
ZZ52283		0.70	23.1	2.41	2.36	<0.05	0.04	0.13	0.023	0.05	5.6	9.4	0.27	367	4.15	0.01
ZZ52284		0.59	33.6	2.68	3.88	<0.05	0.04	0.31	0.029	0.05	9.1	15.7	0.43	954	1.30	0.01
ZZ52285		0.67	38.9	3.35	3.28	<0.05	0.04	1.46	0.042	0.07	10.6	12.3	0.39	1370	1.84	<0.01
ZZ52286		1.06	24.0	2.87	5.09	<0.05	0.04	0.24	0.031	0.07	12.8	12.3	0.42	651	1.24	0.01
ZZ52287		0.87	41.7	4.28	2.76	0.06	0.05	0.79	0.046	0.08	13.1	9.3	0.24	338	3.17	<0.01
ZZ52288		1.10	36.5	3.91	3.76	0.06	0.06	0.22	0.039	0.09	14.0	16.2	0.41	407	2.91	<0.01
ZZ52289		0.77	42.4	2.56	2.37	<0.05	0.05	0.21	0.040	0.06	10.8	7.4	0.18	621	5.14	<0.01
ZZ52290		0.87	34.0	2.19	2.52	<0.05	0.06	0.21	0.035	0.06	6.4	8.1	0.17	481	8.91	<0.01
ZZ52291		0.91	35.0	2.32	2.19	<0.05	0.04	0.25	0.037	0.05	6.0	4.5	0.14	937	15.95	0.01
ZZ52292		0.86	36.1	2.74	2.45	0.05	0.06	0.25	0.034	0.06	5.1	9.6	0.21	1020	11.35	0.01
ZZ52293		0.90	46.5	3.64	2.83	0.06	0.06	0.52	0.044	0.10	6.3	8.9	0.18	302	3.63	0.01
ZZ52294		0.89	34.9	2.58	3.37	0.06	0.06	0.24	0.040	0.07	5.8	14.1	0.25	619	6.86	0.01
ZZ52295		0.63	29.2	2.52	3.62	0.05	0.03	0.14	0.031	0.07	6.2	10.3	0.20	275	7.63	0.01
ZZ52296		0.72	33.0	2.47	3.87	0.05	0.04	0.20	0.034	0.08	6.7	11.9	0.22	329	8.80	0.02
ZZ52297		0.98	50.7	2.75	3.47	0.07	0.04	0.23	0.043	0.11	8.1	13.3	0.24	333	6.87	0.02
ZZ52298		0.97	42.8	3.29	5.30	0.06	0.09	0.20	0.036	0.10	7.6	25.1	0.61	456	1.49	0.02
ZZ52299		1.10	49.9	3.82	5.47	0.09	0.10	0.48	0.036	0.11	11.2	30.3	0.71	691	1.66	0.02
ZZ52300		0.90	46.7	3.41	4.90	0.08	0.09	0.39	0.031	0.09	9.3	27.1	0.67	444	1.34	0.02
ZZ52301		1.08	43.5	3.39	5.11	0.07	0.09	0.29	0.034	0.12	9.0	27.5	0.62	717	1.30	0.02
ZZ52302		0.96	39.8	2.76	4.21	0.06	0.08	0.27	0.033	0.09	8.3	23.5	0.54	660	1.02	0.02
ZZ52303		0.74	37.5	2.75	3.77	0.06	0.07	0.33	0.030	0.09	7.8	20.1	0.51	528	1.17	0.02
ZZ52304		1.51	32.8	3.05	3.95	0.07	0.08	0.28	0.031	0.09	7.9	22.7	0.84	299	1.31	0.02
ZZ52305		1.40	34.6	2.86	3.92	0.06	0.07	0.23	0.032	0.09	6.4	23.0	0.54	562	1.23	0.02
ZZ52306		1.59	51.2	3.75	4.91	0.08	0.10	0.19	0.035	0.13	9.8	31.8	0.77	414	1.99	0.02
ZZ52307		1.03	33.6	2.91	3.98	0.06	0.08	0.21	0.032	0.10	7.5	24.0	0.53	484	1.33	0.02
ZZ52308		1.26	35.5	2.83	3.82	0.07	0.07	0.20	0.032	0.10	7.8	22.4	0.52	617	1.37	0.02
ZZ52309		1.05	36.6	2.86	4.29	0.06	0.07	0.25	0.034	0.09	8.7	23.8	0.44	370	1.47	0.02
ZZ52310		1.12	31.8	2.81	3.73	0.06	0.09	0.22	0.031	0.11	6.9	22.4	0.48	474	1.43	0.02
ZZ52311		0.83	32.9	3.19	4.08	0.07	0.07	0.23	0.033	0.08	9.0	22.3	0.46	529	1.52	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52272		0.43	26.4	750	30.4	10.6	<0.001	0.04	0.68	4.4	1.2	0.4	29.9	<0.01	0.04	2.5
ZZ52273		0.36	27.9	730	20.6	8.3	0.004	0.13	0.55	4.7	2.6	0.4	49.9	<0.01	0.05	2.5
ZZ52274		0.32	30.6	730	23.2	8.4	0.003	0.05	0.81	5.4	1.6	0.4	30.6	<0.01	0.05	3.3
ZZ52275		0.32	30.4	680	20.7	8.0	0.003	0.08	0.78	5.4	2.3	0.4	46.7	<0.01	0.04	2.5
ZZ52276		0.40	30.7	770	20.0	9.1	0.004	0.08	0.70	5.1	2.5	0.5	42.7	<0.01	0.03	2.3
ZZ52277		0.42	24.4	680	15.3	8.9	<0.001	0.08	0.58	3.8	1.9	0.4	49.0	<0.01	0.04	1.3
ZZ52278		0.40	31.8	610	22.4	8.2	0.001	0.05	0.65	5.7	1.7	0.5	34.0	<0.01	0.05	2.4
ZZ52279		0.67	22.6	930	15.6	8.1	0.001	0.08	0.51	4.0	2.2	0.5	42.3	<0.01	0.03	1.5
ZZ52280		0.36	28.5	1050	22.4	6.6	0.002	0.07	0.68	4.3	2.5	0.4	43.2	<0.01	0.04	1.8
ZZ52281		0.47	26.6	830	21.1	6.8	0.006	0.16	0.67	4.4	3.8	0.5	49.4	<0.01	0.05	1.7
ZZ52282		0.50	25.8	750	19.8	6.7	0.001	0.05	0.65	4.3	1.9	0.4	36.1	<0.01	0.03	2.2
ZZ52283		0.26	25.5	820	14.1	5.5	0.004	0.07	1.43	3.0	2.5	0.3	44.2	<0.01	0.07	1.1
ZZ52284		0.58	23.0	970	13.1	6.7	0.002	0.09	0.71	2.9	2.5	0.4	53.4	<0.01	0.02	0.8
ZZ52285		0.45	28.4	590	20.6	7.9	<0.001	0.07	0.74	4.3	1.7	0.5	50.3	<0.01	0.04	1.3
ZZ52286		0.91	22.9	700	15.4	10.7	<0.001	0.06	0.52	3.6	1.1	0.6	45.6	<0.01	0.03	1.3
ZZ52287		0.44	32.9	1090	19.1	6.7	0.001	0.04	0.75	7.4	1.4	0.5	41.1	<0.01	0.03	3.5
ZZ52288		0.43	82.9	1010	17.7	9.3	0.001	0.03	0.92	6.3	1.7	0.5	48.3	<0.01	0.07	3.9
ZZ52289		0.20	43.1	900	14.6	6.0	0.004	0.06	0.93	6.8	2.1	0.5	76.1	<0.01	0.07	1.6
ZZ52290		0.21	27.6	700	15.1	7.1	0.007	0.06	1.45	4.5	2.0	0.5	64.8	<0.01	0.08	1.5
ZZ52291		0.17	26.8	650	15.5	6.7	0.007	0.07	1.81	4.3	2.6	0.6	61.2	<0.01	0.09	1.2
ZZ52292		0.20	39.1	640	15.7	6.4	0.007	0.05	1.97	4.1	2.2	0.5	43.7	<0.01	0.09	1.4
ZZ52293		0.27	32.6	300	21.6	8.2	0.001	0.03	0.72	6.5	1.2	0.6	35.2	<0.01	0.05	3.8
ZZ52294		0.27	33.5	630	16.3	7.8	0.006	0.05	1.44	4.8	2.8	0.6	48.8	<0.01	0.10	1.7
ZZ52295		0.33	25.6	590	15.5	8.1	0.001	0.03	2.01	3.1	3.0	0.5	36.0	<0.01	0.09	1.8
ZZ52296		0.36	27.0	570	15.2	9.4	0.007	0.04	2.94	3.6	4.0	0.6	35.1	<0.01	0.10	2.1
ZZ52297		0.36	41.2	870	16.6	9.2	0.005	0.03	2.03	4.9	3.2	0.6	37.0	<0.01	0.08	3.1
ZZ52298		0.35	31.5	670	15.5	9.4	0.001	0.06	0.92	5.4	1.2	0.5	49.4	<0.01	0.06	2.0
ZZ52299		0.28	38.2	630	18.7	7.7	<0.001	0.03	1.15	6.8	1.1	0.5	39.1	<0.01	0.07	3.4
ZZ52300		0.27	31.9	660	15.7	6.9	0.001	0.04	0.93	5.3	1.1	0.4	42.9	<0.01	0.06	2.5
ZZ52301		0.33	31.6	760	16.2	8.2	<0.001	0.06	1.10	5.5	1.5	0.5	59.1	<0.01	0.08	1.8
ZZ52302		0.36	29.3	690	15.2	9.5	0.002	0.07	0.90	4.4	1.9	0.4	49.6	<0.01	0.05	1.5
ZZ52303		0.40	26.9	690	16.6	8.4	0.002	0.10	1.08	4.2	2.7	0.4	79.9	<0.01	0.05	1.3
ZZ52304		0.37	25.2	680	16.2	11.2	0.002	0.08	0.83	4.3	2.0	0.4	53.8	<0.01	0.05	1.7
ZZ52305		0.37	25.0	620	17.4	10.7	0.003	0.10	0.79	3.9	2.6	0.4	81.9	<0.01	0.05	1.4
ZZ52306		0.37	38.1	700	18.3	11.3	0.001	0.04	0.88	6.1	1.1	0.5	77.1	<0.01	0.06	3.6
ZZ52307		0.45	27.7	690	16.3	10.4	0.002	0.09	0.65	4.5	1.9	0.5	104.5	<0.01	0.05	2.0
ZZ52308		0.43	26.1	740	17.6	13.5	0.006	0.11	0.55	4.4	2.7	0.5	121.5	<0.01	0.05	1.9
ZZ52309		0.51	26.7	670	17.2	10.5	0.002	0.07	0.67	4.4	2.3	0.5	63.9	<0.01	0.05	1.8
ZZ52310		0.41	25.9	700	14.5	11.3	0.005	0.11	0.74	4.2	2.2	0.4	115.5	<0.01	0.05	1.7
ZZ52311		0.47	29.2	760	17.1	8.4	0.001	0.06	0.71	4.5	1.6	0.4	60.2	<0.01	0.05	1.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52272		0.008	0.11	1.18	38	0.09	10.10	161	1.4
ZZ52273		0.005	0.11	2.05	34	0.06	10.35	126	2.3
ZZ52274		0.005	0.13	1.93	33	0.05	10.70	152	2.2
ZZ52275		0.005	0.12	0.96	36	0.06	10.85	152	2.0
ZZ52276		0.006	0.15	2.03	39	0.08	11.10	145	1.8
ZZ52277		0.005	0.13	1.83	37	0.08	11.55	103	1.7
ZZ52278		0.006	0.17	0.97	41	0.08	10.45	157	1.7
ZZ52279		0.014	0.12	2.54	41	0.11	10.90	143	1.3
ZZ52280		0.008	0.12	1.95	42	0.08	11.65	157	1.8
ZZ52281		0.008	0.14	2.09	38	0.07	10.70	145	1.8
ZZ52282		0.009	0.13	1.59	36	0.08	9.91	160	1.4
ZZ52283		0.006	0.23	1.89	53	0.13	7.55	202	1.3
ZZ52284		0.015	0.11	3.22	43	0.12	9.45	111	1.1
ZZ52285		0.006	0.16	1.34	40	0.08	16.55	134	1.2
ZZ52286		0.021	0.13	2.22	54	0.21	9.71	93	0.8
ZZ52287		0.006	0.13	1.20	37	<0.05	12.45	193	1.6
ZZ52288		0.008	0.99	1.02	55	0.08	13.50	1120	1.9
ZZ52289		<0.005	0.50	1.50	56	0.05	14.25	338	1.8
ZZ52290		<0.005	0.59	1.67	80	0.07	9.68	129	1.9
ZZ52291		<0.005	0.72	1.82	89	0.10	9.62	117	1.6
ZZ52292		<0.005	0.45	1.32	76	0.10	10.50	139	2.0
ZZ52293		<0.005	0.18	1.04	33	0.07	10.05	99	1.8
ZZ52294		<0.005	0.42	1.58	60	0.08	9.89	114	2.0
ZZ52295		0.005	0.33	2.30	81	0.09	6.28	92	0.9
ZZ52296		<0.005	0.39	2.00	77	0.09	7.97	93	1.4
ZZ52297		<0.005	0.34	2.00	58	0.08	13.10	173	1.2
ZZ52298		<0.005	0.15	0.81	47	0.06	8.95	110	2.8
ZZ52299		0.005	0.15	0.78	47	0.07	12.75	118	3.7
ZZ52300		0.005	0.12	0.84	44	0.05	10.45	102	3.0
ZZ52301		0.005	0.15	1.19	43	0.07	12.20	123	2.9
ZZ52302		0.006	0.18	1.25	38	0.08	11.00	176	2.2
ZZ52303		0.006	0.13	1.73	35	0.07	11.55	144	2.3
ZZ52304		0.006	0.21	1.52	37	0.08	10.60	181	2.4
ZZ52305		0.005	0.16	1.72	33	0.07	9.34	140	2.4
ZZ52306		0.006	0.19	0.94	43	0.07	11.80	132	4.0
ZZ52307		0.006	0.12	1.83	36	0.07	10.50	113	2.6
ZZ52308		0.006	0.13	2.08	37	0.06	11.00	125	2.4
ZZ52309		0.008	0.12	4.27	41	0.19	10.55	117	2.1
ZZ52310		0.006	0.13	2.04	34	0.06	9.56	111	2.8
ZZ52311		0.008	0.15	1.96	40	0.08	11.15	128	2.1



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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52312		0.18	<0.001	0.20	1.03	12.7	<0.2	<10	420	0.77	0.18	1.71	0.63	16.25	11.9	19
ZZ52313		0.21	0.002	0.17	0.99	10.8	<0.2	<10	310	1.05	0.22	1.12	0.39	14.20	13.0	16
ZZ52314		0.31	0.003	0.12	1.12	9.1	<0.2	<10	190	0.82	0.24	1.22	0.56	16.10	8.7	18
ZZ52315		0.26	0.002	0.21	1.17	14.8	<0.2	<10	300	0.97	0.23	0.87	0.42	17.40	12.3	21
ZZ52316		0.24	0.001	0.21	1.02	12.7	<0.2	10	520	0.76	0.17	2.32	0.77	13.25	11.6	17
ZZ52317		0.30	0.002	0.20	1.11	18.6	<0.2	<10	470	0.78	0.20	1.61	0.84	18.25	22.4	20
ZZ52318		0.23	0.003	0.21	1.06	19.9	<0.2	<10	410	0.75	0.19	1.59	0.69	13.00	11.6	45
ZZ52319		0.28	0.002	0.18	1.54	12.9	<0.2	<10	390	0.74	0.24	0.40	0.85	27.7	12.3	27
ZZ52320		0.32	0.001	0.29	1.26	25.1	<0.2	<10	210	1.02	0.26	0.37	0.88	24.1	15.7	23
ZZ52321		0.31	0.001	0.17	1.24	16.5	<0.2	<10	330	1.03	0.26	0.70	0.25	22.4	12.7	21
ZZ52322		0.27	0.003	0.47	0.91	15.4	<0.2	<10	450	0.70	0.19	1.24	0.63	13.85	9.4	17
ZZ52323		0.30	0.003	0.35	0.91	17.5	<0.2	<10	250	0.94	0.21	1.33	0.72	14.55	12.2	16
ZZ52324		0.25	0.003	0.27	0.96	6.3	<0.2	<10	240	0.85	0.18	1.21	0.66	15.35	8.9	17
ZZ52325		0.30	0.002	0.30	1.06	15.0	<0.2	<10	280	0.88	0.21	1.17	0.84	17.75	13.6	19
ZZ52326		0.39	0.002	0.26	1.05	14.2	<0.2	<10	300	0.88	0.22	1.17	0.66	17.35	11.5	19
ZZ52327		0.27	<0.001	0.23	1.01	11.4	<0.2	<10	430	0.94	0.20	2.10	0.61	12.55	9.9	16
ZZ52328		0.25	0.001	0.43	1.20	13.9	<0.2	<10	490	0.78	0.25	1.66	0.75	18.20	13.1	20
ZZ52329		0.27	0.002	0.30	1.37	12.9	<0.2	<10	460	0.78	0.27	1.16	0.65	23.0	12.3	24
ZZ52330		0.27	0.007	0.31	1.12	22.9	<0.2	<10	430	0.77	0.25	1.90	0.83	15.45	11.0	20
ZZ52331		0.22	0.005	0.39	0.95	15.5	<0.2	<10	800	0.64	0.21	2.07	1.50	15.55	11.6	18
ZZ52332		0.21	0.004	0.31	0.91	14.7	<0.2	<10	480	0.68	0.21	2.60	1.11	11.80	9.3	16
ZZ52333		0.29	0.001	0.11	1.11	18.1	<0.2	<10	250	0.62	0.28	0.16	0.43	21.7	9.0	19
ZZ52334		0.27	0.003	0.29	0.74	21.3	<0.2	<10	260	0.78	0.25	0.71	1.15	14.75	8.9	18
ZZ52335		0.21	0.007	0.42	1.00	19.8	<0.2	<10	350	0.90	0.29	0.95	1.20	14.30	11.9	21
ZZ52336		0.31	0.001	0.34	1.11	19.4	<0.2	<10	300	1.06	0.42	0.18	0.45	13.85	14.8	18
ZZ52337		0.31	<0.001	0.09	1.10	24.0	<0.2	<10	80	0.83	0.38	0.02	0.21	13.80	11.5	17
ZZ52338		0.29	0.003	1.69	0.86	20.3	<0.2	<10	690	0.72	0.25	0.40	0.39	12.85	6.3	37
ZZ52339		0.36	0.004	0.72	0.60	17.0	<0.2	<10	900	0.40	0.22	0.36	0.27	8.69	4.0	14
ZZ52340		0.30	0.005	0.64	0.86	13.7	<0.2	<10	620	0.77	0.26	0.52	0.34	15.65	7.7	16
ZZ52341		0.26	0.003	0.56	1.30	24.1	<0.2	<10	630	0.89	0.29	0.78	0.92	22.2	13.4	24
ZZ52342		0.23	0.004	0.54	0.99	16.4	<0.2	<10	590	0.73	0.25	1.38	1.09	14.20	9.3	18
ZZ52343		0.27	0.004	0.63	0.83	19.3	<0.2	<10	730	0.64	0.23	1.20	1.50	10.15	14.5	16
ZZ52344		0.33	0.004	0.60	0.87	15.4	<0.2	<10	670	0.61	0.22	1.16	0.82	11.40	7.4	17
ZZ52345		0.23	0.005	0.67	1.00	23.1	<0.2	<10	580	0.69	0.28	0.94	1.34	13.35	17.8	19
ZZ52346		0.31	0.002	0.43	0.51	15.4	<0.2	<10	290	0.53	0.20	0.56	0.62	7.96	4.4	11
ZZ52347		0.33	0.003	0.44	0.59	19.0	<0.2	<10	260	0.49	0.23	0.47	0.54	9.74	6.9	13
ZZ52348		0.28	0.003	0.42	0.46	16.2	<0.2	<10	330	0.45	0.21	0.59	0.92	6.58	14.2	10



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52312		0.77	28.0	3.00	3.54	0.06	0.06	0.19	0.032	0.08	7.7	17.8	0.39	382	1.28	0.02
ZZ52313		1.33	34.0	3.07	3.26	0.06	0.06	0.16	0.037	0.06	6.5	14.7	0.35	412	1.56	0.02
ZZ52314		2.11	19.8	2.38	4.74	0.05	0.04	0.08	0.032	0.07	7.1	12.2	0.19	310	1.16	0.02
ZZ52315		1.17	34.8	3.14	4.14	0.07	0.07	0.21	0.034	0.08	9.1	21.1	0.40	514	1.38	0.01
ZZ52316		0.64	32.8	3.05	3.40	0.06	0.08	0.26	0.029	0.08	6.7	16.4	0.45	1680	1.11	0.02
ZZ52317		0.63	29.6	4.36	3.84	0.09	0.08	0.31	0.033	0.09	8.2	20.8	0.52	1400	1.46	0.02
ZZ52318		0.67	38.1	3.76	3.81	0.06	0.05	0.22	0.037	0.08	6.5	14.8	0.33	421	2.17	0.02
ZZ52319		0.85	16.2	2.97	5.60	0.07	0.04	0.12	0.031	0.07	12.1	15.6	0.37	670	1.18	0.01
ZZ52320		0.83	38.7	4.13	4.10	0.08	0.07	0.31	0.044	0.09	10.1	16.9	0.37	788	3.48	0.01
ZZ52321		0.66	24.5	3.38	4.51	0.07	0.06	0.28	0.034	0.10	9.6	16.4	0.33	442	2.50	0.01
ZZ52322		0.64	28.1	2.26	3.18	0.06	0.06	0.25	0.029	0.07	6.5	13.1	0.30	366	3.96	0.01
ZZ52323		0.94	34.7	3.12	3.07	0.07	0.07	0.19	0.032	0.08	6.9	15.7	0.34	566	2.19	0.01
ZZ52324		0.80	32.4	2.00	3.20	0.06	0.07	0.21	0.030	0.08	7.1	17.4	0.37	339	0.75	0.01
ZZ52325		0.88	41.0	2.88	3.64	0.07	0.08	0.21	0.034	0.09	8.0	18.5	0.40	317	1.57	0.01
ZZ52326		0.76	32.6	3.04	3.57	0.07	0.07	0.27	0.034	0.08	7.8	16.8	0.36	480	1.65	0.01
ZZ52327		0.59	30.1	2.67	3.25	0.06	0.06	0.28	0.029	0.09	7.5	12.5	0.37	689	1.26	0.02
ZZ52328		0.74	32.6	3.26	3.60	0.05	0.07	0.31	0.038	0.09	9.2	16.1	0.39	1080	1.37	0.01
ZZ52329		0.68	36.0	3.09	3.97	0.05	0.08	0.39	0.035	0.09	11.1	20.8	0.55	251	1.16	0.01
ZZ52330		0.75	39.1	3.14	3.56	<0.05	0.05	0.35	0.034	0.09	8.3	16.1	0.62	502	2.17	0.01
ZZ52331		0.76	31.9	2.52	2.93	<0.05	0.05	0.21	0.033	0.07	7.9	14.0	0.58	694	5.18	0.01
ZZ52332		0.64	40.1	2.66	2.68	<0.05	0.06	0.32	0.030	0.07	6.6	10.2	0.32	678	11.00	0.01
ZZ52333		0.79	22.1	3.09	3.69	<0.05	0.04	0.35	0.034	0.07	11.3	16.4	0.23	492	5.45	<0.01
ZZ52334		0.97	41.1	2.35	2.68	<0.05	0.05	0.31	0.042	0.07	7.5	9.9	0.17	324	15.30	<0.01
ZZ52335		0.96	42.0	3.23	3.02	<0.05	0.06	0.30	0.043	0.08	7.2	12.0	0.23	824	9.87	<0.01
ZZ52336		0.97	39.2	4.26	3.23	<0.05	0.02	0.37	0.047	0.08	6.2	15.4	0.21	501	1.60	<0.01
ZZ52337		0.80	28.7	4.39	3.22	<0.05	0.03	2.06	0.050	0.07	6.2	12.0	0.13	342	1.71	<0.01
ZZ52338		0.59	56.7	2.52	2.92	0.05	<0.02	0.29	0.036	0.09	8.3	11.6	0.21	199	6.60	0.01
ZZ52339		0.86	21.9	1.73	2.26	<0.05	0.02	0.27	0.023	0.09	4.5	7.3	0.13	124	10.35	0.01
ZZ52340		0.85	42.4	2.44	2.67	<0.05	0.03	0.25	0.038	0.10	7.1	10.1	0.20	283	4.51	0.01
ZZ52341		1.27	53.2	3.42	4.23	0.06	0.07	0.30	0.042	0.12	11.0	22.3	0.52	522	3.30	0.01
ZZ52342		0.81	40.5	2.54	2.99	<0.05	0.05	0.28	0.034	0.09	7.0	12.8	0.28	415	3.91	0.01
ZZ52343		0.76	40.3	2.53	2.62	<0.05	0.04	0.23	0.035	0.08	5.2	10.0	0.24	1330	9.41	0.01
ZZ52344		0.79	33.9	2.37	2.72	<0.05	0.05	0.25	0.034	0.09	5.8	11.6	0.27	644	6.56	0.01
ZZ52345		1.16	43.8	4.09	3.04	0.05	0.06	0.29	0.040	0.09	6.6	13.0	0.29	960	18.05	0.01
ZZ52346		1.09	29.3	1.88	1.63	<0.05	0.04	0.18	0.028	0.05	4.1	6.3	0.14	432	6.50	<0.01
ZZ52347		1.05	31.1	2.20	2.08	<0.05	0.04	0.20	0.030	0.07	5.0	7.6	0.18	602	10.25	<0.01
ZZ52348		1.15	28.1	5.21	1.52	<0.05	0.04	0.16	0.025	0.05	3.3	4.7	0.12	1340	20.9	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52312		0.47	26.2	770	14.7	8.4	0.001	0.08	0.69	4.1	1.5	0.4	70.0	<0.01	0.05	1.4
ZZ52313		0.32	27.3	730	16.8	8.8	0.002	0.09	0.54	4.6	2.2	0.4	62.7	<0.01	0.04	1.8
ZZ52314		0.53	15.9	470	18.6	11.6	<0.001	0.04	0.40	3.5	0.9	0.6	49.4	<0.01	0.04	2.0
ZZ52315		0.44	28.2	710	18.1	8.7	0.001	0.04	0.62	4.7	1.4	0.5	39.6	<0.01	0.04	2.2
ZZ52316		0.42	25.5	900	13.8	8.4	0.004	0.15	0.62	3.2	4.6	0.4	83.2	<0.01	0.06	1.0
ZZ52317		0.44	30.5	880	17.7	8.2	0.005	0.11	0.62	4.5	3.8	0.5	48.4	<0.01	0.06	2.1
ZZ52318		0.43	38.6	1250	14.2	6.7	0.001	0.07	1.04	4.2	2.2	0.5	44.0	<0.01	0.09	1.4
ZZ52319		0.87	21.4	740	16.9	13.3	<0.001	0.02	0.56	3.8	0.6	0.7	20.5	<0.01	0.04	2.8
ZZ52320		0.44	36.0	750	25.2	9.5	0.001	0.02	1.47	5.7	1.4	0.6	20.9	<0.01	0.06	4.0
ZZ52321		0.68	25.5	610	21.1	8.7	0.001	0.02	0.76	4.8	1.3	0.8	23.0	<0.01	0.04	4.0
ZZ52322		0.41	24.0	680	15.3	6.8	0.008	0.06	1.94	4.0	3.8	0.5	41.8	<0.01	0.06	1.9
ZZ52323		0.37	27.3	730	16.7	8.1	0.012	0.10	1.24	4.5	3.5	0.5	50.6	<0.01	0.05	2.0
ZZ52324		0.38	22.0	640	15.8	6.9	0.007	0.13	0.60	4.4	2.2	0.4	47.4	<0.01	0.03	2.3
ZZ52325		0.41	30.4	710	17.9	8.4	0.006	0.11	0.83	5.2	2.5	0.5	45.5	<0.01	0.04	2.6
ZZ52326		0.40	26.7	750	18.4	8.1	0.005	0.08	0.79	4.8	3.0	0.5	37.8	<0.01	0.04	2.1
ZZ52327		0.42	22.6	770	14.4	7.9	0.003	0.10	0.70	3.3	4.0	0.5	45.6	<0.01	0.05	0.9
ZZ52328		0.44	29.1	800	20.1	8.6	0.006	0.11	0.71	4.5	2.5	0.5	45.6	<0.01	0.05	2.3
ZZ52329		0.54	28.9	930	20.9	8.8	0.004	0.08	0.76	5.6	2.5	0.5	37.3	<0.01	0.04	3.1
ZZ52330		0.51	32.5	830	18.5	7.5	0.003	0.07	1.08	4.3	2.3	0.5	45.9	<0.01	0.06	2.0
ZZ52331		0.34	47.4	1040	14.5	7.8	0.005	0.10	1.07	4.2	2.8	0.4	59.1	<0.01	0.05	1.7
ZZ52332		0.42	40.1	1040	12.9	7.9	0.010	0.16	1.12	2.8	4.3	0.5	73.4	<0.01	0.07	0.8
ZZ52333		0.49	25.5	490	26.0	9.0	<0.001	0.02	0.66	4.4	0.8	0.6	14.3	<0.01	0.03	3.8
ZZ52334		0.27	36.8	640	17.0	7.6	0.008	0.05	1.51	5.2	2.3	0.6	55.5	<0.01	0.09	2.1
ZZ52335		0.29	46.4	830	18.8	8.1	0.008	0.06	1.96	5.2	2.9	0.6	44.2	<0.01	0.07	2.1
ZZ52336		0.27	35.0	320	28.9	9.9	<0.001	0.01	0.55	4.9	0.9	0.7	22.7	<0.01	0.05	4.1
ZZ52337		0.51	25.4	200	29.9	10.7	<0.001	0.01	0.53	4.3	0.7	0.7	12.2	<0.01	0.02	4.9
ZZ52338		0.17	49.0	1090	15.3	7.1	0.005	0.08	1.60	5.0	4.8	0.5	65.1	<0.01	0.10	3.2
ZZ52339		0.22	18.8	440	14.4	7.5	0.003	0.05	2.19	2.9	2.1	0.5	41.5	<0.01	0.11	2.7
ZZ52340		0.32	28.8	810	15.5	8.8	0.003	0.03	1.86	4.2	2.0	0.5	34.0	<0.01	0.06	4.1
ZZ52341		0.46	44.4	820	19.1	8.6	0.001	0.02	1.47	6.4	1.5	0.6	39.1	<0.01	0.11	5.0
ZZ52342		0.39	34.7	810	16.9	8.0	0.006	0.07	1.65	4.2	2.4	0.5	55.0	<0.01	0.06	2.3
ZZ52343		0.25	39.1	710	13.1	7.7	0.017	0.09	1.91	3.6	3.2	0.5	57.0	<0.01	0.06	1.8
ZZ52344		0.28	35.2	710	13.6	8.0	0.014	0.08	1.61	3.9	4.3	0.5	54.1	<0.01	0.07	2.2
ZZ52345		0.30	56.6	810	16.7	9.0	0.013	0.08	1.99	4.9	3.5	0.6	52.3	<0.01	0.09	2.6
ZZ52346		0.13	25.6	480	13.4	5.8	0.012	0.05	1.30	3.5	2.7	0.5	42.0	<0.01	0.10	1.5
ZZ52347		0.15	25.2	560	14.0	6.3	0.008	0.05	1.47	3.5	2.6	0.5	49.2	<0.01	0.08	1.7
ZZ52348		0.10	36.8	550	12.6	5.4	0.012	0.05	1.88	3.5	3.4	0.5	48.2	<0.01	0.09	1.3





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**CERTIFICATE OF ANALYSIS WH12194354**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52312		0.007	0.12	1.43	39	0.09	9.41	118	1.7
ZZ52313		<0.005	0.12	1.59	29	0.06	10.15	98	1.7
ZZ52314		0.008	0.10	2.68	31	0.12	7.83	77	1.1
ZZ52315		0.007	0.11	1.61	34	0.09	12.40	116	1.9
ZZ52316		0.006	0.11	3.44	32	0.07	10.00	116	2.1
ZZ52317		0.006	0.13	1.69	39	0.08	10.90	154	2.4
ZZ52318		0.007	0.15	1.39	57	0.08	11.60	118	1.6
ZZ52319		0.017	0.12	1.23	49	0.21	9.78	120	0.8
ZZ52320		0.006	0.27	1.24	73	0.24	13.00	167	2.0
ZZ52321		0.009	0.13	1.08	38	0.13	9.34	91	2.1
ZZ52322		0.005	0.25	2.26	57	0.08	8.70	91	2.3
ZZ52323		0.005	0.15	1.91	37	0.06	9.72	121	2.2
ZZ52324		0.005	0.11	1.32	26	0.05	9.32	101	2.2
ZZ52325		0.005	0.13	2.12	37	0.07	11.00	125	2.6
ZZ52326		0.005	0.12	2.18	38	0.07	10.60	126	2.1
ZZ52327		<0.005	0.12	4.43	30	0.07	11.80	110	1.7
ZZ52328		0.005	0.11	2.70	41	0.08	10.20	138	2.1
ZZ52329		0.010	0.15	1.57	46	0.10	11.05	161	2.6
ZZ52330		0.006	0.20	1.97	48	0.10	10.70	141	1.6
ZZ52331		0.006	0.32	4.14	52	0.09	10.75	261	1.7
ZZ52332		0.005	0.36	9.06	38	0.07	9.00	315	1.9
ZZ52333		0.008	0.12	1.54	44	0.11	8.89	112	1.0
ZZ52334		<0.005	0.52	2.45	71	0.09	9.82	185	1.9
ZZ52335		<0.005	0.46	2.14	83	0.11	11.60	158	2.1
ZZ52336		<0.005	0.15	0.66	32	0.05	5.55	139	0.9
ZZ52337		<0.005	0.18	0.73	30	0.06	3.20	192	1.3
ZZ52338		<0.005	0.16	2.73	57	0.12	19.75	146	0.6
ZZ52339		<0.005	0.47	1.15	56	0.06	5.47	61	0.9
ZZ52340		0.005	0.23	1.51	50	0.07	11.15	128	1.2
ZZ52341		0.008	0.22	0.93	57	0.08	12.75	157	3.7
ZZ52342		<0.005	0.23	2.31	52	0.06	11.00	132	1.8
ZZ52343		<0.005	0.36	1.92	51	0.07	7.80	111	1.7
ZZ52344		<0.005	0.37	2.00	52	0.06	8.05	133	1.9
ZZ52345		<0.005	0.50	1.96	57	0.09	10.55	187	2.0
ZZ52346		<0.005	0.55	1.24	47	0.06	8.24	87	1.7
ZZ52347		<0.005	0.51	1.04	52	0.22	7.94	92	1.5
ZZ52348		<0.005	0.51	1.07	51	0.09	7.92	128	1.7



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194354**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194355**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 218 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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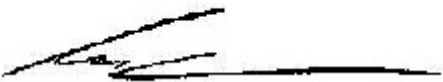
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39501		0.43	0.004	0.13	1.79	13.2	<0.2	<10	250	0.70	0.25	0.32	0.18	34.3	20.2	27
ZZ39502		0.35	0.003	0.11	1.83	12.8	<0.2	<10	120	0.68	0.25	0.41	0.24	33.7	22.8	27
ZZ39503		0.37	0.003	0.12	2.18	12.5	<0.2	<10	120	1.14	0.33	1.78	0.31	38.0	28.5	31
ZZ39504		0.33	0.002	0.05	1.99	297	<0.2	<10	1540	1.20	0.34	0.11	0.29	21.9	13.1	31
ZZ39505		0.29	0.002	0.12	1.49	14.7	<0.2	<10	390	1.92	0.48	0.31	0.37	12.55	15.0	26
ZZ39506		0.24	0.001	0.03	1.76	29.4	<0.2	<10	250	0.79	0.49	0.03	0.49	21.3	21.5	27
ZZ39507		0.30	0.002	0.02	1.51	22.8	<0.2	<10	100	0.93	0.37	0.02	0.29	16.20	16.2	23
ZZ39508		0.32	0.002	0.06	1.84	11.5	<0.2	<10	90	1.35	0.65	0.03	0.13	16.40	19.3	31
ZZ39509		0.31	0.002	0.07	1.44	23.9	<0.2	<10	280	1.41	0.41	0.22	0.33	23.3	13.9	30
ZZ39510		0.32	0.003	0.04	1.86	19.1	<0.2	<10	160	0.63	0.34	0.09	0.19	30.7	9.4	31
ZZ39511		0.24	0.002	0.03	1.57	11.3	<0.2	<10	120	0.36	0.33	0.07	0.19	25.8	5.9	28
ZZ39512		0.25	0.003	0.04	1.62	14.0	<0.2	<10	120	0.44	0.35	0.10	0.29	28.0	7.7	31
ZZ39513		0.28	0.004	0.14	1.48	19.1	<0.2	<10	240	1.04	0.28	0.12	1.07	38.5	19.2	24
ZZ39514		0.22	0.001	0.09	4.08	7.3	<0.2	<10	100	1.02	0.15	0.16	0.35	30.6	47.4	402
ZZ39515		0.31	0.002	0.14	1.58	16.8	<0.2	<10	130	0.75	0.27	0.05	0.46	44.3	14.3	28
ZZ39516		0.30	0.005	0.05	1.15	16.5	<0.2	<10	220	0.62	0.27	0.07	0.37	32.0	7.5	22
ZZ39517		0.35	0.005	0.06	1.46	19.1	<0.2	<10	280	1.11	0.28	0.24	0.82	67.5	20.1	21
ZZ39518		0.32	0.003	0.06	1.58	17.4	<0.2	<10	340	0.87	0.26	0.13	0.42	40.1	16.0	23
ZZ39519		0.37	0.003	0.13	1.74	20.9	<0.2	<10	1140	1.11	0.28	0.24	1.04	35.5	16.4	31
ZZ39520		0.31	0.003	0.17	1.72	16.1	<0.2	<10	870	0.74	0.28	0.15	0.53	29.9	12.2	31
ZZ39521		0.28	0.004	0.57	1.55	17.6	<0.2	<10	2810	0.89	0.28	0.51	1.27	24.4	7.9	32
ZZ39522		0.25	0.006	0.63	0.99	21.4	<0.2	<10	2310	0.65	0.31	0.36	1.54	17.40	6.8	26
ZZ39523		0.30	0.003	0.73	0.56	22.9	<0.2	<10	1560	0.56	0.31	0.35	3.69	11.30	7.9	21
ZZ39524		0.24	0.005	0.28	0.95	25.8	<0.2	<10	2500	0.67	0.37	0.45	2.29	20.6	8.7	25
ZZ39525		0.40	0.005	0.69	1.18	22.2	<0.2	<10	1120	0.65	0.25	0.76	2.59	21.6	8.3	35
ZZ39526		0.35	0.004	0.25	1.11	10.9	<0.2	<10	900	0.43	0.15	0.53	0.67	18.00	5.9	25
ZZ39527		0.26	0.002	0.55	1.52	21.2	<0.2	<10	2530	0.93	0.31	0.76	3.41	23.3	9.0	33
ZZ39528		0.27	0.007	1.70	1.44	22.4	<0.2	<10	2970	1.04	0.28	1.18	7.70	19.50	6.6	36
ZZ39529		0.21	0.006	1.65	1.09	23.7	<0.2	<10	2190	0.96	0.25	1.19	14.15	16.80	8.4	37
ZZ39530		0.27	0.002	1.34	1.26	24.1	<0.2	<10	2770	0.99	0.28	0.40	9.80	15.75	9.5	37
ZZ39531		0.24	0.005	0.89	1.06	21.0	<0.2	<10	2540	0.75	0.27	0.21	4.43	14.45	6.5	32
ZZ39532		0.24	0.004	0.72	1.47	19.2	<0.2	<10	2970	0.80	0.28	0.24	4.47	24.5	9.1	35
ZZ39533		0.29	0.004	1.61	1.36	18.9	<0.2	<10	2560	0.80	0.26	0.40	5.11	22.2	10.7	34
ZZ39534		0.26	0.010	2.98	1.13	37.3	<0.2	<10	1760	1.36	0.33	0.29	7.65	19.30	4.7	32
ZZ39535		0.30	0.007	4.21	1.24	32.3	<0.2	<10	1960	1.04	0.28	0.53	14.40	21.0	4.6	46
ZZ39536		0.21	0.008	1.98	1.41	28.4	<0.2	<10	2350	1.12	0.27	1.85	32.5	16.85	25.8	40
ZZ39537		0.31	0.004	1.91	2.34	36.9	<0.2	<10	4400	1.62	0.26	3.58	30.1	18.45	22.1	48
ZZ39538		0.24	0.005	3.46	1.47	34.2	<0.2	<10	2910	0.89	0.27	5.09	10.65	18.40	16.0	59
ZZ39539		0.26	0.011	6.47	1.07	16.6	<0.2	<10	3380	0.78	0.29	0.26	3.74	10.55	1.7	42
ZZ39540		0.30	0.006	3.89	4.37	118.5	<0.2	<10	5980	3.52	0.20	1.95	128.0	15.30	21.6	97



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ39501		0.85	77.0	4.47	5.78	0.14	0.09	0.09	0.032	0.07	14.9	32.5	0.89	687	0.80	<0.01
ZZ39502		1.01	84.3	4.66	6.07	0.16	0.10	0.12	0.032	0.09	15.0	37.6	0.97	741	0.71	<0.01
ZZ39503		1.79	108.0	5.14	6.58	0.08	0.14	0.15	0.043	0.15	17.7	41.9	1.24	829	0.68	0.01
ZZ39504		2.03	28.2	4.07	5.50	<0.05	0.05	<0.01	0.037	0.08	9.5	28.4	0.55	498	3.15	<0.01
ZZ39505		2.89	42.9	3.31	3.95	0.05	0.11	0.03	0.029	0.08	8.5	30.5	0.55	507	0.94	0.01
ZZ39506		3.80	38.1	4.19	6.29	<0.05	0.02	0.02	0.041	0.06	9.2	39.0	0.53	762	3.37	<0.01
ZZ39507		3.10	28.8	3.71	4.05	<0.05	0.07	0.07	0.036	0.08	6.4	23.5	0.38	779	2.64	<0.01
ZZ39508		4.64	32.6	4.04	6.88	0.05	0.07	0.06	0.039	0.06	6.5	25.4	0.48	769	1.05	<0.01
ZZ39509		4.87	66.0	3.96	4.58	<0.05	<0.02	0.08	0.034	0.08	9.5	23.2	0.41	711	2.91	0.01
ZZ39510		2.61	29.2	2.72	6.55	0.06	<0.02	0.06	0.028	0.05	15.6	19.1	0.46	342	1.70	<0.01
ZZ39511		1.96	11.1	2.73	7.05	<0.05	<0.02	0.04	0.026	0.06	12.9	14.1	0.35	303	1.77	<0.01
ZZ39512		1.63	11.1	3.03	6.83	<0.05	<0.02	0.04	0.021	0.06	14.1	15.9	0.44	414	1.71	<0.01
ZZ39513		1.23	48.2	3.61	3.83	0.07	0.05	0.04	0.040	0.06	17.0	18.8	0.49	584	5.13	<0.01
ZZ39514		2.73	55.8	9.06	12.85	0.08	0.07	0.04	0.054	0.03	12.6	104.0	4.08	760	1.26	0.01
ZZ39515		1.39	36.4	5.10	5.06	0.06	0.02	0.05	0.043	0.08	19.5	15.6	0.40	444	3.76	<0.01
ZZ39516		0.92	25.5	3.18	4.44	<0.05	<0.02	0.07	0.028	0.06	15.1	10.4	0.24	255	3.87	<0.01
ZZ39517		1.04	52.0	4.26	3.78	0.08	0.05	0.06	0.049	0.07	29.6	16.0	0.29	492	4.32	<0.01
ZZ39518		1.79	43.8	4.55	5.17	0.05	0.04	0.05	0.045	0.08	19.4	15.7	0.32	408	4.42	<0.01
ZZ39519		1.40	37.3	3.57	4.85	0.07	0.06	0.06	0.041	0.07	15.9	19.9	0.38	462	8.52	0.01
ZZ39520		1.59	23.1	2.94	5.72	0.05	0.02	0.05	0.032	0.05	14.7	16.9	0.40	514	6.13	0.01
ZZ39521		1.22	24.2	2.77	4.70	<0.05	0.05	0.09	0.037	0.07	12.5	14.1	0.32	362	7.26	<0.01
ZZ39522		1.22	23.9	2.40	4.27	<0.05	<0.02	0.07	0.038	0.07	9.3	7.8	0.15	330	16.20	<0.01
ZZ39523		0.92	30.7	2.12	2.61	<0.05	0.02	0.06	0.034	0.10	6.2	3.1	0.05	766	27.2	<0.01
ZZ39524		0.93	20.2	2.74	5.15	<0.05	<0.02	0.05	0.036	0.08	9.9	8.2	0.14	306	15.35	<0.01
ZZ39525		0.93	29.0	2.62	3.84	0.05	0.10	0.14	0.026	0.07	12.1	13.9	0.40	336	6.20	0.01
ZZ39526		0.45	14.8	2.44	2.56	<0.05	0.05	0.04	0.018	0.06	8.5	11.3	0.39	277	3.64	0.01
ZZ39527		1.30	27.8	2.85	5.51	0.05	0.04	0.04	0.038	0.08	11.0	14.1	0.35	365	9.29	<0.01
ZZ39528		1.16	59.0	2.57	4.28	0.06	0.07	0.17	0.035	0.07	11.6	10.0	0.25	218	10.75	<0.01
ZZ39529		0.95	68.0	2.78	3.31	0.07	0.04	0.09	0.036	0.09	10.9	7.5	0.19	345	16.50	<0.01
ZZ39530		1.11	48.5	3.11	3.76	0.06	0.04	0.06	0.040	0.08	10.9	8.1	0.17	331	16.45	<0.01
ZZ39531		0.95	33.8	3.02	3.92	<0.05	<0.02	0.04	0.032	0.07	8.2	4.7	0.10	208	14.90	<0.01
ZZ39532		0.97	25.9	2.93	4.41	0.06	<0.02	0.06	0.034	0.07	13.1	11.5	0.27	445	10.20	<0.01
ZZ39533		0.74	30.4	3.10	3.81	0.06	<0.02	0.07	0.035	0.08	13.7	8.8	0.21	568	13.85	<0.01
ZZ39534		1.20	118.0	2.67	3.55	0.10	0.05	0.10	0.070	0.14	10.9	7.2	0.13	143	56.3	<0.01
ZZ39535		1.21	165.5	2.76	4.56	0.10	0.02	0.08	0.053	0.11	13.0	5.4	0.12	216	23.6	<0.01
ZZ39536		0.86	51.4	4.33	3.36	0.07	0.08	0.21	0.035	0.07	14.7	9.3	0.43	607	32.4	<0.01
ZZ39537		1.07	54.6	5.46	3.01	0.08	0.09	0.15	0.036	0.07	15.1	7.9	0.29	509	40.6	<0.01
ZZ39538		0.62	56.7	3.71	4.14	0.09	0.07	0.20	0.043	0.09	15.1	7.8	0.36	370	40.4	0.01
ZZ39539		1.44	57.1	1.44	3.55	0.06	<0.02	0.27	0.038	0.08	7.0	2.0	0.04	17	14.15	<0.01
ZZ39540		1.55	181.0	8.05	3.75	0.19	0.18	0.36	0.081	0.07	17.9	4.6	0.10	306	65.9	<0.01

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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39501		0.16	36.4	400	19.4	5.5	<0.001	0.02	0.54	8.2	0.7	0.2	18.3	<0.01	0.07	4.8
ZZ39502		0.14	39.0	580	18.0	5.6	<0.001	0.01	0.51	8.9	0.7	0.3	27.0	<0.01	0.07	5.1
ZZ39503		0.06	43.7	620	28.7	7.4	<0.001	0.02	0.54	10.6	0.8	0.3	72.1	<0.01	0.14	6.0
ZZ39504		0.36	34.3	800	22.1	14.4	<0.001	0.04	0.83	3.7	0.5	0.6	18.5	<0.01	0.10	2.6
ZZ39505		0.41	27.7	410	28.3	10.9	0.001	0.17	0.49	4.5	1.1	0.7	16.3	<0.01	0.08	4.1
ZZ39506		0.60	38.9	660	40.2	12.1	<0.001	0.04	1.05	2.7	0.9	0.6	11.6	<0.01	0.08	1.6
ZZ39507		0.30	29.8	690	30.5	12.2	0.001	0.02	0.98	2.6	0.6	0.4	6.7	<0.01	0.08	2.3
ZZ39508		0.38	27.5	600	33.9	11.5	<0.001	0.02	0.53	3.4	0.9	0.6	8.4	<0.01	0.07	2.7
ZZ39509		0.28	29.5	1070	26.9	12.6	<0.001	0.04	1.02	1.7	0.8	0.5	25.6	<0.01	0.08	0.5
ZZ39510		0.65	21.4	650	17.0	11.5	<0.001	0.01	0.90	1.9	1.1	0.7	11.1	<0.01	0.06	0.7
ZZ39511		0.46	14.7	810	13.8	16.2	<0.001	0.02	0.65	0.9	0.8	0.7	9.9	<0.01	0.09	0.2
ZZ39512		0.56	18.6	830	16.9	11.0	<0.001	0.02	0.80	1.2	0.7	0.6	10.9	<0.01	0.05	0.3
ZZ39513		0.36	47.2	920	17.7	7.4	0.003	0.01	2.30	4.7	1.6	0.5	17.2	<0.01	0.07	2.9
ZZ39514		0.81	220	1880	10.9	4.7	0.001	0.06	0.54	8.7	0.9	0.9	8.6	<0.01	0.01	1.9
ZZ39515		0.42	36.0	1540	20.4	13.1	0.002	0.04	1.15	2.2	1.1	0.7	6.9	<0.01	0.04	0.9
ZZ39516		0.22	21.3	1110	16.3	10.8	<0.001	0.03	1.05	1.0	0.8	0.5	7.7	<0.01	0.09	0.3
ZZ39517		0.33	43.3	1790	22.3	9.6	0.002	0.01	1.28	4.9	2.1	0.6	21.9	<0.01	0.07	2.5
ZZ39518		0.34	34.3	1600	21.9	13.2	0.001	0.02	1.36	3.3	1.2	0.5	13.2	<0.01	0.08	1.4
ZZ39519		0.49	59.4	1500	20.1	12.6	0.001	0.02	2.44	4.8	2.0	0.5	39.2	<0.01	0.08	3.2
ZZ39520		0.53	38.6	1150	15.7	13.4	0.001	0.02	1.51	3.0	1.2	0.6	23.2	<0.01	0.08	1.2
ZZ39521		0.44	35.3	2050	14.0	9.5	0.002	0.09	1.73	2.2	2.4	0.5	36.0	<0.01	0.09	0.7
ZZ39522		0.22	33.2	1790	15.5	9.2	0.001	0.12	3.06	0.7	3.9	0.6	50.6	<0.01	0.13	0.2
ZZ39523		0.10	42.1	2480	19.3	9.6	0.003	0.19	5.05	0.8	4.9	0.6	69.2	<0.01	0.16	0.2
ZZ39524		0.30	52.1	1640	22.0	10.5	0.002	0.10	4.17	0.7	2.5	0.7	58.0	<0.01	0.13	<0.2
ZZ39525		0.47	48.0	1520	13.7	8.5	0.002	0.07	3.02	4.1	2.0	0.4	51.8	<0.01	0.06	1.8
ZZ39526		0.44	23.8	1060	8.5	4.0	0.002	0.03	1.50	2.6	0.7	0.3	24.9	0.01	0.07	2.1
ZZ39527		0.53	49.0	2370	16.4	12.9	0.001	0.10	2.78	1.8	3.5	0.6	58.8	<0.01	0.09	0.7
ZZ39528		0.43	84.0	3310	14.1	9.6	0.004	0.14	3.18	2.4	5.4	0.5	77.5	0.01	0.11	0.9
ZZ39529		0.32	98.2	3800	12.6	8.6	0.003	0.16	3.48	1.9	6.7	0.7	96.7	<0.01	0.11	0.4
ZZ39530		0.29	106.0	3440	12.9	10.6	0.003	0.13	3.11	1.4	6.1	0.7	75.8	<0.01	0.11	0.4
ZZ39531		0.23	80.0	2740	12.1	8.4	0.003	0.14	2.71	0.5	4.6	0.7	62.1	<0.01	0.10	<0.2
ZZ39532		0.27	51.6	2010	13.4	7.9	0.002	0.10	2.36	0.9	3.4	0.7	46.1	<0.01	0.07	0.2
ZZ39533		0.26	77.5	2700	13.4	6.5	0.003	0.12	3.46	1.0	5.0	0.7	70.4	<0.01	0.07	0.2
ZZ39534		0.22	70.4	3410	21.7	10.0	0.004	0.30	12.90	2.3	19.0	1.1	205	<0.01	0.23	0.6
ZZ39535		0.21	48.0	7080	19.0	10.7	0.004	0.19	10.50	0.8	13.9	1.0	147.5	<0.01	0.18	0.3
ZZ39536		0.45	305	2590	15.4	7.1	0.004	0.11	3.74	3.9	6.6	0.7	70.2	<0.01	0.13	0.9
ZZ39537		0.42	407	5600	13.4	7.0	0.003	0.09	5.54	4.2	5.7	0.6	246	0.01	0.14	0.9
ZZ39538		0.41	223	6870	15.1	8.6	0.003	0.10	3.50	4.6	7.1	0.8	368	<0.01	0.12	1.0
ZZ39539		0.20	31.1	3550	16.1	9.1	0.006	0.20	5.59	0.4	9.6	1.0	132.0	<0.01	0.12	<0.2
ZZ39540		0.27	518	>10000	9.3	7.5	0.004	0.09	20.8	9.3	40.2	0.9	667	0.01	0.22	1.9

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	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39501		<0.005	0.07	0.46	44	<0.05	9.44	77	3.5
ZZ39502		<0.005	0.07	0.49	43	<0.05	11.50	83	4.8
ZZ39503		0.005	0.12	0.49	54	<0.05	11.45	93	6.8
ZZ39504		0.006	0.21	0.89	61	0.11	4.46	121	1.6
ZZ39505		0.009	0.13	2.62	27	0.14	14.65	74	3.2
ZZ39506		0.013	0.21	0.84	44	0.14	4.32	126	0.5
ZZ39507		0.006	0.16	0.76	32	0.07	4.46	114	1.8
ZZ39508		0.009	0.11	0.97	32	0.10	6.49	87	1.6
ZZ39509		0.013	0.11	1.68	41	0.11	7.63	118	<0.5
ZZ39510		0.032	0.18	1.18	54	0.29	4.66	81	<0.5
ZZ39511		0.022	0.16	0.69	53	0.26	3.43	69	<0.5
ZZ39512		0.033	0.15	0.81	58	0.29	4.23	79	<0.5
ZZ39513		0.009	0.21	1.25	45	0.09	11.15	192	1.3
ZZ39514		0.025	0.07	0.59	161	0.09	6.13	133	1.5
ZZ39515		0.010	0.20	0.81	56	0.09	6.62	137	0.5
ZZ39516		0.011	0.18	1.14	47	0.14	7.55	96	<0.5
ZZ39517		0.005	0.18	1.55	53	0.08	14.55	142	1.3
ZZ39518		0.007	0.22	0.93	64	0.08	6.90	142	1.0
ZZ39519		0.012	0.37	2.19	87	0.17	13.90	230	1.8
ZZ39520		0.019	0.29	1.81	75	0.21	9.72	152	0.5
ZZ39521		0.012	0.46	3.63	105	0.22	19.60	162	1.2
ZZ39522		0.008	0.81	3.61	135	0.28	11.85	180	<0.5
ZZ39523		<0.005	1.50	4.02	150	0.26	10.10	256	0.5
ZZ39524		0.011	0.62	3.16	152	0.32	9.99	272	<0.5
ZZ39525		0.017	0.38	3.34	127	0.28	14.20	259	2.7
ZZ39526		0.025	0.13	1.43	75	0.10	6.96	139	1.4
ZZ39527		0.015	0.57	4.20	171	0.22	12.65	348	0.8
ZZ39528		0.011	0.66	12.60	201	0.30	31.3	521	1.9
ZZ39529		0.008	0.81	7.14	180	0.31	29.6	680	1.0
ZZ39530		0.007	0.77	6.22	216	0.25	25.6	767	0.8
ZZ39531		0.007	0.62	4.22	167	0.20	12.40	588	<0.5
ZZ39532		0.010	0.47	3.72	139	0.28	22.8	472	<0.5
ZZ39533		0.010	0.50	3.69	145	0.29	25.4	577	<0.5
ZZ39534		0.010	3.06	10.00	363	0.45	28.4	364	1.3
ZZ39535		0.010	1.19	11.20	371	0.27	29.8	345	0.6
ZZ39536		0.010	0.75	5.87	132	0.30	60.1	2150	2.4
ZZ39537		0.010	0.75	7.75	244	0.39	85.1	3690	2.6
ZZ39538		0.010	0.72	7.44	177	0.37	38.2	1490	1.8
ZZ39539		<0.005	0.93	9.85	213	0.27	20.2	158	<0.5
ZZ39540		0.007	0.66	26.1	701	0.45	198.5	5620	6.8



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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39541		0.33	0.004	1.86	1.46	32.7	<0.2	<10	3330	1.29	0.28	1.79	6.65	18.30	16.9	47
ZZ39542		0.28	0.004	1.89	1.72	33.3	<0.2	<10	3750	1.08	0.28	1.66	4.41	17.65	11.8	48
ZZ39543		0.34	0.009	4.12	1.06	41.6	<0.2	10	1460	1.02	0.38	1.89	13.65	18.85	14.2	71
ZZ39544		0.27	0.007	2.68	0.73	23.5	<0.2	10	1930	0.70	0.23	1.86	11.30	11.25	8.7	46
ZZ39545		0.23	0.007	3.44	0.79	21.7	<0.2	10	2050	0.72	0.20	2.69	14.30	10.70	10.9	47
ZZ39546		0.22	0.008	4.03	1.24	25.8	<0.2	10	2750	0.94	0.25	2.02	10.30	13.45	14.7	54
ZZ39547		0.23	0.004	0.77	0.65	17	<0.2	<10	2040	0.57	0.15	12.40	5.11	11.80	11.1	27
ZZ39548		0.31	0.005	0.61	0.68	17	<0.2	<10	1430	0.60	0.16	14.25	7.72	11.15	13.7	26
ZZ39549		0.18	0.007	1.93	1.20	24.4	<0.2	<10	2760	1.02	0.24	1.22	6.76	14.50	11.7	38
ZZ39550		0.26	0.005	0.99	1.46	16.2	<0.2	<10	1010	0.83	0.28	1.18	4.01	19.90	10.2	35
ZZ39551		0.19	0.001	1.04	1.70	25.3	<0.2	<10	1010	1.07	0.30	0.51	2.07	19.55	12.5	39
ZZ39552		0.31	0.003	0.44	0.94	13.4	<0.2	<10	790	0.54	0.17	1.23	2.40	17.10	6.9	23
ZZ39553		0.29	0.005	1.03	0.95	18.6	<0.2	<10	1150	0.77	0.25	1.04	3.13	15.20	8.5	27
ZZ39554		0.31	0.002	0.07	0.89	18.7	<0.2	<10	260	1.16	0.15	0.27	3.65	38.1	28.1	26
ZZ39555		0.35	0.003	0.31	1.35	16.3	<0.2	<10	2090	0.80	0.23	0.51	1.54	29.5	12.8	31
ZZ39556		0.32	0.003	0.19	1.18	13.7	<0.2	<10	1220	0.81	0.29	0.56	1.19	17.30	11.8	23
ZZ39557		0.33	0.004	0.16	1.34	11.5	<0.2	<10	990	0.69	0.29	0.48	0.70	21.0	12.3	25
ZZ39558		0.33	0.003	0.24	1.04	10.6	<0.2	<10	710	1.03	0.28	1.13	0.82	11.90	11.5	19
ZZ39559		0.39	0.002	0.13	1.32	8.8	<0.2	<10	490	1.07	0.40	0.62	0.24	20.4	9.8	23
ZZ39560		0.24	0.002	0.26	1.07	12.3	<0.2	<10	470	0.91	0.40	0.75	0.43	9.71	9.3	19
ZZ39561		0.37	0.003	0.05	1.71	6.5	<0.2	<10	360	1.50	0.47	0.27	0.21	15.25	13.8	30
ZZ39562		0.30	0.004	0.10	1.34	16.0	<0.2	<10	460	1.63	0.52	0.44	0.23	14.20	14.0	20
ZZ39563		0.28	0.002	0.05	1.13	10.2	<0.2	<10	320	0.75	0.42	0.24	0.24	16.30	7.8	19
ZZ39564		0.35	0.002	0.05	1.27	9.8	<0.2	<10	320	0.90	0.41	0.43	0.16	18.15	8.0	20
ZZ39565		0.31	0.004	0.11	1.26	29.2	<0.2	<10	650	0.75	0.24	0.34	1.00	22.7	13.9	25
ZZ39566		0.34	0.005	0.16	0.91	16.4	<0.2	<10	450	0.80	0.29	0.34	0.77	13.60	12.3	16
ZZ39567		0.36	0.005	0.34	1.20	26.5	<0.2	<10	530	0.88	0.27	0.52	1.04	17.60	12.7	26
ZZ39568		0.37	0.002	0.15	1.06	15.2	<0.2	<10	330	0.83	0.24	0.36	0.39	19.25	9.5	21
ZZ39569		0.33	0.002	0.16	0.91	17.7	<0.2	<10	190	1.00	0.30	0.45	0.93	14.40	12.8	19
ZZ39570		0.37	0.004	0.14	1.03	12.9	<0.2	<10	210	0.62	0.22	0.30	0.31	16.05	8.6	19
ZZ39571		0.30	0.004	0.28	1.68	14.5	<0.2	<10	370	1.15	0.31	0.51	0.68	14.90	13.0	29
ZZ39572		0.29	0.003	0.23	1.29	56.2	<0.2	<10	350	0.74	0.21	0.89	0.91	18.50	15.8	24
ZZ39573		0.31	0.006	0.27	1.32	45.6	<0.2	<10	400	0.78	0.21	1.29	0.71	16.70	13.3	23
ZZ39574		0.25	0.003	0.37	1.36	49.4	<0.2	<10	420	1.03	0.25	1.28	1.44	28.2	13.8	28
ZZ39575		0.33	0.003	0.30	1.49	34.0	<0.2	<10	340	0.81	0.25	0.53	0.60	26.4	13.7	29
ZZ39576		0.27	0.003	0.22	1.29	40.3	<0.2	<10	400	0.77	0.24	1.15	0.63	16.75	14.1	23
ZZ39577		0.19	0.003	0.21	1.30	30.3	<0.2	<10	400	0.64	0.23	1.30	0.53	17.05	10.0	20
ZZ39578		0.29	0.006	0.33	1.37	29.2	<0.2	<10	440	0.93	0.26	1.07	0.91	21.2	13.0	24
ZZ39579		0.30	0.004	0.16	1.58	57.4	<0.2	<10	480	1.11	0.25	0.68	0.83	17.20	11.3	26
ZZ39580		0.27	0.005	0.34	1.89	151.0	<0.2	<10	380	1.00	0.28	0.55	0.99	23.8	10.6	28





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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39541		1.22	55.0	4.03	3.99	0.07	0.06	0.22	0.042	0.07	15.0	8.7	0.16	236	22.5	<0.01
ZZ39542		1.10	34.6	3.71	4.52	0.06	0.07	0.14	0.039	0.06	11.8	9.2	0.30	307	20.6	<0.01
ZZ39543		2.33	111.5	4.87	3.13	0.13	0.07	0.24	0.076	0.21	15.1	4.8	0.08	198	43.3	<0.01
ZZ39544		1.17	60.1	2.66	2.20	0.08	0.05	0.22	0.047	0.14	9.6	3.8	0.17	148	22.5	<0.01
ZZ39545		1.07	52.1	2.63	2.16	0.08	0.06	0.19	0.031	0.11	9.7	4.2	0.32	211	22.7	<0.01
ZZ39546		0.90	56.2	3.25	3.07	0.06	0.08	0.25	0.041	0.08	10.7	8.3	0.21	253	21.3	<0.01
ZZ39547		0.63	28.5	2.16	1.78	<0.05	0.05	0.14	0.022	0.05	10.7	5.3	1.39	514	8.03	<0.01
ZZ39548		0.56	30.6	2.25	1.89	<0.05	0.07	0.12	0.027	0.07	11.2	6.0	0.55	586	6.65	<0.01
ZZ39549		0.95	47.7	2.99	2.90	0.05	0.08	0.17	0.036	0.07	11.1	8.2	0.18	419	12.85	<0.01
ZZ39550		1.07	28.2	2.83	3.74	<0.05	0.09	0.14	0.028	0.07	13.9	10.0	0.29	455	5.30	0.01
ZZ39551		1.72	31.1	3.42	4.29	0.05	0.09	0.52	0.043	0.09	13.1	12.5	0.26	341	10.75	<0.01
ZZ39552		0.78	21.7	1.96	2.76	<0.05	0.06	0.04	0.026	0.06	9.9	9.6	0.35	284	5.82	0.01
ZZ39553		0.76	33.7	2.25	2.81	<0.05	0.09	0.12	0.034	0.07	10.3	8.5	0.23	308	9.32	<0.01
ZZ39554		1.85	42.9	5.55	2.25	0.06	0.04	0.01	0.057	0.04	18.0	9.7	0.12	631	8.41	<0.01
ZZ39555		1.30	30.5	3.01	3.85	0.06	0.04	0.02	0.036	0.05	15.9	12.5	0.41	512	5.58	<0.01
ZZ39556		1.28	24.1	2.74	4.02	<0.05	0.04	0.02	0.032	0.05	8.9	13.7	0.26	440	4.21	<0.01
ZZ39557		1.55	18.3	2.65	4.62	<0.05	0.06	0.03	0.035	0.05	10.1	14.6	0.36	551	3.48	<0.01
ZZ39558		1.58	45.2	2.83	3.13	<0.05	0.05	0.04	0.030	0.06	6.4	14.8	0.27	498	3.02	<0.01
ZZ39559		1.35	19.0	2.68	4.28	<0.05	0.05	0.01	0.033	0.07	9.5	17.2	0.38	454	1.33	<0.01
ZZ39560		1.99	30.0	2.84	4.16	<0.05	0.05	0.04	0.035	0.06	5.2	11.8	0.24	377	2.55	<0.01
ZZ39561		2.41	24.0	3.61	5.64	<0.05	0.04	<0.01	0.042	0.07	6.7	20.8	0.46	160	0.88	<0.01
ZZ39562		3.33	48.8	3.71	3.97	<0.05	0.10	<0.01	0.043	0.07	6.9	15.7	0.37	698	1.34	<0.01
ZZ39563		1.88	20.6	2.63	5.69	<0.05	<0.02	<0.01	0.029	0.07	8.1	9.0	0.21	485	1.56	<0.01
ZZ39564		1.97	27.2	2.66	4.64	<0.05	<0.02	<0.01	0.027	0.07	9.4	12.4	0.28	447	1.33	<0.01
ZZ39565		1.23	58.7	3.18	4.05	<0.05	0.03	0.04	0.029	0.06	11.2	20.9	0.43	487	7.57	<0.01
ZZ39566		1.05	37.3	3.17	2.60	<0.05	0.02	0.06	0.040	0.08	6.7	12.0	0.24	281	3.63	<0.01
ZZ39567		1.15	45.2	3.40	3.46	<0.05	0.06	0.14	0.039	0.08	8.9	17.7	0.37	529	5.06	<0.01
ZZ39568		0.79	29.1	2.81	3.33	<0.05	0.05	0.04	0.033	0.06	10.3	16.5	0.38	257	2.54	<0.01
ZZ39569		1.11	44.7	3.74	2.54	<0.05	0.04	0.02	0.043	0.07	6.1	12.9	0.38	562	3.60	<0.01
ZZ39570		0.96	30.4	2.71	3.13	<0.05	0.05	0.02	0.029	0.06	7.8	18.5	0.41	212	1.75	<0.01
ZZ39571		1.45	41.9	3.67	4.76	<0.05	0.08	0.10	0.046	0.10	7.7	34.6	0.54	366	1.87	0.01
ZZ39572		0.99	38.3	3.43	3.89	<0.05	0.06	0.22	0.032	0.08	9.1	21.7	0.58	920	1.82	<0.01
ZZ39573		1.02	43.6	3.23	3.85	<0.05	0.05	0.22	0.033	0.09	8.8	21.5	0.53	460	1.55	<0.01
ZZ39574		0.92	51.6	3.44	4.19	0.05	0.07	0.28	0.042	0.07	15.8	27.3	0.53	844	2.94	<0.01
ZZ39575		1.11	50.8	3.92	4.39	0.05	0.08	0.17	0.033	0.09	12.8	25.3	0.76	467	1.86	<0.01
ZZ39576		1.01	39.9	3.20	3.74	<0.05	0.06	0.22	0.032	0.07	8.4	20.4	0.52	571	1.46	<0.01
ZZ39577		0.98	41.6	2.72	4.59	<0.05	0.06	0.13	0.029	0.09	8.7	19.9	0.42	369	1.44	<0.01
ZZ39578		1.20	60.0	2.99	4.03	<0.05	0.08	0.30	0.034	0.09	11.1	21.7	0.53	317	1.09	<0.01
ZZ39579		0.97	35.1	3.77	4.75	<0.05	0.05	0.15	0.046	0.06	6.8	26.1	0.37	453	2.17	0.01
ZZ39580		1.93	31.1	3.88	5.34	0.05	0.04	0.17	0.053	0.06	12.8	25.6	0.24	376	2.53	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39541		0.46	272	3830	14.4	8.2	0.004	0.11	4.79	4.7	5.4	0.8	125.0	<0.01	0.12	1.0
ZZ39542		0.55	146.0	3860	13.9	7.7	0.003	0.10	3.16	4.0	5.6	0.8	165.5	<0.01	0.11	1.2
ZZ39543		0.16	237	8810	24.0	14.7	0.006	0.32	9.49	8.0	15.7	1.0	428	<0.01	0.48	2.6
ZZ39544		0.12	148.0	5190	14.6	9.6	0.004	0.20	4.98	4.3	8.2	0.7	261	<0.01	0.19	1.6
ZZ39545		0.15	153.5	5080	12.3	7.8	0.005	0.16	4.30	3.8	8.3	0.6	201	<0.01	0.14	1.3
ZZ39546		0.32	177.5	3830	14.0	7.4	0.002	0.15	3.74	4.2	8.4	0.6	149.5	<0.01	0.13	1.0
ZZ39547		0.22	111.5	2090	10.4	4.8	0.002	0.08	2.73	2.8	3.7	0.4	124.0	<0.01	0.12	0.7
ZZ39548		0.22	142.5	1650	11.2	4.8	0.002	0.07	2.82	2.9	2.9	0.4	94.7	<0.01	0.13	0.7
ZZ39549		0.26	118.5	3110	14.6	7.6	0.002	0.13	3.74	3.1	5.4	0.5	115.0	<0.01	0.14	0.8
ZZ39550		0.47	69.9	2310	16.2	9.9	<0.001	0.10	2.12	3.1	2.0	0.5	46.7	<0.01	0.08	1.0
ZZ39551		0.46	94.0	2460	18.4	11.7	0.002	0.11	3.35	3.6	3.9	0.6	67.1	<0.01	0.12	1.2
ZZ39552		0.42	36.3	1800	9.0	6.9	0.002	0.10	1.85	2.2	2.2	0.3	38.7	<0.01	0.08	0.7
ZZ39553		0.35	58.8	1830	13.3	7.1	0.003	0.12	2.74	3.0	3.8	0.4	51.7	<0.01	0.06	0.9
ZZ39554		0.27	66.4	1930	17.5	5.7	0.001	0.04	1.63	8.8	2.4	0.3	66.7	<0.01	0.05	3.6
ZZ39555		0.68	53.7	1200	14.8	7.8	<0.001	0.04	1.79	5.5	2.0	0.5	38.5	<0.01	0.08	3.3
ZZ39556		0.52	32.3	680	17.8	8.8	0.001	0.03	1.14	4.0	1.4	0.4	26.0	<0.01	0.08	1.7
ZZ39557		0.58	26.5	740	18.3	10.4	0.002	0.03	0.77	4.0	1.6	0.5	20.2	0.01	0.04	2.1
ZZ39558		0.40	27.7	630	17.2	13.8	0.003	0.07	0.96	4.0	2.9	0.4	27.0	<0.01	0.05	1.1
ZZ39559		0.51	21.1	620	23.1	12.6	0.001	0.04	0.44	3.1	1.2	0.5	17.0	<0.01	0.02	1.5
ZZ39560		0.36	19.7	570	18.8	10.4	0.001	0.05	0.64	3.7	1.6	0.5	21.5	<0.01	0.06	1.7
ZZ39561		0.41	32.8	330	26.6	9.6	0.001	0.01	0.28	5.6	0.9	0.6	13.3	<0.01	0.04	5.1
ZZ39562		0.21	25.7	410	30.2	13.5	0.001	0.03	0.37	5.0	1.7	0.4	21.6	<0.01	0.04	2.6
ZZ39563		0.51	14.5	480	20.2	14.9	<0.001	0.02	0.38	2.7	0.9	0.6	15.5	<0.01	0.04	1.8
ZZ39564		0.40	15.3	530	16.4	11.4	<0.001	0.02	0.39	2.7	0.9	0.5	18.4	<0.01	0.04	1.3
ZZ39565		0.43	39.8	810	15.1	7.5	0.001	0.02	1.18	4.4	1.1	0.4	32.1	<0.01	0.06	2.7
ZZ39566		0.19	42.3	790	16.5	7.1	0.001	0.03	0.88	5.3	1.6	0.4	38.3	<0.01	0.06	2.8
ZZ39567		0.32	45.0	750	16.7	8.4	0.001	0.02	1.16	6.3	1.9	0.4	34.5	<0.01	0.06	3.2
ZZ39568		0.41	30.1	680	12.6	6.0	0.001	0.01	0.76	4.4	1.4	0.3	23.7	<0.01	0.04	3.5
ZZ39569		0.17	41.9	730	19.3	7.1	<0.001	0.03	1.13	5.2	1.8	0.4	28.3	<0.01	0.07	2.6
ZZ39570		0.23	28.3	640	11.7	6.4	<0.001	0.02	0.78	4.1	1.5	0.3	22.8	<0.01	0.06	3.2
ZZ39571		0.30	48.0	750	15.8	12.1	<0.001	0.04	0.78	7.6	1.8	0.5	30.5	<0.01	0.07	2.9
ZZ39572		0.21	37.2	780	18.2	7.0	0.001	0.04	0.71	5.2	2.2	0.3	31.6	<0.01	0.08	2.4
ZZ39573		0.23	36.2	780	15.8	8.0	0.001	0.05	0.68	5.2	2.2	0.3	36.3	<0.01	0.07	1.8
ZZ39574		0.45	43.0	600	26.3	8.5	0.001	0.04	1.14	8.5	2.5	0.4	28.9	<0.01	0.07	2.9
ZZ39575		0.23	40.1	590	21.8	6.4	<0.001	0.02	0.89	7.1	1.6	0.3	24.0	<0.01	0.09	3.6
ZZ39576		0.21	34.7	810	18.4	7.6	0.001	0.05	0.66	4.9	2.0	0.3	36.4	<0.01	0.06	1.6
ZZ39577		0.38	27.9	620	15.9	8.3	0.001	0.05	0.63	4.4	1.7	0.4	34.8	<0.01	0.07	1.5
ZZ39578		0.31	39.4	890	21.3	8.8	0.001	0.05	0.77	6.8	2.7	0.3	37.9	<0.01	0.08	2.5
ZZ39579		0.50	32.1	500	24.7	8.5	<0.001	0.03	0.90	4.9	1.1	0.5	23.4	<0.01	0.05	2.2
ZZ39580		0.42	32.2	600	20.7	13.6	0.001	0.03	1.06	5.6	1.1	0.6	19.0	<0.01	0.10	2.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39541		0.007	0.90	6.69	196	0.25	40.8	1500	1.7
ZZ39542		0.013	0.66	6.54	169	0.28	30.3	829	1.6
ZZ39543		0.007	2.51	17.45	246	0.47	44.1	1380	3.0
ZZ39544		0.005	1.34	7.03	151	0.31	28.4	942	2.1
ZZ39545		0.005	1.33	7.02	135	0.24	29.4	1040	2.1
ZZ39546		0.008	1.06	9.57	148	0.30	33.9	1090	2.6
ZZ39547		0.008	0.36	7.20	99	0.19	27.4	600	1.5
ZZ39548		0.007	0.45	5.69	99	0.12	29.3	799	2.0
ZZ39549		0.008	0.73	9.05	179	0.38	33.0	639	2.2
ZZ39550		0.012	0.51	6.02	178	0.22	26.8	350	2.2
ZZ39551		0.009	1.00	7.14	261	0.25	27.8	494	2.5
ZZ39552		0.016	0.30	3.73	81	0.22	14.65	211	1.7
ZZ39553		0.009	0.46	5.36	126	0.19	20.9	279	2.2
ZZ39554		0.007	0.60	1.98	75	0.06	14.10	249	0.9
ZZ39555		0.023	0.30	2.20	76	0.21	17.40	198	1.3
ZZ39556		0.011	0.19	2.67	54	0.15	7.58	141	1.1
ZZ39557		0.011	0.19	2.01	53	0.21	7.30	116	1.5
ZZ39558		0.008	0.18	2.65	41	0.09	9.60	132	1.3
ZZ39559		0.012	0.11	2.29	33	0.14	7.08	71	1.1
ZZ39560		0.006	0.33	3.13	37	0.09	6.50	109	1.3
ZZ39561		0.007	0.11	1.23	31	0.09	7.40	118	1.5
ZZ39562		<0.005	0.10	2.15	25	0.05	9.90	98	2.4
ZZ39563		0.010	0.11	0.74	39	0.11	4.31	55	<0.5
ZZ39564		0.009	0.11	0.88	39	0.14	4.57	56	<0.5
ZZ39565		0.014	0.47	1.12	63	0.17	11.00	132	0.8
ZZ39566		<0.005	0.22	1.37	37	0.06	9.98	141	0.8
ZZ39567		0.007	0.27	1.64	47	0.10	11.80	149	2.1
ZZ39568		0.012	0.13	1.17	37	0.12	8.64	111	1.5
ZZ39569		<0.005	0.25	1.40	35	0.05	9.69	159	1.2
ZZ39570		0.007	0.13	0.87	33	<0.05	7.88	113	1.5
ZZ39571		0.005	0.18	1.34	40	0.07	14.45	191	1.9
ZZ39572		<0.005	0.17	1.18	46	0.08	12.40	143	1.7
ZZ39573		<0.005	0.17	1.17	43	0.06	13.10	138	1.6
ZZ39574		0.006	0.26	1.16	76	0.09	23.3	156	1.9
ZZ39575		0.007	0.19	1.23	57	0.06	13.80	145	2.4
ZZ39576		<0.005	0.15	1.24	45	0.06	13.50	126	1.5
ZZ39577		0.006	0.16	1.02	50	0.09	9.90	92	1.6
ZZ39578		0.005	0.18	1.59	45	0.10	17.25	133	2.3
ZZ39579		0.005	0.18	0.94	69	0.10	7.61	123	1.3
ZZ39580		<0.005	0.36	1.16	67	0.16	15.70	128	1.1



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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39581		0.35	0.001	0.07	1.24	34.7	<0.2	<10	200	0.45	0.27	0.19	0.60	21.3	10.2	23
ZZ39582		0.26	0.005	0.58	1.04	30.5	<0.2	<10	820	0.76	0.20	0.45	0.76	20.9	10.2	23
ZZ39583		0.28	0.006	2.06	1.24	69.2	<0.2	<10	1910	1.19	0.21	0.87	0.58	18.65	8.6	37
ZZ39584		0.34	0.006	1.60	1.01	60.6	<0.2	<10	1320	0.89	0.23	0.70	0.76	18.20	10.6	28
ZZ39585		0.32	0.004	0.39	2.18	24.6	<0.2	<10	410	1.12	0.28	0.81	0.45	28.5	17.9	33
ZZ39586		0.29	0.004	0.31	1.64	23.6	<0.2	<10	560	0.92	0.24	1.52	0.67	21.9	11.9	26
ZZ39587		0.29	0.005	0.71	1.09	47.6	<0.2	<10	880	0.81	0.23	1.43	0.84	19.45	9.8	25
ZZ39588		0.33	0.005	0.73	1.07	54.3	<0.2	<10	490	0.80	0.23	2.45	0.70	18.15	10.2	23
ZZ39589		0.26	0.002	0.21	0.89	39.3	<0.2	<10	560	0.43	0.18	0.59	0.17	9.55	4.2	21
ZZ39590		0.26	0.006	0.99	1.99	28.1	<0.2	<10	250	0.86	0.22	0.15	0.71	23.6	10.7	33
ZZ39591		0.29	0.009	1.98	1.39	33.6	<0.2	<10	2120	1.23	0.21	1.59	1.18	20.8	8.3	35
ZZ39592		0.18	0.011	0.51	1.54	43.6	<0.2	<10	660	1.24	0.27	5.11	1.73	21.0	6.0	34
ZZ39593		0.30	0.001	0.15	0.25	15.3	<0.2	<10	110	0.11	0.14	0.03	0.11	2.76	2.9	10
ZZ39594		0.37	0.006	1.99	0.43	20.1	<0.2	<10	1340	0.36	0.20	0.54	0.16	4.48	1.2	24
ZZ39595		0.25	0.007	1.63	0.21	7.4	<0.2	10	850	0.22	0.20	0.43	0.16	2.22	0.2	12
ZZ39596		0.38	0.003	1.10	0.33	21.1	<0.2	10	970	0.41	0.19	0.19	0.14	2.05	1.7	9
ZZ39597		0.29	0.003	0.29	1.36	18.7	<0.2	<10	500	0.64	0.22	1.28	0.86	19.40	13.8	23
ZZ39598		0.36	0.006	0.63	1.20	23.8	<0.2	<10	880	0.90	0.23	0.51	0.86	20.7	13.1	25
ZZ39599		0.42	0.005	0.60	1.54	27.2	<0.2	<10	520	1.02	0.25	0.51	0.67	23.4	12.2	31
ZZ39600		0.30	0.002	0.99	1.40	34.7	<0.2	<10	1010	1.44	0.26	0.54	1.93	33.1	13.7	32
ZZ39601		0.41	0.003	0.17	2.23	18.1	<0.2	<10	360	1.04	0.29	0.97	0.63	38.1	27.3	33
ZZ39602		0.36	0.004	0.17	1.96	16.8	<0.2	<10	380	0.79	0.24	0.33	0.62	34.5	19.7	30
ZZ39603		0.27	0.003	0.45	1.20	16.3	<0.2	<10	700	0.68	0.24	0.52	0.74	22.8	10.4	22
ZZ39604		0.28	0.003	0.25	2.00	8.5	<0.2	<10	350	0.74	0.22	1.16	1.04	23.5	11.2	31
ZZ39605		0.30	0.004	0.29	1.62	11.4	<0.2	<10	290	0.77	0.25	0.99	0.72	25.2	13.8	28
ZZ39606		0.27	0.003	0.75	1.06	9.2	<0.2	<10	230	0.35	0.23	0.12	0.55	23.1	5.2	16
ZZ39607		0.33	0.002	0.56	1.75	21.1	<0.2	<10	210	0.63	0.28	0.05	0.62	24.4	12.8	27
ZZ39608		0.25	0.003	0.43	1.96	18.0	<0.2	<10	170	0.61	0.28	0.03	0.38	20.6	11.9	27
ZZ39609		0.34	0.002	0.27	1.85	14.7	<0.2	<10	290	0.92	0.28	0.17	0.28	37.4	19.1	28
ZZ39610		0.34	0.004	0.81	1.79	13.4	<0.2	<10	350	0.77	0.29	0.15	0.92	48.2	10.4	26
ZZ39611		0.33	0.003	0.24	1.93	9.5	<0.2	<10	200	0.79	0.24	0.31	0.25	33.9	18.6	29
ZZ39612		0.27	0.005	0.39	0.91	15.3	<0.2	<10	290	0.82	0.24	0.44	0.45	18.70	9.3	13
ZZ39613		0.29	0.005	0.51	1.18	32.9	<0.2	<10	450	0.60	0.22	0.61	0.86	20.1	12.7	18
ZZ39614		0.39	0.004	0.25	1.84	95.9	<0.2	<10	270	0.96	0.25	0.41	1.12	30.6	22.4	28
ZZ39615		0.38	0.003	0.14	1.96	560	<0.2	<10	150	0.99	0.29	0.59	0.27	30.6	23.4	28
ZZ39616		0.35	0.003	0.61	1.93	82.8	<0.2	<10	140	1.03	0.30	0.50	0.23	28.9	18.4	28
ZZ39617		0.37	0.001	0.22	1.94	166.0	<0.2	<10	130	0.93	0.30	0.56	0.31	33.7	20.4	27
ZZ39618		0.32	0.001	0.09	1.91	158.0	<0.2	10	130	0.95	0.25	1.09	0.28	25.5	17.1	26
ZZ39619		0.32	<0.001	0.15	1.74	94.4	<0.2	10	130	0.84	0.23	1.31	0.29	22.8	17.2	24
ZZ39620		0.39	0.003	0.14	1.74	71.9	<0.2	<10	160	0.77	0.24	1.04	0.30	22.8	17.2	24



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39581		1.32	17.0	3.20	5.24	<0.05	0.02	0.10	0.035	0.07	7.1	19.3	0.30	709	2.28	<0.01
ZZ39582		1.23	31.9	2.91	3.75	0.05	0.05	0.29	0.041	0.06	9.3	18.1	0.38	312	2.68	0.01
ZZ39583		0.74	36.7	3.11	2.96	0.07	0.05	0.27	0.038	0.06	13.0	9.8	0.18	313	3.79	<0.01
ZZ39584		1.30	61.5	2.99	3.31	0.06	0.06	0.27	0.045	0.09	9.7	15.8	0.38	202	3.67	0.01
ZZ39585		1.49	100.5	4.81	6.42	0.07	0.10	0.20	0.046	0.12	14.9	37.1	1.07	430	1.46	0.01
ZZ39586		1.04	51.2	3.55	5.15	0.06	0.09	0.18	0.029	0.10	12.0	30.7	0.66	396	1.23	0.01
ZZ39587		0.83	41.0	2.62	3.90	0.06	0.05	0.48	0.036	0.05	14.8	15.8	0.33	392	2.13	0.01
ZZ39588		0.84	41.6	3.09	3.47	0.06	0.05	0.56	0.036	0.05	12.7	13.8	0.41	322	3.00	0.01
ZZ39589		0.99	12.0	1.78	3.24	<0.05	0.02	0.06	0.026	0.04	5.2	7.1	0.14	115	2.53	0.01
ZZ39590		1.58	18.3	2.98	4.22	<0.05	0.06	0.15	0.036	0.05	10.7	13.4	0.26	206	2.50	0.01
ZZ39591		1.05	42.8	2.79	3.36	0.06	0.06	0.32	0.038	0.06	14.3	11.4	0.14	208	3.79	<0.01
ZZ39592		0.95	18.4	2.83	4.01	0.07	0.05	0.07	0.046	0.04	33.1	7.1	0.15	242	2.83	0.01
ZZ39593		1.45	21.7	1.54	1.72	<0.05	<0.02	0.04	0.021	0.05	1.4	0.5	0.01	28	2.64	<0.01
ZZ39594		0.62	43.3	1.35	1.78	0.05	<0.02	0.11	0.039	0.10	2.8	2.9	0.03	20	4.26	0.01
ZZ39595		1.04	13.1	0.63	1.01	<0.05	0.08	0.14	0.012	0.11	1.4	1.4	0.02	<5	1.90	0.01
ZZ39596		0.83	25.0	1.93	1.03	<0.05	0.03	0.11	0.029	0.15	1.1	2.9	0.02	25	5.59	0.01
ZZ39597		0.96	53.3	3.46	4.18	0.05	0.07	0.12	0.033	0.10	8.2	22.0	0.74	505	2.01	0.01
ZZ39598		1.23	68.1	3.52	3.95	0.05	0.08	0.23	0.040	0.10	9.6	18.4	0.56	394	4.22	0.01
ZZ39599		0.86	58.2	3.80	4.46	0.05	0.10	0.24	0.039	0.09	11.5	25.3	0.57	371	3.39	0.01
ZZ39600		1.07	79.2	4.02	4.09	0.09	0.06	0.28	0.043	0.07	19.3	18.4	0.45	816	7.65	0.01
ZZ39601		2.08	106.0	4.80	7.82	0.08	0.23	0.13	0.038	0.18	17.7	46.5	1.19	703	1.78	<0.01
ZZ39602		1.27	85.2	4.66	7.12	0.07	0.13	0.10	0.034	0.11	16.6	35.3	1.13	172	2.70	<0.01
ZZ39603		1.06	49.5	3.03	4.16	0.05	0.07	0.14	0.030	0.07	11.1	21.3	0.47	262	2.92	<0.01
ZZ39604		0.50	49.6	4.02	6.41	0.05	0.13	0.27	0.042	0.07	11.3	37.4	0.97	277	0.63	<0.01
ZZ39605		0.66	47.2	3.38	5.12	0.05	0.09	0.20	0.034	0.06	11.2	28.7	0.67	329	1.29	0.01
ZZ39606		1.00	18.4	2.11	5.44	<0.05	0.02	0.06	0.019	0.05	10.4	13.8	0.22	182	1.23	<0.01
ZZ39607		1.16	37.4	4.00	6.52	<0.05	0.08	0.05	0.037	0.07	11.2	37.0	0.53	329	1.84	<0.01
ZZ39608		1.48	34.9	4.26	7.30	<0.05	0.06	0.04	0.034	0.08	10.2	40.9	0.47	261	1.81	<0.01
ZZ39609		1.23	63.0	4.03	6.68	0.07	0.08	0.14	0.032	0.10	17.2	33.4	0.67	700	0.99	<0.01
ZZ39610		1.69	46.8	2.76	6.06	0.11	0.09	0.17	0.034	0.08	19.8	24.3	0.42	191	2.76	0.01
ZZ39611		1.13	50.8	3.81	6.46	0.07	0.12	0.13	0.033	0.11	15.1	45.0	0.87	477	0.97	<0.01
ZZ39612		1.30	58.3	2.33	3.18	<0.05	0.04	0.13	0.034	0.11	8.0	13.0	0.25	114	4.51	<0.01
ZZ39613		3.02	51.2	2.59	4.21	<0.05	0.07	0.19	0.035	0.10	8.8	23.8	0.46	341	2.45	<0.01
ZZ39614		1.68	87.1	4.26	6.26	0.06	0.12	0.13	0.038	0.10	13.9	41.0	0.93	511	1.53	<0.01
ZZ39615		2.76	68.5	4.57	6.32	0.06	0.16	0.13	0.034	0.13	14.3	49.5	0.91	403	3.42	0.01
ZZ39616		1.53	80.0	4.54	6.37	0.06	0.14	0.12	0.038	0.15	13.9	43.1	0.92	578	1.01	0.01
ZZ39617		1.44	72.5	4.38	6.38	0.07	0.15	0.11	0.034	0.14	15.4	45.0	0.93	665	2.71	<0.01
ZZ39618		1.40	67.6	4.00	6.19	0.05	0.15	0.08	0.035	0.15	11.9	45.3	0.89	847	3.56	0.01
ZZ39619		1.17	61.4	3.66	5.48	0.06	0.12	0.10	0.031	0.12	10.5	41.2	0.80	499	2.88	0.01
ZZ39620		1.15	59.9	3.54	5.65	0.06	0.12	0.12	0.031	0.11	10.8	39.2	0.79	512	3.43	<0.01

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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39581		0.57	21.9	560	21.7	14.5	0.001	0.02	0.88	2.9	0.4	0.5	13.6	<0.01	0.04	2.2
ZZ39582		0.42	40.5	1070	15.6	8.1	0.001	0.03	1.21	5.2	1.8	0.4	37.5	<0.01	0.07	2.9
ZZ39583		0.14	51.6	1130	17.3	6.9	0.001	0.08	1.44	7.0	5.5	0.4	69.5	<0.01	0.15	1.5
ZZ39584		0.14	57.4	950	16.9	8.5	0.002	0.05	1.51	7.6	4.5	0.4	64.9	<0.01	0.08	2.8
ZZ39585		0.14	45.7	430	19.8	9.0	0.001	0.03	0.85	10.3	2.7	0.3	36.8	<0.01	0.10	3.0
ZZ39586		0.19	36.9	780	15.5	10.3	0.002	0.06	0.71	5.1	2.6	0.3	38.0	<0.01	0.05	1.5
ZZ39587		0.32	38.2	790	20.6	8.0	0.002	0.05	1.09	4.8	2.2	0.4	38.8	<0.01	0.12	1.2
ZZ39588		0.25	45.1	600	27.5	7.2	0.001	0.03	1.30	6.3	2.5	0.4	50.2	<0.01	0.08	2.2
ZZ39589		0.34	21.4	370	13.8	8.4	<0.001	0.02	0.81	2.0	1.0	0.4	34.4	<0.01	0.07	1.2
ZZ39590		0.92	40.0	1070	13.1	9.9	0.002	0.02	0.92	3.6	2.4	0.5	22.3	0.01	0.07	3.3
ZZ39591		0.30	53.5	920	14.7	8.3	0.001	0.07	1.51	6.6	3.9	0.5	50.3	<0.01	0.08	2.0
ZZ39592		0.28	33.4	650	20.1	4.8	<0.001	0.04	1.17	5.3	2.7	0.5	47.0	<0.01	0.20	1.2
ZZ39593		0.08	27.3	270	6.0	7.2	0.001	0.02	1.39	1.6	1.6	0.3	5.7	<0.01	0.13	0.6
ZZ39594		<0.05	26.1	870	11.9	7.2	0.004	0.13	1.14	3.4	8.7	0.4	167.0	<0.01	0.17	0.9
ZZ39595		<0.05	19.5	200	11.9	8.3	0.008	0.17	0.69	2.0	5.8	0.4	69.6	<0.01	0.19	1.2
ZZ39596		<0.05	22.1	600	12.2	9.5	0.006	0.36	1.10	5.0	5.7	0.4	183.0	<0.01	0.16	0.9
ZZ39597		0.12	36.4	700	16.3	7.5	0.003	0.08	1.07	5.2	1.9	0.3	65.3	<0.01	0.08	2.1
ZZ39598		0.10	52.0	640	16.1	7.9	0.002	0.04	1.96	7.4	2.3	0.4	48.8	<0.01	0.07	3.4
ZZ39599		0.17	47.4	370	17.4	7.8	0.001	0.03	1.62	8.3	2.2	0.4	33.6	<0.01	0.08	3.7
ZZ39600		0.22	59.8	590	23.6	8.7	0.001	0.04	2.71	10.6	4.4	0.4	35.9	<0.01	0.07	4.0
ZZ39601		0.07	49.0	780	20.7	10.5	0.002	0.01	1.07	9.9	1.3	0.8	58.4	<0.01	0.09	6.6
ZZ39602		0.09	41.6	710	18.4	7.4	0.004	0.02	0.95	7.8	3.2	0.4	29.6	<0.01	0.08	5.2
ZZ39603		0.43	35.5	610	14.2	7.7	0.002	0.03	1.43	5.7	1.7	0.6	40.3	<0.01	0.04	3.8
ZZ39604		0.24	28.2	1010	15.6	7.1	0.001	0.09	0.53	8.6	2.4	0.5	63.1	<0.01	0.04	3.1
ZZ39605		0.63	30.7	980	16.0	7.3	0.002	0.08	0.93	6.0	5.4	0.5	55.7	<0.01	0.05	2.6
ZZ39606		0.82	11.9	260	11.4	11.7	0.001	0.01	0.43	2.6	1.0	0.7	12.1	<0.01	0.03	3.0
ZZ39607		0.66	27.8	290	17.9	12.1	<0.001	0.01	0.85	3.8	1.6	0.7	10.6	<0.01	0.07	4.2
ZZ39608		0.46	26.1	410	18.4	13.2	0.001	0.02	1.62	3.6	0.7	0.8	8.1	<0.01	0.07	3.5
ZZ39609		0.38	34.9	450	20.4	9.3	<0.001	0.01	0.71	8.8	1.6	0.6	19.8	<0.01	0.07	6.2
ZZ39610		1.05	32.2	730	16.7	15.3	0.001	0.01	1.11	5.8	4.6	0.7	18.8	<0.01	0.04	6.3
ZZ39611		0.26	35.3	820	16.4	8.4	0.001	0.02	0.50	6.8	3.0	0.7	28.7	<0.01	0.06	5.1
ZZ39612		0.18	30.3	570	17.1	9.7	0.001	0.03	1.78	5.4	3.0	0.6	31.5	<0.01	0.07	3.7
ZZ39613		0.20	39.2	680	14.8	10.1	0.001	0.05	1.31	6.0	2.5	0.5	53.6	<0.01	0.06	3.7
ZZ39614		0.18	49.0	770	16.5	7.4	0.001	0.02	0.97	10.0	1.7	0.5	33.9	<0.01	0.10	5.2
ZZ39615		0.16	44.5	650	18.5	9.3	0.001	0.03	0.51	8.4	1.2	0.5	38.7	<0.01	0.08	5.3
ZZ39616		0.19	38.7	700	20.1	8.2	0.001	0.02	0.63	9.4	1.3	0.5	39.4	<0.01	0.06	5.9
ZZ39617		0.17	38.7	750	18.8	8.7	0.001	0.02	0.60	7.9	1.4	0.4	40.7	<0.01	0.07	5.6
ZZ39618		0.17	38.3	690	16.2	10.3	0.001	0.07	0.67	7.4	1.8	0.4	53.1	<0.01	0.06	3.1
ZZ39619		0.17	35.0	680	14.8	8.2	0.001	0.07	0.59	6.0	1.7	0.4	66.8	<0.01	0.06	2.9
ZZ39620		0.18	34.5	640	14.0	8.3	0.001	0.05	0.56	6.7	1.3	0.4	54.0	<0.01	0.06	3.1

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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39581		0.010	0.19	0.67	67	0.14	4.16	140	0.7
ZZ39582		0.010	0.18	1.32	48	0.10	12.55	147	1.6
ZZ39583		<0.005	0.19	2.37	73	0.08	34.0	158	1.3
ZZ39584		<0.005	0.21	1.47	56	0.07	24.4	164	2.5
ZZ39585		<0.005	0.12	0.79	52	0.05	16.75	102	3.2
ZZ39586		0.005	0.09	2.29	40	0.05	14.65	178	2.9
ZZ39587		0.008	0.13	1.30	52	0.16	25.6	117	1.7
ZZ39588		0.005	0.21	1.01	50	0.19	25.6	152	1.7
ZZ39589		0.007	0.14	1.24	56	0.10	4.95	80	0.7
ZZ39590		0.022	0.17	1.50	53	0.24	8.48	157	2.5
ZZ39591		<0.005	0.23	1.66	80	0.09	38.0	166	1.8
ZZ39592		<0.005	0.20	1.17	91	0.11	49.2	112	1.3
ZZ39593		<0.005	0.11	0.30	42	<0.05	1.79	110	<0.5
ZZ39594		<0.005	0.11	2.00	45	<0.05	13.10	76	<0.5
ZZ39595		<0.005	0.17	0.68	20	<0.05	5.63	15	3.6
ZZ39596		<0.005	0.22	2.09	27	<0.05	9.18	47	1.6
ZZ39597		0.005	0.15	1.69	50	0.05	9.57	146	2.3
ZZ39598		<0.005	0.19	1.04	75	<0.05	14.40	192	3.5
ZZ39599		<0.005	0.18	1.02	91	0.05	16.30	155	3.2
ZZ39600		<0.005	0.34	2.20	178	0.09	32.2	212	2.5
ZZ39601		0.006	0.14	0.67	60	0.09	13.30	124	10.0
ZZ39602		<0.005	0.13	1.03	57	<0.05	10.70	120	4.3
ZZ39603		0.013	0.18	1.29	49	0.12	11.30	150	2.0
ZZ39604		0.005	0.09	3.40	53	<0.05	14.05	159	3.3
ZZ39605		0.016	0.09	4.06	49	0.17	10.70	84	1.8
ZZ39606		0.017	0.12	0.61	49	0.20	4.64	65	0.6
ZZ39607		0.014	0.14	0.64	60	0.13	3.41	100	2.7
ZZ39608		0.007	0.19	0.42	62	0.09	2.62	141	1.9
ZZ39609		0.013	0.12	0.94	46	0.09	13.80	73	3.3
ZZ39610		0.026	0.37	2.35	52	0.23	33.3	107	2.5
ZZ39611		0.008	0.11	0.91	40	0.06	10.65	82	3.0
ZZ39612		<0.005	0.25	2.09	46	<0.05	12.90	136	1.1
ZZ39613		<0.005	0.37	1.77	40	<0.05	11.15	151	2.3
ZZ39614		0.006	0.20	1.03	50	<0.05	15.50	160	4.6
ZZ39615		0.005	0.17	1.32	40	<0.05	12.05	132	5.0
ZZ39616		0.007	0.10	0.71	42	0.05	12.30	92	5.4
ZZ39617		0.006	0.09	1.10	39	<0.05	11.70	96	4.7
ZZ39618		<0.005	0.08	2.10	37	<0.05	12.05	118	3.8
ZZ39619		<0.005	0.09	2.58	35	<0.05	10.05	114	3.5
ZZ39620		0.005	0.09	2.13	36	<0.05	10.65	108	3.4



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39621		0.27	0.003	0.15	1.75	64.6	<0.2	<10	120	0.82	0.24	1.09	0.27	25.0	17.1	25
ZZ39622		0.32	0.003	0.15	1.90	25.2	<0.2	<10	200	0.88	0.22	0.77	0.54	29.4	19.6	28
ZZ39623		0.25	0.003	0.24	1.48	13.0	<0.2	<10	170	0.86	0.27	0.89	0.36	19.05	16.5	20
ZZ39624		0.29	0.001	0.21	0.29	14.9	<0.2	<10	60	0.19	0.41	0.09	0.03	5.49	2.4	6
ZZ39625		0.37	0.004	0.16	1.74	17.5	<0.2	<10	130	1.12	0.32	0.55	0.13	32.0	19.4	27
ZZ39626		0.35	0.004	0.14	1.96	20.3	<0.2	<10	150	0.96	0.28	0.56	0.25	30.6	23.5	30
ZZ39627		0.31	0.003	0.11	2.38	11.3	<0.2	<10	140	0.95	0.30	1.10	0.18	32.7	26.3	32
ZZ39628		0.36	0.004	0.12	2.42	10.4	<0.2	<10	120	1.00	0.26	0.39	0.17	37.4	20.5	35
ZZ39629		0.33	0.003	0.13	1.94	60.5	<0.2	<10	180	1.02	0.28	0.41	0.52	27.2	18.8	30
ZZ39630		0.36	0.005	0.09	1.51	57.1	<0.2	<10	140	1.09	0.32	1.11	0.37	25.7	25.0	23
ZZ39631		0.30	0.003	0.12	1.68	20.7	<0.2	<10	200	0.94	0.24	0.75	0.39	22.6	14.0	25
ZZ39632		0.29	0.003	0.14	1.56	61.8	<0.2	10	170	1.01	0.27	0.86	0.46	20.7	15.6	25
ZZ39633		0.40	0.004	0.13	2.27	11.8	<0.2	<10	200	1.01	0.27	0.74	0.29	32.5	26.4	32
ZZ39634		0.44	0.005	0.12	2.20	11.2	<0.2	<10	210	0.98	0.27	0.44	0.10	34.4	15.2	31
ZZ39635		0.23	0.005	0.13	2.15	6.8	<0.2	<10	180	0.97	0.30	1.03	0.48	36.1	22.6	37
ZZ39636		0.24	0.003	0.13	1.92	12.4	<0.2	<10	200	0.86	0.25	0.37	0.20	31.3	13.8	28
ZZ39637		0.25	0.004	0.13	1.87	16.0	<0.2	<10	110	1.04	0.28	0.84	0.20	27.9	16.4	27
ZZ39638		0.37	0.004	0.08	2.43	13.4	<0.2	<10	120	0.97	0.27	2.58	0.25	30.2	26.5	34
ZZ39639		0.27	0.002	0.17	1.49	31.1	<0.2	<10	120	0.81	0.27	0.07	0.69	22.0	17.4	25
ZZ39640		0.26	0.002	0.06	1.24	28.2	<0.2	<10	160	0.56	0.27	0.10	1.14	15.05	11.8	24
ZZ39641		0.33	0.004	0.37	1.25	22.8	<0.2	<10	240	0.96	0.24	0.27	1.00	21.6	17.3	22
ZZ39642		0.29	0.002	0.10	1.92	23.3	<0.2	<10	220	1.05	0.25	0.13	0.56	25.9	16.3	27
ZZ39643		0.30	0.002	0.11	1.42	11.4	<0.2	<10	80	0.71	0.33	0.03	0.12	14.90	10.5	18
ZZ39644		0.29	0.005	0.52	1.41	16.5	<0.2	<10	530	0.89	0.22	0.99	0.90	22.6	10.9	23
ZZ39645		0.33	0.003	0.24	1.34	19.3	<0.2	<10	260	0.71	0.22	0.47	0.84	29.4	13.1	26
ZZ39646		0.34	0.004	0.30	1.47	18.8	<0.2	<10	580	0.81	0.26	0.34	0.56	25.4	11.3	28
ZZ39647		0.22	0.003	0.07	2.29	19.8	<0.2	<10	250	0.95	0.25	0.08	0.42	20.1	14.2	31
ZZ39648		0.30	0.003	0.87	1.22	31.8	<0.2	<10	2000	0.76	0.25	4.44	3.51	16.40	17.6	28
ZZ39649		0.23	0.004	1.69	0.98	70.1	<0.2	<10	400	0.62	0.21	3.96	9.46	18.90	51.5	48
ZZ39650		0.24	0.003	0.35	0.78	16.4	<0.2	<10	1250	0.58	0.19	2.54	2.48	13.25	10.7	23
ZZ39651		0.19	0.002	0.71	1.31	37.0	<0.2	<10	680	0.92	0.28	4.96	2.94	14.45	36.9	29
ZZ39652		0.20	0.002	0.10	2.71	22.7	<0.2	<10	1370	1.13	0.26	0.48	0.93	19.50	13.9	37
ZZ39653		0.19	0.003	0.52	1.63	33.2	<0.2	<10	1530	0.99	0.27	5.81	2.81	16.50	19.4	30
ZZ39654		0.23	0.002	0.16	2.09	22.1	<0.2	<10	1730	1.01	0.31	2.41	2.24	21.8	12.7	38
ZZ39655		0.31	0.005	1.31	1.06	25.9	<0.2	<10	2570	0.90	0.24	1.41	3.76	14.45	10.8	28
ZZ39656		0.26	0.004	0.23	1.58	8.9	<0.2	<10	690	1.62	0.42	0.66	0.11	14.95	9.8	25
ZZ39657		0.25	0.001	0.05	2.35	9.1	<0.2	<10	130	1.91	0.47	0.04	0.16	13.05	18.7	35
ZZ39658		0.27	0.002	0.05	2.30	10.3	<0.2	<10	110	1.37	0.48	0.03	0.35	11.85	17.7	34
ZZ39659		0.25	0.001	0.05	2.17	6.9	<0.2	<10	90	1.07	0.43	0.01	0.21	10.85	13.9	30
ZZ39660		0.24	0.001	0.09	2.27	19.0	<0.2	<10	130	0.95	0.29	0.06	0.17	21.2	15.4	31

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





ALS Canada Ltd.  
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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39621		1.03	72.5	3.77	5.49	0.05	0.13	0.10	0.030	0.11	11.9	39.3	0.84	648	3.01	<0.01
ZZ39622		1.11	65.6	3.58	6.43	0.06	0.14	0.11	0.032	0.10	13.0	46.4	0.95	453	4.99	<0.01
ZZ39623		2.05	46.7	3.54	4.34	0.05	0.09	0.11	0.038	0.08	7.3	33.1	0.56	601	3.46	<0.01
ZZ39624		1.76	25.5	4.35	1.92	<0.05	0.10	0.10	0.038	0.07	2.4	2.1	0.04	30	1.12	<0.01
ZZ39625		1.01	64.9	4.49	5.47	0.08	0.11	0.06	0.043	0.07	14.9	34.7	0.64	663	0.84	<0.01
ZZ39626		1.35	98.5	4.86	6.48	0.08	0.14	0.10	0.039	0.10	14.6	40.6	1.12	725	0.85	<0.01
ZZ39627		1.71	97.3	5.04	7.17	0.08	0.28	0.12	0.034	0.16	15.7	44.5	1.28	732	0.55	<0.01
ZZ39628		1.59	109.0	5.01	7.83	0.07	0.18	0.12	0.037	0.14	18.0	45.7	1.31	531	0.57	<0.01
ZZ39629		1.61	61.5	4.38	6.53	0.06	0.11	0.20	0.040	0.11	11.6	41.2	0.80	287	2.84	<0.01
ZZ39630		1.21	89.6	4.74	5.07	0.06	0.11	0.24	0.046	0.09	9.9	30.8	0.93	679	1.30	<0.01
ZZ39631		2.24	48.1	2.73	5.64	<0.05	0.10	0.21	0.034	0.10	9.4	37.1	0.70	111	1.52	<0.01
ZZ39632		2.95	61.2	3.27	5.21	<0.05	0.11	0.22	0.038	0.11	9.2	33.6	0.72	222	0.89	0.01
ZZ39633		1.50	112.5	4.89	7.15	0.07	0.15	0.12	0.033	0.13	15.9	40.1	1.17	888	0.62	<0.01
ZZ39634		1.27	87.1	4.69	6.84	0.07	0.06	0.12	0.033	0.09	18.8	36.8	0.97	508	0.65	0.01
ZZ39635		1.34	121.0	4.33	6.86	0.07	0.07	0.17	0.045	0.08	16.7	36.2	1.27	311	0.45	0.01
ZZ39636		1.90	47.0	3.92	5.55	0.05	0.04	0.06	0.036	0.05	13.4	30.4	0.70	559	0.82	0.01
ZZ39637		1.24	66.7	5.05	4.99	0.07	0.08	0.08	0.042	0.06	15.1	38.8	0.67	770	0.82	0.01
ZZ39638		2.40	106.5	5.33	7.28	0.06	0.18	0.16	0.037	0.18	14.8	46.9	1.51	778	0.59	0.01
ZZ39639		1.53	40.1	4.20	3.98	<0.05	0.04	0.10	0.042	0.06	8.5	24.5	0.43	969	3.12	<0.01
ZZ39640		1.34	29.8	4.69	4.19	<0.05	0.04	0.07	0.032	0.07	6.3	15.6	0.39	963	3.78	<0.01
ZZ39641		1.53	51.2	3.76	3.34	0.05	0.03	0.14	0.033	0.08	10.3	19.2	0.41	829	3.61	<0.01
ZZ39642		1.49	39.1	3.75	4.60	0.05	0.07	0.08	0.036	0.07	11.3	30.2	0.52	585	4.65	<0.01
ZZ39643		5.09	24.4	3.37	5.33	<0.05	0.02	0.03	0.026	0.06	7.1	14.4	0.21	737	1.78	<0.01
ZZ39644		1.06	45.4	3.08	4.00	<0.05	0.07	0.18	0.031	0.07	12.6	18.3	0.41	466	2.69	0.01
ZZ39645		0.95	44.0	3.37	4.14	0.05	0.05	0.14	0.030	0.07	14.2	21.1	0.56	522	2.11	0.01
ZZ39646		1.10	49.9	3.50	4.55	0.05	0.02	0.13	0.034	0.09	13.3	20.3	0.51	360	3.90	0.01
ZZ39647		1.50	35.2	3.83	4.93	<0.05	0.07	0.11	0.039	0.07	9.7	24.7	0.49	335	4.09	<0.01
ZZ39648		0.74	39.0	3.74	3.49	0.06	0.03	0.19	0.037	0.08	16.4	11.4	0.31	882	34.4	<0.01
ZZ39649		0.95	48.9	2.63	3.26	0.08	0.06	0.36	0.030	0.10	15.9	8.1	0.21	456	26.4	0.01
ZZ39650		0.76	30.3	2.89	2.36	<0.05	0.06	0.14	0.031	0.07	8.1	7.9	0.26	280	5.50	0.01
ZZ39651		0.59	34.6	6.35	3.42	0.07	0.11	0.27	0.039	0.07	11.6	7.6	0.17	538	48.3	0.01
ZZ39652		1.16	38.6	3.91	7.24	<0.05	0.06	0.06	0.045	0.04	10.0	24.0	0.55	358	3.71	0.01
ZZ39653		0.75	28.6	3.93	4.45	0.06	0.07	0.11	0.036	0.07	18.0	9.3	0.28	737	12.20	<0.01
ZZ39654		0.84	19.6	3.65	6.08	0.06	0.05	0.06	0.043	0.06	18.8	12.7	0.36	441	5.88	0.01
ZZ39655		0.89	52.7	2.94	3.20	<0.05	0.07	0.25	0.035	0.07	9.6	11.1	0.27	402	10.25	<0.01
ZZ39656		3.69	37.8	3.16	6.91	<0.05	0.04	0.06	0.029	0.11	7.2	16.0	0.41	368	1.51	0.01
ZZ39657		3.32	34.5	4.72	9.66	<0.05	0.05	0.04	0.039	0.09	5.3	31.5	0.51	1440	0.93	0.01
ZZ39658		4.01	26.0	4.26	11.15	<0.05	0.04	0.05	0.047	0.09	5.2	28.4	0.57	908	1.41	0.01
ZZ39659		4.12	32.4	4.27	7.87	<0.05	0.04	0.04	0.036	0.10	5.0	28.2	0.43	776	0.84	0.01
ZZ39660		1.77	44.5	4.61	6.08	<0.05	0.04	0.06	0.040	0.10	10.2	36.9	0.65	439	1.25	0.01

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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39621		0.19	34.6	680	15.7	7.4	0.001	0.05	0.62	7.0	1.3	0.4	56.7	<0.01	0.06	3.4
ZZ39622		0.25	41.9	710	14.0	8.4	0.003	0.08	0.62	7.9	1.7	0.4	44.9	<0.01	0.06	3.8
ZZ39623		0.20	40.0	560	22.8	9.4	0.002	0.05	0.62	6.0	2.4	0.5	43.1	<0.01	0.07	2.7
ZZ39624		0.06	7.8	230	46.5	6.3	0.001	0.03	0.53	1.9	1.2	0.6	10.6	<0.01	0.06	2.5
ZZ39625		0.26	37.8	530	29.6	7.2	<0.001	0.02	0.67	12.5	1.5	0.7	45.7	<0.01	0.07	6.5
ZZ39626		0.14	38.3	570	22.4	6.8	0.001	0.03	0.53	11.6	1.6	0.5	46.1	<0.01	0.06	4.9
ZZ39627		0.05	40.4	720	20.6	7.9	0.001	0.02	0.49	8.8	0.6	0.3	58.0	<0.01	0.07	6.6
ZZ39628		0.12	40.2	710	16.8	7.9	<0.001	0.02	0.46	10.0	0.7	0.4	29.5	<0.01	0.07	5.6
ZZ39629		0.30	35.4	630	21.5	12.1	0.002	0.04	0.47	9.4	4.9	0.6	31.9	<0.01	0.08	5.4
ZZ39630		0.15	34.4	610	25.3	7.2	0.001	0.02	0.53	11.3	1.6	0.5	44.0	<0.01	0.09	5.2
ZZ39631		0.28	28.0	590	21.0	11.9	0.006	0.16	0.24	8.8	2.6	0.5	49.2	<0.01	0.04	3.9
ZZ39632		0.24	31.3	700	21.2	10.5	0.002	0.11	0.45	8.4	1.5	0.5	47.1	<0.01	0.06	3.2
ZZ39633		0.14	41.1	770	22.0	7.5	0.001	0.03	0.61	9.5	1.0	0.4	45.0	<0.01	0.08	5.1
ZZ39634		0.23	33.3	420	18.7	8.1	<0.001	0.01	0.43	8.7	1.1	0.4	31.3	<0.01	0.11	4.7
ZZ39635		0.20	39.6	800	19.9	5.6	<0.001	0.06	0.40	11.9	1.7	0.4	45.1	<0.01	0.14	3.7
ZZ39636		0.49	27.2	400	15.9	8.8	<0.001	0.02	0.47	5.7	0.9	0.5	23.9	<0.01	0.06	3.3
ZZ39637		0.13	30.4	670	26.1	8.6	0.001	0.04	0.52	9.1	1.1	0.5	46.8	<0.01	0.07	3.4
ZZ39638		0.05	43.1	690	18.8	8.7	<0.001	0.08	0.48	9.1	0.8	0.3	101.5	<0.01	0.09	5.3
ZZ39639		0.30	31.9	860	27.5	9.5	<0.001	0.02	1.47	3.6	1.8	0.4	11.9	<0.01	0.07	2.4
ZZ39640		0.32	25.3	880	26.4	11.0	<0.001	0.02	1.09	3.2	1.0	0.4	12.6	<0.01	0.08	2.0
ZZ39641		0.23	40.1	890	21.8	7.8	0.001	0.01	1.78	5.8	1.8	0.4	24.5	<0.01	0.08	3.2
ZZ39642		0.37	45.0	460	20.8	10.9	0.001	0.01	1.12	4.3	1.0	0.5	15.4	<0.01	0.08	3.3
ZZ39643		0.64	14.2	760	33.7	12.7	<0.001	0.03	0.71	1.9	0.8	0.6	6.3	<0.01	0.05	1.4
ZZ39644		0.37	33.6	1040	16.1	9.5	0.003	0.05	1.17	5.2	2.2	0.5	40.5	<0.01	0.07	1.8
ZZ39645		0.57	35.5	970	14.5	7.0	0.002	0.01	0.90	5.4	1.5	0.4	31.8	<0.01	0.06	4.2
ZZ39646		0.37	42.2	790	15.9	8.0	0.001	0.01	1.44	5.2	1.3	0.5	34.8	<0.01	0.07	3.6
ZZ39647		0.55	36.8	440	19.2	10.7	0.001	0.02	1.40	3.8	1.4	0.5	18.9	<0.01	0.06	3.7
ZZ39648		0.25	126.5	1970	18.1	6.6	0.004	0.09	2.76	3.1	4.1	0.5	42.6	<0.01	0.20	0.8
ZZ39649		0.28	242	5400	14.9	8.6	0.015	0.11	6.07	2.1	8.2	0.5	52.9	<0.01	0.19	0.8
ZZ39650		0.31	58.0	1290	13.2	6.7	0.003	0.09	1.37	3.3	1.8	0.5	49.2	<0.01	0.09	1.3
ZZ39651		0.24	194.5	1970	16.4	6.1	0.004	0.09	4.38	2.7	4.9	0.6	31.0	<0.01	0.23	1.1
ZZ39652		0.33	35.0	250	18.9	6.8	<0.001	0.01	0.74	6.8	0.8	0.8	16.4	<0.01	0.09	3.4
ZZ39653		0.42	219	1380	18.1	6.6	0.001	0.09	2.39	2.6	4.0	0.6	35.0	<0.01	0.16	0.7
ZZ39654		0.54	68.0	1030	18.9	7.2	0.001	0.05	1.06	4.6	2.0	0.8	30.1	<0.01	0.09	1.1
ZZ39655		0.24	85.3	2050	16.8	8.7	0.011	0.14	3.06	3.9	5.0	0.6	78.7	<0.01	0.13	1.0
ZZ39656		0.36	18.9	490	24.8	16.2	<0.001	0.04	0.32	4.0	0.9	0.8	117.5	<0.01	0.07	2.6
ZZ39657		0.28	28.6	620	31.1	15.4	<0.001	0.02	0.26	3.8	0.6	1.1	10.2	<0.01	0.04	2.6
ZZ39658		0.46	25.1	350	25.2	11.8	<0.001	0.01	0.25	3.5	0.6	1.7	6.1	<0.01	0.03	2.5
ZZ39659		0.39	22.3	480	13.1	16.6	<0.001	0.01	0.31	3.9	0.7	0.8	6.4	<0.01	0.05	3.0
ZZ39660		0.44	33.9	420	18.6	13.1	<0.001	0.02	0.54	4.0	0.9	0.5	8.1	<0.01	0.06	3.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39621		0.005	0.08	2.62	38	<0.05	12.60	99	3.6
ZZ39622		0.006	0.12	3.68	45	<0.05	11.85	157	3.9
ZZ39623		0.005	0.16	5.27	33	0.05	8.50	174	2.1
ZZ39624		<0.005	0.11	0.27	14	<0.05	2.02	36	4.4
ZZ39625		0.005	0.11	1.30	35	0.05	23.9	80	2.7
ZZ39626		0.006	0.11	0.82	48	<0.05	16.05	82	4.0
ZZ39627		0.005	0.09	0.41	50	<0.05	10.60	91	9.5
ZZ39628		0.006	0.07	0.50	57	<0.05	11.95	90	5.7
ZZ39629		0.005	0.23	5.57	45	<0.05	12.10	134	3.5
ZZ39630		<0.005	0.17	0.81	36	<0.05	15.45	99	3.6
ZZ39631		0.005	0.20	2.50	37	<0.05	11.20	119	2.8
ZZ39632		0.005	0.31	1.54	38	<0.05	13.45	124	2.8
ZZ39633		0.006	0.08	0.72	52	<0.05	12.65	82	4.5
ZZ39634		0.010	0.08	0.63	55	0.07	13.70	71	2.2
ZZ39635		0.008	0.06	1.85	67	<0.05	15.95	93	2.9
ZZ39636		0.013	0.10	0.91	48	0.11	8.16	59	1.2
ZZ39637		<0.005	0.09	1.16	37	<0.05	17.80	71	2.1
ZZ39638		0.006	0.09	0.41	56	<0.05	11.15	92	8.4
ZZ39639		0.006	0.20	0.79	49	0.10	6.48	180	1.4
ZZ39640		0.007	0.14	0.97	50	0.09	4.43	136	1.0
ZZ39641		0.008	0.18	0.94	41	0.09	12.30	183	1.2
ZZ39642		0.008	0.20	1.00	56	0.13	8.12	129	1.9
ZZ39643		0.015	0.12	0.63	43	0.18	2.52	53	0.5
ZZ39644		0.007	0.18	1.67	49	0.10	15.10	129	1.9
ZZ39645		0.022	0.13	1.34	45	0.19	12.75	116	1.8
ZZ39646		0.018	0.24	1.29	65	0.14	10.85	142	0.7
ZZ39647		0.012	0.33	0.80	74	0.15	4.67	135	2.1
ZZ39648		0.008	0.37	3.52	80	0.27	37.9	590	0.9
ZZ39649		0.007	0.97	16.85	125	0.19	48.3	868	1.5
ZZ39650		0.008	0.28	2.21	53	0.13	15.55	257	1.7
ZZ39651		<0.005	0.47	4.59	69	0.27	31.2	706	2.9
ZZ39652		0.005	0.21	0.78	95	0.11	7.06	110	2.2
ZZ39653		0.008	0.41	2.02	99	0.16	39.3	761	2.0
ZZ39654		0.009	0.18	5.61	116	0.13	36.7	279	1.5
ZZ39655		0.005	0.44	4.50	147	0.12	24.9	350	2.0
ZZ39656		0.005	0.07	1.18	30	0.08	11.90	59	1.1
ZZ39657		<0.005	0.10	0.62	35	<0.05	6.49	92	1.7
ZZ39658		0.005	0.09	0.43	36	0.05	3.90	118	1.3
ZZ39659		0.006	0.09	0.76	35	0.06	5.18	84	1.5
ZZ39660		0.008	0.12	0.47	53	0.11	3.23	98	1.5



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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 8- SEP- 2012  
 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39661		0.28	0.001	0.01	1.22	5.7	<0.2	<10	100	0.36	0.40	0.01	0.21	7.54	6.3	23
ZZ39662		0.27	0.003	0.01	0.90	12.6	<0.2	<10	100	0.79	0.55	0.01	0.21	6.13	8.2	34
ZZ39663		0.23	0.003	0.07	1.64	19.6	<0.2	<10	180	0.79	0.27	0.08	0.13	24.0	10.7	26
ZZ39664		0.24	0.009	1.03	2.01	8.5	<0.2	<10	400	1.90	0.28	0.38	0.07	19.50	4.8	24
ZZ39665		0.27	0.002	0.09	1.59	19.4	<0.2	<10	310	0.65	0.33	0.27	0.19	22.8	9.5	26
ZZ39666		0.28	0.001	0.02	1.73	23.9	<0.2	<10	250	1.27	0.29	0.02	0.19	20.4	15.3	31
ZZ39667		0.26	0.001	0.01	0.69	48.8	<0.2	<10	30	0.51	0.28	0.01	0.07	10.25	14.5	9
ZZ39668		0.24	0.001	0.05	1.96	15.9	<0.2	<10	130	1.10	0.33	0.03	0.21	19.55	15.5	28
ZZ39669		0.33	0.002	0.07	1.96	17.9	<0.2	<10	320	1.08	0.29	0.16	0.22	23.6	11.9	29
ZZ39670		0.27	0.002	0.05	1.20	13.5	<0.2	<10	220	1.31	0.37	0.16	0.15	17.70	12.3	27
ZZ39671		0.30	0.003	0.11	1.31	14.1	<0.2	<10	490	1.40	0.38	0.35	0.16	16.15	12.3	25
ZZ39672		0.29	0.004	0.67	0.78	14.9	<0.2	<10	450	1.08	0.31	0.79	2.75	10.50	13.3	18
ZZ39673		0.33	0.002	0.17	1.10	18.2	<0.2	<10	270	0.78	0.26	0.37	0.34	15.95	14.5	22
ZZ39674		0.32	0.006	0.41	0.57	16.5	<0.2	<10	460	0.56	0.25	0.17	0.63	11.65	10.0	10
ZZ39675		0.26	0.005	0.20	0.91	14.5	<0.2	<10	320	0.77	0.26	0.13	0.80	21.2	11.5	16
ZZ39676		0.29	0.006	0.47	0.42	12.7	<0.2	<10	390	0.80	0.25	0.21	1.56	18.60	9.0	7
ZZ39677		0.24	0.005	0.54	0.62	14.5	<0.2	<10	240	0.60	0.29	0.05	1.25	10.65	10.3	10
ZZ39678		0.30	0.003	0.22	1.45	21.4	<0.2	<10	200	0.76	0.28	0.05	0.57	17.75	12.4	22
ZZ39679		0.28	0.005	0.21	0.78	14.3	<0.2	<10	210	0.67	0.30	0.01	0.76	10.60	13.2	10
ZZ39680		0.29	0.003	0.10	0.65	17.8	<0.2	<10	250	0.45	0.27	0.05	0.96	16.90	12.6	14
ZZ39681		0.25	0.006	0.99	1.05	17.1	<0.2	<10	680	0.62	0.23	0.43	1.27	21.8	11.4	17
ZZ39682		0.26	0.005	0.35	0.80	10.4	<0.2	<10	290	0.46	0.24	0.20	0.93	17.70	13.7	16
ZZ39683		0.38	0.006	0.53	0.85	9.8	<0.2	<10	510	0.69	0.26	0.36	0.81	15.90	8.9	15
ZZ39684		0.31	0.002	0.14	1.96	17.4	<0.2	<10	220	0.76	0.31	0.07	0.32	14.15	14.1	27
ZZ39685		0.33	0.002	0.18	0.84	42.1	<0.2	<10	200	0.61	0.29	0.73	0.24	10.25	8.5	18
ZZ39686		0.24	0.002	0.29	1.40	74.4	<0.2	<10	240	0.82	0.21	1.67	2.27	24.0	9.2	35
ZZ39687		0.33	0.001	0.18	2.14	70.7	<0.2	<10	250	1.07	0.32	2.49	2.79	36.4	13.3	41
ZZ39688		0.24	0.001	0.04	1.64	27.1	<0.2	<10	190	0.50	0.29	0.14	0.38	25.1	7.9	22
ZZ39689		0.25	0.002	0.14	2.19	60.9	<0.2	<10	220	0.78	0.29	1.17	2.27	31.8	12.6	45
ZZ39690		0.20	0.004	0.28	1.48	100.0	<0.2	<10	230	0.76	0.29	3.13	4.25	24.4	8.6	41
ZZ39691		0.29	0.004	0.80	1.50	235	<0.2	<10	220	1.01	0.29	2.14	1.58	25.2	17.1	34
ZZ39692		0.30	0.005	0.62	1.75	83.4	<0.2	<10	310	0.93	0.25	2.01	1.01	23.3	15.1	33
ZZ39693		0.25	0.005	0.63	1.27	32.6	<0.2	10	590	0.67	0.20	3.27	1.21	15.65	11.3	23
ZZ39694		0.20	0.005	0.58	1.26	30.5	<0.2	10	590	0.74	0.18	2.44	1.17	14.90	11.3	23
ZZ39695		0.22	0.005	0.53	1.51	56.6	<0.2	10	540	0.73	0.21	1.89	2.92	17.10	12.4	27
ZZ39696		0.18	0.003	0.40	1.36	33.8	<0.2	<10	490	0.70	0.19	2.17	1.18	17.55	12.7	24
ZZ39697		0.39	0.003	0.40	1.30	113.0	<0.2	<10	230	0.64	0.24	2.32	1.10	26.2	13.4	27
ZZ39698		0.25	0.008	0.48	1.28	177.5	<0.2	<10	420	0.75	0.21	2.44	2.28	17.80	12.0	27
ZZ39699		0.24	0.002	0.34	1.47	112.0	<0.2	<10	260	0.74	0.25	1.09	0.83	24.1	15.7	27
ZZ39700		0.30	0.004	0.33	1.66	71.2	<0.2	<10	400	0.81	0.25	1.06	0.99	25.9	14.9	30



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39661		2.16	4.3	3.92	4.40	<0.05	<0.02	0.04	0.016	0.07	4.0	10.2	0.22	257	0.81	<0.01
ZZ39662		3.76	30.8	4.59	2.55	<0.05	<0.02	0.05	0.031	0.07	2.0	9.4	0.18	2270	1.43	<0.01
ZZ39663		1.46	33.8	4.10	5.65	<0.05	0.02	0.26	0.029	0.08	11.9	29.0	0.59	366	1.40	<0.01
ZZ39664		7.28	42.5	2.58	5.62	0.05	0.06	0.19	0.039	0.09	9.8	12.9	0.29	180	1.13	0.01
ZZ39665		2.07	31.6	3.62	6.77	<0.05	<0.02	0.08	0.031	0.09	11.7	16.8	0.47	476	1.70	0.01
ZZ39666		1.88	33.7	4.76	6.38	<0.05	0.02	0.06	0.044	0.08	9.4	19.1	0.43	1360	2.94	<0.01
ZZ39667		2.07	14.9	2.23	2.78	<0.05	<0.02	0.03	0.036	0.08	5.0	4.5	0.13	549	1.03	<0.01
ZZ39668		2.53	25.1	4.48	5.87	<0.05	0.06	0.08	0.036	0.08	9.4	31.5	0.30	726	1.74	0.01
ZZ39669		2.31	31.0	3.71	5.52	<0.05	0.04	0.06	0.033	0.09	12.0	25.2	0.49	502	1.71	0.01
ZZ39670		3.11	32.6	3.36	3.87	0.05	0.05	0.04	0.027	0.08	8.9	21.6	0.44	518	1.02	<0.01
ZZ39671		3.18	40.5	3.42	4.28	0.05	0.06	2.61	0.033	0.08	8.6	19.5	0.41	607	1.43	0.01
ZZ39672		1.65	53.9	2.36	2.41	<0.05	0.07	0.12	0.034	0.07	4.9	9.0	0.16	630	4.92	0.01
ZZ39673		1.04	32.6	3.18	3.59	<0.05	0.03	0.10	0.041	0.06	7.7	17.5	0.37	463	3.05	0.01
ZZ39674		0.95	38.5	2.22	1.98	<0.05	0.02	0.22	0.031	0.07	5.3	6.1	0.12	277	11.70	<0.01
ZZ39675		1.10	59.8	3.19	2.85	0.05	0.02	0.09	0.037	0.07	9.1	14.7	0.28	247	2.98	<0.01
ZZ39676		0.97	69.0	2.82	1.40	0.05	<0.02	0.18	0.043	0.11	7.4	2.5	0.05	148	4.14	0.01
ZZ39677		1.03	54.9	3.11	1.91	0.05	<0.02	0.07	0.047	0.12	4.7	4.9	0.06	196	4.88	0.01
ZZ39678		1.24	48.6	3.21	4.04	<0.05	0.02	0.06	0.039	0.09	8.3	20.3	0.35	312	3.02	<0.01
ZZ39679		1.42	58.4	2.75	2.64	<0.05	0.02	0.07	0.043	0.10	4.8	3.2	0.07	279	4.34	<0.01
ZZ39680		1.38	51.6	3.02	3.19	0.05	<0.02	0.05	0.037	0.10	7.8	6.9	0.14	422	4.29	<0.01
ZZ39681		1.30	39.9	2.63	3.33	0.05	0.05	0.24	0.037	0.09	9.0	19.5	0.25	372	2.71	0.01
ZZ39682		2.06	40.4	2.44	2.94	0.06	<0.02	0.11	0.037	0.12	7.8	10.8	0.22	681	3.50	<0.01
ZZ39683		1.06	47.9	2.22	2.73	0.05	0.05	0.22	0.040	0.11	6.8	12.0	0.20	272	2.53	0.01
ZZ39684		1.96	33.5	3.64	6.03	<0.05	0.03	0.04	0.042	0.07	6.5	32.0	0.39	329	2.18	<0.01
ZZ39685		3.19	20.4	3.15	2.30	<0.05	0.03	0.22	0.035	0.09	5.7	9.8	0.16	265	3.34	0.01
ZZ39686		1.17	19.4	2.51	4.06	0.07	0.04	0.22	0.034	0.05	20.9	11.2	0.24	260	4.56	0.01
ZZ39687		2.01	17.1	3.37	6.18	0.07	0.04	0.28	0.038	0.06	31.1	14.5	0.43	817	1.37	0.01
ZZ39688		1.62	14.5	2.65	7.05	<0.05	0.03	0.05	0.028	0.03	12.9	16.1	0.24	171	1.23	0.01
ZZ39689		1.87	19.1	3.33	6.03	0.05	0.03	0.19	0.039	0.06	20.1	19.6	0.33	435	1.33	0.01
ZZ39690		1.75	21.5	2.30	3.95	0.08	0.03	0.55	0.037	0.04	33.1	10.2	0.19	709	0.78	0.01
ZZ39691		2.57	47.8	3.47	4.78	0.08	0.07	0.71	0.042	0.12	16.9	24.1	0.49	516	2.71	0.01
ZZ39692		1.55	64.7	3.36	4.95	0.05	0.08	0.51	0.036	0.10	13.9	24.4	0.70	447	1.19	0.01
ZZ39693		1.28	46.6	2.48	3.69	<0.05	0.06	0.28	0.027	0.08	8.5	17.3	1.00	621	1.07	0.01
ZZ39694		1.07	59.4	2.31	3.67	0.05	0.06	0.29	0.027	0.08	8.9	17.7	0.48	577	1.14	0.01
ZZ39695		1.15	48.7	2.88	4.34	<0.05	0.07	0.35	0.029	0.09	9.3	22.4	0.61	503	1.29	0.01
ZZ39696		1.08	40.4	2.55	4.11	0.05	0.07	0.24	0.030	0.08	9.6	20.9	0.55	420	0.52	0.01
ZZ39697		1.70	29.1	2.72	3.94	0.06	0.06	0.38	0.027	0.09	14.2	19.9	0.70	251	1.39	0.01
ZZ39698		1.07	31.9	2.60	3.59	<0.05	0.04	0.49	0.030	0.07	14.4	16.3	0.38	490	1.49	0.01
ZZ39699		1.01	34.9	3.38	4.65	0.05	0.05	0.54	0.031	0.08	12.4	25.7	0.59	363	1.79	0.01
ZZ39700		0.98	52.1	3.50	5.24	0.06	0.07	0.37	0.028	0.08	13.4	32.0	0.74	220	1.33	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39661		0.58	11.2	130	15.7	14.3	<0.001	<0.01	0.51	2.3	0.4	1.0	3.3	<0.01	0.04	4.0
ZZ39662		0.37	11.6	350	35.7	8.0	<0.001	0.01	0.47	2.7	0.5	1.1	6.9	<0.01	0.09	4.2
ZZ39663		0.39	25.0	440	15.7	12.5	<0.001	0.01	0.51	3.5	0.7	0.5	20.1	<0.01	0.05	2.7
ZZ39664		0.48	15.3	1790	19.1	16.7	<0.001	0.12	0.34	5.0	1.5	0.8	51.0	<0.01	0.06	1.3
ZZ39665		0.63	21.5	500	16.8	15.8	<0.001	0.01	0.63	3.0	1.1	0.7	32.3	<0.01	0.05	1.1
ZZ39666		0.38	27.9	370	16.4	13.3	<0.001	0.01	0.77	4.5	1.1	0.6	7.7	<0.01	0.08	3.0
ZZ39667		0.15	19.7	240	31.4	9.6	<0.001	0.01	0.79	3.1	0.5	0.3	10.7	<0.01	0.03	2.5
ZZ39668		0.59	20.9	440	20.3	14.6	<0.001	0.02	0.66	3.6	1.0	0.6	7.4	<0.01	0.07	3.3
ZZ39669		0.51	27.6	510	18.7	13.7	<0.001	0.01	0.67	4.3	1.0	0.6	13.4	<0.01	0.07	2.6
ZZ39670		0.49	27.4	620	17.5	10.0	<0.001	0.02	0.70	4.8	0.5	0.7	17.7	<0.01	0.05	3.9
ZZ39671		0.38	26.9	580	18.5	10.9	<0.001	0.03	0.67	5.6	0.8	0.6	37.0	<0.01	0.06	3.1
ZZ39672		0.20	36.1	660	16.9	8.8	0.005	0.06	2.29	5.0	3.5	0.6	79.1	<0.01	0.10	1.6
ZZ39673		0.18	33.0	710	16.1	7.4	0.002	0.01	1.13	5.0	2.0	0.5	30.9	<0.01	0.04	3.1
ZZ39674		0.12	28.8	570	16.3	6.8	0.005	0.02	2.10	2.8	2.3	0.4	21.2	<0.01	0.10	1.9
ZZ39675		0.24	44.4	690	16.7	7.9	0.001	0.01	1.91	4.4	2.1	0.4	17.5	<0.01	0.07	3.5
ZZ39676		0.08	55.2	1080	16.4	6.9	0.002	0.07	3.40	3.9	2.7	0.4	45.5	<0.01	0.08	2.3
ZZ39677		0.12	51.5	990	18.9	9.5	0.002	0.08	3.51	2.9	2.3	0.5	31.8	<0.01	0.09	1.8
ZZ39678		0.30	39.2	560	17.9	12.2	0.001	0.01	1.83	3.8	0.6	0.5	11.3	<0.01	0.08	3.0
ZZ39679		0.17	45.1	830	19.4	12.0	0.002	0.03	2.99	3.3	1.5	0.5	7.6	<0.01	0.09	1.4
ZZ39680		0.33	45.5	710	18.6	13.1	0.001	0.02	2.94	3.6	2.4	0.6	11.9	<0.01	0.08	1.7
ZZ39681		0.24	40.0	770	15.7	10.7	0.002	0.06	1.76	4.3	2.7	0.5	34.0	<0.01	0.06	2.0
ZZ39682		0.34	43.5	1070	17.1	11.3	0.001	0.02	2.91	3.4	1.8	0.6	23.8	<0.01	0.06	2.7
ZZ39683		0.25	33.5	840	14.6	10.7	0.002	0.02	1.95	4.4	3.5	0.5	28.3	<0.01	0.07	3.5
ZZ39684		0.31	38.7	490	20.1	15.3	0.001	0.02	1.10	4.0	1.1	0.7	13.1	0.01	0.07	2.5
ZZ39685		0.18	27.8	520	17.2	8.4	0.002	0.06	0.62	3.4	1.0	0.6	30.1	<0.01	0.08	1.8
ZZ39686		0.43	47.1	620	14.6	7.8	0.002	0.05	0.79	4.4	2.7	0.6	39.2	<0.01	0.04	1.2
ZZ39687		0.94	40.2	480	19.9	16.3	<0.001	0.03	0.94	6.0	1.6	0.7	27.1	<0.01	0.06	2.7
ZZ39688		0.84	20.7	160	15.0	9.1	<0.001	0.01	0.62	3.5	0.3	0.9	8.0	<0.01	0.06	3.2
ZZ39689		0.85	30.6	890	19.1	12.6	0.001	0.05	0.69	4.3	1.1	0.7	21.9	<0.01	0.07	1.8
ZZ39690		0.50	37.7	1810	17.9	8.0	0.001	0.10	0.94	2.2	1.5	0.6	35.7	<0.01	0.11	0.3
ZZ39691		0.32	69.2	1710	19.6	10.5	0.001	0.04	1.40	6.2	2.8	0.6	51.9	<0.01	0.12	2.8
ZZ39692		0.29	42.0	1110	17.5	9.3	0.001	0.06	0.95	6.2	1.7	0.5	36.8	<0.01	0.06	1.4
ZZ39693		0.25	34.5	990	14.0	7.2	0.002	0.08	1.06	3.9	1.4	0.4	43.3	<0.01	0.06	1.1
ZZ39694		0.23	35.3	1080	12.8	7.1	0.003	0.10	1.19	3.7	2.1	0.4	39.9	<0.01	0.06	0.8
ZZ39695		0.24	39.9	1060	14.0	8.6	0.003	0.08	1.19	4.8	1.9	0.4	41.4	<0.01	0.05	1.2
ZZ39696		0.28	34.4	750	12.7	8.3	0.002	0.07	0.73	5.3	1.7	0.4	51.9	<0.01	0.07	1.7
ZZ39697		0.60	42.2	1030	17.4	7.5	<0.001	0.02	0.92	5.2	0.9	0.5	49.0	<0.01	0.06	4.1
ZZ39698		0.48	43.0	900	16.4	7.5	0.002	0.07	0.91	4.3	2.5	0.4	40.2	<0.01	0.05	1.2
ZZ39699		0.35	38.2	940	19.1	7.0	0.001	0.03	0.85	4.6	1.5	0.4	32.1	<0.01	0.09	2.3
ZZ39700		0.37	41.0	800	17.9	7.8	0.002	0.04	1.11	6.4	1.7	0.5	32.8	<0.01	0.09	2.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39661		0.016	0.13	0.53	32	0.27	2.29	41	<0.5
ZZ39662		0.011	0.08	0.83	22	0.30	2.96	38	<0.5
ZZ39663		0.007	0.11	0.45	51	0.10	4.03	83	0.8
ZZ39664		<0.005	0.17	1.93	33	0.16	19.05	45	1.4
ZZ39665		0.019	0.14	0.65	61	0.23	5.31	81	<0.5
ZZ39666		0.006	0.17	0.59	67	0.10	3.73	105	0.8
ZZ39667		<0.005	0.14	0.23	15	<0.05	1.98	69	<0.5
ZZ39668		0.010	0.13	0.53	55	0.14	2.99	88	2.1
ZZ39669		0.009	0.17	0.83	56	0.15	8.45	92	1.1
ZZ39670		0.016	0.08	1.06	35	0.16	7.56	78	1.3
ZZ39671		0.008	0.09	1.34	33	0.16	8.85	77	1.7
ZZ39672		<0.005	0.31	1.68	47	0.09	8.15	91	1.9
ZZ39673		0.005	0.14	0.85	41	0.06	7.72	111	1.2
ZZ39674		<0.005	0.40	1.53	39	0.06	8.98	112	0.6
ZZ39675		0.007	0.17	1.08	42	0.06	11.90	188	0.8
ZZ39676		<0.005	0.27	1.40	38	<0.05	17.20	299	<0.5
ZZ39677		<0.005	0.37	0.99	45	<0.05	6.26	342	<0.5
ZZ39678		0.006	0.19	0.89	56	0.08	4.69	186	0.6
ZZ39679		<0.005	0.39	0.73	46	0.05	5.74	284	0.5
ZZ39680		0.011	0.22	0.85	51	0.09	6.53	246	<0.5
ZZ39681		0.005	0.29	0.96	45	0.06	13.60	147	1.5
ZZ39682		0.012	0.46	0.89	44	0.10	8.73	237	<0.5
ZZ39683		0.005	0.31	1.08	47	0.06	11.20	168	1.5
ZZ39684		<0.005	0.21	0.61	59	0.07	4.47	144	1.0
ZZ39685		<0.005	0.25	1.91	28	0.06	10.20	85	0.8
ZZ39686		0.007	0.20	3.88	65	0.15	29.3	117	1.2
ZZ39687		0.020	0.24	1.14	72	0.20	40.4	198	1.2
ZZ39688		0.015	0.18	0.40	71	0.15	4.00	55	1.5
ZZ39689		0.017	0.21	1.91	73	0.20	25.3	143	1.0
ZZ39690		0.014	0.22	2.63	56	0.22	53.6	198	0.6
ZZ39691		0.007	0.83	2.80	57	0.14	36.5	269	2.1
ZZ39692		0.007	0.33	1.12	57	0.13	25.2	130	2.4
ZZ39693		0.006	0.24	1.33	44	0.11	13.30	137	1.9
ZZ39694		0.005	0.20	1.83	46	0.05	16.45	121	2.1
ZZ39695		0.005	0.37	2.12	77	0.05	14.55	205	1.9
ZZ39696		0.006	0.19	1.60	53	<0.05	13.60	137	2.4
ZZ39697		0.023	0.49	1.06	48	0.19	16.70	172	2.2
ZZ39698		0.009	0.40	1.40	57	0.12	28.8	200	1.4
ZZ39699		0.008	0.24	1.28	54	0.13	14.40	151	1.6
ZZ39700		0.008	0.19	1.29	58	0.07	16.30	144	2.3



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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39701		0.25	0.003	0.25	1.41	38.6	<0.2	<10	250	0.61	0.28	1.18	0.81	26.9	9.2	25
ZZ39702		0.26	0.008	0.26	1.12	35.2	<0.2	<10	410	0.63	0.19	1.98	0.72	14.10	11.0	19
ZZ39703		0.31	0.002	0.33	1.25	44.5	<0.2	<10	600	0.77	0.22	1.52	0.78	18.05	13.0	23
ZZ39704		0.42	0.003	0.32	1.50	41.2	<0.2	<10	470	0.93	0.27	1.23	0.85	24.8	15.5	27
ZZ39705		0.30	0.004	1.11	0.63	48.1	<0.2	10	470	0.70	0.22	2.18	1.59	13.15	7.8	18
ZZ39706		0.31	0.006	1.34	0.50	70.8	<0.2	<10	700	0.68	0.17	3.40	1.11	9.64	6.0	18
ZZ39707		0.21	0.004	0.65	0.54	19.7	<0.2	<10	550	0.44	0.14	1.79	1.43	9.36	6.7	16
ZZ39708		0.34	0.011	0.78	0.61	38.7	<0.2	<10	720	0.57	0.17	1.00	2.40	8.84	6.4	17
ZZ39709		0.23	0.003	0.62	0.98	39.7	<0.2	<10	590	0.68	0.20	2.55	1.76	18.15	7.2	23
ZZ39710		0.20	0.006	0.31	1.17	34.0	<0.2	<10	530	0.75	0.22	1.88	1.82	19.25	6.8	24
ZZ39711		0.25	0.003	0.80	0.78	70.8	<0.2	<10	1130	0.68	0.16	1.30	0.35	8.08	4.6	24
ZZ39712		0.31	0.002	0.56	1.04	47.6	<0.2	<10	580	0.54	0.21	0.82	0.24	15.65	8.3	23
ZZ39713		0.22	0.001	0.22	0.54	15.3	<0.2	<10	340	0.37	0.18	0.46	0.49	7.64	6.3	16
ZZ39714		0.32	0.003	0.77	1.34	29.3	<0.2	<10	1550	1.09	0.18	0.57	0.54	16.00	9.1	29
ZZ39715		0.32	0.010	5.29	0.40	21.8	<0.2	<10	1580	0.55	0.15	0.93	1.61	11.75	3.9	47
ZZ39716		0.26	0.003	2.36	0.67	20.1	<0.2	<10	1870	0.78	0.20	0.30	0.76	11.75	3.4	26
ZZ39717		0.28	0.005	0.74	0.72	26.2	<0.2	<10	640	1.03	0.19	0.08	1.98	24.4	6.8	27
ZZ39718		0.21	0.009	2.05	1.06	33.0	<0.2	<10	1250	1.97	0.17	0.10	2.57	5.66	18.4	39

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**CERTIFICATE OF ANALYSIS WH12194355**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39701		1.28	20.1	2.84	5.19	<0.05	0.03	0.19	0.032	0.05	13.6	18.0	0.44	462	1.68	0.01
ZZ39702		1.06	35.2	2.48	3.32	<0.05	0.05	0.25	0.030	0.07	7.3	17.4	0.41	481	1.00	0.01
ZZ39703		1.41	42.6	3.04	3.96	<0.05	0.06	0.35	0.033	0.09	9.9	20.5	0.59	425	1.42	0.01
ZZ39704		1.22	50.7	3.45	4.73	0.05	0.07	0.33	0.038	0.08	12.0	28.1	0.69	488	1.30	0.01
ZZ39705		2.01	36.6	2.21	1.98	0.05	0.04	0.53	0.034	0.09	9.8	7.3	0.61	266	3.31	0.01
ZZ39706		1.73	37.6	1.90	1.60	<0.05	0.04	1.26	0.035	0.08	7.1	5.1	1.32	169	4.46	<0.01
ZZ39707		1.37	26.1	1.87	1.71	<0.05	0.04	0.17	0.026	0.05	6.0	5.6	0.15	476	2.53	<0.01
ZZ39708		1.88	33.2	2.72	1.80	0.05	0.05	0.30	0.030	0.07	5.0	5.3	0.13	359	6.47	<0.01
ZZ39709		1.00	32.5	2.33	2.96	0.05	0.03	0.32	0.026	0.05	17.7	9.7	0.27	374	2.04	<0.01
ZZ39710		0.83	20.5	2.24	3.52	0.07	0.03	0.17	0.029	0.04	19.4	9.4	0.22	342	1.79	<0.01
ZZ39711		0.63	27.9	1.68	2.42	<0.05	0.03	0.23	0.027	0.05	5.6	5.8	0.11	168	2.37	<0.01
ZZ39712		0.92	22.4	2.38	3.40	<0.05	0.04	0.17	0.030	0.06	7.2	10.6	0.27	284	3.37	<0.01
ZZ39713		0.98	11.8	1.75	1.76	<0.05	0.02	0.05	0.027	0.04	4.7	4.3	0.06	263	1.61	<0.01
ZZ39714		0.79	37.9	2.83	3.25	<0.05	0.04	0.17	0.037	0.06	7.2	12.7	0.38	289	3.53	<0.01
ZZ39715		0.93	66.7	2.00	1.27	0.07	0.02	0.25	0.031	0.07	10.1	1.9	0.04	121	3.91	<0.01
ZZ39716		0.81	44.3	1.89	1.70	0.06	<0.02	0.10	0.039	0.10	6.7	4.9	0.04	53	4.92	<0.01
ZZ39717		1.24	57.8	2.65	1.87	0.07	0.03	0.16	0.053	0.10	10.2	5.0	0.04	120	6.23	<0.01
ZZ39718		0.38	169.5	4.46	1.44	0.09	0.05	0.18	0.062	0.07	5.0	3.2	0.02	154	8.45	<0.01

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ39701	0.84	24.4	690	20.4	9.3	0.001	0.03	0.87	4.2	1.0	0.6	31.4	<0.01	0.05	2.1	
ZZ39702	0.25	30.9	770	13.5	8.5	0.002	0.08	0.69	3.8	1.9	0.4	50.4	<0.01	0.05	1.2	
ZZ39703	0.26	35.3	860	15.9	8.0	0.002	0.05	0.82	5.5	1.2	0.5	48.2	<0.01	0.07	2.1	
ZZ39704	0.40	38.9	850	19.2	8.2	0.001	0.04	0.85	6.8	1.4	0.5	43.5	<0.01	0.07	3.1	
ZZ39705	0.19	47.4	640	18.0	8.6	0.004	0.05	1.56	5.9	2.7	0.4	59.7	<0.01	0.10	1.5	
ZZ39706	0.11	47.5	580	22.6	8.2	0.003	0.03	1.72	6.2	3.1	0.5	60.7	0.01	0.09	2.0	
ZZ39707	0.17	39.8	830	9.6	8.6	0.007	0.08	0.88	2.5	4.0	0.4	53.7	<0.01	0.04	0.7	
ZZ39708	0.17	44.8	820	13.6	12.0	0.015	0.09	1.39	3.6	8.7	0.4	56.1	<0.01	0.05	1.5	
ZZ39709	0.48	34.6	730	15.8	7.4	0.001	0.06	0.97	3.1	2.6	0.5	44.9	<0.01	0.06	0.7	
ZZ39710	0.63	26.8	670	16.3	7.5	0.001	0.05	0.77	2.6	1.8	0.5	34.7	<0.01	0.03	0.6	
ZZ39711	0.15	29.6	330	14.2	6.7	0.001	0.03	0.96	4.2	2.6	0.5	46.4	0.01	0.07	0.8	
ZZ39712	0.45	33.2	750	13.5	7.2	0.001	0.03	1.02	3.5	2.7	0.5	53.3	<0.01	0.07	2.3	
ZZ39713	0.27	17.3	460	12.3	8.6	0.002	0.02	0.83	2.0	1.2	0.4	15.1	<0.01	0.12	1.3	
ZZ39714	0.11	50.9	520	18.2	8.1	0.001	0.02	1.21	6.0	2.4	0.6	32.2	<0.01	0.05	2.5	
ZZ39715	0.08	74.7	1680	8.2	7.0	0.002	0.04	1.38	5.0	5.6	0.5	54.8	<0.01	0.09	1.8	
ZZ39716	0.08	34.4	1610	12.3	8.5	0.005	0.20	1.55	3.6	8.2	0.5	200	<0.01	0.24	2.4	
ZZ39717	0.17	55.0	1010	14.1	8.9	0.004	0.09	2.20	6.2	5.9	0.5	104.0	<0.01	0.13	5.0	
ZZ39718	<0.05	292	1390	11.0	6.5	0.003	0.12	2.31	9.8	12.0	0.4	126.0	<0.01	0.18	1.4	

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39701		0.022	0.22	1.22	65	0.24	10.95	111	0.8
ZZ39702		0.005	0.15	1.64	37	0.06	11.45	124	1.7
ZZ39703		0.006	0.15	1.11	44	0.07	14.45	134	1.9
ZZ39704		0.008	0.15	1.24	53	0.10	13.85	136	2.1
ZZ39705		0.005	0.26	1.89	45	0.09	21.0	208	1.3
ZZ39706		<0.005	0.28	1.68	52	0.08	22.7	200	1.7
ZZ39707		<0.005	0.17	5.86	42	0.06	12.90	189	1.4
ZZ39708		<0.005	0.28	10.25	69	0.07	12.90	240	1.5
ZZ39709		0.013	0.17	1.30	49	0.13	33.4	131	0.8
ZZ39710		0.016	0.13	1.21	52	0.17	31.4	117	0.6
ZZ39711		<0.005	0.13	1.42	67	0.07	17.80	82	1.0
ZZ39712		0.010	0.14	1.64	57	0.18	8.43	114	1.1
ZZ39713		0.007	0.12	0.87	40	0.05	5.85	85	0.6
ZZ39714		<0.005	0.17	1.39	71	0.06	16.25	157	1.4
ZZ39715		<0.005	0.14	2.82	47	0.05	31.5	238	1.2
ZZ39716		<0.005	0.21	2.50	58	0.05	15.40	129	0.7
ZZ39717		<0.005	0.35	3.54	108	<0.05	24.6	223	1.4
ZZ39718		<0.005	0.15	6.03	117	<0.05	99.0	896	3.2



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Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194355**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194356**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 201 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

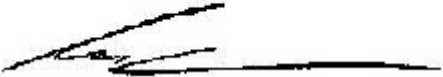
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
EXTRA- 01	Extra Sample received in Shipment
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39719		0.21	0.007	1.31	0.66	4.1	<0.2	<10	1000	0.27	0.23	0.16	1.73	6.14	3.0	29
ZZ39720		0.24	0.007	1.03	0.53	13.6	<0.2	10	1770	0.64	0.14	2.13	0.57	5.43	4.9	25
ZZ39721		0.26	0.007	0.29	1.19	16.2	<0.2	<10	1210	0.90	0.19	0.47	0.41	20.1	9.4	29
ZZ39722		0.24	0.002	0.08	1.06	9.6	<0.2	<10	160	0.28	0.22	0.04	0.24	21.9	3.5	19
ZZ39723		0.32	0.004	0.18	1.86	25.2	<0.2	<10	380	1.04	0.25	0.20	0.80	33.3	14.2	31
ZZ39724		0.23	0.004	0.32	0.94	18.0	<0.2	<10	230	0.42	0.26	0.23	0.44	13.95	6.6	23
ZZ39725		0.26	0.004	0.23	1.71	20.9	<0.2	<10	330	0.93	0.25	0.75	1.17	20.9	17.9	31
ZZ39726		0.20	<0.001	0.51	1.18	47.7	<0.2	<10	640	0.90	0.19	1.64	1.92	16.20	12.9	23
ZZ39727		0.25	0.005	0.56	1.08	23.5	<0.2	10	500	0.98	0.20	2.48	3.91	16.55	11.7	26
ZZ39728		0.30	0.005	0.96	1.23	27.9	<0.2	<10	340	1.14	0.22	1.09	5.48	24.3	14.2	39
ZZ39729		0.30	0.001	0.33	1.36	20.1	<0.2	<10	280	1.11	0.22	2.81	3.33	21.6	16.0	25
ZZ39730		0.33	0.004	0.33	1.56	24.7	<0.2	<10	250	1.15	0.23	1.08	1.87	24.4	17.0	30
ZZ39731		0.25	0.004	19.35	3.61	17.3	<0.2	<10	820	1.95	0.25	0.59	5.00	48.0	19.4	49
ZZ39732		0.29	0.005	0.26	1.96	13.6	<0.2	<10	350	0.85	0.25	0.49	0.51	31.2	16.5	35
ZZ39733		0.34	0.004	0.17	1.87	23.7	<0.2	<10	240	1.28	0.30	0.42	0.37	24.7	21.1	30
ZZ39734		0.33	0.005	0.19	1.89	15.5	<0.2	<10	290	1.08	0.26	0.81	1.73	25.5	16.5	32
ZZ39735		0.27	0.004	0.11	1.81	22.1	<0.2	<10	210	1.11	0.26	2.02	0.29	21.4	20.6	27
ZZ39736		0.24	0.005	0.33	1.60	13.8	<0.2	<10	250	0.87	0.23	2.23	0.42	21.5	12.5	31
ZZ39737		0.35	0.003	0.11	2.19	13.2	<0.2	<10	130	1.05	0.28	0.45	0.74	36.3	21.0	33
ZZ39738		0.31	0.004	0.22	2.07	12.5	<0.2	<10	180	1.03	0.28	0.60	0.26	31.5	17.9	32
ZZ39739		0.23	0.003	0.15	1.85	12.1	<0.2	<10	200	0.97	0.24	1.39	0.31	23.1	14.8	28
ZZ39740		0.29	0.004	0.16	1.75	10.1	<0.2	<10	210	0.99	0.30	1.04	0.48	24.9	14.6	29
ZZ39741		0.24	0.003	0.09	1.98	15.6	<0.2	<10	190	0.93	0.31	0.22	0.19	41.2	21.2	30
ZZ39742		0.30	0.004	0.08	2.02	16.6	<0.2	<10	170	1.10	0.34	0.35	0.24	38.0	25.1	31
ZZ39743		0.28	0.004	0.16	1.57	31.9	<0.2	<10	130	0.83	0.27	0.71	0.77	26.9	20.1	26
ZZ39744		0.19	0.004	0.13	1.39	13.3	<0.2	10	200	0.80	0.23	1.95	0.68	19.05	13.8	21
ZZ39745		0.32	0.003	0.11	2.18	13.4	<0.2	<10	150	0.98	0.31	0.53	0.29	36.5	23.3	31
ZZ39746		0.32	0.003	0.09	2.28	12.7	<0.2	<10	130	1.01	0.32	1.05	0.23	38.9	25.5	33
ZZ39747		0.30	0.003	0.11	2.10	13.2	<0.2	<10	140	0.85	0.33	0.51	0.23	36.4	20.6	31
ZZ39748		0.34	0.003	0.12	2.05	13.7	<0.2	<10	140	0.96	0.32	0.77	0.25	29.6	18.9	31
ZZ39749		0.35	0.005	0.10	1.93	15.4	<0.2	<10	120	0.94	0.33	0.72	0.26	33.9	24.3	30
ZZ39750		0.31	0.004	0.14	1.86	13.5	<0.2	<10	140	0.89	0.30	0.52	0.39	33.1	21.5	30
ZZ39751		0.30	0.004	0.08	2.00	12.5	<0.2	<10	130	0.83	0.30	0.69	0.26	34.3	22.6	31
ZZ39752		0.28	0.003	0.14	1.86	14.2	<0.2	<10	160	0.89	0.31	0.62	0.36	32.4	23.4	30
ZZ39753		0.26	0.003	0.10	1.32	88.5	<0.2	<10	120	0.76	0.27	1.22	0.33	20.2	15.9	22
ZZ39754		0.25	0.003	0.11	1.40	92.3	<0.2	<10	150	0.89	0.26	0.87	0.32	22.0	14.7	24
ZZ39755		0.28	0.003	0.11	1.57	75.5	<0.2	<10	170	0.94	0.33	0.71	0.42	25.8	20.1	26
ZZ39756		0.27	0.003	0.11	1.69	152.5	<0.2	<10	160	1.05	0.32	0.47	0.34	27.1	18.2	28
ZZ39757		0.24	0.005	0.12	1.54	45.5	<0.2	<10	190	0.94	0.29	0.67	0.41	24.5	12.4	25
ZZ39758		0.31	0.003	0.14	1.55	42.0	<0.2	<10	200	1.13	0.30	0.69	0.31	24.0	13.1	25

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39719		0.74	64.4	1.32	1.46	<0.05	<0.02	0.07	0.039	0.04	2.9	0.3	0.02	22	2.04	0.01
ZZ39720		0.55	41.1	2.03	1.35	<0.05	0.05	0.21	0.027	0.07	3.2	3.3	0.09	155	5.09	<0.01
ZZ39721		0.95	43.4	2.90	3.59	0.06	0.05	0.12	0.033	0.08	10.9	13.5	0.32	265	3.90	0.01
ZZ39722		1.21	10.6	2.31	5.33	<0.05	0.03	0.02	0.017	0.05	10.9	10.6	0.16	92	2.36	0.01
ZZ39723		1.73	40.2	3.91	5.04	0.05	0.05	0.08	0.040	0.08	12.1	20.7	0.46	661	3.04	0.01
ZZ39724		2.60	27.0	2.49	3.92	<0.05	0.02	0.11	0.029	0.08	5.5	10.3	0.16	257	5.30	<0.01
ZZ39725		1.62	49.7	4.34	5.45	<0.05	0.06	0.14	0.044	0.10	7.0	26.7	0.77	709	3.85	0.01
ZZ39726		1.30	57.8	4.39	3.60	0.06	0.06	0.26	0.032	0.09	7.8	15.7	0.40	929	4.88	0.01
ZZ39727		1.44	57.8	2.75	3.44	0.05	0.06	0.23	0.029	0.11	8.3	14.7	0.64	845	4.71	0.01
ZZ39728		1.63	69.6	3.41	4.20	0.07	0.06	0.26	0.039	0.14	13.2	17.8	0.43	520	9.24	0.01
ZZ39729		1.46	69.3	3.65	4.14	0.06	0.07	0.20	0.038	0.14	10.0	21.6	0.89	643	4.04	0.01
ZZ39730		1.67	67.0	4.20	4.65	0.06	0.07	0.19	0.038	0.14	13.2	24.4	0.63	747	5.23	0.01
ZZ39731		2.65	40.3	4.47	5.44	0.07	0.09	0.17	0.046	0.08	18.2	21.0	0.47	1220	2.05	0.01
ZZ39732		1.00	44.8	4.07	6.21	0.07	0.05	0.14	0.035	0.08	15.1	26.1	0.84	509	3.62	0.01
ZZ39733		1.43	90.9	5.20	5.75	0.08	0.08	0.23	0.047	0.12	12.6	30.4	0.78	747	1.51	0.01
ZZ39734		0.95	67.0	4.44	5.51	0.06	0.06	0.17	0.046	0.10	12.2	31.6	0.78	1000	13.60	0.01
ZZ39735		1.41	81.9	4.65	5.16	0.07	0.08	0.22	0.038	0.12	8.7	30.5	1.32	1060	0.97	0.01
ZZ39736		0.89	44.1	3.27	4.77	0.06	0.05	0.16	0.032	0.08	11.5	24.7	0.59	482	1.20	0.01
ZZ39737		1.60	63.1	4.83	6.38	0.07	0.12	0.11	0.036	0.17	16.1	44.5	1.00	902	5.58	0.01
ZZ39738		1.27	66.3	4.43	5.75	0.06	0.12	0.12	0.041	0.15	14.4	43.3	0.89	519	4.42	0.01
ZZ39739		1.15	54.0	3.93	5.13	0.06	0.10	0.12	0.033	0.12	12.0	36.8	0.82	913	4.30	0.01
ZZ39740		0.87	49.7	3.10	5.72	<0.05	0.09	0.12	0.037	0.09	10.7	37.2	0.72	258	5.00	<0.01
ZZ39741		1.11	54.2	4.01	5.94	0.06	0.05	0.08	0.033	0.07	18.6	33.7	0.72	805	0.94	<0.01
ZZ39742		1.18	87.2	4.79	6.49	0.06	0.06	0.17	0.040	0.13	17.1	40.4	0.98	969	0.72	<0.01
ZZ39743		1.78	49.3	4.66	5.17	0.05	0.08	0.16	0.034	0.12	11.6	31.0	0.72	314	13.40	<0.01
ZZ39744		1.52	39.2	3.16	4.48	0.05	0.06	0.12	0.033	0.10	8.4	28.5	0.57	1320	2.89	<0.01
ZZ39745		1.61	77.1	4.66	6.83	0.07	0.11	0.12	0.032	0.18	16.8	45.5	1.03	1050	0.97	<0.01
ZZ39746		1.74	85.5	4.77	7.29	0.08	0.24	0.09	0.031	0.21	17.5	47.2	1.19	738	0.71	<0.01
ZZ39747		1.25	74.5	4.47	6.31	0.07	0.14	0.13	0.033	0.17	17.6	43.3	0.88	783	0.69	<0.01
ZZ39748		1.25	76.1	4.17	6.61	0.05	0.10	0.13	0.039	0.16	14.2	43.3	0.89	537	0.68	<0.01
ZZ39749		1.56	92.3	4.68	6.42	0.07	0.13	0.16	0.033	0.14	14.8	41.5	1.10	763	0.73	<0.01
ZZ39750		1.04	76.7	4.17	6.04	0.05	0.09	0.11	0.038	0.10	14.8	40.2	0.90	894	0.77	<0.01
ZZ39751		1.28	78.7	4.41	6.34	0.06	0.11	0.09	0.034	0.14	15.9	43.2	1.03	1000	1.26	<0.01
ZZ39752		1.12	74.8	4.19	6.05	0.05	0.07	0.11	0.038	0.11	14.2	36.7	0.86	760	1.38	<0.01
ZZ39753		2.53	45.4	4.23	4.33	<0.05	0.06	0.17	0.035	0.10	8.7	24.9	0.89	461	0.66	<0.01
ZZ39754		2.28	46.6	3.63	4.75	<0.05	0.07	0.18	0.036	0.11	9.2	26.7	0.63	311	0.62	<0.01
ZZ39755		2.46	62.5	3.73	5.47	0.05	0.08	0.21	0.031	0.12	11.2	31.4	0.71	332	0.76	<0.01
ZZ39756		2.69	62.2	4.99	5.55	0.05	0.09	0.24	0.040	0.12	11.9	32.3	0.73	805	0.75	<0.01
ZZ39757		3.32	55.8	3.04	5.17	<0.05	0.09	0.22	0.036	0.12	10.6	29.9	0.62	233	0.53	<0.01
ZZ39758		3.23	58.4	2.99	5.24	<0.05	0.09	0.23	0.041	0.11	10.8	29.2	0.63	204	0.52	<0.01

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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39719		0.15	40.8	820	20.7	3.1	0.001	0.10	0.50	2.2	2.5	1.1	43.8	<0.01	0.07	0.5
ZZ39720		0.10	60.0	580	8.4	5.4	0.005	0.11	1.13	4.7	4.8	0.5	148.5	<0.01	0.06	0.5
ZZ39721		0.39	52.8	910	11.3	8.1	0.002	0.04	1.06	6.2	2.3	0.6	57.9	<0.01	0.08	3.2
ZZ39722		0.81	12.7	170	11.1	12.0	<0.001	0.01	0.43	1.7	0.5	0.8	7.8	<0.01	0.07	2.9
ZZ39723		0.48	39.9	680	16.9	10.9	0.001	0.03	1.01	4.8	1.4	0.7	23.4	<0.01	0.07	3.5
ZZ39724		0.38	23.9	400	13.6	11.4	0.002	0.05	1.05	2.2	1.8	1.0	23.4	<0.01	0.07	1.5
ZZ39725		0.31	43.3	620	17.5	8.5	0.002	0.04	1.13	6.7	1.8	0.7	38.1	<0.01	0.10	2.9
ZZ39726		0.28	46.1	830	13.6	9.1	0.003	0.11	1.96	4.6	5.6	0.5	68.9	<0.01	0.10	1.8
ZZ39727		0.27	57.5	760	13.7	7.9	0.004	0.08	2.48	4.8	2.7	0.6	85.8	<0.01	0.07	1.9
ZZ39728		0.26	83.6	940	15.5	9.5	0.003	0.05	3.54	6.6	2.8	0.7	51.6	<0.01	0.10	3.3
ZZ39729		0.27	50.8	760	15.7	8.2	0.003	0.06	1.73	6.6	1.5	0.6	81.4	<0.01	0.09	2.7
ZZ39730		0.22	51.5	890	17.5	9.0	0.001	0.05	1.86	7.4	1.4	0.6	44.9	<0.01	0.08	2.9
ZZ39731		0.65	55.0	1350	15.9	13.0	<0.001	0.04	0.77	8.9	2.0	0.7	55.0	0.01	0.07	3.9
ZZ39732		0.67	34.9	790	14.8	8.9	0.002	0.02	2.83	6.9	3.8	0.7	29.5	<0.01	0.09	4.5
ZZ39733		0.16	42.6	540	19.9	8.7	0.001	0.02	0.74	11.0	1.6	0.6	29.8	<0.01	0.13	4.7
ZZ39734		0.38	80.8	580	15.9	8.3	0.003	0.04	0.80	9.3	1.8	0.7	35.2	<0.01	0.11	2.3
ZZ39735		0.15	36.0	540	19.8	8.0	0.003	0.05	0.41	7.5	1.4	0.6	53.5	<0.01	0.10	2.4
ZZ39736		0.40	49.4	650	14.0	7.5	0.001	0.07	0.66	4.6	1.7	0.5	80.1	<0.01	0.07	1.6
ZZ39737		0.14	97.6	540	17.8	9.0	0.001	0.02	0.55	7.2	0.8	0.6	33.1	<0.01	0.08	5.4
ZZ39738		0.25	39.5	710	17.3	8.6	0.002	0.03	0.40	7.5	1.6	0.5	33.9	<0.01	0.07	4.9
ZZ39739		0.23	37.3	730	14.7	8.0	0.005	0.08	0.57	5.7	2.0	0.5	52.2	<0.01	0.08	2.4
ZZ39740		0.46	34.9	640	21.0	8.8	0.013	0.11	0.44	6.8	4.0	0.5	45.0	<0.01	0.08	3.7
ZZ39741		0.43	37.3	580	19.7	8.0	<0.001	0.01	0.53	6.5	0.7	0.4	20.9	<0.01	0.09	5.7
ZZ39742		0.10	43.4	670	21.7	7.0	<0.001	0.01	0.45	9.3	0.6	0.4	30.1	<0.01	0.11	5.8
ZZ39743		0.32	48.7	650	20.0	10.9	0.007	0.04	0.73	6.8	1.6	0.5	41.1	<0.01	0.07	4.4
ZZ39744		0.33	38.1	730	15.1	12.4	0.004	0.11	0.44	4.5	1.9	0.4	87.4	<0.01	0.09	1.3
ZZ39745		0.18	41.9	710	20.3	9.7	<0.001	0.02	0.45	6.7	0.7	0.4	38.6	<0.01	0.08	5.6
ZZ39746		0.08	43.5	680	20.5	9.3	0.001	<0.01	0.42	7.9	0.7	0.3	54.7	<0.01	0.09	6.5
ZZ39747		0.18	41.5	620	19.3	8.9	<0.001	0.01	0.42	7.4	0.9	0.3	38.1	<0.01	0.07	5.5
ZZ39748		0.21	38.6	690	16.6	9.3	<0.001	0.03	0.40	7.4	1.2	0.4	45.7	<0.01	0.08	3.9
ZZ39749		0.13	41.4	700	20.2	7.0	0.001	0.02	0.50	8.9	0.6	0.4	37.2	<0.01	0.09	5.8
ZZ39750		0.26	38.3	650	15.6	7.1	<0.001	0.03	0.42	9.1	1.5	0.4	33.5	<0.01	0.10	4.6
ZZ39751		0.15	41.0	640	20.4	8.1	<0.001	0.02	0.38	7.3	1.0	0.3	40.9	<0.01	0.10	4.6
ZZ39752		0.32	38.9	730	18.5	7.9	0.001	0.02	0.45	8.0	1.0	0.5	36.5	<0.01	0.11	4.1
ZZ39753		0.17	30.0	620	21.0	9.5	<0.001	0.08	0.31	5.8	0.8	0.4	42.1	<0.01	0.07	2.8
ZZ39754		0.23	28.3	480	21.1	12.4	0.002	0.07	0.27	6.3	0.9	0.5	38.7	<0.01	0.05	2.8
ZZ39755		0.23	35.6	590	25.5	11.7	0.001	0.04	0.44	8.0	1.1	0.5	37.5	<0.01	0.08	4.2
ZZ39756		0.21	34.1	710	25.4	12.8	0.001	0.03	0.25	8.6	1.6	0.5	28.4	<0.01	0.08	4.2
ZZ39757		0.27	30.8	670	21.0	14.0	0.002	0.08	0.34	7.4	1.1	0.4	35.9	<0.01	0.06	3.4
ZZ39758		0.28	30.3	640	22.0	13.4	0.001	0.10	0.35	7.9	1.3	0.5	36.6	<0.01	0.07	3.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39719		0.008	0.02	2.33	31	0.05	3.79	101	<0.5
ZZ39720		<0.005	0.13	3.04	56	<0.05	26.2	173	2.0
ZZ39721		0.013	0.13	1.46	61	0.10	20.9	157	1.6
ZZ39722		0.022	0.14	0.43	62	0.17	2.22	51	1.2
ZZ39723		0.010	0.27	1.34	75	0.13	9.40	123	1.4
ZZ39724		0.009	0.25	1.00	69	0.12	4.13	111	0.7
ZZ39725		0.008	0.31	1.03	84	0.07	9.05	182	1.6
ZZ39726		0.005	0.29	2.05	97	0.08	14.85	177	1.6
ZZ39727		0.006	0.39	1.56	158	0.08	14.65	283	1.9
ZZ39728		0.006	0.45	2.13	262	0.11	22.1	410	2.3
ZZ39729		0.005	0.33	1.49	117	0.06	15.00	232	2.5
ZZ39730		0.006	0.32	1.28	126	0.07	17.50	243	2.2
ZZ39731		0.015	0.30	2.45	67	0.16	24.7	162	2.2
ZZ39732		0.019	0.17	1.48	70	0.14	11.90	112	1.5
ZZ39733		0.007	0.15	0.76	52	<0.05	16.90	109	3.2
ZZ39734		0.012	0.15	3.90	61	0.07	16.90	353	1.3
ZZ39735		0.005	0.14	2.03	46	<0.05	12.70	96	1.9
ZZ39736		0.009	0.14	1.88	69	0.10	15.55	121	1.6
ZZ39737		0.007	0.39	1.51	91	<0.05	11.10	436	4.5
ZZ39738		0.009	0.13	1.98	51	0.09	12.45	139	3.7
ZZ39739		0.007	0.15	4.68	54	0.05	12.45	165	2.6
ZZ39740		0.007	0.11	13.00	43	0.07	10.60	121	3.3
ZZ39741		0.015	0.10	0.96	45	0.10	12.05	74	2.2
ZZ39742		0.007	0.10	0.66	48	<0.05	14.80	92	3.6
ZZ39743		0.008	0.27	4.30	45	0.08	10.35	375	3.6
ZZ39744		0.007	0.19	4.43	35	0.09	9.31	267	2.0
ZZ39745		0.008	0.09	1.08	47	<0.05	9.60	107	5.1
ZZ39746		0.008	0.08	0.52	51	<0.05	10.40	97	11.4
ZZ39747		0.007	0.08	0.75	43	<0.05	10.90	94	5.3
ZZ39748		0.007	0.09	1.20	44	<0.05	11.90	98	4.0
ZZ39749		0.010	0.09	0.58	47	<0.05	11.85	98	6.6
ZZ39750		0.009	0.08	1.55	46	0.07	13.40	94	3.7
ZZ39751		0.006	0.08	1.15	46	<0.05	11.00	103	4.1
ZZ39752		0.011	0.09	1.56	46	0.06	12.70	94	2.6
ZZ39753		0.005	0.32	0.81	35	0.05	9.16	118	2.2
ZZ39754		0.006	0.34	1.51	36	0.10	9.96	124	2.2
ZZ39755		0.005	0.40	0.85	40	<0.05	11.40	131	3.2
ZZ39756		0.005	0.34	0.94	43	<0.05	12.20	134	3.3
ZZ39757		0.005	0.40	1.33	37	<0.05	11.55	135	2.9
ZZ39758		0.005	0.41	1.08	38	0.05	13.05	125	3.1



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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39759		0.17	0.003	0.12	1.67	100.5	<0.2	<10	190	1.04	0.30	0.43	0.41	23.1	13.7	27
ZZ39760		0.23	0.005	0.11	2.02	163.5	<0.2	<10	230	1.18	0.33	0.65	0.30	24.9	12.4	30
ZZ39761		0.24	0.002	0.04	1.93	10.7	<0.2	<10	100	0.81	0.30	0.04	0.18	32.6	17.9	29
ZZ39762		0.20	0.009	0.06	2.27	25.3	<0.2	<10	110	1.04	0.35	0.08	0.14	13.90	18.3	25
ZZ39763		0.22	0.001	0.04	2.26	12.6	<0.2	<10	70	0.74	0.29	0.02	0.31	28.2	21.5	34
ZZ39764		0.26	0.005	0.12	1.65	17.3	<0.2	<10	190	0.93	0.33	0.59	0.13	34.4	15.2	29
ZZ39765		0.22	0.002	0.04	2.25	17.1	<0.2	<10	150	1.04	0.38	0.29	0.29	20.8	15.9	32
ZZ39766		0.26	0.002	0.03	2.05	16.5	<0.2	<10	200	0.62	0.33	0.16	0.12	26.2	10.4	30
ZZ39767		0.28	0.002	0.01	1.51	10.2	<0.2	<10	140	0.29	0.28	0.07	0.06	29.5	5.3	22
ZZ39768		0.26	0.003	0.17	2.18	15.6	<0.2	<10	230	0.96	0.32	0.25	0.17	38.3	15.8	32
ZZ39769		0.25	0.002	0.06	1.77	14.3	<0.2	<10	140	0.74	0.33	0.13	0.07	34.4	13.5	25
ZZ39770		0.24	0.003	0.14	1.47	16.6	<0.2	<10	100	0.84	0.32	0.52	0.37	28.7	14.8	24
ZZ39771		0.27	0.001	0.02	0.68	12.1	<0.2	<10	70	0.24	0.47	0.02	0.08	22.9	6.4	15
ZZ39772		0.24	0.001	0.03	0.91	12.2	<0.2	<10	110	0.58	0.57	0.03	0.08	12.15	14.6	13
ZZ39773		0.25	0.003	0.13	1.30	18.6	<0.2	<10	210	1.13	0.37	0.32	0.33	21.6	16.5	22
ZZ39774		0.22	0.001	0.02	1.52	10.5	<0.2	<10	60	0.64	0.49	0.01	0.12	16.05	13.2	28
ZZ39775		0.24	0.001	0.01	1.73	19.1	<0.2	<10	180	0.69	0.46	0.02	0.19	19.55	16.5	28
ZZ39776		0.26	0.004	0.12	1.42	19.4	<0.2	<10	370	1.16	0.35	0.27	0.23	30.1	14.3	29
ZZ39777		0.29	0.002	0.11	1.53	11.5	<0.2	<10	510	1.67	0.46	0.37	0.11	12.95	12.4	24
ZZ39778		0.32	0.002	1.34	0.76	18.0	<0.2	<10	200	0.81	0.25	0.35	5.67	11.30	8.9	14
ZZ39779		0.31	0.002	0.68	1.23	19.1	<0.2	<10	230	0.74	0.24	0.67	1.40	20.8	11.5	21
ZZ39780		0.21	0.002	0.13	1.79	20.2	<0.2	<10	160	0.69	0.36	0.04	0.26	16.00	11.2	30
ZZ39781		0.24	0.001	0.05	1.54	22.5	<0.2	<10	110	0.35	0.32	0.03	0.29	16.80	9.1	29
ZZ39782		0.23	0.001	0.05	1.14	16.7	<0.2	<10	70	0.21	0.28	0.05	0.14	14.65	5.5	21
ZZ39783		0.28	0.002	0.22	1.40	11.6	<0.2	<10	310	1.02	0.33	0.74	0.39	18.95	10.8	23
ZZ39784		0.26	0.003	0.23	1.44	14.6	<0.2	<10	320	1.47	0.44	0.53	0.41	21.1	12.5	25
ZZ39785		0.28	0.003	0.22	1.31	13.2	<0.2	<10	200	0.70	0.24	0.62	0.48	32.2	12.2	31
ZZ39786		0.28	0.009	0.42	0.72	15.5	<0.2	<10	130	0.57	0.24	0.74	0.83	25.4	15.2	14
ZZ39787		0.24	0.007	0.58	1.05	10.5	<0.2	<10	260	0.79	0.24	1.09	0.83	31.9	13.9	20
ZZ39788		0.20	0.003	0.32	1.12	8.1	<0.2	<10	140	1.41	0.35	2.05	0.39	12.70	10.1	22
ZZ39789		0.20	0.004	0.39	1.01	12.6	<0.2	<10	250	0.91	0.29	1.43	0.91	17.25	12.6	19
ZZ39790		0.26	<0.001	0.04	1.35	25.0	<0.2	<10	120	0.96	0.40	0.08	0.26	16.75	16.6	24
ZZ39791		0.23	0.002	1.01	0.44	24.1	<0.2	<10	100	1.14	0.28	0.37	3.98	8.16	15.0	8
ZZ39792		0.26	0.002	0.42	1.18	15.1	<0.2	<10	100	0.75	0.34	0.02	0.27	13.30	11.5	15
ZZ39793		0.24	0.003	0.33	0.56	17.3	<0.2	<10	140	1.09	0.31	0.17	2.15	11.75	16.9	10
ZZ39794		0.33	0.003	0.27	0.66	28.0	<0.2	<10	200	1.29	0.39	0.66	0.67	11.80	16.0	19
ZZ39795		0.29	0.004	0.23	1.03	17.6	<0.2	<10	260	1.02	0.30	0.86	0.67	17.95	14.4	19
ZZ39796		0.23	0.003	0.52	0.90	20.2	<0.2	<10	360	1.02	0.25	1.28	1.47	16.15	14.8	17
ZZ39797		0.31	0.004	0.30	0.98	15.5	<0.2	<10	290	0.92	0.26	1.01	1.44	18.80	12.5	19
ZZ39798		0.35	0.003	0.28	1.14	21.1	<0.2	<10	380	0.91	0.27	0.85	0.68	19.70	12.6	21

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39759		3.58	57.4	3.84	5.49	0.05	0.10	0.23	0.036	0.12	10.8	31.3	0.63	197	0.68	<0.01
ZZ39760		3.58	63.9	4.69	6.28	<0.05	0.08	0.27	0.046	0.14	11.4	36.9	0.74	228	0.85	<0.01
ZZ39761		5.11	49.5	4.47	7.60	0.05	0.04	0.02	0.047	0.08	13.5	33.9	0.68	291	0.92	<0.01
ZZ39762		3.82	49.1	5.24	5.84	<0.05	0.04	0.02	0.052	0.05	3.5	30.0	0.83	456	2.58	<0.01
ZZ39763		3.04	52.3	5.26	7.29	<0.05	0.10	0.02	0.043	0.06	12.5	58.4	0.89	463	0.87	<0.01
ZZ39764		2.23	71.5	4.08	5.46	0.06	0.05	0.09	0.037	0.07	17.4	33.6	0.70	675	1.04	<0.01
ZZ39765		2.79	35.9	4.88	7.29	<0.05	0.03	0.04	0.045	0.06	9.1	37.2	0.56	550	1.56	<0.01
ZZ39766		1.84	13.7	4.04	7.80	<0.05	0.02	0.02	0.033	0.05	11.7	32.9	0.39	309	2.03	<0.01
ZZ39767		1.56	9.4	2.94	7.17	<0.05	0.07	0.01	0.020	0.04	14.6	23.1	0.29	172	1.54	<0.01
ZZ39768		1.97	26.4	3.67	5.77	<0.05	0.04	0.04	0.038	0.06	14.6	27.2	0.58	474	1.35	<0.01
ZZ39769		1.10	23.4	3.95	5.20	<0.05	0.02	0.04	0.023	0.04	13.3	40.5	0.55	392	1.07	<0.01
ZZ39770		1.25	42.0	3.95	4.50	0.05	0.06	0.10	0.029	0.06	14.3	44.6	0.60	481	0.83	<0.01
ZZ39771		4.25	15.3	3.01	6.00	<0.05	<0.02	<0.01	0.027	0.08	10.9	2.2	0.05	337	1.70	<0.01
ZZ39772		4.72	53.6	2.81	4.42	<0.05	<0.02	0.02	0.032	0.17	5.4	6.1	0.10	368	2.44	<0.01
ZZ39773		2.42	33.8	3.64	4.25	<0.05	0.06	0.21	0.039	0.11	8.4	25.1	0.39	1010	2.18	<0.01
ZZ39774		1.95	24.6	4.82	7.62	<0.05	0.02	0.02	0.042	0.09	7.4	20.7	0.32	505	1.18	<0.01
ZZ39775		2.51	33.7	4.16	7.61	<0.05	0.02	0.08	0.037	0.08	8.2	20.8	0.38	1350	1.97	<0.01
ZZ39776		1.54	38.6	3.58	4.56	<0.05	0.04	0.09	0.037	0.07	15.0	21.4	0.54	747	1.46	0.01
ZZ39777		4.60	41.2	3.55	4.82	<0.05	0.08	0.12	0.040	0.09	6.5	27.3	0.49	628	1.06	0.01
ZZ39778		1.49	67.3	2.68	2.22	<0.05	0.04	0.13	0.037	0.08	5.2	12.0	0.18	191	10.75	0.01
ZZ39779		1.81	45.9	3.44	3.99	<0.05	0.07	0.13	0.042	0.10	9.7	22.5	0.50	351	6.19	0.01
ZZ39780		1.61	27.5	3.99	6.04	<0.05	0.03	0.05	0.038	0.08	7.7	21.5	0.39	513	2.09	0.01
ZZ39781		1.52	16.1	4.44	5.84	<0.05	<0.02	0.03	0.032	0.07	8.4	16.3	0.35	538	2.35	0.01
ZZ39782		1.57	12.3	2.91	5.57	<0.05	<0.02	0.04	0.025	0.06	7.6	8.5	0.22	306	1.65	<0.01
ZZ39783		1.82	29.0	2.92	4.39	<0.05	0.06	0.13	0.034	0.08	9.2	18.9	0.43	494	1.14	0.01
ZZ39784		1.97	46.3	3.66	4.62	<0.05	0.06	0.12	0.040	0.09	10.1	21.8	0.45	480	1.57	0.01
ZZ39785		1.26	28.5	3.77	4.93	<0.05	0.02	0.06	0.034	0.09	15.9	22.1	0.41	326	2.18	0.01
ZZ39786		1.05	50.6	3.52	2.26	<0.05	0.03	0.15	0.039	0.08	11.3	9.2	0.20	428	5.92	0.01
ZZ39787		1.55	50.6	2.99	3.28	0.05	0.05	0.12	0.039	0.08	15.1	15.2	0.29	458	2.67	0.01
ZZ39788		3.78	52.3	2.87	3.05	<0.05	0.04	0.12	0.023	0.08	6.8	15.6	0.39	866	0.97	0.01
ZZ39789		1.19	56.0	2.93	2.89	<0.05	0.05	0.11	0.032	0.08	8.3	13.7	0.28	847	2.75	0.01
ZZ39790		1.08	35.4	4.33	4.02	<0.05	0.05	0.09	0.035	0.08	7.0	21.7	0.37	1060	1.53	0.01
ZZ39791		2.56	80.8	3.18	1.01	<0.05	0.03	0.17	0.045	0.09	3.9	3.7	0.08	350	11.65	0.01
ZZ39792		2.17	20.6	3.56	3.93	<0.05	0.02	0.21	0.042	0.08	6.0	10.5	0.09	1450	1.53	<0.01
ZZ39793		1.81	53.3	3.82	1.50	<0.05	0.03	0.14	0.045	0.10	5.3	5.7	0.11	763	8.68	<0.01
ZZ39794		1.40	49.9	5.59	1.98	<0.05	0.03	0.56	0.058	0.08	6.1	6.1	0.26	594	4.34	0.01
ZZ39795		0.91	37.8	4.01	3.02	<0.05	0.05	0.38	0.041	0.08	8.5	13.1	0.32	647	2.22	0.01
ZZ39796		0.89	44.8	4.36	2.54	<0.05	0.05	0.23	0.045	0.08	7.5	9.0	0.26	487	4.01	0.01
ZZ39797		1.24	38.4	3.23	3.00	<0.05	0.04	0.23	0.038	0.09	9.3	13.6	0.30	590	3.74	0.01
ZZ39798		1.25	42.4	3.68	3.35	<0.05	0.05	0.22	0.041	0.10	9.7	15.4	0.38	510	2.55	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39759		0.31	30.6	640	21.2	12.2	0.002	0.10	0.33	7.8	1.3	0.5	28.6	<0.01	0.08	4.3
ZZ39760		0.24	28.3	800	22.3	15.0	0.001	0.08	0.34	8.3	2.0	0.6	36.4	<0.01	0.09	4.3
ZZ39761		0.56	26.8	280	11.8	13.0	0.001	<0.01	0.37	4.1	0.2	0.7	6.2	<0.01	0.16	3.7
ZZ39762		0.17	25.4	350	29.1	11.0	<0.001	0.01	0.58	4.2	0.6	0.5	5.2	<0.01	0.06	2.6
ZZ39763		0.24	34.0	300	20.2	10.6	0.001	<0.01	0.49	4.1	0.4	0.4	4.7	<0.01	0.13	3.9
ZZ39764		0.47	29.5	740	21.6	9.5	<0.001	0.02	0.60	7.9	1.1	0.4	24.5	<0.01	0.08	3.1
ZZ39765		0.80	31.5	530	22.0	12.0	<0.001	0.03	0.67	4.2	0.4	0.7	22.7	<0.01	0.10	2.8
ZZ39766		1.83	20.3	360	20.6	9.8	<0.001	0.01	0.76	2.8	0.3	1.0	14.2	0.01	0.05	3.2
ZZ39767		1.36	11.6	150	11.7	11.0	<0.001	<0.01	0.50	2.4	<0.2	0.8	7.7	<0.01	0.03	4.2
ZZ39768		1.14	38.4	700	18.7	10.6	<0.001	0.01	0.66	4.1	0.7	0.6	18.6	<0.01	0.07	5.2
ZZ39769		0.40	26.5	360	19.5	9.9	<0.001	<0.01	0.56	3.4	0.6	0.4	13.7	<0.01	0.04	5.2
ZZ39770		0.32	31.1	730	21.6	6.7	<0.001	0.01	0.62	5.8	0.5	0.3	34.1	<0.01	0.08	4.3
ZZ39771		0.86	11.2	370	10.9	16.8	0.001	0.01	0.77	1.8	0.5	1.0	5.5	<0.01	0.07	0.9
ZZ39772		0.42	15.1	700	13.9	22.5	<0.001	0.01	0.53	2.4	<0.2	0.7	7.4	<0.01	0.07	0.8
ZZ39773		0.36	28.3	580	28.0	15.2	<0.001	0.02	0.62	4.7	0.8	0.6	30.1	<0.01	0.05	3.0
ZZ39774		0.50	21.4	340	20.0	14.7	<0.001	0.01	0.38	3.6	0.4	1.0	8.2	<0.01	0.07	3.7
ZZ39775		0.59	24.8	440	22.8	13.8	<0.001	<0.01	0.60	3.8	0.6	0.9	8.6	<0.01	0.08	2.9
ZZ39776		0.53	31.9	750	21.6	7.5	<0.001	0.01	0.80	5.5	0.9	0.6	20.4	<0.01	0.04	4.2
ZZ39777		0.26	26.6	510	22.7	13.6	<0.001	0.05	0.41	5.7	0.9	0.6	59.5	<0.01	0.01	3.8
ZZ39778		0.13	45.9	590	12.8	11.7	0.001	0.02	5.09	3.9	4.6	0.4	26.6	<0.01	0.07	1.0
ZZ39779		0.24	36.8	1120	18.2	8.9	0.004	0.03	2.33	5.5	1.8	0.5	34.6	<0.01	0.05	3.1
ZZ39780		0.74	24.7	400	24.7	9.4	<0.001	0.02	0.83	3.3	0.3	0.6	7.6	<0.01	0.05	3.0
ZZ39781		1.08	19.4	470	23.3	13.7	<0.001	0.02	0.93	2.5	0.6	0.6	6.9	<0.01	0.06	2.0
ZZ39782		0.70	12.9	430	14.2	12.4	<0.001	0.02	0.61	1.6	0.4	0.6	6.6	<0.01	0.04	1.0
ZZ39783		0.36	25.9	610	19.5	9.1	<0.001	0.04	0.59	4.8	1.3	0.5	34.5	<0.01	0.05	3.1
ZZ39784		0.37	31.2	690	24.4	8.5	<0.001	0.03	0.70	6.0	1.1	0.5	25.4	<0.01	0.05	3.9
ZZ39785		0.50	30.7	790	16.8	9.5	<0.001	0.02	0.86	4.3	1.2	0.5	20.7	<0.01	0.03	2.1
ZZ39786		0.21	38.3	1530	21.2	7.0	0.002	0.03	2.37	4.6	1.8	0.4	23.6	<0.01	0.08	2.0
ZZ39787		0.43	33.1	1110	19.1	8.7	0.001	0.04	1.26	5.4	2.5	0.4	34.8	<0.01	0.07	2.0
ZZ39788		0.54	21.2	720	20.7	11.0	<0.001	0.10	0.53	4.2	1.5	0.7	74.5	<0.01	0.02	1.2
ZZ39789		0.36	26.4	720	19.3	7.8	0.002	0.06	1.45	4.0	1.9	0.4	39.6	<0.01	0.05	1.5
ZZ39790		0.41	28.3	300	28.0	9.1	<0.001	0.01	0.68	3.8	0.6	0.5	10.8	<0.01	0.04	4.3
ZZ39791		0.05	53.9	440	19.1	6.6	0.004	0.02	7.98	5.6	4.1	0.3	22.4	<0.01	0.08	2.5
ZZ39792		0.52	16.6	400	41.6	16.5	<0.001	0.02	0.67	2.6	0.4	0.7	6.0	<0.01	0.01	2.0
ZZ39793		0.10	48.3	550	21.8	7.5	0.002	0.01	3.58	5.2	2.4	0.3	19.4	<0.01	0.07	3.3
ZZ39794		0.09	49.6	860	26.6	7.2	0.001	0.02	0.90	9.0	1.1	0.4	44.0	<0.01	0.10	3.6
ZZ39795		0.24	37.2	780	22.3	7.0	<0.001	0.03	0.87	6.2	1.0	0.5	33.1	<0.01	0.05	3.0
ZZ39796		0.38	44.1	910	21.3	7.4	0.003	0.06	1.64	5.7	1.6	0.4	37.5	<0.01	0.06	2.2
ZZ39797		0.38	39.4	790	18.8	9.0	0.003	0.05	1.29	5.2	1.8	0.4	34.6	<0.01	0.02	2.4
ZZ39798		0.36	37.0	900	19.2	8.2	0.001	0.03	1.09	5.5	1.6	0.4	33.9	<0.01	0.03	2.8



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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39759		0.005	0.44	1.14	40	0.07	11.05	121	3.7
ZZ39760		<0.005	0.43	1.43	46	0.05	11.25	129	2.7
ZZ39761		0.012	0.12	0.46	66	0.10	3.12	51	2.2
ZZ39762		<0.005	0.19	0.37	36	<0.05	4.87	69	1.6
ZZ39763		0.006	0.08	0.38	59	0.05	2.87	71	3.8
ZZ39764		0.015	0.11	1.23	44	0.12	16.05	80	1.5
ZZ39765		0.014	0.16	0.55	58	0.18	4.14	94	1.2
ZZ39766		0.041	0.18	0.62	75	0.31	3.27	65	0.7
ZZ39767		0.031	0.16	0.51	62	0.23	2.48	37	2.4
ZZ39768		0.027	0.18	0.97	53	0.22	6.98	95	1.6
ZZ39769		0.010	0.10	0.94	35	0.10	6.18	73	1.3
ZZ39770		0.010	0.08	1.10	31	0.08	12.25	103	2.2
ZZ39771		0.037	0.11	0.63	59	0.23	2.15	51	<0.5
ZZ39772		0.011	0.16	0.55	29	0.10	3.30	40	<0.5
ZZ39773		0.006	0.15	1.15	47	0.09	7.21	105	1.8
ZZ39774		0.008	0.12	0.51	45	0.06	3.47	102	0.8
ZZ39775		0.008	0.19	0.57	60	0.11	3.64	92	0.7
ZZ39776		0.023	0.11	1.44	44	0.19	13.35	92	1.0
ZZ39777		0.005	0.08	3.23	24	0.07	12.30	93	1.8
ZZ39778		<0.005	0.32	1.09	38	<0.06	9.09	397	0.9
ZZ39779		0.005	0.18	1.21	47	<0.05	10.40	215	2.3
ZZ39780		0.013	0.14	0.81	65	0.16	2.74	99	0.7
ZZ39781		0.023	0.15	0.55	71	0.21	2.23	124	<0.5
ZZ39782		0.016	0.12	0.49	60	0.19	1.84	65	<0.5
ZZ39783		0.006	0.12	1.80	36	0.09	11.20	99	1.8
ZZ39784		0.007	0.10	1.33	33	0.08	13.55	102	1.9
ZZ39785		0.015	0.13	0.85	52	0.12	7.63	99	0.5
ZZ39786		0.006	0.16	1.21	28	<0.05	11.05	177	1.0
ZZ39787		0.011	0.14	1.53	29	0.10	15.00	112	1.5
ZZ39788		0.012	0.09	4.26	26	0.13	10.60	70	1.1
ZZ39789		0.007	0.12	2.17	34	0.09	10.05	130	1.3
ZZ39790		0.009	0.11	0.80	40	0.10	4.60	110	1.5
ZZ39791		<0.005	0.31	1.49	32	<0.05	11.05	483	1.8
ZZ39792		0.008	0.13	0.72	35	0.12	3.61	106	0.7
ZZ39793		<0.005	0.18	1.41	32	<0.05	8.92	350	1.5
ZZ39794		<0.005	0.16	1.39	44	<0.05	12.90	184	1.8
ZZ39795		<0.005	0.12	1.29	35	0.07	10.60	140	1.5
ZZ39796		0.005	0.19	1.19	41	0.10	10.25	174	1.7
ZZ39797		0.008	0.18	2.15	42	0.08	11.70	223	1.5
ZZ39798		0.008	0.19	1.55	41	0.10	11.95	151	1.8



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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39799		0.21	0.001	0.30	1.01	22.2	<0.2	<10	310	0.92	0.24	1.16	1.46	17.10	10.3	19
ZZ39800		0.30	0.003	0.41	1.27	11.5	<0.2	<10	600	0.84	0.26	0.55	2.73	21.5	11.6	24
ZZ39801		0.27	0.004	0.46	0.83	13.3	<0.2	<10	770	0.61	0.22	1.29	1.51	14.70	7.8	18
ZZ39802		0.41	0.004	0.31	1.51	22.1	<0.2	<10	410	0.96	0.30	0.67	0.59	21.3	14.0	27
ZZ39803		0.26	0.006	0.22	1.45	22.6	<0.2	<10	550	1.08	0.32	0.98	0.63	17.40	13.4	24
ZZ39804		0.32	0.003	0.39	1.55	23.4	<0.2	<10	680	0.97	0.27	0.89	0.78	24.6	14.7	26
ZZ39805		0.32	0.004	0.25	0.84	18.3	<0.2	<10	250	0.84	0.22	0.51	0.44	15.25	9.8	16
ZZ39806		0.28	0.002	0.23	1.36	17.8	<0.2	<10	280	0.77	0.29	0.43	0.41	15.80	10.8	23
ZZ39807		0.32	0.003	0.43	1.31	19.3	<0.2	<10	180	0.78	0.28	0.67	0.84	20.3	11.8	22
ZZ39808		0.32	0.003	0.41	1.48	18.1	<0.2	<10	340	1.35	0.34	0.57	3.30	20.6	18.0	24
ZZ39809		0.33	0.002	0.16	1.33	17.0	<0.2	<10	380	1.01	0.30	0.43	0.38	22.2	14.6	21
ZZ39810		0.28	0.001	0.07	0.67	21.8	<0.2	<10	100	0.48	0.26	0.05	0.92	15.80	8.9	12
ZZ39811		0.33	0.002	0.09	1.58	22.1	<0.2	<10	230	1.14	0.33	0.08	0.39	27.8	14.5	24
ZZ39812		0.30	0.003	0.45	0.33	9.2	<0.2	<10	140	0.37	0.22	0.40	0.42	5.18	4.7	15
ZZ39813		0.22	0.002	0.40	0.51	11.6	<0.2	<10	250	0.43	0.19	0.71	0.36	7.01	9.7	13
ZZ39814		0.30	0.003	0.31	0.42	14.9	<0.2	<10	180	0.43	0.21	0.36	0.15	6.19	4.3	11
ZZ39815		0.32	0.004	0.35	0.13	15.1	<0.2	<10	70	0.13	0.22	0.18	0.08	1.51	0.5	5
ZZ39816		0.26	0.003	0.34	0.46	14.5	<0.2	<10	220	0.73	0.21	0.41	1.45	10.10	10.3	15
ZZ39817		0.31	0.006	0.43	0.08	9.0	<0.2	<10	90	0.08	0.15	0.25	0.07	1.43	0.1	1
ZZ39818		0.26	0.004	1.01	0.90	250	<0.2	<10	470	1.69	0.44	1.44	4.92	13.15	40.3	112
ZZ39819		0.25	0.004	0.44	0.69	14.8	<0.2	<10	250	0.60	0.22	1.09	1.21	9.40	7.1	14
ZZ39820		0.33	0.009	0.49	0.82	18.9	<0.2	<10	620	0.59	0.20	1.28	2.15	11.45	12.7	14
ZZ39821		0.26	0.004	0.31	1.22	27.4	<0.2	<10	430	0.86	0.25	0.74	0.70	20.4	13.5	22
ZZ39822		0.32	0.006	0.63	1.33	20.0	<0.2	<10	590	0.84	0.23	1.34	1.07	19.20	10.9	27
ZZ39823		0.28	0.008	1.57	0.95	12.6	<0.2	<10	450	0.56	0.23	1.08	3.44	13.25	6.4	16
ZZ39824		0.19	0.003	0.41	1.13	15.2	<0.2	<10	320	0.55	0.20	1.33	1.07	15.15	10.7	23
ZZ39825		0.28	0.007	0.66	0.95	15.8	<0.2	<10	270	0.79	0.26	0.99	1.70	14.45	14.6	21
ZZ39826		0.34	0.005	0.68	0.64	23.1	<0.2	<10	270	0.68	0.20	0.98	2.19	13.35	9.3	20
ZZ39827		0.33	0.003	0.22	1.74	12.1	<0.2	<10	270	0.95	0.29	0.62	0.41	11.25	15.6	29
ZZ39828		0.33	0.002	0.18	1.53	13.6	<0.2	<10	310	0.80	0.26	0.50	0.38	8.60	12.8	25
ZZ39829		0.23	0.002	0.42	1.03	28.4	<0.2	<10	360	0.61	0.18	1.22	0.56	12.55	7.9	22
ZZ39830		0.27	0.001	0.07	1.36	22.3	<0.2	<10	130	0.42	0.22	0.04	0.56	8.94	8.2	23
ZZ39831		0.27	0.001	0.05	2.61	34.2	<0.2	<10	440	1.15	0.27	0.18	0.67	38.1	16.1	40
ZZ39832		0.23	0.001	0.11	1.25	18.5	<0.2	<10	360	0.50	0.23	1.71	0.57	20.0	11.2	22
ZZ39833		0.28	0.001	0.20	1.58	32.4	<0.2	<10	210	0.59	0.26	0.89	1.13	21.5	11.5	27
ZZ39834		0.27	0.002	0.20	2.32	43.1	<0.2	<10	270	0.81	0.25	0.45	0.93	23.2	11.0	32
ZZ39835		0.27	0.002	0.48	1.61	47.2	<0.2	<10	400	0.72	0.27	1.04	0.69	24.4	11.6	28
ZZ39836		0.33	0.002	0.43	1.53	45.1	<0.2	<10	320	0.89	0.26	2.49	1.03	21.3	13.9	25
ZZ39837		0.20	0.009	0.43	1.38	31.3	<0.2	<10	290	0.72	0.22	2.10	1.03	18.10	13.3	23
ZZ39838		0.26	0.003	0.51	1.53	49.8	<0.2	<10	250	0.88	0.27	1.53	1.21	22.9	15.1	26

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39799		0.83	40.4	3.96	3.11	<0.05	0.05	0.20	0.035	0.08	8.5	12.8	0.31	318	4.07	0.01
ZZ39800		0.99	27.2	2.96	3.17	<0.05	0.06	0.28	0.034	0.08	10.7	15.7	0.40	541	2.32	0.01
ZZ39801		0.88	37.2	2.58	2.40	<0.05	0.06	0.23	0.033	0.08	8.0	11.1	0.33	220	3.79	0.01
ZZ39802		1.24	46.4	3.96	4.46	<0.05	0.07	0.33	0.034	0.11	11.1	22.1	0.58	384	2.22	0.01
ZZ39803		1.13	43.3	3.79	4.24	<0.05	0.06	0.43	0.034	0.10	8.6	19.1	0.49	547	2.18	0.01
ZZ39804		0.86	51.1	3.68	4.62	<0.05	0.06	0.32	0.038	0.09	11.9	23.6	0.57	908	2.72	0.01
ZZ39805		1.54	38.4	2.82	2.50	<0.05	0.02	0.19	0.030	0.08	8.1	13.8	0.28	419	3.95	0.01
ZZ39806		1.88	35.9	3.40	4.10	<0.05	0.03	0.11	0.034	0.09	7.9	19.8	0.46	427	2.01	0.01
ZZ39807		1.64	38.3	3.57	3.84	<0.05	0.06	0.09	0.030	0.09	9.3	22.5	0.56	469	2.11	0.01
ZZ39808		3.25	53.3	4.42	4.31	<0.05	0.09	0.15	0.034	0.15	9.0	23.4	0.53	614	4.14	0.01
ZZ39809		0.88	36.7	4.01	3.94	<0.05	0.02	0.08	0.033	0.08	10.7	18.4	0.40	524	2.82	0.01
ZZ39810		1.58	44.0	3.42	3.37	<0.05	<0.02	0.01	0.039	0.05	7.6	2.8	0.05	248	10.80	<0.01
ZZ39811		1.13	29.4	4.23	3.97	<0.05	0.03	0.09	0.037	0.07	11.9	20.5	0.35	729	1.77	<0.01
ZZ39812		0.66	27.7	1.58	1.32	<0.05	0.02	0.11	0.036	0.03	2.6	2.3	0.04	121	6.87	<0.01
ZZ39813		0.62	23.4	2.60	1.70	<0.05	0.04	0.11	0.029	0.04	3.4	4.6	0.11	346	6.11	<0.01
ZZ39814		0.84	23.9	2.12	1.44	<0.05	0.02	0.13	0.027	0.04	3.1	4.0	0.07	128	14.85	<0.01
ZZ39815		0.75	15.1	1.01	0.67	<0.05	0.02	0.15	0.017	0.03	0.8	0.3	0.01	7	20.3	<0.01
ZZ39816		0.89	42.1	2.35	1.54	<0.05	0.04	0.15	0.043	0.03	4.9	2.3	0.04	202	9.52	<0.01
ZZ39817		0.44	8.7	0.57	0.36	<0.05	0.02	0.03	0.009	0.06	0.8	0.9	0.01	<5	10.85	<0.01
ZZ39818		1.24	99.9	10.00	5.05	0.07	0.03	0.17	0.156	0.19	9.8	7.6	0.20	847	59.8	0.02
ZZ39819		0.89	34.0	2.21	2.09	<0.05	0.06	0.21	0.032	0.07	4.6	10.3	0.27	231	5.33	<0.01
ZZ39820		1.13	38.0	2.77	2.58	<0.05	0.06	0.23	0.029	0.08	5.5	13.5	0.38	5020	9.91	<0.01
ZZ39821		0.87	51.5	3.60	3.72	0.06	0.06	0.40	0.036	0.08	9.0	19.4	0.50	533	3.48	<0.01
ZZ39822		1.05	50.8	3.40	3.92	<0.05	0.05	0.21	0.036	0.07	9.7	16.7	0.49	411	6.69	0.01
ZZ39823		1.61	81.2	1.98	3.25	<0.05	0.03	0.19	0.034	0.07	6.2	14.7	0.22	121	3.70	0.01
ZZ39824		0.80	29.4	2.73	3.49	<0.05	0.07	0.13	0.029	0.07	6.9	18.0	0.55	501	2.59	0.01
ZZ39825		1.02	58.0	3.27	2.99	0.05	0.05	0.16	0.043	0.09	6.9	18.4	0.38	447	4.29	0.01
ZZ39826		1.02	51.9	2.81	2.12	0.05	0.04	0.16	0.032	0.07	7.2	10.0	0.35	346	8.62	<0.01
ZZ39827		1.50	31.3	3.74	5.26	<0.05	0.05	0.08	0.042	0.09	5.0	39.5	0.60	509	1.80	0.01
ZZ39828		1.33	29.1	3.78	4.79	<0.05	0.04	0.07	0.035	0.09	3.8	32.8	0.53	544	1.95	0.01
ZZ39829		0.64	39.1	2.77	3.09	<0.05	0.05	0.22	0.031	0.07	8.5	14.6	0.35	266	2.50	<0.01
ZZ39830		1.69	17.4	3.95	3.98	<0.05	0.06	0.03	0.039	0.05	4.4	24.3	0.20	245	6.67	<0.01
ZZ39831		1.05	26.7	4.09	5.68	0.05	0.08	0.08	0.041	0.06	16.2	25.9	0.59	515	2.20	0.01
ZZ39832		0.69	20.3	2.73	3.72	<0.05	0.03	0.08	0.027	0.06	8.4	19.0	0.44	799	1.47	0.01
ZZ39833		1.19	15.2	2.91	5.19	<0.05	0.03	0.07	0.027	0.06	9.7	17.4	0.42	556	2.12	0.01
ZZ39834		1.64	25.3	3.82	5.31	<0.05	0.05	0.13	0.038	0.08	11.2	29.4	0.56	259	3.34	0.01
ZZ39835		1.04	24.9	3.17	4.73	<0.05	0.05	0.27	0.035	0.07	14.1	19.2	0.44	558	2.77	0.01
ZZ39836		0.99	40.1	3.37	4.36	0.05	0.06	0.33	0.030	0.10	13.0	23.9	0.55	523	3.26	0.01
ZZ39837		0.95	38.6	2.92	3.96	0.05	0.07	0.32	0.030	0.09	9.6	23.2	0.49	686	2.38	0.01
ZZ39838		1.00	41.9	3.49	4.39	0.05	0.06	0.39	0.031	0.10	13.0	25.7	0.53	548	4.62	0.01

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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ39799	0.43	37.8	790	17.9	7.5	0.004	0.06	1.34	4.5	2.9	0.4	37.8	<0.01	0.06	2.1	
ZZ39800	0.33	52.8	1020	18.2	8.0	0.001	0.04	0.85	5.6	1.2	0.4	35.1	<0.01	0.06	2.8	
ZZ39801	0.28	36.1	1040	15.2	7.1	0.009	0.10	1.65	3.8	2.7	0.3	51.8	<0.01	0.06	1.6	
ZZ39802	0.36	40.3	760	20.1	8.7	0.001	0.03	1.01	6.2	1.0	0.5	30.5	<0.01	0.07	3.7	
ZZ39803	0.37	38.0	670	20.9	9.5	<0.001	0.04	0.94	5.1	1.9	0.5	34.1	<0.01	0.05	2.5	
ZZ39804	0.36	38.8	840	18.6	7.6	0.001	0.03	0.99	6.0	1.6	0.4	32.9	<0.01	0.06	2.9	
ZZ39805	0.23	33.3	810	17.4	7.4	<0.001	0.02	1.50	4.0	1.4	0.3	39.2	<0.01	0.04	2.9	
ZZ39806	0.28	28.2	600	18.0	10.7	<0.001	0.03	0.83	4.4	0.8	0.4	29.0	<0.01	0.04	2.6	
ZZ39807	0.28	33.1	820	19.1	9.7	0.001	0.03	0.98	4.2	1.4	0.4	40.2	<0.01	0.08	2.7	
ZZ39808	0.23	45.9	740	23.7	15.1	0.002	0.07	1.63	6.5	2.7	0.5	41.8	<0.01	0.09	4.1	
ZZ39809	0.27	33.7	630	21.5	7.1	<0.001	0.01	1.01	4.9	1.1	0.5	25.6	<0.01	0.06	3.6	
ZZ39810	0.31	31.1	540	18.5	8.0	<0.001	0.01	4.30	2.5	2.9	0.6	5.7	<0.01	0.06	1.3	
ZZ39811	0.27	34.1	420	35.4	11.9	<0.001	0.01	0.77	4.3	0.8	0.5	10.4	<0.01	0.05	4.3	
ZZ39812	0.09	29.7	430	18.3	4.0	0.002	0.03	2.31	3.9	1.1	0.5	46.1	<0.01	0.08	0.9	
ZZ39813	0.11	32.9	610	13.9	5.3	0.003	0.05	1.75	4.1	1.3	0.5	34.4	<0.01	0.06	1.2	
ZZ39814	0.08	22.2	380	14.0	4.8	0.002	0.01	1.67	3.4	1.7	0.6	48.9	<0.01	0.07	1.1	
ZZ39815	<0.05	9.3	180	12.4	3.4	0.005	0.01	1.93	1.7	4.5	0.6	41.2	<0.01	0.13	0.5	
ZZ39816	0.08	51.2	560	17.4	4.2	0.003	0.02	2.83	7.1	2.6	0.6	50.6	<0.01	0.09	1.6	
ZZ39817	<0.05	2.3	140	10.2	3.6	0.001	0.11	1.46	0.4	1.2	0.5	85.3	<0.01	0.05	0.6	
ZZ39818	<0.05	180.5	6230	32.0	13.8	0.003	0.61	6.12	21.7	8.2	0.7	881	<0.01	0.71	2.6	
ZZ39819	0.14	31.6	740	14.0	7.3	0.008	0.09	1.47	3.8	2.3	0.4	55.8	<0.01	0.08	1.5	
ZZ39820	0.13	40.1	660	13.4	9.3	0.010	0.08	1.89	3.8	4.9	0.3	76.1	<0.01	0.06	1.7	
ZZ39821	0.23	45.2	580	18.2	6.3	0.003	0.02	1.24	5.7	1.9	0.3	37.6	<0.01	0.09	3.1	
ZZ39822	0.40	44.1	910	17.6	9.1	0.002	0.06	2.01	5.6	3.0	0.4	68.8	<0.01	0.07	1.9	
ZZ39823	0.38	40.0	540	14.6	9.9	0.002	0.05	1.64	4.2	3.1	0.5	62.8	<0.01	0.05	1.7	
ZZ39824	0.24	30.6	600	14.6	7.8	<0.001	0.07	1.00	3.8	2.3	0.3	58.1	<0.01	0.05	1.7	
ZZ39825	0.24	74.6	1030	16.8	8.0	0.003	0.04	2.18	6.0	3.0	0.4	56.0	<0.01	0.09	3.1	
ZZ39826	0.18	56.2	1130	15.8	6.0	0.001	0.04	2.54	5.1	3.5	0.4	84.5	<0.01	0.09	2.4	
ZZ39827	0.20	48.7	640	18.0	11.1	0.001	0.03	0.64	6.1	1.2	0.5	34.5	<0.01	0.05	3.2	
ZZ39828	0.17	41.2	710	14.9	11.3	<0.001	0.05	0.69	4.7	1.5	0.5	32.1	<0.01	0.07	2.6	
ZZ39829	0.19	33.2	450	13.1	6.7	0.001	0.05	0.77	4.5	2.3	0.3	31.0	<0.01	0.06	1.1	
ZZ39830	0.52	28.1	300	16.3	15.1	<0.001	0.02	1.30	2.7	1.1	0.5	20.3	<0.01	0.05	1.9	
ZZ39831	0.38	41.3	490	20.1	10.1	<0.001	0.01	0.70	6.5	1.1	0.6	14.3	<0.01	0.06	5.4	
ZZ39832	0.48	23.7	540	17.9	8.0	<0.001	0.04	0.53	2.8	1.0	0.3	30.9	<0.01	0.05	1.3	
ZZ39833	0.71	25.1	360	23.7	10.5	<0.001	0.02	0.66	3.2	0.8	0.6	18.5	<0.01	0.03	1.9	
ZZ39834	0.38	40.8	570	31.8	14.7	<0.001	0.02	0.70	4.4	1.0	0.5	18.6	<0.01	0.06	2.8	
ZZ39835	0.55	35.6	490	35.5	8.0	<0.001	0.02	0.88	4.8	1.3	0.5	25.5	<0.01	0.03	2.5	
ZZ39836	0.33	46.2	890	35.9	7.5	<0.001	0.04	0.90	4.7	1.5	0.4	48.0	<0.01	0.06	2.1	
ZZ39837	0.32	39.5	710	24.7	7.9	0.001	0.05	0.80	4.4	1.7	0.4	39.9	<0.01	0.03	1.8	
ZZ39838	0.32	55.7	730	28.3	7.8	0.001	0.03	0.90	5.6	2.3	0.4	37.6	<0.01	0.07	2.5	

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39799		0.008	0.14	3.15	46	0.08	10.55	209	1.6
ZZ39800		0.010	0.44	2.74	48	0.10	14.40	451	1.8
ZZ39801		0.007	0.27	2.18	51	0.11	11.35	226	1.7
ZZ39802		0.009	0.21	1.29	51	0.09	12.25	146	2.3
ZZ39803		0.007	0.17	1.86	43	0.08	10.10	133	1.8
ZZ39804		0.009	0.17	1.05	51	0.09	14.35	124	1.7
ZZ39805		0.007	0.22	1.38	41	0.07	13.40	149	0.8
ZZ39806		0.006	0.16	1.06	46	0.07	7.01	119	1.0
ZZ39807		0.010	0.14	1.51	42	0.07	9.10	129	1.8
ZZ39808		0.005	0.22	1.69	41	0.06	11.75	196	2.9
ZZ39809		0.007	0.11	0.99	43	0.07	9.45	133	0.7
ZZ39810		0.009	0.25	0.85	66	0.13	4.61	340	<0.5
ZZ39811		0.005	0.14	1.03	40	0.08	9.51	184	0.9
ZZ39812		<0.005	0.54	0.81	88	0.07	6.72	88	1.0
ZZ39813		<0.005	0.31	0.59	58	0.05	8.58	99	1.2
ZZ39814		<0.005	0.45	1.23	73	0.09	10.25	65	0.8
ZZ39815		<0.005	0.69	0.90	52	0.10	3.99	13	1.1
ZZ39816		<0.005	0.41	1.40	89	0.06	27.2	217	2.0
ZZ39817		<0.005	1.00	0.51	26	0.09	1.99	6	1.4
ZZ39818		<0.005	5.56	6.97	276	0.12	45.6	847	1.9
ZZ39819		<0.005	0.43	1.01	45	0.09	9.33	105	1.8
ZZ39820		<0.005	0.40	1.05	43	<0.05	9.91	123	1.9
ZZ39821		0.005	0.19	1.07	49	0.06	11.80	137	2.0
ZZ39822		0.007	0.32	4.50	76	0.10	13.80	135	1.5
ZZ39823		0.005	0.36	3.54	63	0.11	9.47	150	0.8
ZZ39824		<0.005	0.17	1.79	53	0.05	8.93	127	2.0
ZZ39825		<0.005	0.25	1.38	61	0.05	17.15	339	1.9
ZZ39826		<0.005	0.36	2.22	103	0.08	17.90	254	2.1
ZZ39827		<0.005	0.15	1.06	40	<0.05	10.35	127	1.8
ZZ39828		<0.005	0.18	0.79	38	<0.05	7.33	138	1.1
ZZ39829		<0.005	0.14	1.18	42	0.06	13.40	92	1.3
ZZ39830		0.006	0.45	0.60	85	0.11	2.73	131	1.9
ZZ39831		0.006	0.19	1.20	66	0.12	11.45	110	2.5
ZZ39832		0.011	0.10	1.20	41	0.17	6.58	80	1.1
ZZ39833		0.016	0.18	1.30	58	0.16	5.27	150	0.9
ZZ39834		<0.005	0.35	1.84	60	0.11	11.15	162	1.6
ZZ39835		0.011	0.31	1.19	54	0.18	15.90	125	1.5
ZZ39836		0.006	0.33	1.26	45	0.09	20.7	161	1.9
ZZ39837		0.006	0.32	1.24	38	0.08	13.75	156	2.2
ZZ39838		0.006	0.41	1.88	47	0.13	21.0	174	2.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39839		0.29	0.003	0.29	1.38	31.4	<0.2	<10	300	0.85	0.26	1.78	0.63	17.35	13.8	22
ZZ39840		0.27	0.005	0.34	1.67	35.6	<0.2	<10	240	0.88	0.32	1.01	0.92	26.5	17.4	27
ZZ39841		0.22	<0.001	0.24	1.14	55.1	<0.2	<10	250	0.64	0.21	2.00	0.64	15.75	13.1	20
ZZ39842		0.28	0.001	0.34	1.64	32.1	<0.2	<10	270	0.76	0.26	1.01	0.61	23.1	17.2	27
ZZ39843		0.24	0.003	0.24	1.68	23.9	<0.2	<10	300	0.81	0.30	1.15	0.53	24.0	16.6	26
ZZ39844		0.19	0.002	0.26	1.41	46.2	<0.2	<10	430	0.70	0.24	1.66	0.59	17.15	13.1	22
ZZ39845		0.25	0.002	0.19	1.38	53.8	<0.2	<10	300	0.71	0.21	1.10	0.75	18.15	12.3	23
ZZ39846		0.29	0.002	0.10	1.71	19.2	<0.2	<10	400	0.84	0.24	0.40	0.36	22.4	14.0	26
ZZ39847		0.29	0.003	0.31	1.19	27.8	<0.2	<10	370	0.86	0.27	2.08	0.79	19.80	13.5	21
ZZ39848		0.32	0.003	0.55	1.27	60.2	<0.2	<10	610	0.98	0.27	2.07	1.19	23.0	13.1	25
ZZ39849		0.27	0.002	0.15	1.94	17.7	<0.2	<10	230	1.06	0.30	0.44	0.34	35.3	15.0	30
ZZ39850		0.26	0.003	0.16	1.79	15.6	<0.2	<10	280	0.87	0.29	0.54	0.26	34.2	13.1	29
ZZ39851		0.27	0.002	0.36	1.46	18.0	<0.2	<10	430	0.84	0.26	1.40	0.57	21.5	15.8	24
ZZ39852		0.25	0.002	0.30	1.52	17.7	<0.2	<10	470	0.81	0.25	1.47	0.56	20.2	13.9	24
ZZ39853		0.31	0.001	0.30	1.38	22.2	<0.2	<10	360	0.89	0.26	1.71	0.76	25.4	15.6	24
ZZ39854		0.28	0.002	0.21	1.46	16.6	<0.2	<10	370	0.81	0.25	1.19	0.41	22.0	13.8	24
ZZ39855		0.27	0.002	0.32	1.50	14.0	<0.2	<10	430	0.88	0.25	1.36	0.66	23.6	13.4	25
ZZ39856		0.24	0.003	0.34	1.55	22.3	<0.2	<10	420	0.89	0.27	1.24	0.54	23.6	12.5	27
ZZ39857		0.31	0.003	0.34	1.54	24.0	<0.2	<10	470	0.92	0.27	1.11	0.80	24.2	17.5	26
ZZ39858		0.24	0.002	0.24	1.35	14.8	<0.2	<10	400	0.85	0.25	1.07	0.66	20.2	12.6	25
ZZ39859		0.23	0.002	0.23	1.27	13.7	<0.2	10	280	0.95	0.26	1.32	0.53	20.1	11.4	22
ZZ39860		0.29	0.002	0.28	1.30	21.9	<0.2	<10	280	0.92	0.26	0.89	0.67	26.4	12.0	25
ZZ39861		0.25	0.003	0.27	1.62	20.2	<0.2	<10	320	1.16	0.31	0.69	0.58	28.7	13.7	29
ZZ39862		0.29	0.002	0.20	1.08	16.2	<0.2	<10	270	0.96	0.28	0.71	0.26	22.1	11.6	21
ZZ39863		0.32	0.001	0.12	0.86	17.1	<0.2	<10	220	1.11	0.26	0.66	0.42	13.95	17.2	15
ZZ39864		0.35	0.001	0.16	0.86	18.3	<0.2	<10	220	1.35	0.31	0.49	0.52	14.60	17.0	15
ZZ39865		0.17	0.001	0.19	1.11	13.2	<0.2	<10	320	0.90	0.24	1.14	0.65	17.85	9.9	20
ZZ39866		0.34	0.002	0.17	1.28	22.4	<0.2	<10	320	1.20	0.33	0.71	0.47	18.55	16.7	22
ZZ39867		0.29	0.002	0.21	1.29	14.9	<0.2	<10	270	1.39	0.37	0.72	0.40	16.85	12.2	23
ZZ39868		0.25	0.002	0.19	1.54	14.9	<0.2	<10	270	1.55	0.40	0.43	0.35	20.3	15.1	27
ZZ39869		0.40	0.005	0.14	1.46	12.1	<0.2	<10	180	1.43	0.42	0.40	0.20	15.30	13.1	27
ZZ39870		0.27	0.002	0.26	1.19	26.7	<0.2	<10	370	1.12	0.37	0.32	0.87	28.0	16.1	34
ZZ39871		0.25	0.003	0.36	1.13	34.3	<0.2	<10	480	1.38	0.33	0.37	2.01	21.0	13.8	39
ZZ39872		0.31	0.045	0.40	1.09	28.7	<0.2	<10	480	1.16	0.32	0.89	1.57	19.15	12.4	39
ZZ39873		0.27	0.002	0.26	1.22	11.5	<0.2	<10	310	1.11	0.29	1.19	0.89	17.25	11.7	25
ZZ39874		0.33	0.001	0.24	1.32	13.4	<0.2	<10	310	1.04	0.31	0.45	0.51	19.05	10.9	26
ZZ39875		0.28	0.002	0.28	1.25	14.7	<0.2	<10	430	0.82	0.25	1.06	0.74	19.10	8.9	24
ZZ39876		0.29	0.002	0.50	1.12	13.6	<0.2	<10	300	0.93	0.26	1.21	0.65	18.20	7.2	22
ZZ39877		0.20	0.003	0.31	1.09	15.1	<0.2	<10	270	0.99	0.25	1.26	0.80	17.90	9.3	20
ZZ39878		0.27	0.002	0.23	1.15	13.3	<0.2	<10	360	0.93	0.25	0.83	0.75	20.0	10.4	22

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39839		1.26	37.2	3.27	3.91	<0.05	0.08	0.28	0.030	0.09	9.9	21.1	0.44	621	2.31	0.01
ZZ39840		1.22	46.0	3.94	4.78	<0.05	0.07	0.20	0.035	0.10	13.6	30.1	0.62	1020	2.67	0.01
ZZ39841		1.23	35.2	3.21	3.36	<0.05	0.06	0.17	0.030	0.08	8.2	20.1	0.50	583	1.33	0.01
ZZ39842		1.40	59.6	4.06	4.87	0.05	0.08	0.22	0.034	0.11	12.4	29.0	0.72	422	1.74	0.01
ZZ39843		1.06	52.5	3.94	4.75	<0.05	0.09	0.21	0.032	0.11	11.9	33.5	0.67	656	1.21	0.01
ZZ39844		0.80	46.5	3.38	3.97	<0.05	0.05	0.20	0.029	0.08	8.6	21.6	0.54	630	1.38	0.01
ZZ39845		0.76	38.5	3.18	4.25	<0.05	0.07	0.22	0.028	0.08	8.7	21.0	0.54	378	1.50	0.01
ZZ39846		0.92	39.7	3.71	5.20	<0.05	0.04	0.04	0.033	0.07	9.6	27.6	0.50	385	1.87	0.01
ZZ39847		1.20	40.5	3.43	3.85	<0.05	0.06	0.27	0.039	0.09	9.2	17.5	1.16	651	2.30	0.01
ZZ39848		1.67	56.1	3.45	4.21	<0.05	0.07	0.37	0.040	0.12	10.5	23.9	0.85	452	2.65	0.01
ZZ39849		1.33	51.6	3.99	5.91	0.05	0.12	0.06	0.035	0.15	16.3	43.4	0.79	638	1.03	0.01
ZZ39850		1.08	48.9	3.80	5.56	<0.05	0.10	0.10	0.035	0.12	15.5	38.3	0.79	381	1.12	0.01
ZZ39851		0.96	51.2	3.36	4.64	<0.05	0.08	0.19	0.034	0.11	10.0	25.2	0.70	752	1.50	0.01
ZZ39852		0.97	53.8	3.46	4.55	<0.05	0.08	0.19	0.033	0.11	9.9	24.1	0.64	736	1.41	0.01
ZZ39853		1.40	53.4	3.84	4.51	0.06	0.08	0.21	0.040	0.11	12.2	25.3	1.20	781	2.06	0.01
ZZ39854		1.05	48.6	3.42	4.64	0.05	0.09	0.21	0.032	0.10	10.7	26.9	0.66	498	1.43	0.01
ZZ39855		1.00	51.5	3.24	4.60	0.05	0.09	0.19	0.034	0.12	10.8	28.9	0.68	452	1.09	0.01
ZZ39856		1.39	53.1	3.58	4.82	<0.05	0.08	0.26	0.034	0.13	11.7	28.7	0.75	505	1.54	0.01
ZZ39857		1.29	57.7	3.96	4.56	0.06	0.09	0.25	0.034	0.13	11.5	27.4	0.85	1050	2.29	0.01
ZZ39858		1.42	43.0	3.29	4.39	<0.05	0.09	0.22	0.031	0.12	9.3	26.7	0.63	838	1.23	0.01
ZZ39859		1.52	40.4	3.06	3.92	<0.05	0.08	0.26	0.034	0.12	9.4	25.7	0.65	360	1.05	0.01
ZZ39860		1.27	36.9	3.76	4.03	0.05	0.08	0.20	0.031	0.12	11.8	22.7	0.68	674	1.98	0.01
ZZ39861		1.75	56.3	3.88	5.14	0.06	0.10	0.22	0.036	0.17	14.4	31.6	0.71	533	1.61	0.01
ZZ39862		1.02	39.7	3.85	3.38	<0.05	0.06	0.12	0.045	0.11	10.4	16.9	0.36	515	1.75	0.01
ZZ39863		0.99	39.2	4.74	2.62	<0.05	0.05	0.09	0.052	0.09	6.1	11.3	0.26	587	2.53	0.01
ZZ39864		1.35	45.8	4.42	2.51	<0.05	0.04	0.12	0.055	0.10	6.8	11.9	0.24	624	3.49	0.01
ZZ39865		0.85	34.7	2.92	3.48	<0.05	0.06	0.18	0.032	0.09	8.5	18.3	0.34	665	1.30	0.01
ZZ39866		2.16	44.3	4.78	4.21	<0.05	0.07	0.17	0.031	0.10	8.3	22.5	0.43	921	1.59	0.01
ZZ39867		2.16	46.3	3.39	4.10	<0.05	0.07	0.18	0.035	0.10	8.1	22.5	0.41	513	1.44	0.01
ZZ39868		2.39	46.2	3.67	5.31	<0.05	0.07	0.21	0.041	0.11	9.2	29.1	0.47	431	1.34	0.01
ZZ39869		2.51	36.9	3.67	5.03	<0.05	0.06	0.12	0.040	0.10	7.2	27.9	0.49	449	1.23	0.01
ZZ39870		0.84	47.4	3.87	3.98	<0.05	0.04	0.31	0.046	0.10	12.0	18.8	0.34	830	3.16	0.01
ZZ39871		1.14	57.9	3.89	3.69	<0.05	0.03	0.35	0.052	0.12	9.7	16.3	0.28	703	7.90	0.01
ZZ39872		1.31	48.3	3.68	3.72	<0.05	0.06	0.43	0.044	0.12	8.8	16.5	0.44	480	4.10	0.01
ZZ39873		1.28	34.3	2.57	3.90	<0.05	0.07	0.22	0.039	0.10	8.1	20.2	0.35	519	1.20	0.01
ZZ39874		1.44	35.0	3.40	4.31	0.05	0.07	0.19	0.033	0.10	9.4	22.5	0.43	926	1.65	0.01
ZZ39875		0.80	29.2	2.61	3.74	<0.05	0.05	0.24	0.030	0.07	8.9	18.1	0.37	502	1.85	0.01
ZZ39876		1.03	38.7	2.72	3.40	<0.05	0.06	0.25	0.030	0.10	8.5	18.3	0.38	161	1.87	0.01
ZZ39877		1.18	42.4	3.12	3.36	<0.05	0.07	0.23	0.037	0.09	8.5	18.0	0.35	212	1.80	0.01
ZZ39878		1.06	36.6	2.91	3.70	<0.05	0.06	0.19	0.034	0.09	9.6	20.1	0.41	271	1.39	0.01

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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39839		0.29	39.2	660	21.5	7.5	0.001	0.04	0.66	4.8	1.7	0.4	38.5	<0.01	0.04	2.3
ZZ39840		0.29	44.3	890	28.3	8.4	<0.001	0.02	0.73	6.2	1.5	0.4	31.7	<0.01	0.09	3.2
ZZ39841		0.15	32.9	720	18.3	7.9	0.001	0.07	0.55	4.0	1.6	0.3	40.3	<0.01	0.06	1.6
ZZ39842		0.20	45.3	810	19.4	8.7	<0.001	0.03	0.69	7.3	1.0	0.3	34.7	<0.01	0.08	2.9
ZZ39843		0.28	39.2	710	21.5	8.1	<0.001	0.03	0.62	6.1	1.0	0.4	41.4	<0.01	0.08	3.4
ZZ39844		0.22	31.4	710	18.3	6.7	0.001	0.06	0.72	4.1	1.5	0.3	39.2	<0.01	0.06	1.4
ZZ39845		0.27	32.0	710	16.3	6.7	0.001	0.04	0.69	4.6	1.4	0.3	29.6	<0.01	0.06	1.9
ZZ39846		0.27	34.9	270	16.6	9.4	<0.001	0.01	0.70	4.7	1.1	0.5	19.9	<0.01	0.08	3.1
ZZ39847		0.49	39.6	730	22.2	8.2	<0.001	0.01	1.19	5.7	1.1	0.4	35.0	<0.01	0.08	4.3
ZZ39848		0.44	44.5	750	21.7	8.9	<0.001	0.04	1.45	6.1	2.2	0.5	63.6	<0.01	0.06	4.2
ZZ39849		0.21	35.9	570	17.8	9.6	<0.001	0.02	0.60	6.2	0.5	0.4	31.4	<0.01	0.06	5.1
ZZ39850		0.19	33.9	760	17.0	8.2	<0.001	0.03	0.62	5.6	0.9	0.3	36.9	<0.01	0.06	4.4
ZZ39851		0.23	37.8	610	21.4	8.4	0.001	0.05	0.82	5.7	1.4	0.4	52.9	<0.01	0.07	3.2
ZZ39852		0.23	36.3	670	17.5	8.2	0.002	0.05	0.77	5.4	0.8	0.4	51.9	<0.01	0.06	2.5
ZZ39853		0.25	43.4	780	19.7	8.3	0.001	0.02	0.91	6.7	1.1	0.4	44.2	<0.01	0.07	4.8
ZZ39854		0.24	35.2	700	17.6	8.3	0.001	0.04	0.78	5.6	0.7	0.4	52.9	<0.01	0.08	3.0
ZZ39855		0.29	35.8	650	18.4	8.1	<0.001	0.06	0.75	5.8	1.0	0.4	50.8	<0.01	0.05	3.0
ZZ39856		0.30	36.3	730	18.0	9.6	<0.001	0.05	0.88	6.4	0.9	0.4	51.2	<0.01	0.07	3.4
ZZ39857		0.23	43.3	670	21.1	8.8	0.001	0.03	0.94	6.6	1.4	0.4	45.1	<0.01	0.07	4.6
ZZ39858		0.28	32.2	640	18.4	9.8	0.005	0.10	0.64	5.5	1.9	0.3	59.4	<0.01	0.03	3.3
ZZ39859		0.33	30.3	670	19.2	12.0	0.001	0.11	0.58	5.3	1.3	0.4	71.4	<0.01	0.03	2.9
ZZ39860		0.40	35.6	850	20.0	9.4	<0.001	0.03	0.85	6.2	0.8	0.4	45.1	<0.01	0.04	3.9
ZZ39861		0.23	40.5	880	20.7	11.6	<0.001	0.03	0.80	7.3	0.6	0.4	37.4	<0.01	0.04	4.8
ZZ39862		0.30	35.1	720	19.8	9.3	<0.001	0.06	0.60	6.3	0.7	0.4	42.9	<0.01	0.04	2.8
ZZ39863		0.18	44.9	760	19.9	7.6	<0.001	0.05	0.58	7.1	1.3	0.3	44.4	<0.01	0.02	2.8
ZZ39864		0.11	56.1	900	20.3	8.4	<0.001	0.03	0.66	8.4	1.2	0.3	52.0	<0.01	0.04	3.3
ZZ39865		0.36	27.1	800	16.7	9.0	<0.001	0.08	0.60	4.9	1.6	0.4	64.0	<0.01	0.04	2.1
ZZ39866		0.34	35.1	700	22.5	10.8	<0.001	0.07	0.64	5.7	1.4	0.4	44.2	<0.01	0.06	3.5
ZZ39867		0.32	30.0	630	22.7	11.2	<0.001	0.05	0.62	5.5	1.5	0.5	41.6	<0.01	0.01	3.3
ZZ39868		0.37	32.5	530	26.2	11.5	<0.001	0.03	0.47	6.3	1.6	0.6	33.2	<0.01	0.03	4.7
ZZ39869		0.30	30.5	460	21.6	9.9	<0.001	0.03	0.47	5.6	0.7	0.6	23.0	<0.01	0.04	4.6
ZZ39870		0.31	46.4	750	28.2	7.6	<0.001	0.03	1.50	6.2	1.5	0.5	44.4	<0.01	0.06	5.3
ZZ39871		0.26	55.2	970	24.1	9.2	<0.001	0.07	2.55	7.5	2.0	0.5	67.4	<0.01	0.14	4.1
ZZ39872		0.36	44.6	1000	23.4	9.6	0.001	0.05	1.70	6.3	1.8	0.5	65.6	<0.01	0.08	4.2
ZZ39873		0.38	27.9	700	20.6	11.8	0.005	0.12	0.55	5.1	3.0	0.5	39.3	<0.01	0.02	2.8
ZZ39874		0.35	32.0	710	16.5	9.8	<0.001	0.03	0.61	5.9	0.8	0.5	24.5	<0.01	0.02	4.7
ZZ39875		0.49	24.3	730	19.5	8.2	0.003	0.08	0.87	4.5	2.3	0.4	35.7	<0.01	0.04	2.6
ZZ39876		0.36	26.9	740	19.1	8.9	0.004	0.11	1.34	5.0	2.4	0.5	48.2	<0.01	0.05	2.3
ZZ39877		0.36	28.9	730	18.1	10.0	0.004	0.12	0.95	5.2	2.6	0.4	49.1	<0.01	0.06	2.3
ZZ39878		0.35	29.6	690	18.7	8.5	0.002	0.08	0.79	4.9	1.6	0.4	39.6	<0.01	0.04	3.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39839		0.005	0.29	1.30	39	0.11	15.05	124	2.2
ZZ39840		0.007	0.24	0.87	45	0.12	16.65	131	2.1
ZZ39841		<0.005	0.15	1.27	34	<0.05	12.05	124	1.8
ZZ39842		0.005	0.20	0.83	45	0.06	16.80	134	2.2
ZZ39843		0.006	0.14	0.95	42	0.06	13.95	111	2.8
ZZ39844		<0.005	0.13	1.64	39	0.08	11.55	105	1.7
ZZ39845		0.005	0.17	1.79	47	0.06	11.25	125	1.8
ZZ39846		0.005	0.12	0.72	57	0.07	6.90	90	1.5
ZZ39847		0.011	0.22	0.85	46	0.08	11.50	155	2.5
ZZ39848		0.009	0.27	1.05	55	0.10	12.65	170	3.3
ZZ39849		0.008	0.11	0.80	47	0.06	8.69	95	4.1
ZZ39850		0.007	0.10	1.00	45	0.06	9.16	104	3.0
ZZ39851		0.006	0.11	1.16	42	0.07	10.80	107	2.8
ZZ39852		0.006	0.13	1.20	43	0.05	11.70	111	2.5
ZZ39853		0.007	0.20	0.84	45	0.05	12.05	132	3.5
ZZ39854		0.006	0.14	1.50	42	0.05	11.25	107	2.8
ZZ39855		0.005	0.15	0.91	44	0.05	11.05	116	3.0
ZZ39856		0.007	0.17	1.19	49	0.06	12.15	140	2.8
ZZ39857		0.006	0.19	1.06	50	0.05	13.50	140	3.3
ZZ39858		0.006	0.17	1.49	43	0.05	10.10	141	2.4
ZZ39859		0.006	0.14	1.26	39	0.05	10.30	124	2.5
ZZ39860		0.011	0.19	1.27	50	0.09	11.55	150	2.1
ZZ39861		0.007	0.20	1.06	52	0.05	13.85	142	3.6
ZZ39862		0.006	0.13	1.96	43	0.06	10.80	127	1.6
ZZ39863		<0.005	0.10	2.63	34	<0.05	9.01	154	1.5
ZZ39864		<0.005	0.20	2.44	35	<0.05	12.60	153	1.7
ZZ39865		0.006	0.14	3.42	40	0.06	9.95	137	1.5
ZZ39866		0.006	0.14	1.73	33	0.08	9.98	113	2.0
ZZ39867		0.006	0.12	2.43	34	0.07	10.75	120	1.9
ZZ39868		0.006	0.11	2.02	36	0.07	11.15	115	2.1
ZZ39869		0.007	0.08	1.08	29	0.06	9.30	110	2.1
ZZ39870		0.010	0.27	1.42	61	0.07	13.30	156	1.6
ZZ39871		0.006	0.55	2.25	76	0.08	17.15	190	2.0
ZZ39872		0.007	0.41	1.58	65	0.08	12.35	177	2.9
ZZ39873		0.005	0.15	2.69	41	0.06	9.23	140	2.0
ZZ39874		0.010	0.11	1.11	38	0.08	11.60	124	2.0
ZZ39875		0.006	0.17	2.45	52	0.11	9.22	124	1.6
ZZ39876		0.006	0.23	2.69	50	0.05	9.69	127	2.0
ZZ39877		0.005	0.16	2.26	41	0.05	10.20	129	2.3
ZZ39878		0.006	0.15	1.64	43	0.06	9.47	119	2.1



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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39879		0.25	0.007	0.29	1.28	14.0	<0.2	<10	340	0.91	0.26	1.11	0.77	19.50	9.5	23
ZZ39880		0.26	0.002	0.28	1.17	13.4	<0.2	<10	370	0.90	0.25	1.04	1.04	20.4	9.8	22
ZZ39881		0.37	0.003	0.35	1.45	19.7	<0.2	<10	410	1.02	0.30	0.72	1.07	26.0	14.2	27
ZZ39882		0.36	0.012	0.27	1.16	23.4	<0.2	<10	320	1.00	0.27	0.90	0.70	22.4	12.0	24
ZZ39883		0.33	0.003	0.27	1.52	22.9	<0.2	<10	480	0.90	0.29	3.73	0.37	30.2	14.6	25
ZZ39884		0.23	0.002	0.36	1.30	13.4	<0.2	<10	610	1.08	0.21	1.83	1.10	21.5	9.9	23
ZZ39885		0.25	0.003	0.22	1.46	13.0	<0.2	<10	550	0.98	0.24	1.17	0.42	19.00	15.0	24
ZZ39886		0.27	0.001	0.04	1.39	22.6	<0.2	<10	240	0.98	0.32	0.24	0.60	13.85	10.5	23
ZZ39887		0.30	0.002	0.29	2.04	21.3	<0.2	<10	340	1.05	0.26	0.33	0.43	26.3	15.3	31
ZZ39888		0.23	0.003	0.35	1.44	21.3	<0.2	<10	770	1.17	0.25	1.22	0.60	18.80	14.7	27
ZZ39889		0.40	0.005	0.46	1.20	23.0	<0.2	<10	570	0.87	0.22	2.58	0.69	15.00	13.3	24
ZZ39890		0.34	0.003	0.86	1.05	17.3	<0.2	<10	710	0.80	0.20	1.41	0.74	14.30	9.1	25
ZZ39891		0.28	0.002	0.54	1.06	18.5	<0.2	<10	490	0.78	0.18	2.06	0.93	17.50	10.1	24
ZZ39892		0.35	0.003	0.44	1.24	21.8	<0.2	<10	390	0.89	0.22	1.70	1.01	20.2	12.6	23
ZZ39893		0.35	0.003	0.45	1.11	18.2	<0.2	<10	600	0.80	0.19	1.88	1.02	17.25	10.2	23
ZZ39894		0.32	0.003	0.41	1.35	23.7	<0.2	<10	520	0.99	0.26	1.09	0.96	20.6	13.3	26
ZZ39895		0.29	0.002	0.42	1.25	17.0	<0.2	<10	730	0.83	0.20	1.57	1.13	17.90	10.7	24
ZZ39896		0.28	0.004	0.35	1.32	18.4	<0.2	<10	630	0.83	0.22	1.89	0.92	19.40	10.3	26
ZZ39897		0.34	0.004	0.44	1.21	17.3	<0.2	<10	500	0.91	0.25	1.30	0.72	17.35	11.7	23
ZZ39898		0.34	0.003	0.29	0.99	53.7	<0.2	<10	540	0.76	0.22	4.24	0.79	18.35	12.0	19
ZZ39899		0.38	0.003	0.28	1.22	93.2	<0.2	<10	480	0.91	0.22	3.87	0.79	18.80	13.7	21
ZZ39900		0.31	0.003	0.22	1.38	18.4	<0.2	<10	380	0.85	0.23	1.21	1.11	30.4	11.2	29
ZZ39901		0.26	0.003	0.35	1.18	29.0	<0.2	<10	430	0.87	0.22	1.50	0.86	19.40	11.7	23
ZZ39902		0.30	0.002	0.22	2.12	34.9	<0.2	<10	540	1.42	0.22	0.56	1.35	40.8	9.0	35
ZZ39903		0.34	0.007	0.46	1.39	35.0	<0.2	<10	520	1.12	0.23	1.08	0.76	24.6	14.6	28
ZZ39904		0.28	0.004	0.33	1.63	18.6	<0.2	<10	520	0.91	0.24	1.20	1.48	32.7	12.9	33
ZZ39905		0.30	0.003	0.19	2.16	14.3	<0.2	<10	270	1.03	0.31	3.09	0.48	30.9	18.6	30
ZZ39906		0.30	0.003	0.33	1.36	11.3	<0.2	<10	570	0.85	0.21	2.44	4.05	21.4	9.8	27
ZZ39907		0.38	0.002	0.32	1.25	39.8	<0.2	<10	440	0.84	0.20	1.10	1.79	21.3	11.4	26
ZZ39908		0.26	0.003	0.10	1.95	13.1	<0.2	<10	270	0.58	0.25	0.18	0.28	30.8	7.9	30
ZZ39909		0.27	0.002	0.09	1.97	18.6	<0.2	<10	310	0.64	0.25	0.18	0.29	27.0	10.5	30
ZZ39910		0.29	0.002	0.06	1.59	22.4	<0.2	<10	400	0.53	0.24	0.49	0.65	22.5	8.1	30
ZZ39911		0.40	0.003	0.23	1.04	22.6	<0.2	<10	190	0.61	0.20	5.04	1.26	19.15	10.3	20
ZZ39912		0.27	0.004	0.32	1.53	29.5	<0.2	<10	470	0.74	0.23	1.19	0.85	24.1	11.2	28
ZZ39913		0.30	0.005	0.67	1.38	45.3	<0.2	<10	450	1.12	0.21	0.47	0.90	21.3	9.8	37
ZZ39914		0.34	0.003	0.40	1.10	20.6	<0.2	<10	480	0.81	0.19	4.64	1.46	20.5	9.4	22
ZZ39915		0.34	0.002	0.23	1.67	23.6	<0.2	<10	540	0.97	0.24	1.35	0.91	29.3	12.9	29
ZZ39916		0.29	0.001	0.10	1.90	24.1	<0.2	<10	310	1.03	0.21	0.16	0.40	24.5	11.2	31
ZZ39917		0.30	0.002	0.35	1.66	24.4	<0.2	<10	130	0.63	0.27	0.07	0.60	21.9	7.8	27
ZZ39918		0.22	0.003	0.23	1.50	25.0	<0.2	<10	420	0.94	0.26	0.22	0.89	20.8	10.7	27



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39879		1.16	36.4	3.44	4.04	<0.05	0.07	0.29	0.034	0.10	9.6	21.7	0.38	238	1.26	0.01
ZZ39880		1.01	40.0	2.75	3.73	<0.05	0.07	0.27	0.032	0.10	9.3	18.8	0.35	215	1.29	0.01
ZZ39881		1.14	41.8	3.95	4.68	0.05	0.07	0.26	0.040	0.13	12.1	22.2	0.49	398	1.89	0.01
ZZ39882		1.04	32.4	3.48	3.84	<0.05	0.06	0.33	0.033	0.10	10.4	18.0	0.47	418	2.12	0.01
ZZ39883		1.88	58.6	4.00	4.65	0.05	0.23	0.14	0.034	0.13	13.2	36.9	0.86	530	1.83	<0.01
ZZ39884		0.69	42.9	2.69	3.59	0.05	0.04	0.50	0.030	0.07	13.1	15.0	0.41	916	1.22	0.01
ZZ39885		0.88	27.9	3.15	4.24	<0.05	0.04	0.13	0.034	0.07	8.9	18.4	0.38	640	2.50	0.01
ZZ39886		1.18	27.1	4.07	3.83	<0.05	0.03	0.15	0.046	0.10	4.6	22.6	0.21	670	2.44	0.01
ZZ39887		1.35	24.5	4.27	5.16	0.05	0.06	0.08	0.043	0.08	11.2	21.8	0.37	729	2.48	0.01
ZZ39888		0.77	41.3	3.70	4.18	0.05	0.06	0.29	0.037	0.08	9.1	19.8	0.50	507	2.72	0.01
ZZ39889		0.94	40.5	3.56	3.59	<0.05	0.05	0.27	0.035	0.10	6.7	18.2	0.61	480	3.09	0.01
ZZ39890		0.57	27.3	2.78	3.15	<0.05	0.04	0.21	0.034	0.07	7.6	14.1	0.27	298	3.23	0.01
ZZ39891		0.71	28.9	2.74	3.25	0.05	0.04	0.18	0.028	0.07	10.1	15.0	0.59	577	2.50	0.01
ZZ39892		1.18	44.7	3.36	3.83	0.05	0.06	0.41	0.035	0.11	9.5	20.4	0.79	585	2.85	0.01
ZZ39893		0.74	36.7	2.83	3.34	<0.05	0.05	0.21	0.031	0.08	9.3	16.8	0.64	539	2.37	0.01
ZZ39894		1.27	47.0	3.55	4.06	0.05	0.06	0.42	0.034	0.11	10.4	20.2	0.47	630	2.81	0.01
ZZ39895		0.69	37.1	2.75	3.68	0.05	0.08	0.23	0.029	0.07	9.5	16.7	0.37	473	1.79	0.01
ZZ39896		0.68	31.0	2.96	3.76	0.05	0.06	0.31	0.031	0.08	10.8	17.1	0.47	710	1.84	0.01
ZZ39897		1.07	39.7	3.00	3.94	0.05	0.07	0.25	0.033	0.10	8.6	20.2	0.51	766	3.68	0.01
ZZ39898		1.52	43.3	3.34	3.25	<0.05	0.07	0.33	0.033	0.10	7.9	16.9	1.10	617	3.12	0.01
ZZ39899		1.74	43.7	3.49	3.86	0.05	0.08	0.26	0.032	0.11	8.3	24.3	1.11	687	2.24	0.01
ZZ39900		0.82	35.6	3.07	4.39	0.08	0.07	0.19	0.028	0.07	15.4	20.1	0.75	198	1.55	0.01
ZZ39901		0.76	41.9	3.32	3.62	0.06	0.06	0.35	0.032	0.08	9.9	19.1	0.86	482	2.34	0.01
ZZ39902		1.20	19.5	4.22	4.64	0.07	0.04	0.25	0.046	0.05	20.2	18.4	0.30	1190	2.60	0.01
ZZ39903		0.89	40.3	3.82	4.08	0.07	0.06	0.43	0.038	0.07	16.1	18.1	0.69	898	2.50	0.01
ZZ39904		0.81	39.9	3.10	4.88	0.06	0.07	0.31	0.033	0.07	17.1	27.4	0.74	216	1.56	0.01
ZZ39905		2.12	73.0	4.50	6.14	0.07	0.23	0.13	0.036	0.23	15.1	46.8	1.04	624	1.61	0.01
ZZ39906		0.81	57.9	2.58	3.94	0.07	0.14	0.28	0.029	0.07	11.5	27.5	0.70	178	0.37	0.01
ZZ39907		0.76	32.6	3.06	3.91	0.05	0.05	0.19	0.031	0.08	11.1	21.9	0.45	453	1.91	0.01
ZZ39908		1.50	11.4	3.10	6.43	0.05	0.04	0.03	0.030	0.06	14.9	23.1	0.45	196	1.69	0.01
ZZ39909		1.36	15.3	3.41	6.09	0.05	0.04	0.04	0.031	0.06	12.0	23.8	0.48	407	1.67	0.01
ZZ39910		1.14	14.8	3.11	5.42	<0.05	0.02	0.05	0.032	0.06	10.5	19.7	0.41	371	1.61	0.01
ZZ39911		1.04	38.0	2.58	3.38	0.09	0.08	0.15	0.028	0.09	9.1	19.6	0.96	340	2.06	0.01
ZZ39912		0.91	23.0	3.30	4.32	0.05	0.04	0.17	0.035	0.06	9.7	27.1	0.42	504	2.08	0.01
ZZ39913		0.90	30.4	3.56	3.51	0.08	0.06	0.33	0.037	0.07	16.4	21.2	0.39	577	2.43	0.01
ZZ39914		0.71	33.8	2.47	3.32	0.05	0.04	0.28	0.029	0.07	11.2	17.8	1.88	413	1.92	0.01
ZZ39915		0.89	30.3	3.58	4.81	0.05	0.04	0.17	0.039	0.06	14.0	24.5	0.73	313	2.33	0.01
ZZ39916		1.19	22.9	3.59	4.82	0.05	0.04	0.11	0.037	0.06	10.5	18.1	0.33	502	2.53	0.01
ZZ39917		1.15	16.5	3.78	5.66	<0.05	0.05	0.09	0.034	0.06	9.9	17.3	0.24	357	2.36	0.01
ZZ39918		1.41	26.9	3.72	3.92	<0.05	0.03	0.24	0.043	0.08	9.1	19.3	0.18	732	3.89	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39879		0.44	27.3	690	19.0	10.4	0.005	0.13	0.74	5.3	2.2	0.4	43.1	<0.01	0.04	3.1
ZZ39880		0.47	29.7	760	19.2	9.9	0.003	0.13	0.90	5.1	3.3	0.4	42.8	<0.01	0.05	3.2
ZZ39881		0.43	34.1	840	21.5	11.1	<0.001	0.04	0.87	6.4	1.4	0.5	32.2	<0.01	0.05	4.2
ZZ39882		0.45	36.4	760	24.7	8.6	<0.001	0.03	0.86	5.6	1.7	0.4	34.1	<0.01	0.06	4.2
ZZ39883		0.07	39.9	740	19.2	6.9	<0.001	0.02	0.83	6.5	0.5	0.3	142.0	<0.01	0.05	5.7
ZZ39884		0.46	31.1	970	16.8	7.8	<0.001	0.07	0.64	4.1	1.4	0.5	40.8	<0.01	0.03	1.1
ZZ39885		0.45	32.2	710	14.0	8.8	<0.001	0.06	0.46	4.9	0.8	0.6	35.5	<0.01	0.05	2.2
ZZ39886		0.30	30.5	630	26.1	13.2	<0.001	0.03	0.61	4.0	0.3	0.7	18.2	<0.01	0.05	2.9
ZZ39887		0.53	41.0	760	19.1	12.7	<0.001	0.06	0.56	4.6	0.7	0.7	28.7	<0.01	0.08	3.9
ZZ39888		0.30	46.3	910	18.9	7.8	<0.001	0.04	0.74	6.0	1.2	0.6	43.6	<0.01	0.06	3.4
ZZ39889		0.23	44.9	850	18.6	7.6	0.001	0.06	0.84	5.5	1.5	0.5	66.6	<0.01	0.06	3.5
ZZ39890		0.34	35.2	1010	14.5	6.7	0.003	0.05	0.74	4.4	1.6	0.5	49.7	<0.01	0.07	2.1
ZZ39891		0.39	35.6	1010	14.5	6.6	0.003	0.05	0.69	4.4	2.5	0.5	48.0	<0.01	0.06	1.9
ZZ39892		0.39	40.0	840	19.0	7.2	0.001	0.03	0.88	5.3	1.5	0.5	44.1	<0.01	0.06	3.3
ZZ39893		0.38	35.1	900	15.7	6.5	0.003	0.05	0.83	4.7	1.9	0.5	43.1	<0.01	0.05	1.9
ZZ39894		0.43	41.6	780	20.2	8.3	0.001	0.04	1.09	5.5	1.1	0.7	38.4	<0.01	0.06	2.7
ZZ39895		0.45	33.8	930	16.5	7.4	0.003	0.10	0.95	4.6	2.9	0.5	40.5	<0.01	0.06	2.1
ZZ39896		0.54	32.9	940	16.5	7.5	0.002	0.08	0.72	4.8	1.5	0.5	40.8	<0.01	0.05	2.5
ZZ39897		0.43	36.5	700	17.4	8.8	0.003	0.05	1.02	5.1	1.7	0.6	42.9	<0.01	0.06	2.7
ZZ39898		0.39	35.1	750	19.3	7.8	0.002	0.03	0.99	5.1	1.0	0.6	92.7	<0.01	0.05	4.1
ZZ39899		0.40	36.5	750	18.9	8.3	0.002	0.04	0.77	5.5	1.5	0.5	88.0	<0.01	0.04	4.1
ZZ39900		0.89	32.4	870	15.9	8.5	0.001	0.03	0.78	5.6	6.5	0.8	32.5	<0.01	0.04	4.5
ZZ39901		0.34	37.6	860	20.7	6.4	0.001	0.03	0.83	5.6	1.3	0.5	35.1	<0.01	0.05	3.1
ZZ39902		0.57	35.0	640	23.1	11.1	<0.001	0.04	0.71	6.3	1.5	0.7	23.1	<0.01	0.04	2.1
ZZ39903		0.29	43.5	810	24.9	7.7	<0.001	0.03	0.98	7.6	1.5	0.5	28.5	<0.01	0.04	4.1
ZZ39904		0.83	38.6	890	18.1	8.5	<0.001	0.04	0.74	5.8	1.3	0.8	33.5	<0.01	0.03	4.1
ZZ39905		0.05	41.1	710	18.7	10.4	<0.001	0.01	0.65	7.1	0.9	0.5	126.0	<0.01	0.05	6.4
ZZ39906		0.51	30.5	800	16.8	7.7	0.014	0.25	0.48	6.8	11.5	0.5	87.5	<0.01	0.04	2.4
ZZ39907		0.69	33.2	740	18.5	9.4	0.001	0.05	0.73	5.3	2.4	0.5	43.7	<0.01	0.03	2.3
ZZ39908		1.18	22.6	250	13.5	11.3	<0.001	0.01	0.37	3.1	0.3	0.8	13.7	<0.01	0.01	4.1
ZZ39909		0.87	23.3	240	17.9	11.0	<0.001	0.01	0.41	3.3	<0.2	0.8	13.4	<0.01	0.03	3.7
ZZ39910		0.74	21.6	430	15.8	10.6	<0.001	0.02	0.47	3.7	0.2	0.8	21.2	<0.01	0.03	2.1
ZZ39911		0.81	33.8	670	15.0	7.1	0.007	0.10	0.87	4.6	13.5	0.5	105.5	<0.01	0.02	3.7
ZZ39912		0.61	31.6	780	21.8	9.5	<0.001	0.05	0.80	4.4	1.3	0.6	33.5	<0.01	0.03	2.2
ZZ39913		0.44	39.7	760	24.4	7.5	<0.001	0.03	0.91	10.4	1.9	0.5	21.6	<0.01	0.06	3.9
ZZ39914		0.37	32.1	890	15.7	6.7	<0.001	0.05	0.89	5.1	1.4	0.7	64.2	<0.01	0.05	2.1
ZZ39915		0.58	35.7	630	22.2	8.5	<0.001	0.03	0.77	5.1	1.1	0.6	43.5	<0.01	0.06	2.8
ZZ39916		0.45	31.5	390	23.1	12.8	<0.001	0.02	0.69	4.8	0.7	0.8	12.2	<0.01	0.06	3.7
ZZ39917		1.14	21.1	780	20.8	12.1	<0.001	0.02	0.74	2.9	0.6	0.7	9.7	<0.01	0.04	3.9
ZZ39918		0.47	33.8	1350	24.0	12.1	<0.001	0.05	1.23	3.6	2.4	0.8	27.7	<0.01	0.06	2.6





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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39879		0.005	0.18	2.25	45	0.06	10.10	118	2.2
ZZ39880		0.006	0.16	3.03	45	0.13	10.25	132	2.5
ZZ39881		0.009	0.15	0.79	51	0.08	11.20	170	2.4
ZZ39882		0.009	0.18	1.17	50	0.08	11.50	155	2.1
ZZ39883		0.007	0.13	0.79	40	<0.05	10.40	122	9.4
ZZ39884		0.011	0.13	2.62	36	0.08	18.75	102	1.2
ZZ39885		0.009	0.16	1.10	41	0.10	9.01	95	1.2
ZZ39886		<0.005	0.26	0.61	52	0.06	4.66	138	1.1
ZZ39887		0.009	0.22	1.15	60	0.13	9.72	112	1.9
ZZ39888		0.006	0.15	0.90	49	0.07	14.45	139	1.5
ZZ39889		0.005	0.21	0.90	47	0.05	12.70	152	2.2
ZZ39890		0.006	0.13	2.16	49	0.10	15.85	133	1.3
ZZ39891		0.008	0.14	1.39	51	0.11	17.10	120	1.2
ZZ39892		0.008	0.22	1.09	52	0.06	13.20	157	2.4
ZZ39893		0.006	0.16	1.35	50	0.06	15.10	149	1.5
ZZ39894		0.008	0.24	1.06	57	0.09	14.50	170	1.8
ZZ39895		0.005	0.15	2.95	55	0.06	14.80	151	2.3
ZZ39896		0.010	0.14	1.47	55	0.09	15.70	148	1.8
ZZ39897		0.007	0.29	1.10	50	0.06	11.75	128	2.1
ZZ39898		0.012	0.26	0.95	43	0.07	10.40	154	3.4
ZZ39899		0.009	0.24	1.03	44	0.06	11.40	149	3.3
ZZ39900		0.031	0.12	0.98	54	0.16	13.65	146	2.6
ZZ39901		0.007	0.19	1.09	53	0.07	15.00	148	1.7
ZZ39902		0.008	0.26	2.51	87	0.10	24.5	131	1.0
ZZ39903		0.007	0.24	1.30	68	0.08	25.2	155	1.9
ZZ39904		0.024	0.14	1.02	66	0.18	17.10	174	2.2
ZZ39905		0.006	0.18	0.75	52	<0.05	11.00	128	10.2
ZZ39906		0.011	0.13	3.84	49	0.10	17.30	196	4.1
ZZ39907		0.010	0.14	1.67	57	0.08	17.20	183	1.6
ZZ39908		0.037	0.17	0.65	68	0.23	4.10	82	1.9
ZZ39909		0.021	0.19	0.60	72	0.28	3.75	92	1.6
ZZ39910		0.018	0.16	0.85	71	0.20	4.12	130	0.6
ZZ39911		0.025	0.22	1.66	39	0.08	10.10	138	3.3
ZZ39912		0.011	0.16	1.48	64	0.11	9.39	151	1.3
ZZ39913		0.007	0.20	1.25	73	0.07	33.4	147	1.5
ZZ39914		0.008	0.20	1.54	62	0.08	17.60	129	1.4
ZZ39915		0.010	0.15	0.90	69	0.13	16.20	118	1.3
ZZ39916		0.006	0.23	0.82	70	0.08	8.67	104	1.4
ZZ39917		0.021	0.21	0.78	70	0.21	3.89	110	1.7
ZZ39918		0.008	0.38	1.33	70	0.10	11.75	191	0.8



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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt.	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
ZZ39920		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.36	0.002	0.29	0.97	117.0	<0.2	<10	260	0.74	0.19	0.83	0.94	16.50	10.4	20

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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
ZZ39920		3.83	31.1	2.52	3.09	0.05	0.05	0.13	0.034	0.08	7.1	19.7	0.43	124	3.41	0.01

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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ39920		0.30	36.4	750	17.1	10.8	0.005	0.25	1.03	4.4	3.1	0.5	36.6	<0.01	0.05	2.7

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**CERTIFICATE OF ANALYSIS WH12194356**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
ZZ39920		0.005	0.02	0.05	1	0.05	0.05	2	0.5
		0.006	0.47	1.76	55	0.13	10.80	168	2.0

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**CERTIFICATE OF ANALYSIS WH12194356**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194357**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 144 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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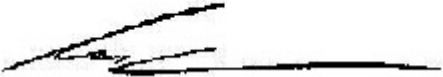
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37501		0.25	0.005	0.34	1.71	21.0	<0.2	<10	510	0.94	0.26	0.85	0.58	25.1	16.8	29
ZZ37502		0.21	0.005	0.41	1.78	28.3	<0.2	<10	660	0.99	0.27	1.17	0.52	21.1	16.9	29
ZZ37503		0.21	0.005	0.35	1.77	22.2	<0.2	<10	370	0.95	0.26	0.63	0.52	28.7	18.9	30
ZZ37504		0.18	0.004	0.31	1.46	28.8	<0.2	<10	450	0.76	0.21	1.68	0.49	18.65	13.1	23
ZZ37505		0.25	0.004	0.25	1.66	26.8	<0.2	<10	450	0.82	0.22	1.21	0.43	20.1	15.2	26
ZZ37506		0.17	0.005	0.26	1.60	17.9	<0.2	<10	400	0.68	0.23	1.16	0.44	20.6	14.6	26
ZZ37507		0.29	0.004	0.27	1.61	24.3	<0.2	<10	370	0.82	0.22	0.97	0.55	25.0	16.3	27
ZZ37508		0.21	0.005	0.32	1.55	21.3	<0.2	<10	440	0.83	0.22	1.05	0.47	20.2	14.4	26
ZZ37509		0.24	0.003	0.35	1.69	21.1	<0.2	<10	470	0.97	0.24	0.98	0.50	23.4	15.1	28
ZZ37510		0.19	0.002	0.32	1.55	19.2	<0.2	<10	450	0.79	0.22	1.39	0.44	20.3	13.2	25
ZZ37511		0.19	0.003	0.25	1.80	25.9	<0.2	<10	440	0.76	0.21	0.91	0.45	23.9	18.6	29
ZZ37512		0.18	0.003	0.33	1.70	67.7	<0.2	<10	490	1.02	0.22	1.06	0.70	23.3	18.4	27
ZZ37513		0.18	0.003	0.12	2.10	33.4	<0.2	<10	200	0.99	0.31	0.05	0.39	17.45	30.0	35
ZZ37514		0.21	0.009	0.56	1.43	26.4	<0.2	<10	660	0.97	0.23	1.47	0.76	21.6	13.2	28
ZZ37515		0.20	0.005	0.29	1.51	20.1	<0.2	<10	530	0.58	0.21	1.30	0.62	20.2	13.7	24
ZZ37516		0.24	0.005	0.30	1.85	21.7	<0.2	<10	460	0.80	0.26	0.86	0.52	25.4	15.3	29
ZZ37517		0.27	0.005	0.15	2.17	16.2	<0.2	<10	470	0.96	0.29	0.46	0.14	37.6	20.3	30
ZZ37518		0.10	0.005	0.37	1.42	15.4	<0.2	<10	1240	0.75	0.21	1.10	1.98	23.4	9.8	19
ZZ37519		0.24	0.004	0.14	2.07	14.2	<0.2	<10	260	0.91	0.29	0.62	0.16	33.3	19.8	29
ZZ37520		0.16	0.003	0.11	2.24	12.7	<0.2	<10	180	0.86	0.27	0.56	0.19	33.4	15.3	28
ZZ37521		0.16	0.004	0.22	1.42	19.6	<0.2	<10	1370	0.62	0.21	0.27	0.19	15.00	6.7	28
ZZ37522		0.17	0.006	0.86	1.14	23.4	<0.2	<10	1180	0.75	0.20	0.41	0.69	15.05	9.3	27
ZZ37523		0.22	0.007	0.59	1.06	16.7	<0.2	<10	560	0.54	0.16	0.93	0.44	13.50	7.9	22
ZZ37524		0.17	0.006	0.18	2.34	11.5	<0.2	<10	290	0.67	0.23	0.51	0.22	31.6	16.4	36
ZZ37525		0.22	0.005	0.13	2.73	13.8	<0.2	<10	210	0.88	0.27	0.51	0.30	47.5	31.3	41
ZZ37526		0.19	0.005	0.17	2.01	13.4	<0.2	<10	300	1.00	0.24	0.88	0.34	33.6	13.6	30
ZZ37527		0.15	0.007	0.21	2.31	21.7	<0.2	<10	250	0.91	0.23	0.25	0.34	45.5	22.5	37
ZZ37528		0.25	0.005	0.38	1.79	9.7	<0.2	<10	450	0.70	0.23	0.73	0.95	27.0	17.4	31
ZZ37529		0.07	0.026	0.27	0.93	2.6	<0.2	<10	230	0.37	0.11	1.36	1.75	10.50	4.5	15
ZZ37530		0.21	0.004	0.19	1.66	14.4	<0.2	<10	270	0.61	0.31	0.57	0.50	33.4	17.0	28
ZZ37531		0.27	0.004	0.24	1.79	16.0	<0.2	<10	430	0.72	0.26	0.54	0.36	34.6	17.7	28
ZZ37532		0.21	0.005	0.21	1.68	14.8	<0.2	<10	440	0.73	0.23	0.68	0.33	25.2	13.7	26
ZZ37533		0.20	0.003	0.09	2.08	16.0	<0.2	<10	220	0.73	0.25	0.11	0.18	41.6	12.4	30
ZZ37534		0.28	0.004	0.25	1.87	13.6	<0.2	<10	440	0.75	0.25	0.72	0.56	34.3	16.2	33
ZZ37535		0.17	0.003	0.38	1.53	10.9	<0.2	<10	840	0.67	0.21	1.92	1.00	25.4	14.3	25
ZZ37536		0.23	0.005	0.25	1.70	17.4	<0.2	<10	300	0.76	0.26	0.72	0.25	28.6	15.4	27
ZZ37537		0.20	0.002	0.09	1.77	13.0	<0.2	<10	270	0.63	0.26	0.23	0.19	38.6	10.7	26
ZZ37538		0.14	0.004	0.18	1.55	11.6	<0.2	<10	560	0.77	0.22	1.86	0.28	24.9	12.0	22
ZZ37539		0.17	0.006	0.11	2.06	17.3	<0.2	<10	210	0.87	0.28	0.44	0.15	35.3	20.2	29
ZZ37540		0.13	0.005	0.22	1.50	10.4	<0.2	<10	340	0.69	0.20	2.60	0.45	17.45	11.7	20





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ37501		1.23	62.4	3.94	5.22	<0.05	0.07	0.18	0.039	0.10	11.0	26.2	0.78	597	1.49	0.01
ZZ37502		1.44	73.8	4.18	5.30	0.05	0.09	0.21	0.035	0.12	9.6	26.3	0.79	770	1.73	0.01
ZZ37503		1.25	67.5	4.21	5.93	0.05	0.08	0.17	0.038	0.10	11.8	29.1	0.86	677	1.84	0.01
ZZ37504		1.62	54.7	2.93	4.34	<0.05	0.08	0.24	0.035	0.09	8.2	25.7	0.67	443	0.63	0.01
ZZ37505		1.14	55.7	3.64	5.12	<0.05	0.08	0.18	0.036	0.10	8.9	29.0	0.76	567	1.13	0.01
ZZ37506		1.08	54.2	3.28	4.70	<0.05	0.08	0.17	0.030	0.09	9.0	26.0	0.73	525	0.92	0.01
ZZ37507		1.16	55.9	3.73	5.04	<0.05	0.08	0.19	0.034	0.09	10.3	28.0	0.78	810	1.18	0.01
ZZ37508		1.96	51.8	3.48	4.75	<0.05	0.07	0.17	0.031	0.09	8.8	24.3	0.71	842	1.29	0.01
ZZ37509		1.79	62.3	3.61	5.24	<0.05	0.07	0.19	0.037	0.10	10.9	28.0	0.75	703	1.18	0.01
ZZ37510		1.43	51.0	3.24	4.79	<0.05	0.06	0.40	0.037	0.09	9.1	25.1	0.69	577	1.04	0.01
ZZ37511		1.45	53.3	4.42	5.72	<0.05	0.07	0.17	0.036	0.09	10.5	28.3	0.83	1320	1.26	0.01
ZZ37512		1.36	59.1	5.53	5.16	<0.05	0.07	0.23	0.037	0.09	10.7	25.9	0.68	1060	2.43	0.01
ZZ37513		2.13	92.1	5.67	5.30	<0.05	0.10	0.02	0.060	0.09	7.1	38.2	0.62	1310	3.20	<0.01
ZZ37514		1.27	72.0	3.48	4.22	0.05	0.07	0.24	0.039	0.09	10.7	23.5	0.72	540	1.65	0.01
ZZ37515		1.13	47.7	3.23	5.13	0.12	0.07	0.17	0.031	0.08	9.6	24.2	0.66	589	1.15	<0.01
ZZ37516		1.45	58.6	3.84	6.09	0.14	0.10	0.18	0.035	0.10	12.2	28.4	0.75	690	1.14	0.01
ZZ37517		1.07	64.9	4.48	6.59	0.17	0.11	0.16	0.035	0.12	17.9	38.7	0.89	834	0.86	<0.01
ZZ37518		0.96	42.0	2.33	5.59	0.10	0.03	0.07	0.037	0.04	11.9	10.9	0.17	756	0.90	0.01
ZZ37519		1.16	69.5	4.32	6.35	0.16	0.13	0.12	0.033	0.12	16.0	42.6	0.83	717	0.77	0.01
ZZ37520		1.46	54.7	4.29	6.78	0.16	0.09	0.06	0.035	0.11	15.7	47.6	0.79	326	0.78	<0.01
ZZ37521		1.16	41.6	2.68	4.64	0.10	0.04	0.08	0.034	0.07	7.0	16.3	0.36	127	2.36	<0.01
ZZ37522		1.09	55.7	2.85	3.26	0.12	0.05	0.12	0.040	0.08	7.2	15.5	0.30	218	3.50	<0.01
ZZ37523		1.19	38.5	1.99	3.42	0.11	0.06	0.19	0.028	0.08	6.4	16.5	0.38	113	1.04	0.01
ZZ37524		0.87	66.6	5.02	8.67	0.18	0.08	0.09	0.037	0.08	14.4	36.3	1.46	245	0.98	<0.01
ZZ37525		1.71	99.1	5.64	10.05	0.22	0.10	0.07	0.042	0.12	21.2	41.5	1.68	977	1.04	0.01
ZZ37526		1.39	100.5	3.46	6.71	0.16	0.07	0.11	0.036	0.07	20.4	23.2	0.65	485	1.20	0.01
ZZ37527		1.74	101.5	4.54	6.99	0.19	0.07	0.09	0.044	0.08	21.6	29.2	0.95	782	1.78	<0.01
ZZ37528		1.04	85.0	2.91	6.31	0.16	0.08	0.15	0.036	0.08	12.6	26.7	0.89	130	1.22	0.01
ZZ37529		1.08	70.9	0.84	2.86	0.17	0.09	0.15	0.015	0.06	4.9	10.8	0.21	76	1.59	0.01
ZZ37530		0.87	67.6	3.44	5.71	0.15	0.10	0.10	0.041	0.06	14.8	28.6	0.77	172	1.50	<0.01
ZZ37531		1.05	62.1	4.15	6.03	0.18	0.09	0.18	0.034	0.10	16.2	32.4	0.81	559	1.19	0.01
ZZ37532		1.01	59.7	3.70	5.36	0.14	0.07	0.12	0.037	0.06	12.8	28.2	0.61	624	1.15	<0.01
ZZ37533		1.41	28.7	3.61	6.52	0.14	0.07	0.21	0.037	0.05	15.1	22.2	0.44	435	1.65	<0.01
ZZ37534		0.81	48.5	3.81	6.50	0.15	0.09	0.10	0.036	0.07	15.9	32.5	0.89	349	1.14	0.01
ZZ37535		0.74	48.6	2.80	5.05	0.12	0.07	0.17	0.031	0.05	12.0	18.7	0.58	881	0.94	0.01
ZZ37536		1.08	66.8	3.75	5.77	0.15	0.07	0.15	0.035	0.08	14.1	29.5	0.74	406	1.27	0.01
ZZ37537		1.43	18.8	2.86	6.10	0.13	0.03	0.03	0.031	0.05	16.5	16.6	0.39	360	1.09	0.01
ZZ37538		1.00	53.2	2.88	5.09	0.13	0.07	0.14	0.030	0.07	14.0	23.0	0.47	606	0.70	0.01
ZZ37539		1.35	80.4	4.50	6.60	0.17	0.10	0.15	0.036	0.11	16.2	38.2	0.91	722	0.76	0.01
ZZ37540		1.11	68.8	2.86	4.86	0.11	0.06	0.19	0.030	0.07	9.2	18.3	0.47	1140	0.63	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37501		0.33	39.6	740	18.7	8.0	<0.001	0.03	0.85	7.7	1.6	0.4	38.8	<0.01	0.09	3.4
ZZ37502		0.21	41.6	640	19.2	8.8	0.001	0.04	0.98	8.0	1.4	0.4	45.7	<0.01	0.11	2.5
ZZ37503		0.22	43.2	640	18.8	8.1	<0.001	0.03	0.79	8.8	1.7	0.4	31.7	<0.01	0.11	3.2
ZZ37504		0.19	32.1	630	14.7	8.3	<0.001	0.07	0.55	5.5	1.4	0.3	60.2	<0.01	0.05	2.1
ZZ37505		0.19	34.9	620	16.3	7.7	0.001	0.05	0.63	6.0	1.0	0.3	46.6	<0.01	0.10	2.2
ZZ37506		0.22	32.8	660	16.9	7.4	<0.001	0.05	0.57	6.0	1.1	0.3	46.4	<0.01	0.04	2.1
ZZ37507		0.21	38.0	730	17.5	7.3	0.001	0.03	0.65	6.6	1.4	0.3	43.0	<0.01	0.06	2.5
ZZ37508		0.20	35.0	680	15.8	8.9	0.001	0.05	0.65	6.1	1.1	0.3	42.7	<0.01	0.06	2.0
ZZ37509		0.21	37.2	690	16.4	9.2	0.001	0.04	0.66	7.0	1.2	0.3	40.4	<0.01	0.06	2.3
ZZ37510		0.23	32.1	700	15.9	8.4	0.002	0.06	0.66	5.8	1.0	0.3	49.7	<0.01	0.07	1.6
ZZ37511		0.22	37.1	730	17.4	8.7	0.001	0.06	0.66	6.6	1.5	0.3	37.7	<0.01	0.05	2.5
ZZ37512		0.28	34.1	830	17.0	9.5	0.001	0.07	0.80	7.3	1.7	0.4	41.8	<0.01	0.10	2.5
ZZ37513		0.18	47.0	660	37.4	11.9	0.001	0.03	1.37	7.0	1.3	0.4	17.3	<0.01	0.08	3.5
ZZ37514		0.22	39.0	760	18.6	8.7	0.001	0.05	0.88	7.8	2.1	0.3	52.7	<0.01	0.05	1.7
ZZ37515		0.30	30.2	770	17.2	8.3	0.001	0.06	0.53	5.9	1.4	0.3	52.7	<0.01	0.07	1.7
ZZ37516		0.31	33.7	820	19.8	10.0	0.001	0.05	0.53	7.5	1.5	0.4	38.8	<0.01	0.08	2.4
ZZ37517		0.18	38.7	420	22.5	7.4	<0.001	0.01	0.52	8.9	0.8	0.3	24.6	0.01	0.06	5.8
ZZ37518		0.45	20.1	970	15.4	4.9	<0.001	0.05	0.29	3.6	1.0	0.6	49.6	<0.01	0.06	0.8
ZZ37519		0.19	37.4	540	22.0	8.4	<0.001	0.02	0.52	8.4	0.9	0.3	42.9	<0.01	0.06	4.8
ZZ37520		0.20	33.8	360	19.3	10.9	<0.001	0.02	0.44	6.5	0.7	0.3	34.6	<0.01	0.06	4.2
ZZ37521		0.21	33.8	380	13.1	10.2	<0.001	0.01	0.71	5.0	1.1	0.4	27.0	<0.01	0.07	1.9
ZZ37522		0.16	54.2	810	15.0	7.9	0.001	0.02	1.21	6.7	1.8	0.4	66.2	0.01	0.08	2.3
ZZ37523		0.22	27.8	810	12.6	10.2	0.010	0.20	0.56	5.4	6.1	0.3	60.2	<0.01	0.07	1.9
ZZ37524		0.19	38.8	660	16.2	7.4	0.002	0.03	0.38	9.0	1.9	0.3	27.9	<0.01	0.09	3.1
ZZ37525		0.21	46.6	260	18.9	8.1	<0.001	0.02	0.45	11.6	1.0	0.3	25.9	<0.01	0.10	3.8
ZZ37526		0.60	30.4	720	15.3	10.5	0.001	0.05	0.49	8.3	1.5	0.5	42.8	0.01	0.07	1.5
ZZ37527		0.26	43.3	610	21.2	10.3	0.001	0.02	0.78	11.0	1.6	0.3	24.0	0.01	0.09	4.1
ZZ37528		0.32	43.5	670	15.8	8.0	0.006	0.16	0.76	9.5	7.1	0.3	43.0	<0.01	0.09	3.5
ZZ37529		0.21	26.0	510	8.3	6.9	0.006	0.96	0.61	3.9	31.2	0.2	64.3	<0.01	0.01	1.3
ZZ37530		0.34	34.2	460	23.5	7.3	0.001	0.05	0.66	9.0	2.0	0.3	36.9	<0.01	0.10	4.3
ZZ37531		0.42	38.6	680	18.8	8.2	0.001	0.02	0.60	8.7	1.2	0.4	39.1	<0.01	0.07	4.9
ZZ37532		0.39	31.7	540	18.1	9.0	<0.001	0.03	0.57	8.2	1.2	0.4	38.9	0.01	0.07	2.6
ZZ37533		0.98	33.3	390	18.0	11.9	<0.001	0.01	0.66	5.5	0.8	0.6	12.5	<0.01	0.06	5.6
ZZ37534		0.69	34.9	740	18.2	8.5	0.001	0.03	0.59	9.0	1.3	0.5	53.7	<0.01	0.07	4.8
ZZ37535		0.69	29.8	1040	13.9	7.5	0.001	0.07	0.76	5.9	2.4	0.4	83.8	<0.01	0.05	1.9
ZZ37536		0.41	34.9	590	18.7	8.4	<0.001	0.03	0.63	9.2	1.1	0.4	41.5	0.01	0.06	3.2
ZZ37537		1.03	21.5	370	16.2	12.0	<0.001	0.01	0.49	4.4	0.6	0.6	19.2	<0.01	0.04	4.4
ZZ37538		0.54	24.4	670	14.9	8.3	<0.001	0.07	0.52	5.3	1.6	0.4	85.2	0.01	0.07	1.4
ZZ37539		0.22	38.2	330	22.0	8.3	<0.001	0.02	0.50	10.8	0.9	0.3	34.1	<0.01	0.07	5.2
ZZ37540		0.42	25.3	890	13.9	8.6	<0.001	0.10	0.50	4.7	1.7	0.3	118.0	0.01	0.08	0.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Ti	Ti	U	V	W	Y	Zn	
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	
LOR		0.005	0.02	0.05	1	0.05	0.05	2	
								Zr	
								ppm	
								0.5	
ZZ37501		0.008	0.17	1.20	56	0.08	12.25	130	2.7
ZZ37502		0.005	0.20	1.00	57	0.06	12.60	130	2.6
ZZ37503		0.006	0.13	0.92	56	<0.05	12.85	124	2.6
ZZ37504		<0.005	0.28	0.84	39	<0.05	9.97	100	2.6
ZZ37505		<0.005	0.15	0.83	47	<0.05	9.84	114	2.2
ZZ37506		0.005	0.14	0.92	45	0.05	10.40	104	2.3
ZZ37507		0.006	0.15	0.89	48	0.05	11.30	113	2.1
ZZ37508		0.005	0.15	0.92	47	0.05	10.40	114	2.1
ZZ37509		0.005	0.14	1.22	48	0.05	12.25	117	2.1
ZZ37510		0.005	0.13	1.22	46	0.05	11.00	105	2.0
ZZ37511		0.005	0.13	1.01	55	0.08	11.40	118	2.2
ZZ37512		0.005	0.16	1.37	55	0.08	13.65	127	2.4
ZZ37513		<0.005	0.28	0.71	68	0.06	6.39	191	3.0
ZZ37514		0.006	0.21	0.96	53	0.08	18.50	132	2.1
ZZ37515		0.005	0.12	1.19	47	0.06	10.85	120	2.2
ZZ37516		0.005	0.15	1.40	54	0.07	12.95	113	2.8
ZZ37517		<0.005	0.09	0.78	42	<0.05	15.05	86	4.3
ZZ37518		0.011	0.12	2.03	55	0.09	11.55	89	0.6
ZZ37519		0.005	0.08	0.78	39	0.05	14.50	85	4.8
ZZ37520		<0.005	0.10	1.01	40	<0.05	10.50	76	3.1
ZZ37521		<0.005	0.14	0.90	62	0.07	10.10	118	0.8
ZZ37522		<0.005	0.15	1.79	55	0.05	19.40	206	1.5
ZZ37523		<0.005	0.16	1.61	43	0.05	11.75	112	1.9
ZZ37524		<0.005	0.07	0.95	69	<0.05	9.67	101	2.4
ZZ37525		0.005	0.09	0.52	79	<0.05	10.95	89	3.1
ZZ37526		0.012	0.12	1.59	62	0.13	26.2	66	1.4
ZZ37527		<0.005	0.18	1.16	68	0.06	18.45	100	1.7
ZZ37528		0.006	0.13	3.96	62	<0.05	14.65	129	2.9
ZZ37529		0.005	0.15	19.70	22	<0.05	6.63	71	3.4
ZZ37530		0.005	0.11	2.45	55	0.06	12.35	84	4.1
ZZ37531		0.011	0.11	0.85	49	0.07	13.70	93	3.2
ZZ37532		0.008	0.12	1.33	46	0.09	14.50	75	1.9
ZZ37533		0.022	0.18	1.00	60	0.26	7.58	73	3.2
ZZ37534		0.016	0.10	1.51	59	0.12	12.45	112	3.3
ZZ37535		0.014	0.09	3.65	47	0.16	11.60	65	2.2
ZZ37536		0.010	0.12	0.85	48	0.12	14.45	88	1.9
ZZ37537		0.028	0.16	1.02	56	0.30	7.49	73	0.9
ZZ37538		0.010	0.09	2.14	39	0.11	15.95	55	1.8
ZZ37539		0.005	0.10	0.60	46	0.05	14.10	82	4.0
ZZ37540		0.007	0.11	2.11	34	0.07	12.60	57	1.9



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**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37541		0.15	0.007	0.18	1.22	11.3	<0.2	<10	220	0.53	0.17	2.38	0.46	14.40	10.1	16
ZZ37542		0.20	0.003	0.14	0.98	18.1	<0.2	<10	170	1.13	0.23	1.11	0.27	27.0	12.6	18
ZZ37543		0.17	0.004	0.30	1.27	18.9	<0.2	<10	220	0.67	0.23	1.18	0.31	21.0	12.5	22
ZZ37544		0.26	0.002	0.09	2.05	20.8	<0.2	<10	150	0.83	0.30	1.06	0.08	25.4	14.5	28
ZZ37545		0.13	0.008	0.08	2.41	13.9	<0.2	<10	240	0.86	0.36	0.11	0.27	26.2	14.6	32
ZZ37546		0.23	0.005	0.12	2.14	14.9	<0.2	<10	250	0.95	0.32	0.51	0.07	40.7	20.5	30
ZZ37547		0.15	0.010	0.12	1.74	9.9	<0.2	<10	270	0.83	0.29	0.87	0.14	23.8	14.7	26
ZZ37548		0.13	0.008	0.15	1.50	4.0	<0.2	10	330	0.70	0.20	1.51	0.60	18.05	11.4	22
ZZ37549		0.14	0.004	0.10	1.41	96.5	<0.2	<10	150	0.52	0.23	1.26	0.52	18.70	8.7	22
ZZ37550		0.13	0.007	0.14	1.96	174.5	<0.2	<10	190	0.69	0.24	1.33	0.47	21.1	14.9	28
ZZ37551		0.13	0.008	0.04	1.80	23.6	<0.2	<10	170	1.10	0.32	0.57	0.26	26.0	15.1	27
ZZ37552		0.16	0.005	0.05	2.63	11.3	<0.2	<10	130	0.98	0.27	0.37	0.21	44.6	24.7	38
ZZ37553		0.20	0.002	0.03	2.05	10.1	<0.2	<10	100	0.50	0.27	0.11	0.20	48.0	18.0	31
ZZ37554		0.18	0.006	0.11	2.07	13.1	<0.2	<10	130	0.95	0.29	0.75	0.10	29.0	17.8	31
ZZ37555		0.15	0.008	0.09	2.22	11.6	<0.2	<10	120	0.86	0.27	0.62	0.12	33.1	20.4	33
ZZ37556		0.23	0.003	0.11	1.26	16.5	<0.2	<10	150	0.77	0.25	1.00	0.25	20.1	12.5	21
ZZ37557		0.12	0.010	0.18	1.01	38.2	<0.2	<10	140	0.61	0.22	1.74	0.16	14.75	11.4	16
ZZ37558		0.17	0.011	0.15	0.43	12.7	<0.2	<10	60	0.30	0.23	0.11	0.39	10.05	6.7	11
ZZ37559		0.17	0.013	0.55	0.56	20.4	<0.2	<10	50	0.38	0.31	0.06	0.82	9.03	7.3	13
ZZ37560		0.17	0.002	1.17	1.16	23.0	<0.2	<10	160	0.97	0.21	0.29	2.40	42.0	25.0	27
ZZ37561		0.14	0.006	2.88	0.67	30.0	<0.2	<10	310	1.15	0.20	2.15	13.05	31.1	13.4	33
ZZ37562		0.12	0.009	0.94	1.21	21.3	<0.2	<10	190	0.42	0.34	0.03	0.84	13.30	6.7	20
ZZ37563		0.18	0.001	0.06	0.97	15.4	<0.2	<10	60	0.21	0.26	0.02	0.12	15.60	6.1	16
ZZ37564		0.23	0.003	0.10	1.17	17.6	<0.2	<10	140	0.90	0.33	0.04	0.67	14.70	13.9	19
ZZ37565		0.22	0.005	0.50	0.90	23.0	<0.2	<10	210	1.03	0.30	0.39	3.83	18.95	15.2	20
ZZ37566		0.20	0.004	0.40	1.06	15.8	<0.2	<10	240	0.97	0.27	0.57	0.63	20.9	13.1	21
ZZ37567		0.31	0.004	0.39	1.07	18.5	<0.2	<10	320	0.87	0.27	0.46	0.87	22.0	12.1	21
ZZ37568		0.23	0.005	0.34	1.10	17.6	<0.2	<10	350	0.99	0.27	0.40	0.78	22.0	12.8	20
ZZ37569		0.23	0.004	0.26	1.05	15.3	<0.2	<10	360	0.75	0.27	0.66	0.95	19.65	9.9	20
ZZ37570		0.14	0.006	1.14	1.66	20.1	<0.2	<10	270	1.49	0.21	1.18	2.17	45.5	15.7	33
ZZ37571		0.14	0.005	0.32	1.15	18.2	<0.2	<10	410	0.84	0.25	0.88	0.66	22.4	13.4	21
ZZ37572		0.18	0.002	0.31	1.14	14.5	<0.2	<10	260	1.16	0.27	1.37	7.88	20.0	15.6	21
ZZ37573		0.14	0.006	0.97	0.81	14.9	<0.2	<10	2270	0.69	0.21	1.26	3.16	11.20	6.6	19
ZZ37574		0.19	0.003	0.25	1.32	17.7	<0.2	<10	330	1.06	0.30	0.73	0.35	22.6	13.0	24
ZZ37575		0.18	0.004	0.19	1.30	15.9	<0.2	<10	290	0.47	0.26	0.15	0.18	19.80	6.6	23
ZZ37576		0.17	0.002	0.07	0.99	12.5	<0.2	<10	150	0.24	0.30	0.02	0.31	21.2	4.9	16
ZZ37577		0.12	<0.001	0.03	1.04	14.7	<0.2	<10	80	0.42	0.27	0.02	0.06	13.90	6.3	20
ZZ37578		0.17	0.003	0.06	0.96	13.9	<0.2	<10	120	0.41	0.30	0.02	0.18	19.75	6.9	17
ZZ37579		0.16	0.006	0.04	1.38	17.0	<0.2	<10	110	0.72	0.28	0.03	0.21	17.00	9.2	24
ZZ37580		0.20	0.003	0.11	1.45	18.8	<0.2	<10	80	0.73	0.32	0.03	0.18	18.85	10.8	27



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**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37541		1.54	49.5	2.52	4.01	0.09	0.07	0.12	0.025	0.09	7.1	17.0	0.49	674	0.99	0.01
ZZ37542		2.14	32.0	3.91	3.31	0.16	0.06	0.07	0.045	0.12	13.8	11.9	0.35	329	1.67	<0.01
ZZ37543		2.10	55.3	3.46	4.41	0.14	0.07	0.15	0.033	0.07	9.9	24.4	0.75	440	1.19	0.01
ZZ37544		2.44	43.1	4.02	6.42	0.14	0.04	0.03	0.037	0.06	11.6	31.4	0.50	367	1.04	<0.01
ZZ37545		2.47	46.9	4.47	8.57	0.15	0.06	0.04	0.048	0.09	12.0	32.4	0.44	528	1.01	0.01
ZZ37546		2.28	71.7	4.85	7.19	0.20	0.13	0.11	0.034	0.12	19.1	50.2	1.04	592	0.67	0.01
ZZ37547		2.43	65.7	3.75	5.90	0.16	0.11	0.11	0.031	0.11	11.3	37.8	0.85	505	0.63	0.01
ZZ37548		1.33	75.8	2.36	5.21	0.11	0.11	0.11	0.026	0.09	8.1	31.6	0.70	331	0.22	0.01
ZZ37549		1.30	46.7	2.80	5.70	0.11	0.04	0.05	0.025	0.08	9.4	31.2	0.48	289	2.54	0.01
ZZ37550		1.75	66.5	3.80	5.99	0.14	0.12	0.08	0.032	0.14	9.9	35.2	0.80	745	3.20	0.01
ZZ37551		2.50	24.4	4.05	5.72	<0.05	0.04	0.03	0.046	0.06	10.3	27.3	0.41	569	1.40	0.01
ZZ37552		1.42	105.0	5.21	8.20	0.08	0.10	0.08	0.037	0.10	21.9	39.1	1.36	551	0.68	<0.01
ZZ37553		1.12	63.4	4.68	8.31	0.07	0.08	0.01	0.030	0.10	23.1	30.8	0.99	417	0.88	<0.01
ZZ37554		1.11	81.5	4.54	6.41	0.07	0.13	0.09	0.037	0.12	14.9	42.4	1.04	530	0.57	<0.01
ZZ37555		1.37	86.5	4.65	7.59	0.06	0.10	0.05	0.034	0.10	15.6	39.8	1.23	443	0.61	<0.01
ZZ37556		1.51	36.9	3.30	4.04	<0.05	0.05	0.05	0.031	0.05	9.0	25.3	0.51	482	0.87	<0.01
ZZ37557		1.06	22.6	2.87	3.13	<0.05	0.07	0.20	0.023	0.05	6.9	20.6	0.38	620	0.68	<0.01
ZZ37558		1.54	29.5	2.02	2.90	<0.05	<0.02	0.04	0.021	0.06	4.7	1.8	0.04	189	5.92	<0.01
ZZ37559		1.82	43.5	2.58	3.16	<0.05	<0.02	0.08	0.027	0.06	4.5	2.0	0.04	144	11.50	<0.01
ZZ37560		2.43	64.0	5.70	4.03	0.07	0.02	0.11	0.048	0.08	17.1	16.3	0.25	870	10.40	0.01
ZZ37561		1.15	117.5	3.66	1.82	0.08	0.03	0.65	0.037	0.09	17.9	4.2	0.66	483	23.5	0.01
ZZ37562		1.68	30.3	4.06	5.07	<0.05	0.02	0.09	0.041	0.08	6.3	7.4	0.13	165	7.09	0.01
ZZ37563		1.17	18.7	2.84	5.45	<0.05	<0.02	0.04	0.024	0.05	7.8	6.8	0.13	209	3.34	<0.01
ZZ37564		1.65	45.0	3.64	3.43	<0.05	0.03	0.04	0.044	0.07	6.8	15.6	0.23	397	5.87	<0.01
ZZ37565		1.56	60.2	3.81	2.99	0.05	<0.02	0.25	0.042	0.09	8.7	12.3	0.28	544	6.74	0.01
ZZ37566		1.13	40.4	3.25	3.59	<0.05	0.05	0.16	0.033	0.08	10.1	15.8	0.37	581	3.26	<0.01
ZZ37567		1.16	44.7	3.23	3.52	0.05	0.05	0.19	0.034	0.08	9.9	16.7	0.36	742	3.45	0.01
ZZ37568		1.04	43.5	3.34	3.67	<0.05	0.06	0.15	0.034	0.08	9.7	16.1	0.33	544	4.30	0.01
ZZ37569		1.07	39.2	2.96	4.06	<0.05	0.03	0.36	0.032	0.08	9.0	14.3	0.27	550	3.07	0.01
ZZ37570		0.86	32.0	5.58	2.80	0.07	0.05	0.21	0.044	0.06	15.7	23.4	0.27	1840	2.31	0.01
ZZ37571		1.07	50.7	3.14	3.86	<0.05	0.05	0.23	0.033	0.09	10.7	18.4	0.45	484	2.69	0.01
ZZ37572		2.35	52.0	3.10	3.86	0.11	0.08	0.14	0.034	0.09	9.3	21.3	0.46	563	13.15	0.01
ZZ37573		0.92	42.8	1.97	2.59	<0.05	0.08	0.18	0.027	0.05	6.9	7.9	0.17	221	4.37	<0.01
ZZ37574		2.10	51.1	3.33	4.53	0.05	0.07	0.10	0.031	0.10	10.2	22.0	0.54	482	1.49	0.01
ZZ37575		1.46	24.3	2.62	5.80	<0.05	<0.02	0.04	0.026	0.07	9.7	14.4	0.33	214	1.79	<0.01
ZZ37576		2.30	15.4	2.83	5.89	<0.05	<0.02	0.01	0.018	0.05	10.0	5.1	0.11	281	1.44	<0.01
ZZ37577		2.65	20.4	2.85	5.01	<0.05	0.02	0.01	0.020	0.07	6.7	10.0	0.22	376	1.61	<0.01
ZZ37578		1.15	18.0	3.18	5.86	<0.05	0.03	0.01	0.024	0.07	9.3	8.6	0.16	408	1.87	<0.01
ZZ37579		2.48	33.6	3.35	5.00	<0.05	0.03	0.04	0.032	0.08	8.3	20.7	0.40	342	1.62	<0.01
ZZ37580		2.74	28.1	3.89	5.86	<0.05	0.02	0.02	0.039	0.08	8.5	20.1	0.39	619	1.74	<0.01



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**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ37541	0.27	23.5	830	12.3	8.8	<0.001	0.11	0.61	4.0	1.3	0.3	106.0	<0.01	0.09	0.8	
ZZ37542	0.30	35.3	570	19.7	10.2	0.001	0.04	0.43	6.8	1.6	0.4	46.4	<0.01	0.05	2.8	
ZZ37543	0.28	31.1	540	16.9	9.2	0.001	0.06	0.63	7.8	1.7	0.3	47.9	<0.01	0.07	2.0	
ZZ37544	0.50	26.4	160	20.1	12.6	<0.001	0.01	0.46	4.7	0.5	0.6	8.4	<0.01	0.06	4.1	
ZZ37545	0.82	24.3	320	25.8	16.8	<0.001	0.01	0.40	6.3	0.6	0.8	13.4	<0.01	0.07	4.7	
ZZ37546	0.24	41.0	660	22.9	8.3	<0.001	0.01	0.51	8.4	0.7	0.3	34.5	<0.01	0.07	6.5	
ZZ37547	0.37	32.9	510	16.1	9.6	<0.001	0.05	0.46	7.2	0.9	0.4	44.6	<0.01	0.06	3.5	
ZZ37548	0.37	25.6	640	14.0	11.5	0.002	0.30	0.33	5.8	1.9	0.4	74.8	<0.01	0.03	2.5	
ZZ37549	0.80	26.1	610	13.8	11.9	0.001	0.06	0.53	3.3	1.4	0.5	62.8	<0.01	0.07	1.0	
ZZ37550	0.32	36.3	940	14.8	11.9	0.001	0.07	0.46	6.4	1.9	0.3	65.2	<0.01	0.07	1.9	
ZZ37551	0.79	26.2	470	24.9	11.7	<0.001	0.03	0.62	3.2	0.4	0.5	37.1	<0.01	0.06	2.5	
ZZ37552	0.13	41.4	240	17.1	9.0	<0.001	0.01	0.41	9.1	0.6	0.3	18.3	<0.01	0.12	4.7	
ZZ37553	0.20	31.3	280	16.7	10.8	<0.001	0.01	0.35	4.6	0.5	0.3	9.5	<0.01	0.08	4.4	
ZZ37554	0.10	37.7	380	17.8	7.5	<0.001	0.03	0.50	7.9	1.0	0.3	38.2	<0.01	0.08	4.5	
ZZ37555	0.12	40.8	430	16.2	7.6	<0.001	0.03	0.41	8.0	0.5	0.2	33.3	<0.01	0.08	3.6	
ZZ37556	0.33	25.5	620	18.3	8.4	<0.001	0.05	0.71	5.0	0.7	0.3	44.4	<0.01	0.06	1.7	
ZZ37557	0.10	19.8	870	15.5	6.2	<0.001	0.10	0.38	2.7	1.3	0.2	98.7	<0.01	0.04	1.1	
ZZ37558	0.20	22.1	760	12.6	9.3	0.001	0.03	2.69	0.7	1.4	0.5	7.6	<0.01	0.09	<0.2	
ZZ37559	0.22	29.7	1010	19.5	8.2	0.001	0.03	5.10	1.2	3.0	0.5	7.3	<0.01	0.11	0.4	
ZZ37560	0.20	86.2	1800	23.7	9.6	0.003	0.03	4.97	4.7	2.7	0.5	18.9	<0.01	0.05	1.3	
ZZ37561	0.13	174.0	1700	17.7	5.8	0.004	0.05	9.30	5.9	8.0	0.6	95.9	<0.01	0.15	2.1	
ZZ37562	0.70	26.5	620	19.3	11.8	0.001	0.09	3.34	2.7	2.6	0.6	26.5	<0.01	0.07	2.7	
ZZ37563	0.55	15.9	340	14.1	13.1	0.001	0.01	1.07	2.0	1.1	0.6	7.2	<0.01	0.07	1.6	
ZZ37564	0.33	40.4	400	25.8	9.7	0.001	0.02	1.98	3.6	1.4	0.5	15.5	<0.01	0.06	2.7	
ZZ37565	0.27	62.2	910	25.3	7.7	0.003	0.04	2.97	5.4	2.0	0.4	42.7	<0.01	0.07	3.5	
ZZ37566	0.38	36.6	880	18.4	7.4	0.003	0.02	1.23	5.1	1.3	0.4	27.0	<0.01	0.04	3.4	
ZZ37567	0.39	38.8	810	20.1	7.0	0.001	0.02	1.39	5.1	1.5	0.4	29.7	<0.01	0.04	3.8	
ZZ37568	0.33	36.0	640	21.5	7.2	0.001	0.02	1.51	4.9	2.0	0.4	27.0	<0.01	0.04	3.5	
ZZ37569	0.44	31.2	730	17.7	9.0	0.001	0.02	1.15	3.9	0.9	0.5	34.4	<0.01	0.04	2.0	
ZZ37570	0.31	37.6	1590	26.1	8.5	0.001	0.05	0.82	5.7	2.1	0.2	39.7	0.01	0.03	2.3	
ZZ37571	0.39	36.0	810	18.4	7.6	0.001	0.04	1.17	5.1	1.4	0.3	37.5	<0.01	0.06	2.7	
ZZ37572	0.35	49.9	790	19.1	11.3	0.007	0.12	1.52	6.1	11.3	42.5	0.4	32.2	<0.01	0.04	2.9
ZZ37573	0.24	45.8	1420	12.9	8.3	0.007	0.12	2.30	3.0	6.1	0.4	63.0	<0.01	0.07	1.1	
ZZ37574	0.44	32.5	710	18.1	9.4	<0.001	0.03	0.83	5.3	1.2	0.4	50.0	<0.01	0.05	3.3	
ZZ37575	0.60	19.4	550	13.8	11.9	<0.001	0.02	0.60	2.6	0.4	0.6	14.7	<0.01	0.04	1.1	
ZZ37576	0.78	11.4	310	16.6	13.7	<0.001	0.01	0.63	2.0	0.4	0.7	5.2	<0.01	0.05	2.9	
ZZ37577	0.41	15.2	460	14.3	10.4	<0.001	0.01	0.48	2.2	0.6	0.6	5.6	<0.01	0.03	1.9	
ZZ37578	0.79	13.1	310	13.4	15.0	<0.001	0.01	0.60	2.1	0.4	0.6	5.7	<0.01	0.05	3.1	
ZZ37579	0.48	23.8	470	16.7	12.1	<0.001	0.02	0.60	3.1	0.2	0.5	7.5	<0.01	0.04	2.5	
ZZ37580	0.79	23.8	440	18.5	13.0	<0.001	0.01	0.70	3.0	0.5	0.6	7.4	<0.01	0.06	3.2	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37541		0.005	0.11	1.41	29	0.07	9.07	78	2.1
ZZ37542		<0.005	0.26	0.76	30	0.08	13.40	97	2.7
ZZ37543		0.006	0.15	1.03	37	0.08	11.90	97	2.1
ZZ37544		0.011	0.16	0.46	49	0.14	3.35	63	2.0
ZZ37545		0.009	0.17	0.90	63	0.18	5.14	63	2.5
ZZ37546		0.006	0.07	0.74	42	<0.05	11.45	92	5.6
ZZ37547		0.008	0.09	1.25	35	0.10	10.20	81	3.8
ZZ37548		0.006	0.08	5.68	30	<0.05	8.64	78	3.5
ZZ37549		0.020	0.11	4.72	41	0.19	5.36	74	1.2
ZZ37550		0.006	0.14	6.71	42	0.06	9.79	135	3.5
ZZ37551		0.016	0.11	2.48	48	0.17	6.40	60	1.5
ZZ37552		0.005	0.08	0.39	70	<0.05	13.95	76	3.8
ZZ37553		0.006	0.07	0.28	68	<0.05	3.52	64	3.4
ZZ37554		<0.005	0.07	0.80	48	<0.05	13.70	81	4.7
ZZ37555		0.005	0.07	0.41	56	<0.05	7.98	77	3.4
ZZ37556		0.011	0.06	1.05	33	0.09	9.36	77	1.6
ZZ37557		<0.005	0.08	1.66	25	<0.05	9.78	83	2.2
ZZ37558		0.006	0.11	0.50	43	0.09	2.88	195	<0.5
ZZ37559		0.007	0.21	1.05	54	0.10	3.65	234	<0.5
ZZ37560		0.008	0.38	1.33	58	0.07	15.05	323	0.5
ZZ37561		0.005	0.22	4.30	181	0.12	33.2	686	1.7
ZZ37562		0.009	0.54	0.65	60	0.14	2.42	174	0.6
ZZ37563		0.009	0.19	0.39	55	0.13	2.08	79	<0.5
ZZ37564		0.005	0.35	0.77	43	0.07	4.14	194	0.9
ZZ37565		0.007	0.34	1.28	58	0.07	13.15	345	0.7
ZZ37566		0.009	0.15	1.06	42	0.10	10.90	143	1.7
ZZ37567		0.010	0.18	1.01	42	0.11	10.60	149	1.7
ZZ37568		0.007	0.20	0.98	40	0.08	9.53	149	1.8
ZZ37569		0.010	0.18	0.99	46	0.12	7.54	132	1.0
ZZ37570		0.005	0.15	1.69	39	0.07	20.2	151	1.8
ZZ37571		0.008	0.17	1.36	44	0.08	11.75	129	1.9
ZZ37572		0.006	0.65	5.08	41	0.06	12.50	158	2.6
ZZ37573		<0.005	0.35	4.95	100	0.10	16.35	186	2.5
ZZ37574		0.010	0.14	1.03	40	0.12	10.35	107	2.5
ZZ37575		0.014	0.15	0.82	54	0.27	4.91	73	<0.5
ZZ37576		0.019	0.12	0.39	57	0.16	1.67	69	0.5
ZZ37577		0.007	0.14	0.41	43	0.14	2.03	59	0.5
ZZ37578		0.018	0.11	0.40	53	0.12	2.28	67	1.3
ZZ37579		0.008	0.13	0.70	45	0.13	4.15	87	0.8
ZZ37580		0.014	0.15	0.55	52	0.20	3.14	84	0.6



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37581		0.12	0.009	0.10	1.08	10.2	<0.2	<10	250	0.95	0.30	0.06	0.32	16.65	6.7	20
ZZ37582		0.14	0.003	0.10	1.76	20.8	<0.2	<10	140	0.86	0.28	0.07	0.27	23.2	13.0	28
ZZ37583		0.15	0.002	0.02	0.76	4.0	<0.2	<10	60	0.90	0.33	0.03	0.07	5.38	12.2	13
ZZ37584		0.15	0.005	0.27	1.23	11.1	<0.2	<10	440	0.89	0.23	2.49	0.75	10.80	9.4	20
ZZ37585		0.18	0.003	0.13	1.53	15.2	<0.2	<10	190	0.57	0.29	0.50	0.31	18.90	8.8	26
ZZ37586		0.20	0.004	0.17	1.26	15.9	<0.2	<10	390	1.17	0.29	0.82	0.31	15.20	12.3	23
ZZ37587		0.19	0.010	0.06	1.11	10.2	<0.2	<10	50	0.83	0.70	0.02	0.08	4.28	12.8	29
ZZ37588		0.15	0.001	0.03	0.30	4.6	<0.2	<10	180	1.19	0.45	0.06	0.12	7.24	14.9	10
ZZ37589		0.20	0.002	0.05	0.44	7.1	<0.2	<10	180	1.26	0.40	0.24	0.08	9.85	10.5	12
ZZ37590		0.16	0.008	0.55	1.17	22.6	<0.2	<10	520	1.06	0.26	0.87	0.46	14.35	11.5	22
ZZ37591		0.17	0.003	0.45	0.82	20.7	<0.2	<10	290	1.08	0.29	0.66	0.96	8.98	7.1	19
ZZ37592		0.15	0.007	0.09	0.77	73.2	<0.2	<10	510	0.52	0.32	0.05	1.21	8.88	7.5	21
ZZ37593		0.16	0.006	0.46	0.83	13.9	<0.2	<10	400	0.74	0.23	0.78	0.84	13.15	11.2	16
ZZ37594		0.21	0.001	0.20	1.49	18.3	<0.2	<10	150	0.70	0.26	0.04	0.45	19.70	10.0	23
ZZ37595		0.12	0.004	0.09	0.84	13.3	<0.2	<10	300	0.57	0.23	0.11	0.49	14.55	7.4	13
ZZ37596		0.16	0.001	0.24	1.21	15.3	<0.2	<10	330	0.61	0.25	0.57	0.42	16.95	9.0	21
ZZ37597		0.16	0.001	0.13	1.23	13.9	<0.2	<10	260	0.64	0.25	0.11	0.50	13.75	7.3	19
ZZ37598		0.17	0.006	0.34	1.32	17.0	<0.2	<10	460	0.73	0.24	1.33	0.75	14.20	11.8	21
ZZ37599		0.13	0.004	0.66	1.20	13.3	<0.2	<10	1090	1.37	0.22	0.89	1.18	25.8	13.4	21
ZZ37600		0.17	0.003	0.23	0.91	13.4	<0.2	<10	240	0.56	0.28	0.17	0.57	14.20	10.8	18
ZZ37601		0.18	0.009	0.71	0.71	8.6	<0.2	<10	430	0.58	0.23	1.04	1.25	13.50	7.7	12
ZZ37602		0.09	0.009	1.42	1.35	8.2	<0.2	<10	740	1.10	0.24	1.09	1.07	12.35	10.0	21
ZZ37603		0.25	0.002	0.10	1.45	13.5	<0.2	<10	280	0.79	0.27	0.23	0.34	11.20	15.0	25
ZZ37604		0.19	0.004	0.47	1.16	14.3	<0.2	<10	270	0.84	0.27	0.74	0.70	11.75	10.1	18
ZZ37605		0.12	0.003	0.29	1.58	152.5	<0.2	<10	220	1.09	0.24	0.52	0.80	29.6	17.2	34
ZZ37606		0.21	0.007	0.31	1.43	55.2	<0.2	<10	220	0.91	0.23	3.60	0.77	14.60	11.0	24
ZZ37607		0.11	0.003	0.35	1.22	57.1	<0.2	<10	210	0.84	0.25	3.10	3.65	23.3	7.6	33
ZZ37608		0.10	0.009	0.28	1.24	203	<0.2	<10	210	0.91	0.20	2.76	1.01	14.60	9.2	26
ZZ37609		0.12	0.007	0.51	1.08	167.5	<0.2	<10	120	0.64	0.18	2.28	2.83	17.95	7.6	29
ZZ37610		0.18	0.002	0.20	1.05	86.3	<0.2	<10	270	0.38	0.23	1.26	0.53	9.50	5.7	17
ZZ37611		0.16	0.002	0.49	1.08	94.1	<0.2	<10	440	0.50	0.20	2.29	0.85	13.50	7.6	33
ZZ37612		0.14	0.001	0.19	1.93	155.0	<0.2	<10	230	1.36	0.34	1.22	1.67	35.7	9.1	38
ZZ37613		0.12	0.011	0.58	0.72	177.0	<0.2	<10	270	0.53	0.14	3.25	1.54	10.65	5.0	19
ZZ37614		0.21	0.009	0.46	1.37	367	<0.2	<10	220	1.00	0.22	6.92	2.18	21.2	9.7	28
ZZ37615		0.14	0.015	0.62	0.92	329	<0.2	<10	260	0.69	0.16	3.47	1.51	11.40	6.6	23
ZZ37616		0.18	0.016	0.55	1.01	186.5	<0.2	<10	340	0.63	0.18	3.04	1.45	14.25	8.9	23
ZZ37617		0.14	0.009	0.63	0.84	190.5	<0.2	<10	290	0.63	0.17	2.96	0.69	12.75	7.7	19
ZZ37618		0.18	0.005	0.31	1.53	58.0	<0.2	<10	430	0.78	0.24	1.73	0.26	22.0	12.6	25
ZZ37619		0.19	0.004	0.23	1.62	31.2	<0.2	<10	370	0.78	0.25	1.78	0.43	24.5	15.7	26
ZZ37620		0.18	0.002	0.58	1.07	49.8	<0.2	<10	410	0.83	0.20	2.90	0.99	21.4	10.1	22





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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37581		2.22	29.6	2.75	4.65	<0.05	<0.02	0.03	0.026	0.07	7.7	10.4	0.21	279	1.22	0.01
ZZ37582		1.13	35.8	4.08	5.74	<0.05	0.05	0.04	0.038	0.09	10.5	30.5	0.50	492	1.75	<0.01
ZZ37583		2.02	18.2	3.86	2.17	<0.05	0.02	0.02	0.050	0.05	2.2	8.3	0.11	373	0.52	<0.01
ZZ37584		1.13	27.7	2.55	3.58	<0.05	0.05	0.11	0.032	0.08	5.8	12.0	0.22	550	0.88	0.01
ZZ37585		1.48	20.7	3.33	6.47	<0.05	<0.02	0.02	0.028	0.07	9.1	17.0	0.30	482	1.58	<0.01
ZZ37586		1.98	39.0	3.21	4.02	<0.05	0.05	0.07	0.032	0.07	7.0	19.3	0.38	646	1.80	0.01
ZZ37587		4.37	20.4	5.39	4.13	<0.05	0.02	0.02	0.038	0.07	1.8	14.3	0.33	1270	2.19	<0.01
ZZ37588		1.11	29.3	3.23	1.52	<0.05	0.02	0.07	0.047	0.06	3.4	3.0	0.07	1020	0.84	<0.01
ZZ37589		1.68	29.9	3.49	1.68	<0.05	0.02	0.05	0.046	0.07	5.1	5.8	0.12	482	0.90	<0.01
ZZ37590		1.39	52.6	3.06	3.71	<0.05	0.08	0.14	0.041	0.09	6.5	15.2	0.40	360	2.41	0.01
ZZ37591		1.81	37.1	2.34	2.89	<0.05	0.07	0.15	0.040	0.08	4.9	11.8	0.24	344	6.09	<0.01
ZZ37592		2.49	44.9	5.16	2.91	<0.05	0.05	0.10	0.049	0.08	4.4	8.6	0.15	223	22.1	0.01
ZZ37593		0.77	45.8	3.19	2.56	<0.05	0.06	0.16	0.043	0.10	6.1	12.6	0.25	312	3.28	<0.01
ZZ37594		1.19	31.5	3.74	4.49	<0.05	0.03	0.07	0.036	0.08	9.1	26.7	0.41	240	2.80	<0.01
ZZ37595		0.81	41.3	2.55	2.97	<0.05	0.02	0.07	0.037	0.09	6.9	7.3	0.15	178	3.46	<0.01
ZZ37596		0.90	29.0	2.74	4.51	<0.05	0.03	0.06	0.029	0.07	8.1	17.7	0.42	310	2.02	<0.01
ZZ37597		0.85	34.3	2.89	4.43	<0.05	0.02	0.04	0.037	0.08	6.2	10.7	0.19	239	2.94	<0.01
ZZ37598		0.96	37.4	2.79	4.07	<0.05	0.06	0.16	0.038	0.09	6.9	22.6	0.43	410	1.77	0.01
ZZ37599		1.13	40.4	2.90	3.06	0.06	0.04	0.16	0.037	0.07	11.2	18.1	0.23	355	2.55	0.01
ZZ37600		1.40	39.6	2.80	3.55	<0.05	0.03	0.07	0.033	0.09	6.5	11.9	0.22	520	3.33	<0.01
ZZ37601		0.83	48.4	2.09	2.37	<0.05	0.05	0.18	0.036	0.09	5.9	10.0	0.24	435	2.36	0.01
ZZ37602		2.06	46.5	2.49	3.99	0.05	0.05	0.32	0.045	0.10	5.6	26.9	0.44	313	1.50	0.01
ZZ37603		1.37	31.0	3.45	4.70	<0.05	0.03	0.04	0.045	0.09	5.1	36.5	0.46	385	1.79	0.01
ZZ37604		2.58	40.4	3.00	3.06	0.05	0.05	0.17	0.038	0.10	4.9	20.7	0.29	326	1.64	0.01
ZZ37605		0.91	29.6	3.51	4.68	<0.05	0.06	0.22	0.040	0.09	15.0	14.7	0.33	703	7.05	<0.01
ZZ37606		0.71	37.2	3.06	4.11	<0.05	0.06	0.23	0.035	0.08	11.7	17.4	0.44	335	1.49	0.01
ZZ37607		0.77	17.9	2.35	3.49	0.07	0.03	0.16	0.034	0.08	34.7	8.5	0.21	488	0.76	0.01
ZZ37608		1.79	25.6	2.04	3.72	<0.05	0.05	0.92	0.030	0.06	13.7	12.3	0.24	323	0.74	0.01
ZZ37609		0.98	15.2	1.79	2.85	<0.05	0.02	0.67	0.027	0.03	11.5	6.9	0.10	640	0.84	0.01
ZZ37610		0.69	22.3	2.14	4.12	<0.05	0.02	0.06	0.029	0.05	4.9	10.3	0.14	150	2.45	0.01
ZZ37611		0.75	15.6	1.99	3.28	<0.05	0.03	0.17	0.027	0.04	7.2	12.7	0.27	304	1.33	0.01
ZZ37612		1.33	14.3	3.15	5.55	0.09	0.03	0.14	0.040	0.05	36.5	13.4	0.39	667	1.29	0.01
ZZ37613		1.08	22.8	1.18	2.08	0.05	0.04	1.46	0.019	0.04	10.9	6.1	0.13	263	0.76	0.01
ZZ37614		1.85	23.6	2.70	4.01	0.06	0.04	1.11	0.029	0.06	24.4	15.8	0.34	481	1.82	0.01
ZZ37615		1.22	26.4	1.74	2.72	<0.05	0.04	1.11	0.023	0.05	11.6	10.2	0.23	367	1.18	0.01
ZZ37616		1.13	29.3	1.88	2.99	0.05	0.05	1.12	0.026	0.06	12.0	12.9	0.31	522	0.73	0.01
ZZ37617		0.97	28.8	1.82	2.61	<0.05	0.04	0.58	0.028	0.05	8.8	11.0	0.24	428	0.88	0.01
ZZ37618		1.05	64.0	3.53	4.90	0.06	0.07	0.26	0.035	0.10	12.0	27.2	0.76	318	1.31	0.01
ZZ37619		1.20	67.6	3.87	5.02	0.05	0.09	0.18	0.032	0.11	12.1	30.2	1.14	477	1.26	0.01
ZZ37620		0.73	32.7	3.00	3.29	0.05	0.05	0.34	0.037	0.06	12.8	16.9	1.20	552	2.38	0.01

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**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37581		0.31	15.3	610	16.1	9.4	<0.001	0.02	0.49	1.7	0.5	0.7	9.6	<0.01	0.02	0.7
ZZ37582		0.48	27.8	320	19.9	12.9	<0.001	0.01	0.71	3.5	0.7	0.5	8.7	<0.01	0.08	3.4
ZZ37583		0.10	22.2	360	16.6	7.4	<0.001	0.01	0.43	4.5	0.3	0.8	7.9	<0.01	0.02	1.5
ZZ37584		0.42	24.0	940	14.9	8.9	0.001	0.09	0.54	3.2	0.9	0.5	54.9	<0.01	0.05	0.9
ZZ37585		0.82	17.6	410	16.2	13.5	<0.001	0.01	0.55	2.6	0.4	0.6	21.0	<0.01	0.07	1.6
ZZ37586		0.30	26.4	530	19.0	10.1	<0.001	0.03	0.60	4.0	1.2	0.4	42.6	<0.01	0.07	2.0
ZZ37587		0.31	19.6	250	26.7	12.2	<0.001	0.01	0.62	4.3	0.4	0.8	5.4	<0.01	0.03	4.0
ZZ37588		0.07	25.1	140	14.6	5.4	<0.001	<0.01	0.33	5.3	0.4	0.3	30.2	<0.01	0.03	2.4
ZZ37589		0.17	22.0	210	13.0	7.0	<0.001	0.01	0.47	6.7	0.4	0.4	46.9	<0.01	0.01	2.6
ZZ37590		0.23	36.0	800	15.3	12.7	0.001	0.04	1.21	5.2	1.9	0.4	48.8	<0.01	0.04	1.8
ZZ37591		0.21	28.3	640	16.4	10.8	0.003	0.06	1.21	4.5	3.0	0.5	71.7	<0.01	0.04	1.7
ZZ37592		0.23	45.4	820	22.1	11.0	0.001	0.05	2.33	3.4	2.3	0.5	24.9	<0.01	0.12	2.4
ZZ37593		0.19	38.7	810	14.6	7.9	0.002	0.04	1.33	4.5	2.2	0.4	43.9	<0.01	0.03	2.4
ZZ37594		0.40	31.1	490	16.4	9.5	<0.001	0.01	0.98	3.4	1.2	0.5	11.4	<0.01	0.06	3.1
ZZ37595		0.19	29.9	450	12.6	9.5	<0.001	0.01	1.40	3.0	1.2	0.4	13.7	<0.01	0.05	2.2
ZZ37596		0.51	24.3	520	15.7	8.4	<0.001	0.02	0.71	3.0	1.3	0.5	38.2	<0.01	0.03	2.3
ZZ37597		0.40	24.9	340	18.5	8.8	<0.001	0.01	1.25	3.0	0.9	0.6	11.7	<0.01	0.05	2.5
ZZ37598		0.30	30.1	530	17.4	8.8	0.002	0.06	0.85	4.1	2.5	0.4	61.2	<0.01	0.05	1.5
ZZ37599		0.24	36.2	920	16.0	9.3	0.001	0.07	1.05	5.1	2.2	0.4	64.3	<0.01	0.02	2.5
ZZ37600		0.27	29.2	760	17.8	9.3	0.001	0.02	1.61	2.7	1.7	0.5	15.0	<0.01	0.04	2.5
ZZ37601		0.24	31.9	820	14.5	9.0	0.003	0.07	1.64	3.5	3.8	0.4	47.0	<0.01	0.06	2.0
ZZ37602		0.25	44.5	840	13.7	14.4	0.002	0.09	1.08	5.6	3.4	0.5	63.3	<0.01	0.05	1.8
ZZ37603		0.21	45.2	630	18.9	9.5	0.001	0.07	0.71	4.2	1.5	0.5	41.0	<0.01	0.06	3.1
ZZ37604		0.17	47.8	760	16.5	12.9	0.003	0.07	0.71	4.6	1.9	0.4	39.3	<0.01	0.05	2.1
ZZ37605		0.39	63.9	320	17.0	10.0	0.001	0.01	0.97	6.5	1.7	0.5	17.3	<0.01	0.06	3.9
ZZ37606		0.21	37.3	710	17.4	7.3	0.001	0.05	0.78	3.4	1.4	0.4	34.8	<0.01	0.05	1.1
ZZ37607		0.50	26.2	1230	17.8	8.8	<0.001	0.09	0.56	2.2	2.0	0.5	30.4	0.01	0.04	0.7
ZZ37608		0.54	40.0	880	14.0	9.4	<0.001	0.08	0.66	3.0	2.1	0.5	29.2	<0.01	0.05	1.0
ZZ37609		0.57	28.1	1250	12.6	5.8	<0.001	0.07	0.55	1.6	1.4	0.4	30.8	<0.01	0.03	0.3
ZZ37610		0.50	21.8	800	12.1	6.1	0.001	0.03	0.95	2.2	1.5	0.5	25.6	<0.01	0.05	1.4
ZZ37611		0.57	24.0	640	12.7	4.9	0.001	0.06	0.70	1.8	1.7	0.4	40.5	<0.01	0.06	0.6
ZZ37612		0.79	26.7	750	21.6	8.7	<0.001	0.04	0.69	3.5	1.9	0.6	20.0	<0.01	0.06	1.3
ZZ37613		0.36	28.1	1040	23.6	4.5	0.005	0.11	1.31	1.5	3.6	0.3	40.0	<0.01	0.02	0.5
ZZ37614		0.44	34.9	820	40.7	8.6	0.001	0.03	0.99	4.4	1.8	0.5	57.6	<0.01	0.06	1.7
ZZ37615		0.31	26.4	1020	68.4	6.2	0.001	0.11	1.16	1.6	2.4	0.3	41.4	<0.01	0.06	0.4
ZZ37616		0.39	30.9	940	32.1	7.7	0.001	0.09	0.86	2.3	2.3	0.3	44.2	<0.01	0.05	0.8
ZZ37617		0.33	24.4	970	17.6	6.2	0.001	0.09	0.99	1.8	2.1	0.3	40.4	<0.01	0.07	0.5
ZZ37618		0.27	34.2	560	17.5	6.4	0.001	0.03	0.74	6.3	1.3	0.3	62.0	<0.01	0.05	3.1
ZZ37619		0.23	37.0	730	18.3	6.5	0.001	0.02	0.78	6.1	1.0	0.3	52.0	<0.01	0.09	3.9
ZZ37620		0.40	34.0	760	23.7	6.5	<0.001	0.04	1.16	6.1	1.3	0.3	59.5	<0.01	0.03	1.9

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37581		0.009	0.10	0.73	36	0.15	5.67	59	<0.5
ZZ37582		0.007	0.14	0.58	57	0.11	3.27	99	1.4
ZZ37583		<0.005	0.14	0.28	17	<0.05	3.41	66	0.5
ZZ37584		<0.005	0.14	1.01	43	0.09	11.20	107	1.4
ZZ37585		0.013	0.14	0.60	62	0.17	3.20	131	<0.5
ZZ37586		0.006	0.11	1.39	38	0.08	8.44	85	1.6
ZZ37587		0.008	0.07	1.35	26	0.12	3.53	74	0.9
ZZ37588		<0.005	0.06	1.03	17	<0.05	5.06	71	0.8
ZZ37589		<0.005	0.09	0.95	19	<0.05	6.01	70	0.6
ZZ37590		<0.005	0.19	4.16	50	0.05	11.25	129	2.2
ZZ37591		<0.005	0.43	1.69	52	0.07	7.99	88	1.9
ZZ37592		0.005	1.84	1.40	71	0.10	4.49	259	1.7
ZZ37593		<0.005	0.21	0.97	44	0.05	9.08	166	1.7
ZZ37594		0.005	0.20	0.63	56	0.08	4.05	121	1.0
ZZ37595		<0.005	0.18	0.84	49	<0.05	6.80	162	0.6
ZZ37596		0.010	0.15	0.94	53	0.13	4.30	97	0.9
ZZ37597		0.006	0.18	0.78	71	0.07	3.83	141	0.8
ZZ37598		<0.005	0.19	2.22	45	0.12	7.95	107	1.6
ZZ37599		<0.005	0.23	1.67	52	0.05	24.8	112	1.3
ZZ37600		0.005	0.26	0.72	55	0.07	6.43	163	0.9
ZZ37601		<0.005	0.26	1.38	40	0.05	11.60	128	1.7
ZZ37602		<0.005	0.30	1.69	36	<0.05	18.50	132	1.6
ZZ37603		<0.005	0.13	1.03	35	<0.05	7.07	141	1.2
ZZ37604		<0.005	0.18	1.27	31	<0.05	16.15	151	1.4
ZZ37605		0.005	0.27	1.88	74	0.15	21.3	184	1.9
ZZ37606		<0.005	0.15	0.88	47	0.07	27.5	123	1.5
ZZ37607		0.012	0.19	0.73	44	0.11	69.1	169	0.8
ZZ37608		0.006	0.46	1.66	43	0.13	32.3	147	1.7
ZZ37609		0.014	0.28	2.91	52	0.12	32.0	166	0.5
ZZ37610		0.007	0.19	0.88	68	0.10	5.27	122	0.9
ZZ37611		0.010	0.16	1.03	77	0.19	8.52	96	0.8
ZZ37612		0.020	0.23	1.06	63	0.23	49.5	131	0.8
ZZ37613		0.008	0.38	2.46	70	0.10	23.7	127	1.4
ZZ37614		0.008	0.40	1.19	58	0.19	43.0	161	1.3
ZZ37615		0.006	0.26	2.54	42	0.16	26.4	162	1.2
ZZ37616		0.007	0.30	1.23	43	0.10	25.2	180	1.6
ZZ37617		0.006	0.24	2.71	38	0.07	18.30	120	1.4
ZZ37618		0.006	0.13	1.16	48	0.07	13.95	100	2.5
ZZ37619		0.006	0.11	0.94	48	<0.05	10.55	110	3.9
ZZ37620		0.006	0.22	1.02	60	0.10	20.2	147	1.6



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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37621		0.16	0.002	0.27	1.29	23.7	<0.2	<10	720	0.54	0.21	1.85	0.89	17.30	12.0	22
ZZ37622		0.20	0.004	0.35	1.19	36.7	<0.2	<10	470	0.57	0.18	2.03	0.67	16.35	9.6	23
ZZ37623		0.20	0.006	0.31	1.14	44.9	<0.2	<10	400	0.56	0.17	4.49	0.92	17.55	9.8	24
ZZ37624		0.17	0.005	0.41	1.35	51.8	<0.2	<10	580	0.55	0.18	1.97	1.09	17.15	12.9	24
ZZ37625		0.11	0.006	0.26	1.23	31.4	<0.2	<10	450	0.40	0.16	2.00	0.63	13.95	8.5	21
ZZ37626		0.10	0.007	0.23	0.97	28.1	<0.2	<10	540	0.48	0.14	3.04	0.70	12.80	9.0	16
ZZ37627		0.13	0.004	0.20	1.54	25.7	<0.2	<10	430	0.66	0.22	1.56	0.41	21.3	13.8	26
ZZ37628		0.27	0.004	0.23	1.20	60.5	<0.2	<10	400	0.63	0.21	0.66	0.25	19.45	11.1	22
ZZ37629		0.20	0.004	0.17	1.65	26.2	<0.2	<10	330	0.64	0.20	1.73	0.48	18.30	15.4	26
ZZ37630		0.18	0.008	0.52	2.42	54.7	<0.2	<10	260	0.86	0.28	0.85	0.92	24.4	16.2	36
ZZ37631		0.26	0.003	0.19	2.35	30.5	<0.2	<10	270	1.00	0.26	0.07	0.29	28.5	16.1	33
ZZ37632		0.20	0.004	0.35	1.32	35.4	<0.2	<10	470	0.66	0.21	3.13	0.67	22.4	13.9	23
ZZ37633		0.27	0.005	0.44	1.20	16.2	<0.2	<10	1050	0.86	0.23	1.25	1.63	21.1	13.9	23
ZZ37634		0.31	0.005	0.65	1.01	19.2	<0.2	<10	890	0.81	0.22	1.78	1.48	20.8	13.5	25
ZZ37635		0.22	0.004	0.41	1.10	24.5	<0.2	<10	650	0.57	0.20	1.58	0.72	16.30	9.3	22
ZZ37636		0.12	0.003	0.30	1.01	18.7	<0.2	<10	630	0.51	0.16	2.36	0.64	10.65	5.9	22
ZZ37637		0.26	0.003	0.23	1.81	19.8	<0.2	<10	230	0.90	0.28	0.49	0.19	32.6	15.2	26
ZZ37638		0.14	0.001	0.55	0.79	28.5	<0.2	<10	960	0.36	0.16	2.88	2.36	13.55	7.7	20
ZZ37639		0.22	0.003	0.49	0.75	17.0	<0.2	<10	480	0.38	0.19	1.96	0.88	12.30	5.7	20
ZZ37640		0.19	0.004	0.99	0.56	27.0	<0.2	<10	720	0.41	0.12	2.64	0.71	9.29	5.7	20
ZZ37641		0.15	0.005	0.64	0.72	42.3	<0.2	<10	550	0.33	0.19	1.07	0.24	8.52	9.3	19
ZZ37642		0.15	0.002	0.49	1.08	26.1	<0.2	<10	760	0.63	0.18	0.41	0.47	11.40	5.7	24
ZZ37643		0.19	0.002	0.17	1.03	21.3	<0.2	<10	400	0.52	0.22	0.14	0.33	19.60	5.9	20
ZZ37644		0.17	0.004	4.41	0.54	19.7	<0.2	<10	1180	0.36	0.13	1.86	0.76	7.38	1.2	26

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37621		0.54	28.1	2.92	4.01	<0.05	0.04	0.25	0.031	0.04	8.2	16.3	0.44	905	1.18	0.01
ZZ37622		0.71	29.5	2.45	3.66	<0.05	0.06	0.32	0.026	0.05	8.4	20.9	0.53	934	0.89	0.01
ZZ37623		0.78	79.7	2.55	3.10	0.10	0.06	0.66	0.052	0.06	15.4	14.7	0.62	604	1.29	0.01
ZZ37624		0.87	40.0	2.57	3.76	0.09	0.07	0.27	0.048	0.06	9.3	13.7	0.41	1280	1.12	0.01
ZZ37625		0.74	31.2	2.50	3.40	0.08	0.05	0.15	0.041	0.06	6.9	13.2	0.47	408	0.96	0.01
ZZ37626		0.76	33.0	1.88	2.90	0.06	0.05	0.16	0.021	0.04	6.2	11.6	0.32	641	0.92	0.01
ZZ37627		1.00	48.9	3.22	4.72	0.09	0.07	0.15	0.030	0.09	10.6	26.6	0.61	569	1.30	<0.01
ZZ37628		0.84	24.9	2.82	3.94	0.08	0.04	0.15	0.030	0.05	9.1	16.3	0.38	452	2.20	<0.01
ZZ37629		1.37	73.9	3.39	5.53	0.07	0.06	0.12	0.030	0.08	9.2	23.2	0.74	461	0.94	<0.01
ZZ37630		1.59	62.9	4.84	7.37	0.10	0.20	0.17	0.043	0.18	11.7	38.2	1.04	487	1.69	<0.01
ZZ37631		1.13	40.6	4.44	6.46	0.09	0.07	0.20	0.044	0.06	11.4	37.2	0.56	571	1.86	<0.01
ZZ37632		0.98	52.6	3.28	4.23	0.09	0.07	0.35	0.030	0.07	10.8	20.7	1.49	510	1.91	<0.01
ZZ37633		1.33	60.7	2.69	3.78	0.09	0.08	0.21	0.037	0.07	9.6	18.4	0.51	576	1.82	<0.01
ZZ37634		1.39	68.5	2.14	3.09	0.10	0.05	0.29	0.033	0.07	10.4	15.6	0.51	204	2.83	<0.01
ZZ37635		1.02	26.4	2.62	3.20	0.07	0.04	0.13	0.029	0.05	9.1	13.2	0.30	383	1.53	<0.01
ZZ37636		0.66	34.4	2.15	3.19	0.06	0.05	0.23	0.026	0.05	6.9	10.9	0.24	197	1.64	<0.01
ZZ37637		1.12	53.4	4.10	5.01	0.11	0.11	0.13	0.035	0.09	16.1	36.7	0.69	440	1.08	<0.01
ZZ37638		0.98	18.0	1.73	2.59	0.07	0.03	0.13	0.026	0.04	11.0	6.8	0.14	575	2.10	<0.01
ZZ37639		1.23	30.3	1.74	2.65	0.06	0.03	0.16	0.024	0.05	7.1	9.3	0.15	207	1.01	<0.01
ZZ37640		0.89	36.4	1.26	1.58	0.08	0.05	0.28	0.021	0.04	6.9	3.9	0.11	448	0.75	<0.01
ZZ37641		1.06	15.7	2.16	2.30	0.06	0.03	0.11	0.033	0.06	4.2	8.6	0.16	139	2.97	<0.01
ZZ37642		0.87	22.1	2.10	3.10	0.07	0.04	0.11	0.031	0.06	7.9	7.9	0.13	117	3.00	<0.01
ZZ37643		1.14	23.1	2.18	4.30	0.06	0.02	0.03	0.024	0.05	10.0	10.4	0.17	125	3.00	<0.01
ZZ37644		0.79	57.4	1.47	2.04	0.07	0.02	0.14	0.023	0.05	4.6	2.5	0.09	20	1.62	<0.01



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37621		0.48	23.8	1010	14.5	5.7	0.001	0.09	0.57	2.9	1.9	0.4	54.8	<0.01	0.06	0.7
ZZ37622		0.36	24.2	1020	13.3	6.9	0.004	0.12	0.64	3.2	2.9	0.3	65.3	<0.01	0.04	1.0
ZZ37623		0.38	26.5	1110	15.3	6.4	0.002	0.08	0.89	5.7	2.3	0.3	60.2	0.01	0.12	0.6
ZZ37624		0.41	25.8	1030	13.1	7.0	0.005	0.13	0.74	3.7	3.0	0.3	42.1	0.01	0.07	0.8
ZZ37625		0.39	21.3	790	10.9	6.5	0.001	0.08	0.62	3.1	1.7	0.3	39.4	0.01	0.05	0.6
ZZ37626		0.39	20.9	980	10.6	7.3	0.001	0.12	0.76	1.9	2.1	0.4	59.8	<0.01	0.05	0.4
ZZ37627		0.34	32.6	740	16.1	9.1	<0.001	0.06	0.72	4.6	1.4	0.4	38.6	<0.01	0.07	1.4
ZZ37628		0.57	29.4	760	15.9	7.8	<0.001	0.03	0.92	3.6	1.2	0.5	28.1	<0.01	0.06	2.2
ZZ37629		0.29	31.1	550	13.8	10.6	<0.001	0.08	0.67	4.7	1.0	0.3	62.4	<0.01	0.07	1.6
ZZ37630		0.34	44.0	1530	18.1	17.4	0.001	0.12	0.68	7.0	1.5	0.6	33.8	<0.01	0.09	2.8
ZZ37631		0.41	33.9	270	23.4	11.5	<0.001	0.04	0.83	5.7	0.9	0.6	9.2	<0.01	0.06	4.8
ZZ37632		0.39	35.9	680	21.9	7.5	<0.001	0.05	1.01	5.6	1.1	0.6	52.9	<0.01	0.06	2.7
ZZ37633		0.33	37.5	800	21.3	8.5	0.003	0.16	1.15	7.0	2.8	0.4	47.6	<0.01	0.09	1.7
ZZ37634		0.32	44.3	820	20.2	10.4	0.004	0.16	1.40	5.7	4.2	0.5	53.0	<0.01	0.08	1.2
ZZ37635		0.47	28.1	660	14.7	8.0	<0.001	0.10	0.86	3.6	1.4	0.4	32.7	<0.01	0.07	1.1
ZZ37636		0.27	24.7	570	12.5	7.7	<0.001	0.11	0.76	3.4	1.3	0.5	54.5	<0.01	0.07	0.8
ZZ37637		0.16	37.1	350	21.0	8.8	<0.001	0.04	0.65	6.9	1.0	0.3	27.7	<0.01	0.07	5.8
ZZ37638		0.53	23.2	740	12.4	9.2	0.001	0.10	0.82	2.1	2.0	0.6	43.8	<0.01	0.07	0.4
ZZ37639		0.63	28.5	630	10.9	9.6	0.004	0.10	0.66	2.3	2.9	0.4	37.9	<0.01	0.06	0.7
ZZ37640		0.24	32.7	1030	7.7	10.2	0.009	0.17	0.82	2.6	5.1	0.4	57.1	<0.01	0.05	0.5
ZZ37641		0.33	29.2	790	12.4	9.3	0.001	0.07	1.07	2.6	1.9	0.4	44.0	<0.01	0.07	1.6
ZZ37642		0.28	36.6	390	11.3	10.7	<0.001	0.04	1.14	3.9	1.7	0.5	20.9	<0.01	0.08	1.7
ZZ37643		0.59	29.9	430	13.0	11.0	0.001	0.05	1.09	2.8	1.3	0.6	22.4	<0.01	0.07	3.0
ZZ37644		0.16	31.8	760	7.9	6.2	0.009	0.12	0.71	2.6	5.1	0.5	88.0	<0.01	0.09	0.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12194357**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37621		0.011	0.09	2.58	49	0.14	8.43	76	1.0
ZZ37622		0.008	0.15	1.83	42	0.14	10.70	117	1.7
ZZ37623		0.010	0.16	1.01	42	0.15	30.7	112	1.3
ZZ37624		0.008	0.19	3.13	49	0.11	13.90	113	1.8
ZZ37625		0.010	0.13	1.56	40	0.11	7.80	108	1.4
ZZ37626		0.009	0.12	2.39	30	0.11	8.20	78	1.4
ZZ37627		0.007	0.13	1.38	41	0.10	11.75	96	2.2
ZZ37628		0.012	0.15	1.17	47	0.21	8.81	93	1.2
ZZ37629		0.006	0.12	1.08	48	0.07	7.77	71	2.0
ZZ37630		0.007	0.18	1.86	64	0.07	12.15	243	5.5
ZZ37631		0.006	0.19	0.83	67	0.09	6.32	104	2.5
ZZ37632		0.009	0.16	1.13	48	0.09	12.80	124	2.1
ZZ37633		0.006	0.19	2.03	53	0.07	16.75	150	2.3
ZZ37634		0.006	0.27	2.95	52	0.07	20.9	121	1.5
ZZ37635		0.011	0.12	1.51	42	0.09	12.50	88	1.0
ZZ37636		0.005	0.12	1.35	50	0.05	11.60	73	1.3
ZZ37637		<0.005	0.10	0.99	37	<0.05	14.70	97	4.2
ZZ37638		0.011	0.15	1.99	49	0.10	17.80	119	0.7
ZZ37639		0.013	0.12	2.34	37	0.14	14.35	105	1.0
ZZ37640		0.005	0.21	6.49	29	0.06	19.25	41	1.7
ZZ37641		0.007	0.14	1.09	40	0.08	6.85	162	1.1
ZZ37642		<0.005	0.19	1.01	67	0.06	13.50	134	1.0
ZZ37643		0.014	0.20	1.10	60	0.13	6.60	94	1.0
ZZ37644		0.005	0.13	6.02	45	0.05	9.76	55	0.5



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**CERTIFICATE OF ANALYSIS WH12194357**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12194358**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 145 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37645		0.15	0.003	0.75	0.78	27.7	<0.2	<10	190	0.26	0.24	0.03	0.19	7.12	4.7	31
ZZ37646		0.21	0.004	0.63	1.56	15.7	<0.2	10	890	0.99	0.29	1.28	1.07	20.4	13.0	28
ZZ37647		0.17	0.006	0.63	0.52	11.3	<0.2	10	1190	0.53	0.19	0.99	0.69	6.29	5.4	18
ZZ37648		0.19	0.004	0.57	0.70	14.2	<0.2	10	2230	0.57	0.25	0.31	0.43	6.14	8.5	18
ZZ37649		0.27	0.003	0.59	0.98	20.9	<0.2	<10	1560	0.66	0.25	0.17	0.41	8.44	7.4	30
ZZ37650		0.15	0.005	0.65	1.81	26.6	<0.2	<10	730	0.78	0.27	0.49	1.70	18.25	10.4	28
ZZ37651		0.32	0.002	0.33	1.46	12.5	<0.2	<10	700	0.51	0.25	0.43	0.17	30.1	8.6	28
ZZ37652		0.20	0.003	0.71	2.36	31.4	<0.2	<10	1740	1.23	0.27	0.36	0.66	34.1	15.2	39
ZZ37653		0.21	0.003	0.32	2.05	33.9	<0.2	<10	600	0.72	0.35	0.12	0.33	15.10	20.3	35
ZZ37654		0.13	0.005	0.60	1.34	13.2	<0.2	<10	500	0.65	0.26	1.27	1.53	20.2	12.6	23
ZZ37655		0.25	0.003	0.26	1.52	16.1	<0.2	<10	350	0.60	0.27	0.84	0.41	16.20	12.3	25
ZZ37656		0.26	0.004	0.19	2.28	17.5	<0.2	<10	300	1.21	0.33	0.90	0.15	24.1	21.4	33
ZZ37657		0.27	0.003	0.17	1.91	21.8	<0.2	<10	260	1.04	0.33	0.92	0.28	21.0	18.5	31
ZZ37658		0.18	0.003	0.10	0.46	11.0	<0.2	<10	170	0.27	0.30	0.17	0.41	6.13	6.5	9
ZZ37659		0.18	0.002	0.10	1.94	20.8	<0.2	<10	180	1.12	0.35	0.45	0.18	29.7	27.9	29
ZZ37660		0.16	0.006	0.18	1.70	13.4	<0.2	<10	220	0.94	0.25	1.62	0.32	19.10	14.3	24
ZZ37661		0.19	0.003	0.15	1.88	12.4	<0.2	<10	170	0.98	0.31	0.76	0.29	26.8	18.0	29
ZZ37662		0.25	0.004	0.18	2.00	11.8	<0.2	<10	150	1.02	0.31	0.88	0.24	30.5	19.1	28
ZZ37663		0.23	0.003	0.14	1.66	42.0	<0.2	<10	140	0.86	0.32	0.61	0.22	27.0	15.4	26
ZZ37664		0.22	0.003	0.16	1.59	42.6	<0.2	<10	180	0.90	0.30	1.36	0.30	24.0	15.4	24
ZZ37665		0.14	0.002	0.15	1.70	17.2	<0.2	<10	190	0.99	0.26	1.76	0.31	18.30	14.2	24
ZZ37666		0.30	0.002	0.27	1.70	20.3	<0.2	<10	250	1.02	0.30	1.24	0.53	28.2	15.5	27
ZZ37667		0.21	0.003	0.18	1.87	18.2	<0.2	<10	240	0.97	0.29	0.73	0.41	30.9	19.8	29
ZZ37668		0.25	0.004	0.14	1.97	12.8	<0.2	<10	140	0.94	0.30	0.56	0.25	35.3	21.6	29
ZZ37669		0.24	0.004	0.15	2.01	12.3	<0.2	<10	150	0.99	0.32	0.50	0.29	36.3	18.8	30
ZZ37670		0.18	0.002	0.16	1.73	13.3	<0.2	<10	210	0.93	0.26	1.21	1.42	23.8	16.2	25
ZZ37671		0.27	0.004	0.18	1.76	16.8	<0.2	<10	160	1.02	0.32	0.44	0.39	32.7	18.2	27
ZZ37672		0.19	0.002	0.27	1.22	27.7	<0.2	<10	520	0.92	0.30	0.91	0.60	16.05	10.4	22
ZZ37673		0.14	0.004	0.32	1.42	25.8	<0.2	<10	690	1.09	0.29	1.71	0.61	14.15	10.7	21
ZZ37674		0.17	0.006	0.18	1.28	35.5	<0.2	<10	580	0.95	0.26	1.58	1.00	19.80	12.5	22
ZZ37675		0.15	0.006	0.32	1.28	17.2	<0.2	<10	560	1.30	0.31	1.61	0.58	12.50	11.0	18
ZZ37676		0.29	0.004	0.34	1.35	20.1	<0.2	<10	230	1.21	0.35	0.50	0.46	19.10	13.6	24
ZZ37677		0.24	0.005	0.43	1.35	23.6	<0.2	<10	340	1.09	0.31	0.83	0.72	21.3	13.2	24
ZZ37678		0.15	0.005	0.32	1.27	17.1	<0.2	<10	480	0.85	0.24	1.61	0.63	16.10	10.7	21
ZZ37679		0.21	0.003	0.31	1.52	18.4	<0.2	<10	480	1.05	0.30	0.93	0.66	22.8	12.2	26
ZZ37680		0.28	0.010	0.17	1.67	23.3	<0.2	<10	310	1.06	0.32	0.38	0.42	23.8	13.1	26
ZZ37681		0.13	0.003	0.16	1.42	18.6	<0.2	<10	300	0.56	0.28	0.52	0.54	17.80	10.7	25
ZZ37682		0.19	0.004	0.30	1.37	20.7	<0.2	<10	450	1.03	0.27	1.06	0.83	26.8	12.8	27
ZZ37683		0.26	0.004	0.25	1.41	22.2	<0.2	<10	310	1.00	0.31	0.34	0.73	26.7	13.8	25
ZZ37684		0.14	0.001	0.73	1.31	20.3	<0.2	<10	690	0.98	0.27	1.43	0.96	16.15	12.1	22

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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37645		0.94	30.0	2.75	3.47	<0.05	<0.02	0.01	0.032	0.08	4.0	3.2	0.07	65	4.90	<0.01
ZZ37646		1.10	67.0	3.11	4.62	0.06	0.11	0.16	0.041	0.14	9.9	31.7	0.59	335	1.95	0.01
ZZ37647		0.77	53.0	2.11	1.47	0.05	0.04	0.21	0.034	0.09	3.5	4.2	0.09	116	4.39	0.01
ZZ37648		0.86	63.2	2.63	1.92	<0.05	0.02	0.18	0.045	0.10	3.3	4.1	0.08	120	4.76	<0.01
ZZ37649		0.67	56.3	3.27	2.64	<0.05	0.02	0.15	0.040	0.09	4.4	6.9	0.12	116	4.71	<0.01
ZZ37650		1.36	30.1	3.22	5.58	<0.05	0.04	0.08	0.041	0.09	9.0	21.1	0.21	331	4.49	0.01
ZZ37651		1.18	16.8	2.63	4.78	0.05	0.02	0.06	0.024	0.06	16.4	14.8	0.44	282	1.50	0.01
ZZ37652		1.70	45.4	4.10	5.11	0.05	0.06	0.15	0.050	0.08	11.7	19.3	0.41	569	4.04	0.01
ZZ37653		1.62	61.6	5.54	6.04	<0.05	0.06	0.03	0.049	0.11	7.2	36.4	0.52	600	4.59	<0.01
ZZ37654		1.85	79.0	3.20	4.29	0.05	0.06	0.28	0.041	0.09	8.8	19.0	0.53	216	2.00	0.01
ZZ37655		1.39	47.0	3.27	5.02	<0.05	0.03	0.06	0.047	0.08	7.2	22.7	0.47	326	1.83	<0.01
ZZ37656		1.19	87.2	4.79	6.60	0.08	0.07	0.24	0.052	0.12	13.0	41.1	0.79	756	0.93	0.01
ZZ37657		1.17	81.8	4.67	5.66	0.05	0.07	0.17	0.044	0.13	10.2	30.8	0.73	605	1.28	0.01
ZZ37658		1.80	56.1	1.67	2.08	<0.05	<0.02	0.05	0.036	0.14	2.9	4.5	0.08	105	4.01	<0.01
ZZ37659		1.28	80.7	5.02	6.12	0.05	0.08	0.26	0.046	0.10	12.4	40.8	0.83	1020	1.00	0.01
ZZ37660		1.13	58.0	3.62	5.00	0.05	0.09	0.10	0.030	0.12	9.3	32.4	0.69	529	0.74	<0.01
ZZ37661		1.25	69.2	4.15	5.46	0.05	0.11	0.12	0.035	0.14	12.6	40.0	0.84	692	0.79	<0.01
ZZ37662		1.33	63.4	4.29	5.85	0.07	0.14	0.08	0.034	0.15	15.0	43.2	0.90	827	0.78	<0.01
ZZ37663		1.07	55.0	4.10	5.09	0.06	0.08	0.06	0.035	0.09	13.2	34.2	0.77	577	3.70	<0.01
ZZ37664		1.28	61.2	3.81	4.99	0.05	0.08	0.12	0.034	0.11	11.6	32.8	0.71	573	4.68	0.01
ZZ37665		1.22	69.4	3.71	4.88	<0.05	0.09	0.12	0.035	0.12	9.8	31.9	0.69	569	2.20	0.01
ZZ37666		1.22	66.9	3.70	5.23	0.06	0.10	0.14	0.039	0.11	13.6	36.7	0.72	651	3.14	<0.01
ZZ37667		1.15	66.2	3.94	5.92	0.06	0.10	0.11	0.037	0.09	14.4	40.6	0.81	466	3.65	<0.01
ZZ37668		1.32	80.4	4.54	6.01	0.08	0.15	0.10	0.032	0.12	16.4	44.3	1.01	742	1.27	<0.01
ZZ37669		1.31	81.6	4.24	6.09	0.08	0.13	0.09	0.037	0.11	17.9	43.1	0.95	649	1.83	0.01
ZZ37670		1.34	53.1	3.67	5.19	0.06	0.09	0.12	0.032	0.11	11.4	38.6	0.73	462	9.08	0.01
ZZ37671		1.19	111.5	4.94	5.48	0.09	0.12	0.15	0.040	0.08	16.0	40.3	0.97	594	1.17	<0.01
ZZ37672		1.21	38.7	3.30	3.94	<0.05	0.05	0.66	0.037	0.08	7.7	17.0	0.45	530	1.92	0.01
ZZ37673		1.48	43.8	3.12	4.10	<0.05	0.07	1.08	0.037	0.11	7.5	15.8	0.42	525	1.54	0.01
ZZ37674		1.16	38.1	4.06	3.86	<0.05	0.06	0.64	0.036	0.09	9.5	18.3	0.53	2650	2.42	<0.01
ZZ37675		5.78	47.1	2.95	3.59	<0.05	0.12	0.26	0.030	0.17	5.6	17.0	0.38	579	1.23	0.01
ZZ37676		4.10	55.5	3.83	4.02	0.06	0.10	0.37	0.035	0.15	10.3	28.1	0.53	627	1.37	0.01
ZZ37677		1.72	53.0	3.70	4.29	0.05	0.08	0.39	0.038	0.12	10.5	25.1	0.55	531	1.95	0.01
ZZ37678		0.94	35.3	2.92	3.94	<0.05	0.06	0.22	0.029	0.09	8.2	21.1	0.45	514	1.48	0.01
ZZ37679		1.07	35.1	3.27	4.68	<0.05	0.06	0.25	0.034	0.10	11.5	26.5	0.49	396	1.64	0.01
ZZ37680		1.10	28.9	3.90	4.67	<0.05	0.06	0.22	0.037	0.08	9.3	25.6	0.44	626	1.69	<0.01
ZZ37681		1.21	22.6	3.12	4.76	<0.05	0.05	0.22	0.032	0.08	8.2	15.9	0.35	523	1.57	<0.01
ZZ37682		0.95	34.3	3.40	4.16	0.05	0.06	0.38	0.033	0.10	12.5	23.0	0.53	897	1.71	0.01
ZZ37683		1.07	34.3	3.71	4.17	0.05	0.05	0.24	0.036	0.08	12.1	22.4	0.42	730	1.79	<0.01
ZZ37684		1.07	49.0	3.14	3.86	<0.05	0.05	0.25	0.033	0.10	7.4	16.0	0.40	584	2.00	0.01

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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ37645	0.29	56.3	890	11.7	10.3	0.001	0.05	1.57	3.3	5.3	0.5	29.7	<0.01	0.19	2.0	
ZZ37646	0.22	47.2	830	17.9	8.6	0.003	0.06	1.02	7.1	2.3	0.5	69.0	<0.01	0.11	3.5	
ZZ37647	0.10	57.8	870	10.9	7.2	0.019	0.11	1.26	5.9	5.6	0.4	108.0	<0.01	0.07	1.5	
ZZ37648	0.06	83.6	1540	12.9	7.5	0.005	0.05	1.65	8.0	2.7	0.4	117.0	<0.01	0.14	2.5	
ZZ37649	0.11	67.8	980	14.9	7.9	0.002	0.02	1.51	5.9	3.0	0.5	51.2	<0.01	0.10	3.1	
ZZ37650	0.43	39.5	530	18.0	14.2	0.001	0.04	1.21	3.9	1.5	0.8	17.8	<0.01	0.07	2.3	
ZZ37651	0.91	23.3	770	13.1	7.7	<0.001	0.01	0.68	4.0	0.9	0.6	31.3	<0.01	0.04	3.2	
ZZ37652	0.38	54.1	560	18.0	11.0	0.001	0.04	1.38	7.4	2.9	0.7	30.5	<0.01	0.08	3.9	
ZZ37653	0.36	41.5	490	22.1	12.9	<0.001	0.04	1.27	5.2	1.6	0.7	26.2	<0.01	0.11	3.6	
ZZ37654	0.58	43.8	780	14.3	9.4	0.002	0.10	1.71	6.5	5.0	0.5	63.2	<0.01	0.10	2.7	
ZZ37655	0.49	28.2	450	13.1	11.0	<0.001	0.02	0.97	4.9	1.1	0.6	42.8	<0.01	0.07	2.8	
ZZ37656	0.30	39.1	390	19.0	9.9	0.001	0.02	0.58	11.2	1.0	0.6	49.3	<0.01	0.10	3.8	
ZZ37657	0.30	38.5	510	20.0	8.8	<0.001	0.03	0.64	9.4	1.0	0.6	42.3	<0.01	0.09	4.1	
ZZ37658	0.25	27.6	470	13.7	13.2	<0.001	0.01	1.89	2.2	1.7	0.5	15.3	<0.01	0.10	2.8	
ZZ37659	0.20	41.5	250	23.0	8.0	<0.001	0.02	0.54	8.7	0.7	0.5	31.5	<0.01	0.12	5.0	
ZZ37660	0.20	30.0	640	15.1	8.0	<0.001	0.06	0.59	5.4	1.8	0.4	69.8	<0.01	0.07	1.9	
ZZ37661	0.16	37.3	600	17.5	7.8	<0.001	0.02	0.56	7.6	1.2	0.4	40.9	<0.01	0.07	4.4	
ZZ37662	0.14	36.5	500	18.3	8.7	<0.001	0.03	0.52	7.4	1.2	0.3	43.7	<0.01	0.07	4.2	
ZZ37663	0.28	32.6	570	19.7	7.6	<0.001	0.02	0.54	6.5	0.7	0.4	34.0	<0.01	0.06	3.8	
ZZ37664	0.25	32.1	680	18.0	8.0	0.001	0.05	0.80	6.5	1.2	0.4	60.6	<0.01	0.09	2.8	
ZZ37665	0.19	31.4	680	15.5	8.7	<0.001	0.06	0.66	6.0	1.2	0.4	73.1	<0.01	0.08	1.9	
ZZ37666	0.33	37.1	800	17.1	9.1	0.001	0.04	0.85	7.3	1.3	0.4	60.5	<0.01	0.08	3.3	
ZZ37667	0.34	36.6	670	19.8	9.2	<0.001	0.03	0.68	7.9	1.3	0.4	38.9	<0.01	0.08	3.6	
ZZ37668	0.11	38.3	720	19.1	7.1	<0.001	0.01	0.55	7.6	0.7	0.3	37.8	<0.01	0.06	5.3	
ZZ37669	0.19	38.7	660	17.8	8.3	<0.001	0.02	0.58	8.4	0.8	0.3	31.4	<0.01	0.07	4.8	
ZZ37670	0.26	66.4	680	15.5	10.5	0.012	0.08	0.81	6.4	3.2	0.4	58.9	<0.01	0.07	2.9	
ZZ37671	0.08	40.4	770	18.9	5.8	<0.001	0.01	0.73	10.9	0.7	0.4	29.9	<0.01	0.12	5.5	
ZZ37672	0.37	30.3	680	27.6	8.6	<0.001	0.05	3.73	3.8	1.1	0.5	30.8	<0.01	0.06	1.5	
ZZ37673	0.41	27.3	930	32.7	10.5	<0.001	0.09	4.88	4.0	1.3	0.5	46.6	<0.01	0.05	1.2	
ZZ37674	0.34	30.2	840	25.5	9.2	0.001	0.08	2.11	3.8	1.4	0.4	32.7	<0.01	0.06	1.3	
ZZ37675	0.28	27.1	780	17.6	18.0	<0.001	0.10	0.77	4.3	1.1	0.5	60.9	<0.01	0.04	1.9	
ZZ37676	0.27	31.6	680	24.6	23.5	<0.001	0.03	0.77	6.9	1.0	0.5	80.2	<0.01	0.04	4.4	
ZZ37677	0.39	36.1	810	22.0	14.1	<0.001	0.03	0.90	5.8	1.3	0.5	62.8	<0.01	0.04	2.7	
ZZ37678	0.43	26.2	770	17.0	10.2	<0.001	0.07	0.73	3.6	1.2	0.4	84.8	<0.01	0.04	1.2	
ZZ37679	0.59	29.9	690	20.1	10.2	<0.001	0.04	0.72	4.9	1.3	0.5	42.0	<0.01	0.04	2.4	
ZZ37680	0.39	30.2	430	26.1	11.3	<0.001	0.01	0.80	4.7	0.8	0.6	20.2	<0.01	0.04	3.7	
ZZ37681	0.58	20.0	790	20.0	11.1	<0.001	0.05	0.64	3.7	0.9	0.6	24.0	<0.01	0.04	1.6	
ZZ37682	0.76	29.8	880	26.4	10.3	<0.001	0.05	0.77	4.9	1.4	0.5	52.7	<0.01	0.02	1.9	
ZZ37683	0.47	32.5	670	23.4	10.0	<0.001	0.01	0.87	5.1	0.8	0.5	20.0	<0.01	0.06	4.1	
ZZ37684	0.40	30.8	730	19.6	8.6	<0.001	0.05	1.00	4.7	1.4	0.5	42.9	<0.01	0.04	1.9	

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To: ATAC RESOURCES LTD.  
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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37645		0.005	0.21	0.66	71	0.07	3.08	170	<0.5
ZZ37646		<0.005	0.17	1.00	56	0.05	15.20	162	3.7
ZZ37647		<0.005	0.12	3.73	46	<0.05	18.45	183	2.0
ZZ37648		<0.005	0.17	2.33	43	<0.05	20.2	249	1.0
ZZ37649		<0.005	0.19	1.50	90	0.06	14.10	221	1.2
ZZ37650		<0.005	0.23	1.96	106	0.11	6.51	139	1.3
ZZ37651		0.032	0.12	1.76	53	0.33	8.43	90	0.5
ZZ37652		0.005	0.28	2.19	105	0.12	13.20	181	2.0
ZZ37653		<0.005	0.21	0.68	72	0.07	3.68	133	3.0
ZZ37654		0.010	0.23	2.16	58	0.22	12.00	134	2.2
ZZ37655		0.008	0.17	0.79	61	0.15	4.23	114	1.1
ZZ37656		<0.005	0.12	1.02	58	0.06	16.45	87	2.3
ZZ37657		0.005	0.12	0.67	55	0.07	10.00	104	2.8
ZZ37658		0.006	0.27	0.67	33	0.05	2.62	227	<0.5
ZZ37659		0.005	0.12	0.62	50	0.05	8.53	87	3.3
ZZ37660		0.005	0.11	1.75	37	0.06	9.43	87	2.6
ZZ37661		0.006	0.08	0.70	40	<0.05	11.20	95	4.0
ZZ37662		0.005	0.08	1.00	40	<0.05	13.95	87	4.3
ZZ37663		0.010	0.08	1.14	40	0.07	9.65	87	2.3
ZZ37664		0.007	0.10	1.58	36	0.06	11.90	91	2.6
ZZ37665		0.005	0.09	3.02	35	<0.05	13.45	88	2.6
ZZ37666		0.008	0.13	2.98	47	0.06	14.30	128	2.9
ZZ37667		0.009	0.09	3.62	47	0.09	13.45	104	2.8
ZZ37668		0.005	0.06	0.97	42	<0.05	10.45	87	5.3
ZZ37669		0.007	0.08	1.12	45	<0.05	13.15	93	3.8
ZZ37670		0.006	0.24	7.93	45	0.05	11.00	407	2.9
ZZ37671		0.006	0.14	0.71	46	<0.05	16.15	94	5.6
ZZ37672		0.007	0.16	1.26	40	0.07	7.95	195	1.3
ZZ37673		0.006	0.17	1.58	38	0.07	9.70	191	2.0
ZZ37674		0.008	0.18	2.29	41	0.09	12.35	229	1.5
ZZ37675		<0.005	0.17	1.61	31	<0.05	10.55	120	3.0
ZZ37676		0.006	0.16	1.07	40	0.06	15.55	131	2.7
ZZ37677		0.007	0.15	2.03	44	0.07	14.60	145	2.0
ZZ37678		0.008	0.12	2.50	39	0.06	9.98	116	1.6
ZZ37679		0.012	0.12	2.67	48	0.12	11.90	125	1.6
ZZ37680		0.005	0.18	0.98	47	0.08	6.97	118	1.5
ZZ37681		0.010	0.14	1.82	50	0.11	5.71	117	1.2
ZZ37682		0.015	0.15	2.63	47	0.10	13.50	135	1.3
ZZ37683		0.009	0.17	1.16	45	0.11	11.20	141	1.4
ZZ37684		0.007	0.16	1.86	42	0.09	9.74	133	1.7



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**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37685		0.17	0.004	0.40	1.43	18.5	<0.2	<10	280	1.68	0.28	1.33	0.70	17.80	10.2	21
ZZ37686		0.19	0.003	0.31	1.45	15.9	<0.2	<10	560	0.90	0.27	0.92	0.43	29.5	12.4	26
ZZ37687		0.20	0.005	0.21	1.78	9.0	<0.2	<10	1320	2.32	0.46	1.04	0.25	9.42	13.9	24
ZZ37688		0.09	0.001	0.27	1.03	12.3	<0.2	<10	300	0.47	0.25	0.18	0.28	16.55	5.3	15
ZZ37689		0.12	<0.001	0.17	0.86	12.5	<0.2	<10	60	0.15	0.29	0.03	0.07	25.0	2.9	12
ZZ37690		0.22	0.004	0.21	1.03	18.7	<0.2	<10	50	0.33	0.38	0.02	0.17	13.60	7.6	18
ZZ37691		0.13	0.006	2.01	1.34	19.6	<0.2	<10	400	1.16	0.30	1.06	0.97	21.8	13.9	20
ZZ37692		0.29	0.004	0.44	1.32	14.6	<0.2	<10	370	0.95	0.29	1.07	0.75	13.45	8.6	20
ZZ37693		0.23	0.003	0.42	0.95	14.1	<0.2	<10	160	1.12	0.28	1.37	0.90	15.90	12.4	17
ZZ37694		0.25	0.002	0.31	0.97	13.1	<0.2	<10	200	1.01	0.23	1.79	0.70	16.85	11.7	18
ZZ37695		0.22	0.001	0.36	1.10	14.4	<0.2	<10	360	1.09	0.28	1.65	1.10	16.85	11.6	19
ZZ37696		0.18	0.002	0.27	0.97	14.9	<0.2	<10	310	0.86	0.26	1.24	0.72	15.75	9.5	18
ZZ37697		0.27	0.002	0.23	1.24	16.1	<0.2	<10	380	0.89	0.25	1.09	1.00	21.6	14.5	22
ZZ37698		0.19	0.003	0.30	1.32	17.4	<0.2	<10	640	0.88	0.26	2.42	0.74	22.2	13.7	22
ZZ37699		0.26	0.003	0.28	1.15	19.7	<0.2	<10	310	0.94	0.29	1.45	0.51	20.9	14.2	20
ZZ37700		0.24	0.004	0.18	1.64	18.1	<0.2	<10	500	0.93	0.33	0.78	0.56	29.2	15.8	27
ZZ37701		0.22	0.003	0.30	1.38	19.1	<0.2	<10	440	0.99	0.27	1.03	0.84	23.3	14.5	25
ZZ37702		0.24	0.003	0.29	1.33	21.9	<0.2	<10	470	0.96	0.28	1.50	0.51	18.75	12.4	23
ZZ37703		0.17	0.002	0.19	1.16	16.5	<0.2	<10	460	0.89	0.28	0.76	0.28	16.95	11.2	21
ZZ37704		0.10	<0.001	0.32	0.80	12.1	<0.2	10	530	0.58	0.18	1.73	1.17	11.70	8.8	16
ZZ37705		0.25	0.003	0.36	1.36	19.9	<0.2	<10	600	0.85	0.21	1.48	0.78	20.2	14.6	24
ZZ37706		0.24	0.003	0.43	1.33	28.5	<0.2	<10	410	0.96	0.28	0.93	0.74	22.4	13.8	31
ZZ37707		0.23	0.001	0.10	1.71	27.6	<0.2	<10	200	0.92	0.28	0.20	0.32	35.0	18.3	34
ZZ37708		0.15	<0.001	0.19	1.17	12.7	<0.2	<10	290	0.73	0.21	2.38	0.59	33.4	13.1	23
ZZ37709		0.10	<0.001	0.19	0.79	9.8	<0.2	<10	250	0.65	0.19	2.22	0.41	26.2	12.7	14
ZZ37710		0.12	0.001	0.19	1.02	10.4	<0.2	<10	260	0.72	0.19	1.56	0.37	33.3	11.5	17
ZZ37711		0.20	0.004	0.26	0.48	8.4	<0.2	<10	280	0.61	0.18	1.35	0.89	20.7	9.9	10
ZZ37712		0.15	0.002	0.32	0.43	13.1	<0.2	<10	200	0.63	0.17	1.42	1.70	11.95	6.7	12
ZZ37713		0.14	0.004	0.38	0.52	12.8	<0.2	<10	230	0.51	0.23	0.94	0.93	8.96	7.0	14
ZZ37714		0.29	0.003	0.42	0.77	15.8	<0.2	<10	300	0.66	0.23	0.74	0.56	11.55	8.9	17
ZZ37715		0.22	0.003	0.81	0.60	12.1	<0.2	<10	680	0.59	0.23	0.37	0.58	9.53	4.0	15
ZZ37716		0.17	0.004	1.19	0.72	18.4	<0.2	<10	590	0.54	0.25	0.29	0.65	10.55	4.3	15
ZZ37717		0.23	0.005	0.73	0.57	15.9	<0.2	<10	580	0.58	0.22	0.63	0.48	8.97	6.5	14
ZZ37718		0.26	0.008	0.50	0.63	12.0	<0.2	<10	790	0.60	0.22	0.42	0.36	9.29	5.5	14
ZZ37719		0.27	0.006	0.23	0.30	11.5	<0.2	<10	180	0.37	0.15	0.43	0.32	5.40	3.9	7
ZZ37720		0.22	0.005	0.37	1.08	23.7	<0.2	<10	430	0.82	0.21	2.11	0.83	15.50	12.1	20
ZZ37721		0.15	0.003	0.38	1.16	32.0	<0.2	10	620	0.78	0.21	2.28	1.35	17.20	12.6	22
ZZ37722		0.18	0.005	0.39	1.13	24.0	<0.2	10	410	0.81	0.22	1.32	2.59	13.15	12.9	21
ZZ37723		0.18	0.003	0.35	1.25	19.7	<0.2	<10	360	0.82	0.24	1.43	1.37	17.35	10.5	23
ZZ37724		0.18	0.003	0.31	1.08	18.4	<0.2	<10	310	0.70	0.20	1.41	0.98	14.75	11.7	21

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**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37685		1.70	51.0	3.04	3.88	0.05	0.07	0.23	0.035	0.10	9.1	24.1	0.49	496	1.75	0.01
ZZ37686		0.90	28.9	2.99	4.50	0.05	0.05	0.17	0.028	0.07	14.1	21.3	0.48	500	1.53	0.01
ZZ37687		3.09	40.7	3.20	4.71	<0.05	0.09	0.09	0.029	0.12	5.0	34.6	0.48	759	1.14	0.01
ZZ37688		1.35	19.2	2.08	4.39	<0.05	<0.02	0.18	0.024	0.06	8.5	5.7	0.11	170	1.81	<0.01
ZZ37689		1.16	8.2	1.86	6.20	<0.05	<0.02	0.02	0.016	0.04	13.5	3.2	0.08	167	2.05	<0.01
ZZ37690		1.97	24.3	4.11	6.37	<0.05	<0.02	0.09	0.028	0.07	6.6	6.1	0.13	271	1.79	<0.01
ZZ37691		3.19	47.0	3.31	3.99	<0.05	0.04	0.25	0.040	0.12	9.6	18.9	0.40	517	2.58	0.01
ZZ37692		2.01	35.4	2.90	3.70	<0.05	0.08	0.19	0.032	0.14	7.3	13.8	0.39	335	1.85	0.01
ZZ37693		1.51	46.6	3.04	2.91	0.05	0.07	0.14	0.036	0.09	7.4	15.9	0.42	397	2.96	0.01
ZZ37694		1.19	36.1	2.99	2.96	<0.05	0.06	0.17	0.032	0.09	7.6	16.6	0.65	477	1.96	0.01
ZZ37695		1.07	38.6	2.89	3.16	<0.05	0.06	0.30	0.032	0.11	8.4	14.4	0.37	448	1.65	0.01
ZZ37696		0.85	32.8	3.07	2.87	<0.05	0.07	0.29	0.034	0.08	7.2	13.0	0.33	309	1.93	0.01
ZZ37697		0.80	36.1	3.40	3.66	<0.05	0.06	0.35	0.037	0.09	9.0	18.0	0.42	426	1.62	<0.01
ZZ37698		0.72	37.7	3.03	4.07	<0.05	0.07	0.30	0.037	0.07	9.1	20.5	0.85	780	1.25	0.01
ZZ37699		0.79	40.3	3.61	3.66	0.05	0.07	0.48	0.038	0.09	9.5	17.2	0.76	761	1.54	<0.01
ZZ37700		1.15	36.8	3.69	5.67	<0.05	0.04	0.29	0.041	0.09	12.5	28.9	0.48	1090	1.58	0.01
ZZ37701		0.79	49.2	3.53	4.13	<0.05	0.07	0.68	0.034	0.08	11.0	20.9	0.57	1160	1.67	0.01
ZZ37702		0.77	47.6	3.65	3.94	0.05	0.07	0.55	0.035	0.08	10.1	18.3	0.80	573	2.05	<0.01
ZZ37703		0.69	29.0	3.21	3.60	<0.05	0.04	0.84	0.038	0.07	7.9	14.5	0.33	460	1.48	<0.01
ZZ37704		0.91	30.7	2.16	2.44	<0.05	0.06	0.17	0.023	0.05	5.6	10.9	0.33	639	2.19	0.01
ZZ37705		0.84	51.5	2.85	4.22	0.06	0.08	0.32	0.037	0.08	10.6	20.4	0.48	1110	2.03	0.01
ZZ37706		1.04	49.4	3.81	3.98	0.06	0.08	0.29	0.034	0.10	11.5	19.4	0.52	569	3.70	<0.01
ZZ37707		0.89	34.6	4.32	4.90	<0.05	0.04	0.15	0.038	0.07	12.9	24.2	0.48	832	2.48	<0.01
ZZ37708		0.78	29.3	2.99	3.95	<0.05	0.04	0.21	0.027	0.07	15.9	18.1	0.41	796	1.59	0.01
ZZ37709		0.73	25.7	2.84	2.64	<0.05	0.06	0.14	0.030	0.10	10.8	9.9	0.28	369	1.60	0.01
ZZ37710		0.70	27.3	3.15	3.28	0.05	0.05	0.10	0.035	0.10	14.1	14.6	0.38	284	2.13	0.01
ZZ37711		0.60	36.2	2.61	1.62	<0.05	0.04	0.16	0.033	0.07	9.3	3.2	0.10	312	10.65	<0.01
ZZ37712		0.71	35.6	1.94	1.65	<0.05	0.05	0.19	0.033	0.04	5.7	3.7	0.15	433	12.85	<0.01
ZZ37713		0.81	32.0	1.82	1.90	<0.05	0.05	0.24	0.030	0.06	4.2	7.1	0.18	379	8.11	<0.01
ZZ37714		0.90	36.5	2.20	2.51	<0.05	0.05	0.19	0.031	0.06	5.4	10.4	0.22	373	5.38	<0.01
ZZ37715		0.84	31.0	1.51	2.04	<0.05	0.05	0.21	0.029	0.05	4.8	6.0	0.12	59	5.54	<0.01
ZZ37716		1.04	45.8	2.49	2.49	<0.05	<0.02	0.21	0.048	0.11	5.0	5.9	0.10	125	11.65	0.03
ZZ37717		0.78	35.9	1.95	1.93	<0.05	0.04	0.29	0.029	0.06	4.3	5.3	0.15	211	9.37	<0.01
ZZ37718		0.68	28.9	1.85	2.03	<0.05	0.03	0.17	0.029	0.06	4.4	6.3	0.13	218	7.06	<0.01
ZZ37719		0.90	20.1	1.17	1.07	<0.05	0.04	0.15	0.019	0.04	2.6	3.6	0.09	104	7.07	<0.01
ZZ37720		1.14	47.4	3.02	3.31	0.05	0.06	0.21	0.028	0.09	7.3	17.3	0.59	478	4.40	0.01
ZZ37721		0.93	40.6	3.00	3.69	<0.05	0.07	0.27	0.033	0.09	8.5	17.5	0.65	1020	6.38	0.01
ZZ37722		1.07	47.4	3.11	3.66	<0.05	0.07	0.24	0.031	0.09	6.1	19.3	0.42	252	14.15	0.01
ZZ37723		0.68	44.8	2.82	3.85	<0.05	0.07	0.22	0.031	0.09	7.7	23.4	0.50	171	2.46	0.01
ZZ37724		0.71	35.4	2.81	3.29	<0.05	0.05	0.30	0.031	0.08	7.0	18.3	0.42	698	2.17	<0.01



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37685		0.40	32.6	760	18.9	12.7	<0.001	0.10	0.88	5.0	2.0	0.5	86.0	<0.01	0.06	2.0
ZZ37686		0.76	29.9	780	16.1	8.3	<0.001	0.03	0.78	4.7	0.9	0.5	33.7	<0.01	0.03	2.5
ZZ37687		0.45	28.5	540	19.8	12.1	<0.001	0.04	0.55	5.8	0.9	0.6	33.2	<0.01	0.03	3.3
ZZ37688		0.50	13.3	620	12.0	8.7	<0.001	0.03	0.58	3.1	0.6	0.6	13.0	<0.01	0.03	1.4
ZZ37689		0.93	6.8	190	10.1	9.7	<0.001	<0.01	0.63	1.5	0.3	0.9	6.3	<0.01	0.02	2.8
ZZ37690		0.91	16.2	430	23.8	13.3	<0.001	0.01	0.82	2.7	0.6	0.8	6.0	<0.01	0.08	2.3
ZZ37691		0.37	34.0	870	25.2	12.5	0.002	0.06	1.15	5.0	1.6	0.5	42.0	<0.01	0.13	2.5
ZZ37692		0.30	27.4	750	16.9	16.9	0.001	0.07	0.77	4.3	1.6	0.5	39.5	<0.01	0.08	1.6
ZZ37693		0.32	32.5	720	18.4	9.1	0.003	0.08	1.34	4.7	2.0	0.4	45.8	<0.01	0.04	2.3
ZZ37694		0.31	30.5	750	14.8	10.2	0.002	0.08	0.91	4.3	1.7	0.4	47.6	<0.01	0.03	2.1
ZZ37695		0.41	32.2	780	19.0	10.6	0.004	0.08	0.95	4.4	2.1	0.4	49.2	<0.01	0.04	1.9
ZZ37696		0.34	28.5	690	20.5	8.0	0.005	0.08	0.80	4.3	1.5	0.4	38.3	<0.01	0.05	2.1
ZZ37697		0.44	34.4	780	20.7	8.8	0.004	0.07	0.69	5.2	1.5	0.4	37.7	<0.01	0.05	2.4
ZZ37698		0.59	31.8	780	20.0	7.0	0.005	0.08	0.76	4.1	2.0	0.4	57.1	<0.01	0.04	1.7
ZZ37699		0.36	32.9	760	31.1	7.2	<0.001	0.03	0.69	5.6	1.1	0.4	62.0	<0.01	0.03	3.2
ZZ37700		0.81	31.9	510	30.4	10.5	<0.001	0.02	0.63	5.0	1.1	0.6	37.3	<0.01	0.03	3.2
ZZ37701		0.45	39.7	860	20.6	7.0	0.001	0.04	0.72	5.9	1.5	0.4	38.1	<0.01	0.05	3.1
ZZ37702		0.44	35.2	720	24.2	6.8	<0.001	0.03	0.86	6.4	1.0	0.4	34.3	<0.01	0.06	3.1
ZZ37703		0.47	24.8	440	20.1	7.4	0.001	0.03	0.52	4.3	0.9	0.4	28.0	<0.01	0.03	2.1
ZZ37704		0.27	31.3	900	12.2	6.9	0.007	0.15	0.86	2.7	1.9	0.3	76.2	<0.01	0.03	1.0
ZZ37705		0.50	38.3	760	19.0	8.7	0.004	0.11	1.01	5.6	2.0	0.5	60.1	<0.01	0.06	1.8
ZZ37706		0.35	46.8	870	22.3	7.5	0.001	0.03	1.39	6.5	1.5	0.4	48.9	<0.01	0.09	3.9
ZZ37707		0.41	38.5	670	22.9	9.1	<0.001	0.02	0.76	4.6	0.7	0.5	20.5	<0.01	0.04	3.8
ZZ37708		0.53	29.8	730	15.8	7.7	0.001	0.10	0.56	4.0	1.0	0.4	88.1	<0.01	0.04	1.4
ZZ37709		0.41	27.8	1000	16.1	7.8	<0.001	0.09	0.66	4.0	0.8	0.4	68.3	<0.01	0.01	2.1
ZZ37710		0.46	26.1	1270	17.5	8.1	<0.001	0.07	0.68	4.7	1.2	0.3	48.3	<0.01	0.05	2.7
ZZ37711		0.22	28.0	910	14.6	5.0	0.002	0.06	1.32	5.1	1.4	0.5	54.5	<0.01	0.06	1.5
ZZ37712		0.18	34.5	710	13.4	5.1	0.006	0.08	2.15	3.7	1.8	0.5	67.6	<0.01	0.07	1.0
ZZ37713		0.15	30.7	470	15.6	5.3	0.005	0.05	1.53	3.7	1.8	0.5	47.4	<0.01	0.09	1.3
ZZ37714		0.20	30.2	560	16.0	6.1	0.006	0.05	1.35	4.5	1.9	0.5	47.1	<0.01	0.08	1.8
ZZ37715		0.17	27.9	570	15.8	6.7	0.003	0.05	1.70	3.9	3.0	0.5	35.9	<0.01	0.10	1.7
ZZ37716		0.29	27.9	990	16.5	8.7	0.003	0.26	2.16	3.1	3.4	0.5	107.5	<0.01	0.09	1.2
ZZ37717		0.17	31.4	560	15.6	6.2	0.006	0.06	2.34	3.9	3.5	0.4	55.5	<0.01	0.06	1.4
ZZ37718		0.15	25.0	470	14.8	6.7	0.005	0.05	1.33	3.2	1.7	0.4	33.6	<0.01	0.07	1.6
ZZ37719		0.07	18.6	380	11.3	4.4	0.007	0.05	0.98	2.2	2.9	0.4	42.0	<0.01	0.07	1.1
ZZ37720		0.24	38.8	760	16.2	7.2	0.006	0.08	0.95	4.7	2.6	0.3	66.8	<0.01	0.05	2.1
ZZ37721		0.30	47.6	940	16.9	9.1	0.001	0.08	0.86	4.6	2.0	0.3	68.0	<0.01	0.05	1.5
ZZ37722		0.32	70.2	730	15.4	11.1	0.020	0.30	1.01	5.0	3.4	0.4	59.9	<0.01	0.05	2.1
ZZ37723		0.39	37.7	750	18.8	7.0	0.007	0.11	0.89	4.6	2.4	0.4	62.0	<0.01	0.07	2.5
ZZ37724		0.32	37.2	770	15.3	6.9	0.002	0.07	0.82	3.5	2.3	0.3	51.3	<0.01	0.05	1.5





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**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37685		0.006	0.14	3.72	38	0.07	17.80	140	1.8
ZZ37686		0.018	0.11	1.78	47	0.16	11.50	100	1.2
ZZ37687		0.005	0.09	1.98	28	0.12	10.40	82	2.3
ZZ37688		0.007	0.13	0.79	50	0.12	5.36	62	<0.5
ZZ37689		0.019	0.10	0.43	66	0.22	1.84	36	<0.5
ZZ37690		0.009	0.13	0.49	55	0.11	2.38	85	0.6
ZZ37691		0.006	0.22	1.41	40	0.06	11.55	140	1.5
ZZ37692		<0.005	0.15	2.07	37	0.07	9.09	128	1.9
ZZ37693		0.006	0.11	1.34	29	0.06	9.82	152	2.0
ZZ37694		0.006	0.10	1.29	30	0.05	9.35	136	1.7
ZZ37695		0.006	0.14	2.74	35	0.06	10.85	142	1.7
ZZ37696		0.005	0.13	1.87	35	0.06	9.39	129	2.0
ZZ37697		0.006	0.14	1.55	42	0.06	10.30	150	1.9
ZZ37698		0.009	0.14	1.74	39	0.12	9.88	113	1.8
ZZ37699		0.005	0.17	1.05	36	0.09	12.20	133	2.0
ZZ37700		0.012	0.17	0.91	53	0.16	9.98	124	1.2
ZZ37701		0.009	0.18	1.29	44	0.10	13.40	143	1.9
ZZ37702		0.007	0.19	1.01	42	0.07	15.45	140	2.1
ZZ37703		0.006	0.16	1.32	38	0.07	8.22	103	1.1
ZZ37704		0.005	0.25	2.61	45	<0.05	9.24	172	1.8
ZZ37705		0.006	0.20	2.53	49	0.12	15.15	119	2.4
ZZ37706		0.006	0.32	1.18	61	0.08	18.10	167	3.1
ZZ37707		0.006	0.19	0.74	58	0.07	6.77	136	1.5
ZZ37708		0.009	0.12	1.05	41	0.08	11.90	104	1.1
ZZ37709		0.008	0.13	0.61	26	0.06	7.82	105	1.8
ZZ37710		0.007	0.14	0.78	36	0.09	9.95	118	1.7
ZZ37711		<0.005	0.51	1.20	78	0.10	11.30	114	1.7
ZZ37712		<0.005	0.62	1.90	111	0.13	10.55	150	2.0
ZZ37713		<0.005	0.57	1.04	64	0.08	8.43	111	2.0
ZZ37714		<0.005	0.44	1.07	53	0.06	9.81	98	1.8
ZZ37715		<0.005	0.52	1.48	55	0.07	11.00	75	1.9
ZZ37716		0.005	0.71	1.92	57	0.07	6.37	76	<0.5
ZZ37717		<0.005	0.55	1.51	65	0.08	9.79	70	1.4
ZZ37718		<0.005	0.45	1.10	51	0.06	8.40	82	1.0
ZZ37719		<0.005	0.63	0.91	39	0.06	6.11	66	1.8
ZZ37720		<0.005	0.30	1.65	46	0.05	12.40	134	2.3
ZZ37721		0.005	0.40	2.14	47	0.06	13.25	188	2.2
ZZ37722		<0.005	0.71	5.17	43	<0.05	11.85	201	2.5
ZZ37723		0.005	0.21	2.16	60	0.07	11.55	157	2.4
ZZ37724		0.005	0.18	1.72	49	0.07	10.20	144	1.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37725		0.15	0.006	0.33	1.06	16.1	<0.2	10	360	0.67	0.20	2.01	0.99	14.20	9.8	20
ZZ37726		0.09	0.003	0.42	1.07	16.9	<0.2	10	410	0.79	0.21	2.47	1.19	13.95	9.4	21
ZZ37727		0.17	0.001	0.28	1.38	15.2	<0.2	<10	400	0.86	0.23	1.69	0.78	15.80	12.7	24
ZZ37728		0.14	0.006	0.38	1.42	22.3	<0.2	<10	340	0.88	0.24	1.50	0.99	15.25	15.2	25
ZZ37729		0.15	0.004	0.34	1.04	16.3	<0.2	<10	440	0.61	0.18	1.88	1.12	15.90	9.8	20
ZZ37730		0.21	0.002	0.32	1.39	24.1	<0.2	<10	300	0.79	0.26	1.26	0.76	24.5	13.3	26
ZZ37731		0.26	0.001	0.06	0.42	12.4	<0.2	<10	150	0.65	0.30	0.03	0.09	5.45	14.2	9
ZZ37732		0.19	0.011	1.09	0.93	27.9	<0.2	10	450	0.90	0.29	0.68	0.86	12.20	8.1	24
ZZ37733		0.24	0.003	0.96	0.78	26.9	<0.2	<10	1000	0.97	0.24	0.54	2.11	11.95	7.8	27
ZZ37734		0.32	0.004	1.28	0.99	30.4	<0.2	<10	420	1.18	0.27	0.70	2.76	16.15	11.2	39
ZZ37735		0.22	0.002	1.36	1.23	38.7	<0.2	<10	380	1.29	0.28	1.10	4.53	15.95	12.5	42
ZZ37736		0.22	0.003	0.43	0.80	22.5	<0.2	<10	330	1.06	0.28	0.64	1.02	11.90	13.6	22
ZZ37737		0.23	0.003	0.37	0.76	18.7	<0.2	<10	340	1.15	0.31	0.62	0.80	9.35	13.9	19
ZZ37738		0.26	0.002	0.30	0.92	20.2	<0.2	<10	350	1.10	0.29	0.60	1.37	16.15	13.1	21
ZZ37739		0.30	0.009	2.71	0.68	57.0	<0.2	<10	290	1.32	0.27	0.90	7.46	9.16	8.6	67
ZZ37740		0.21	0.002	0.44	1.15	31.2	<0.2	<10	440	0.97	0.27	1.13	8.11	21.7	14.9	27
ZZ37741		0.21	0.004	0.20	0.65	13.7	<0.2	10	680	0.74	0.15	4.02	1.52	15.40	5.7	14
ZZ37742		0.24	0.003	0.27	1.16	19.9	<0.2	<10	700	0.96	0.27	1.99	1.20	17.70	10.8	21
ZZ37743		0.25	0.003	0.45	1.09	38.6	<0.2	<10	500	1.03	0.28	2.55	1.56	17.40	14.9	21
ZZ37744		0.24	0.001	0.05	0.83	11.8	<0.2	<10	180	0.68	0.28	0.08	0.13	13.55	9.4	16
ZZ37745		0.17	<0.001	0.12	0.97	18.5	<0.2	<10	70	0.19	0.25	0.02	0.17	12.15	4.5	15
ZZ37746		0.20	0.001	0.02	0.90	11.6	<0.2	<10	90	0.13	0.34	0.08	0.25	28.7	2.7	15
ZZ37747		0.22	0.003	0.23	1.55	18.5	<0.2	<10	570	1.04	0.28	1.05	1.00	24.9	12.5	28
ZZ37748		0.14	0.002	0.21	1.54	17.9	<0.2	<10	700	0.98	0.29	1.73	1.42	15.85	11.5	27
ZZ37749		0.26	0.003	0.23	1.12	21.4	<0.2	<10	520	0.90	0.24	1.61	0.84	17.75	12.8	23
ZZ37750		0.23	0.002	0.85	0.59	37.8	<0.2	10	270	0.92	0.28	1.45	3.01	11.75	11.7	15
ZZ37751		0.22	0.003	0.20	1.23	16.0	<0.2	<10	350	0.88	0.28	1.25	0.62	15.70	11.6	23
ZZ37752		0.13	0.002	0.21	1.15	21.6	<0.2	<10	560	0.78	0.27	1.49	0.88	18.00	10.7	22
ZZ37753		0.23	0.003	0.17	1.09	11.5	<0.2	<10	990	0.82	0.22	3.92	2.07	17.15	8.4	19
ZZ37754		0.16	0.002	0.23	1.24	14.9	<0.2	<10	500	0.96	0.29	1.57	0.67	24.6	12.3	25
ZZ37755		0.25	0.003	0.19	1.32	20.9	<0.2	<10	440	1.25	0.34	0.51	0.31	22.8	14.7	25
ZZ37756		0.16	0.003	0.22	1.14	13.5	<0.2	<10	310	1.02	0.30	1.43	0.85	13.20	12.4	21
ZZ37757		0.18	0.001	0.12	1.21	16.8	<0.2	<10	170	0.69	0.23	0.06	0.29	24.9	8.3	16
ZZ37758		0.18	0.002	0.23	1.36	18.5	<0.2	<10	660	1.00	0.31	1.69	0.63	13.60	9.0	24
ZZ37759		0.15	0.005	0.24	1.23	13.7	<0.2	<10	660	0.75	0.26	2.26	0.94	18.90	9.7	23
ZZ37760		0.19	0.002	0.24	0.91	16.6	<0.2	<10	500	0.86	0.22	2.26	0.93	19.30	10.4	17
ZZ37761		0.19	0.002	0.12	1.42	23.5	<0.2	<10	430	0.71	0.28	0.30	1.38	16.05	12.5	26
ZZ37762		0.17	0.001	0.26	0.96	22.0	<0.2	<10	870	0.78	0.23	2.21	0.72	15.55	13.7	19
ZZ37763		0.21	0.001	0.15	1.56	15.2	<0.2	<10	430	1.09	0.33	0.49	0.33	9.76	15.2	29
ZZ37764		0.17	0.002	0.07	1.55	17.7	<0.2	<10	320	1.05	0.30	0.45	0.34	9.97	13.8	28

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37725		0.71	38.2	2.58	3.26	<0.05	0.07	0.20	0.026	0.09	6.8	17.2	0.44	451	1.86	0.01
ZZ37726		0.69	39.2	2.52	3.11	<0.05	0.06	0.24	0.029	0.09	7.1	16.2	0.40	553	1.86	0.01
ZZ37727		0.87	38.5	2.92	4.17	<0.05	0.07	0.19	0.031	0.10	7.4	26.7	0.50	556	1.32	0.01
ZZ37728		1.31	40.0	3.11	4.29	<0.05	0.07	1.64	0.037	0.10	7.7	28.8	0.52	702	1.57	0.01
ZZ37729		0.84	32.5	2.13	3.23	<0.05	0.06	0.25	0.023	0.06	9.3	14.2	0.33	226	1.78	0.01
ZZ37730		0.65	46.0	3.45	4.14	0.05	0.05	0.21	0.029	0.07	16.6	22.7	0.61	640	1.82	<0.01
ZZ37731		1.18	34.3	3.56	1.43	<0.05	<0.02	0.03	0.041	0.08	2.2	4.5	0.06	211	2.16	<0.01
ZZ37732		0.54	41.7	2.21	2.94	<0.05	0.04	0.37	0.030	0.06	6.6	8.4	0.17	261	9.21	0.01
ZZ37733		0.74	53.1	2.38	2.79	<0.05	0.03	0.24	0.028	0.06	6.5	9.2	0.17	224	11.45	0.01
ZZ37734		0.80	70.6	3.02	3.24	0.05	0.03	0.49	0.032	0.08	8.6	10.6	0.22	490	11.25	0.01
ZZ37735		0.85	78.1	3.19	3.85	0.05	0.04	0.39	0.038	0.09	8.5	13.8	0.41	388	24.6	0.01
ZZ37736		0.73	43.1	3.27	2.49	<0.05	0.04	0.22	0.043	0.06	5.5	7.7	0.16	299	7.20	<0.01
ZZ37737		0.70	43.9	3.77	2.31	<0.05	0.05	0.16	0.046	0.09	4.4	7.9	0.14	364	4.19	0.01
ZZ37738		0.86	38.7	3.42	3.02	<0.05	0.05	0.17	0.040	0.08	7.7	13.3	0.25	429	2.43	<0.01
ZZ37739		0.51	142.5	2.86	2.47	0.06	0.06	0.59	0.025	0.06	5.6	7.6	0.19	199	22.8	<0.01
ZZ37740		0.92	48.1	3.29	3.68	0.06	0.07	0.55	0.033	0.08	10.3	17.1	0.57	498	2.77	0.01
ZZ37741		0.22	32.0	2.46	1.84	0.05	0.05	0.35	0.023	0.02	9.0	5.9	0.52	1220	1.11	0.01
ZZ37742		0.67	35.3	3.23	3.81	0.05	0.06	0.30	0.027	0.08	8.6	18.2	0.40	771	1.67	0.01
ZZ37743		1.61	48.0	3.52	3.58	<0.05	0.06	0.36	0.033	0.12	7.9	17.5	0.99	613	4.06	0.01
ZZ37744		1.20	23.6	2.87	3.12	<0.05	<0.02	0.06	0.033	0.07	6.0	15.6	0.17	188	1.73	0.01
ZZ37745		1.06	10.7	2.44	5.02	<0.05	<0.02	0.04	0.018	0.03	6.1	4.8	0.09	132	2.07	<0.01
ZZ37746		1.04	4.4	1.64	7.37	<0.05	<0.02	0.03	0.013	0.04	15.1	6.6	0.17	91	1.25	<0.01
ZZ37747		1.18	29.9	3.30	4.91	0.05	0.04	0.19	0.028	0.06	15.2	17.1	0.35	630	1.58	0.01
ZZ37748		1.23	29.0	3.28	4.73	<0.05	0.05	0.29	0.036	0.08	10.7	17.6	0.28	1140	1.33	0.01
ZZ37749		0.75	30.4	3.18	3.52	0.05	0.04	0.44	0.036	0.07	10.3	16.9	0.40	538	1.57	0.01
ZZ37750		2.79	68.9	3.65	1.96	<0.05	0.04	0.51	0.033	0.08	6.4	5.8	0.27	260	6.51	0.01
ZZ37751		1.07	32.5	3.44	3.84	<0.05	0.05	0.22	0.038	0.08	8.3	18.2	0.34	345	1.70	0.01
ZZ37752		0.55	29.3	3.23	3.72	<0.05	0.04	0.35	0.030	0.05	8.8	15.7	0.32	619	1.49	0.01
ZZ37753		0.51	30.8	2.39	3.17	0.05	0.03	0.35	0.022	0.04	14.5	10.8	0.27	859	0.71	0.01
ZZ37754		0.97	32.2	3.48	4.04	0.05	0.06	0.30	0.029	0.10	11.7	17.7	0.64	810	1.17	0.01
ZZ37755		0.93	46.3	4.03	4.43	<0.05	0.08	0.33	0.040	0.08	11.4	19.4	0.38	747	1.27	0.01
ZZ37756		1.36	33.6	3.18	3.63	<0.05	0.07	0.19	0.030	0.09	6.7	19.9	0.43	1090	1.36	0.01
ZZ37757		0.77	14.6	2.64	4.11	<0.05	0.04	0.07	0.027	0.04	11.2	14.3	0.13	285	1.37	<0.01
ZZ37758		0.96	30.7	3.31	4.39	<0.05	0.05	0.19	0.032	0.08	8.7	14.6	0.32	511	1.70	0.01
ZZ37759		1.07	45.7	2.59	3.85	<0.05	0.03	0.27	0.028	0.07	9.3	17.7	0.36	705	1.11	0.01
ZZ37760		0.64	38.5	2.80	2.74	<0.05	0.04	0.24	0.028	0.05	9.3	14.9	0.75	570	1.26	0.01
ZZ37761		0.97	24.4	3.93	4.79	<0.05	0.03	0.06	0.035	0.06	6.8	23.6	0.33	779	2.44	<0.01
ZZ37762		0.74	38.2	3.07	3.09	<0.05	0.04	0.17	0.025	0.06	6.9	17.8	0.91	673	1.92	0.01
ZZ37763		1.68	39.6	3.78	5.08	<0.05	0.04	0.06	0.046	0.13	3.2	33.2	0.46	292	2.26	0.02
ZZ37764		1.20	35.1	3.82	5.00	<0.05	0.05	0.06	0.042	0.09	4.2	30.7	0.47	297	1.79	0.03

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ37725	0.38	32.6	770	15.0	7.8	0.005	0.10	0.93	3.6	3.4	0.3	70.1	<0.01	0.04	1.3	
ZZ37726	0.36	33.5	790	16.3	7.4	0.003	0.11	0.90	3.7	3.4	0.3	70.9	<0.01	0.03	1.1	
ZZ37727	0.29	37.8	760	17.1	8.7	0.001	0.07	0.58	5.0	1.3	0.4	50.8	<0.01	0.06	2.0	
ZZ37728	0.28	50.6	810	18.7	10.0	0.002	0.07	0.65	5.6	1.8	0.4	40.0	<0.01	0.04	2.3	
ZZ37729	0.45	31.2	850	16.4	7.0	0.010	0.12	0.81	3.6	3.6	0.3	48.3	<0.01	0.04	1.4	
ZZ37730	0.45	35.2	890	21.2	6.3	0.001	0.04	0.77	4.6	1.4	0.3	31.9	<0.01	0.05	1.6	
ZZ37731	0.05	46.2	570	16.8	7.1	0.001	0.06	0.52	4.4	0.9	0.3	22.3	<0.01	0.06	1.9	
ZZ37732	0.29	50.6	550	19.0	4.7	0.003	0.05	2.35	4.9	2.3	0.8	68.8	<0.01	0.10	1.5	
ZZ37733	0.23	73.9	860	15.4	5.8	0.003	0.05	3.30	3.8	3.3	0.6	99.9	<0.01	0.06	2.5	
ZZ37734	0.27	94.7	1290	19.6	6.1	0.003	0.04	3.42	7.3	3.5	0.7	120.0	<0.01	0.10	3.3	
ZZ37735	0.22	115.0	1240	21.2	8.0	0.003	0.04	4.69	6.6	3.4	0.7	138.5	<0.01	0.11	3.0	
ZZ37736	0.21	57.1	480	19.9	6.6	0.003	0.03	1.80	6.1	2.1	0.5	66.0	<0.01	0.06	2.9	
ZZ37737	0.15	56.5	760	19.5	6.9	0.003	0.03	1.24	6.3	2.3	0.4	66.3	<0.01	0.08	2.8	
ZZ37738	0.39	43.4	890	20.7	8.0	0.001	0.04	1.12	6.3	1.7	0.5	39.7	<0.01	0.07	3.8	
ZZ37739	0.18	168.5	730	17.8	5.1	0.002	0.04	10.70	7.5	6.6	0.6	68.0	<0.01	0.18	2.4	
ZZ37740	0.63	88.4	920	20.3	9.3	0.002	0.04	1.22	6.2	3.9	0.4	38.7	<0.01	0.06	4.2	
ZZ37741	0.21	21.3	1050	13.6	2.4	0.009	0.25	0.86	2.9	8.7	0.2	75.5	<0.01	0.09	0.9	
ZZ37742	0.56	30.1	780	21.3	7.2	0.005	0.11	0.94	4.4	3.4	0.5	50.5	<0.01	0.04	1.9	
ZZ37743	0.32	48.0	860	27.0	8.5	0.001	0.04	1.83	5.7	1.8	0.5	59.0	<0.01	0.08	3.1	
ZZ37744	0.26	27.7	510	17.8	7.8	0.001	0.06	0.57	3.4	0.9	0.5	22.5	<0.01	0.06	2.6	
ZZ37745	0.72	14.2	280	13.1	7.7	<0.001	0.02	0.78	1.7	0.4	0.6	9.5	<0.01	0.05	1.9	
ZZ37746	1.47	6.7	170	12.4	8.7	<0.001	0.02	0.54	1.4	0.4	0.9	7.8	<0.01	0.03	2.8	
ZZ37747	0.59	39.0	1360	19.7	8.9	<0.001	0.03	0.77	4.5	0.9	0.6	38.8	<0.01	0.05	2.8	
ZZ37748	0.50	32.7	870	20.5	10.4	<0.001	0.06	0.65	4.7	1.0	0.6	31.5	<0.01	0.06	1.6	
ZZ37749	0.54	39.3	620	19.0	6.1	<0.001	0.05	0.95	4.6	1.1	0.4	31.9	<0.01	0.06	2.3	
ZZ37750	0.24	53.4	580	21.8	7.1	<0.001	0.07	5.57	4.9	2.2	0.6	34.4	<0.01	0.07	2.7	
ZZ37751	0.45	35.3	780	17.8	8.3	<0.001	0.05	0.74	5.2	1.0	0.5	29.2	<0.01	0.06	3.1	
ZZ37752	0.63	26.7	700	22.4	5.9	<0.001	0.06	0.84	3.5	1.4	0.5	27.1	<0.01	0.06	1.2	
ZZ37753	0.61	25.1	1240	15.4	5.9	<0.001	0.13	0.81	2.1	2.2	0.4	37.5	<0.01	0.05	0.6	
ZZ37754	0.91	34.6	910	20.4	10.3	0.001	0.05	0.89	5.3	1.3	0.5	31.3	<0.01	0.05	3.4	
ZZ37755	0.56	38.1	400	27.8	9.0	<0.001	0.02	0.65	7.1	0.7	0.6	20.3	<0.01	0.03	5.5	
ZZ37756	0.36	30.4	770	20.2	9.8	0.005	0.11	0.62	4.4	1.8	0.5	49.8	<0.01	0.05	2.5	
ZZ37757	0.67	13.7	230	18.5	8.9	<0.001	0.01	0.42	2.3	0.2	0.5	8.0	<0.01	0.02	3.5	
ZZ37758	0.48	24.1	720	19.2	10.1	<0.001	0.06	0.78	4.4	1.6	0.5	40.9	<0.01	0.06	1.8	
ZZ37759	0.68	25.7	680	16.8	9.5	<0.001	0.07	0.75	3.5	1.2	0.5	52.8	<0.01	0.03	1.1	
ZZ37760	0.65	27.7	1000	21.2	4.7	0.002	0.06	0.85	4.3	1.6	0.3	44.7	<0.01	0.03	1.6	
ZZ37761	0.43	25.2	650	20.6	11.4	<0.001	0.03	1.02	3.3	0.5	0.5	17.5	<0.01	0.03	2.5	
ZZ37762	0.43	32.7	850	20.0	5.0	0.001	0.07	0.89	4.3	0.9	0.3	52.7	<0.01	0.04	1.9	
ZZ37763	0.14	47.2	740	21.8	11.5	<0.001	0.16	0.55	6.0	0.8	0.6	59.2	<0.01	0.08	4.1	
ZZ37764	0.21	44.2	660	20.3	9.8	<0.001	0.10	0.57	5.5	0.5	0.6	45.7	<0.01	0.04	3.8	

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**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37725		0.006	0.21	1.79	49	0.05	10.35	150	1.8
ZZ37726		0.006	0.19	2.50	50	0.06	13.10	154	1.9
ZZ37727		<0.005	0.15	1.15	45	<0.05	12.60	131	2.1
ZZ37728		<0.005	0.38	1.19	42	0.05	17.80	172	2.1
ZZ37729		0.006	0.39	2.69	49	0.10	16.20	121	1.8
ZZ37730		0.011	0.16	0.93	50	0.14	23.0	121	1.2
ZZ37731		<0.005	0.12	0.56	23	<0.05	5.15	157	<0.5
ZZ37732		0.006	0.43	2.08	93	0.14	19.10	186	1.6
ZZ37733		0.005	0.40	2.94	139	0.12	17.30	326	1.3
ZZ37734		0.006	0.44	3.15	157	0.12	28.0	348	1.7
ZZ37735		<0.005	0.60	3.71	191	0.16	25.2	447	1.8
ZZ37736		<0.005	0.20	2.19	80	0.08	14.00	234	1.5
ZZ37737		<0.005	0.15	1.82	48	0.05	10.40	168	1.7
ZZ37738		0.006	0.14	1.58	51	0.08	12.65	198	1.9
ZZ37739		<0.005	0.20	3.89	307	0.25	35.7	815	2.7
ZZ37740		0.010	0.39	1.43	64	0.13	16.05	687	2.5
ZZ37741		<0.005	0.05	3.20	31	<0.05	16.80	92	1.6
ZZ37742		0.008	0.15	1.97	43	0.07	13.05	143	1.7
ZZ37743		0.006	0.38	1.33	62	0.07	12.60	204	2.0
ZZ37744		0.005	0.14	0.70	32	0.06	5.92	96	<0.5
ZZ37745		0.010	0.17	0.42	75	0.12	1.76	62	0.5
ZZ37746		0.045	0.14	0.54	73	0.25	2.52	33	<0.5
ZZ37747		0.012	0.16	1.48	61	0.16	20.8	154	1.0
ZZ37748		0.006	0.19	1.55	58	0.09	19.50	138	1.1
ZZ37749		0.008	0.15	1.36	46	0.09	18.20	134	1.4
ZZ37750		<0.005	0.37	1.26	63	<0.05	13.65	331	1.7
ZZ37751		0.006	0.14	1.14	41	0.15	13.75	117	1.3
ZZ37752		0.009	0.13	1.35	47	0.14	12.40	119	1.2
ZZ37753		0.011	0.07	2.05	39	0.10	23.2	76	1.0
ZZ37754		0.018	0.15	0.87	42	0.14	13.90	140	1.7
ZZ37755		0.007	0.17	0.85	35	0.06	16.15	122	2.6
ZZ37756		0.006	0.13	1.40	34	0.10	11.05	135	2.0
ZZ37757		0.009	0.11	0.73	43	0.11	4.67	69	1.3
ZZ37758		0.006	0.16	2.53	50	0.08	13.00	127	1.6
ZZ37759		0.013	0.16	2.84	43	0.12	10.50	97	1.2
ZZ37760		0.012	0.11	1.67	35	0.05	14.35	117	1.2
ZZ37761		0.006	0.17	1.02	63	0.13	5.29	137	0.9
ZZ37762		0.008	0.20	1.05	39	0.05	10.90	121	1.3
ZZ37763		<0.005	0.16	0.74	32	<0.05	7.22	130	1.6
ZZ37764		<0.005	0.17	0.73	37	<0.05	8.22	132	1.2



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37765		0.23	0.002	0.12	1.32	16.0	<0.2	<10	420	0.67	0.27	0.85	0.48	15.75	12.8	24
ZZ37766		0.17	0.004	0.19	1.12	11.0	<0.2	<10	590	0.77	0.20	2.15	1.04	15.40	11.1	20
ZZ37767		0.25	0.002	0.03	1.84	24.7	<0.2	<10	140	1.07	0.30	0.03	0.52	18.10	14.8	27
ZZ37768		0.23	0.003	0.20	1.49	25.9	<0.2	<10	450	1.25	0.25	0.37	0.54	24.0	14.6	28
ZZ37769		0.26	0.002	0.09	1.66	20.6	<0.2	<10	510	1.09	0.29	0.50	0.53	23.7	15.7	28
ZZ37770		0.17	0.004	0.20	1.43	20.2	<0.2	<10	490	1.08	0.25	1.04	0.51	17.10	12.1	25
ZZ37771		0.26	0.002	0.44	1.15	28.4	<0.2	<10	340	1.14	0.21	0.61	1.09	19.05	11.6	24
ZZ37772		0.23	0.004	0.33	1.38	35.0	<0.2	<10	500	1.24	0.28	1.24	1.52	19.65	15.6	27
ZZ37773		0.23	0.003	0.44	0.87	372	<0.2	<10	330	0.74	0.19	1.08	0.98	12.70	8.3	18
ZZ37774		0.26	0.004	0.08	1.54	26.3	<0.2	<10	140	0.94	0.25	0.13	0.32	16.60	11.2	26
ZZ37775		0.26	0.003	0.35	1.35	492	<0.2	<10	490	1.09	0.28	0.69	1.09	18.70	16.9	27
ZZ37776		0.18	0.002	0.18	1.29	24.0	<0.2	<10	680	0.75	0.20	0.94	0.90	14.55	9.1	22
ZZ37777		0.14	0.002	0.09	2.07	36.6	<0.2	<10	310	0.76	0.20	0.21	0.52	18.15	9.5	31
ZZ37778		0.22	0.002	0.07	2.00	32.9	<0.2	<10	180	1.27	0.22	0.07	0.65	18.50	16.6	32
ZZ37779		0.18	0.001	0.05	1.66	26.4	<0.2	<10	230	0.74	0.26	0.11	0.45	19.10	10.8	28
ZZ37780		0.25	0.002	0.31	1.46	25.8	<0.2	<10	490	1.14	0.27	0.69	1.17	21.3	17.8	29
ZZ37781		0.14	0.001	0.12	1.85	29.0	<0.2	<10	210	0.54	0.26	0.12	0.81	21.1	8.5	32
ZZ37782		0.21	<0.001	0.49	1.05	34.3	<0.2	<10	510	0.99	0.17	3.46	1.57	17.85	8.9	23
ZZ37783		0.15	0.009	0.26	0.78	3370	<0.2	20	1650	0.53	0.12	3.12	1.13	8.84	10.7	15
ZZ37784		0.13	0.008	1.69	0.76	54.0	<0.2	10	680	0.78	0.17	2.44	1.83	9.09	4.7	26
ZZ37785		0.11	0.006	1.14	0.67	195.5	<0.2	10	590	0.60	0.12	2.61	2.69	8.28	5.4	20
ZZ37786		0.17	0.005	0.60	0.93	58.0	<0.2	<10	440	0.60	0.14	2.77	0.73	12.60	6.1	20
ZZ37787		0.11	0.003	0.23	2.26	54.1	<0.2	<10	280	1.03	0.22	1.18	1.25	21.4	11.3	39
ZZ37788		0.19	0.002	0.45	1.93	49.9	<0.2	<10	310	1.05	0.24	3.07	0.54	23.5	9.4	35
ZZ37789		0.19	0.004	0.47	1.49	62.8	<0.2	<10	330	0.90	0.19	2.67	1.20	22.5	9.2	28

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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37765		0.77	22.4	3.29	4.46	<0.05	0.04	0.09	0.035	0.06	6.6	20.5	0.45	414	1.72	0.01
ZZ37766		0.56	30.4	2.56	3.47	<0.05	0.05	0.13	0.028	0.05	7.2	17.0	0.37	460	1.28	0.01
ZZ37767		1.02	32.9	3.88	5.18	<0.05	0.08	0.07	0.039	0.07	7.8	28.0	0.38	316	2.19	<0.01
ZZ37768		0.79	38.1	4.01	3.83	0.05	0.05	0.19	0.040	0.07	11.6	19.2	0.45	657	2.06	0.01
ZZ37769		1.19	27.9	3.68	4.60	<0.05	0.04	0.09	0.035	0.08	9.0	22.6	0.43	636	2.30	0.01
ZZ37770		0.81	30.1	3.52	4.15	<0.05	0.06	0.14	0.036	0.09	7.7	19.4	0.37	621	2.67	0.01
ZZ37771		0.70	43.0	3.57	3.32	0.05	0.06	0.27	0.035	0.07	10.5	15.7	0.37	525	4.04	0.01
ZZ37772		0.97	45.4	3.33	4.07	0.05	0.09	0.33	0.039	0.13	9.3	23.2	0.66	255	3.25	0.01
ZZ37773		2.70	37.6	2.09	2.48	<0.05	0.06	0.23	0.030	0.07	5.8	14.3	0.35	232	4.14	0.01
ZZ37774		0.79	32.8	3.70	4.32	<0.05	0.02	0.48	0.033	0.07	7.1	20.1	0.37	321	2.12	0.01
ZZ37775		1.30	35.5	4.67	3.98	0.05	0.07	0.36	0.038	0.09	8.4	18.0	0.41	490	4.95	0.01
ZZ37776		0.59	28.5	3.15	3.93	<0.05	0.04	0.30	0.027	0.06	7.9	14.7	0.31	499	2.55	0.01
ZZ37777		1.11	19.9	3.99	6.55	<0.05	0.05	0.04	0.036	0.05	8.3	27.6	0.38	246	2.48	0.01
ZZ37778		0.89	42.1	4.09	4.63	<0.05	0.06	0.15	0.043	0.06	8.0	22.7	0.39	376	3.32	0.01
ZZ37779		1.03	24.3	3.73	5.12	<0.05	0.02	0.06	0.031	0.06	8.8	17.8	0.33	462	2.89	0.01
ZZ37780		1.04	45.9	4.05	4.44	<0.05	0.09	0.29	0.041	0.11	9.3	20.5	0.51	609	2.73	0.01
ZZ37781		0.99	12.9	3.89	6.53	<0.05	0.03	0.13	0.033	0.05	10.0	20.8	0.27	544	2.37	0.01
ZZ37782		0.75	30.9	3.29	2.77	0.05	0.05	0.28	0.029	0.07	12.1	13.9	1.42	762	2.36	0.01
ZZ37783		0.49	22.0	5.27	2.38	<0.05	0.07	0.27	0.022	0.05	4.8	11.2	0.41	14650	5.49	0.01
ZZ37784		0.92	40.0	1.47	2.09	<0.05	0.07	0.93	0.026	0.06	4.8	6.3	0.22	125	1.56	0.01
ZZ37785		0.71	31.6	2.32	2.00	0.05	0.05	0.58	0.023	0.05	4.5	6.2	0.20	169	2.65	0.01
ZZ37786		0.78	21.1	1.93	2.83	<0.05	0.05	0.27	0.019	0.06	6.4	9.2	0.27	352	3.87	0.01
ZZ37787		1.77	12.9	3.37	5.97	<0.05	0.03	0.06	0.043	0.06	11.7	17.7	0.35	344	3.04	0.01
ZZ37788		1.17	17.9	3.07	5.71	<0.05	0.05	0.13	0.031	0.06	14.7	12.9	0.43	335	2.90	0.01
ZZ37789		0.75	27.1	2.60	3.94	<0.05	0.06	0.26	0.028	0.05	12.0	11.9	0.45	368	2.48	0.01

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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37765		0.38	27.8	690	18.1	8.2	<0.001	0.03	0.63	4.4	0.6	0.5	27.5	<0.01	0.06	2.6
ZZ37766		0.52	26.6	830	14.5	7.0	0.001	0.11	0.77	3.5	1.5	0.4	39.4	<0.01	0.03	1.4
ZZ37767		0.48	37.9	300	22.1	10.4	<0.001	0.01	0.89	4.3	1.2	0.6	9.2	<0.01	0.07	4.5
ZZ37768		0.40	41.1	740	23.8	6.4	<0.001	0.02	0.82	6.3	1.0	0.5	21.0	<0.01	0.04	4.8
ZZ37769		0.51	43.7	640	22.5	10.0	<0.001	0.04	0.78	4.1	0.7	0.6	27.1	<0.01	0.06	3.5
ZZ37770		0.41	34.6	650	26.9	8.5	<0.001	0.06	0.73	4.7	0.8	0.5	28.5	<0.01	0.04	2.1
ZZ37771		0.38	45.9	790	19.8	5.9	0.001	0.03	1.62	6.6	1.5	0.4	28.5	<0.01	0.08	3.6
ZZ37772		0.52	45.4	740	23.8	8.5	0.007	0.11	0.95	7.0	4.1	0.5	38.2	<0.01	0.07	4.2
ZZ37773		0.27	33.2	650	16.1	8.5	0.005	0.20	1.18	4.3	3.7	0.4	47.0	<0.01	0.07	2.1
ZZ37774		0.54	35.6	290	20.9	7.8	<0.001	0.02	0.79	4.2	0.8	0.5	8.6	<0.01	0.04	3.3
ZZ37775		0.44	42.3	830	21.5	8.4	0.002	0.04	1.11	5.7	2.1	0.5	29.2	<0.01	0.05	3.6
ZZ37776		0.52	26.1	420	16.8	7.5	<0.001	0.04	0.97	3.7	0.9	0.5	26.0	<0.01	0.04	1.7
ZZ37777		0.66	25.7	260	18.4	9.5	<0.001	0.02	0.83	4.2	<0.2	0.7	11.9	<0.01	0.06	2.7
ZZ37778		0.66	45.5	460	22.9	10.2	<0.001	0.02	1.13	4.7	1.3	0.5	9.3	<0.01	0.06	4.8
ZZ37779		0.79	29.8	410	20.5	11.7	<0.001	0.02	0.82	3.3	0.6	0.6	10.3	<0.01	0.04	3.2
ZZ37780		0.66	51.2	880	19.1	8.0	0.001	0.03	1.17	6.4	1.3	0.6	28.9	<0.01	0.07	4.4
ZZ37781		1.17	18.9	420	22.7	9.8	<0.001	0.02	0.80	2.9	<0.2	0.8	9.0	<0.01	0.06	3.1
ZZ37782		0.47	34.0	1150	22.6	6.3	0.001	0.06	1.06	5.9	1.5	0.4	50.7	<0.01	0.05	2.2
ZZ37783		0.22	24.2	1390	13.0	10.4	0.013	0.33	0.77	2.4	4.5	0.3	106.5	<0.01	0.04	0.8
ZZ37784		0.27	57.1	930	34.3	6.5	0.023	0.13	1.68	3.7	6.5	0.4	52.1	<0.01	0.06	0.7
ZZ37785		0.29	47.5	930	21.6	6.1	0.031	0.15	2.56	2.6	9.2	0.4	49.6	<0.01	0.09	0.5
ZZ37786		0.42	29.7	900	13.4	5.9	0.004	0.10	2.24	2.3	2.4	0.4	35.5	<0.01	0.06	0.7
ZZ37787		0.93	37.1	600	20.9	13.8	<0.001	0.05	1.13	3.9	0.8	0.7	18.2	<0.01	0.05	1.4
ZZ37788		0.87	34.5	580	18.3	8.7	<0.001	0.04	1.22	4.5	1.2	0.7	22.2	<0.01	0.06	1.9
ZZ37789		0.81	46.0	1160	14.8	6.4	0.002	0.08	1.55	3.3	1.5	0.4	30.0	<0.01	0.05	1.5

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37765		0.008	0.11	0.90	52	0.11	6.24	129	1.2
ZZ37766		0.009	0.10	1.88	39	0.10	9.29	126	1.5
ZZ37767		0.006	0.15	0.73	54	0.07	4.86	122	3.1
ZZ37768		0.008	0.17	0.95	50	0.08	14.80	142	1.6
ZZ37769		0.010	0.20	1.35	53	0.10	7.77	128	1.3
ZZ37770		0.007	0.15	1.08	49	0.08	10.50	139	1.5
ZZ37771		0.006	0.21	1.64	81	0.07	17.05	215	2.0
ZZ37772		0.008	0.23	1.51	53	0.08	13.70	192	3.1
ZZ37773		<0.005	0.59	2.61	51	0.13	10.50	140	2.2
ZZ37774		0.007	0.16	0.80	51	0.07	5.14	120	0.8
ZZ37775		0.007	0.23	2.00	67	0.09	13.20	179	2.0
ZZ37776		0.006	0.16	1.08	67	0.09	9.95	122	1.1
ZZ37777		0.007	0.24	0.53	88	0.14	3.93	110	1.8
ZZ37778		0.007	0.24	0.89	90	0.08	5.01	192	2.5
ZZ37779		0.011	0.19	0.72	88	0.14	4.09	138	1.0
ZZ37780		0.011	0.18	1.12	59	0.08	12.35	196	3.0
ZZ37781		0.017	0.21	0.61	93	0.21	3.00	123	1.3
ZZ37782		0.008	0.18	1.75	56	0.07	21.2	169	1.6
ZZ37783		0.006	0.22	2.07	45	<0.05	8.75	195	2.0
ZZ37784		0.005	0.61	3.02	68	0.08	17.95	316	1.9
ZZ37785		0.005	0.68	2.30	91	0.12	13.45	224	1.8
ZZ37786		0.009	0.55	2.78	105	0.18	8.98	95	1.3
ZZ37787		0.013	0.48	2.38	119	0.17	16.40	198	1.0
ZZ37788		0.020	0.37	2.16	107	0.19	16.30	138	1.1
ZZ37789		0.020	0.41	2.52	95	0.20	15.80	120	1.5

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194358**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194359**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 150 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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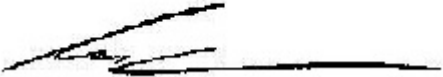
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40701		0.13	0.001	0.07	2.17	82.4	<0.2	<10	150	0.55	0.27	0.10	0.17	25.3	8.7	30
ZZ40702		0.16	0.002	0.02	1.82	19.3	<0.2	<10	160	0.44	0.24	0.36	0.10	27.4	9.3	29
ZZ40703		0.14	0.003	0.12	2.17	20.9	<0.2	<10	330	1.12	0.27	0.35	0.39	39.5	16.5	32
ZZ40704		0.15	0.007	0.09	2.42	14.8	<0.2	<10	150	1.13	0.27	0.57	0.21	40.7	25.3	36
ZZ40705		0.18	0.006	0.16	2.69	13.8	<0.2	<10	170	1.44	0.27	0.51	0.19	43.6	27.2	39
ZZ40706		0.10	0.002	0.10	1.79	163.5	<0.2	<10	230	0.84	0.26	1.30	0.43	20.3	16.3	27
ZZ40707		0.12	0.004	0.15	2.01	175.0	<0.2	<10	200	1.17	0.27	1.12	0.76	19.65	11.4	33
ZZ40708		0.15	0.002	0.06	2.41	21.4	<0.2	<10	230	1.13	0.29	0.12	0.20	28.5	18.7	37
ZZ40709		0.10	0.002	0.05	2.03	13.7	<0.2	<10	140	0.52	0.30	0.08	0.19	24.1	8.1	31
ZZ40710		0.14	<0.001	0.03	1.92	12.8	<0.2	<10	190	0.68	0.28	0.13	0.18	28.1	10.8	28
ZZ40711		0.16	0.002	0.05	2.30	20.8	<0.2	<10	270	1.15	0.33	0.30	0.29	35.9	22.9	36
ZZ40712		0.11	0.001	0.04	1.76	13.7	<0.2	<10	250	0.91	0.26	0.70	0.10	22.6	11.7	27
ZZ40713		0.16	0.004	0.20	1.52	10.0	<0.2	<10	300	0.96	0.21	1.21	1.00	27.6	13.4	27
ZZ40714		0.12	0.004	0.38	1.43	25.1	<0.2	<10	260	0.96	0.23	0.66	1.46	25.2	12.9	27
ZZ40715		0.18	0.004	0.52	0.96	55.8	<0.2	<10	220	1.04	0.29	0.76	0.96	31.1	26.9	17
ZZ40716		0.15	0.008	0.11	1.39	177.0	<0.2	<10	290	1.21	0.23	0.55	0.25	34.8	19.8	20
ZZ40717		0.12	0.006	2.22	0.95	109.5	<0.2	<10	310	1.07	0.19	0.31	13.50	23.2	11.3	55
ZZ40718		0.16	0.004	0.25	1.71	36.8	<0.2	<10	340	0.93	0.27	0.49	0.27	24.7	13.5	28
ZZ40719		0.21	0.005	0.38	1.53	39.7	<0.2	<10	340	0.79	0.22	0.74	0.31	21.9	13.1	33
ZZ40720		0.20	0.003	0.11	2.10	11.8	<0.2	<10	140	0.90	0.26	0.60	0.25	36.2	26.9	33
ZZ40721		0.22	0.003	0.17	1.25	33.1	<0.2	<10	250	0.81	0.25	0.49	0.33	22.0	15.5	22
ZZ40722		0.11	0.008	0.05	1.68	20.3	<0.2	<10	120	0.35	0.26	0.20	0.16	22.1	7.2	27
ZZ40723		0.14	0.001	0.03	1.37	19.5	<0.2	<10	110	0.36	0.28	0.03	0.23	19.45	7.3	27
ZZ40724		0.14	0.003	0.07	0.47	15.3	<0.2	<10	50	0.17	0.24	0.01	0.05	18.85	3.5	11
ZZ40725		0.12	0.001	0.02	1.15	9.2	<0.2	<10	120	0.44	0.31	0.08	0.18	24.7	9.7	21
ZZ40726		0.11	0.002	0.11	1.63	17.3	<0.2	<10	120	1.03	0.37	0.05	0.21	22.3	9.8	26
ZZ40727		0.11	0.003	0.16	0.68	19.7	<0.2	<10	100	0.24	0.33	0.02	0.08	14.35	3.5	16
ZZ40728		0.15	0.003	0.12	1.51	18.0	<0.2	<10	140	0.99	0.37	0.09	0.30	20.4	13.2	27
ZZ40729		0.16	0.001	0.68	1.38	19.5	<0.2	<10	200	0.82	0.25	0.09	2.12	20.4	12.5	25
ZZ40730		0.15	0.005	0.14	1.37	17.3	<0.2	<10	240	0.60	0.15	0.14	0.37	74.9	30.3	22
ZZ40731		0.14	0.002	0.15	1.22	15.9	<0.2	<10	290	0.99	0.16	0.25	0.72	99.7	34.2	26
ZZ40732		0.15	0.013	0.89	0.92	15.6	<0.2	<10	200	0.86	0.19	0.91	1.22	47.2	18.0	20
ZZ40733		0.15	0.005	0.57	0.83	14.8	<0.2	<10	140	0.73	0.22	1.21	1.08	28.2	12.1	15
ZZ40734		0.16	0.002	0.29	0.33	23.5	<0.2	<10	260	0.20	0.21	0.05	0.77	7.96	3.0	13
ZZ40735		0.16	0.004	0.56	1.46	23.4	<0.2	<10	1190	1.05	0.23	0.76	1.85	21.2	13.1	29
ZZ40736		0.13	0.003	0.63	1.72	35.5	<0.2	<10	2990	1.10	0.25	1.08	3.62	23.6	13.5	35
ZZ40737		0.14	0.002	0.48	1.60	17.5	<0.2	<10	1550	0.76	0.26	1.16	1.02	27.3	12.5	33
ZZ40738		0.16	0.003	1.14	1.26	15.6	<0.2	<10	2710	0.84	0.24	1.56	2.24	22.5	10.5	37
ZZ40739		0.11	0.004	1.22	0.49	16.3	<0.2	<10	3010	0.49	0.16	3.54	1.61	14.95	6.7	24
ZZ40740		0.11	0.002	0.72	1.34	23.5	<0.2	<10	490	0.84	0.25	2.54	2.09	17.65	14.1	36



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40701		2.44	18.2	4.08	8.07	<0.05	0.06	0.03	0.029	0.04	12.8	34.4	0.41	260	1.67	0.01
ZZ40702		1.98	10.3	3.04	6.32	<0.05	0.03	0.02	0.027	0.04	14.1	24.8	0.48	396	1.14	0.01
ZZ40703		1.84	26.1	3.70	6.07	<0.05	0.03	0.08	0.035	0.06	17.2	20.6	0.55	578	1.23	0.01
ZZ40704		1.48	108.5	5.22	7.27	0.08	0.16	0.16	0.040	0.14	18.5	45.1	1.27	856	0.57	0.01
ZZ40705		1.34	113.0	5.54	7.94	0.12	0.14	0.16	0.038	0.13	25.9	45.6	1.31	902	0.61	0.01
ZZ40706		2.14	35.6	3.88	5.33	<0.05	0.08	0.06	0.038	0.10	8.7	34.7	0.61	521	2.20	0.01
ZZ40707		2.62	70.0	3.92	5.92	<0.05	0.11	0.06	0.035	0.14	10.2	42.1	0.73	490	2.44	0.01
ZZ40708		2.10	31.1	4.84	6.08	<0.05	0.06	0.04	0.047	0.06	14.7	40.3	0.59	365	2.04	0.01
ZZ40709		2.02	13.6	3.67	7.55	<0.05	<0.02	0.03	0.034	0.06	12.6	32.7	0.47	364	1.56	0.01
ZZ40710		1.92	12.5	3.43	7.05	<0.05	0.03	0.03	0.032	0.05	13.8	26.3	0.36	460	1.66	0.01
ZZ40711		2.68	23.8	5.22	6.67	0.06	0.03	0.05	0.063	0.07	14.2	31.7	0.59	686	1.72	0.01
ZZ40712		2.03	21.3	3.66	5.41	<0.05	0.04	0.04	0.037	0.06	9.6	23.6	0.49	445	1.07	0.01
ZZ40713		1.42	37.4	3.06	4.45	0.05	0.06	0.10	0.030	0.11	12.9	24.7	0.68	1380	2.35	0.01
ZZ40714		3.15	40.2	3.20	4.43	0.05	0.04	0.11	0.031	0.09	12.5	16.8	0.50	440	4.35	0.01
ZZ40715		5.87	102.0	4.75	3.22	0.07	0.08	0.35	0.052	0.11	13.7	18.2	0.57	969	4.96	<0.01
ZZ40716		3.49	65.4	4.95	4.11	<0.05	0.04	0.25	0.049	0.08	13.8	22.5	0.39	595	2.77	<0.01
ZZ40717		3.35	179.5	2.43	3.53	0.09	0.03	0.34	0.039	0.09	16.7	10.1	0.21	231	41.3	<0.01
ZZ40718		2.09	37.1	3.70	5.95	<0.05	0.06	0.08	0.038	0.06	11.2	32.9	0.69	158	1.62	<0.01
ZZ40719		1.66	83.7	3.37	5.00	<0.05	0.08	0.29	0.045	0.08	10.7	28.0	0.82	343	1.95	<0.01
ZZ40720		1.44	95.1	4.79	7.13	0.07	0.12	0.07	0.042	0.11	17.5	40.7	1.22	829	0.69	<0.01
ZZ40721		1.57	43.4	3.83	3.80	0.07	0.10	0.27	0.032	0.05	10.2	37.3	0.62	595	1.20	<0.01
ZZ40722		2.17	14.6	3.59	7.21	<0.05	0.03	0.01	0.029	0.04	11.4	31.1	0.46	219	1.33	<0.01
ZZ40723		1.86	19.3	4.11	6.84	<0.05	<0.02	0.04	0.029	0.07	9.8	11.0	0.25	409	1.97	<0.01
ZZ40724		2.76	21.5	1.80	4.12	<0.05	<0.02	<0.01	0.015	0.06	8.8	1.1	0.03	49	6.29	<0.01
ZZ40725		2.64	12.3	3.27	6.76	<0.05	0.04	0.01	0.027	0.08	12.4	20.4	0.18	898	1.87	<0.01
ZZ40726		4.91	25.8	4.70	6.11	<0.05	0.04	0.01	0.034	0.08	10.9	24.4	0.33	295	1.72	0.01
ZZ40727		2.10	13.9	2.44	3.78	<0.05	<0.02	0.03	0.024	0.08	6.9	2.9	0.07	111	1.91	0.02
ZZ40728		5.35	23.2	3.55	5.92	<0.05	<0.02	0.01	0.036	0.09	9.7	23.0	0.30	525	1.98	0.01
ZZ40729		3.15	42.2	3.36	4.38	<0.05	0.02	0.08	0.039	0.08	9.5	18.9	0.37	394	7.16	<0.01
ZZ40730		1.62	39.0	5.53	5.79	0.09	0.02	0.06	0.051	0.11	35.3	16.5	0.27	1480	3.83	0.02
ZZ40731		2.57	59.5	6.59	3.77	0.13	0.03	0.07	0.053	0.11	47.8	15.0	0.26	1040	4.57	0.01
ZZ40732		1.31	81.7	3.92	2.82	0.05	0.09	0.20	0.051	0.10	27.4	15.6	0.26	702	7.47	0.01
ZZ40733		1.70	46.2	3.40	2.50	0.05	0.07	0.18	0.039	0.08	14.9	14.5	0.33	610	4.03	0.01
ZZ40734		1.11	23.8	1.57	2.71	<0.05	<0.02	0.02	0.021	0.08	4.3	1.8	0.03	70	13.60	<0.01
ZZ40735		1.07	40.0	3.32	4.34	<0.05	0.07	0.20	0.040	0.07	11.7	18.0	0.42	447	8.65	0.01
ZZ40736		1.32	32.8	3.42	5.07	0.06	0.06	0.23	0.041	0.07	14.4	19.2	0.44	467	9.53	<0.01
ZZ40737		1.10	21.4	3.09	4.95	<0.05	0.03	0.06	0.034	0.07	14.3	14.3	0.44	673	7.60	<0.01
ZZ40738		0.78	36.8	2.55	3.92	<0.05	0.06	0.16	0.037	0.06	14.9	9.8	0.27	476	7.78	<0.01
ZZ40739		1.02	30.0	1.97	1.58	<0.05	0.04	0.22	0.031	0.06	12.4	3.8	0.81	293	13.55	<0.01
ZZ40740		0.80	23.1	2.93	4.06	0.06	0.06	0.21	0.041	0.04	28.4	8.1	0.22	1070	38.9	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ40701	0.92	16.2	230	24.3	6.6	<0.001	0.02	0.58	3.5	0.2	0.9	8.9	<0.01	0.07	3.4	
ZZ40702	1.01	15.3	210	15.9	7.7	<0.001	0.02	0.39	3.0	0.2	0.7	20.1	<0.01	0.03	3.7	
ZZ40703	0.81	26.9	700	20.1	10.4	<0.001	0.03	0.62	4.1	0.8	0.6	24.8	<0.01	0.03	2.1	
ZZ40704	0.07	45.2	610	19.3	7.8	<0.001	0.03	0.41	11.5	0.8	0.4	39.9	<0.01	0.09	5.8	
ZZ40705	0.10	47.1	380	19.5	8.6	<0.001	0.02	0.41	15.9	1.3	0.4	30.4	<0.01	0.09	5.7	
ZZ40706	0.54	28.2	800	16.4	13.3	<0.001	0.06	0.50	4.8	1.2	0.5	58.4	<0.01	0.06	1.8	
ZZ40707	0.44	34.3	1110	15.4	17.9	<0.001	0.08	0.43	5.3	1.6	0.6	54.2	<0.01	0.06	1.6	
ZZ40708	1.21	40.0	430	21.1	11.2	<0.001	0.02	0.84	4.5	0.5	0.6	11.8	<0.01	0.07	4.6	
ZZ40709	1.33	19.6	420	15.3	11.7	<0.001	0.03	0.54	2.2	0.6	0.8	9.1	<0.01	0.04	0.7	
ZZ40710	1.45	18.0	320	16.7	10.4	<0.001	0.02	0.51	2.9	0.3	0.8	12.1	<0.01	0.06	3.5	
ZZ40711	1.31	34.1	590	23.6	12.1	<0.001	0.02	0.73	4.8	0.7	0.7	20.9	<0.01	0.07	4.0	
ZZ40712	0.69	24.4	300	16.3	11.2	<0.001	0.02	0.39	3.9	0.4	0.6	32.9	<0.01	0.06	2.8	
ZZ40713	0.48	27.6	690	16.3	9.0	0.006	0.10	0.61	6.4	3.2	0.4	48.5	<0.01	0.04	3.0	
ZZ40714	0.66	34.7	500	13.5	10.7	<0.001	0.03	1.87	6.4	1.4	0.5	29.6	<0.01	0.07	2.4	
ZZ40715	0.10	47.2	1030	33.5	8.8	0.001	0.03	1.89	12.1	1.8	0.4	40.9	<0.01	0.09	5.8	
ZZ40716	0.37	34.5	680	23.5	9.6	<0.001	0.01	1.00	7.3	1.2	0.6	34.8	<0.01	0.09	3.6	
ZZ40717	0.11	182.5	1710	15.3	9.9	0.005	0.03	15.05	7.8	6.8	0.6	32.5	<0.01	0.26	2.9	
ZZ40718	0.43	28.6	360	23.2	9.9	<0.001	0.02	0.72	5.7	1.7	0.5	30.8	<0.01	0.07	3.5	
ZZ40719	0.13	34.5	590	15.0	6.1	0.002	0.09	0.66	8.0	2.0	0.3	57.9	<0.01	0.11	3.1	
ZZ40720	0.13	42.3	660	19.1	6.1	<0.001	0.03	0.48	9.2	0.8	0.3	35.2	<0.01	0.11	4.2	
ZZ40721	0.10	33.4	790	21.9	4.3	0.001	0.04	0.71	5.1	0.7	0.3	39.7	<0.01	0.08	3.9	
ZZ40722	1.36	17.5	210	14.0	8.9	<0.001	0.01	0.51	2.9	0.2	0.7	12.7	<0.01	0.05	3.2	
ZZ40723	0.82	17.0	600	15.7	13.8	<0.001	0.04	0.86	1.4	0.5	0.7	6.8	<0.01	0.07	0.4	
ZZ40724	0.31	9.7	480	18.9	12.2	<0.001	0.03	1.20	0.5	0.2	0.7	5.3	<0.01	0.06	0.4	
ZZ40725	1.51	13.3	360	16.1	15.8	<0.001	0.01	0.83	2.2	<0.2	0.9	9.0	<0.01	0.05	4.0	
ZZ40726	1.25	22.8	570	50.5	14.7	<0.001	0.04	0.99	2.7	0.8	0.7	11.4	<0.01	0.09	3.3	
ZZ40727	0.41	10.2	650	59.6	11.4	<0.001	0.13	1.12	0.8	0.5	0.9	24.9	<0.01	0.09	0.4	
ZZ40728	0.70	20.6	760	43.4	14.5	<0.001	0.05	0.94	1.7	0.6	0.8	15.1	<0.01	0.19	0.7	
ZZ40729	0.48	39.4	710	18.1	10.7	0.002	0.02	4.31	3.1	2.3	0.6	9.9	<0.01	0.06	1.2	
ZZ40730	0.25	42.3	1760	19.6	8.3	<0.001	0.16	1.20	4.3	1.1	0.8	89.2	<0.01	0.06	1.6	
ZZ40731	0.35	77.8	2150	22.8	8.4	<0.001	0.08	1.13	7.4	1.6	0.7	43.6	<0.01	0.05	3.9	
ZZ40732	0.42	58.1	1700	17.1	8.2	0.002	0.11	2.50	7.4	2.1	0.5	82.4	<0.01	0.06	2.4	
ZZ40733	0.33	35.4	1520	19.2	9.3	<0.001	0.10	1.39	4.9	1.6	0.4	74.0	<0.01	0.06	1.5	
ZZ40734	0.15	17.8	990	14.9	10.8	0.003	0.10	2.65	1.0	1.5	0.6	37.4	<0.01	0.12	0.3	
ZZ40735	0.44	60.3	980	16.7	9.3	0.001	0.03	1.75	6.0	1.4	0.5	26.7	<0.01	0.07	2.3	
ZZ40736	0.63	69.6	1670	18.5	10.8	0.006	0.06	3.78	4.8	2.6	0.6	48.2	<0.01	0.10	1.8	
ZZ40737	0.72	37.6	1630	17.4	11.1	0.001	0.06	1.91	3.1	1.7	0.6	36.2	<0.01	0.09	1.1	
ZZ40738	0.60	57.1	1500	18.1	6.9	0.001	0.08	1.25	4.5	1.6	0.7	48.8	<0.01	0.08	1.2	
ZZ40739	0.16	54.4	2030	13.5	5.8	0.007	0.10	2.21	3.7	3.1	0.5	99.6	<0.01	0.11	0.8	
ZZ40740	0.41	93.7	1760	20.4	7.9	0.003	0.12	1.55	3.0	3.7	0.6	23.6	<0.01	0.33	0.5	

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 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40701		0.017	0.26	0.42	82	0.19	2.43	58	2.1
ZZ40702		0.029	0.20	0.56	67	0.23	2.87	64	1.0
ZZ40703		0.023	0.19	1.78	60	0.22	10.20	107	0.7
ZZ40704		<0.005	0.09	0.53	59	<0.05	15.55	96	5.9
ZZ40705		<0.005	0.09	0.91	64	<0.05	30.7	93	4.6
ZZ40706		0.012	0.16	3.48	45	0.12	5.98	115	2.0
ZZ40707		0.012	0.12	4.98	46	0.08	8.99	162	2.7
ZZ40708		0.023	0.17	0.79	58	0.25	4.71	81	2.4
ZZ40709		0.037	0.19	0.57	68	0.30	3.11	91	<0.5
ZZ40710		0.030	0.18	0.65	64	0.25	3.60	64	1.1
ZZ40711		0.029	0.19	1.16	61	0.28	6.64	92	1.3
ZZ40712		0.011	0.14	0.54	48	0.14	3.17	75	1.2
ZZ40713		0.011	0.13	1.99	50	0.11	12.55	139	2.2
ZZ40714		0.019	0.25	1.43	57	0.15	11.00	215	1.4
ZZ40715		<0.005	0.57	1.33	39	0.14	16.75	208	4.5
ZZ40716		<0.005	0.53	0.87	44	0.45	7.79	122	1.3
ZZ40717		<0.005	1.02	8.25	527	0.43	41.4	1080	2.0
ZZ40718		0.008	0.21	1.07	61	0.11	6.72	79	2.0
ZZ40719		<0.005	0.20	1.73	54	<0.05	11.05	104	3.1
ZZ40720		0.006	0.06	0.48	58	<0.05	10.60	92	4.0
ZZ40721		<0.005	0.08	1.13	29	<0.05	9.53	129	2.9
ZZ40722		0.022	0.16	0.43	63	0.21	2.19	54	1.2
ZZ40723		0.025	0.14	0.60	59	0.19	2.52	81	<0.5
ZZ40724		0.012	0.18	0.42	49	0.11	1.55	49	<0.5
ZZ40725		0.029	0.13	0.49	57	0.23	2.56	74	1.4
ZZ40726		0.021	0.16	0.80	49	0.17	3.94	91	1.3
ZZ40727		0.015	0.10	0.53	34	0.14	1.61	47	<0.5
ZZ40728		0.020	0.15	1.03	53	0.19	3.68	112	<0.5
ZZ40729		0.013	0.32	1.38	64	0.13	7.72	261	0.6
ZZ40730		0.007	0.30	0.65	59	0.05	9.82	121	<0.5
ZZ40731		0.009	0.27	0.87	52	0.08	18.75	163	0.9
ZZ40732		0.006	0.22	1.80	43	0.06	19.20	174	2.5
ZZ40733		0.006	0.14	1.65	32	0.06	16.10	162	2.1
ZZ40734		0.005	0.67	1.70	141	0.11	3.37	103	<0.5
ZZ40735		0.009	0.30	2.79	66	0.14	15.50	273	1.9
ZZ40736		0.012	0.40	4.23	196	0.16	24.8	319	2.0
ZZ40737		0.021	0.17	4.19	108	0.24	15.35	197	1.1
ZZ40738		0.012	0.14	3.20	96	0.22	28.5	204	1.7
ZZ40739		<0.005	0.28	3.96	82	0.11	28.7	214	1.2
ZZ40740		0.009	0.68	9.64	105	0.24	66.5	311	1.5



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40741		0.12	0.003	0.31	1.14	23.3	<0.2	<10	280	0.67	0.23	3.30	1.57	20.2	15.2	27
ZZ40742		0.14	0.002	0.18	1.34	11.4	<0.2	<10	500	0.79	0.23	2.45	2.71	18.25	7.8	37
ZZ40743		0.14	0.003	0.25	1.77	17.9	<0.2	<10	490	0.97	0.26	0.63	2.55	26.1	13.7	33
ZZ40744		0.09	0.001	0.24	1.62	16.4	<0.2	<10	400	1.03	0.23	2.29	10.80	26.2	12.3	30
ZZ40745		0.17	0.004	0.51	1.23	32.6	<0.2	<10	540	1.05	0.23	5.14	9.16	19.65	51.4	30
ZZ40746		0.18	0.004	0.68	1.41	37.3	<0.2	<10	550	1.13	0.29	2.73	8.22	20.9	27.8	37
ZZ40747		0.13	0.012	0.49	2.11	33	<0.2	<10	910	1.71	0.20	10.15	13.30	11.85	64.0	29
ZZ40748		0.15	0.001	0.08	1.05	12.8	<0.2	<10	690	0.76	0.29	0.74	0.30	7.76	9.5	16
ZZ40749		0.16	0.003	0.44	1.25	22.3	<0.2	10	580	0.84	0.40	1.15	1.24	16.50	16.3	76
ZZ40750		0.18	0.004	0.40	0.89	9.4	<0.2	<10	540	0.61	0.24	5.65	6.88	13.95	10.8	21
ZZ40751		0.16	0.002	0.62	0.86	16.2	<0.2	<10	800	0.54	0.33	3.15	3.27	13.50	11.6	24
ZZ40752		0.17	0.006	0.38	1.39	33.1	<0.2	<10	750	0.79	0.24	5.47	12.85	13.65	25.6	36
ZZ40753		0.20	0.001	0.52	1.53	43	<0.2	<10	790	0.85	0.21	10.75	18.95	15.85	24.0	29
ZZ40754		0.12	0.004	0.88	0.80	20.7	<0.2	<10	650	0.76	0.23	1.31	4.16	13.20	7.7	21
ZZ40755		0.11	0.002	0.22	0.72	31.8	<0.2	<10	560	0.58	0.39	2.07	4.33	8.43	29.6	87
ZZ40756		0.19	0.004	1.09	1.74	25.0	<0.2	<10	2160	1.26	0.24	2.26	12.50	16.85	32.8	31
ZZ40757		0.13	0.003	0.55	1.45	23.3	<0.2	<10	860	0.60	0.32	0.10	0.97	19.35	11.4	23
ZZ40758		0.09	<0.001	0.27	1.04	15.0	<0.2	<10	190	0.74	0.23	0.25	3.08	34.0	21.6	26
ZZ40759		0.15	0.003	0.07	1.23	18.1	<0.2	<10	130	0.63	0.30	0.08	0.25	20.2	15.0	24
ZZ40760		0.19	0.001	0.07	2.00	18.9	<0.2	<10	130	0.90	0.43	0.07	0.23	24.8	17.4	31
ZZ40761		0.17	0.001	0.03	1.52	10.1	<0.2	<10	80	0.47	0.47	0.02	0.07	16.70	7.3	24
ZZ40762		0.16	0.002	0.04	1.37	7.0	<0.2	<10	60	0.34	0.41	0.02	0.06	13.25	6.8	26
ZZ40763		0.14	0.003	0.03	1.42	10.7	<0.2	<10	40	0.51	0.51	0.01	0.07	13.35	9.7	26
ZZ40764		0.13	0.001	0.05	1.48	10.4	<0.2	<10	160	0.95	0.44	0.11	0.09	21.7	11.6	24
ZZ40765		0.17	0.002	0.05	2.32	32.3	<0.2	<10	190	2.07	0.84	0.05	0.03	19.50	36.2	33
ZZ40766		0.13	0.003	0.10	1.26	7.9	<0.2	<10	130	0.48	0.47	0.01	0.16	10.00	10.2	18
ZZ40767		0.18	0.002	0.03	1.48	13.4	<0.2	<10	70	0.60	0.43	0.01	0.12	17.30	15.6	22
ZZ40768		0.12	0.002	0.05	1.37	18.0	<0.2	<10	80	1.08	0.47	0.01	0.22	9.77	23.4	20
ZZ40769		0.17	0.001	0.06	1.23	15.6	<0.2	<10	130	1.49	0.43	0.01	0.16	12.85	16.6	25
ZZ40770		0.20	0.004	0.25	1.23	13.6	<0.2	<10	290	0.94	0.25	0.16	0.59	28.6	12.9	25
ZZ40771		0.18	0.009	1.59	0.51	15.6	<0.2	<10	510	0.69	0.20	1.10	6.35	4.86	9.5	12
ZZ40772		0.15	0.003	0.19	0.48	10.4	<0.2	<10	130	0.27	0.22	0.02	0.46	5.35	7.4	10
ZZ40773		0.11	0.003	0.10	0.63	15.7	<0.2	<10	240	0.30	0.23	0.11	0.26	9.99	5.1	12
ZZ40774		0.16	0.002	0.35	1.04	16.0	<0.2	<10	410	0.58	0.25	0.51	0.76	18.70	10.0	20
ZZ40775		0.13	0.008	1.26	1.43	14.9	<0.2	<10	700	0.79	0.32	0.23	0.82	18.85	10.1	23
ZZ40776		0.14	0.005	0.22	1.00	21.8	<0.2	<10	190	0.64	0.23	0.25	0.87	23.7	14.0	19
ZZ40777		0.12	0.004	0.14	1.31	22.8	<0.2	<10	250	0.55	0.25	0.38	0.52	19.90	14.0	22
ZZ40778		0.13	0.002	0.22	1.36	23.2	<0.2	<10	200	0.55	0.28	0.14	0.42	19.25	12.4	24
ZZ40779		0.12	0.005	0.74	1.10	13.8	<0.2	<10	520	0.78	0.29	0.47	0.82	13.20	9.8	20
ZZ40780		0.14	0.005	0.30	0.96	12.5	<0.2	<10	280	0.65	0.26	0.25	0.49	18.40	11.8	19





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40741		0.57	20.9	2.75	3.48	0.05	0.05	0.18	0.032	0.04	12.6	9.6	0.31	589	33.0	0.01
ZZ40742		0.71	19.5	2.36	3.71	0.06	0.03	0.08	0.035	0.04	16.0	9.3	0.27	558	1.89	0.01
ZZ40743		1.39	37.4	3.30	5.51	0.05	0.04	0.07	0.037	0.06	15.8	16.0	0.40	569	5.22	0.01
ZZ40744		1.13	22.4	2.82	4.33	0.05	0.03	0.13	0.036	0.06	18.6	11.8	0.28	749	7.70	0.01
ZZ40745		0.69	45.7	4.37	3.27	0.06	0.08	0.26	0.029	0.06	13.8	12.4	0.34	721	19.15	0.01
ZZ40746		0.71	53.8	4.69	3.88	0.07	0.12	0.11	0.044	0.11	16.4	13.5	0.33	737	10.25	0.01
ZZ40747		1.08	54.9	8.60	2.04	0.06	0.13	0.54	0.035	0.07	12.2	8.6	0.14	747	9.36	0.01
ZZ40748		1.75	22.1	3.18	3.83	<0.05	0.04	0.01	0.045	0.06	4.0	6.2	0.08	425	3.35	<0.01
ZZ40749		1.42	34.1	4.63	4.15	0.05	0.05	0.15	0.042	0.13	10.0	15.3	0.33	653	5.34	0.01
ZZ40750		0.50	21.1	2.58	2.47	<0.05	0.02	0.09	0.035	0.05	12.0	6.4	0.18	699	2.84	0.01
ZZ40751		0.53	24.3	3.02	2.32	0.09	0.08	0.06	0.048	0.06	11.0	4.3	0.14	726	2.87	0.02
ZZ40752		0.53	27.5	5.84	2.10	0.15	0.11	0.08	0.038	0.07	17.9	5.0	0.16	691	29.5	0.02
ZZ40753		0.59	52.1	4.12	2.64	0.13	0.10	0.12	0.034	0.05	17.5	6.1	0.21	661	20.7	0.02
ZZ40754		0.95	46.4	2.24	2.48	0.08	0.11	0.17	0.033	0.06	9.2	5.6	0.13	188	19.65	0.01
ZZ40755		0.63	31.7	6.05	2.32	0.14	0.10	0.05	0.062	0.05	8.7	2.3	0.04	242	13.10	0.02
ZZ40756		0.51	59.3	6.10	3.32	0.12	0.11	0.16	0.044	0.09	11.7	10.1	0.26	548	16.80	0.01
ZZ40757		1.22	40.2	3.58	5.40	0.08	0.05	0.11	0.039	0.13	9.5	19.4	0.36	308	9.01	0.02
ZZ40758		1.63	36.9	6.73	4.62	0.14	0.04	0.04	0.058	0.04	16.0	5.3	0.12	809	2.43	0.01
ZZ40759		2.08	30.8	4.75	5.28	0.08	<0.02	0.02	0.045	0.05	10.0	9.4	0.17	522	2.60	0.01
ZZ40760		2.90	33.6	3.96	7.25	0.07	0.05	0.02	0.042	0.06	11.9	26.9	0.53	758	1.80	0.01
ZZ40761		5.21	20.0	3.22	7.83	0.06	<0.02	0.02	0.027	0.07	8.6	9.9	0.22	327	1.50	0.01
ZZ40762		2.79	15.3	3.50	7.27	0.06	<0.02	0.01	0.028	0.07	6.9	7.7	0.18	297	1.15	0.01
ZZ40763		2.89	24.8	3.66	10.10	0.06	0.02	0.02	0.036	0.07	6.7	8.6	0.14	910	1.35	0.01
ZZ40764		2.97	27.6	3.36	5.90	0.07	0.04	<0.01	0.037	0.07	10.6	24.1	0.42	423	0.96	0.01
ZZ40765		2.72	64.8	5.56	9.11	0.09	0.04	0.01	0.068	0.08	8.4	30.2	0.69	1420	1.22	0.01
ZZ40766		1.83	23.4	3.50	7.14	0.05	<0.02	0.02	0.036	0.08	5.1	7.4	0.15	672	0.90	0.01
ZZ40767		2.15	23.4	3.88	5.59	0.06	0.03	0.02	0.040	0.07	8.5	24.0	0.31	1060	1.04	0.01
ZZ40768		3.61	39.1	4.08	3.89	0.06	0.02	0.02	0.049	0.08	4.4	20.3	0.27	1420	1.09	0.01
ZZ40769		2.87	51.6	4.05	4.14	0.07	0.02	0.02	0.043	0.07	5.6	22.7	0.29	1340	1.77	0.01
ZZ40770		2.33	36.2	2.98	4.26	0.09	0.03	0.05	0.031	0.05	14.6	17.9	0.34	378	3.14	0.01
ZZ40771		1.28	29.6	2.94	1.83	0.08	0.05	0.19	0.030	0.05	3.3	2.2	0.03	150	12.50	0.01
ZZ40772		1.89	53.9	1.93	2.69	<0.05	<0.02	0.02	0.036	0.10	2.9	1.0	0.03	74	4.35	0.01
ZZ40773		1.04	25.2	1.87	3.36	<0.05	<0.02	0.06	0.024	0.06	5.1	7.0	0.10	103	6.20	0.01
ZZ40774		1.65	34.6	2.58	3.91	0.07	0.04	0.07	0.034	0.08	9.2	25.0	0.36	299	3.88	0.02
ZZ40775		2.72	51.1	3.35	4.86	0.09	0.05	0.27	0.047	0.11	8.2	13.9	0.22	346	4.07	0.02
ZZ40776		1.36	45.4	3.13	3.56	0.10	0.05	0.14	0.032	0.08	11.1	17.4	0.40	347	3.18	0.01
ZZ40777		1.22	34.7	3.26	4.39	0.07	0.04	0.14	0.032	0.08	9.7	27.3	0.50	277	2.52	0.01
ZZ40778		1.64	33.6	3.48	5.24	0.07	0.02	0.19	0.036	0.08	9.4	23.7	0.41	369	4.02	0.01
ZZ40779		2.02	50.7	2.40	4.05	0.07	0.07	0.22	0.043	0.12	6.0	13.8	0.24	231	3.66	0.02
ZZ40780		1.99	45.5	2.76	3.51	0.08	0.05	0.07	0.040	0.10	8.8	16.2	0.32	304	3.49	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40741		0.48	92.8	1010	16.0	5.3	0.001	0.09	1.40	2.4	1.4	0.6	24.4	<0.01	0.15	0.7
ZZ40742		0.51	23.4	1620	14.9	6.1	<0.001	0.14	0.80	2.0	1.1	0.5	24.5	<0.01	0.05	0.4
ZZ40743		0.73	73.6	1470	16.1	11.0	<0.001	0.09	1.66	3.1	2.1	0.7	19.3	<0.01	0.09	0.9
ZZ40744		0.62	33.5	1640	15.0	8.8	<0.001	0.13	0.90	2.3	1.0	0.5	23.5	<0.01	0.06	0.5
ZZ40745		0.42	192.0	1080	16.8	5.3	0.001	0.04	2.91	5.9	2.6	0.5	50.3	<0.01	0.11	2.7
ZZ40746		0.47	193.5	2080	21.5	7.2	0.001	0.07	3.20	5.0	3.3	0.7	42.4	<0.01	0.20	1.6
ZZ40747		0.27	245	3010	14.7	6.6	<0.001	0.09	2.51	5.3	3.6	0.6	77.4	<0.01	0.13	1.7
ZZ40748		0.26	21.3	1340	19.8	17.1	<0.001	0.07	0.52	3.3	0.3	0.6	20.2	<0.01	0.09	0.9
ZZ40749		0.22	58.3	1380	24.1	12.4	0.002	0.24	1.49	5.4	2.4	0.8	44.5	<0.01	0.17	1.3
ZZ40750		0.36	58.0	1280	15.9	4.7	<0.001	0.13	1.29	1.7	2.2	0.4	43.2	<0.01	0.17	0.3
ZZ40751		0.21	75.9	1370	19.6	6.8	0.001	0.11	1.78	2.2	2.7	0.6	32.4	0.01	0.31	0.5
ZZ40752		0.24	270	2810	14.4	6.2	0.001	0.12	2.66	2.4	6.6	0.4	107.5	0.01	0.19	0.7
ZZ40753		0.32	191.5	3670	12.9	6.9	0.002	0.10	4.70	2.3	7.5	0.5	121.5	0.01	0.15	0.8
ZZ40754		0.22	92.3	1580	14.1	10.3	0.003	0.09	5.35	2.9	3.4	0.6	39.6	<0.01	0.10	1.1
ZZ40755		0.17	221	3530	21.8	8.6	0.001	0.12	2.86	3.4	3.2	0.6	49.4	0.01	0.60	1.0
ZZ40756		0.27	253	1970	15.1	7.6	0.001	0.11	3.00	4.5	4.6	0.6	107.5	0.01	0.13	1.9
ZZ40757		0.24	27.3	1220	20.9	14.1	0.001	0.14	1.50	3.0	2.2	0.5	25.6	<0.01	0.10	1.5
ZZ40758		0.20	52.1	1520	17.5	9.1	0.001	0.03	0.87	6.9	1.4	0.5	21.2	0.01	0.05	1.3
ZZ40759		0.42	29.8	830	18.5	17.4	<0.001	0.02	0.70	3.9	0.8	0.7	11.7	<0.01	0.05	1.3
ZZ40760		0.49	28.8	620	29.6	16.5	<0.001	0.02	0.81	3.9	0.9	0.7	12.8	<0.01	0.06	2.9
ZZ40761		0.47	13.7	500	22.3	18.7	<0.001	0.01	0.49	2.3	0.4	1.0	7.8	<0.01	0.05	1.2
ZZ40762		0.61	11.3	480	16.6	19.9	<0.001	0.02	0.44	2.2	0.4	1.1	6.2	<0.01	0.05	1.2
ZZ40763		0.43	10.9	720	14.8	20.7	<0.001	0.02	0.43	2.7	0.5	1.1	7.3	<0.01	0.06	1.6
ZZ40764		0.45	22.4	380	21.5	16.2	<0.001	0.01	0.46	4.0	0.4	0.6	15.7	<0.01	0.04	3.5
ZZ40765		0.10	47.0	370	34.2	11.2	<0.001	<0.01	1.14	7.4	0.5	0.8	14.2	<0.01	0.05	7.5
ZZ40766		0.33	13.3	490	18.1	20.1	<0.001	0.02	0.35	3.0	0.3	0.7	6.4	<0.01	0.06	1.7
ZZ40767		0.37	17.9	230	21.8	18.5	<0.001	0.01	0.43	3.6	0.4	0.7	8.7	<0.01	0.06	4.2
ZZ40768		0.23	24.4	270	30.3	15.9	<0.001	0.01	0.61	4.6	0.6	0.6	7.6	<0.01	0.05	3.8
ZZ40769		0.30	27.1	280	23.5	14.0	<0.001	0.01	0.72	4.8	0.7	0.7	11.7	<0.01	0.06	4.6
ZZ40770		0.53	39.3	580	16.5	10.7	0.001	0.01	1.55	5.1	1.5	0.6	25.5	<0.01	0.08	3.2
ZZ40771		0.09	75.1	760	14.4	7.9	0.002	0.10	4.67	3.0	6.0	0.6	120.0	<0.01	0.12	0.8
ZZ40772		0.11	36.0	690	9.6	14.3	0.001	0.01	2.46	1.7	1.5	0.5	6.0	<0.01	0.08	0.4
ZZ40773		0.28	20.8	370	13.0	10.6	0.002	0.03	1.41	2.1	1.5	0.4	20.8	<0.01	0.08	1.4
ZZ40774		0.41	33.8	780	14.3	12.3	0.001	0.03	1.58	3.5	2.0	0.5	49.7	<0.01	0.06	2.5
ZZ40775		0.33	41.2	1330	17.5	18.4	0.001	0.07	2.02	4.6	3.1	0.7	27.0	<0.01	0.08	1.8
ZZ40776		0.20	45.0	980	16.3	9.5	0.001	0.01	1.65	4.2	1.6	0.3	28.3	<0.01	0.06	4.6
ZZ40777		0.31	35.4	690	20.2	10.1	0.001	0.01	1.22	3.3	1.6	0.4	31.2	<0.01	0.07	3.2
ZZ40778		0.51	34.5	620	20.3	13.1	0.001	0.03	1.61	3.1	1.6	0.5	23.9	<0.01	0.07	2.3
ZZ40779		0.29	42.3	860	15.8	17.8	0.001	0.04	2.05	4.1	2.8	0.5	39.0	<0.01	0.09	2.1
ZZ40780		0.37	41.2	790	16.3	13.0	0.001	0.01	2.14	3.7	2.4	0.4	23.6	<0.01	0.06	3.9

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40741		0.012	0.51	4.32	69	0.23	26.5	230	1.2
ZZ40742		0.012	0.10	5.30	67	0.10	30.3	95	0.8
ZZ40743		0.016	0.24	3.65	79	0.25	23.7	380	1.0
ZZ40744		0.014	0.16	5.27	64	0.17	25.8	242	0.7
ZZ40745		0.011	0.48	3.18	86	0.16	32.1	961	2.3
ZZ40746		0.010	0.43	4.52	102	0.14	39.2	1100	3.5
ZZ40747		0.005	0.81	8.28	99	0.09	74.6	1210	3.6
ZZ40748		<0.005	0.28	1.81	41	0.07	3.65	92	0.9
ZZ40749		<0.005	0.59	2.70	73	0.12	20.9	194	1.5
ZZ40750		0.010	0.12	2.83	52	0.12	24.5	286	0.9
ZZ40751		0.005	0.19	3.95	55	0.10	30.3	387	1.9
ZZ40752		0.006	0.20	8.62	130	0.15	86.6	2080	2.2
ZZ40753		0.008	0.29	10.35	177	0.19	83.2	1540	2.2
ZZ40754		<0.005	0.53	5.72	109	0.13	24.0	357	3.6
ZZ40755		<0.005	0.21	7.21	141	0.15	43.1	986	2.0
ZZ40756		0.006	0.28	6.13	124	0.17	49.2	2160	2.9
ZZ40757		<0.005	0.64	1.19	91	0.11	6.31	90	1.4
ZZ40758		<0.005	0.27	0.82	85	0.07	21.3	155	<0.5
ZZ40759		0.008	0.24	0.75	61	0.14	5.03	100	<0.5
ZZ40760		0.009	0.18	0.93	48	0.16	5.50	95	1.4
ZZ40761		0.009	0.14	0.78	46	0.16	2.83	46	<0.5
ZZ40762		0.012	0.12	0.70	41	0.18	2.42	39	<0.5
ZZ40763		0.007	0.10	0.63	45	0.10	3.93	53	0.5
ZZ40764		0.007	0.10	0.66	33	0.14	4.98	75	1.1
ZZ40765		<0.005	0.09	1.38	25	<0.05	9.91	105	2.4
ZZ40766		0.005	0.10	0.48	32	0.07	2.40	72	<0.5
ZZ40767		0.005	0.11	0.51	34	0.12	2.87	58	1.3
ZZ40768		<0.005	0.13	0.72	22	0.08	4.92	79	1.0
ZZ40769		0.006	0.11	0.87	31	0.17	4.58	76	0.6
ZZ40770		0.016	0.18	1.07	48	0.21	10.45	131	0.7
ZZ40771		<0.005	1.20	2.02	127	0.10	18.20	431	1.8
ZZ40772		<0.005	0.22	0.38	46	0.06	1.67	240	<0.5
ZZ40773		0.006	0.31	0.53	48	0.10	2.87	92	0.5
ZZ40774		0.011	0.29	1.02	48	0.15	7.87	139	0.9
ZZ40775		<0.005	0.51	1.43	67	0.11	13.15	194	1.2
ZZ40776		0.006	0.19	1.11	41	0.06	10.70	181	1.6
ZZ40777		0.008	0.16	0.60	46	0.07	5.47	150	1.4
ZZ40778		0.012	0.30	0.61	56	0.15	4.56	142	0.7
ZZ40779		0.006	0.37	1.17	54	0.08	9.02	195	1.7
ZZ40780		0.012	0.25	1.00	43	0.08	9.37	208	1.5



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**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ40781		0.15	0.005	0.39	1.54	12.7	<0.2	<10	290	0.75	0.26	0.21	0.58	15.85	10.9	26
ZZ40782		0.21	0.003	0.05	1.41	22.9	<0.2	<10	180	0.76	0.27	0.21	0.55	28.9	21.7	24
ZZ40783		0.17	0.010	0.17	0.95	15.1	<0.2	<10	210	0.69	0.24	0.92	0.15	11.10	11.8	18
ZZ40784		0.18	0.002	0.04	1.35	15.1	<0.2	<10	140	0.64	0.27	0.38	0.19	10.95	12.3	24
ZZ40785		0.16	0.002	0.21	2.46	65.0	<0.2	<10	300	1.23	0.27	0.52	0.73	33.2	16.5	40
ZZ40786		0.13	0.004	0.44	1.61	41.6	<0.2	<10	300	0.94	0.24	1.05	0.70	37.5	12.2	33
ZZ40787		0.16	0.004	0.32	1.65	61.2	<0.2	<10	470	0.76	0.26	0.79	0.33	32.0	9.5	32
ZZ40788		0.15	0.001	0.12	1.75	485	<0.2	<10	170	0.47	0.27	0.36	1.27	22.3	12.1	23
ZZ40789		0.13	0.006	0.07	2.74	218	<0.2	<10	190	1.68	0.28	0.12	0.84	31.3	26.8	38
ZZ40790		0.17	0.002	0.06	1.45	53.0	<0.2	<10	380	0.66	0.28	0.13	0.27	14.80	8.5	21
ZZ40791		0.17	0.003	0.06	1.71	129.0	<0.2	<10	200	0.88	0.32	0.24	0.39	12.95	14.8	26
ZZ40792		0.20	0.005	0.50	1.28	240	<0.2	<10	390	0.85	0.25	1.04	0.65	12.45	11.3	24
ZZ40793		0.12	0.006	0.39	1.19	1105	<0.2	<10	440	0.82	0.23	1.01	1.10	10.95	12.3	20
ZZ40794		0.15	0.006	0.33	1.28	172.0	<0.2	<10	310	1.01	0.27	0.58	0.78	17.15	12.7	25
ZZ40795		0.13	0.003	0.61	1.39	79.1	<0.2	<10	540	0.77	0.27	1.30	1.29	21.3	11.0	27
ZZ40796		0.17	0.005	0.31	1.15	84.5	<0.2	<10	480	0.62	0.19	1.88	0.84	12.85	9.3	20
ZZ40797		0.19	0.002	0.19	1.47	65.8	<0.2	<10	390	0.60	0.25	1.27	0.54	14.10	8.7	25
ZZ40798		0.17	0.002	0.42	2.32	16.7	<0.2	<10	130	0.76	0.30	0.08	0.37	27.3	8.5	29
ZZ40799		0.13	0.010	0.55	1.68	68.8	<0.2	<10	400	0.94	0.30	1.62	0.51	23.4	14.9	29
ZZ40800		0.22	0.003	0.33	1.58	42.6	<0.2	<10	450	0.86	0.26	1.26	0.65	26.1	15.2	30
ZZ40801		0.14	0.003	0.33	1.45	40.3	<0.2	<10	460	0.80	0.23	2.11	0.83	20.7	11.9	24
ZZ40802		0.17	0.003	0.17	1.75	26.3	<0.2	<10	360	0.81	0.23	1.21	0.38	22.7	14.4	27
ZZ40803		0.19	0.004	0.21	1.91	17.5	<0.2	<10	400	0.85	0.25	1.24	0.45	23.7	14.9	28
ZZ40804		0.10	0.004	0.24	1.88	16.2	<0.2	<10	540	0.92	0.27	1.34	0.59	25.8	17.5	28
ZZ40805		0.17	0.005	0.23	1.97	19.4	<0.2	<10	350	0.81	0.27	0.71	0.40	31.2	17.1	31
ZZ40806		0.15	0.010	0.40	1.58	41.0	<0.2	<10	500	0.80	0.27	0.96	1.23	27.1	12.2	27
ZZ40807		0.21	0.003	0.13	2.41	15.9	<0.2	<10	300	0.87	0.28	0.40	0.25	44.2	26.2	35
ZZ40808		0.19	0.003	0.17	2.33	13.8	<0.2	<10	310	0.97	0.25	1.04	0.22	34.3	21.8	34
ZZ40809		0.34	0.005	0.53	1.43	36.1	<0.2	<10	330	0.83	0.24	0.88	0.62	23.9	12.5	26
ZZ40810		0.15	0.005	0.33	1.65	35.7	<0.2	<10	550	0.82	0.24	1.31	1.13	22.5	15.2	27
ZZ40811		0.15	0.002	0.73	0.62	18.2	<0.2	<10	1670	0.47	0.15	0.69	1.20	11.40	4.5	29
ZZ40812		0.15	0.004	1.00	1.01	30.9	<0.2	<10	1870	0.72	0.21	1.19	0.70	18.15	6.8	28
ZZ40813		0.14	0.009	0.95	0.87	37.1	<0.2	10	1410	0.57	0.18	2.13	0.91	11.05	7.1	22
ZZ40814		0.13	0.002	0.84	1.13	34.9	<0.2	<10	1510	0.72	0.20	0.94	0.51	14.15	9.1	26
ZZ40815		0.14	0.003	0.30	1.81	24.4	<0.2	<10	2510	0.76	0.24	0.85	0.32	21.5	8.0	30
ZZ40816		0.14	0.004	0.32	1.56	19.4	<0.2	<10	1800	0.66	0.25	0.71	0.59	29.2	8.8	29
ZZ40817		0.15	0.006	0.35	1.97	37.6	<0.2	<10	2240	1.38	0.22	0.17	0.36	33.7	14.1	43
ZZ40818		0.16	0.003	0.32	1.92	17.2	<0.2	<10	830	0.94	0.25	0.68	0.79	29.5	14.3	32
ZZ40819		0.15	0.006	0.52	1.36	9.6	<0.2	<10	760	0.76	0.22	1.47	2.74	25.4	11.8	27
ZZ40820		0.15	0.003	0.69	1.51	37.2	<0.2	<10	640	0.90	0.20	0.19	0.66	7.96	6.7	43

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40781		1.94	28.3	3.16	5.24	0.07	0.06	0.13	0.036	0.09	7.6	27.1	0.42	293	2.46	0.02
ZZ40782		1.69	49.2	3.60	5.00	0.09	0.04	0.05	0.037	0.09	13.0	29.8	0.52	846	3.62	0.01
ZZ40783		0.96	25.2	3.20	3.49	0.06	0.04	0.09	0.039	0.07	5.4	12.6	0.19	265	3.58	0.02
ZZ40784		1.60	26.4	3.45	5.06	0.07	0.03	0.01	0.035	0.08	5.5	29.8	0.44	259	2.68	0.01
ZZ40785		2.36	27.6	4.02	4.89	0.11	0.09	0.13	0.048	0.07	17.9	19.8	0.33	514	2.22	0.02
ZZ40786		1.47	27.6	3.10	5.26	0.12	0.06	0.26	0.036	0.07	24.4	21.6	0.54	682	1.75	0.02
ZZ40787		1.30	22.8	3.13	4.62	<0.05	0.04	0.29	0.029	0.07	14.8	16.6	0.53	566	1.44	0.01
ZZ40788		1.59	14.4	3.54	6.57	<0.05	0.04	0.05	0.036	0.04	12.3	23.0	0.17	846	2.58	0.01
ZZ40789		2.21	59.4	4.65	5.15	<0.05	0.13	0.37	0.048	0.10	11.9	40.2	0.77	897	2.35	0.01
ZZ40790		1.77	20.8	3.64	4.50	<0.05	0.02	0.04	0.028	0.06	6.2	20.0	0.32	239	1.54	0.01
ZZ40791		2.55	32.3	4.33	4.50	<0.05	0.03	0.06	0.043	0.08	5.1	32.2	0.43	445	2.21	0.01
ZZ40792		3.54	35.7	3.00	3.39	<0.05	0.06	0.48	0.032	0.11	7.9	21.7	0.37	283	1.68	0.01
ZZ40793		2.15	29.8	4.43	3.41	<0.05	0.05	0.39	0.034	0.08	6.6	18.4	0.32	412	2.92	0.01
ZZ40794		2.57	39.4	3.88	3.44	<0.05	0.05	0.31	0.040	0.09	9.3	19.7	0.35	379	2.08	0.01
ZZ40795		1.25	47.1	2.94	4.00	<0.05	0.05	0.47	0.033	0.09	12.1	16.6	0.39	397	1.53	0.01
ZZ40796		1.68	24.7	2.43	3.14	<0.05	0.05	0.21	0.023	0.09	7.4	16.3	0.35	374	0.82	0.01
ZZ40797		1.76	21.8	3.31	4.73	<0.05	0.04	0.13	0.030	0.07	7.7	21.0	0.35	336	1.42	0.01
ZZ40798		1.63	12.0	3.37	6.36	<0.05	0.11	0.07	0.027	0.05	13.9	23.8	0.34	287	2.09	0.01
ZZ40799		2.26	74.6	4.02	4.42	0.05	0.10	0.45	0.036	0.12	12.8	27.5	0.76	574	1.46	0.01
ZZ40800		1.59	68.2	3.61	4.49	<0.05	0.06	0.32	0.031	0.10	11.7	25.1	0.68	776	1.65	0.01
ZZ40801		1.03	42.8	2.92	4.24	<0.05	0.05	0.22	0.027	0.08	11.9	20.7	0.56	541	1.10	0.01
ZZ40802		1.20	55.7	3.71	4.90	<0.05	0.08	0.14	0.028	0.10	10.3	27.7	0.81	663	0.96	0.01
ZZ40803		1.21	72.3	4.06	5.12	<0.05	0.09	0.15	0.028	0.11	11.1	28.6	0.87	730	0.98	0.01
ZZ40804		1.10	72.9	3.87	5.30	<0.05	0.08	0.19	0.028	0.11	11.1	28.5	0.87	653	0.90	0.01
ZZ40805		1.00	65.4	4.19	5.71	0.05	0.07	0.14	0.030	0.10	13.9	31.1	0.96	498	1.11	0.01
ZZ40806		1.01	36.3	3.99	4.33	<0.05	0.05	0.18	0.034	0.07	12.7	19.4	0.67	774	3.60	0.01
ZZ40807		1.51	100.0	5.07	7.23	0.05	0.14	0.07	0.033	0.13	20.6	38.4	1.36	827	0.82	0.01
ZZ40808		1.34	112.5	4.79	6.78	0.05	0.08	0.12	0.031	0.11	16.1	33.5	1.30	572	0.86	0.01
ZZ40809		1.72	87.7	3.89	4.33	<0.05	0.08	0.24	0.037	0.10	11.2	23.5	0.83	464	2.21	0.01
ZZ40810		0.93	60.9	5.06	4.58	<0.05	0.08	0.17	0.029	0.07	9.8	26.1	0.73	717	1.79	0.01
ZZ40811		0.68	23.7	2.21	2.15	<0.05	0.02	0.04	0.020	0.05	6.1	3.6	0.06	241	3.81	0.01
ZZ40812		0.98	34.9	2.66	2.86	<0.05	0.03	0.16	0.030	0.07	11.4	9.2	0.29	287	3.15	0.01
ZZ40813		0.80	53.4	2.64	2.33	<0.05	0.04	0.18	0.028	0.07	6.9	10.6	0.37	337	2.97	0.01
ZZ40814		1.11	36.5	2.86	3.09	<0.05	0.04	0.18	0.031	0.07	6.6	13.8	0.35	313	2.97	0.01
ZZ40815		1.17	20.3	3.11	5.12	<0.05	0.03	0.02	0.031	0.05	10.0	14.2	0.28	279	2.69	0.01
ZZ40816		1.19	31.2	2.98	4.88	<0.05	<0.02	0.04	0.029	0.06	13.4	15.2	0.41	379	2.18	0.01
ZZ40817		1.01	54.3	3.76	5.01	0.06	0.04	0.16	0.044	0.07	17.1	17.2	0.47	710	4.15	0.01
ZZ40818		0.88	51.4	3.82	5.88	<0.05	0.06	0.07	0.035	0.07	11.8	27.2	0.81	350	1.75	0.01
ZZ40819		0.87	73.6	2.63	4.00	0.05	0.07	0.45	0.031	0.07	11.8	18.1	0.59	483	1.10	0.01
ZZ40820		1.46	41.1	3.45	2.64	<0.05	0.06	0.06	0.040	0.07	4.7	12.4	0.07	103	5.86	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte Units LOR	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40781		0.37	31.2	880	16.0	16.8	0.001	0.03	1.14	4.0	2.2	0.5	18.0	<0.01	0.05	2.5
ZZ40782		0.28	47.7	830	22.4	12.3	0.001	0.01	1.68	4.2	1.7	0.5	22.6	<0.01	0.06	4.3
ZZ40783		0.27	31.5	610	16.4	10.1	0.002	0.03	0.77	4.0	1.6	0.5	25.6	<0.01	0.05	2.1
ZZ40784		0.30	38.5	670	15.8	13.2	0.001	0.01	0.93	3.6	1.0	0.5	17.2	<0.01	0.05	3.0
ZZ40785		0.68	56.0	1180	19.3	17.4	0.001	0.06	0.77	5.4	1.7	0.6	28.7	0.01	0.08	3.1
ZZ40786		0.53	40.3	1200	18.1	13.2	0.001	0.04	0.94	5.0	1.8	0.5	29.1	0.01	0.07	1.9
ZZ40787		0.79	28.7	990	18.6	9.4	<0.001	0.04	0.81	4.2	1.0	0.5	29.7	<0.01	0.05	2.2
ZZ40788		0.86	19.7	1210	20.1	8.5	<0.001	0.03	0.87	2.8	0.7	0.7	24.2	<0.01	0.07	1.9
ZZ40789		0.27	67.1	850	24.1	12.1	0.001	0.02	0.82	5.9	2.0	0.4	20.6	<0.01	0.09	5.4
ZZ40790		0.44	26.8	380	17.8	11.6	<0.001	0.02	0.56	3.2	0.3	0.5	10.1	<0.01	0.06	2.3
ZZ40791		0.34	44.2	770	23.5	12.8	<0.001	0.02	0.88	4.3	1.0	0.6	15.6	<0.01	0.05	2.9
ZZ40792		0.33	48.1	840	17.2	11.2	0.004	0.04	0.72	5.4	2.8	0.5	35.6	<0.01	0.04	2.5
ZZ40793		0.28	46.3	810	16.5	10.8	0.005	0.06	0.83	4.2	2.9	0.4	38.0	<0.01	0.07	1.8
ZZ40794		0.29	48.6	810	18.5	8.8	<0.001	0.03	0.94	5.8	1.6	0.5	29.3	<0.01	0.07	3.1
ZZ40795		0.63	36.5	990	17.7	7.6	0.001	0.04	0.98	4.9	1.9	0.5	30.9	<0.01	0.04	2.5
ZZ40796		0.37	30.5	800	12.3	8.5	0.003	0.08	0.52	3.3	1.5	0.4	35.4	<0.01	0.03	1.4
ZZ40797		0.85	27.4	570	16.2	11.1	<0.001	0.05	0.81	3.2	1.4	0.6	31.4	<0.01	0.05	1.4
ZZ40798		1.73	18.5	350	18.7	11.7	<0.001	0.02	0.93	3.0	1.2	0.8	9.2	0.01	0.05	4.6
ZZ40799		0.26	38.8	880	21.9	8.5	0.001	0.06	0.93	8.2	2.2	0.4	48.1	<0.01	0.09	2.6
ZZ40800		0.34	39.6	800	20.8	7.5	0.001	0.05	0.82	6.4	2.0	0.7	44.8	<0.01	0.04	2.2
ZZ40801		0.44	32.4	700	16.6	6.5	<0.001	0.07	0.69	4.6	1.1	0.4	47.4	<0.01	0.05	1.5
ZZ40802		0.24	32.5	680	16.9	7.0	0.001	0.06	0.66	5.4	1.5	0.3	47.6	<0.01	0.07	2.1
ZZ40803		0.21	34.3	700	18.1	7.3	<0.001	0.06	0.65	6.2	1.2	0.3	47.2	<0.01	0.08	2.0
ZZ40804		0.25	37.0	750	20.7	6.9	0.001	0.05	0.68	6.8	1.4	0.4	52.3	<0.01	0.09	2.3
ZZ40805		0.30	36.7	730	19.6	7.1	<0.001	0.03	0.64	7.6	1.2	0.4	33.6	<0.01	0.09	3.2
ZZ40806		0.41	36.6	820	31.6	8.4	0.001	0.05	1.48	5.7	1.5	0.5	29.7	<0.01	0.06	2.8
ZZ40807		0.14	43.8	440	20.5	6.5	<0.001	0.03	0.53	8.8	1.2	0.3	21.7	<0.01	0.09	5.2
ZZ40808		0.19	40.3	580	17.0	7.1	<0.001	0.05	0.55	8.1	1.4	0.3	39.3	<0.01	0.08	2.6
ZZ40809		0.22	44.1	780	18.0	7.8	<0.001	0.04	1.13	8.2	1.8	0.5	42.9	<0.01	0.07	3.3
ZZ40810		0.28	38.4	990	18.4	7.1	0.006	0.11	0.79	6.0	7.2	0.3	50.0	<0.01	0.08	2.1
ZZ40811		0.21	35.6	1160	10.7	6.1	0.002	0.08	1.11	2.5	4.6	0.5	59.9	<0.01	0.10	0.7
ZZ40812		0.46	44.5	1160	14.2	7.0	0.001	0.08	1.28	4.6	2.7	0.5	59.2	<0.01	0.09	1.6
ZZ40813		0.22	39.5	850	14.0	5.5	0.003	0.12	1.28	3.9	3.6	0.4	85.9	<0.01	0.06	0.6
ZZ40814		0.18	40.4	650	13.2	7.0	0.001	0.05	1.06	6.6	2.5	0.4	53.3	<0.01	0.07	1.4
ZZ40815		0.68	29.9	530	15.3	8.2	<0.001	0.03	0.80	3.9	1.7	0.6	33.1	<0.01	0.06	1.8
ZZ40816		0.54	34.1	730	16.1	8.5	0.001	0.03	0.83	3.9	1.5	0.6	34.8	<0.01	0.07	1.8
ZZ40817		0.17	49.3	430	26.2	8.8	<0.001	0.05	1.29	13.5	3.3	0.6	29.9	<0.01	0.08	3.7
ZZ40818		0.36	40.0	630	17.3	8.8	<0.001	0.03	0.74	6.5	1.7	0.5	32.6	<0.01	0.12	2.9
ZZ40819		0.36	36.0	1090	15.7	8.1	0.002	0.09	0.92	6.8	4.1	0.4	66.4	<0.01	0.05	2.1
ZZ40820		0.26	73.7	1640	14.5	10.7	0.001	0.07	1.46	4.0	5.1	0.5	75.6	<0.01	0.14	3.0



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40781		0.006	0.25	0.97	51	0.10	7.24	120	1.4
ZZ40782		0.007	0.22	0.77	48	0.07	8.29	175	1.4
ZZ40783		<0.005	0.12	2.79	31	0.08	7.20	90	1.0
ZZ40784		0.008	0.15	0.53	37	0.07	5.70	128	0.9
ZZ40785		0.008	0.26	1.70	52	0.16	21.4	122	2.2
ZZ40786		0.013	0.18	1.83	48	0.23	32.9	110	1.5
ZZ40787		0.025	0.19	1.39	52	0.48	13.05	93	1.0
ZZ40788		0.011	0.40	5.37	77	0.26	7.34	107	0.8
ZZ40789		<0.005	0.40	0.91	59	0.17	8.56	172	3.3
ZZ40790		0.006	0.23	0.53	42	0.11	4.50	111	0.6
ZZ40791		<0.005	0.41	0.69	42	0.08	6.52	150	1.0
ZZ40792		<0.005	0.88	1.50	40	0.31	18.25	195	1.5
ZZ40793		<0.005	0.67	1.54	40	0.11	14.30	220	1.3
ZZ40794		0.005	0.47	0.89	43	0.16	16.75	154	1.5
ZZ40795		0.011	0.25	1.29	59	0.25	20.4	139	1.4
ZZ40796		0.005	0.39	0.87	36	0.09	12.60	142	1.2
ZZ40797		0.011	0.29	0.88	56	0.18	8.88	116	0.9
ZZ40798		0.043	0.18	0.70	67	0.33	3.53	75	2.8
ZZ40799		0.005	0.47	1.70	47	0.10	23.3	126	3.2
ZZ40800		0.007	0.25	1.58	51	0.11	15.80	118	1.7
ZZ40801		0.008	0.19	1.37	46	0.07	16.60	116	1.4
ZZ40802		0.005	0.13	0.95	46	<0.05	10.40	99	1.9
ZZ40803		0.005	0.11	1.04	49	<0.05	12.00	101	2.0
ZZ40804		0.005	0.11	1.21	52	0.06	12.60	98	2.0
ZZ40805		0.007	0.11	1.78	55	0.05	12.75	109	2.2
ZZ40806		0.008	0.25	1.77	91	0.10	16.05	171	1.4
ZZ40807		0.006	0.09	0.42	62	<0.05	11.50	93	4.7
ZZ40808		0.006	0.08	0.82	61	<0.05	12.75	85	2.5
ZZ40809		0.005	0.21	0.84	56	0.05	16.60	143	2.6
ZZ40810		0.005	0.10	2.51	54	<0.05	13.75	141	2.0
ZZ40811		0.005	0.12	1.82	89	0.05	16.75	137	0.6
ZZ40812		0.013	0.21	1.48	64	0.13	22.9	136	1.1
ZZ40813		<0.005	0.18	2.36	49	0.06	20.0	149	1.0
ZZ40814		<0.005	0.17	1.29	57	0.05	15.90	141	1.3
ZZ40815		0.010	0.23	1.44	80	0.26	9.71	86	0.8
ZZ40816		0.014	0.16	1.44	62	0.17	12.85	100	<0.5
ZZ40817		<0.005	0.24	2.02	113	0.06	28.8	152	1.1
ZZ40818		0.006	0.11	1.78	67	0.08	11.60	134	1.4
ZZ40819		0.009	0.12	2.73	50	0.35	17.40	166	2.3
ZZ40820		<0.005	0.31	1.98	101	0.06	12.15	263	2.7



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40821		0.15	0.003	0.99	1.74	27.8	<0.2	<10	1520	1.18	0.19	0.17	0.73	17.00	12.0	46
ZZ40822		0.19	0.004	1.26	0.82	16.4	<0.2	<10	1470	0.69	0.20	1.17	0.98	15.30	7.2	26
ZZ40823		0.25	0.003	2.01	0.59	35.0	<0.2	<10	1310	0.68	0.21	1.15	0.90	9.62	6.5	24
ZZ40824		0.17	0.005	0.85	0.85	20.7	<0.2	<10	970	0.83	0.22	0.91	1.01	16.75	8.0	20
ZZ40825		0.17	0.005	0.65	1.21	19.2	<0.2	<10	490	0.94	0.24	0.84	1.29	21.1	10.5	23
ZZ40826		0.18	0.003	0.45	1.49	18.0	<0.2	<10	510	0.96	0.27	0.55	1.26	28.3	18.7	27
ZZ40827		0.11	0.007	0.43	1.18	16.8	<0.2	<10	850	0.81	0.21	1.28	0.75	21.5	10.3	23
ZZ40828		0.15	0.005	0.55	1.15	19.2	<0.2	<10	830	0.86	0.24	0.99	1.16	20.6	14.0	22
ZZ40829		0.17	0.005	0.52	1.12	22.6	<0.2	<10	680	0.83	0.23	1.26	0.84	18.75	12.9	22
ZZ40830		0.14	0.004	0.44	1.36	12.2	<0.2	<10	500	0.98	0.25	1.36	0.89	22.9	16.1	25
ZZ40831		0.25	0.004	0.35	1.38	20.2	<0.2	<10	390	1.01	0.24	0.67	0.44	21.3	13.8	24
ZZ40832		0.19	0.004	0.34	1.48	12.4	<0.2	<10	290	0.98	0.26	0.85	0.68	24.3	14.5	26
ZZ40833		0.16	0.004	0.31	1.69	69.1	<0.2	10	140	1.05	0.26	0.91	0.69	27.2	17.4	26
ZZ40834		0.15	0.004	0.26	1.83	48.3	<0.2	<10	270	1.10	0.27	0.65	0.54	31.8	20.1	28
ZZ40835		0.18	0.005	0.46	1.83	17.6	<0.2	<10	360	1.13	0.25	1.02	0.69	28.5	19.8	28
ZZ40836		0.17	0.004	0.37	1.67	14.0	<0.2	<10	210	1.03	0.28	0.83	0.48	30.9	17.6	25
ZZ40837		0.14	0.002	0.33	0.46	10.1	<0.2	<10	100	0.15	0.21	0.01	0.25	12.30	3.2	8
ZZ40838		0.15	0.005	0.92	2.01	14.9	<0.2	<10	300	0.78	0.27	0.50	1.20	36.3	18.2	29
ZZ40839		0.13	0.003	0.18	1.58	22.8	<0.2	<10	160	1.01	0.29	0.61	0.37	33.4	13.3	26
ZZ40840		0.20	0.003	0.23	1.14	27.1	<0.2	<10	140	1.27	0.27	0.83	0.32	18.95	14.2	19
ZZ40841		0.13	0.004	0.07	0.63	8.8	<0.2	<10	360	1.00	0.40	0.18	0.06	5.96	16.3	14
ZZ40842		0.20	0.004	0.12	1.67	16.0	<0.2	<10	150	1.17	0.28	0.44	0.14	27.5	16.8	26
ZZ40843		0.18	0.001	0.06	1.85	9.2	<0.2	<10	150	1.05	0.38	0.40	0.09	19.00	16.8	27
ZZ40844		0.13	0.002	0.12	1.28	14.1	<0.2	<10	110	1.26	0.40	0.49	0.17	26.8	17.8	25
ZZ40845		0.11	0.003	0.13	1.99	40.4	<0.2	<10	160	1.00	0.27	0.97	0.25	24.7	15.0	29
ZZ40846		0.15	0.003	0.17	1.75	257	<0.2	<10	110	1.08	0.32	0.49	0.27	28.1	19.4	29
ZZ40847		0.11	0.005	0.11	1.26	22.3	<0.2	<10	180	0.80	0.23	1.30	0.30	20.4	18.5	19
ZZ40848		0.16	0.002	0.10	2.15	16.7	<0.2	<10	160	1.02	0.32	0.23	0.26	25.5	13.4	30
ZZ40849		0.12	0.003	0.20	1.90	89.5	<0.2	<10	250	1.18	0.27	1.55	0.78	21.0	18.2	26
ZZ40850		0.12	0.002	0.05	1.48	11.6	<0.2	<10	190	0.63	0.30	0.33	0.14	24.9	5.3	21





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 Account: RCM

Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40821		1.16	39.6	3.80	2.62	<0.05	0.08	0.05	0.047	0.07	8.4	12.0	0.11	276	5.07	0.01
ZZ40822		0.91	41.7	2.31	2.42	<0.05	0.03	0.08	0.026	0.08	7.6	7.3	0.27	179	3.50	0.01
ZZ40823		0.84	54.0	2.52	1.77	0.07	0.04	0.25	0.039	0.09	5.7	6.4	0.14	141	4.14	0.02
ZZ40824		0.98	53.3	2.45	2.79	<0.05	0.06	0.28	0.038	0.08	8.1	13.2	0.25	264	3.79	0.02
ZZ40825		1.11	61.6	2.81	3.72	0.05	0.06	0.24	0.038	0.10	10.0	24.9	0.41	322	3.31	0.01
ZZ40826		1.23	67.1	3.86	4.66	0.07	0.09	0.22	0.040	0.10	13.3	29.0	0.65	703	3.81	0.01
ZZ40827		0.63	34.7	2.54	3.70	<0.05	0.04	0.16	0.029	0.05	10.3	15.1	0.42	492	2.09	0.02
ZZ40828		1.00	69.6	3.10	3.67	0.05	0.07	0.25	0.037	0.10	9.7	20.5	0.56	320	2.50	0.02
ZZ40829		0.81	59.0	3.36	3.51	0.05	0.05	0.32	0.041	0.07	8.4	19.8	0.59	681	2.41	0.01
ZZ40830		1.13	73.8	3.16	4.42	0.07	0.07	0.25	0.041	0.08	10.6	25.4	0.80	703	1.38	0.01
ZZ40831		0.76	63.8	3.47	4.47	0.06	0.07	0.20	0.042	0.07	10.1	28.6	0.56	345	1.83	0.01
ZZ40832		0.82	62.0	3.16	4.80	0.05	0.08	0.17	0.046	0.08	10.1	29.2	0.68	201	1.23	0.01
ZZ40833		2.45	83.4	3.69	5.53	0.07	0.09	0.17	0.039	0.15	13.1	36.6	0.93	433	1.27	0.01
ZZ40834		1.90	86.1	4.30	5.84	0.06	0.09	0.14	0.043	0.13	14.7	36.8	0.93	522	1.69	0.01
ZZ40835		1.75	99.2	3.88	5.58	0.07	0.10	0.21	0.043	0.12	13.2	33.8	0.93	457	1.28	0.01
ZZ40836		1.95	66.6	4.28	5.02	0.07	0.14	0.17	0.033	0.12	14.3	40.0	1.01	664	1.04	0.01
ZZ40837		4.41	40.0	1.38	3.39	<0.05	<0.02	0.05	0.020	0.08	6.3	2.2	0.05	39	3.39	0.01
ZZ40838		3.90	72.2	4.13	6.26	0.10	0.09	0.29	0.039	0.14	16.4	40.3	1.07	399	0.97	0.01
ZZ40839		2.83	40.0	3.44	5.11	0.05	0.05	0.04	0.043	0.08	13.3	34.2	0.62	429	0.90	0.01
ZZ40840		4.29	51.5	3.24	3.45	0.06	0.07	0.16	0.036	0.11	9.4	21.0	0.50	612	0.52	0.01
ZZ40841		13.35	45.3	3.72	2.48	<0.05	0.02	0.02	0.031	0.10	2.7	10.2	0.15	499	1.26	0.01
ZZ40842		2.46	71.7	4.03	5.30	0.06	0.11	0.09	0.040	0.09	14.1	39.8	0.85	725	0.89	0.01
ZZ40843		1.27	35.4	3.90	7.24	<0.05	0.04	0.02	0.039	0.06	8.8	30.5	0.47	335	0.73	0.02
ZZ40844		1.14	74.1	4.27	4.57	0.05	0.08	0.13	0.048	0.07	12.1	22.5	0.55	344	0.65	0.01
ZZ40845		1.67	69.7	3.50	6.03	0.05	0.10	0.12	0.041	0.11	11.5	41.6	0.91	422	0.35	0.01
ZZ40846		1.99	69.1	4.77	5.71	0.08	0.08	0.11	0.045	0.10	13.5	41.1	0.84	491	1.36	0.01
ZZ40847		1.14	66.4	3.50	4.23	0.05	0.05	0.11	0.032	0.06	9.2	29.9	0.62	463	0.53	0.01
ZZ40848		1.80	27.1	3.37	6.05	<0.05	0.04	0.06	0.043	0.05	11.8	23.2	0.38	327	2.08	0.01
ZZ40849		2.50	83.4	3.87	5.88	0.05	0.09	0.17	0.039	0.12	9.9	36.7	0.78	1360	5.89	0.02
ZZ40850		1.71	14.8	2.91	6.67	<0.05	<0.02	0.02	0.030	0.04	12.0	21.2	0.25	146	1.74	0.01

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**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40821		0.35	74.4	1330	13.7	10.3	0.001	0.06	1.33	5.5	5.6	0.6	71.8	<0.01	0.09	4.7
ZZ40822		0.44	59.3	1080	11.2	7.1	0.001	0.09	1.34	5.3	4.3	0.4	93.8	<0.01	0.09	2.1
ZZ40823		0.13	71.7	2080	12.9	6.7	0.002	0.09	1.74	5.2	4.6	0.4	113.0	<0.01	0.18	3.4
ZZ40824		0.27	43.3	900	14.9	7.5	0.006	0.05	1.92	5.2	3.4	0.5	53.5	<0.01	0.10	2.7
ZZ40825		0.35	44.9	720	16.4	9.0	0.006	0.04	1.60	5.8	2.7	0.5	45.8	<0.01	0.08	3.4
ZZ40826		0.30	56.3	830	19.2	10.6	0.004	0.03	0.91	8.0	3.0	0.5	44.2	<0.01	0.10	4.3
ZZ40827		0.64	32.7	680	13.2	6.6	0.002	0.05	1.02	4.1	2.1	0.5	52.5	<0.01	0.08	1.9
ZZ40828		0.26	43.5	800	17.0	7.0	0.003	0.06	1.48	7.2	3.3	0.4	56.1	<0.01	0.12	3.5
ZZ40829		0.29	39.6	700	16.5	6.5	0.001	0.05	1.28	6.3	2.4	0.4	65.0	<0.01	0.08	2.1
ZZ40830		0.41	41.9	790	15.1	7.9	0.002	0.06	0.81	8.9	3.0	0.5	61.8	<0.01	0.10	3.0
ZZ40831		0.35	40.0	360	16.9	7.5	0.002	0.03	0.87	8.1	2.1	0.5	40.8	<0.01	0.11	3.3
ZZ40832		0.36	37.0	650	18.5	7.2	0.004	0.05	0.77	8.1	2.1	0.5	48.6	<0.01	0.10	3.3
ZZ40833		0.22	48.5	690	17.4	11.3	<0.001	0.05	0.82	8.5	3.0	0.4	60.7	<0.01	0.09	3.2
ZZ40834		0.27	46.9	540	18.2	8.3	0.001	0.03	0.93	8.9	2.0	0.4	39.8	<0.01	0.08	4.3
ZZ40835		0.25	50.1	690	16.3	8.9	<0.001	0.04	0.86	9.7	2.8	0.4	54.3	<0.01	0.08	3.9
ZZ40836		0.18	44.5	690	19.5	8.4	0.001	0.02	0.71	7.0	2.4	0.4	48.9	<0.01	0.09	5.7
ZZ40837		0.34	19.9	230	7.0	13.3	0.001	0.01	1.83	1.7	1.3	0.7	5.2	<0.01	0.10	1.5
ZZ40838		0.23	78.9	620	17.6	17.0	0.001	0.04	0.61	8.8	5.7	0.4	36.2	<0.01	0.09	5.4
ZZ40839		0.68	33.2	380	20.2	10.8	<0.001	0.02	0.52	5.4	0.8	0.5	34.9	<0.01	0.07	4.0
ZZ40840		0.26	32.5	550	17.8	11.4	0.001	0.04	0.42	6.7	1.6	0.4	39.6	<0.01	0.05	2.6
ZZ40841		0.51	20.5	280	28.7	16.3	<0.001	0.01	0.41	3.1	0.3	0.6	18.8	<0.01	0.07	2.6
ZZ40842		0.22	36.5	440	17.4	8.0	<0.001	0.02	0.45	7.8	0.9	0.4	28.3	<0.01	0.06	4.6
ZZ40843		0.58	27.5	150	17.6	14.2	0.001	0.01	0.31	4.4	0.3	0.8	26.0	<0.01	0.04	3.9
ZZ40844		0.30	34.1	420	24.1	7.2	<0.001	0.02	0.35	9.4	1.0	0.7	31.1	<0.01	0.06	5.4
ZZ40845		0.27	33.8	680	17.2	10.1	0.001	0.11	0.33	7.6	1.2	0.4	50.7	<0.01	0.07	3.5
ZZ40846		0.30	40.7	660	29.2	10.9	<0.001	0.03	0.45	7.8	1.4	0.5	33.6	<0.01	0.10	5.4
ZZ40847		0.20	32.3	660	25.5	6.3	0.001	0.05	0.52	4.8	0.7	0.3	58.8	<0.01	0.07	1.7
ZZ40848		1.49	29.6	280	19.0	12.1	0.001	0.01	0.84	3.5	0.7	0.7	20.7	0.01	0.05	5.1
ZZ40849		0.34	50.9	920	39.4	13.1	0.001	0.08	0.89	5.3	2.5	0.5	70.3	<0.01	0.06	1.5
ZZ40850		1.19	13.1	200	15.4	8.2	<0.001	0.01	0.53	2.4	0.3	0.8	25.3	<0.01	0.06	2.7

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**CERTIFICATE OF ANALYSIS WH12194359**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ40821		<0.005	0.26	2.33	97	0.07	17.40	268	3.7
ZZ40822		0.010	0.16	2.23	64	0.10	22.2	200	1.4
ZZ40823		<0.005	0.15	2.10	53	<0.05	21.1	193	1.9
ZZ40824		<0.005	0.21	2.22	68	0.06	15.60	186	2.0
ZZ40825		0.005	0.21	1.46	69	0.06	14.85	187	2.4
ZZ40826		0.007	0.17	1.73	55	0.06	15.25	200	3.1
ZZ40827		0.012	0.11	1.96	56	0.12	10.25	105	1.3
ZZ40828		0.005	0.17	1.77	59	0.05	14.90	153	2.5
ZZ40829		0.006	0.16	1.51	57	0.05	12.00	169	1.8
ZZ40830		0.011	0.16	1.59	48	0.10	14.65	127	2.5
ZZ40831		0.006	0.13	1.11	51	0.12	12.15	103	2.3
ZZ40832		0.007	0.13	1.55	54	0.05	12.40	124	2.4
ZZ40833		0.005	0.27	1.26	46	0.06	14.00	161	2.9
ZZ40834		0.007	0.17	1.15	52	0.05	12.90	123	3.1
ZZ40835		0.005	0.14	1.39	52	<0.05	15.50	106	3.3
ZZ40836		0.005	0.11	0.95	39	<0.05	11.75	98	5.1
ZZ40837		0.007	0.14	0.35	57	0.07	1.50	143	<0.5
ZZ40838		0.005	0.28	1.26	53	<0.05	22.6	188	3.1
ZZ40839		0.015	0.13	0.80	43	0.16	9.08	73	1.7
ZZ40840		0.005	0.20	1.14	28	0.25	15.30	96	2.0
ZZ40841		0.010	0.11	0.50	21	0.15	4.11	72	0.6
ZZ40842		0.006	0.08	0.93	38	<0.05	11.45	78	3.9
ZZ40843		0.007	0.12	0.46	37	0.08	3.65	60	1.7
ZZ40844		<0.005	0.10	0.89	38	0.05	12.30	85	2.6
ZZ40845		<0.005	0.11	1.78	43	<0.05	11.05	91	3.3
ZZ40846		0.006	0.13	1.15	40	<0.05	11.75	106	3.5
ZZ40847		<0.005	0.07	1.20	31	<0.05	8.05	76	1.5
ZZ40848		0.030	0.15	0.75	56	0.26	3.25	81	1.8
ZZ40849		0.007	0.17	11.80	43	0.06	9.30	150	2.6
ZZ40850		0.022	0.12	0.54	60	0.24	2.44	42	<0.5



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**CERTIFICATE OF ANALYSIS WH12194359**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194520**

Project: ATAC- Regional  
 P.O. No.: Soil 33  
 This report is for 150 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

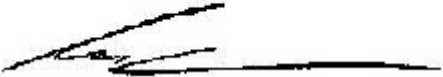
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40851		0.16	0.002	0.04	1.46	13.5	<0.2	<10	110	1.21	0.40	0.25	0.06	28.4	13.3	22
ZZ40852		0.12	0.003	0.04	2.27	15.1	<0.2	<10	160	1.21	0.29	0.30	0.13	38.9	22.5	30
ZZ40853		0.12	0.003	0.08	1.19	18.3	<0.2	<10	140	0.59	0.35	0.63	0.45	27.2	14.1	19
ZZ40854		0.14	0.009	0.10	1.52	22.3	<0.2	<10	150	0.94	0.36	0.96	0.17	20.2	18.4	22
ZZ40855		0.12	0.005	0.19	1.15	30.0	<0.2	<10	150	0.94	0.28	1.52	0.35	14.70	15.7	18
ZZ40856		0.12	0.002	0.15	0.92	24.4	<0.2	<10	150	0.79	0.33	0.04	0.66	14.30	14.8	15
ZZ40857		0.13	0.016	0.75	0.75	8.5	<0.2	<10	100	0.48	0.19	0.07	2.76	11.15	9.3	15
ZZ40858		0.12	0.008	0.45	1.52	11.3	<0.2	<10	120	0.53	0.26	0.07	0.51	19.45	9.2	24
ZZ40859		0.10	0.008	0.45	1.18	20.2	<0.2	<10	190	0.66	0.28	0.08	0.49	20.3	12.5	20
ZZ40860		0.14	0.002	0.11	1.19	23.5	<0.2	<10	200	0.87	0.29	0.23	0.54	21.8	16.4	22
ZZ40861		0.23	0.003	0.74	0.82	19.4	<0.2	<10	150	0.96	0.29	0.69	1.01	16.90	13.6	17
ZZ40862		0.15	0.008	0.32	1.26	16.1	<0.2	<10	240	0.97	0.27	0.76	0.61	22.0	14.0	24
ZZ40863		0.18	0.003	0.68	0.50	13.0	<0.2	<10	220	0.94	0.34	0.44	1.61	10.50	14.2	8
ZZ40864		0.19	0.003	0.82	0.55	16.5	<0.2	<10	130	0.96	0.23	0.99	2.59	12.45	13.8	12
ZZ40865		0.15	0.003	0.89	0.90	13.6	<0.2	<10	160	0.80	0.23	0.94	1.77	16.70	11.8	17
ZZ40866		0.15	0.003	1.12	1.17	12.1	<0.2	<10	260	0.76	0.22	1.00	1.67	30.9	12.4	21
ZZ40867		0.17	0.002	0.42	1.60	12.7	<0.2	<10	260	0.75	0.18	0.99	0.50	72.5	21.2	25
ZZ40868		0.18	0.004	0.64	0.81	14.2	<0.2	<10	160	0.71	0.17	1.43	0.88	46.9	18.0	15
ZZ40869		0.22	0.002	0.18	1.16	5.6	<0.2	<10	260	1.22	0.42	0.18	0.22	10.10	19.5	28
ZZ40870		0.19	0.002	0.28	0.93	16.6	<0.2	<10	230	1.05	0.28	0.60	0.38	17.60	14.2	19
ZZ40871		0.14	0.005	0.36	1.13	103.0	<0.2	<10	220	0.80	0.24	2.24	0.67	21.8	15.6	20
ZZ40872		0.15	0.006	0.39	1.14	84.2	<0.2	<10	240	0.91	0.24	0.99	0.85	20.8	15.6	22
ZZ40873		0.13	0.004	0.49	1.63	36.7	<0.2	<10	500	1.10	0.26	1.61	0.61	22.6	19.7	27
ZZ40874		0.15	0.004	0.39	1.24	81.7	<0.2	<10	390	0.83	0.23	2.28	0.86	20.0	14.2	23
ZZ40875		0.16	0.003	0.40	1.04	14.2	<0.2	<10	270	0.91	0.24	0.52	1.14	22.9	13.1	21
ZZ40876		0.17	0.004	0.04	1.06	8.2	<0.2	<10	150	0.71	0.44	0.09	0.12	5.81	21.7	22
ZZ40877		0.12	0.004	0.10	0.94	11.4	<0.2	<10	60	0.36	0.28	0.06	0.12	15.85	6.6	16
ZZ40878		0.12	0.008	0.24	0.77	7.3	<0.2	<10	220	0.54	0.39	0.13	0.33	7.40	9.1	17
ZZ40879		0.17	0.002	0.18	0.91	26.9	<0.2	<10	230	1.15	0.39	0.23	0.32	12.30	14.0	19
ZZ40880		0.18	0.004	0.43	1.16	25.5	<0.2	<10	770	0.89	0.27	0.94	1.26	23.5	13.8	23
ZZ40881		0.16	0.004	0.85	0.96	20.3	<0.2	<10	1820	0.79	0.22	1.12	2.23	14.70	9.8	23
ZZ40882		0.19	0.003	0.26	1.39	19.7	<0.2	<10	260	1.01	0.27	0.42	0.66	30.2	15.1	25
ZZ40883		0.21	0.004	0.37	1.66	26.1	<0.2	<10	290	1.13	0.28	0.54	0.91	30.0	19.7	28
ZZ40884		0.17	0.001	0.22	1.08	19.0	<0.2	<10	230	0.57	0.25	0.13	0.36	15.20	6.9	19
ZZ40885		0.14	0.003	0.15	1.22	29.0	<0.2	<10	300	1.55	0.30	0.19	0.33	20.2	13.5	24
ZZ40886		0.16	0.003	0.17	1.45	20.7	<0.2	<10	240	1.58	0.33	0.07	0.39	25.9	15.6	25
ZZ40887		0.10	0.006	0.31	0.89	9.1	<0.2	<10	140	0.24	0.20	0.04	0.20	16.70	2.6	16
ZZ40888		0.18	0.002	0.11	1.14	15.5	<0.2	<10	320	1.44	0.40	0.17	0.22	13.55	14.0	23
ZZ40889		0.17	0.005	0.28	1.72	22.6	<0.2	<10	280	2.62	0.29	0.49	1.00	21.4	43.0	28
ZZ40890		0.16	0.003	0.67	1.53	35.4	<0.2	10	290	2.24	0.21	2.49	1.50	10.40	29.3	60

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40851		1.93	36.4	3.81	4.49	0.05	0.03	0.02	0.040	0.07	13.0	30.4	0.49	358	0.65	0.01
ZZ40852		1.51	67.3	4.67	6.41	0.05	0.07	0.03	0.046	0.08	14.7	47.5	0.96	616	0.61	0.01
ZZ40853		1.34	25.0	4.08	5.97	<0.05	0.04	0.06	0.043	0.05	12.3	24.5	0.30	783	2.45	0.01
ZZ40854		1.46	52.3	4.21	4.03	<0.05	0.07	0.09	0.046	0.04	7.5	44.3	0.56	574	0.89	0.01
ZZ40855		1.35	42.6	3.70	3.46	<0.05	0.06	0.33	0.035	0.06	6.7	30.1	0.51	614	0.78	0.01
ZZ40856		1.21	27.7	2.81	4.14	<0.05	<0.02	0.14	0.034	0.13	6.9	7.0	0.10	669	2.06	0.01
ZZ40857		3.77	34.2	2.31	3.18	<0.05	0.03	0.11	0.032	0.10	5.1	3.2	0.09	245	7.87	0.01
ZZ40858		2.61	36.1	2.96	5.96	<0.05	0.03	0.07	0.034	0.09	9.2	12.8	0.25	247	3.18	0.02
ZZ40859		2.80	39.7	3.35	4.48	<0.05	<0.02	0.05	0.036	0.10	9.0	11.5	0.23	319	4.63	0.02
ZZ40860		1.12	41.1	4.19	4.06	<0.05	0.05	0.05	0.044	0.07	8.5	16.9	0.32	712	3.30	0.01
ZZ40861		0.96	55.2	3.04	3.01	<0.05	0.06	0.18	0.043	0.07	7.5	10.2	0.25	332	5.44	0.01
ZZ40862		0.93	35.4	3.16	4.63	<0.05	0.06	0.10	0.037	0.07	10.2	17.1	0.40	438	2.45	0.01
ZZ40863		1.47	34.3	2.65	1.89	<0.05	0.05	0.13	0.055	0.11	4.2	2.7	0.07	132	3.17	0.01
ZZ40864		0.92	51.8	2.58	1.88	<0.05	0.08	0.40	0.042	0.08	5.9	5.3	0.14	320	11.25	0.01
ZZ40865		1.02	43.3	2.67	3.08	<0.05	0.06	0.18	0.037	0.07	7.1	11.8	0.26	262	5.92	0.01
ZZ40866		1.37	47.4	2.78	4.09	0.05	0.07	0.17	0.034	0.08	15.1	14.7	0.32	352	4.67	0.01
ZZ40867		1.95	32.7	4.27	5.24	0.08	0.04	0.05	0.045	0.09	36.3	25.4	0.35	745	4.15	0.02
ZZ40868		1.22	49.2	3.55	2.85	0.07	0.05	0.13	0.041	0.10	22.6	12.0	0.26	392	5.48	0.01
ZZ40869		3.61	49.6	4.35	4.00	<0.05	0.02	<0.01	0.028	0.08	3.9	27.1	0.44	1290	1.74	0.01
ZZ40870		2.01	44.2	3.38	3.24	<0.05	0.06	0.19	0.033	0.08	7.5	13.5	0.35	790	2.20	0.01
ZZ40871		1.93	56.7	3.73	3.91	0.06	0.07	0.18	0.032	0.08	10.0	21.1	0.97	355	2.26	0.01
ZZ40872		1.43	49.3	3.25	3.89	0.05	0.06	0.25	0.039	0.09	9.7	16.2	0.41	331	2.63	0.01
ZZ40873		1.38	83.5	3.80	5.39	0.06	0.08	0.27	0.036	0.12	10.7	26.0	0.82	739	2.18	0.01
ZZ40874		1.07	44.1	3.02	4.12	<0.05	0.06	0.33	0.035	0.09	9.2	18.2	0.90	651	2.14	0.02
ZZ40875		1.84	44.4	2.92	3.68	0.05	0.08	0.19	0.032	0.08	11.0	14.7	0.37	402	3.37	0.02
ZZ40876		2.83	20.1	4.35	4.39	<0.05	<0.02	<0.01	0.024	0.08	2.4	23.0	0.36	1670	1.96	0.01
ZZ40877		2.33	26.2	2.98	6.24	<0.05	0.02	0.01	0.025	0.07	6.0	5.2	0.12	315	2.22	0.01
ZZ40878		2.81	21.1	3.00	5.26	<0.05	<0.02	0.04	0.023	0.07	3.4	7.2	0.13	629	1.52	0.01
ZZ40879		3.19	34.0	3.54	3.20	<0.05	0.03	0.04	0.029	0.08	5.4	18.8	0.33	599	3.18	0.01
ZZ40880		1.47	58.3	3.44	4.01	0.06	0.08	0.21	0.040	0.09	11.6	17.8	0.64	473	4.27	0.02
ZZ40881		0.75	42.0	2.65	3.19	<0.05	0.06	0.15	0.032	0.07	8.4	12.1	0.30	348	7.28	0.01
ZZ40882		1.26	57.1	3.64	4.69	0.07	0.06	0.15	0.033	0.09	14.1	24.1	0.58	479	2.44	0.01
ZZ40883		2.33	74.3	4.17	5.46	0.06	0.09	0.24	0.041	0.14	13.6	30.3	0.70	516	2.37	0.02
ZZ40884		1.22	30.2	2.81	4.61	<0.05	<0.02	0.11	0.030	0.07	6.9	10.2	0.17	171	2.23	0.01
ZZ40885		2.90	59.4	3.39	4.45	<0.05	0.04	0.09	0.034	0.08	9.9	16.0	0.37	562	2.48	0.01
ZZ40886		3.57	73.7	3.59	4.73	<0.05	0.04	0.11	0.038	0.07	11.3	24.4	0.39	702	2.75	0.01
ZZ40887		2.18	20.4	1.54	5.43	<0.05	<0.02	0.04	0.017	0.05	7.9	3.1	0.07	94	1.67	0.01
ZZ40888		2.99	39.0	3.75	3.67	<0.05	0.02	0.04	0.035	0.08	6.2	16.1	0.30	827	2.43	0.01
ZZ40889		1.43	86.5	5.26	4.21	0.07	0.10	0.18	0.057	0.10	11.4	26.4	0.49	968	2.42	0.02
ZZ40890		2.82	55.1	4.68	3.12	<0.05	0.07	0.30	0.059	0.07	7.7	12.5	0.18	924	2.50	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ40851	0.37	32.2	200	22.1	10.1	<0.001	0.01	0.30	5.4	0.5	0.6	19.8	<0.01	0.06	5.5	
ZZ40852	0.18	39.5	290	19.2	9.5	0.001	0.01	0.43	5.7	0.5	0.3	21.6	<0.01	0.07	4.5	
ZZ40853	0.71	16.7	400	19.8	7.8	<0.001	0.02	0.46	3.3	0.4	0.5	31.9	<0.01	0.08	3.6	
ZZ40854	0.23	28.8	540	21.0	6.2	0.001	0.04	0.67	3.6	1.0	0.3	47.1	<0.01	0.09	2.3	
ZZ40855	0.17	26.8	810	19.8	6.4	0.001	0.13	0.49	5.0	2.2	0.3	86.1	<0.01	0.06	1.9	
ZZ40856	0.44	17.8	840	41.7	13.0	<0.001	0.06	1.17	1.1	0.4	0.6	16.5	<0.01	0.07	0.4	
ZZ40857	0.30	28.5	1480	16.7	9.3	0.002	0.06	2.48	1.2	1.6	0.6	6.5	<0.01	0.08	0.4	
ZZ40858	0.44	24.7	1350	17.3	11.0	0.002	0.05	1.17	1.4	1.0	0.9	21.9	<0.01	0.07	0.8	
ZZ40859	0.37	29.2	1300	28.0	12.2	0.001	0.09	1.84	1.2	1.2	0.7	33.6	<0.01	0.04	0.3	
ZZ40860	0.39	34.6	800	21.7	9.0	<0.001	0.01	1.22	4.3	0.9	0.6	15.0	<0.01	0.05	3.1	
ZZ40861	0.30	39.5	530	19.6	5.3	0.001	0.01	3.38	4.9	3.3	0.5	28.7	<0.01	0.06	3.3	
ZZ40862	0.69	34.6	510	16.8	8.6	0.001	0.02	1.37	4.7	1.0	0.6	23.4	<0.01	0.05	2.7	
ZZ40863	0.14	36.0	430	20.4	6.8	0.001	0.05	4.26	5.8	2.4	0.6	27.0	<0.01	0.02	3.5	
ZZ40864	0.24	46.2	470	17.1	5.7	0.002	0.03	5.75	5.7	3.2	0.5	22.8	<0.01	0.04	2.1	
ZZ40865	0.39	32.4	640	17.9	6.6	0.003	0.02	3.18	4.2	2.7	0.5	24.0	<0.01	0.06	2.2	
ZZ40866	0.45	33.7	1050	16.3	8.5	0.001	0.03	2.67	4.0	3.1	0.6	23.1	<0.01	0.04	2.1	
ZZ40867	0.50	47.8	1310	15.5	9.7	0.001	0.06	0.86	5.7	1.4	0.7	42.4	<0.01	0.02	2.2	
ZZ40868	0.29	50.0	1830	19.6	6.7	0.002	0.04	1.88	6.1	2.3	0.4	39.0	<0.01	0.02	2.1	
ZZ40869	0.43	33.1	280	31.4	7.2	<0.001	0.01	0.56	3.7	0.2	0.8	17.6	<0.01	0.02	4.9	
ZZ40870	0.54	33.5	710	26.2	7.0	0.002	0.02	0.91	5.5	0.7	0.5	28.5	<0.01	0.02	3.9	
ZZ40871	0.23	44.7	870	26.7	6.9	0.001	0.02	0.94	5.7	1.2	0.4	49.1	<0.01	0.06	4.3	
ZZ40872	0.37	43.3	670	20.0	8.0	0.002	0.02	1.10	5.7	1.6	0.5	28.5	<0.01	0.07	3.0	
ZZ40873	0.32	45.9	720	21.1	8.4	0.001	0.04	1.19	7.5	1.7	0.5	43.7	<0.01	0.08	2.9	
ZZ40874	0.46	39.6	660	19.6	7.6	0.002	0.04	1.14	5.2	1.7	0.5	36.4	<0.01	0.05	2.3	
ZZ40875	0.78	38.8	860	17.7	8.1	0.002	0.02	1.46	5.4	1.8	0.5	31.3	<0.01	0.03	4.3	
ZZ40876	0.42	26.8	280	23.1	10.8	<0.001	0.01	0.48	2.7	<0.2	0.7	10.4	<0.01	0.04	2.9	
ZZ40877	0.30	15.6	380	12.7	10.9	<0.001	0.01	0.66	2.5	<0.2	0.7	5.5	<0.01	0.02	2.0	
ZZ40878	0.48	13.9	590	24.7	10.1	<0.001	0.04	0.55	1.5	0.6	0.8	10.5	<0.01	0.04	0.6	
ZZ40879	0.42	30.2	390	22.8	7.8	0.001	0.02	0.89	3.6	0.3	0.6	18.8	<0.01	0.02	3.6	
ZZ40880	0.48	44.2	940	18.6	7.8	0.001	0.02	1.59	6.4	0.9	0.6	35.9	<0.01	0.06	5.2	
ZZ40881	0.27	52.8	1790	16.7	6.7	0.007	0.10	2.58	3.6	4.0	0.5	73.3	<0.01	0.10	1.4	
ZZ40882	0.40	40.8	820	16.7	7.5	<0.001	0.01	1.03	6.1	1.0	0.4	32.6	<0.01	0.03	4.5	
ZZ40883	0.33	48.9	990	20.7	10.4	0.001	0.01	1.12	8.0	1.1	0.5	48.7	<0.01	0.06	5.2	
ZZ40884	0.60	19.6	340	16.0	12.2	<0.001	0.02	0.81	3.1	0.3	0.8	15.7	<0.01	0.05	2.5	
ZZ40885	0.46	32.9	550	21.7	11.4	0.001	0.01	0.88	6.0	0.9	0.6	30.2	<0.01	0.05	3.8	
ZZ40886	0.47	32.4	420	24.9	15.3	<0.001	0.01	0.87	4.8	0.9	0.6	15.5	<0.01	0.06	4.3	
ZZ40887	0.46	8.6	460	11.0	8.7	<0.001	0.02	0.45	1.3	<0.2	1.0	7.8	<0.01	0.05	1.1	
ZZ40888	0.44	28.1	430	27.9	10.0	<0.001	0.03	0.85	4.3	0.4	0.7	31.9	<0.01	0.04	3.5	
ZZ40889	0.41	155.0	790	21.8	8.9	0.001	0.03	1.08	11.1	2.4	0.5	35.1	<0.01	0.05	4.7	
ZZ40890	0.27	81.2	1620	23.9	10.1	0.001	0.16	1.75	6.0	3.9	0.6	238	<0.01	0.08	0.7	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40851		0.005	0.09	0.69	29	0.06	7.03	54	1.3
ZZ40852		<0.005	0.08	0.61	45	<0.05	4.98	75	2.9
ZZ40853		0.015	0.09	0.82	46	0.10	5.03	96	1.6
ZZ40854		<0.005	0.09	1.14	28	<0.05	5.94	64	2.2
ZZ40855		<0.005	0.09	4.20	29	<0.05	9.71	96	2.4
ZZ40856		0.011	0.10	0.95	37	0.09	2.72	95	<0.5
ZZ40857		0.005	0.29	1.58	46	0.07	4.14	172	0.9
ZZ40858		0.007	0.19	0.96	45	0.09	3.75	105	0.9
ZZ40859		0.006	0.21	1.23	42	0.11	5.33	132	<0.5
ZZ40860		0.005	0.14	0.86	42	0.07	7.02	132	1.3
ZZ40861		<0.005	0.12	0.94	42	0.05	9.28	236	2.2
ZZ40862		0.013	0.11	1.13	40	0.18	8.65	116	1.8
ZZ40863		<0.005	0.24	0.92	23	<0.05	6.83	392	1.8
ZZ40864		<0.005	0.20	1.00	34	<0.05	12.35	254	3.0
ZZ40865		<0.005	0.13	1.45	40	0.07	8.61	198	1.8
ZZ40866		0.008	0.21	2.26	45	0.10	13.50	164	2.0
ZZ40867		0.008	0.25	1.15	43	0.12	17.50	102	1.1
ZZ40868		0.005	0.16	1.54	27	0.05	18.25	164	1.6
ZZ40869		0.011	0.07	0.91	27	0.12	5.33	106	0.7
ZZ40870		0.010	0.12	1.10	32	0.11	9.98	142	2.1
ZZ40871		<0.005	0.25	1.02	37	0.07	14.30	138	3.1
ZZ40872		0.005	0.21	1.30	44	0.09	14.55	146	2.0
ZZ40873		<0.005	0.17	1.40	53	0.07	16.20	123	3.0
ZZ40874		0.007	0.30	1.35	44	0.07	13.70	135	2.2
ZZ40875		0.019	0.15	1.57	44	0.12	10.75	159	2.7
ZZ40876		0.009	0.08	0.63	25	0.10	2.75	87	0.5
ZZ40877		0.005	0.11	0.49	31	0.07	2.27	64	0.5
ZZ40878		0.010	0.06	0.86	29	0.13	2.95	49	<0.5
ZZ40879		0.010	0.08	1.23	25	0.10	5.60	107	1.1
ZZ40880		0.013	0.25	1.11	51	0.11	13.65	166	3.8
ZZ40881		<0.005	0.28	4.29	108	0.07	17.05	256	2.0
ZZ40882		0.010	0.16	1.26	46	0.07	12.85	127	2.7
ZZ40883		0.006	0.24	1.65	53	0.05	16.05	146	3.9
ZZ40884		0.006	0.15	0.69	50	0.10	3.65	83	0.5
ZZ40885		0.007	0.14	1.88	47	0.10	11.70	103	1.3
ZZ40886		0.006	0.16	1.50	45	0.09	9.11	107	1.2
ZZ40887		0.007	0.11	0.66	55	0.12	1.62	40	<0.5
ZZ40888		0.006	0.13	0.99	45	0.12	6.36	104	0.6
ZZ40889		0.007	0.20	2.62	45	0.08	33.5	363	3.1
ZZ40890		0.005	0.31	3.35	63	0.07	42.3	285	1.8



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40891		0.06	0.002	0.36	0.85	28.1	<0.2	10	350	0.59	0.22	1.69	0.84	10.20	19.8	49
ZZ40892		0.11	0.002	0.45	0.70	9.2	<0.2	<10	360	1.10	0.16	0.28	0.98	21.1	25.8	39
ZZ40893		0.14	0.009	1.28	1.30	12.6	<0.2	<10	740	3.10	0.29	1.20	0.60	14.95	15.8	18
ZZ40894		0.18	0.004	0.89	0.58	23.6	<0.2	<10	270	1.46	0.31	0.62	1.33	14.05	21.3	19
ZZ40895		0.17	0.004	0.42	0.86	13.0	<0.2	<10	300	0.99	0.22	1.48	0.77	16.50	11.9	18
ZZ40896		0.16	0.003	0.36	1.33	20.0	<0.2	<10	330	0.95	0.26	0.80	0.57	23.9	15.0	25
ZZ40897		0.17	0.007	0.49	0.29	12.6	<0.2	<10	140	0.51	0.22	0.39	0.41	5.80	7.6	17
ZZ40898		0.17	0.007	0.38	0.81	17.7	<0.2	<10	410	0.65	0.26	1.25	1.19	9.43	6.5	29
ZZ40899		0.11	0.003	0.38	0.69	20.1	<0.2	<10	260	0.66	0.25	0.56	0.72	11.00	7.9	16
ZZ40900		0.15	0.004	0.34	0.82	21.0	<0.2	<10	320	0.78	0.22	2.09	1.20	13.25	10.5	16
ZZ40901		0.19	0.004	0.21	1.92	22.7	<0.2	<10	370	1.15	0.29	0.16	1.85	30.6	11.4	30
ZZ40902		0.17	0.005	0.36	1.05	20.1	<0.2	<10	570	0.62	0.31	0.20	0.44	15.50	10.6	21
ZZ40903		0.14	0.006	0.48	0.93	11.6	<0.2	<10	550	0.52	0.25	0.20	0.86	10.60	2.8	14
ZZ40904		0.14	0.002	0.43	1.51	23.3	<0.2	<10	150	0.63	0.28	0.05	0.34	19.10	13.3	25
ZZ40905		0.19	0.012	0.06	0.34	12.3	<0.2	<10	130	0.36	0.26	0.05	0.64	3.92	8.0	6
ZZ40906		0.16	0.002	0.10	0.66	12.9	<0.2	<10	140	0.23	0.21	0.02	0.22	10.20	5.2	10
ZZ40907		0.19	0.004	0.57	1.19	16.2	<0.2	<10	580	0.71	0.27	0.91	0.92	19.40	8.1	20
ZZ40908		0.20	0.003	0.38	0.98	16.0	<0.2	<10	540	0.60	0.24	0.56	0.92	19.40	11.5	17
ZZ40909		0.13	0.006	0.56	1.19	16.5	<0.2	<10	490	0.78	0.23	1.25	0.93	19.60	10.0	19
ZZ40910		0.12	0.012	0.34	1.55	17.1	<0.2	<10	430	0.84	0.27	0.74	0.56	21.1	13.1	26
ZZ40911		0.16	0.004	0.31	1.49	17.0	<0.2	<10	430	0.96	0.28	0.63	0.42	16.75	13.0	25
ZZ40912		0.20	0.003	0.16	1.23	13.8	<0.2	<10	280	0.73	0.25	0.41	0.43	15.40	14.1	23
ZZ40913		0.13	0.003	0.32	1.93	57.1	<0.2	<10	310	0.81	0.25	0.70	0.87	23.2	10.6	35
ZZ40914		0.14	0.004	0.96	3.65	41.5	<0.2	<10	450	2.24	0.30	1.01	0.75	59.9	13.4	62
ZZ40915		0.12	0.002	0.32	2.59	40.2	<0.2	<10	300	0.99	0.29	0.53	0.70	29.5	16.5	39
ZZ40916		0.10	0.002	0.10	1.65	24.9	<0.2	<10	190	0.53	0.29	0.69	0.95	25.7	10.1	24
ZZ40917		0.17	0.005	0.49	1.97	74.3	<0.2	<10	260	1.06	0.30	0.95	0.92	29.2	17.1	32
ZZ40918		0.14	0.004	0.19	1.01	55.5	<0.2	<10	230	0.74	0.27	1.92	0.75	14.10	10.1	18
ZZ40919		0.16	0.007	0.35	1.39	119.5	<0.2	<10	220	0.96	0.24	2.27	0.75	13.70	14.0	27
ZZ40920		0.11	0.003	0.65	1.32	973	<0.2	<10	230	1.20	0.28	1.37	1.27	17.85	14.3	25
ZZ40921		0.20	0.019	0.43	1.27	119.5	<0.2	<10	300	0.91	0.23	2.96	1.50	19.85	10.5	24
ZZ40922		0.17	0.014	0.39	1.03	134.0	<0.2	<10	470	0.71	0.20	1.87	0.69	18.25	9.0	20
ZZ40923		0.23	0.003	0.30	1.48	52.4	<0.2	<10	560	0.84	0.25	0.62	0.37	24.3	11.1	27
ZZ40924		0.25	0.002	0.33	1.42	27.1	<0.2	<10	600	0.81	0.24	1.21	0.63	19.80	11.1	24
ZZ40925		0.19	0.003	0.05	2.35	12.0	<0.2	<10	150	1.03	0.31	0.29	0.09	45.8	19.7	30
ZZ40926		0.10	0.005	0.27	1.78	26.7	<0.2	<10	330	0.84	0.26	1.62	0.69	21.8	10.5	26
ZZ40927		0.17	0.005	0.28	1.86	31.0	<0.2	<10	220	1.21	0.26	0.76	0.26	31.8	11.9	29
ZZ40928		0.19	0.004	0.37	1.47	32.4	<0.2	<10	320	0.83	0.25	1.33	0.40	24.2	11.3	24
ZZ40929		0.17	0.003	0.17	1.91	19.3	<0.2	<10	360	0.77	0.28	1.06	0.31	29.1	14.8	28
ZZ40930		0.23	0.003	0.14	2.25	13.5	<0.2	<10	170	1.01	0.29	0.53	0.18	36.2	17.6	30

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40891		0.81	26.6	4.14	2.78	<0.05	0.03	0.16	0.038	0.06	4.8	9.1	0.25	1900	3.65	0.02
ZZ40892		1.13	51.2	6.17	2.34	<0.05	<0.02	0.04	0.059	0.05	8.5	6.7	0.12	580	1.95	0.01
ZZ40893		6.59	48.0	3.53	2.97	<0.05	0.11	0.30	0.050	0.10	7.2	10.7	0.17	579	1.79	0.02
ZZ40894		2.09	87.0	4.97	1.92	0.05	0.06	0.27	0.044	0.06	6.8	7.4	0.23	446	8.78	0.01
ZZ40895		1.94	37.0	3.31	2.53	<0.05	0.05	0.13	0.044	0.08	8.2	10.6	0.27	340	2.34	0.01
ZZ40896		0.84	38.5	3.47	3.90	<0.05	0.06	0.16	0.046	0.08	11.5	18.6	0.44	465	2.52	0.01
ZZ40897		0.93	23.2	2.28	0.84	<0.05	0.03	0.14	0.040	0.03	2.9	2.1	0.05	150	7.12	0.01
ZZ40898		0.48	24.2	2.80	2.48	<0.05	0.05	0.17	0.043	0.05	4.8	7.4	0.16	235	11.40	0.01
ZZ40899		0.93	34.2	2.39	2.27	<0.05	0.05	0.22	0.032	0.06	5.4	8.6	0.18	391	10.30	0.01
ZZ40900		0.80	40.7	2.99	2.52	<0.05	0.05	0.23	0.038	0.08	6.1	12.5	0.98	583	6.76	0.01
ZZ40901		1.67	51.3	3.75	5.20	0.05	0.06	0.09	0.051	0.09	14.0	24.8	0.40	518	2.89	0.01
ZZ40902		1.27	55.1	3.34	3.32	<0.05	0.03	0.18	0.042	0.08	7.0	15.4	0.32	457	6.25	0.01
ZZ40903		1.07	41.1	1.65	3.11	<0.05	<0.02	0.21	0.028	0.08	5.0	5.9	0.12	68	3.49	0.01
ZZ40904		1.13	30.4	4.05	4.88	<0.05	0.04	0.07	0.040	0.08	8.7	21.4	0.35	388	3.35	0.01
ZZ40905		1.90	62.3	2.25	1.53	<0.05	<0.02	0.03	0.035	0.10	1.8	1.8	0.04	143	4.32	0.01
ZZ40906		0.94	27.0	1.94	3.36	<0.05	<0.02	0.01	0.024	0.07	5.1	2.7	0.07	115	4.98	0.01
ZZ40907		0.99	42.9	2.79	4.04	<0.05	0.03	0.13	0.038	0.10	8.3	14.6	0.29	353	3.04	0.01
ZZ40908		0.94	39.7	2.92	3.33	<0.05	0.03	0.15	0.048	0.09	7.5	13.5	0.32	1720	3.26	0.01
ZZ40909		1.06	48.5	3.09	3.20	<0.05	0.08	0.67	0.032	0.10	9.2	16.7	0.42	408	2.69	0.01
ZZ40910		1.11	37.5	3.40	4.76	<0.05	0.06	0.14	0.040	0.11	9.0	26.3	0.55	511	2.32	0.01
ZZ40911		1.42	40.6	3.47	4.50	<0.05	0.06	0.16	0.043	0.11	7.0	26.0	0.45	564	2.29	0.01
ZZ40912		1.45	32.1	3.50	3.75	<0.05	0.05	0.07	0.031	0.09	7.1	21.4	0.41	643	2.28	0.01
ZZ40913		1.13	22.4	3.65	5.07	<0.05	0.04	0.24	0.036	0.08	15.3	23.9	0.48	335	2.15	0.01
ZZ40914		1.71	33.3	4.28	6.15	0.07	0.11	0.71	0.055	0.10	26.4	24.9	0.52	374	5.09	0.01
ZZ40915		1.88	25.3	4.32	6.20	0.05	0.05	0.12	0.055	0.09	12.7	29.3	0.59	368	3.23	0.01
ZZ40916		1.26	15.0	3.03	5.62	<0.05	0.02	0.05	0.028	0.07	11.9	18.7	0.28	456	1.66	0.01
ZZ40917		2.10	65.6	4.36	5.32	0.06	0.07	0.54	0.039	0.15	19.5	27.4	0.67	563	2.93	0.01
ZZ40918		1.62	20.6	2.80	2.63	<0.05	0.04	0.18	0.030	0.10	7.3	10.1	0.21	385	1.33	0.01
ZZ40919		1.27	43.6	3.65	3.42	<0.05	0.06	0.29	0.037	0.10	11.0	12.5	0.28	434	2.62	0.01
ZZ40920		2.02	41.9	3.59	3.62	<0.05	0.04	0.88	0.040	0.11	12.1	15.4	0.35	422	2.41	0.01
ZZ40921		1.06	28.3	2.98	3.48	0.05	0.04	0.56	0.030	0.08	16.4	15.5	0.63	472	1.67	0.01
ZZ40922		0.86	28.4	2.80	3.09	<0.05	0.05	0.20	0.032	0.07	8.9	14.9	0.71	573	2.09	0.01
ZZ40923		0.89	37.0	3.41	4.36	<0.05	0.06	0.22	0.031	0.08	11.8	20.0	0.49	531	1.96	0.01
ZZ40924		0.76	42.1	3.19	4.06	<0.05	0.06	0.28	0.029	0.09	9.2	21.3	0.51	494	1.78	0.01
ZZ40925		1.14	65.5	4.70	6.28	0.06	0.13	0.10	0.034	0.16	20.8	50.5	0.97	577	0.59	0.01
ZZ40926		1.35	55.4	2.99	4.96	0.05	0.12	0.27	0.028	0.13	10.2	32.5	0.73	357	0.87	0.02
ZZ40927		0.80	57.2	3.86	4.64	0.05	0.09	0.26	0.039	0.06	17.0	30.3	0.83	276	1.52	0.01
ZZ40928		0.74	42.1	3.65	4.27	<0.05	0.09	0.35	0.035	0.06	12.6	26.9	1.02	287	1.55	0.01
ZZ40929		0.91	38.7	3.89	5.36	0.05	0.10	0.16	0.037	0.10	12.7	34.9	0.85	285	1.01	0.01
ZZ40930		1.27	70.8	4.58	6.25	<0.05	0.15	0.19	0.039	0.17	17.9	43.4	1.05	501	0.80	0.01

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ40891	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ40892	0.28	61.1	960	14.4	9.6	0.003	0.11	0.96	2.7	2.2	0.5	78.0	<0.01	0.08	0.8	
ZZ40893	0.16	52.5	1140	16.8	5.2	<0.001	0.01	1.43	9.0	1.6	0.4	60.1	<0.01	0.03	3.2	
ZZ40894	0.34	47.0	730	29.5	19.9	0.001	0.07	0.98	9.0	1.6	0.7	104.0	<0.01	0.07	2.0	
ZZ40895	0.17	65.2	690	27.2	7.0	0.001	0.03	2.78	8.0	2.1	0.5	64.4	<0.01	0.10	3.7	
ZZ40896	0.32	34.2	820	16.6	11.6	0.001	0.07	1.14	5.8	1.8	0.3	81.8	<0.01	0.04	1.5	
ZZ40897	0.47	41.3	820	20.3	7.1	<0.001	0.02	1.07	6.5	1.6	0.5	49.1	<0.01	0.06	3.6	
ZZ40898	0.14	50.8	550	14.6	3.3	0.002	0.02	2.83	6.8	0.9	0.5	45.2	<0.01	0.05	1.7	
ZZ40899	0.23	28.9	710	15.8	4.8	0.004	0.08	1.45	3.4	2.3	0.4	92.5	<0.01	0.10	1.1	
ZZ40900	0.19	29.8	570	16.9	6.2	0.003	0.03	1.71	4.5	1.9	0.6	48.3	<0.01	0.11	1.7	
ZZ40901	0.22	38.1	760	16.5	6.5	0.004	0.06	1.53	4.2	2.7	0.4	60.3	<0.01	0.05	1.9	
ZZ40902	0.73	38.5	610	19.0	15.4	0.001	0.02	0.94	5.5	1.5	0.7	20.8	<0.01	0.05	3.2	
ZZ40903	0.28	31.1	550	20.9	7.7	0.002	0.03	2.32	3.6	2.3	0.5	41.9	<0.01	0.07	3.3	
ZZ40904	0.28	14.5	740	16.5	9.7	0.001	0.04	0.79	2.5	2.3	0.5	25.7	<0.01	0.05	1.2	
ZZ40905	0.44	30.8	550	20.7	11.7	0.001	0.03	1.10	3.2	1.2	0.5	20.2	<0.01	0.04	2.8	
ZZ40906	0.21	36.8	510	18.0	9.1	0.002	0.01	2.60	2.7	2.2	0.5	7.0	<0.01	0.08	2.1	
ZZ40907	0.36	23.7	320	13.3	11.8	<0.001	0.02	1.76	1.8	1.3	0.5	16.7	<0.01	0.06	1.6	
ZZ40908	0.43	31.4	700	15.7	9.6	0.001	0.04	1.23	3.9	1.5	0.5	42.5	<0.01	0.05	2.3	
ZZ40909	0.31	34.9	670	17.3	8.4	0.002	0.04	1.52	3.9	2.7	0.4	35.9	<0.01	0.05	2.8	
ZZ40910	0.29	39.4	1140	14.6	8.4	0.001	0.06	1.49	4.9	2.0	0.5	55.5	<0.01	0.06	2.5	
ZZ40911	0.41	37.7	770	17.3	11.1	0.001	0.03	0.98	6.1	1.6	0.5	43.6	<0.01	0.06	3.5	
ZZ40912	0.37	41.1	790	17.9	12.3	0.001	0.05	0.99	5.9	1.7	0.6	39.2	<0.01	0.05	3.0	
ZZ40913	0.39	43.6	890	14.8	10.0	<0.001	0.02	1.06	4.2	1.4	0.5	24.3	<0.01	0.05	3.7	
ZZ40914	0.55	44.1	450	21.3	13.1	<0.001	0.03	0.70	4.8	1.6	0.5	24.0	<0.01	0.05	2.4	
ZZ40915	0.55	57.3	750	22.2	15.9	0.001	0.04	0.69	9.2	2.6	0.7	24.6	<0.01	0.06	4.1	
ZZ40916	0.95	46.5	840	39.8	14.7	0.001	0.03	0.92	4.8	1.5	0.7	22.5	<0.01	0.07	3.9	
ZZ40917	1.08	23.5	480	19.8	12.0	<0.001	0.03	0.70	2.8	0.5	0.6	16.8	<0.01	0.05	2.3	
ZZ40918	0.24	47.6	800	53.5	10.3	0.001	0.03	1.06	8.4	1.5	0.6	33.3	<0.01	0.08	4.2	
ZZ40919	0.33	33.1	570	18.8	8.1	0.001	0.07	0.61	3.1	2.5	0.5	34.0	<0.01	0.05	1.8	
ZZ40920	0.33	51.0	790	18.9	8.5	0.001	0.07	0.69	5.0	2.4	0.5	33.7	<0.01	0.06	1.5	
ZZ40921	0.35	52.2	940	37.4	8.8	0.001	0.05	1.15	5.3	2.6	0.5	38.2	<0.01	0.06	1.7	
ZZ40922	0.50	35.3	1040	21.5	8.1	0.001	0.04	0.86	4.5	1.9	0.4	38.1	<0.01	0.05	1.7	
ZZ40923	0.40	31.0	870	16.5	6.6	0.001	0.04	1.05	4.2	1.3	0.4	35.8	<0.01	0.05	1.6	
ZZ40924	0.61	35.4	620	18.9	7.7	<0.001	0.02	1.00	5.7	1.0	0.5	33.6	<0.01	0.04	3.8	
ZZ40925	0.48	33.5	820	18.9	7.7	0.001	0.04	1.01	4.9	1.4	0.4	46.8	<0.01	0.07	1.9	
ZZ40926	0.17	42.7	450	20.6	8.8	<0.001	0.01	0.43	8.1	1.1	0.3	27.4	<0.01	0.07	7.3	
ZZ40927	0.27	29.4	800	18.6	8.3	0.008	0.13	0.61	5.3	3.5	0.4	75.7	<0.01	0.06	3.0	
ZZ40928	0.33	38.7	400	20.6	7.9	<0.001	0.02	0.78	9.8	1.4	0.4	24.1	<0.01	0.08	4.9	
ZZ40929	0.30	34.0	590	25.4	6.3	<0.001	0.02	0.89	7.7	0.7	0.4	31.2	<0.01	0.06	3.9	
ZZ40930	0.37	33.4	750	18.8	7.7	<0.001	0.04	0.56	5.3	1.1	0.4	40.5	<0.01	0.08	3.4	
ZZ40930	0.18	40.0	620	18.9	8.9	<0.001	0.02	0.51	8.2	0.6	0.4	36.4	<0.01	0.05	5.5	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
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Project: ATAC- Regional

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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40891		<0.005	0.24	2.05	41	<0.05	7.63	122	1.2
ZZ40892		<0.005	0.18	0.64	83	<0.05	9.59	171	0.5
ZZ40893		<0.005	0.19	4.13	37	0.05	20.0	92	3.6
ZZ40894		<0.005	0.17	1.47	83	0.05	15.20	175	3.2
ZZ40895		<0.005	0.25	2.55	50	0.05	11.55	142	1.4
ZZ40896		0.008	0.18	1.10	54	0.09	12.90	137	1.8
ZZ40897		<0.005	0.43	0.70	70	0.05	9.68	127	1.2
ZZ40898		<0.005	0.30	2.54	65	0.07	12.80	111	1.6
ZZ40899		<0.005	0.46	1.40	57	0.07	10.55	87	1.6
ZZ40900		<0.005	0.29	1.47	43	0.05	10.25	140	1.6
ZZ40901		0.007	0.26	2.35	66	0.13	11.30	141	1.4
ZZ40902		<0.005	0.26	0.91	57	0.06	6.91	136	0.9
ZZ40903		<0.005	0.38	1.18	40	0.06	6.23	45	<0.5
ZZ40904		0.005	0.23	0.58	66	0.07	4.16	115	1.2
ZZ40905		<0.005	0.23	0.61	35	<0.05	2.47	212	<0.5
ZZ40906		0.005	0.35	0.43	65	0.07	2.25	138	<0.5
ZZ40907		0.005	0.28	1.23	60	0.09	11.60	121	0.7
ZZ40908		0.005	0.30	1.04	49	0.06	8.49	141	0.8
ZZ40909		<0.005	0.25	1.22	44	0.05	15.75	150	1.9
ZZ40910		0.005	0.23	1.18	53	0.11	9.88	139	1.8
ZZ40911		<0.005	0.20	1.41	45	0.06	10.85	139	1.5
ZZ40912		0.009	0.16	0.97	41	0.07	9.21	167	1.3
ZZ40913		0.006	0.24	1.52	61	0.12	18.95	154	1.2
ZZ40914		<0.005	0.31	2.53	73	0.15	26.6	96	2.5
ZZ40915		0.010	0.28	1.33	70	0.21	9.32	141	1.6
ZZ40916		0.021	0.15	0.88	60	0.27	7.09	113	0.7
ZZ40917		<0.005	0.31	1.31	55	0.08	29.3	187	2.2
ZZ40918		<0.005	0.42	1.38	30	0.07	15.30	91	1.2
ZZ40919		<0.005	0.31	2.09	45	0.08	29.8	156	1.4
ZZ40920		<0.005	0.56	1.65	48	0.36	28.9	215	1.3
ZZ40921		0.009	0.36	0.82	51	0.16	30.8	168	1.1
ZZ40922		0.006	0.27	1.28	50	0.08	13.15	158	1.1
ZZ40923		0.013	0.15	0.90	55	0.13	12.50	121	1.8
ZZ40924		0.008	0.15	2.35	50	0.22	11.65	139	1.6
ZZ40925		<0.005	0.08	0.56	42	<0.05	11.85	85	5.5
ZZ40926		0.005	0.16	3.90	44	0.05	10.90	151	3.3
ZZ40927		<0.005	0.19	2.17	54	0.06	22.8	117	2.6
ZZ40928		0.005	0.18	0.91	50	0.07	15.30	127	2.4
ZZ40929		0.007	0.11	1.02	49	0.08	8.61	90	2.5
ZZ40930		0.005	0.09	0.64	47	<0.05	12.40	90	4.9



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40931		0.23	0.003	0.13	2.09	13.5	<0.2	<10	170	0.95	0.29	0.52	0.26	33.7	17.6	30
ZZ40932		0.25	0.004	0.21	1.65	17.9	<0.2	<10	290	0.92	0.29	1.37	0.47	26.9	16.8	25
ZZ40933		0.26	0.003	0.38	1.48	15.9	<0.2	<10	720	0.84	0.26	0.75	1.83	25.1	15.9	26
ZZ40934		0.23	0.003	0.21	1.87	17.5	<0.2	<10	410	1.10	0.29	0.34	0.18	29.3	15.7	27
ZZ40935		0.26	0.003	0.36	1.84	19.0	<0.2	<10	380	1.11	0.30	0.36	0.46	32.2	18.1	28
ZZ40936		0.16	0.003	0.44	1.21	21.5	<0.2	<10	500	0.68	0.22	0.88	1.00	23.7	9.7	25
ZZ40937		0.17	0.003	0.71	1.02	30.9	<0.2	<10	360	0.93	0.19	0.91	0.78	19.20	7.1	24
ZZ40938		0.18	0.003	1.02	1.35	31.6	<0.2	<10	450	0.97	0.24	0.44	0.82	25.1	12.5	26
ZZ40939		0.22	0.003	0.28	1.80	19.5	<0.2	<10	400	0.90	0.30	0.82	0.37	28.3	16.7	25
ZZ40940		0.14	0.003	0.55	1.43	40.8	<0.2	<10	610	0.98	0.19	1.74	0.72	27.7	8.5	31
ZZ40941		0.16	0.001	0.18	1.42	19.4	<0.2	<10	960	0.77	0.19	0.12	0.47	8.94	6.2	39
ZZ40942		0.14	0.001	0.15	0.65	16.5	<0.2	<10	170	0.26	0.20	0.01	0.12	2.84	4.2	18
ZZ40943		0.10	0.009	0.87	0.79	11.1	<0.2	<10	2700	0.56	0.17	1.05	1.14	9.47	2.4	18
ZZ40944		0.17	0.004	1.13	0.77	15.8	<0.2	<10	1640	0.67	0.16	0.96	0.71	13.60	4.1	36
ZZ40945		0.16	0.010	2.60	0.52	18.7	<0.2	10	1650	0.69	0.17	1.00	0.88	8.99	4.6	22
ZZ40946		0.17	0.004	1.47	0.45	13.7	<0.2	<10	1080	0.60	0.18	0.88	0.60	4.32	6.0	16
ZZ40947		0.15	0.001	0.37	0.36	10.9	<0.2	<10	130	0.12	0.16	0.03	0.10	3.10	2.7	9
ZZ40948		0.20	0.010	1.12	1.08	58.5	<0.2	<10	1870	1.15	0.25	0.64	2.07	16.20	10.1	26
ZZ40949		0.17	0.005	0.91	0.93	22.3	<0.2	<10	1720	0.66	0.20	1.94	1.26	13.85	8.7	29
ZZ40950		0.18	0.006	1.49	0.96	29.1	<0.2	<10	1970	0.97	0.24	0.94	0.94	19.35	9.2	27
ZZ40951		0.19	0.005	0.47	1.31	36.5	<0.2	<10	830	0.86	0.25	0.75	1.78	21.0	16.0	24
ZZ40952		0.18	0.003	0.49	1.26	30.8	<0.2	<10	520	0.91	0.26	0.74	0.88	21.4	11.8	26
ZZ40953		0.18	0.004	0.51	1.58	41.7	<0.2	<10	410	1.27	0.32	0.32	1.63	27.5	18.6	29
ZZ40954		0.14	0.004	0.34	1.62	9.8	<0.2	<10	460	0.88	0.23	1.01	1.88	27.9	12.2	29
ZZ40955		0.15	0.001	0.33	1.10	11.7	<0.2	<10	260	0.38	0.26	0.25	0.52	24.0	5.4	20
ZZ40956		0.15	0.002	0.14	1.54	18.3	<0.2	<10	200	0.44	0.24	0.02	0.24	10.60	8.4	24
ZZ40957		0.19	0.005	0.11	1.99	30.3	<0.2	<10	280	1.51	0.30	0.13	0.30	42.9	19.4	31
ZZ40958		0.18	0.003	0.10	2.25	24.2	<0.2	<10	180	1.35	0.32	0.07	0.37	35.2	28.7	32
ZZ40959		0.18	0.003	0.11	1.71	11.0	<0.2	<10	330	0.61	0.24	0.71	0.16	22.2	9.7	26
ZZ40960		0.19	0.004	0.12	1.91	21.1	<0.2	<10	200	1.20	0.33	0.51	0.25	26.1	21.1	29
ZZ40961		0.15	0.003	0.13	1.80	16.3	<0.2	<10	190	1.05	0.30	0.76	0.29	25.3	16.7	28
ZZ40962		0.25	0.004	0.14	1.86	16.7	<0.2	<10	200	1.11	0.30	0.82	0.40	26.1	17.0	28
ZZ40963		0.18	0.003	0.19	1.87	13.8	<0.2	<10	270	1.01	0.28	0.84	0.44	28.1	14.2	28
ZZ40964		0.17	0.003	0.09	1.89	14.6	<0.2	<10	160	1.04	0.33	0.36	0.22	34.9	18.9	27
ZZ40965		0.18	0.003	0.12	1.62	15.5	<0.2	<10	140	0.89	0.28	0.43	0.30	31.4	14.4	25
ZZ40966		0.23	0.003	0.15	1.74	11.8	<0.2	<10	200	1.00	0.27	0.84	0.34	27.3	13.5	27
ZZ40967		0.23	0.004	0.17	1.84	11.8	<0.2	<10	190	1.04	0.27	0.68	0.33	30.9	18.6	27
ZZ40968		0.18	0.008	0.14	1.76	9.3	<0.2	<10	170	0.96	0.25	0.73	0.35	29.9	18.5	26
ZZ40969		0.22	0.002	0.31	1.44	21.0	<0.2	<10	150	1.07	0.25	0.81	0.96	23.8	12.2	23
ZZ40970		0.22	0.003	0.37	1.41	24.4	<0.2	<10	180	1.15	0.24	0.79	0.68	31.9	12.5	24

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40931		1.27	78.0	4.61	5.75	0.05	0.16	0.13	0.035	0.15	16.5	39.8	0.98	622	0.82	0.01
ZZ40932		1.64	80.3	3.89	4.99	0.05	0.09	0.19	0.031	0.10	12.0	32.3	1.03	480	1.54	0.01
ZZ40933		1.17	60.0	3.20	4.52	<0.05	0.10	0.18	0.031	0.10	11.7	27.3	0.72	262	2.96	0.01
ZZ40934		1.12	66.4	4.23	5.61	<0.05	0.08	0.12	0.039	0.10	12.1	30.7	0.76	454	1.78	0.01
ZZ40935		1.47	72.0	4.46	5.43	0.05	0.11	0.12	0.039	0.12	13.2	33.9	0.79	745	2.04	0.01
ZZ40936		0.82	31.7	2.87	3.56	<0.05	0.04	0.27	0.030	0.07	15.9	17.6	0.45	414	1.73	0.01
ZZ40937		0.69	35.4	2.79	2.58	0.07	0.07	0.22	0.036	0.05	25.3	11.9	0.30	269	2.05	0.01
ZZ40938		0.89	43.4	3.40	3.41	<0.05	0.05	0.31	0.033	0.07	17.3	16.9	0.43	518	2.52	0.01
ZZ40939		1.81	63.2	4.02	5.22	0.05	0.15	0.25	0.031	0.16	14.4	36.7	0.79	561	1.21	0.01
ZZ40940		1.05	23.4	2.74	3.75	0.05	0.06	0.27	0.039	0.05	21.0	11.5	0.39	358	2.52	0.01
ZZ40941		1.11	23.4	2.89	3.21	<0.05	0.04	0.07	0.039	0.04	3.9	8.8	0.07	161	4.13	0.01
ZZ40942		0.74	29.4	2.27	1.91	<0.05	0.03	0.02	0.031	0.04	1.4	2.6	0.04	61	3.51	0.01
ZZ40943		0.89	23.9	1.34	3.19	<0.05	<0.02	0.07	0.021	0.05	4.8	2.8	0.05	40	2.26	0.01
ZZ40944		0.62	27.5	2.12	2.41	<0.05	0.03	0.12	0.027	0.04	9.4	4.5	0.08	218	2.87	<0.01
ZZ40945		0.94	43.0	2.08	1.56	<0.05	0.05	0.26	0.038	0.08	5.2	3.2	0.07	109	3.11	0.01
ZZ40946		0.59	56.0	2.36	1.24	<0.05	0.04	0.22	0.034	0.07	2.4	2.6	0.08	144	5.20	0.01
ZZ40947		0.65	29.5	1.27	2.26	<0.05	<0.02	0.01	0.019	0.06	1.6	0.9	0.02	33	7.79	0.01
ZZ40948		1.56	59.7	3.48	3.19	<0.05	0.09	0.59	0.040	0.12	9.5	12.8	0.30	364	6.78	0.01
ZZ40949		0.98	47.4	3.30	3.33	<0.05	0.03	0.16	0.027	0.08	6.9	12.1	0.34	319	5.55	0.01
ZZ40950		1.04	56.7	2.88	2.95	0.05	0.06	0.28	0.040	0.10	10.6	12.5	0.24	251	6.86	<0.01
ZZ40951		1.25	57.8	3.51	4.29	<0.05	0.06	0.25	0.037	0.10	9.1	21.6	0.52	1060	5.35	0.01
ZZ40952		1.30	48.5	3.49	4.09	<0.05	0.07	0.25	0.037	0.09	9.3	20.7	0.50	379	4.85	0.01
ZZ40953		1.66	77.5	4.27	4.80	0.05	0.05	0.35	0.043	0.10	12.4	23.3	0.57	889	4.91	0.01
ZZ40954		1.07	53.9	2.52	5.03	<0.05	0.06	0.21	0.036	0.07	13.1	23.7	0.67	236	1.46	0.01
ZZ40955		1.88	16.9	2.68	5.58	<0.05	<0.02	0.01	0.022	0.06	11.4	15.6	0.28	186	2.05	0.01
ZZ40956		1.70	41.9	3.33	5.23	<0.05	0.02	0.03	0.034	0.07	4.6	16.1	0.38	206	2.85	0.01
ZZ40957		1.78	77.7	4.60	5.22	0.06	0.05	0.11	0.047	0.09	16.4	22.8	0.59	882	2.39	0.01
ZZ40958		1.32	70.1	4.89	5.62	<0.05	0.04	0.07	0.049	0.07	12.2	30.6	0.72	1340	1.20	0.01
ZZ40959		1.23	27.9	3.28	6.11	<0.05	0.03	0.05	0.032	0.06	10.4	20.5	0.52	394	1.04	0.01
ZZ40960		1.36	78.3	4.76	5.65	<0.05	0.08	0.20	0.046	0.11	10.5	30.3	0.79	833	0.90	0.01
ZZ40961		1.05	63.7	4.25	5.42	<0.05	0.07	0.12	0.038	0.10	11.3	30.7	0.77	533	0.88	0.01
ZZ40962		1.21	71.2	4.28	5.49	<0.05	0.09	0.15	0.037	0.12	12.4	33.5	0.80	736	1.13	0.01
ZZ40963		1.06	65.9	3.77	5.64	0.05	0.06	0.17	0.037	0.10	13.9	32.8	0.72	489	0.88	0.01
ZZ40964		1.34	66.2	4.40	5.41	0.06	0.10	0.11	0.032	0.12	16.5	37.7	0.85	783	0.78	0.01
ZZ40965		1.23	57.4	3.88	4.87	0.05	0.09	0.12	0.030	0.10	14.4	33.2	0.76	521	0.91	0.01
ZZ40966		1.07	56.1	3.69	5.28	<0.05	0.09	0.14	0.037	0.10	13.1	34.6	0.74	601	0.76	0.01
ZZ40967		1.21	64.4	4.05	6.12	0.10	0.12	0.12	0.038	0.13	13.8	44.4	0.81	536	0.78	0.01
ZZ40968		1.11	61.3	3.62	5.89	0.09	0.13	0.11	0.033	0.12	12.9	43.0	0.78	712	0.76	0.01
ZZ40969		1.16	42.6	3.40	4.99	0.08	0.09	0.17	0.039	0.11	10.3	31.3	0.60	305	10.50	0.01
ZZ40970		1.05	40.2	3.20	4.98	0.07	0.06	0.25	0.037	0.11	14.9	22.6	0.47	406	6.38	0.01

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40931		0.18	38.1	730	19.8	7.4	<0.001	0.01	0.53	7.0	0.6	0.3	36.7	<0.01	0.09	5.8
ZZ40932		0.23	38.7	690	24.5	6.5	<0.001	0.06	0.75	7.7	2.6	0.3	53.2	<0.01	0.09	4.3
ZZ40933		0.30	56.6	800	21.7	8.4	0.004	0.05	1.00	6.8	2.8	0.4	41.8	<0.01	0.11	4.0
ZZ40934		0.19	40.5	240	21.8	8.5	<0.001	0.01	0.77	7.6	1.4	0.5	19.2	<0.01	0.09	4.4
ZZ40935		0.17	45.2	670	25.0	7.8	<0.001	0.01	0.92	7.5	1.2	0.4	26.1	<0.01	0.08	5.6
ZZ40936		0.55	32.2	640	16.6	7.4	0.001	0.03	0.87	4.7	1.8	0.4	28.2	<0.01	0.07	2.1
ZZ40937		0.17	33.8	730	18.1	6.0	0.001	0.03	0.92	7.3	2.7	0.3	29.3	<0.01	0.09	2.1
ZZ40938		0.23	40.0	470	23.4	7.2	0.001	0.02	0.98	6.3	1.9	0.4	19.8	<0.01	0.09	3.2
ZZ40939		0.15	50.4	700	20.6	8.7	0.001	0.01	0.71	6.7	1.2	0.3	45.7	<0.01	0.09	5.6
ZZ40940		0.47	34.3	350	20.8	8.1	0.001	0.02	1.02	7.2	2.4	0.5	33.8	<0.01	0.08	3.3
ZZ40941		0.49	39.5	260	13.1	8.7	0.001	0.02	1.08	2.4	1.9	0.5	15.1	<0.01	0.08	2.2
ZZ40942		0.21	35.7	330	12.6	7.6	0.003	0.01	1.28	2.1	1.7	0.4	6.6	<0.01	0.09	1.1
ZZ40943		0.33	25.4	490	11.3	7.4	0.001	0.03	0.79	1.7	2.1	0.6	53.5	<0.01	0.05	0.5
ZZ40944		0.32	36.1	980	10.3	5.1	0.001	0.05	1.00	4.0	2.6	0.5	57.7	<0.01	0.06	1.2
ZZ40945		0.17	63.9	1800	9.7	7.4	0.003	0.05	1.83	6.3	5.1	0.4	88.5	<0.01	0.16	2.9
ZZ40946		0.13	71.9	570	10.4	6.2	0.005	0.06	1.45	6.8	5.2	0.4	74.5	<0.01	0.08	1.4
ZZ40947		0.17	27.0	240	6.1	8.2	0.002	0.01	1.18	2.5	1.8	0.4	9.5	<0.01	0.07	0.6
ZZ40948		0.25	63.8	1010	22.8	9.2	0.003	0.08	2.67	8.4	3.5	0.6	59.9	<0.01	0.10	4.1
ZZ40949		0.32	64.0	690	13.5	7.5	0.003	0.10	1.66	5.2	4.1	0.5	167.5	<0.01	0.08	1.7
ZZ40950		0.27	53.2	1220	15.0	8.3	0.004	0.07	2.38	7.2	4.5	0.6	100.5	<0.01	0.14	3.1
ZZ40951		0.27	46.8	870	18.0	8.0	0.005	0.05	1.91	5.8	6.6	0.4	47.8	<0.01	0.09	3.1
ZZ40952		0.29	41.1	1050	17.6	8.0	0.003	0.04	1.82	6.1	2.5	0.5	47.0	<0.01	0.10	3.4
ZZ40953		0.22	56.2	520	25.1	8.5	0.001	0.03	2.17	9.4	2.5	0.5	28.6	<0.01	0.08	5.4
ZZ40954		0.76	39.7	810	15.2	7.4	0.007	0.22	1.06	6.9	6.3	0.5	44.0	<0.01	0.09	3.9
ZZ40955		1.20	16.0	310	14.6	12.9	<0.001	0.01	0.80	2.2	0.5	0.7	19.0	<0.01	0.06	2.6
ZZ40956		0.32	26.4	240	13.0	14.4	<0.001	0.01	1.45	3.2	0.9	0.6	6.7	<0.01	0.10	1.9
ZZ40957		0.26	44.5	600	21.4	10.3	<0.001	0.01	1.53	9.3	1.8	0.6	14.7	<0.01	0.10	6.0
ZZ40958		0.28	42.3	400	24.7	10.1	<0.001	0.01	0.64	6.7	0.8	0.5	9.4	<0.01	0.07	4.9
ZZ40959		0.79	21.9	440	12.6	9.1	<0.001	0.02	0.38	4.3	1.1	0.6	38.6	<0.01	0.06	2.5
ZZ40960		0.33	39.2	620	21.7	8.7	<0.001	0.02	0.52	9.7	1.3	0.6	33.1	<0.01	0.08	4.5
ZZ40961		0.44	34.8	530	19.2	7.8	<0.001	0.03	0.53	8.5	1.1	0.5	40.0	<0.01	0.09	3.4
ZZ40962		0.40	38.2	660	18.8	8.3	<0.001	0.03	0.65	8.5	1.9	0.5	44.2	<0.01	0.07	3.7
ZZ40963		0.47	34.0	700	15.6	9.4	0.001	0.04	0.63	6.6	1.5	0.4	44.8	<0.01	0.07	2.1
ZZ40964		0.21	37.8	720	21.1	7.9	<0.001	0.02	0.51	7.2	0.9	0.3	32.9	<0.01	0.09	5.7
ZZ40965		0.28	33.7	520	17.6	7.0	0.001	0.02	0.52	7.1	0.9	0.3	30.0	<0.01	0.06	4.8
ZZ40966		0.39	32.5	680	15.6	8.8	<0.001	0.04	0.51	6.8	1.4	0.4	45.0	<0.01	0.08	2.7
ZZ40967		0.27	37.3	730	16.6	7.9	<0.001	0.02	0.58	7.4	1.0	0.5	43.6	<0.01	0.07	4.2
ZZ40968		0.21	36.7	650	15.0	7.5	0.001	0.03	0.52	6.8	1.1	0.4	45.4	<0.01	0.07	3.9
ZZ40969		0.32	67.3	490	14.7	9.3	0.004	0.04	1.29	6.3	2.3	0.6	41.8	<0.01	0.06	3.3
ZZ40970		0.64	36.7	640	17.2	9.5	0.001	0.03	1.18	5.3	1.3	0.7	40.3	<0.01	0.05	2.6

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40931		0.005	0.08	0.73	46	<0.05	9.98	94	5.7
ZZ40932		0.006	0.11	1.00	44	0.16	11.85	108	3.4
ZZ40933		0.006	0.16	1.32	51	0.05	13.80	177	3.4
ZZ40934		<0.005	0.13	0.64	50	<0.05	10.05	109	2.7
ZZ40935		<0.005	0.17	0.95	49	<0.05	11.05	131	4.5
ZZ40936		0.016	0.14	0.99	48	0.15	19.15	136	1.2
ZZ40937		<0.005	0.15	1.39	42	0.05	44.1	123	1.7
ZZ40938		<0.005	0.17	1.38	50	0.05	23.2	124	1.5
ZZ40939		<0.005	0.17	0.76	38	<0.05	12.25	104	7.0
ZZ40940		0.006	0.18	1.05	64	0.12	32.6	116	1.7
ZZ40941		0.005	0.19	0.79	83	0.09	4.27	116	2.2
ZZ40942		<0.005	0.15	0.51	49	<0.05	2.53	136	1.4
ZZ40943		0.009	0.12	1.92	54	0.08	5.47	70	<0.5
ZZ40944		0.006	0.14	1.90	76	0.06	22.2	120	1.0
ZZ40945		<0.005	0.17	2.40	57	<0.05	25.2	189	1.8
ZZ40946		<0.005	0.15	3.09	43	<0.05	21.6	185	2.2
ZZ40947		<0.005	0.11	0.33	54	0.05	1.99	105	<0.5
ZZ40948		<0.005	0.43	1.69	114	0.08	20.6	262	3.2
ZZ40949		0.006	0.16	1.93	77	0.08	19.50	228	1.4
ZZ40950		<0.005	0.25	2.16	84	0.06	21.0	199	2.0
ZZ40951		0.005	0.26	2.92	73	0.06	10.40	194	1.9
ZZ40952		0.006	0.23	2.04	88	0.08	11.70	195	2.2
ZZ40953		0.005	0.36	1.51	99	0.06	18.65	202	1.8
ZZ40954		0.010	0.17	2.92	70	0.11	12.95	131	2.2
ZZ40955		0.029	0.15	0.54	61	0.24	3.00	80	<0.5
ZZ40956		<0.005	0.21	0.43	74	0.05	2.40	135	0.6
ZZ40957		0.005	0.25	1.35	61	0.06	14.70	113	1.6
ZZ40958		0.005	0.16	0.77	52	0.05	7.12	84	1.7
ZZ40959		0.015	0.10	0.94	57	0.17	4.95	65	0.8
ZZ40960		0.007	0.13	0.87	49	0.08	10.95	92	2.6
ZZ40961		0.010	0.10	0.93	48	0.06	10.65	86	2.0
ZZ40962		0.009	0.13	1.08	51	0.05	12.00	100	2.7
ZZ40963		0.011	0.10	2.59	45	0.07	12.65	84	1.9
ZZ40964		0.007	0.10	0.92	41	<0.05	11.75	87	4.1
ZZ40965		0.008	0.12	0.88	40	0.06	11.85	95	3.2
ZZ40966		0.008	0.10	1.72	40	0.06	12.45	101	2.2
ZZ40967		0.007	0.09	0.82	41	0.06	13.20	105	4.7
ZZ40968		0.005	0.08	1.00	37	0.05	11.90	93	4.8
ZZ40969		0.006	0.29	2.93	48	0.06	10.35	467	3.0
ZZ40970		0.016	0.18	1.95	48	0.18	13.65	167	1.8



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40971		0.15	0.004	0.13	1.84	9.5	<0.2	<10	130	0.91	0.24	0.80	0.28	29.4	16.8	27
ZZ40972		0.17	0.004	0.12	2.03	13.9	<0.2	<10	160	0.95	0.24	0.56	0.50	30.7	22.9	33
ZZ40973		0.19	0.010	0.08	2.13	12.2	<0.2	<10	120	1.08	0.28	0.83	0.24	32.1	25.2	30
ZZ40974		0.26	0.016	0.10	2.19	12.7	<0.2	<10	130	1.12	0.29	0.90	0.23	35.0	25.8	30
ZZ40975		0.19	0.004	0.14	1.93	12.8	<0.2	<10	150	1.05	0.27	0.79	0.18	29.2	18.0	28
ZZ40976		0.24	0.004	0.09	2.03	10.5	<0.2	<10	140	1.11	0.27	0.60	0.17	34.8	21.3	28
ZZ40977		0.19	0.003	0.11	1.86	9.4	<0.2	<10	140	0.96	0.24	0.90	0.19	27.0	16.4	27
ZZ40978		0.18	0.004	0.09	1.67	13.8	<0.2	<10	110	0.87	0.26	0.64	0.25	28.6	19.4	25
ZZ40979		0.17	0.004	0.15	1.95	11.5	<0.2	<10	160	1.11	0.25	1.01	0.34	27.9	19.8	29
ZZ40980		0.20	0.003	0.11	1.85	14.5	<0.2	<10	120	0.96	0.26	0.49	0.23	31.7	21.1	28
ZZ40981		0.17	0.005	0.16	1.89	9.3	<0.2	<10	190	1.01	0.24	1.41	0.28	25.0	17.3	29
ZZ40982		0.15	0.003	0.14	1.75	60.3	<0.2	<10	170	1.13	0.27	0.91	0.39	25.7	19.1	27
ZZ40983		0.16	0.008	0.10	2.20	15.6	<0.2	<10	350	1.32	0.25	0.47	0.19	29.6	15.8	34
ZZ40984		0.17	0.002	0.08	2.24	12.6	<0.2	<10	250	0.91	0.26	0.13	0.14	32.9	12.8	29
ZZ40985		0.14	0.011	0.11	2.42	15.2	<0.2	<10	170	1.23	0.25	0.07	0.32	42.4	29.9	37
ZZ40986		0.17	0.006	0.25	1.54	14.6	<0.2	<10	190	0.85	0.21	0.52	0.20	25.8	15.6	26
ZZ40987		0.13	0.009	0.10	1.93	15.4	<0.2	<10	150	1.76	0.37	0.34	0.32	32.8	25.2	28
ZZ40988		0.16	0.004	0.05	1.70	16.1	<0.2	<10	50	0.65	0.35	0.02	0.16	26.6	21.6	30
ZZ40989		0.15	0.003	0.06	2.06	7.4	<0.2	<10	180	0.81	0.23	0.29	0.20	29.4	17.6	32
ZZ40990		0.14	0.001	0.06	1.42	104.0	<0.2	<10	180	0.52	0.25	0.41	0.18	23.4	7.8	24
ZZ40991		0.15	0.004	0.13	1.98	96.7	<0.2	<10	200	1.30	0.30	0.56	0.13	26.1	16.8	29
ZZ40992		0.19	0.002	0.04	1.78	10.7	<0.2	<10	180	0.69	0.19	0.44	0.08	21.8	9.3	23
ZZ40993		0.14	0.002	0.12	2.08	14.9	<0.2	<10	160	1.23	0.27	0.12	0.23	32.7	17.1	25
ZZ40994		0.21	0.006	0.26	0.82	22.5	<0.2	<10	270	1.35	0.28	0.72	0.40	14.10	14.6	16
ZZ40995		0.15	0.002	0.17	1.15	23.3	<0.2	<10	430	0.98	0.24	0.93	0.62	18.80	12.6	21
ZZ40996		0.18	0.003	0.64	0.89	25.0	<0.2	<10	400	1.11	0.23	1.16	1.72	11.95	11.2	18
ZZ40997		0.20	0.002	0.44	0.97	24.4	<0.2	<10	440	1.10	0.23	1.07	1.44	23.3	17.1	25
ZZ40998		0.23	0.003	0.72	0.83	27.9	<0.2	<10	350	1.11	0.21	2.30	2.41	21.7	18.6	24
ZZ40999		0.24	0.004	1.01	0.85	42.5	<0.2	<10	400	1.08	0.18	1.12	5.50	15.15	10.2	33
ZZ41000		0.21	0.004	0.77	0.66	25.4	<0.2	<10	330	0.99	0.18	2.13	6.15	13.75	13.9	25



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Project: ATAC- Regional

**CERTIFICATE OF ANALYSIS WH12194520**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ40971		0.96	48.7	3.88	6.19	0.09	0.11	0.11	0.034	0.10	12.7	46.8	0.89	486	3.11	0.01
ZZ40972		0.84	57.9	5.55	7.30	0.10	0.11	0.18	0.042	0.08	12.6	50.5	1.10	919	4.78	0.01
ZZ40973		1.39	87.4	4.86	7.21	0.10	0.18	0.18	0.039	0.13	13.7	51.7	1.20	777	0.78	0.01
ZZ40974		1.48	82.7	4.91	7.11	0.11	0.21	0.13	0.038	0.16	15.1	53.9	1.10	874	0.87	0.01
ZZ40975		0.96	70.5	4.31	6.39	0.10	0.11	0.13	0.035	0.11	13.5	43.6	0.88	571	0.89	0.01
ZZ40976		1.08	74.8	4.38	6.83	0.10	0.14	0.11	0.035	0.12	15.4	48.8	0.97	571	0.72	0.01
ZZ40977		0.88	55.9	3.85	6.27	0.08	0.10	0.11	0.036	0.10	11.8	45.0	0.88	263	1.84	0.01
ZZ40978		0.86	66.2	4.21	5.92	0.10	0.10	0.07	0.035	0.07	12.0	42.4	0.94	894	1.80	0.01
ZZ40979		1.14	90.8	4.23	6.52	0.09	0.11	0.16	0.040	0.11	12.3	43.4	0.90	677	2.24	0.01
ZZ40980		0.99	70.6	4.55	6.51	0.10	0.10	0.08	0.037	0.08	13.4	43.9	1.00	702	1.75	0.01
ZZ40981		0.74	79.6	4.25	6.49	0.08	0.09	0.14	0.040	0.07	11.1	40.6	0.97	897	1.62	0.01
ZZ40982		1.85	61.0	4.24	6.13	0.10	0.10	0.20	0.040	0.11	11.2	40.0	0.88	807	0.96	0.01
ZZ40983		29.9	101.0	3.81	7.14	0.09	0.05	0.07	0.048	0.08	13.4	48.2	0.77	722	1.03	0.01
ZZ40984		2.79	20.2	3.34	6.98	0.06	0.08	0.04	0.040	0.05	13.5	22.8	0.48	311	1.51	0.01
ZZ40985		17.55	117.0	5.81	8.12	0.11	0.07	0.11	0.066	0.06	13.0	53.8	1.11	1360	0.76	0.01
ZZ40986		11.15	61.6	3.98	5.33	0.10	0.06	0.17	0.036	0.05	11.5	35.0	0.83	466	0.86	0.01
ZZ40987		17.85	77.6	4.86	6.48	0.10	0.07	0.06	0.053	0.08	10.0	38.4	0.91	541	1.03	0.01
ZZ40988		13.50	56.1	6.07	9.00	0.09	0.07	0.05	0.052	0.06	10.1	29.4	0.56	698	1.25	0.01
ZZ40989		6.62	41.9	3.53	7.69	0.07	0.03	0.05	0.050	0.06	12.1	36.1	0.78	520	0.86	0.01
ZZ40990		3.28	22.4	3.39	6.98	0.06	0.03	0.04	0.030	0.07	11.0	33.9	0.38	241	1.30	0.01
ZZ40991		3.66	62.1	4.70	6.86	0.10	0.11	0.21	0.045	0.12	11.8	40.1	0.79	524	0.90	0.01
ZZ40992		2.19	32.3	3.43	5.95	0.06	0.04	0.04	0.030	0.04	9.4	45.9	0.66	139	0.74	0.01
ZZ40993		1.80	19.8	3.75	6.65	0.07	0.07	0.08	0.039	0.04	12.4	38.7	0.37	465	1.36	0.01
ZZ40994		1.19	39.8	3.30	2.85	0.06	0.06	0.27	0.039	0.08	6.6	9.8	0.30	531	2.30	0.01
ZZ40995		0.63	27.7	3.28	4.37	0.06	0.05	0.21	0.035	0.07	8.6	16.0	0.41	453	2.07	0.01
ZZ40996		0.58	41.4	2.97	3.07	0.05	0.06	0.27	0.039	0.07	6.2	10.4	0.28	341	7.48	0.01
ZZ40997		0.86	46.4	4.03	3.47	0.08	0.07	0.29	0.043	0.08	10.3	12.7	0.39	504	4.36	0.01
ZZ40998		1.13	56.0	4.23	3.08	0.09	0.07	0.36	0.047	0.09	9.8	9.9	0.69	539	8.56	0.01
ZZ40999		1.02	63.7	2.75	3.21	0.08	0.07	0.30	0.039	0.08	9.1	9.7	0.24	368	26.0	0.01
ZZ41000		0.92	50.6	2.83	2.48	0.07	0.06	0.30	0.037	0.08	6.9	8.3	0.64	927	12.45	0.01

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**CERTIFICATE OF ANALYSIS WH12194520**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40971		0.19	37.2	710	14.4	6.4	0.002	0.04	0.48	6.3	1.4	0.4	47.9	<0.01	0.07	3.7
ZZ40972		0.26	46.0	690	15.9	7.9	0.003	0.04	0.39	7.9	1.4	0.5	37.1	<0.01	0.09	3.8
ZZ40973		0.10	42.1	710	17.6	6.7	0.001	0.01	0.49	8.4	0.7	0.4	48.0	<0.01	0.08	5.4
ZZ40974		0.10	42.8	660	18.5	8.0	<0.001	0.01	0.45	8.0	0.6	0.4	54.6	<0.01	0.08	6.0
ZZ40975		0.26	36.0	450	16.0	7.1	<0.001	0.03	0.52	7.1	1.0	0.4	45.1	<0.01	0.07	3.3
ZZ40976		0.18	38.5	530	17.4	7.2	<0.001	0.02	0.45	7.7	0.8	0.4	40.3	<0.01	0.07	4.8
ZZ40977		0.24	33.5	570	14.8	7.4	0.003	0.05	0.44	6.6	1.8	0.4	47.3	<0.01	0.08	2.7
ZZ40978		0.15	35.6	550	15.4	5.4	0.001	0.03	0.44	6.6	1.0	0.3	41.7	<0.01	0.09	3.4
ZZ40979		0.27	39.3	670	15.0	8.4	<0.001	0.04	0.55	8.1	1.2	0.4	53.7	<0.01	0.08	2.3
ZZ40980		0.22	38.8	470	16.9	6.4	<0.001	0.02	0.53	7.4	0.9	0.4	30.5	<0.01	0.09	3.9
ZZ40981		0.29	34.2	680	13.9	6.5	0.002	0.09	0.51	7.7	2.0	0.5	66.2	<0.01	0.09	1.9
ZZ40982		0.24	36.3	680	17.0	10.4	0.001	0.05	0.39	7.9	1.5	0.5	50.5	<0.01	0.08	3.1
ZZ40983		0.80	34.6	590	11.7	9.0	<0.001	0.02	0.56	8.9	1.2	0.7	32.9	<0.01	0.09	2.2
ZZ40984		1.23	31.0	310	14.8	10.8	<0.001	0.01	0.68	3.7	0.6	0.8	12.3	0.01	0.05	4.7
ZZ40985		0.21	40.5	310	14.3	9.3	<0.001	0.01	1.60	12.1	0.8	0.5	6.7	<0.01	0.13	4.4
ZZ40986		0.41	34.6	800	15.3	5.6	<0.001	0.02	1.15	7.8	1.1	0.4	30.2	<0.01	0.08	2.7
ZZ40987		0.30	40.7	650	19.7	8.4	<0.001	0.02	0.45	5.6	0.9	0.6	15.8	<0.01	0.22	3.4
ZZ40988		0.50	25.0	730	15.3	9.7	<0.001	0.01	0.56	4.3	0.7	0.8	4.3	<0.01	0.17	3.0
ZZ40989		0.79	26.8	540	9.0	9.2	<0.001	0.02	0.35	6.0	0.6	0.8	14.3	<0.01	0.06	2.7
ZZ40990		1.00	15.4	200	13.8	14.9	<0.001	0.01	0.47	3.0	0.5	0.8	28.2	<0.01	0.06	2.7
ZZ40991		0.27	34.1	780	19.8	14.0	<0.001	0.04	0.36	8.4	1.6	0.6	37.2	<0.01	0.08	3.0
ZZ40992		0.24	24.7	480	11.1	7.4	<0.001	0.02	0.37	3.3	0.5	0.5	27.2	<0.01	0.05	2.4
ZZ40993		1.03	28.6	410	16.8	10.2	<0.001	0.01	0.58	3.7	0.6	0.8	11.6	0.01	0.06	4.6
ZZ40994		0.27	35.8	320	20.6	7.3	0.001	0.03	0.96	5.7	1.3	0.5	28.0	<0.01	0.26	2.6
ZZ40995		0.54	32.8	560	20.5	7.9	<0.001	0.03	0.87	4.7	1.2	0.6	30.8	<0.01	0.05	2.5
ZZ40996		0.34	41.9	530	17.3	5.9	0.002	0.04	3.42	5.1	3.1	0.6	37.6	<0.01	0.07	1.6
ZZ40997		0.44	51.9	1050	20.6	6.8	0.001	0.03	1.71	7.3	2.0	0.7	47.4	<0.01	0.06	3.7
ZZ40998		0.30	74.9	1330	18.7	6.8	0.003	0.04	2.43	7.8	4.2	0.7	100.0	0.01	0.07	3.6
ZZ40999		0.33	99.6	1050	14.5	6.6	0.005	0.04	6.19	5.7	3.7	0.7	93.3	0.01	0.09	2.1
ZZ41000		0.28	107.5	1080	14.3	6.9	0.009	0.06	3.60	5.5	4.2	0.6	109.0	0.01	0.07	1.8

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**CERTIFICATE OF ANALYSIS WH12194520**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40971		0.006	0.07	1.49	39	0.05	9.92	117	4.0
ZZ40972		0.007	0.10	1.41	53	0.05	11.65	145	3.7
ZZ40973		0.006	0.08	0.44	47	<0.05	11.05	91	9.4
ZZ40974		0.005	0.09	0.47	45	<0.05	10.75	95	10.9
ZZ40975		0.007	0.07	1.12	42	0.06	12.10	80	3.8
ZZ40976		0.005	0.07	0.76	43	0.05	12.40	84	5.9
ZZ40977		0.006	0.07	2.60	43	0.05	10.80	88	3.2
ZZ40978		0.005	0.07	1.26	40	<0.05	9.70	86	3.4
ZZ40979		0.007	0.08	2.88	44	0.06	14.25	104	3.0
ZZ40980		0.008	0.08	1.10	46	0.05	9.93	88	3.4
ZZ40981		0.007	0.06	2.50	48	0.05	13.25	78	2.6
ZZ40982		0.005	0.22	1.23	41	0.07	12.35	118	3.4
ZZ40983		0.024	0.10	1.06	56	0.14	14.20	70	1.2
ZZ40984		0.030	0.14	0.68	58	0.26	4.59	57	3.4
ZZ40985		0.006	0.11	0.41	63	0.05	8.07	80	3.0
ZZ40986		0.016	0.06	0.70	44	0.09	11.25	72	1.8
ZZ40987		0.007	0.09	0.56	40	0.07	9.33	77	1.8
ZZ40988		0.011	0.10	0.34	72	0.08	2.66	71	2.9
ZZ40989		0.019	0.12	0.51	65	0.16	6.33	76	0.8
ZZ40990		0.021	0.25	0.80	56	0.20	2.94	81	1.0
ZZ40991		0.005	0.31	1.33	45	0.06	13.20	119	3.2
ZZ40992		<0.005	0.07	0.81	37	0.05	4.21	51	1.5
ZZ40993		0.022	0.14	0.73	50	0.25	5.50	61	2.8
ZZ40994		<0.005	0.15	0.92	35	0.05	10.70	119	1.8
ZZ40995		0.008	0.16	1.13	44	0.14	10.00	136	1.5
ZZ40996		<0.005	0.23	1.96	54	0.07	11.50	246	2.0
ZZ40997		0.007	0.21	1.04	62	0.10	13.75	200	2.2
ZZ40998		<0.005	0.26	1.50	87	0.07	17.70	279	3.3
ZZ40999		0.005	0.31	2.83	184	0.17	24.7	426	2.5
ZZ41000		<0.005	0.45	2.94	123	0.12	19.60	513	2.0



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**CERTIFICATE OF ANALYSIS WH12194520**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12194521**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 140 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36721		0.12	0.012	0.25	0.81	168.0	<0.2	<10	280	0.74	0.14	3.83	3.55	14.10	7.8	18
ZZ36722		0.16	0.002	0.19	0.54	11.1	<0.2	<10	130	0.26	0.10	3.54	3.60	7.12	3.0	11
ZZ36723		0.27	0.003	0.34	1.37	17.3	<0.2	<10	500	0.70	0.41	1.06	0.51	25.7	9.3	26
ZZ36724		0.22	0.001	0.18	1.25	32.3	<0.2	<10	310	0.55	0.22	1.74	0.38	15.25	8.8	20
ZZ36725		0.32	0.004	0.65	1.12	27.1	<0.2	<10	610	0.67	0.18	1.14	0.41	18.75	9.8	24
ZZ36726		0.29	0.005	0.48	1.56	18.6	<0.2	<10	480	0.69	0.21	0.82	0.40	24.4	11.9	28
ZZ36727		0.20	0.005	0.11	1.67	14.8	<0.2	<10	310	0.61	0.21	0.79	0.31	20.9	14.0	25
ZZ36728		0.25	0.004	0.06	2.02	16.0	<0.2	<10	140	0.94	0.26	0.35	0.19	33.7	22.0	31
ZZ36729		0.17	0.008	0.58	1.25	18.2	<0.2	<10	430	0.88	0.20	2.12	0.83	15.85	11.1	19
ZZ36730		0.17	0.005	0.36	1.23	16.6	<0.2	<10	350	0.67	0.17	1.42	1.56	15.65	9.7	19
ZZ36731		0.22	0.003	0.10	1.76	13.7	<0.2	<10	340	0.58	0.23	0.24	0.20	30.0	9.6	28
ZZ36732		0.27	0.003	0.09	2.20	13.7	<0.2	<10	200	0.76	0.24	0.11	0.28	31.8	10.4	29
ZZ36733		0.23	0.003	0.16	1.95	16.1	<0.2	<10	200	0.78	0.23	0.08	0.34	22.1	9.9	30
ZZ36734		0.19	0.002	0.19	1.35	16.2	<0.2	<10	350	0.87	0.19	0.15	0.41	12.45	10.5	22
ZZ36735		0.25	0.002	0.31	1.19	17.9	<0.2	<10	390	0.85	0.20	0.31	0.92	15.15	13.9	22
ZZ36736		0.25	0.009	0.20	1.21	21.1	<0.2	<10	320	0.89	0.18	0.22	0.96	15.65	15.9	23
ZZ36737		0.24	0.003	0.17	1.29	14.7	<0.2	<10	520	0.65	0.22	0.54	0.90	19.45	11.1	21
ZZ36738		0.27	0.005	0.33	1.23	19.5	<0.2	<10	440	0.87	0.21	0.51	0.62	15.20	14.5	24
ZZ36739		0.19	0.004	0.37	1.19	17.3	<0.2	<10	640	0.86	0.20	0.76	1.16	16.05	15.5	23
ZZ36740		0.21	0.003	0.12	2.55	12.7	<0.2	<10	230	1.33	0.26	0.42	0.41	34.7	15.4	30
ZZ36741		0.22	0.003	0.07	1.57	11.2	<0.2	<10	130	0.61	0.22	0.14	0.15	24.8	7.1	22
ZZ36742		0.24	0.002	0.05	1.75	10.8	<0.2	<10	200	0.48	0.25	0.26	0.17	25.2	9.6	24
ZZ36743		0.24	0.004	0.17	1.95	12.9	<0.2	<10	170	0.90	0.22	0.59	0.20	27.9	13.9	29
ZZ36744		0.25	0.014	0.25	1.61	11.5	<0.2	<10	260	0.95	0.20	2.12	0.26	21.3	11.5	24
ZZ36745		0.25	0.004	0.06	1.85	17.8	<0.2	<10	180	0.60	0.26	0.13	0.14	26.3	12.0	29
ZZ36746		0.22	0.002	0.04	1.32	9.9	<0.2	<10	110	0.29	0.21	0.11	0.13	27.4	5.7	20
ZZ36747		0.23	0.003	0.04	2.04	9.7	<0.2	<10	150	0.61	0.20	0.06	0.14	29.2	9.8	26
ZZ36748		0.25	0.004	0.23	1.44	8.6	<0.2	<10	250	0.93	0.25	0.84	0.18	21.9	11.0	22
ZZ36749		0.28	0.006	0.12	1.79	19.5	<0.2	<10	80	0.92	0.30	0.10	0.30	30.9	17.9	25
ZZ36750		0.18	0.006	0.14	0.80	6.5	<0.2	10	150	0.56	0.12	3.46	0.41	10.75	6.4	11
ZZ36751		0.11	0.003	0.19	1.02	5.7	<0.2	10	230	0.79	0.16	3.27	0.23	10.30	7.8	15
ZZ36752		0.23	0.004	0.15	1.22	28.0	<0.2	<10	200	0.76	0.22	0.84	0.38	21.6	15.6	20
ZZ36753		0.28	0.002	0.52	0.70	32.9	<0.2	<10	290	0.48	0.10	9.76	0.61	21.6	6.2	11
ZZ36754		0.22	0.004	0.30	1.34	19.8	<0.2	<10	760	0.53	0.18	1.31	1.11	21.3	8.9	24
ZZ36755		0.32	0.004	0.25	1.09	35.8	<0.2	<10	380	0.86	0.21	0.72	0.75	28.2	10.9	23
ZZ36756		0.24	0.004	0.33	1.40	18.4	<0.2	<10	650	0.84	0.22	0.87	3.55	22.5	10.9	28
ZZ36757		0.29	0.004	0.29	1.48	95.8	<0.2	<10	910	0.74	0.20	0.92	1.23	20.8	13.2	26
ZZ36758		0.25	0.003	0.14	1.83	19.1	<0.2	<10	330	0.68	0.23	0.10	0.39	24.1	13.1	27
ZZ36759		0.18	0.004	0.24	1.35	173.5	<0.2	<10	640	0.74	0.28	1.06	1.49	19.40	10.0	25
ZZ36760		0.18	0.005	0.45	1.64	61.7	<0.2	<10	570	0.59	0.28	1.21	0.95	20.3	7.6	38





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 Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36721		0.84	17.0	1.71	2.35	0.06	0.04	0.13	0.023	0.03	16.7	2.6	0.04	586	1.81	0.01
ZZ36722		0.52	7.6	0.74	1.93	<0.05	0.02	0.09	0.013	0.02	4.5	1.1	0.02	172	2.67	0.02
ZZ36723		1.05	32.0	2.74	4.78	0.05	0.04	0.14	0.035	0.06	12.8	15.8	0.38	354	1.25	0.02
ZZ36724		0.83	22.3	2.63	4.06	<0.05	0.04	0.08	0.026	0.04	6.3	17.9	0.35	402	1.70	0.02
ZZ36725		1.07	38.2	2.51	3.62	<0.05	0.04	0.24	0.031	0.06	9.0	15.7	0.38	302	2.17	0.02
ZZ36726		1.09	43.0	3.01	4.92	<0.05	0.07	0.22	0.033	0.07	11.5	22.9	0.63	249	1.51	0.02
ZZ36727		1.06	35.6	3.65	5.99	<0.05	0.04	0.05	0.041	0.05	8.9	29.1	0.58	380	1.30	0.02
ZZ36728		1.21	72.4	4.83	6.33	0.05	0.10	0.07	0.037	0.09	14.3	40.1	1.02	682	0.78	0.01
ZZ36729		1.89	85.5	3.11	3.85	0.06	0.08	0.35	0.040	0.09	10.7	20.1	0.43	371	1.65	0.02
ZZ36730		1.36	55.1	3.03	3.74	0.05	0.06	0.22	0.035	0.08	7.5	19.4	0.47	332	1.96	0.01
ZZ36731		1.59	9.6	3.09	6.31	<0.05	0.03	0.02	0.026	0.05	14.6	19.5	0.41	286	1.48	0.01
ZZ36732		1.50	14.2	3.27	6.76	0.05	0.07	0.03	0.034	0.05	14.3	21.6	0.31	388	1.45	0.01
ZZ36733		1.34	20.4	3.59	6.22	<0.05	0.05	0.04	0.036	0.06	11.0	26.5	0.35	262	1.64	0.01
ZZ36734		1.41	24.9	3.17	3.97	<0.05	0.03	0.06	0.037	0.06	5.7	17.3	0.32	346	3.38	0.02
ZZ36735		1.10	37.5	3.41	3.68	0.05	0.05	0.10	0.040	0.07	6.8	20.6	0.39	546	3.60	0.01
ZZ36736		1.13	31.3	3.54	3.60	<0.05	0.04	0.09	0.042	0.07	7.1	19.0	0.38	611	3.86	0.01
ZZ36737		0.98	37.1	3.38	5.76	<0.05	0.02	0.05	0.033	0.06	9.3	14.2	0.31	805	1.90	0.02
ZZ36738		0.97	44.3	3.59	3.77	0.05	0.06	0.15	0.041	0.07	7.2	20.4	0.42	527	3.24	0.02
ZZ36739		1.17	47.3	3.36	3.76	<0.05	0.07	0.13	0.042	0.07	7.6	21.0	0.44	575	2.96	0.02
ZZ36740		1.64	18.8	4.07	8.04	<0.05	0.03	0.04	0.046	0.04	14.4	24.5	0.39	893	1.08	0.01
ZZ36741		1.43	12.3	3.42	6.74	<0.05	0.03	<0.01	0.030	0.04	12.5	29.1	0.30	197	1.36	0.01
ZZ36742		1.62	14.8	3.92	7.08	<0.05	0.05	0.02	0.035	0.04	12.1	39.4	0.42	321	1.16	0.01
ZZ36743		1.12	66.3	4.40	5.86	0.05	0.09	0.10	0.043	0.07	13.3	41.3	0.88	468	0.58	0.01
ZZ36744		0.91	87.5	3.51	4.73	0.05	0.08	0.17	0.038	0.06	12.0	30.0	0.66	471	0.60	0.01
ZZ36745		1.31	27.6	4.88	6.53	<0.05	0.04	0.03	0.038	0.06	12.1	37.7	0.56	323	1.16	0.01
ZZ36746		1.08	13.0	3.01	6.51	<0.05	0.03	0.02	0.024	0.05	13.4	21.0	0.33	136	0.99	0.01
ZZ36747		1.51	19.7	3.75	7.23	<0.05	0.05	0.01	0.029	0.04	14.6	37.6	0.50	252	0.85	0.01
ZZ36748		0.92	45.4	3.27	4.37	<0.05	0.06	0.12	0.040	0.07	11.2	24.5	0.48	423	0.86	0.01
ZZ36749		1.78	36.8	4.98	5.51	<0.05	0.05	0.07	0.047	0.05	11.1	34.2	0.40	1160	0.98	0.01
ZZ36750		1.12	42.9	1.82	2.22	<0.05	0.06	0.12	0.019	0.04	6.1	12.1	0.33	336	0.48	0.01
ZZ36751		1.50	40.9	2.13	3.17	0.05	0.05	0.12	0.024	0.06	5.3	18.8	0.42	616	0.59	0.02
ZZ36752		1.35	41.8	3.46	3.70	0.05	0.08	0.16	0.032	0.06	9.3	37.7	0.84	423	0.96	0.01
ZZ36753		0.94	13.4	2.44	2.09	<0.05	0.06	1.06	0.015	0.04	11.6	6.7	5.77	1250	0.69	0.02
ZZ36754		1.31	14.8	2.83	3.94	<0.05	0.08	0.53	0.023	0.07	10.5	14.8	0.52	1070	1.15	0.02
ZZ36755		1.62	23.8	3.28	3.52	0.05	0.09	0.74	0.037	0.08	13.7	16.1	0.40	302	1.37	0.02
ZZ36756		1.00	34.0	2.65	4.14	<0.05	0.13	0.50	0.036	0.06	11.6	19.9	0.44	358	2.26	0.02
ZZ36757		1.12	20.1	2.80	4.46	<0.05	0.15	0.22	0.030	0.06	9.8	23.6	0.46	1760	2.38	0.02
ZZ36758		1.61	27.7	3.74	6.27	<0.05	0.02	0.25	0.040	0.06	9.7	30.0	0.52	496	2.09	0.01
ZZ36759		2.16	23.7	3.14	4.06	0.07	0.11	0.66	0.036	0.08	10.5	17.8	0.43	749	1.65	0.02
ZZ36760		3.18	29.6	2.88	4.78	0.08	0.13	0.50	0.035	0.09	11.5	17.4	0.59	252	1.48	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36721		0.31	26.5	1060	9.6	4.5	<0.001	0.13	0.44	1.5	1.9	0.5	38.1	0.01	0.10	<0.2
ZZ36722		0.35	10.3	860	5.7	1.6	<0.001	0.13	0.25	1.3	2.0	0.4	24.7	<0.01	0.04	<0.2
ZZ36723		0.95	24.8	470	16.3	8.5	<0.001	0.03	0.61	5.1	1.1	0.6	21.2	<0.01	0.09	2.2
ZZ36724		0.59	24.6	560	12.6	7.4	0.001	0.06	0.65	2.5	0.8	0.4	24.2	<0.01	0.06	0.9
ZZ36725		0.42	37.5	960	11.2	6.3	0.004	0.04	0.87	4.9	3.1	0.4	39.7	<0.01	0.12	1.8
ZZ36726		0.56	35.1	770	14.6	8.3	0.003	0.04	0.68	6.5	2.5	0.5	28.7	<0.01	0.07	3.4
ZZ36727		0.62	26.8	430	15.0	8.9	<0.001	0.03	0.53	3.9	0.4	0.5	21.2	<0.01	0.08	2.2
ZZ36728		0.21	38.6	480	20.7	6.5	<0.001	0.01	0.49	8.0	0.3	0.4	19.9	<0.01	0.08	4.8
ZZ36729		0.38	51.6	780	16.0	11.2	0.001	0.09	1.30	6.3	3.6	0.4	48.6	<0.01	0.08	1.2
ZZ36730		0.31	40.9	660	13.7	9.7	0.004	0.08	1.18	4.4	3.0	0.4	35.3	<0.01	0.08	1.1
ZZ36731		1.37	19.9	440	15.5	11.4	<0.001	<0.01	0.66	3.3	0.4	0.8	16.7	<0.01	0.04	4.0
ZZ36732		1.68	21.8	330	15.1	10.3	<0.001	0.01	0.62	3.8	0.3	0.8	10.0	0.01	0.05	4.9
ZZ36733		1.33	23.3	350	17.0	10.0	<0.001	0.01	0.71	3.1	0.2	0.7	8.5	<0.01	0.06	3.7
ZZ36734		0.24	29.6	900	15.1	11.9	0.001	0.03	0.75	3.5	1.6	0.5	21.2	<0.01	0.07	1.4
ZZ36735		0.21	40.6	1020	16.3	7.5	0.003	0.03	0.93	5.1	2.6	0.4	32.2	<0.01	0.08	2.2
ZZ36736		0.19	39.3	1010	16.6	8.3	0.002	0.02	0.96	5.1	2.4	0.4	30.2	<0.01	0.05	2.5
ZZ36737		0.33	23.3	700	16.2	9.2	<0.001	0.02	0.47	4.3	0.7	0.6	32.4	<0.01	0.08	1.5
ZZ36738		0.24	42.8	950	17.1	7.3	0.002	0.03	0.88	6.1	2.5	0.5	35.4	<0.01	0.07	2.4
ZZ36739		0.26	48.5	1000	17.0	7.8	0.004	0.05	0.94	5.8	2.4	0.4	41.7	<0.01	0.06	2.1
ZZ36740		1.19	22.1	440	23.9	8.9	0.001	0.02	0.43	5.0	0.5	1.0	32.5	<0.01	0.05	3.3
ZZ36741		1.27	13.7	220	14.1	9.2	<0.001	0.01	0.54	2.6	<0.2	0.8	11.7	<0.01	0.05	3.5
ZZ36742		0.84	15.7	220	16.9	10.1	<0.001	0.01	0.39	3.1	<0.2	0.7	18.3	<0.01	0.06	3.4
ZZ36743		0.25	32.1	400	18.2	7.7	<0.001	0.02	0.40	9.9	0.3	0.4	32.1	<0.01	0.08	3.9
ZZ36744		0.46	26.1	710	16.0	7.9	<0.001	0.06	0.51	7.9	1.3	0.4	87.3	<0.01	0.07	1.8
ZZ36745		0.72	25.4	450	21.0	12.0	<0.001	0.01	0.52	3.8	<0.2	0.6	16.3	<0.01	0.06	3.6
ZZ36746		0.89	12.3	210	12.9	10.6	<0.001	0.01	0.40	2.5	<0.2	0.7	9.9	<0.01	0.05	3.5
ZZ36747		0.61	17.4	170	17.2	9.2	<0.001	<0.01	0.33	3.6	<0.2	0.7	7.2	<0.01	0.05	3.7
ZZ36748		0.47	25.9	610	20.3	8.7	0.001	0.03	0.44	5.9	1.0	0.5	44.2	<0.01	0.04	2.8
ZZ36749		0.45	22.6	770	27.7	8.2	<0.001	0.02	0.56	5.7	0.5	0.5	9.7	<0.01	0.10	3.8
ZZ36750		0.33	14.7	1100	10.2	6.7	<0.001	0.18	0.51	2.6	1.5	0.2	139.5	<0.01	0.04	0.6
ZZ36751		0.34	16.6	1100	13.3	13.3	0.001	0.19	0.56	2.0	3.5	0.4	160.5	<0.01	0.04	0.4
ZZ36752		0.15	35.1	740	19.5	4.3	0.001	0.05	0.68	4.9	0.7	0.3	36.0	<0.01	0.07	4.3
ZZ36753		0.42	15.8	950	78.3	5.9	<0.001	0.03	1.90	2.7	0.5	0.3	45.5	<0.01	0.05	1.4
ZZ36754		0.74	18.5	1600	37.0	10.8	0.001	0.13	1.00	2.6	1.0	0.4	28.0	0.01	0.05	1.3
ZZ36755		0.57	27.0	1030	34.4	12.3	0.001	0.05	1.38	5.3	1.2	0.5	29.5	<0.01	0.04	2.5
ZZ36756		0.68	28.7	940	20.9	9.4	0.002	0.22	0.89	4.4	1.8	0.5	32.2	<0.01	0.06	2.2
ZZ36757		0.70	27.8	940	16.7	8.2	0.001	0.18	1.11	4.7	1.2	0.5	34.7	<0.01	0.05	2.9
ZZ36758		0.52	28.0	980	16.8	11.0	<0.001	0.04	0.66	2.0	0.7	0.6	11.4	<0.01	0.06	0.8
ZZ36759		0.48	26.1	1180	25.1	21.5	0.001	0.10	1.29	4.1	1.6	0.5	34.5	<0.01	0.04	2.0
ZZ36760		0.65	24.3	1810	12.4	18.5	0.001	0.13	1.06	3.7	1.6	0.6	34.2	0.01	0.05	1.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36721		0.008	0.16	3.61	34	0.09	35.4	170	0.5
ZZ36722		0.016	0.05	1.55	17	0.05	7.59	80	0.9
ZZ36723		0.024	0.15	1.09	51	0.19	12.70	110	1.1
ZZ36724		0.008	0.12	0.93	45	0.16	4.82	109	1.0
ZZ36725		0.008	0.10	1.99	44	0.08	13.15	95	1.3
ZZ36726		0.009	0.17	2.39	55	0.09	12.15	123	2.0
ZZ36727		0.009	0.10	0.44	50	0.12	3.65	88	1.3
ZZ36728		0.005	0.08	0.56	51	<0.05	7.42	92	3.4
ZZ36729		0.005	0.20	2.96	37	0.06	22.4	181	2.3
ZZ36730		0.005	0.23	1.88	55	0.05	11.15	219	1.5
ZZ36731		0.033	0.17	0.66	62	0.27	4.78	71	1.0
ZZ36732		0.035	0.15	0.81	67	0.33	5.65	57	2.6
ZZ36733		0.025	0.14	0.59	69	0.27	2.91	74	1.4
ZZ36734		<0.005	0.20	1.22	55	0.05	7.77	135	0.8
ZZ36735		<0.005	0.21	1.55	51	0.05	11.80	177	1.3
ZZ36736		<0.005	0.20	1.55	55	<0.05	10.95	181	1.1
ZZ36737		0.005	0.11	1.01	58	0.08	6.21	97	0.6
ZZ36738		<0.005	0.16	1.44	50	0.05	12.45	166	1.6
ZZ36739		<0.005	0.18	1.55	47	0.06	13.05	181	1.8
ZZ36740		0.018	0.14	0.83	70	0.25	7.81	89	1.1
ZZ36741		0.018	0.13	0.48	60	0.23	2.29	44	1.5
ZZ36742		0.012	0.13	0.41	59	0.14	2.23	70	1.8
ZZ36743		<0.005	0.09	0.79	42	<0.05	12.50	79	2.6
ZZ36744		0.009	0.06	1.34	37	0.07	17.10	61	2.1
ZZ36745		0.009	0.12	0.57	54	0.14	3.50	72	1.7
ZZ36746		0.013	0.11	0.39	54	0.17	2.26	45	1.3
ZZ36747		0.009	0.12	0.38	58	0.11	2.88	62	2.1
ZZ36748		0.008	0.10	1.93	30	0.16	10.85	71	1.7
ZZ36749		0.005	0.11	0.92	40	0.08	9.18	83	1.4
ZZ36750		0.007	0.06	3.43	15	<0.05	9.49	70	2.0
ZZ36751		0.005	0.08	3.91	17	<0.05	9.26	61	1.3
ZZ36752		<0.005	0.08	0.90	27	0.06	9.58	113	2.8
ZZ36753		0.015	0.16	1.54	24	0.25	10.50	173	1.4
ZZ36754		0.019	0.14	2.11	42	0.13	9.77	162	1.9
ZZ36755		0.015	0.16	1.75	39	0.22	14.95	181	2.3
ZZ36756		0.011	0.18	4.94	53	0.18	13.65	189	3.3
ZZ36757		0.010	0.21	5.63	53	0.18	10.10	180	3.8
ZZ36758		0.009	0.20	0.75	57	0.13	4.50	99	0.6
ZZ36759		0.010	0.40	1.58	41	0.12	11.25	605	2.7
ZZ36760		0.020	0.12	2.99	43	0.22	10.45	339	3.5



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**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36761		0.17	0.008	0.38	1.54	14.8	<0.2	<10	660	0.96	0.30	1.09	1.14	17.55	6.6	32
ZZ36762		0.24	0.004	0.37	1.72	19.8	<0.2	<10	540	0.58	0.24	0.89	0.58	24.8	7.7	30
ZZ36763		0.22	0.003	0.08	2.02	16.3	<0.2	<10	180	0.61	0.36	0.08	0.33	27.8	9.5	34
ZZ36764		0.29	0.003	0.26	1.72	8.5	<0.2	<10	870	0.59	0.30	0.48	0.54	22.2	6.2	29
ZZ36765		0.26	0.002	0.15	1.24	16.7	<0.2	<10	170	0.45	0.32	0.12	0.48	22.5	9.9	26
ZZ36766		0.21	0.003	0.11	2.19	18.2	<0.2	<10	410	0.81	0.26	0.12	1.42	46.6	12.1	34
ZZ36767		0.20	0.002	0.13	0.97	12.9	<0.2	<10	120	0.20	0.42	0.04	0.41	23.8	7.4	19
ZZ36768		0.19	0.004	0.12	1.65	19.3	<0.2	<10	360	0.86	0.27	0.45	0.63	24.6	13.4	27
ZZ36769		0.20	0.004	0.30	1.98	14.0	<0.2	<10	480	0.74	0.25	0.40	0.24	40.6	10.2	33
ZZ36770		0.18	0.003	0.17	2.04	11.2	<0.2	<10	350	0.83	0.27	0.98	0.23	35.3	10.0	33
ZZ36771		0.16	0.003	0.10	1.72	10.8	<0.2	<10	600	0.55	0.21	0.70	0.12	29.0	7.5	27
ZZ36772		0.18	0.002	0.15	1.83	8.3	<0.2	<10	400	0.57	0.21	0.72	0.10	25.1	5.7	26
ZZ36773		0.19	0.003	0.13	1.37	6.9	<0.2	<10	420	0.61	0.18	1.58	0.20	33.6	9.8	19
ZZ36774		0.26	0.003	0.10	2.03	11.5	<0.2	<10	130	0.54	0.22	0.06	0.33	41.4	23.0	41
ZZ36775		0.22	0.029	0.17	1.81	15.6	<0.2	<10	130	0.63	0.15	0.05	0.51	34.2	15.3	28
ZZ36776		0.20	0.003	0.60	1.13	16.8	<0.2	<10	170	0.62	0.16	0.63	0.79	26.1	6.5	22
ZZ36777		0.21	0.005	0.12	1.34	11.5	<0.2	<10	190	0.44	0.20	0.15	0.70	35.4	11.8	53
ZZ36778		0.21	0.004	0.17	1.31	13.1	<0.2	<10	230	0.56	0.18	0.41	0.47	22.1	8.9	22
ZZ36779		0.22	0.013	0.81	0.49	23.1	<0.2	<10	200	0.63	0.20	0.84	1.50	54.1	14.4	10
ZZ36780		0.27	0.039	1.89	0.61	26.1	<0.2	<10	290	0.56	0.25	1.10	2.53	32.7	14.1	12
ZZ36781		0.19	0.036	1.83	0.70	18.8	<0.2	<10	340	0.67	0.20	1.32	1.91	42.1	10.1	14
ZZ36782		0.25	0.009	0.44	0.68	17.3	<0.2	<10	220	0.54	0.17	0.37	0.92	40.2	10.9	17
ZZ36783		0.18	0.009	0.18	0.98	14.7	<0.2	<10	340	0.85	0.16	0.54	0.36	48.0	16.4	22
ZZ36784		0.32	0.009	0.54	0.67	15.7	<0.2	<10	340	0.83	0.19	1.23	1.23	34.1	16.8	16
ZZ36785		0.27	0.007	0.63	0.58	14.7	<0.2	<10	440	0.74	0.16	0.73	1.54	24.6	10.3	15
ZZ36786		0.17	0.011	0.74	0.38	15.9	<0.2	<10	170	0.65	0.17	1.54	1.51	16.05	8.7	8
ZZ36787		0.20	0.006	0.47	0.38	20.3	<0.2	<10	150	0.72	0.19	0.41	0.56	20.6	14.0	9
ZZ36788		0.18	0.009	0.49	0.42	19.7	<0.2	<10	230	0.77	0.18	0.49	0.59	27.3	16.0	12
ZZ36789		0.17	0.007	0.46	0.66	16.7	<0.2	<10	310	0.66	0.18	0.50	0.68	24.9	11.4	14
ZZ36790		0.23	0.003	0.19	0.46	16.5	<0.2	<10	290	0.17	0.24	0.02	0.31	9.13	1.5	9
ZZ36791		0.24	0.003	0.20	0.52	26.3	<0.2	<10	170	0.23	0.16	0.02	0.51	8.64	2.9	15
ZZ36792		0.20	0.003	0.21	1.29	16.4	<0.2	<10	230	0.41	0.21	0.06	0.50	17.15	4.9	23
ZZ36793		0.26	0.004	0.25	0.92	19.8	<0.2	<10	320	0.44	0.18	0.03	0.66	11.65	3.7	17
ZZ36794		0.23	0.002	0.11	0.26	7.9	<0.2	<10	150	0.08	0.16	0.01	0.05	5.70	0.4	5
ZZ36795		0.22	0.002	0.23	0.40	10.0	<0.2	<10	100	0.11	0.16	0.02	0.13	10.55	0.8	7
ZZ36796		0.26	0.004	0.57	0.26	18.1	<0.2	<10	330	0.14	0.18	0.02	0.33	6.23	0.9	8
ZZ36797		0.24	0.005	0.42	0.42	7.5	<0.2	<10	560	0.13	0.20	0.03	0.18	10.65	1.0	11
ZZ36798		0.23	0.003	0.74	0.49	15.0	<0.2	<10	480	0.17	0.24	0.04	0.19	12.90	1.2	12
ZZ36799		0.28	0.005	1.08	1.04	23.3	<0.2	<10	410	0.26	0.24	0.06	0.69	17.00	2.7	26
ZZ36800		0.25	0.005	2.44	0.94	20.1	<0.2	<10	270	0.23	0.26	0.05	0.40	19.05	2.7	25



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**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36761		2.21	56.4	2.70	4.76	0.08	0.17	0.37	0.036	0.08	12.0	18.1	0.47	152	1.40	0.02
ZZ36762		1.25	20.0	2.87	5.27	0.08	0.13	0.21	0.035	0.07	14.2	28.9	0.59	191	1.02	0.02
ZZ36763		2.06	20.2	3.78	7.15	0.08	<0.02	0.05	0.037	0.07	13.1	21.9	0.45	444	2.29	0.01
ZZ36764		2.43	17.0	2.41	5.83	0.06	<0.02	0.06	0.031	0.09	10.8	18.0	0.40	335	1.80	0.02
ZZ36765		1.99	22.7	3.55	5.46	0.07	<0.02	0.05	0.032	0.08	10.8	10.3	0.21	878	4.79	0.01
ZZ36766		1.44	21.0	3.49	5.28	0.10	0.03	0.06	0.046	0.08	17.6	21.6	0.36	508	5.24	0.01
ZZ36767		1.19	24.1	3.35	5.37	0.06	<0.02	0.04	0.028	0.08	12.4	3.7	0.12	356	5.75	0.01
ZZ36768		1.57	26.1	3.82	5.29	0.06	0.05	0.03	0.043	0.08	9.3	37.8	0.46	772	6.17	0.01
ZZ36769		2.38	30.2	3.64	7.16	0.08	0.06	0.06	0.042	0.07	19.1	23.1	0.44	308	5.54	0.01
ZZ36770		5.25	23.3	3.42	6.92	0.09	0.03	0.05	0.039	0.08	18.0	31.3	0.55	550	2.37	0.02
ZZ36771		1.61	21.6	3.30	6.61	<0.05	0.03	0.02	0.036	0.08	13.8	15.5	0.39	383	2.87	0.01
ZZ36772		3.16	15.5	2.88	5.92	<0.05	0.02	0.03	0.031	0.07	12.7	22.2	0.45	216	1.73	0.01
ZZ36773		2.55	26.8	2.72	4.79	<0.05	0.05	0.07	0.032	0.08	17.3	18.9	0.41	764	2.06	0.01
ZZ36774		2.79	29.5	6.39	7.67	0.05	<0.02	0.07	0.043	0.10	16.8	19.6	0.42	1500	2.27	<0.01
ZZ36775		1.52	31.0	4.22	5.21	<0.05	<0.02	0.05	0.036	0.07	13.7	12.7	0.26	919	3.38	<0.01
ZZ36776		1.25	40.5	2.38	3.41	<0.05	0.03	0.06	0.030	0.06	12.5	20.4	0.31	177	7.67	0.01
ZZ36777		1.69	19.4	3.60	6.24	<0.05	<0.02	0.04	0.028	0.07	14.6	19.9	0.28	1000	3.14	<0.01
ZZ36778		1.18	30.8	3.55	4.27	<0.05	0.04	0.04	0.031	0.08	10.1	13.2	0.30	442	3.99	0.01
ZZ36779		1.01	110.0	4.10	1.24	0.09	0.02	0.24	0.039	0.11	26.3	4.5	0.10	650	8.05	<0.01
ZZ36780		1.51	259	3.85	1.71	0.07	0.02	0.23	0.039	0.18	19.6	6.0	0.09	465	10.25	0.01
ZZ36781		1.57	178.0	2.82	2.15	0.07	0.08	0.46	0.040	0.18	26.5	8.8	0.13	415	8.70	0.01
ZZ36782		0.82	66.6	2.93	2.20	0.06	0.02	0.08	0.034	0.13	21.2	5.6	0.09	544	5.67	<0.01
ZZ36783		0.77	52.1	3.80	2.72	0.07	0.04	0.07	0.041	0.09	23.9	7.2	0.14	430	4.46	<0.01
ZZ36784		1.09	65.3	3.89	2.00	0.05	0.05	0.14	0.044	0.10	15.6	6.5	0.26	573	5.72	<0.01
ZZ36785		0.71	54.0	2.70	1.83	0.05	0.07	0.10	0.039	0.08	13.0	5.1	0.13	281	7.15	<0.01
ZZ36786		0.84	59.9	2.98	1.03	<0.05	0.16	0.20	0.041	0.08	8.5	2.8	0.10	145	5.19	<0.01
ZZ36787		0.66	53.5	3.17	1.17	<0.05	0.07	0.18	0.042	0.07	9.2	2.4	0.05	384	7.22	<0.01
ZZ36788		0.88	64.9	3.88	1.20	0.05	0.05	0.21	0.038	0.08	12.9	2.8	0.08	378	6.11	<0.01
ZZ36789		0.83	46.9	3.57	1.73	0.05	0.09	0.14	0.038	0.06	11.0	4.7	0.13	248	5.35	<0.01
ZZ36790		1.10	12.4	1.18	2.93	<0.05	<0.02	0.06	0.015	0.06	4.3	0.9	0.03	62	19.00	<0.01
ZZ36791		1.07	18.7	2.32	3.09	<0.05	<0.02	0.04	0.020	0.06	4.1	2.5	0.06	152	11.90	<0.01
ZZ36792		1.10	17.2	2.44	4.08	<0.05	<0.02	0.04	0.025	0.07	7.5	9.6	0.23	233	7.49	<0.01
ZZ36793		1.37	21.0	2.21	2.59	<0.05	<0.02	0.06	0.030	0.08	5.5	8.7	0.12	189	13.50	<0.01
ZZ36794		1.19	6.3	0.46	2.01	<0.05	<0.02	0.01	0.007	0.08	2.8	0.6	0.01	6	9.12	<0.01
ZZ36795		1.66	8.1	0.46	3.00	<0.05	<0.02	0.03	0.006	0.06	4.6	0.7	0.02	17	9.23	<0.01
ZZ36796		0.89	23.1	1.10	1.25	<0.05	<0.02	0.08	0.029	0.12	3.0	0.6	0.01	21	28.8	<0.01
ZZ36797		1.34	9.5	0.77	2.97	<0.05	<0.02	0.08	0.013	0.08	5.0	0.7	0.03	27	18.70	<0.01
ZZ36798		1.29	8.1	1.00	3.53	<0.05	<0.02	0.08	0.015	0.09	6.2	1.0	0.03	36	26.3	<0.01
ZZ36799		0.85	17.7	2.43	5.00	<0.05	<0.02	0.19	0.040	0.08	8.5	4.1	0.14	91	20.7	<0.01
ZZ36800		1.17	19.8	2.34	6.00	<0.05	<0.02	0.12	0.020	0.08	9.1	3.5	0.11	78	12.85	0.01



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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36761		0.53	25.6	1450	14.2	17.7	0.001	0.16	1.26	4.5	2.4	0.5	31.5	0.01	0.04	2.5
ZZ36762		0.86	24.5	1240	12.5	15.3	<0.001	0.12	0.82	4.4	1.6	0.6	28.7	0.01	0.03	2.9
ZZ36763		0.61	21.3	800	18.5	16.0	<0.001	0.04	0.95	1.3	0.9	0.8	10.7	<0.01	0.05	0.4
ZZ36764		0.22	19.0	1400	10.7	19.8	<0.001	0.05	0.53	0.8	0.8	0.7	18.4	<0.01	0.03	0.2
ZZ36765		0.19	22.9	1300	17.9	16.6	<0.001	0.04	1.19	0.5	1.0	0.7	13.8	<0.01	0.06	<0.2
ZZ36766		0.46	33.8	1380	16.8	14.8	0.001	0.05	1.46	1.9	1.6	0.6	16.5	0.01	0.06	0.7
ZZ36767		0.20	20.0	1300	14.3	17.7	<0.001	0.05	1.38	0.4	0.8	0.7	9.1	<0.01	0.07	<0.2
ZZ36768		0.44	34.3	860	20.0	13.7	0.001	0.05	1.71	2.8	1.7	0.5	37.7	<0.01	0.07	1.3
ZZ36769		0.48	26.7	1500	15.8	15.0	0.001	0.04	1.35	2.9	1.4	0.8	30.9	<0.01	0.04	1.5
ZZ36770		0.52	27.4	1910	13.8	19.4	<0.001	0.09	0.88	1.9	1.4	0.8	60.9	0.01	0.05	0.7
ZZ36771		0.46	17.1	1570	12.5	12.9	0.001	0.05	0.62	1.6	0.7	0.7	42.4	<0.01	0.04	0.5
ZZ36772		0.45	15.7	1460	10.0	14.1	<0.001	0.07	0.46	1.3	0.7	0.7	42.5	<0.01	0.02	0.4
ZZ36773		0.51	17.0	1630	11.0	15.5	0.001	0.11	0.56	2.8	1.5	0.6	84.7	<0.01	0.03	0.8
ZZ36774		0.46	32.1	2470	22.3	20.0	<0.001	0.04	0.84	2.1	1.3	0.8	12.6	<0.01	0.03	0.6
ZZ36775		0.18	25.5	3190	13.1	10.6	0.001	0.14	1.12	0.3	1.3	0.6	12.2	<0.01	0.04	<0.2
ZZ36776		0.26	36.1	1370	10.5	9.2	0.002	0.03	4.46	1.7	2.5	0.4	31.7	<0.01	0.06	0.6
ZZ36777		0.41	21.2	1380	14.4	16.2	<0.001	0.04	0.94	1.7	1.1	0.7	12.9	<0.01	0.03	0.3
ZZ36778		0.20	26.4	2210	14.0	16.5	0.001	0.08	0.86	1.5	1.2	0.5	18.9	<0.01	0.03	0.6
ZZ36779		0.07	50.7	2340	21.3	5.9	0.002	0.05	1.95	6.3	2.7	0.3	33.2	<0.01	0.07	1.8
ZZ36780		0.07	48.2	4600	20.3	9.0	0.001	0.05	4.75	4.0	5.1	0.5	50.7	<0.01	0.11	1.3
ZZ36781		0.23	40.9	2850	18.1	9.3	0.004	0.14	4.03	5.0	4.9	0.6	76.4	<0.01	0.10	1.5
ZZ36782		0.10	27.9	2730	13.0	9.3	0.002	0.06	1.71	1.9	2.3	0.6	24.4	<0.01	0.06	0.4
ZZ36783		0.16	34.1	1670	15.2	9.8	0.001	0.03	1.02	5.2	1.7	0.4	25.0	<0.01	0.05	1.4
ZZ36784		0.21	50.3	1720	19.6	6.3	0.001	0.02	1.57	8.2	2.2	0.4	46.9	<0.01	0.05	3.4
ZZ36785		0.16	36.1	1820	14.7	6.8	0.002	0.07	1.68	4.5	2.2	0.4	39.0	<0.01	0.07	0.9
ZZ36786		0.10	34.1	1950	17.9	7.1	0.001	0.13	1.65	5.1	2.9	0.3	48.1	<0.01	0.07	1.2
ZZ36787		0.10	35.3	1550	19.0	6.2	0.001	0.04	1.78	4.5	1.9	0.3	22.5	<0.01	0.07	1.0
ZZ36788		0.09	41.4	1640	21.5	4.7	0.002	0.04	1.76	5.2	1.8	0.3	27.3	<0.01	0.07	1.2
ZZ36789		0.20	34.3	1620	16.9	6.8	0.001	0.05	1.40	4.5	1.6	0.3	25.3	<0.01	0.08	1.1
ZZ36790		0.12	7.1	660	12.4	8.1	0.003	0.07	1.35	0.1	1.7	0.6	18.4	<0.01	0.08	<0.2
ZZ36791		0.10	14.8	980	9.5	8.1	0.002	0.09	2.53	0.1	2.5	0.5	24.4	<0.01	0.06	<0.2
ZZ36792		0.18	16.1	1110	11.6	10.0	0.001	0.06	1.75	0.4	1.9	0.5	18.7	<0.01	0.06	<0.2
ZZ36793		0.19	19.0	920	12.1	10.0	0.004	0.13	2.14	0.7	2.8	0.4	31.0	<0.01	0.07	0.2
ZZ36794		0.09	2.4	200	15.3	8.6	0.002	0.09	0.65	0.4	0.8	0.5	6.7	<0.01	0.04	0.3
ZZ36795		0.14	4.2	390	8.8	8.8	0.002	0.02	1.02	0.2	0.8	0.7	11.1	<0.01	0.05	<0.2
ZZ36796		0.07	8.6	380	12.0	9.0	0.006	0.21	3.97	0.8	3.4	0.5	21.7	<0.01	0.05	0.3
ZZ36797		0.20	5.7	850	13.9	9.2	0.001	0.14	2.83	0.3	3.5	1.0	28.4	<0.01	0.07	<0.2
ZZ36798		0.17	6.8	770	18.7	10.1	0.001	0.11	5.13	0.3	6.3	1.0	66.5	<0.01	0.08	<0.2
ZZ36799		0.41	10.9	1150	16.2	8.1	0.001	0.16	4.55	0.8	9.0	0.9	51.3	<0.01	0.08	<0.2
ZZ36800		0.26	11.3	1070	16.2	9.1	<0.001	0.13	4.05	0.3	4.7	1.1	33.0	<0.01	0.06	<0.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36761		0.012	0.14	6.05	40	0.12	15.65	164	4.6
ZZ36762		0.026	0.14	4.45	47	0.14	11.35	202	3.4
ZZ36763		0.021	0.14	0.99	59	0.25	5.39	89	<0.5
ZZ36764		0.009	0.18	1.50	47	0.17	5.99	118	<0.5
ZZ36765		0.009	0.18	1.03	59	0.14	4.92	110	<0.5
ZZ36766		0.015	0.29	1.81	77	0.20	14.35	191	0.5
ZZ36767		0.007	0.24	0.76	73	0.11	2.60	94	<0.5
ZZ36768		0.012	0.36	0.98	82	0.20	5.08	128	1.3
ZZ36769		0.009	0.31	1.74	79	0.20	6.79	100	1.5
ZZ36770		0.015	0.17	1.42	63	0.16	8.59	111	0.8
ZZ36771		0.013	0.20	0.48	73	0.16	3.23	77	0.6
ZZ36772		0.014	0.18	0.84	62	0.16	3.73	74	<0.5
ZZ36773		0.014	0.12	1.15	43	0.09	7.06	66	1.2
ZZ36774		0.017	0.18	0.58	84	0.12	4.17	105	<0.5
ZZ36775		0.007	0.20	0.85	53	0.08	4.91	118	<0.5
ZZ36776		0.008	0.32	1.71	54	0.08	8.64	303	1.0
ZZ36777		0.015	0.20	0.63	79	0.12	4.82	103	<0.5
ZZ36778		<0.005	0.18	0.73	45	<0.05	3.93	115	1.1
ZZ36779		<0.005	0.15	1.43	33	<0.05	22.0	228	0.7
ZZ36780		0.005	0.24	3.75	52	<0.05	24.1	354	0.5
ZZ36781		0.006	0.26	4.75	62	0.06	24.5	235	2.9
ZZ36782		<0.005	0.16	1.69	45	0.05	11.95	155	0.6
ZZ36783		<0.005	0.13	1.41	44	0.06	13.30	118	1.1
ZZ36784		0.008	0.20	1.36	44	0.09	17.80	186	2.1
ZZ36785		<0.005	0.31	2.43	53	0.13	17.90	179	1.8
ZZ36786		<0.005	0.13	1.79	31	<0.05	14.50	208	4.3
ZZ36787		<0.005	0.16	1.07	35	0.08	11.60	151	2.0
ZZ36788		<0.005	0.14	1.12	34	<0.05	16.00	168	1.3
ZZ36789		0.005	0.18	1.04	39	0.06	13.60	147	2.3
ZZ36790		0.006	1.37	1.51	111	0.19	2.44	40	<0.5
ZZ36791		0.006	0.66	1.42	184	0.13	2.42	76	<0.5
ZZ36792		0.010	0.56	1.90	128	0.20	3.41	82	<0.5
ZZ36793		0.009	1.16	2.53	127	0.16	4.75	96	<0.5
ZZ36794		0.005	1.02	0.47	59	0.09	1.41	8	<0.5
ZZ36795		0.007	1.14	0.71	105	0.12	1.79	16	<0.5
ZZ36796		<0.005	3.45	2.99	135	0.16	3.50	52	<0.5
ZZ36797		0.008	1.49	1.94	108	0.22	2.65	30	<0.5
ZZ36798		0.009	1.75	3.46	222	0.25	4.36	50	<0.5
ZZ36799		0.022	1.42	3.48	377	0.33	5.16	49	<0.5
ZZ36800		0.016	0.69	2.30	280	0.28	3.52	57	<0.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36801		0.19	0.016	8.33	0.98	21.6	<0.2	<10	1840	0.56	0.23	0.28	2.30	15.75	1.5	45
ZZ36802		0.31	0.012	4.25	0.49	14.1	<0.2	10	1570	0.55	0.19	0.27	2.22	8.37	0.5	48
ZZ36803		0.32	0.007	3.28	0.73	20.0	<0.2	10	1690	0.80	0.24	0.36	11.65	12.15	2.5	49
ZZ36804		0.27	0.011	12.40	0.76	15.4	<0.2	10	2230	0.75	0.16	1.45	16.85	16.95	4.8	69
ZZ36805		0.28	0.006	2.01	1.44	35.6	<0.2	10	3280	0.94	0.18	5.84	26.8	12.40	24.9	53
ZZ36806		0.20	0.008	0.46	0.46	5.6	<0.2	10	1540	0.23	0.08	4.20	3.12	3.92	3.6	10
ZZ36807		0.29	0.004	0.48	0.88	17.5	<0.2	10	730	0.58	0.20	8.09	5.31	16.95	17.3	33
ZZ36808		0.15	0.009	0.11	0.62	5.2	<0.2	10	630	0.48	0.18	3.74	1.35	4.76	5.7	10
ZZ36809		0.33	0.005	0.35	1.39	13.3	<0.2	<10	680	0.85	0.23	1.48	1.65	22.8	10.8	27
ZZ36810		0.23	0.004	0.82	1.05	24.7	<0.2	<10	1360	0.72	0.24	0.13	2.26	12.75	10.4	22
ZZ36811		0.26	0.003	0.37	1.92	27.4	<0.2	<10	1220	0.76	0.26	0.49	0.59	20.8	14.4	31
ZZ36812		0.19	0.049	1.51	0.55	10.5	<0.2	10	2560	0.37	0.14	3.12	3.15	12.10	6.7	26
ZZ36813		0.21	0.012	0.42	0.59	14.4	<0.2	<10	1070	0.37	0.15	3.74	12.45	8.73	15.5	12
ZZ36814		0.22	0.004	1.53	0.83	19.0	<0.2	10	2050	0.68	0.23	2.72	9.20	13.30	18.6	29
ZZ36815		0.22	0.005	2.52	0.79	17.4	<0.2	10	2020	0.68	0.24	2.77	4.95	11.65	11.7	37
ZZ36816		0.21	0.006	1.93	0.94	19.2	<0.2	<10	1320	0.57	0.25	2.65	3.95	12.20	13.0	32
ZZ36817		0.19	0.006	1.83	0.80	28.4	<0.2	<10	1220	0.49	0.20	3.07	2.73	10.25	20.2	35
ZZ36818		0.14	0.012	0.30	0.45	6.1	<0.2	<10	930	0.79	0.10	3.32	5.96	3.13	4.8	7
ZZ36819		0.30	0.004	0.54	0.61	17.7	<0.2	<10	630	0.51	0.25	0.48	3.09	6.41	5.3	17
ZZ36820		0.28	0.004	0.60	1.25	13.1	<0.2	<10	530	1.14	0.32	0.51	2.14	15.20	11.0	23
ZZ36821		0.22	0.004	0.42	1.26	11.6	<0.2	<10	540	1.08	0.31	0.45	1.61	13.45	13.2	21
ZZ36822		0.21	0.004	0.29	1.04	7.4	<0.2	<10	450	1.21	0.25	0.42	0.71	10.00	9.6	19
ZZ36823		0.32	0.004	0.39	1.19	19.4	<0.2	<10	530	0.95	0.25	0.69	0.85	14.85	9.8	22
ZZ36824		0.16	0.005	0.34	1.26	25.9	<0.2	<10	790	0.87	0.21	1.72	1.43	10.15	13.4	20
ZZ36825		0.19	0.008	0.41	1.55	33.3	<0.2	<10	760	1.06	0.24	1.27	1.20	11.15	14.7	24
ZZ36826		0.20	0.004	0.38	1.44	21.9	<0.2	<10	530	0.84	0.23	0.97	1.00	12.20	10.2	23
ZZ36827		0.16	0.010	1.06	0.78	16.2	<0.2	10	940	0.95	0.22	1.96	4.00	7.24	10.0	18
ZZ36828		0.18	0.003	0.49	0.92	20.1	<0.2	<10	540	0.85	0.23	0.78	2.13	12.25	16.4	19
ZZ36829		0.21	0.003	0.23	1.46	21.7	<0.2	<10	260	0.90	0.24	1.12	0.30	14.90	10.4	25
ZZ36830		0.13	0.003	0.37	1.35	28.0	<0.2	<10	410	0.85	0.21	2.12	0.43	12.10	10.4	21
ZZ36831		0.28	0.006	0.24	1.47	42.3	<0.2	<10	410	0.83	0.22	1.56	0.81	21.6	16.1	26
ZZ36832		0.25	0.005	0.21	1.93	38.8	<0.2	<10	410	0.89	0.23	1.19	0.52	23.5	15.9	30
ZZ36833		0.12	0.017	0.24	1.28	43.6	<0.2	<10	600	0.59	0.16	2.62	0.34	12.15	7.5	20
ZZ36834		0.17	0.006	0.14	1.24	15.3	<0.2	<10	350	0.84	0.22	1.08	0.37	6.92	13.1	20
ZZ36835		0.20	0.003	0.30	1.49	44.3	<0.2	10	600	0.83	0.21	1.70	0.82	17.60	11.7	25
ZZ36836		0.21	0.004	0.27	1.49	32.5	<0.2	<10	570	0.74	0.24	1.21	0.38	15.80	10.4	25
ZZ36837		0.21	0.003	0.28	1.29	27.8	<0.2	<10	470	0.72	0.21	1.20	0.48	18.05	13.3	22
ZZ36838		0.29	0.005	0.43	1.87	22.6	<0.2	<10	490	0.94	0.27	0.70	0.53	28.7	20.1	31
ZZ36839		0.10	0.007	0.45	1.14	12.7	<0.2	<10	790	0.59	0.16	2.62	0.56	10.85	9.7	18
ZZ36840		0.16	0.004	0.58	1.64	291	<0.2	10	790	0.86	0.24	1.32	0.43	16.95	10.8	26





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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36801		1.21	71.9	1.96	3.61	0.09	<0.02	0.58	0.051	0.11	7.5	1.9	0.06	36	34.1	0.01
ZZ36802		0.61	101.0	1.45	1.61	0.11	<0.02	0.23	0.033	0.11	5.9	1.3	0.02	5	11.90	<0.01
ZZ36803		1.34	146.0	1.91	2.04	0.09	0.03	0.22	0.054	0.13	6.8	1.5	0.02	22	20.1	<0.01
ZZ36804		0.97	117.5	1.53	2.22	0.11	0.03	0.38	0.030	0.08	15.5	3.9	0.08	103	18.20	0.01
ZZ36805		1.43	77.4	5.21	1.81	0.08	0.08	0.20	0.040	0.08	10.5	3.9	0.11	293	31.7	0.01
ZZ36806		0.35	19.4	0.88	1.03	<0.05	0.03	0.10	0.010	0.03	3.1	1.8	0.07	175	3.29	0.01
ZZ36807		0.81	38.0	2.48	2.41	0.06	0.08	0.11	0.033	0.08	14.3	7.1	0.21	837	4.52	0.01
ZZ36808		1.32	19.9	1.63	1.37	<0.05	0.05	0.09	0.025	0.07	2.5	4.2	0.09	131	1.48	0.01
ZZ36809		0.51	22.9	2.93	3.68	0.06	0.06	0.09	0.030	0.06	15.1	13.7	0.42	335	4.14	0.01
ZZ36810		0.91	35.6	2.92	3.69	<0.05	0.02	0.08	0.032	0.10	5.9	11.3	0.25	722	14.85	<0.01
ZZ36811		1.38	38.0	3.94	5.42	<0.05	0.07	0.09	0.037	0.06	8.9	31.7	0.65	571	2.70	<0.01
ZZ36812		0.78	37.4	1.56	1.45	0.06	0.04	0.18	0.024	0.06	9.8	3.9	0.24	239	9.49	<0.01
ZZ36813		0.31	17.1	2.29	1.23	0.05	0.03	0.22	0.023	0.03	8.3	1.4	0.05	373	77.3	0.01
ZZ36814		0.49	41.5	3.02	2.20	0.07	0.07	0.25	0.036	0.05	10.2	5.6	0.15	538	33.4	<0.01
ZZ36815		0.45	56.3	2.58	2.42	0.05	0.06	0.32	0.037	0.05	8.0	6.6	0.15	282	6.03	<0.01
ZZ36816		0.46	36.9	2.65	2.41	0.06	0.08	0.34	0.043	0.05	10.2	5.4	0.12	345	18.85	0.01
ZZ36817		0.51	30.0	4.03	2.21	0.07	0.06	0.27	0.035	0.04	7.6	5.2	0.14	456	37.4	0.01
ZZ36818		0.30	43.6	1.03	1.02	<0.05	0.06	0.10	0.016	0.02	1.8	1.4	0.07	526	5.45	0.01
ZZ36819		0.87	25.1	1.58	2.23	<0.05	0.05	0.18	0.027	0.04	3.5	3.5	0.06	300	17.35	<0.01
ZZ36820		2.14	44.7	2.56	3.56	<0.05	0.05	0.16	0.039	0.07	7.2	13.6	0.26	701	6.99	<0.01
ZZ36821		1.71	32.0	3.02	3.66	<0.05	0.05	0.10	0.035	0.07	5.9	15.6	0.27	1200	6.27	<0.01
ZZ36822		3.42	46.9	2.81	3.04	<0.05	0.04	0.06	0.035	0.08	4.7	9.1	0.16	588	4.53	<0.01
ZZ36823		1.49	47.0	3.06	3.33	<0.05	0.06	0.13	0.035	0.07	7.4	14.7	0.33	339	5.12	<0.01
ZZ36824		0.83	37.1	3.47	3.45	<0.05	0.05	0.15	0.030	0.06	4.5	17.5	0.36	1710	9.19	0.01
ZZ36825		0.90	47.8	4.74	3.84	<0.05	0.10	0.12	0.036	0.07	5.2	20.8	0.44	783	10.20	0.01
ZZ36826		0.78	32.7	3.32	4.04	<0.05	0.08	0.12	0.038	0.08	5.6	20.1	0.43	543	6.57	0.01
ZZ36827		1.06	46.4	2.22	2.14	<0.05	0.09	0.17	0.030	0.05	3.8	7.5	0.18	909	9.44	0.01
ZZ36828		1.21	37.3	3.05	2.64	<0.05	0.06	0.12	0.039	0.06	5.7	11.6	0.26	820	6.89	0.01
ZZ36829		0.70	32.9	3.26	3.94	<0.05	0.05	0.16	0.035	0.06	7.4	18.5	0.42	357	2.21	0.01
ZZ36830		0.76	48.9	3.01	3.58	<0.05	0.06	0.19	0.031	0.08	6.9	16.9	0.41	421	1.51	0.01
ZZ36831		0.98	42.7	3.08	4.02	<0.05	0.05	0.22	0.036	0.07	9.3	19.4	0.52	1360	1.17	0.01
ZZ36832		1.05	66.2	3.69	5.20	<0.05	0.08	0.22	0.037	0.09	11.5	26.8	0.79	619	0.95	0.01
ZZ36833		0.81	34.3	2.37	3.58	<0.05	0.04	0.27	0.024	0.05	6.5	16.4	0.37	343	1.07	0.01
ZZ36834		1.17	38.1	3.66	3.63	<0.05	0.04	0.09	0.041	0.10	2.7	14.8	0.27	585	1.61	0.01
ZZ36835		1.31	40.2	3.24	3.94	0.05	0.08	0.28	0.038	0.09	8.7	23.4	0.53	340	0.90	0.01
ZZ36836		1.07	33.5	3.11	4.21	<0.05	0.06	0.14	0.033	0.06	8.1	19.0	0.48	363	1.34	0.01
ZZ36837		0.75	41.2	3.11	3.83	<0.05	0.05	0.15	0.028	0.06	8.3	20.3	0.54	585	1.43	0.01
ZZ36838		2.01	74.3	4.63	5.23	0.06	0.10	0.22	0.039	0.10	12.9	29.8	0.89	789	1.53	0.01
ZZ36839		1.60	35.6	2.41	3.27	<0.05	0.06	0.18	0.028	0.06	5.2	11.5	0.35	1170	1.15	0.01
ZZ36840		3.11	45.0	3.21	4.80	0.05	0.08	0.45	0.038	0.10	8.4	23.3	0.49	374	1.18	<0.01

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36801		0.18	19.5	5370	22.7	9.2	0.006	0.25	14.05	1.1	18.8	1.1	154.0	<0.01	0.13	0.2
ZZ36802		<0.05	19.1	5170	10.5	7.1	0.016	0.15	3.23	2.4	18.6	0.8	81.2	<0.01	0.14	1.1
ZZ36803		0.05	49.3	4810	15.9	10.6	0.009	0.26	5.24	1.7	13.1	1.4	209	<0.01	0.15	0.4
ZZ36804		0.13	134.0	4550	10.3	7.7	0.019	0.13	4.59	2.9	17.1	0.7	162.5	<0.01	0.09	0.6
ZZ36805		0.16	465	4970	13.1	6.7	0.002	0.11	4.01	5.0	10.1	0.7	206	<0.01	0.15	1.0
ZZ36806		0.16	34.5	1330	4.4	2.1	0.001	0.25	0.81	0.5	2.1	0.2	45.2	<0.01	0.04	<0.2
ZZ36807		0.24	96.4	3630	12.9	6.6	<0.001	0.07	2.34	2.9	1.9	0.6	81.7	<0.01	0.14	0.8
ZZ36808		0.10	22.7	1520	13.3	7.3	<0.001	0.27	0.50	1.6	1.1	0.3	54.8	<0.01	0.03	0.6
ZZ36809		0.54	47.9	1630	13.2	5.6	<0.001	0.05	1.38	3.8	1.4	0.4	42.3	<0.01	0.06	1.5
ZZ36810		0.12	34.4	2120	18.4	10.2	0.002	0.14	5.23	0.8	4.4	0.5	54.6	<0.01	0.09	0.3
ZZ36811		0.35	36.5	840	18.3	9.6	<0.001	0.02	0.95	3.9	1.2	0.4	25.5	<0.01	0.07	2.0
ZZ36812		0.17	69.7	2150	9.2	5.5	0.003	0.17	1.89	2.7	5.0	0.4	101.5	<0.01	0.06	0.4
ZZ36813		0.20	139.0	1800	9.6	2.6	0.001	0.20	1.66	1.2	6.0	0.3	80.8	<0.01	0.24	<0.2
ZZ36814		0.27	157.0	2790	16.1	4.9	0.004	0.11	2.49	3.5	6.6	0.6	112.5	<0.01	0.30	0.8
ZZ36815		0.26	115.5	1950	14.5	5.1	0.007	0.12	2.31	4.3	4.0	0.6	109.0	<0.01	0.15	1.0
ZZ36816		0.31	99.2	1750	16.0	5.3	0.007	0.12	2.30	4.1	5.9	0.6	71.5	<0.01	0.24	1.0
ZZ36817		0.31	60.4	1970	13.2	5.2	0.015	0.16	2.25	2.7	8.8	0.5	77.4	<0.01	0.20	0.7
ZZ36818		0.16	58.4	910	5.2	2.3	0.003	0.18	1.33	1.4	2.9	0.2	63.9	<0.01	0.02	0.2
ZZ36819		0.13	27.8	970	15.0	6.8	0.003	0.05	1.69	2.7	2.3	0.5	88.8	<0.01	0.08	0.7
ZZ36820		0.39	41.8	750	20.6	9.1	0.002	0.03	1.62	5.5	2.2	0.6	54.5	<0.01	0.05	2.5
ZZ36821		0.31	35.6	620	19.4	9.6	<0.001	0.03	1.27	5.0	2.1	0.5	32.8	<0.01	0.05	2.3
ZZ36822		0.27	22.1	830	15.6	10.7	<0.001	0.06	0.79	4.2	0.8	0.5	26.5	<0.01	0.02	1.2
ZZ36823		0.31	34.9	800	15.1	7.9	0.001	0.03	1.54	5.4	1.2	0.5	44.8	<0.01	0.05	2.3
ZZ36824		0.25	33.5	1050	13.5	9.2	0.003	0.10	1.42	4.3	1.8	0.4	74.2	<0.01	0.04	1.4
ZZ36825		0.21	44.5	1230	14.9	10.8	0.009	0.11	1.82	5.1	2.9	0.4	62.1	<0.01	0.05	1.4
ZZ36826		0.23	34.7	1030	14.4	11.2	0.006	0.07	1.64	4.8	2.2	0.4	52.1	<0.01	0.05	1.7
ZZ36827		0.19	62.7	1300	15.3	6.5	0.026	0.14	2.79	3.4	6.8	0.5	92.2	<0.01	0.05	0.8
ZZ36828		0.19	44.6	1030	15.9	7.5	0.008	0.07	1.99	4.6	2.8	0.4	59.1	<0.01	0.01	1.8
ZZ36829		0.28	30.8	620	14.4	7.7	<0.001	0.05	0.67	4.5	1.4	0.4	19.2	<0.01	0.01	1.6
ZZ36830		0.22	34.3	880	12.1	7.8	0.003	0.12	0.77	3.7	1.9	0.4	53.0	<0.01	0.05	0.9
ZZ36831		0.34	34.2	810	15.6	8.0	<0.001	0.07	0.69	4.6	0.9	0.4	45.9	<0.01	0.05	1.4
ZZ36832		0.34	37.4	750	16.7	8.8	<0.001	0.07	0.62	6.7	1.1	0.4	39.9	<0.01	0.05	2.3
ZZ36833		0.38	18.9	1170	10.4	7.3	0.001	0.17	0.62	2.2	3.3	0.3	81.4	<0.01	0.06	0.4
ZZ36834		0.12	39.3	780	15.4	10.1	0.003	0.10	0.56	4.7	1.7	0.5	45.2	<0.01	0.05	1.7
ZZ36835		0.35	29.7	1250	15.3	11.6	0.009	0.13	0.49	5.3	3.3	0.4	65.9	<0.01	0.03	1.6
ZZ36836		0.45	29.8	730	13.4	8.2	<0.001	0.06	0.72	4.1	0.9	0.4	46.6	<0.01	0.02	1.3
ZZ36837		0.24	30.6	740	15.5	5.9	0.001	0.04	0.69	5.1	1.4	0.3	52.1	<0.01	0.03	1.7
ZZ36838		0.20	45.6	730	20.6	7.6	0.001	0.02	0.74	8.0	1.1	0.3	39.0	<0.01	0.08	4.2
ZZ36839		0.31	22.3	910	11.0	9.0	0.001	0.12	0.59	2.7	1.1	0.3	94.6	<0.01	0.02	0.5
ZZ36840		0.37	32.0	730	15.8	14.2	0.003	0.07	0.64	5.3	2.1	0.5	58.0	<0.01	0.02	1.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36801		0.006	1.47	19.10	343	0.32	23.7	95	0.5
ZZ36802		<0.005	0.76	8.05	81	0.24	17.30	89	0.5
ZZ36803		<0.005	1.09	10.30	138	0.43	23.8	276	0.7
ZZ36804		0.007	0.97	15.60	149	0.33	40.6	831	1.5
ZZ36805		0.006	1.33	10.90	150	0.32	69.4	3580	2.7
ZZ36806		0.007	0.25	3.35	33	0.05	13.55	211	1.3
ZZ36807		0.010	0.35	5.34	81	0.18	38.2	480	2.7
ZZ36808		<0.005	0.13	5.68	20	<0.05	5.65	92	1.7
ZZ36809		0.023	0.15	2.30	70	0.26	26.2	187	1.4
ZZ36810		<0.005	0.98	2.22	177	0.11	7.13	189	0.5
ZZ36811		0.006	0.15	0.84	60	0.08	5.22	116	1.6
ZZ36812		0.006	0.16	6.93	56	0.13	25.0	442	1.7
ZZ36813		0.007	0.09	6.29	38	0.12	34.2	1180	0.9
ZZ36814		0.006	0.26	9.18	83	0.16	36.7	1150	1.9
ZZ36815		0.005	0.22	6.44	128	0.16	27.4	576	2.1
ZZ36816		<0.005	0.33	11.80	89	0.18	31.5	600	2.2
ZZ36817		0.005	0.24	7.36	90	0.13	23.5	396	1.8
ZZ36818		<0.005	0.14	2.20	24	<0.05	6.65	197	1.8
ZZ36819		<0.005	0.58	3.06	88	0.09	7.76	150	1.2
ZZ36820		0.005	0.39	4.71	78	0.13	11.20	194	1.4
ZZ36821		<0.005	0.22	2.64	52	0.11	7.34	139	1.4
ZZ36822		<0.005	0.14	2.02	40	0.08	6.40	101	0.7
ZZ36823		0.005	0.25	1.85	60	0.09	9.85	144	2.0
ZZ36824		<0.005	0.34	1.62	52	0.07	6.90	129	1.7
ZZ36825		<0.005	0.36	2.50	59	0.08	9.44	145	2.4
ZZ36826		<0.005	0.34	1.76	62	0.07	8.26	153	1.9
ZZ36827		<0.005	0.41	8.81	124	0.07	11.60	253	2.7
ZZ36828		<0.005	0.36	2.24	75	0.06	11.00	215	1.6
ZZ36829		0.005	0.13	1.91	40	0.09	12.00	109	1.3
ZZ36830		<0.005	0.12	3.43	37	0.06	13.10	105	2.4
ZZ36831		0.007	0.13	1.11	41	0.16	11.80	108	1.6
ZZ36832		0.007	0.12	1.15	51	0.11	13.50	106	2.4
ZZ36833		0.008	0.10	4.23	36	0.07	8.34	65	1.5
ZZ36834		<0.005	0.13	1.03	30	<0.05	5.96	114	1.2
ZZ36835		0.006	0.15	1.98	41	0.05	11.80	158	2.1
ZZ36836		0.009	0.14	1.32	43	0.09	8.84	95	1.4
ZZ36837		0.005	0.12	1.23	40	<0.05	9.58	109	1.7
ZZ36838		0.006	0.14	0.75	56	<0.05	12.30	132	3.7
ZZ36839		0.005	0.12	1.08	36	0.06	6.55	87	1.3
ZZ36840		0.005	0.26	2.03	47	0.06	10.10	126	1.8



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36841		0.26	0.003	0.36	1.19	38.0	<0.2	<10	280	0.65	0.26	0.19	0.31	17.90	10.8	19
ZZ36842		0.28	0.003	0.67	0.67	19.6	<0.2	<10	370	0.66	0.33	0.23	0.53	13.45	13.1	23
ZZ36843		0.22	0.004	0.80	1.12	28.8	<0.2	<10	700	0.86	0.24	1.42	0.68	13.50	11.9	22
ZZ36844		0.12	0.006	0.69	1.33	16.4	<0.2	<10	770	0.74	0.23	1.58	0.56	13.05	11.2	24
ZZ36845		0.20	0.003	0.21	1.43	34.8	<0.2	<10	400	0.72	0.24	1.25	0.81	25.3	14.1	25
ZZ36846		0.24	0.004	0.18	1.54	15.6	<0.2	<10	370	0.68	0.23	1.43	0.28	19.25	13.8	24
ZZ36847		0.13	0.006	0.12	0.79	8.8	<0.2	<10	540	0.38	0.13	2.97	0.39	7.79	6.0	12
ZZ36848		0.22	0.005	0.34	1.35	27.2	<0.2	<10	360	0.82	0.22	1.47	1.25	22.9	15.4	24
ZZ36849		0.28	0.010	0.24	1.28	20.5	<0.2	<10	300	0.71	0.22	1.65	0.52	18.25	11.2	22
ZZ36850		0.20	0.010	0.28	0.93	16.2	<0.2	10	420	0.60	0.16	3.06	0.68	14.85	9.4	16
ZZ36851		0.12	0.007	0.35	0.82	16.0	<0.2	10	430	0.60	0.14	4.14	0.71	12.65	7.4	14
ZZ36852		0.20	0.007	0.32	0.88	18.6	<0.2	10	450	0.64	0.17	3.28	0.80	16.55	7.1	16
ZZ36853		0.19	0.035	0.23	0.87	13.1	<0.2	10	420	0.48	0.13	3.59	0.64	13.05	7.3	16
ZZ36854		0.27	0.006	0.22	1.88	13.4	<0.2	<10	320	0.86	0.26	0.71	0.54	29.3	15.7	31
ZZ36855		0.27	0.005	0.29	1.36	12.4	<0.2	<10	420	0.72	0.23	1.57	0.61	28.8	11.5	25
ZZ36856		0.19	0.008	0.27	1.32	14.0	<0.2	<10	350	0.69	0.21	1.75	0.32	20.6	8.5	22
ZZ36857		0.18	0.010	0.42	1.32	14.9	<0.2	<10	490	0.74	0.24	1.43	1.01	32.2	11.8	29
ZZ36858		0.26	0.005	0.22	1.62	15.4	<0.2	<10	370	0.69	0.24	0.85	0.28	23.5	13.6	26
ZZ36859		0.22	0.005	0.31	1.40	18.9	<0.2	<10	400	0.73	0.21	1.17	0.93	25.5	13.0	26
ZZ36860		0.16	0.020	0.20	1.37	15.6	<0.2	<10	340	0.67	0.20	1.37	0.41	18.70	11.2	23

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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36841		3.57	40.5	3.74	4.11	<0.05	0.02	0.15	0.039	0.07	8.2	15.8	0.32	342	1.80	<0.01
ZZ36842		2.96	64.0	4.29	2.01	<0.05	0.02	0.43	0.052	0.08	6.3	8.7	0.24	315	1.46	<0.01
ZZ36843		1.39	44.4	2.89	3.18	<0.05	0.07	0.33	0.036	0.08	6.8	15.0	0.35	750	1.35	<0.01
ZZ36844		1.60	38.6	2.65	3.92	<0.05	0.07	0.26	0.030	0.08	6.6	17.1	0.40	1440	1.10	0.01
ZZ36845		0.73	49.1	3.54	4.34	0.05	0.08	0.21	0.032	0.06	11.3	26.4	0.64	403	1.01	0.01
ZZ36846		0.88	48.4	3.48	4.56	<0.05	0.06	0.06	0.029	0.07	7.7	30.3	0.74	510	1.05	0.01
ZZ36847		0.38	18.9	1.76	2.30	<0.05	0.06	0.08	0.019	0.04	3.2	8.8	0.32	1170	0.73	0.01
ZZ36848		0.97	59.6	3.04	4.13	0.05	0.06	0.26	0.033	0.08	12.1	22.7	0.59	516	0.96	<0.01
ZZ36849		0.91	50.7	2.84	3.74	0.05	0.07	0.18	0.026	0.07	9.6	21.8	0.61	381	0.98	0.01
ZZ36850		0.82	45.1	1.77	2.86	<0.05	0.05	0.23	0.025	0.05	8.6	13.3	0.37	594	0.67	0.01
ZZ36851		0.81	68.2	1.46	2.09	<0.05	0.05	0.29	0.018	0.05	9.8	9.8	0.33	422	0.68	0.01
ZZ36852		0.61	50.4	1.73	2.51	<0.05	0.05	0.28	0.022	0.04	9.5	12.0	0.37	1160	0.70	0.01
ZZ36853		0.55	46.8	1.57	2.50	<0.05	0.04	0.21	0.017	0.04	7.4	11.4	0.40	715	0.67	0.01
ZZ36854		0.91	59.6	3.47	5.81	0.06	0.09	0.19	0.035	0.08	13.4	38.8	0.94	122	0.66	0.01
ZZ36855		0.71	35.7	2.50	4.19	0.05	0.08	0.14	0.026	0.05	13.8	21.4	0.52	295	0.53	0.01
ZZ36856		0.85	30.2	2.55	3.60	<0.05	0.04	0.14	0.026	0.05	11.1	16.3	0.44	373	0.89	0.01
ZZ36857		0.72	33.9	2.56	3.99	0.06	0.06	0.15	0.032	0.04	23.5	16.9	0.44	311	1.07	0.01
ZZ36858		0.77	36.2	3.15	5.14	<0.05	0.07	0.17	0.032	0.05	10.3	26.4	0.67	412	0.99	<0.01
ZZ36859		0.59	36.2	2.93	4.29	0.05	0.05	0.19	0.027	0.05	12.6	20.9	0.60	1180	1.36	0.01
ZZ36860		0.68	36.7	2.92	4.36	<0.05	0.06	0.10	0.027	0.07	9.7	24.6	0.62	322	1.07	0.01

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**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36841		0.29	32.3	500	17.6	12.4	<0.001	0.01	0.70	4.3	1.1	0.4	15.4	<0.01	0.03	2.1
ZZ36842		0.06	51.3	330	18.1	8.7	0.007	<0.01	0.77	7.2	2.2	0.5	25.6	<0.01	0.07	2.6
ZZ36843		0.22	34.7	680	16.5	8.3	0.005	0.07	0.56	4.5	2.3	0.4	51.9	<0.01	0.05	1.6
ZZ36844		0.33	30.8	870	12.4	13.8	0.014	0.12	0.59	4.2	1.9	0.4	59.2	<0.01	0.07	1.4
ZZ36845		0.36	32.0	720	18.1	6.6	0.004	0.09	0.63	5.1	1.7	0.3	51.8	<0.01	0.06	1.9
ZZ36846		0.20	31.0	480	13.9	6.1	0.003	0.07	0.60	3.7	0.9	0.3	46.8	<0.01	0.08	1.5
ZZ36847		0.18	14.0	880	9.4	6.7	0.004	0.17	0.37	1.1	1.4	0.3	96.2	<0.01	0.02	0.4
ZZ36848		0.27	36.8	860	20.1	7.6	0.003	0.07	0.73	5.8	1.9	0.3	56.3	<0.01	0.06	1.9
ZZ36849		0.30	29.2	770	15.9	6.6	0.002	0.09	0.65	4.4	1.4	0.3	60.0	<0.01	0.04	1.3
ZZ36850		0.34	23.7	910	11.8	7.3	0.003	0.13	0.67	2.7	2.5	0.3	100.0	<0.01	0.03	0.5
ZZ36851		0.32	20.6	940	10.5	5.9	0.003	0.16	0.73	2.0	3.0	0.2	121.0	<0.01	0.04	0.4
ZZ36852		0.38	19.0	1040	13.7	5.2	0.005	0.16	0.64	2.3	3.1	0.3	101.5	<0.01	0.05	0.5
ZZ36853		0.38	19.3	1090	9.4	5.2	0.003	0.23	0.75	1.5	2.1	0.3	109.0	<0.01	0.04	0.4
ZZ36854		0.26	35.6	720	19.3	7.3	0.003	0.06	0.46	8.0	1.8	0.3	33.2	<0.01	0.08	4.1
ZZ36855		0.86	28.2	750	14.8	6.3	0.003	0.11	0.60	5.0	1.8	0.4	57.3	<0.01	0.03	3.2
ZZ36856		0.47	22.3	680	13.7	6.3	0.002	0.07	0.54	2.9	1.1	0.4	56.9	<0.01	0.05	1.2
ZZ36857		0.47	26.1	1060	16.7	6.0	0.002	0.07	0.53	5.5	1.8	0.5	49.0	<0.01	0.05	2.0
ZZ36858		0.34	29.6	530	16.6	7.4	0.002	0.04	0.49	5.2	0.9	0.4	31.5	<0.01	0.08	2.5
ZZ36859		0.51	31.2	760	15.4	6.3	0.002	0.05	0.69	4.7	1.2	0.5	43.8	<0.01	0.03	2.1
ZZ36860		0.33	27.3	720	12.9	8.3	0.002	0.06	0.55	4.5	1.0	0.4	55.6	<0.01	0.02	1.7

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**CERTIFICATE OF ANALYSIS WH12194521**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36841		0.005	0.18	0.54	44	0.07	6.37	121	0.6
ZZ36842		<0.005	0.12	0.90	46	<0.05	7.85	215	1.5
ZZ36843		<0.005	0.12	1.01	37	0.07	9.88	106	2.0
ZZ36844		0.005	0.17	1.00	40	0.09	8.09	99	1.8
ZZ36845		0.010	0.10	1.44	42	0.16	11.50	101	2.2
ZZ36846		0.006	0.09	0.55	41	0.05	4.09	96	1.7
ZZ36847		<0.005	0.09	0.88	19	<0.05	3.42	44	1.4
ZZ36848		0.006	0.17	1.86	44	0.07	17.15	116	1.7
ZZ36849		0.009	0.11	1.78	39	0.06	12.05	103	1.9
ZZ36850		0.007	0.12	3.39	28	0.06	14.30	88	1.6
ZZ36851		0.008	0.14	3.03	21	0.06	18.45	56	1.7
ZZ36852		0.010	0.11	2.25	27	0.07	14.15	71	1.3
ZZ36853		0.010	0.08	3.75	24	0.06	9.63	68	1.4
ZZ36854		0.006	0.09	0.87	51	0.05	13.30	116	3.1
ZZ36855		0.021	0.10	2.37	46	0.19	11.40	80	2.2
ZZ36856		0.011	0.09	1.98	38	0.13	11.40	62	1.2
ZZ36857		0.013	0.09	3.48	44	0.13	32.6	68	1.9
ZZ36858		0.007	0.09	1.30	48	0.11	9.24	80	1.9
ZZ36859		0.015	0.10	3.14	50	0.14	12.75	103	1.5
ZZ36860		0.008	0.10	0.99	43	0.07	9.41	97	1.9



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**CERTIFICATE OF ANALYSIS WH12194521**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12194522**

Project: ATACRegional- MooseLake- Pyramid  
 P.O. No.: Soil 33  
 This report is for 140 Soil samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36861		0.21	0.003	0.26	1.73	21.5	<0.2	<10	410	0.93	0.25	0.83	0.39	27.0	17.7	28
ZZ36862		0.14	0.012	0.23	1.56	15.9	<0.2	<10	460	0.75	0.24	1.41	0.36	19.50	13.1	23
ZZ36863		0.15	0.011	0.26	1.41	10.6	<0.2	<10	550	0.71	0.21	1.25	0.60	17.40	11.7	22
ZZ36864		0.14	0.001	0.51	1.41	26.7	<0.2	<10	410	0.75	0.22	1.31	0.45	15.25	12.1	25
ZZ36865		0.11	0.010	0.43	1.20	13.8	<0.2	10	660	0.62	0.16	2.35	1.05	11.00	7.7	18
ZZ36866		0.28	0.003	0.31	1.90	17.2	<0.2	<10	450	1.02	0.27	0.83	0.47	26.8	14.7	29
ZZ36867		0.19	0.008	0.22	1.68	14.2	<0.2	<10	490	0.88	0.23	1.81	0.77	20.2	14.0	24
ZZ36868		0.23	0.002	0.18	1.70	17.6	<0.2	<10	240	0.78	0.26	0.95	0.28	22.0	12.8	26
ZZ36869		0.20	0.003	0.25	1.62	23.8	<0.2	<10	350	0.88	0.25	1.15	0.42	25.1	16.4	25
ZZ36870		0.17	0.005	0.13	1.72	11.7	<0.2	<10	220	0.71	0.26	1.40	0.33	24.2	16.4	24
ZZ36871		0.16	0.008	0.21	1.20	17.8	<0.2	<10	380	0.58	0.19	1.96	0.69	16.30	11.0	19
ZZ36872		0.14	0.009	0.17	1.31	13.3	<0.2	<10	430	0.63	0.17	2.46	0.72	15.65	11.4	20
ZZ36873		0.25	0.002	0.14	1.75	15.0	<0.2	<10	310	0.87	0.26	0.87	0.28	29.7	18.2	27
ZZ36874		0.26	0.001	0.46	1.35	113.0	<0.2	<10	490	0.91	0.21	0.81	0.85	21.1	10.3	27
ZZ36875		0.16	0.009	0.18	0.92	6.6	<0.2	10	610	0.40	0.13	3.17	0.62	10.15	7.2	15
ZZ36876		0.22	0.011	0.36	1.26	17.4	<0.2	<10	670	0.78	0.23	1.41	0.57	22.0	8.1	25
ZZ36877		0.22	0.003	0.18	2.20	11.0	<0.2	<10	350	0.91	0.24	0.98	0.32	30.7	21.1	34
ZZ36878		0.12	0.013	0.35	1.20	20.6	<0.2	<10	570	0.64	0.19	2.15	0.54	13.30	10.1	20
ZZ36879		0.10	0.019	1.51	0.79	25.1	<0.2	10	1430	0.71	0.21	1.65	1.99	5.92	7.5	11
ZZ36880		0.15	0.009	0.61	0.69	85.5	<0.2	10	430	0.59	0.17	1.19	5.02	13.50	8.1	14
ZZ36881		0.24	0.002	0.29	0.84	34.4	<0.2	<10	200	0.78	0.21	0.69	2.33	26.8	9.6	15
ZZ36882		0.19	0.002	0.69	0.57	15.5	<0.2	<10	160	0.88	0.25	0.67	2.74	16.45	14.8	11
ZZ36883		0.20	0.001	0.09	1.82	14.5	<0.2	<10	160	0.63	0.30	0.26	0.28	21.0	9.5	31
ZZ36884		0.20	0.001	0.11	2.01	11.8	<0.2	<10	160	0.54	0.26	0.11	0.17	23.3	7.6	26
ZZ36885		0.19	0.001	0.04	1.99	12.5	<0.2	<10	220	0.66	0.29	0.10	0.10	24.2	8.3	28
ZZ36886		0.25	0.002	0.04	2.10	13.5	<0.2	<10	190	0.74	0.27	0.10	0.14	24.6	10.1	29
ZZ36887		0.26	0.001	0.04	1.83	29.7	<0.2	<10	150	0.63	0.29	0.17	0.24	23.7	11.4	30
ZZ36888		0.23	0.001	0.07	1.48	14.7	<0.2	<10	190	0.74	0.30	0.10	0.27	26.3	11.7	26
ZZ36889		0.20	0.001	0.05	1.62	9.5	<0.2	<10	130	0.30	0.32	0.04	0.15	21.9	4.9	21
ZZ36890		0.21	0.001	0.02	1.34	9.3	<0.2	<10	100	0.37	0.34	0.04	0.09	23.0	6.5	23
ZZ36891		0.21	0.001	0.04	1.55	8.2	<0.2	<10	90	0.31	0.30	0.06	0.15	18.90	4.5	24
ZZ36892		0.20	0.003	0.05	1.67	16.1	<0.2	<10	140	0.51	0.34	0.11	0.33	19.40	9.4	33
ZZ36893		0.26	0.007	0.04	2.06	19.3	<0.2	<10	110	1.23	0.59	0.02	0.16	14.20	22.0	34
ZZ36894		0.25	0.004	0.04	1.91	17.3	<0.2	<10	180	1.53	0.51	0.06	0.35	23.5	20.8	33
ZZ36895		0.25	0.002	0.06	1.30	7.9	<0.2	<10	190	1.00	0.36	0.22	0.27	9.52	17.8	25
ZZ36896		0.19	0.002	0.42	1.37	14.9	<0.2	<10	340	0.85	0.25	1.04	0.79	22.9	8.1	27
ZZ36897		0.22	0.001	0.20	1.37	12.9	<0.2	<10	180	0.50	0.24	0.06	0.40	18.55	6.4	24
ZZ36898		0.19	0.002	0.25	1.52	16.0	<0.2	<10	260	0.56	0.20	0.13	1.31	33.8	11.9	49
ZZ36899		0.21	0.002	0.41	1.33	9.7	<0.2	<10	690	0.42	0.25	0.44	0.33	20.1	4.5	22
ZZ36900		0.17	0.002	0.19	1.85	10.7	<0.2	<10	520	0.56	0.26	1.23	0.39	20.6	8.4	28

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ36861		1.22	64.1	3.91	5.48	0.06	0.11	0.13	0.038	0.11	12.8	36.9	0.78	499	1.57	<0.01
ZZ36862		1.00	51.4	3.28	4.48	<0.05	0.08	0.13	0.030	0.10	9.2	31.6	0.67	364	0.99	<0.01
ZZ36863		1.00	47.3	2.48	4.22	<0.05	0.08	0.13	0.031	0.08	8.8	25.9	0.53	262	0.77	<0.01
ZZ36864		1.01	39.6	3.07	4.35	0.05	0.10	0.18	0.032	0.10	7.4	26.5	0.60	391	1.09	<0.01
ZZ36865		0.90	52.8	1.96	3.54	0.05	0.11	0.16	0.024	0.08	5.6	18.5	0.48	292	0.75	0.01
ZZ36866		1.29	75.4	4.03	5.70	0.05	0.11	0.14	0.037	0.12	13.4	39.3	0.84	369	1.50	<0.01
ZZ36867		1.05	58.5	3.31	4.71	<0.05	0.08	0.12	0.028	0.10	10.4	29.9	0.64	503	1.33	<0.01
ZZ36868		0.93	59.2	3.82	4.98	0.05	0.10	0.09	0.038	0.10	12.3	33.4	0.73	276	1.10	<0.01
ZZ36869		0.92	60.6	3.75	4.86	0.05	0.08	0.16	0.034	0.09	11.8	36.4	0.70	496	1.49	<0.01
ZZ36870		1.11	53.1	3.49	4.88	0.05	0.12	0.08	0.027	0.12	10.9	37.1	0.74	511	0.76	<0.01
ZZ36871		0.84	53.4	2.64	3.70	<0.05	0.04	0.08	0.030	0.05	7.4	19.8	0.50	548	1.07	<0.01
ZZ36872		0.90	52.6	2.64	3.85	<0.05	0.07	0.10	0.029	0.06	7.7	17.7	0.61	424	0.83	<0.01
ZZ36873		0.92	59.7	3.86	5.72	0.06	0.07	0.12	0.031	0.08	13.3	36.3	0.82	543	0.83	<0.01
ZZ36874		0.79	41.8	3.28	4.20	0.05	0.05	0.20	0.028	0.05	15.3	17.8	0.53	343	3.37	<0.01
ZZ36875		0.44	31.9	1.65	2.76	<0.05	0.05	0.13	0.018	0.03	5.8	12.8	0.44	535	0.68	<0.01
ZZ36876		0.98	38.3	2.73	3.85	0.05	0.04	0.17	0.030	0.06	13.2	17.5	0.41	287	1.36	<0.01
ZZ36877		1.13	99.5	4.17	7.05	0.06	0.06	0.16	0.041	0.09	15.8	33.1	1.19	575	0.89	<0.01
ZZ36878		1.59	48.2	2.58	3.67	<0.05	0.06	0.17	0.029	0.07	6.7	17.8	0.51	291	1.57	<0.01
ZZ36879		11.10	66.8	3.24	2.01	0.05	0.06	0.65	0.040	0.16	3.0	4.4	0.17	235	2.52	<0.01
ZZ36880		4.14	49.1	2.07	2.15	0.06	0.05	0.32	0.030	0.07	6.9	7.3	0.19	101	10.00	<0.01
ZZ36881		3.36	43.2	2.18	2.97	0.05	0.06	0.15	0.033	0.11	11.5	15.1	0.30	176	5.60	<0.01
ZZ36882		1.71	60.2	2.27	2.10	0.05	0.09	0.07	0.033	0.11	7.3	8.2	0.19	345	6.17	<0.01
ZZ36883		1.83	17.2	3.51	7.48	<0.05	0.03	0.02	0.037	0.04	10.4	32.7	0.58	329	1.94	<0.01
ZZ36884		1.55	11.9	3.18	6.47	<0.05	0.02	0.01	0.031	0.04	11.1	22.7	0.31	314	1.34	0.01
ZZ36885		1.79	13.0	3.54	6.75	<0.05	0.04	0.01	0.032	0.05	12.0	28.3	0.37	265	1.45	0.01
ZZ36886		1.64	18.5	3.50	5.88	<0.05	0.03	0.02	0.033	0.05	11.2	25.7	0.41	233	1.51	0.01
ZZ36887		10.85	17.6	3.74	5.42	<0.05	0.02	0.02	0.039	0.06	10.9	58.9	0.49	349	2.20	0.01
ZZ36888		2.03	25.4	2.98	4.90	<0.05	<0.02	0.05	0.027	0.07	11.5	15.0	0.38	574	1.74	0.01
ZZ36889		1.93	11.0	2.62	6.76	<0.05	<0.02	0.02	0.021	0.05	10.7	9.0	0.16	275	1.64	0.01
ZZ36890		2.67	13.2	2.64	7.52	<0.05	<0.02	0.04	0.021	0.06	11.5	6.2	0.15	562	1.76	0.01
ZZ36891		2.09	11.1	2.42	6.35	<0.05	<0.02	0.04	0.023	0.05	9.6	9.2	0.23	261	1.53	0.01
ZZ36892		1.60	16.3	3.75	6.17	<0.05	<0.02	0.02	0.027	0.08	8.7	20.3	0.46	489	1.66	0.01
ZZ36893		3.10	42.3	4.72	6.83	<0.05	0.06	0.01	0.047	0.06	6.0	28.5	0.53	1520	1.27	0.01
ZZ36894		3.94	51.9	4.73	6.19	<0.05	0.05	0.03	0.046	0.08	8.5	24.3	0.46	1640	2.08	0.01
ZZ36895		3.62	22.4	4.03	4.43	<0.05	<0.02	0.02	0.025	0.09	4.0	17.9	0.33	1960	1.87	0.01
ZZ36896		3.28	30.3	3.15	3.82	<0.05	0.07	0.19	0.038	0.09	11.3	22.1	0.37	326	2.73	0.01
ZZ36897		1.84	18.9	2.83	4.98	<0.05	<0.02	0.05	0.024	0.08	8.4	8.3	0.18	359	3.65	0.01
ZZ36898		1.38	39.4	4.93	5.99	<0.05	<0.02	0.04	0.043	0.09	15.1	13.5	0.44	415	5.10	0.01
ZZ36899		1.42	10.9	1.90	5.44	<0.05	<0.02	0.03	0.026	0.07	9.8	9.2	0.21	165	4.29	0.01
ZZ36900		1.31	14.7	2.95	5.54	<0.05	0.06	0.02	0.027	0.07	9.7	24.2	0.49	552	2.10	0.01

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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36861		0.19	42.5	610	17.6	8.0	0.001	0.03	0.79	7.0	1.1	0.4	44.2	<0.01	0.04	3.8
ZZ36862		0.16	30.2	620	15.4	7.7	0.001	0.06	0.65	5.1	1.3	0.3	54.3	<0.01	0.04	2.0
ZZ36863		0.28	28.2	850	13.5	8.5	0.002	0.15	0.54	4.3	1.6	0.3	53.6	<0.01	0.05	1.5
ZZ36864		0.20	33.6	930	14.2	10.1	0.006	0.12	0.49	5.5	3.9	0.4	61.7	<0.01	0.08	2.1
ZZ36865		0.19	28.4	1130	9.8	8.5	0.016	0.34	0.57	4.0	8.5	0.3	85.0	<0.01	0.03	1.4
ZZ36866		0.15	42.8	720	16.4	8.6	0.001	0.04	0.86	7.4	2.1	0.4	44.7	<0.01	0.06	3.5
ZZ36867		0.16	33.8	760	15.5	7.7	0.001	0.06	0.81	4.4	1.4	0.3	81.4	<0.01	0.03	1.5
ZZ36868		0.15	33.4	410	15.8	7.5	0.001	0.03	0.72	7.1	1.0	0.3	45.6	<0.01	0.06	3.1
ZZ36869		0.16	37.7	510	19.1	7.0	0.001	0.04	0.87	6.5	1.5	0.3	47.9	<0.01	0.06	2.6
ZZ36870		0.17	33.1	760	16.0	6.8	0.001	0.05	0.56	4.7	0.9	0.3	68.7	<0.01	0.04	2.6
ZZ36871		0.32	28.3	660	13.6	8.0	0.001	0.07	0.65	4.1	1.3	0.3	79.2	<0.01	0.04	0.9
ZZ36872		0.20	24.9	760	12.0	6.5	0.001	0.10	0.56	4.2	1.3	0.3	86.3	<0.01	0.04	0.8
ZZ36873		0.24	36.0	610	18.9	6.8	<0.001	0.03	0.52	6.1	1.4	0.4	39.8	<0.01	0.07	2.9
ZZ36874		0.36	37.0	460	17.0	7.9	<0.001	0.04	1.16	6.0	2.4	0.5	37.1	<0.01	0.06	2.2
ZZ36875		0.31	20.3	990	9.1	4.9	0.002	0.16	0.69	1.7	2.6	0.3	93.8	<0.01	0.04	0.4
ZZ36876		0.63	27.0	620	16.9	8.3	<0.001	0.05	0.72	4.8	1.1	0.5	50.1	<0.01	0.02	1.6
ZZ36877		0.24	42.3	530	14.6	7.6	0.001	0.03	0.56	9.2	1.1	0.4	37.3	<0.01	0.08	2.4
ZZ36878		0.31	31.2	740	11.8	9.5	0.002	0.09	0.89	4.2	1.5	0.4	69.0	<0.01	0.05	1.0
ZZ36879		0.18	47.9	530	10.5	20.3	0.014	0.19	3.09	3.7	11.9	0.4	88.9	<0.01	0.10	1.2
ZZ36880		0.18	67.0	640	12.8	13.3	0.060	0.27	2.34	3.8	14.7	0.4	60.4	<0.01	0.05	2.0
ZZ36881		0.15	37.1	900	18.8	11.7	0.013	0.06	1.27	6.4	3.8	0.4	35.7	<0.01	0.04	4.7
ZZ36882		0.15	42.4	890	19.2	8.5	0.007	0.05	3.62	5.2	3.4	0.4	33.5	0.01	0.03	5.4
ZZ36883		1.05	22.1	300	18.2	8.8	0.001	0.01	0.68	3.2	0.5	0.8	15.0	<0.01	0.03	3.2
ZZ36884		1.47	17.2	250	15.2	9.8	<0.001	0.01	0.56	2.8	0.2	0.7	9.3	<0.01	0.05	3.0
ZZ36885		1.53	19.5	230	15.9	11.6	<0.001	0.01	0.57	3.0	0.6	0.8	9.5	<0.01	0.06	4.0
ZZ36886		1.22	25.7	290	15.2	10.8	<0.001	0.02	0.62	3.2	0.3	0.6	8.9	<0.01	0.05	3.8
ZZ36887		1.16	23.4	350	14.9	11.6	<0.001	0.02	0.60	3.5	0.5	0.5	13.0	<0.01	0.06	3.2
ZZ36888		0.39	25.2	790	19.9	12.0	<0.001	0.04	0.84	1.4	0.9	0.6	10.5	<0.01	0.04	0.5
ZZ36889		0.85	10.2	300	12.9	14.8	<0.001	0.01	0.45	2.3	0.4	0.8	7.5	0.04	0.02	2.0
ZZ36890		0.35	11.4	500	11.9	14.5	<0.001	0.03	0.70	0.8	0.3	1.0	7.8	<0.01	0.04	<0.2
ZZ36891		0.31	11.0	690	13.0	13.9	<0.001	0.03	0.53	0.5	0.7	0.7	7.9	<0.01	0.04	<0.2
ZZ36892		0.53	20.4	730	19.0	13.3	0.001	0.05	0.77	1.4	0.6	0.6	12.0	<0.01	0.04	0.4
ZZ36893		0.46	30.1	570	37.4	9.5	<0.001	0.03	0.47	3.9	0.5	0.7	8.2	<0.01	0.04	3.3
ZZ36894		0.42	32.3	960	35.6	11.3	0.001	0.03	0.66	4.2	1.0	0.6	9.9	<0.01	0.05	3.0
ZZ36895		0.24	22.3	1500	32.2	13.6	<0.001	0.10	0.57	0.8	0.4	0.5	12.5	<0.01	0.05	0.4
ZZ36896		0.51	30.3	1520	16.5	18.7	0.001	0.11	1.17	3.3	2.0	0.5	49.6	<0.01	0.05	1.2
ZZ36897		0.22	19.1	1480	11.4	14.6	0.001	0.07	1.04	0.5	0.7	0.6	7.6	<0.01	0.03	<0.2
ZZ36898		0.30	44.0	1670	17.6	15.1	<0.001	0.05	1.20	1.3	0.8	0.7	11.4	<0.01	0.06	0.3
ZZ36899		0.22	17.7	1040	10.3	12.5	<0.001	0.04	0.71	0.5	0.9	0.7	29.7	<0.01	0.06	<0.2
ZZ36900		0.71	18.6	2150	13.0	13.6	0.001	0.12	0.66	2.1	1.5	0.6	66.9	0.01	0.02	0.9

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36861		0.005	0.11	0.68	47	0.06	12.65	109	3.6
ZZ36862		<0.005	0.10	1.16	39	<0.05	10.05	100	2.6
ZZ36863		0.006	0.11	1.72	35	0.05	10.95	105	2.6
ZZ36864		<0.005	0.13	1.61	47	<0.05	11.15	143	2.8
ZZ36865		<0.005	0.11	4.83	34	<0.05	10.30	102	3.3
ZZ36866		0.005	0.13	0.90	51	<0.05	13.00	112	3.3
ZZ36867		<0.005	0.10	1.32	45	<0.05	11.90	86	2.7
ZZ36868		<0.005	0.10	0.76	48	<0.05	12.20	92	2.7
ZZ36869		<0.005	0.13	1.11	51	<0.05	11.20	106	2.6
ZZ36870		0.005	0.08	0.98	38	<0.05	8.96	97	3.8
ZZ36871		0.009	0.10	1.06	39	0.06	7.85	105	1.6
ZZ36872		0.006	0.08	1.45	35	<0.05	9.21	71	1.9
ZZ36873		0.007	0.07	0.95	45	0.05	10.20	78	2.0
ZZ36874		0.008	0.15	1.21	76	0.15	18.75	128	1.6
ZZ36875		0.008	0.07	2.56	30	0.14	7.24	86	1.2
ZZ36876		0.017	0.13	1.59	49	0.16	16.40	84	1.1
ZZ36877		0.009	0.08	1.05	65	0.08	13.50	82	1.9
ZZ36878		0.007	0.19	1.38	38	0.09	8.93	152	1.8
ZZ36879		<0.005	0.55	0.85	43	0.05	11.10	107	2.2
ZZ36880		<0.005	0.71	7.11	133	0.08	11.55	359	1.9
ZZ36881		<0.005	0.41	1.60	70	0.05	12.25	207	2.8
ZZ36882		<0.005	0.18	2.90	37	<0.05	12.00	230	4.0
ZZ36883		0.025	0.15	1.01	63	0.26	3.12	58	1.1
ZZ36884		0.032	0.16	0.50	64	0.30	2.93	61	0.6
ZZ36885		0.034	0.14	0.56	64	0.27	3.05	67	1.8
ZZ36886		0.025	0.13	0.61	55	0.26	3.61	57	1.0
ZZ36887		0.030	0.14	1.54	47	0.22	3.93	81	0.7
ZZ36888		0.017	0.14	0.96	42	0.21	5.64	89	<0.5
ZZ36889		0.014	0.21	0.55	56	0.19	2.64	44	<0.5
ZZ36890		0.022	0.18	0.67	58	0.21	2.88	50	<0.5
ZZ36891		0.017	0.17	0.70	49	0.19	2.50	47	<0.5
ZZ36892		0.023	0.13	0.74	53	0.25	3.18	103	<0.5
ZZ36893		0.008	0.09	0.98	33	0.10	5.36	98	1.5
ZZ36894		0.009	0.12	1.01	39	0.10	7.21	110	1.3
ZZ36895		0.010	0.09	0.70	32	0.11	2.77	104	<0.5
ZZ36896		0.014	0.21	0.99	46	0.10	10.40	182	1.9
ZZ36897		0.007	0.25	0.86	58	0.11	4.14	97	<0.5
ZZ36898		0.009	0.20	0.84	74	0.09	4.02	136	<0.5
ZZ36899		0.009	0.32	1.11	64	0.18	4.23	87	<0.5
ZZ36900		0.018	0.20	1.94	60	0.17	5.48	109	1.2



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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36901		0.13	0.002	0.47	1.39	8.7	<0.2	<10	350	0.59	0.20	1.55	1.22	21.6	6.4	30
ZZ36902		0.18	0.001	0.16	1.66	16.5	<0.2	<10	170	0.50	0.23	0.06	0.43	25.8	9.0	23
ZZ36903		0.24	0.001	0.15	1.52	14.5	<0.2	<10	210	0.59	0.23	0.36	0.56	25.4	8.3	22
ZZ36904		0.20	0.002	0.10	1.31	12.9	<0.2	<10	150	0.36	0.22	0.06	0.27	18.40	3.4	21
ZZ36905		0.19	0.001	0.20	1.47	12.5	<0.2	<10	360	0.61	0.23	0.65	0.42	18.80	5.3	22
ZZ36906		0.24	0.003	0.60	0.89	14.3	<0.2	<10	380	0.55	0.19	0.75	0.67	20.9	5.3	15
ZZ36907		0.22	0.003	0.30	1.10	24.4	<0.2	<10	300	0.56	0.20	0.10	0.74	14.75	5.7	21
ZZ36908		0.21	0.002	0.16	1.04	14.8	<0.2	<10	230	0.40	0.19	0.07	0.32	13.00	4.2	18
ZZ36909		0.21	0.001	0.27	0.78	13.0	<0.2	<10	320	0.37	0.20	0.07	0.50	15.55	4.2	15
ZZ36910		0.18	0.002	0.27	1.41	14.2	<0.2	<10	340	0.63	0.22	0.34	1.22	21.5	8.9	28
ZZ36911		0.18	<0.001	0.27	1.41	6.9	<0.2	<10	510	0.37	0.19	0.30	0.28	12.65	2.9	22
ZZ36912		0.22	0.002	0.40	0.73	14.2	<0.2	<10	690	0.46	0.17	0.45	1.22	23.4	7.5	18
ZZ36913		0.28	0.003	0.55	1.23	14.2	<0.2	<10	1280	0.77	0.24	0.59	2.48	19.30	10.3	24
ZZ36914		0.21	0.001	0.35	1.33	15.0	<0.2	<10	770	0.60	0.22	0.19	1.00	18.10	8.1	24
ZZ36915		0.19	0.002	0.70	1.18	12.4	<0.2	<10	600	0.60	0.18	1.75	4.19	14.90	5.7	26
ZZ36916		0.23	<0.001	0.23	0.72	14.9	<0.2	<10	580	0.47	0.24	0.60	1.61	13.80	8.2	16
ZZ36917		0.22	<0.001	0.52	0.66	17.7	<0.2	<10	1740	0.43	0.19	0.33	1.63	10.05	4.1	16
ZZ36918		0.32	0.003	0.78	0.76	21.8	<0.2	<10	1120	0.55	0.18	0.42	1.84	12.25	4.9	18
ZZ36919		0.25	<0.001	0.33	0.49	17.6	<0.2	<10	270	0.25	0.21	0.02	0.30	7.85	2.8	13
ZZ36920		0.24	0.001	0.34	0.81	19.4	<0.2	<10	690	0.27	0.33	0.04	0.75	16.00	4.0	17
ZZ36921		0.19	0.002	0.43	0.75	25.9	<0.2	<10	330	0.31	0.26	0.03	0.73	12.65	3.0	17
ZZ36922		0.24	0.001	0.93	0.93	31.3	<0.2	<10	450	0.66	0.23	0.06	2.20	12.90	4.8	23
ZZ36923		0.26	0.004	1.32	0.49	24.9	<0.2	<10	790	0.49	0.15	0.09	4.43	9.34	2.2	15
ZZ36924		0.26	0.003	0.51	0.51	22.1	<0.2	<10	700	0.54	0.28	0.19	1.01	9.26	3.9	13
ZZ36925		0.23	0.002	0.34	0.98	28.0	<0.2	<10	330	0.52	0.22	0.04	0.57	14.65	5.4	19
ZZ36926		0.19	0.003	0.56	0.40	9.9	<0.2	<10	410	0.34	0.20	0.10	0.91	7.71	1.2	8
ZZ36927		0.25	<0.001	0.34	0.63	16.6	<0.2	<10	220	0.27	0.21	0.02	0.38	9.06	2.4	11
ZZ36928		0.27	<0.001	0.11	0.34	8.9	<0.2	<10	150	0.16	0.25	0.02	0.12	8.97	1.2	7
ZZ36929		0.31	<0.001	0.14	0.23	9.5	<0.2	<10	190	0.16	0.21	0.02	0.32	4.84	0.8	8
ZZ36930		0.27	<0.001	0.11	0.31	18.8	<0.2	<10	130	0.10	0.27	0.02	0.10	9.17	1.0	9
ZZ36931		0.31	0.001	0.20	0.40	26.8	<0.2	<10	420	0.22	0.28	0.03	0.10	9.58	1.5	10
ZZ36932		0.25	0.001	0.57	1.13	35.7	<0.2	<10	780	0.86	0.22	0.06	3.59	10.40	6.6	18
ZZ36933		0.26	0.004	5.18	0.59	18.6	<0.2	<10	1170	0.61	0.22	0.43	5.90	10.50	1.1	30
ZZ36934		0.25	0.010	4.69	1.46	37.9	<0.2	<10	3140	1.27	0.21	1.18	24.9	13.95	13.8	43
ZZ36935		0.22	0.010	1.71	0.67	18.1	<0.2	<10	2200	0.49	0.14	2.64	10.20	7.53	6.9	27
ZZ36936		0.32	0.003	1.63	0.51	25	<0.2	<10	2880	0.44	0.18	12.20	5.74	9.76	16.1	32
ZZ36937		0.12	<0.001	0.24	0.26	1.8	<0.2	<10	770	0.13	0.06	3.42	1.56	3.06	1.7	5
ZZ36938		0.21	<0.001	0.12	0.64	2.4	<0.2	<10	1960	0.25	0.12	2.32	1.00	7.07	3.5	7
ZZ36939		0.27	0.010	0.81	1.48	19.8	<0.2	<10	1290	0.88	0.20	1.16	2.87	27.2	10.8	27
ZZ36940		0.31	0.003	3.13	0.73	21	<0.2	<10	1110	0.56	0.21	13.55	3.77	11.45	18.8	32



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ36901		2.10	21.4	2.45	3.68	<0.05	0.08	0.13	0.029	0.06	11.8	19.4	0.44	279	2.42	0.01
ZZ36902		2.13	22.0	3.73	5.46	<0.05	<0.02	0.06	0.042	0.07	11.4	17.1	0.22	289	6.65	0.01
ZZ36903		1.63	20.1	3.12	5.45	<0.05	0.02	0.02	0.031	0.07	11.8	17.9	0.26	334	5.33	0.01
ZZ36904		1.39	12.6	2.28	4.99	<0.05	<0.02	0.05	0.024	0.06	8.9	9.9	0.20	132	6.12	0.01
ZZ36905		1.44	12.5	2.26	4.55	<0.05	0.02	0.03	0.033	0.06	9.0	15.4	0.29	546	5.18	0.01
ZZ36906		1.00	29.8	2.12	2.67	<0.05	0.02	0.11	0.028	0.07	10.5	10.5	0.20	342	10.10	0.01
ZZ36907		1.25	28.0	2.72	3.04	<0.05	0.02	0.05	0.040	0.10	7.6	11.0	0.21	221	12.90	0.01
ZZ36908		1.28	17.0	2.14	4.06	<0.05	<0.02	0.02	0.023	0.06	6.6	6.8	0.14	202	7.79	0.01
ZZ36909		1.26	21.0	1.80	3.15	<0.05	<0.02	0.05	0.021	0.07	7.7	3.9	0.09	235	9.47	0.01
ZZ36910		1.11	17.9	2.68	4.45	<0.05	<0.02	0.23	0.029	0.09	10.2	13.0	0.34	533	5.99	0.01
ZZ36911		1.87	9.2	1.63	4.95	<0.05	0.02	0.04	0.023	0.05	6.4	12.5	0.21	84	2.76	0.01
ZZ36912		0.95	31.3	2.35	2.53	<0.05	0.08	0.11	0.026	0.09	11.5	7.0	0.19	234	7.95	0.01
ZZ36913		1.25	31.5	2.53	4.04	<0.05	0.04	0.13	0.036	0.07	9.6	17.0	0.31	2270	6.32	0.01
ZZ36914		1.21	13.8	2.63	4.74	<0.05	<0.02	0.03	0.027	0.07	8.6	13.0	0.29	383	5.16	0.01
ZZ36915		0.53	27.9	2.03	3.27	<0.05	0.10	0.25	0.026	0.06	8.9	9.5	0.34	274	3.42	0.01
ZZ36916		1.15	27.8	2.34	3.44	<0.05	<0.02	0.01	0.026	0.09	6.6	3.9	0.11	567	7.66	0.01
ZZ36917		0.89	29.6	1.77	2.57	<0.05	<0.02	0.05	0.025	0.08	5.3	3.6	0.08	128	11.00	<0.01
ZZ36918		1.23	32.7	1.92	2.68	<0.05	<0.02	0.15	0.035	0.09	6.6	6.2	0.12	178	11.80	0.01
ZZ36919		1.57	20.4	1.66	2.89	<0.05	<0.02	0.03	0.021	0.09	3.9	1.3	0.03	600	12.30	0.01
ZZ36920		1.75	20.0	2.03	4.93	<0.05	<0.02	0.18	0.028	0.09	7.8	3.1	0.08	151	19.90	0.01
ZZ36921		1.39	24.9	1.92	3.91	<0.05	<0.02	0.29	0.030	0.08	6.3	4.1	0.12	109	16.20	<0.01
ZZ36922		1.39	48.4	2.35	3.79	<0.05	0.03	0.17	0.054	0.09	6.7	4.3	0.09	213	23.1	<0.01
ZZ36923		1.28	60.7	1.29	2.44	<0.05	0.02	0.20	0.034	0.08	4.8	2.3	0.06	41	16.45	0.01
ZZ36924		2.16	26.7	1.21	2.23	<0.05	0.03	0.56	0.033	0.11	4.4	3.2	0.09	240	14.50	0.01
ZZ36925		1.46	33.8	2.29	3.56	<0.05	0.03	0.08	0.027	0.07	6.6	10.3	0.22	253	7.11	<0.01
ZZ36926		1.28	23.2	0.82	1.54	<0.05	0.03	0.16	0.016	0.08	3.7	2.2	0.06	38	8.94	<0.01
ZZ36927		1.29	18.9	1.56	2.96	<0.05	<0.02	0.14	0.020	0.07	4.6	1.5	0.05	75	16.20	<0.01
ZZ36928		2.08	12.1	0.65	2.29	<0.05	<0.02	0.03	0.008	0.07	4.5	0.6	0.02	32	10.80	<0.01
ZZ36929		1.77	15.1	0.71	1.29	<0.05	<0.02	0.04	0.030	0.09	2.4	0.6	0.02	26	13.00	<0.01
ZZ36930		3.15	11.6	0.87	2.58	<0.05	<0.02	0.03	0.022	0.08	4.3	0.6	0.02	23	20.5	<0.01
ZZ36931		0.82	19.3	1.48	2.61	<0.05	<0.02	0.07	0.043	0.15	4.9	0.9	0.03	67	30.2	<0.01
ZZ36932		1.46	69.1	2.36	2.53	0.05	0.02	0.10	0.036	0.09	5.2	2.8	0.05	98	37.2	0.01
ZZ36933		1.23	74.7	1.70	2.60	0.08	0.02	0.13	0.034	0.15	6.2	1.9	0.04	25	24.8	0.01
ZZ36934		1.47	99.4	3.78	3.48	0.07	0.05	0.35	0.045	0.07	10.3	7.1	0.15	221	32.7	<0.01
ZZ36935		0.85	37.2	1.79	1.75	<0.05	0.06	0.22	0.026	0.04	6.8	2.3	0.09	184	22.0	<0.01
ZZ36936		0.79	41.4	2.36	1.71	0.06	0.05	0.23	0.030	0.07	7.8	3.3	0.26	336	37.2	<0.01
ZZ36937		0.19	6.8	0.37	0.66	<0.05	0.02	0.13	0.007	0.03	2.3	0.4	0.04	145	1.26	0.01
ZZ36938		0.42	13.3	0.77	1.82	<0.05	0.03	0.11	0.011	0.02	5.2	1.2	0.04	314	0.97	0.01
ZZ36939		0.95	21.8	2.96	3.96	0.06	0.04	0.11	0.034	0.05	11.0	14.4	0.20	311	8.80	0.01
ZZ36940		1.12	74.3	3.41	2.02	0.05	0.05	0.21	0.033	0.09	9.2	4.2	0.21	341	20.2	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36901		0.62	23.7	1660	11.6	11.7	0.003	0.16	0.99	2.9	2.1	0.4	72.1	<0.01	0.04	0.9
ZZ36902		0.79	22.7	1070	15.9	13.5	0.001	0.05	1.80	2.5	1.2	0.6	14.6	<0.01	0.06	0.9
ZZ36903		0.40	20.0	1490	12.5	13.8	0.001	0.07	1.13	1.2	0.8	0.6	25.8	<0.01	0.06	0.4
ZZ36904		0.42	13.1	760	12.4	11.7	0.001	0.04	1.08	0.7	0.9	0.6	11.9	<0.01	0.04	0.2
ZZ36905		0.35	18.3	1310	10.9	10.8	0.001	0.08	1.09	1.3	0.8	0.5	31.2	<0.01	0.06	0.4
ZZ36906		0.35	26.5	800	13.6	8.5	0.002	0.10	2.73	1.7	2.2	0.4	38.1	<0.01	0.07	0.3
ZZ36907		0.32	30.1	890	14.4	9.1	0.002	0.16	2.95	1.5	2.8	0.5	45.2	<0.01	0.13	0.4
ZZ36908		0.21	17.7	760	11.5	10.1	0.002	0.06	1.71	0.5	1.3	0.6	18.6	<0.01	0.08	<0.2
ZZ36909		0.16	16.6	1110	13.1	11.6	0.002	0.08	1.64	0.6	1.3	0.5	18.6	<0.01	0.07	<0.2
ZZ36910		0.24	31.6	1380	13.6	14.8	0.001	0.06	1.35	0.9	1.3	0.6	22.8	<0.01	0.07	0.2
ZZ36911		0.37	11.3	1610	8.4	8.7	<0.001	0.08	0.68	1.1	0.9	0.6	17.7	<0.01	0.03	0.3
ZZ36912		0.43	30.6	1470	12.5	7.6	0.001	0.11	2.29	2.8	2.1	0.4	37.9	<0.01	0.04	1.1
ZZ36913		0.32	39.8	1090	15.3	10.6	0.005	0.06	1.76	2.8	1.7	0.5	39.8	<0.01	0.08	0.8
ZZ36914		0.22	29.3	1400	12.8	14.6	0.001	0.07	1.52	0.6	0.9	0.5	28.5	<0.01	0.04	0.2
ZZ36915		0.54	29.8	2150	11.8	8.7	0.006	0.19	1.75	2.3	2.4	0.4	55.2	0.01	0.03	1.1
ZZ36916		0.11	23.8	1800	14.8	17.4	0.002	0.10	2.03	0.4	1.4	0.5	34.8	<0.01	0.06	<0.2
ZZ36917		0.08	24.0	1340	11.8	6.7	0.002	0.11	2.55	0.5	2.5	0.4	35.9	<0.01	0.09	<0.2
ZZ36918		0.17	44.7	1330	12.5	9.6	0.005	0.13	2.99	1.1	3.5	0.4	51.4	<0.01	0.10	0.2
ZZ36919		0.07	13.3	1370	12.8	9.3	0.002	0.14	2.14	0.2	2.4	0.5	29.0	<0.01	0.09	<0.2
ZZ36920		0.13	19.5	1410	17.5	10.9	0.001	0.12	2.65	0.3	2.2	1.0	40.9	<0.01	0.13	0.2
ZZ36921		0.14	17.3	1240	14.8	10.3	0.003	0.10	3.42	0.5	4.1	0.6	42.4	<0.01	0.06	<0.2
ZZ36922		0.14	35.3	2010	14.2	9.5	0.003	0.16	6.20	1.0	5.5	0.6	58.2	<0.01	0.07	0.3
ZZ36923		0.13	24.3	1480	9.5	7.2	0.015	0.13	5.64	2.2	6.1	0.5	71.9	<0.01	0.12	0.4
ZZ36924		0.08	20.5	1210	16.8	19.4	0.004	0.13	2.73	1.6	3.0	0.6	68.7	<0.01	0.10	0.4
ZZ36925		0.21	20.0	920	12.0	9.9	0.002	0.06	1.94	1.5	2.5	0.4	23.9	<0.01	0.07	0.4
ZZ36926		0.09	12.8	700	11.1	7.6	0.004	0.08	2.11	0.8	2.5	0.4	28.9	<0.01	0.05	0.3
ZZ36927		0.12	13.7	1010	11.9	9.2	0.003	0.09	1.54	0.4	1.4	0.6	24.1	<0.01	0.08	<0.2
ZZ36928		0.14	7.7	420	10.8	10.3	0.002	0.02	1.02	0.3	1.1	0.6	26.8	<0.01	0.08	<0.2
ZZ36929		0.09	8.6	360	9.8	8.9	0.002	0.08	1.96	1.0	1.0	0.4	27.1	<0.01	0.07	0.3
ZZ36930		0.17	6.8	440	18.3	11.1	0.002	0.06	2.77	0.7	2.0	0.6	11.2	<0.01	0.10	0.3
ZZ36931		0.19	10.4	560	19.8	12.1	0.002	0.21	2.90	1.7	2.7	0.6	58.4	<0.01	0.12	0.7
ZZ36932		0.19	134.5	1600	14.3	10.4	0.009	0.18	11.85	1.1	9.8	0.7	71.3	<0.01	0.09	0.2
ZZ36933		0.12	16.5	4440	16.3	10.1	0.005	0.24	11.50	2.1	12.0	0.7	106.0	<0.01	0.12	1.1
ZZ36934		0.31	231	4010	12.9	8.2	0.002	0.11	5.71	3.7	10.0	0.7	169.0	<0.01	0.11	0.7
ZZ36935		0.21	112.5	2360	9.2	4.1	0.003	0.15	2.93	2.4	5.8	0.5	73.3	<0.01	0.08	0.3
ZZ36936		0.14	178.5	3070	12.1	5.0	0.004	0.08	4.99	3.8	7.1	0.5	155.5	<0.01	0.39	1.3
ZZ36937		0.13	8.7	1000	2.6	1.7	0.001	0.19	0.40	0.4	0.7	0.2	28.4	<0.01	0.04	<0.2
ZZ36938		0.35	9.8	940	5.4	2.0	<0.001	0.18	0.37	0.8	1.1	0.2	23.2	<0.01	0.02	0.2
ZZ36939		0.47	47.7	1320	13.9	8.2	0.002	0.08	2.35	3.3	3.0	0.5	46.0	<0.01	0.11	1.5
ZZ36940		0.14	185.0	4200	11.2	7.6	0.005	0.10	2.33	2.9	7.5	0.6	181.5	<0.01	0.18	1.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36901		0.018	0.22	3.62	51	0.13	11.00	147	2.0
ZZ36902		0.020	0.43	1.18	101	0.24	4.25	107	<0.5
ZZ36903		0.012	0.30	1.23	63	0.22	4.06	103	0.5
ZZ36904		0.017	0.45	1.06	83	0.24	3.05	57	<0.5
ZZ36905		0.013	0.39	2.86	106	0.21	5.94	83	<0.5
ZZ36906		0.014	0.66	2.65	90	0.18	12.55	98	<0.5
ZZ36907		0.015	0.94	2.23	132	0.20	5.45	112	<0.5
ZZ36908		0.011	0.54	1.19	104	0.17	3.51	82	<0.5
ZZ36909		0.009	0.60	1.29	91	0.16	4.81	77	<0.5
ZZ36910		0.014	0.32	1.84	80	0.20	7.31	168	<0.5
ZZ36911		0.009	0.34	1.38	86	0.11	2.76	70	0.5
ZZ36912		0.014	0.52	1.64	71	0.17	9.90	116	1.9
ZZ36913		0.014	0.42	3.33	84	0.15	10.35	160	1.1
ZZ36914		0.009	0.33	1.34	73	0.20	5.80	150	<0.5
ZZ36915		0.014	0.34	6.56	70	0.15	13.05	153	3.0
ZZ36916		0.005	0.37	1.75	79	0.15	4.80	152	<0.5
ZZ36917		0.005	0.65	2.35	125	0.15	7.87	120	<0.5
ZZ36918		0.008	0.98	3.16	137	0.18	9.70	195	<0.5
ZZ36919		<0.005	0.95	1.80	130	0.12	2.42	65	<0.5
ZZ36920		0.005	1.07	2.43	168	0.20	4.05	114	<0.5
ZZ36921		0.005	1.00	4.07	164	0.18	4.58	87	<0.5
ZZ36922		0.006	1.38	7.90	258	0.20	10.65	185	0.9
ZZ36923		0.006	1.18	8.45	153	0.15	8.36	105	0.5
ZZ36924		<0.005	1.86	4.18	137	0.09	5.54	36	0.9
ZZ36925		0.008	0.57	2.22	86	0.11	6.60	80	0.7
ZZ36926		<0.005	0.75	3.52	80	0.08	4.42	29	0.7
ZZ36927		0.005	1.26	2.42	85	0.11	3.91	63	<0.5
ZZ36928		0.006	0.63	1.31	97	0.12	2.57	37	<0.5
ZZ36929		<0.005	0.57	1.69	95	0.09	2.22	26	<0.5
ZZ36930		0.008	0.79	1.10	130	0.14	2.31	21	<0.5
ZZ36931		0.007	1.70	2.95	150	0.16	4.63	52	<0.5
ZZ36932		0.005	2.16	11.10	606	0.24	13.40	526	0.8
ZZ36933		0.006	0.99	9.17	355	0.30	16.35	97	<0.5
ZZ36934		0.007	0.66	15.35	198	0.32	59.2	1650	1.9
ZZ36935		0.007	0.49	7.62	85	0.24	27.7	733	1.9
ZZ36936		0.005	1.08	6.85	91	0.36	29.7	800	2.2
ZZ36937		0.007	0.11	2.05	14	<0.05	5.10	110	0.8
ZZ36938		0.015	0.09	1.29	18	0.05	8.82	79	1.2
ZZ36939		0.009	0.22	2.03	104	0.14	14.95	211	1.1
ZZ36940		0.006	0.37	6.36	72	0.16	30.0	1060	1.6

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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36941		0.26	0.005	1.08	0.25	27.8	<0.2	<10	580	0.52	0.25	0.54	1.61	6.79	1.7	13
ZZ36942		0.26	0.004	1.88	0.41	24.8	<0.2	<10	850	0.59	0.22	1.24	2.52	6.54	2.4	16
ZZ36943		0.25	<0.001	0.40	0.60	21.3	<0.2	<10	650	0.50	0.22	0.22	1.37	11.15	8.5	19
ZZ36944		0.37	<0.001	0.17	1.52	17.9	<0.2	<10	240	1.03	0.27	1.01	0.13	8.55	9.7	25
ZZ36945		0.35	0.001	0.24	1.58	11.7	<0.2	<10	230	0.95	0.28	0.22	0.14	12.85	18.1	26
ZZ36946		0.21	0.005	0.30	1.72	13.0	<0.2	<10	410	1.01	0.33	0.23	0.25	13.95	45.6	23
ZZ36947		0.25	0.001	0.18	1.48	10.8	<0.2	<10	370	0.95	0.27	0.49	0.31	7.54	11.4	22
ZZ36948		0.26	0.001	0.23	1.32	26.7	<0.2	<10	350	0.64	0.19	1.10	0.35	21.0	12.4	22
ZZ36949		0.19	0.001	0.18	1.25	70.2	<0.2	<10	330	0.68	0.19	1.43	0.61	17.70	11.4	22
ZZ36950		0.18	0.003	0.31	1.05	102.5	<0.2	<10	420	0.68	0.18	2.05	0.61	13.65	9.5	19
ZZ36951		0.20	0.002	0.26	1.26	60.3	<0.2	<10	300	0.73	0.21	2.17	0.61	20.9	15.1	21
ZZ36952		0.18	0.001	0.29	1.31	118.0	<0.2	<10	440	0.87	0.22	1.35	0.63	17.85	11.7	23
ZZ36953		0.17	<0.001	0.15	0.50	40.3	<0.2	<10	180	0.28	0.08	0.84	0.41	7.57	6.9	9
ZZ36954		0.22	0.002	0.13	0.60	32.0	<0.2	<10	150	0.36	0.10	0.54	0.33	9.06	5.3	11
ZZ36955		0.23	0.001	0.26	1.30	52.3	<0.2	<10	380	0.71	0.20	0.95	0.47	18.85	11.8	22
ZZ36956		0.20	0.002	0.21	1.38	56.8	<0.2	<10	450	0.74	0.21	0.64	0.62	22.2	11.3	24
ZZ36957		0.17	<0.001	0.27	1.26	37.0	<0.2	<10	720	0.67	0.18	1.54	0.70	15.80	8.9	21
ZZ36958		0.18	<0.001	0.37	1.20	10.2	<0.2	<10	1200	0.66	0.18	1.33	0.49	15.35	4.3	16
ZZ36959		0.15	<0.001	0.37	1.20	13.3	<0.2	<10	820	0.55	0.16	1.98	0.36	14.00	7.8	20
ZZ36960		0.19	<0.001	0.18	1.76	11.8	<0.2	<10	530	0.53	0.27	0.70	0.30	22.4	7.4	25
ZZ36961		0.16	<0.001	0.34	0.95	12.5	<0.2	<10	600	0.50	0.16	2.27	0.83	13.55	8.5	19
ZZ36962		0.19	0.001	0.47	1.62	32.8	<0.2	<10	600	0.82	0.19	0.97	1.03	28.2	9.5	25
ZZ36963		0.24	0.001	0.19	1.23	35.3	<0.2	<10	1220	0.46	0.20	0.26	0.29	13.75	7.9	25
ZZ36964		0.24	0.001	0.58	0.85	21.5	<0.2	<10	880	0.56	0.17	0.77	0.44	10.85	6.0	23
ZZ36965		0.21	0.018	0.18	0.17	2.9	<0.2	10	920	0.19	0.03	3.91	0.84	1.65	2.7	5
ZZ36966		0.20	0.006	0.28	0.64	7.2	<0.2	10	1070	0.35	0.08	3.84	0.93	6.14	3.9	12
ZZ36967		0.24	0.004	0.36	0.94	13.6	<0.2	<10	1390	0.48	0.17	1.35	1.07	13.00	5.2	20
ZZ36968		0.25	0.001	0.40	0.45	18.2	<0.2	<10	330	0.30	0.15	0.29	0.32	6.73	5.1	22
ZZ36969		0.28	0.002	1.95	0.48	17.3	<0.2	<10	990	0.49	0.15	0.35	0.31	9.33	2.8	23
ZZ36970		0.24	0.002	1.23	0.50	20.9	<0.2	<10	1100	0.48	0.13	1.54	0.46	6.64	4.1	17
ZZ36971		0.22	0.005	0.52	1.15	10.2	<0.2	<10	680	0.49	0.19	1.31	0.18	18.55	6.6	22
ZZ36972		0.22	0.002	0.39	1.36	14.6	<0.2	<10	540	0.73	0.19	1.25	0.71	20.2	10.2	23
ZZ36973		0.21	0.031	0.40	0.96	8.0	<0.2	<10	1140	0.66	0.13	2.73	0.88	11.60	8.4	15
ZZ36974		0.28	0.019	0.51	1.16	26.9	<0.2	<10	690	0.88	0.21	1.01	1.07	19.55	11.5	23
ZZ36975		0.33	0.004	0.59	1.49	29.7	<0.2	<10	570	1.10	0.23	0.54	0.99	26.5	13.5	28
ZZ36976		0.20	0.001	0.62	1.38	18.0	<0.2	<10	740	0.84	0.21	1.45	1.20	20.0	11.1	24
ZZ36977		0.28	0.004	0.55	1.46	16.7	<0.2	<10	690	0.79	0.24	0.83	0.92	24.7	16.0	25
ZZ36978		0.23	0.007	0.27	1.67	14.4	<0.2	<10	460	1.03	0.24	1.33	0.56	25.4	18.0	25
ZZ36979		0.24	<0.001	0.21	1.67	17.1	<0.2	<10	280	0.77	0.23	0.59	0.41	22.3	13.7	24
ZZ36980		0.17	<0.001	0.32	0.62	4.3	<0.2	10	290	0.40	0.07	4.02	1.34	5.09	3.2	7

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36941		0.84	37.3	1.98	1.33	<0.05	0.09	0.25	0.040	0.19	3.6	5.1	0.01	37	31.0	0.01
ZZ36942		0.81	32.3	1.70	1.63	<0.05	0.09	0.28	0.033	0.10	4.6	2.0	0.03	57	15.90	0.01
ZZ36943		1.27	22.2	2.79	2.64	<0.05	<0.02	0.06	0.030	0.07	4.9	6.0	0.10	569	13.15	0.01
ZZ36944		1.31	31.5	3.51	4.47	<0.05	0.06	0.06	0.037	0.08	3.7	30.8	0.42	186	1.27	0.01
ZZ36945		2.16	30.9	3.66	5.05	<0.05	0.03	0.08	0.037	0.09	5.2	34.6	0.46	579	1.35	<0.01
ZZ36946		2.28	26.0	4.29	5.09	<0.05	0.02	0.09	0.045	0.12	3.9	22.0	0.26	5080	1.82	0.01
ZZ36947		1.11	22.1	3.83	4.45	<0.05	0.07	0.08	0.041	0.08	3.4	29.2	0.40	520	1.30	<0.01
ZZ36948		0.94	37.5	3.07	4.25	<0.05	0.05	0.16	0.027	0.06	9.4	22.6	0.62	474	0.98	<0.01
ZZ36949		1.35	42.4	2.82	4.02	<0.05	0.05	0.26	0.029	0.09	9.4	20.5	0.58	348	1.17	0.01
ZZ36950		1.69	32.1	2.30	3.14	0.05	0.05	0.40	0.026	0.08	8.6	15.1	0.36	394	0.80	0.01
ZZ36951		1.60	53.7	2.88	4.12	<0.05	0.05	0.27	0.025	0.08	10.2	23.6	0.78	507	0.91	<0.01
ZZ36952		2.03	45.3	2.93	3.90	<0.05	0.06	0.41	0.028	0.08	10.6	19.5	0.45	381	1.01	0.01
ZZ36953		1.03	15.5	1.19	1.61	<0.05	0.03	0.16	0.009	0.04	4.1	8.0	0.19	423	0.49	<0.01
ZZ36954		0.90	14.8	1.31	1.91	<0.05	0.03	0.13	0.015	0.04	4.7	10.1	0.24	168	0.48	<0.01
ZZ36955		1.30	30.7	2.82	4.27	<0.05	0.05	0.19	0.028	0.07	8.6	20.3	0.46	467	1.42	0.01
ZZ36956		1.56	36.3	2.87	4.79	<0.05	0.05	0.17	0.032	0.08	10.4	21.9	0.44	357	1.95	0.01
ZZ36957		1.38	40.2	2.48	3.97	<0.05	0.07	0.20	0.029	0.06	7.9	18.2	0.44	199	1.13	0.01
ZZ36958		1.40	25.3	1.58	4.46	<0.05	0.04	0.09	0.022	0.04	7.6	8.4	0.18	148	1.24	0.02
ZZ36959		0.95	41.3	1.89	3.38	<0.05	0.03	0.21	0.023	0.04	6.8	11.6	0.26	377	1.30	0.01
ZZ36960		1.41	10.4	2.75	7.00	<0.05	0.03	0.06	0.034	0.04	11.3	18.9	0.26	241	1.74	0.01
ZZ36961		1.06	32.5	1.90	3.26	<0.05	0.04	0.17	0.024	0.05	7.9	12.7	0.27	465	0.91	0.01
ZZ36962		1.16	18.2	2.73	4.87	<0.05	0.03	0.18	0.030	0.05	12.6	14.4	0.35	458	2.02	0.01
ZZ36963		1.17	26.4	2.92	4.21	<0.05	0.02	0.09	0.025	0.05	6.1	14.9	0.29	237	3.10	0.01
ZZ36964		0.73	28.8	2.09	2.90	<0.05	0.03	0.10	0.028	0.07	6.3	13.0	0.13	219	3.33	0.01
ZZ36965		0.21	37.2	0.75	0.44	<0.05	0.08	0.09	<0.005	0.01	1.2	1.1	0.10	327	0.84	<0.01
ZZ36966		0.67	32.0	1.12	1.86	<0.05	0.07	0.15	0.012	0.04	3.8	7.3	0.21	396	0.77	0.02
ZZ36967		1.18	27.0	1.73	3.38	<0.05	0.02	0.09	0.026	0.06	7.1	6.8	0.14	196	1.80	0.02
ZZ36968		0.90	30.5	1.81	1.63	<0.05	0.02	0.07	0.030	0.06	3.1	3.7	0.08	137	3.35	0.01
ZZ36969		0.76	45.6	1.39	1.60	<0.05	<0.02	0.08	0.027	0.08	5.1	3.3	0.05	49	3.07	0.01
ZZ36970		0.63	25.9	1.86	1.44	<0.05	0.03	0.15	0.026	0.05	3.5	4.3	0.11	122	2.47	0.01
ZZ36971		1.10	20.5	1.86	4.08	<0.05	0.04	0.10	0.021	0.05	9.7	10.4	0.30	211	0.92	0.01
ZZ36972		1.04	51.3	2.94	4.48	<0.05	0.07	0.12	0.029	0.09	10.0	29.2	0.58	161	1.74	0.01
ZZ36973		0.76	67.7	1.86	3.06	<0.05	0.06	0.12	0.020	0.06	6.3	13.6	0.38	686	1.08	0.02
ZZ36974		1.01	52.7	3.01	3.79	0.05	0.05	0.24	0.033	0.08	9.9	18.7	0.49	416	2.75	0.01
ZZ36975		1.34	72.4	3.96	4.48	0.06	0.10	0.23	0.042	0.11	13.8	24.2	0.54	485	3.76	0.01
ZZ36976		1.34	54.1	2.97	4.44	<0.05	0.05	0.21	0.034	0.08	9.8	19.0	0.42	484	2.28	0.01
ZZ36977		1.26	77.7	3.60	4.77	0.06	0.08	0.18	0.034	0.12	11.7	23.8	0.65	695	2.55	0.01
ZZ36978		1.18	138.5	4.01	5.07	0.05	0.10	0.16	0.042	0.12	12.2	37.0	0.68	651	2.16	0.01
ZZ36979		1.08	61.1	3.83	5.67	<0.05	0.06	0.08	0.033	0.08	10.1	30.7	0.58	356	1.89	0.01
ZZ36980		0.54	45.2	0.89	1.28	<0.05	0.05	0.16	0.013	0.03	3.1	3.7	0.27	399	0.69	0.01

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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ36941		<0.05	27.2	880	16.0	11.8	0.006	0.45	5.07	2.6	9.1	0.6	146.0	<0.01	0.14	1.3
ZZ36942		0.06	38.3	1310	14.3	8.1	0.005	0.22	4.15	2.6	5.5	0.6	98.5	<0.01	0.12	0.7
ZZ36943		0.21	34.8	1430	15.4	10.7	0.006	0.08	3.09	1.4	2.9	0.5	47.3	<0.01	0.09	0.4
ZZ36944		0.16	36.2	590	17.3	9.4	0.001	0.07	0.58	5.2	1.0	0.5	36.9	<0.01	0.05	2.8
ZZ36945		0.18	42.6	710	17.9	14.4	0.001	0.01	0.51	5.9	1.5	0.5	18.6	<0.01	0.02	4.1
ZZ36946		0.12	33.2	1190	32.1	21.6	<0.001	0.06	0.44	6.2	1.6	0.6	20.9	<0.01	0.06	2.2
ZZ36947		0.16	39.3	860	11.8	12.3	0.001	0.02	0.40	5.0	2.5	0.5	32.1	<0.01	0.04	3.0
ZZ36948		0.24	27.2	590	15.1	6.1	0.001	0.03	0.60	4.8	1.0	0.3	29.3	<0.01	0.07	1.9
ZZ36949		0.30	32.3	700	13.5	8.4	0.003	0.05	0.67	4.9	1.6	0.4	36.5	<0.01	0.05	1.8
ZZ36950		0.26	27.9	770	12.8	7.6	0.002	0.07	0.56	3.3	2.4	0.3	42.5	<0.01	0.03	1.0
ZZ36951		0.24	31.6	720	14.9	8.1	0.001	0.03	0.58	5.4	1.3	0.3	61.8	<0.01	0.04	2.1
ZZ36952		0.30	30.9	770	16.6	9.8	0.002	0.06	0.63	4.6	2.5	0.4	41.0	<0.01	0.07	1.4
ZZ36953		0.14	13.9	370	5.8	4.9	0.001	0.03	0.27	2.1	0.9	0.2	21.9	<0.01	0.02	0.8
ZZ36954		0.16	13.0	360	6.7	5.0	0.001	0.02	0.27	2.4	0.8	0.2	15.1	<0.01	0.02	1.0
ZZ36955		0.41	26.5	700	14.8	8.8	0.001	0.03	0.71	4.5	1.2	0.4	31.2	<0.01	0.05	2.0
ZZ36956		0.40	27.8	700	14.7	10.3	<0.001	0.03	0.77	4.6	1.5	0.5	29.2	<0.01	0.04	2.2
ZZ36957		0.35	26.3	820	13.5	8.3	0.002	0.09	0.64	3.7	2.4	0.4	49.6	<0.01	0.03	1.4
ZZ36958		0.48	14.7	1210	10.5	8.0	<0.001	0.09	0.33	1.8	1.3	0.5	58.7	<0.01	0.02	0.5
ZZ36959		0.51	22.6	1260	9.8	6.3	0.001	0.12	0.71	1.9	4.1	0.4	71.9	<0.01	0.02	0.5
ZZ36960		1.22	17.3	420	14.9	9.0	<0.001	0.02	0.49	2.6	0.9	0.8	26.6	<0.01	0.03	2.5
ZZ36961		0.50	24.8	760	10.7	8.3	0.001	0.08	0.67	2.5	2.3	0.4	64.3	<0.01	0.02	0.7
ZZ36962		0.71	26.0	620	20.7	11.5	<0.001	0.04	0.75	4.1	1.1	0.5	29.2	0.01	0.05	1.5
ZZ36963		0.36	26.3	340	16.9	9.1	<0.001	0.02	1.10	2.9	1.1	0.5	21.2	<0.01	0.05	2.3
ZZ36964		0.29	33.2	400	11.5	7.5	0.003	0.04	1.13	3.4	2.9	0.5	48.1	<0.01	0.06	1.5
ZZ36965		0.06	37.1	670	1.7	1.7	0.024	0.39	1.04	0.9	12.9	<0.2	153.5	<0.01	<0.01	0.3
ZZ36966		0.12	19.2	880	5.3	3.7	0.012	0.25	0.98	1.2	7.5	0.3	82.1	<0.01	0.03	0.4
ZZ36967		0.35	21.7	510	10.7	10.2	<0.001	0.04	0.83	2.4	1.5	0.5	45.9	<0.01	0.04	1.1
ZZ36968		0.08	35.2	480	9.6	7.0	0.003	0.02	0.99	2.4	2.0	0.3	25.1	<0.01	0.07	2.1
ZZ36969		0.10	28.0	880	8.1	7.4	0.003	0.08	0.95	3.0	3.8	0.3	86.7	<0.01	0.07	2.0
ZZ36970		0.10	36.8	1090	8.9	5.8	0.002	0.06	1.45	3.2	2.6	0.3	81.6	<0.01	0.09	1.2
ZZ36971		0.73	18.1	780	10.6	8.9	0.001	0.06	0.50	2.9	2.3	0.5	61.0	<0.01	0.03	1.9
ZZ36972		0.27	32.6	650	12.6	7.7	0.003	0.06	0.94	4.5	2.4	0.4	62.0	<0.01	0.05	2.0
ZZ36973		0.22	30.9	790	8.5	6.4	0.002	0.11	1.04	2.4	3.3	0.3	105.5	<0.01	0.03	0.6
ZZ36974		0.20	37.7	630	15.2	7.2	0.002	0.04	1.42	5.7	2.1	0.4	47.8	<0.01	0.07	2.1
ZZ36975		0.14	49.3	420	18.4	9.4	0.001	0.03	1.61	9.7	1.8	0.5	34.0	<0.01	0.04	4.6
ZZ36976		0.41	35.1	810	13.7	9.9	0.004	0.07	1.28	4.5	2.8	0.4	65.5	<0.01	0.06	1.4
ZZ36977		0.25	46.0	700	15.1	8.2	0.002	0.05	1.24	7.2	3.2	0.4	56.8	<0.01	0.09	3.2
ZZ36978		0.19	68.5	730	14.9	8.1	0.003	0.05	0.77	8.5	2.8	0.3	75.8	<0.01	0.06	3.3
ZZ36979		0.22	30.5	320	15.5	9.0	0.001	0.02	0.70	5.2	1.5	0.5	39.4	<0.01	0.06	3.3
ZZ36980		0.21	24.0	1340	3.2	4.0	0.006	0.25	0.82	0.9	11.8	0.2	176.5	<0.01	0.05	0.3

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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36941		<0.005	2.34	2.80	147	0.17	8.64	113	4.3
ZZ36942		<0.005	1.06	3.66	135	0.11	13.35	182	2.7
ZZ36943		0.007	0.60	2.23	134	0.17	5.57	214	<0.5
ZZ36944		<0.005	0.15	0.94	32	<0.05	6.70	100	1.6
ZZ36945		<0.005	0.15	0.73	34	<0.05	9.80	118	0.9
ZZ36946		<0.005	0.27	0.72	39	<0.05	9.68	84	<0.5
ZZ36947		<0.005	0.12	0.73	34	<0.05	6.43	140	1.5
ZZ36948		0.006	0.11	0.74	43	0.07	9.44	92	1.5
ZZ36949		0.007	0.23	1.21	39	0.10	11.95	130	1.8
ZZ36950		0.005	0.35	1.69	35	0.10	15.40	123	1.4
ZZ36951		0.005	0.23	1.05	39	0.06	13.30	110	1.6
ZZ36952		0.005	0.33	2.13	43	0.10	17.40	119	1.5
ZZ36953		<0.005	0.16	0.68	17	0.08	5.92	59	0.8
ZZ36954		<0.005	0.12	0.59	20	0.07	5.45	60	0.8
ZZ36955		0.008	0.17	1.07	48	0.13	8.90	108	1.5
ZZ36956		0.008	0.19	1.31	55	0.16	9.81	127	1.4
ZZ36957		0.006	0.18	1.22	45	0.16	10.75	105	1.7
ZZ36958		0.010	0.11	1.22	40	0.09	8.16	36	1.1
ZZ36959		0.013	0.08	8.99	38	0.34	8.28	65	1.0
ZZ36960		0.023	0.13	0.67	70	0.28	4.29	79	0.7
ZZ36961		0.012	0.08	2.73	34	0.09	11.40	90	1.2
ZZ36962		0.013	0.15	1.44	59	0.18	12.00	104	1.0
ZZ36963		0.007	0.18	0.71	67	0.11	3.96	96	1.0
ZZ36964		0.005	0.14	1.31	66	0.11	15.65	128	1.1
ZZ36965		<0.005	0.02	14.35	7	<0.05	6.46	58	2.9
ZZ36966		<0.005	0.09	5.03	28	<0.05	9.34	58	2.5
ZZ36967		0.008	0.12	1.33	58	0.11	7.60	93	0.5
ZZ36968		<0.005	0.10	1.42	43	<0.05	6.22	139	0.9
ZZ36969		<0.005	0.10	1.95	36	<0.05	12.70	102	<0.5
ZZ36970		<0.005	0.09	1.75	57	<0.05	16.20	115	1.2
ZZ36971		0.016	0.09	3.33	43	0.22	7.09	59	1.2
ZZ36972		0.006	0.11	1.91	46	0.06	9.99	107	2.1
ZZ36973		0.005	0.09	8.22	32	<0.05	9.38	58	1.7
ZZ36974		0.005	0.17	1.38	74	0.18	15.60	135	1.5
ZZ36975		<0.005	0.21	1.20	100	0.05	22.4	165	3.2
ZZ36976		0.009	0.17	2.08	73	0.14	12.90	126	1.4
ZZ36977		0.008	0.13	2.20	52	0.05	13.95	123	2.3
ZZ36978		0.005	0.08	2.49	39	<0.05	27.9	157	3.0
ZZ36979		0.005	0.11	0.91	55	0.05	7.98	95	2.0
ZZ36980		0.005	0.04	3.36	11	<0.05	5.38	108	1.6



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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36981		0.25	0.001	0.26	1.73	15.4	<0.2	<10	270	1.08	0.26	0.67	1.20	27.0	14.7	28
ZZ36982		0.20	0.004	0.38	1.94	14.2	<0.2	<10	400	1.18	0.24	1.42	0.97	22.2	14.4	26
ZZ36983		0.22	0.001	0.38	1.90	12.4	<0.2	<10	120	0.53	0.26	0.05	0.36	23.6	10.0	26
ZZ36984		0.30	<0.001	1.73	1.53	14.4	<0.2	<10	110	0.36	0.28	0.04	0.66	23.3	6.0	22
ZZ36985		0.22	0.001	2.82	2.14	14.0	<0.2	<10	140	0.55	0.24	0.05	0.36	17.40	8.9	30
ZZ36986		0.21	0.002	0.79	1.00	9.0	<0.2	<10	490	0.38	0.19	0.27	1.00	18.80	4.8	16
ZZ36987		0.23	0.003	0.94	1.90	15.0	<0.2	<10	200	0.62	0.27	0.19	0.41	30.8	29.5	27
ZZ36988		0.22	0.003	0.42	1.97	18.2	<0.2	<10	220	0.93	0.26	0.38	0.96	33.7	19.3	28
ZZ36989		0.25	0.001	0.24	1.88	14.9	<0.2	<10	170	0.91	0.26	0.47	0.41	31.7	15.2	28
ZZ36990		0.24	0.004	0.14	1.92	11.2	<0.2	<10	140	0.87	0.24	0.90	0.39	28.6	18.5	27
ZZ36991		0.15	0.001	0.12	1.96	27.1	<0.2	<10	150	0.89	0.26	0.67	0.24	28.5	18.6	27
ZZ36992		0.28	0.002	0.12	2.18	91.1	<0.2	<10	150	0.76	0.29	1.65	0.35	28.6	23.9	30
ZZ36993		0.24	0.003	0.14	2.09	622	<0.2	<10	150	0.77	0.27	1.06	0.44	27.7	21.1	30
ZZ36994		0.12	0.004	0.12	1.92	557	<0.2	10	140	0.71	0.25	1.30	0.39	23.9	18.2	27
ZZ36995		0.13	0.003	0.12	2.05	434	<0.2	<10	140	0.77	0.26	1.11	0.25	24.4	18.1	29
ZZ36996		0.21	0.004	0.11	1.92	50.0	<0.2	<10	110	0.72	0.28	0.95	0.24	29.9	21.7	28
ZZ36997		0.12	0.002	0.13	1.89	253	<0.2	<10	140	0.71	0.23	1.66	0.27	20.6	17.2	26
ZZ36998		0.23	0.003	0.13	1.82	150.5	<0.2	<10	240	0.67	0.26	0.65	0.47	32.4	31.3	28
ZZ36999		0.20	0.004	0.15	1.69	33.2	<0.2	<10	300	0.71	0.27	0.96	0.57	21.0	19.3	24
ZZ37000		0.14	0.003	0.15	1.77	14.0	<0.2	<10	220	0.78	0.27	1.37	0.81	22.3	16.8	26

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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36981		1.49	73.8	3.69	5.77	0.06	0.08	0.22	0.040	0.10	13.3	40.8	0.66	431	1.22	0.01
ZZ36982		1.96	99.7	3.84	5.43	0.05	0.09	0.24	0.043	0.14	11.2	35.7	0.59	453	0.96	0.01
ZZ36983		1.70	23.8	3.45	6.61	<0.05	0.06	0.03	0.030	0.08	11.4	36.0	0.38	243	1.20	0.01
ZZ36984		1.33	18.0	3.26	7.05	<0.05	0.05	0.04	0.024	0.06	11.6	24.6	0.24	187	1.58	<0.01
ZZ36985		2.24	23.1	3.24	6.04	<0.05	0.08	0.07	0.034	0.07	8.5	29.0	0.35	202	1.74	<0.01
ZZ36986		1.35	27.5	1.66	3.38	<0.05	0.03	0.18	0.023	0.08	8.5	19.0	0.31	84	0.91	0.01
ZZ36987		2.46	33.4	4.12	6.23	0.05	0.06	0.24	0.038	0.12	13.2	43.4	0.79	1070	1.55	0.01
ZZ36988		1.97	67.8	3.96	6.43	0.06	0.07	0.17	0.036	0.13	15.8	46.4	0.81	1400	0.90	0.01
ZZ36989		1.77	67.2	4.02	5.86	0.07	0.14	0.14	0.030	0.13	15.5	46.1	0.84	512	0.95	0.01
ZZ36990		1.49	63.0	3.99	5.94	0.06	0.14	0.10	0.030	0.14	12.9	42.5	0.87	582	0.60	0.01
ZZ36991		1.39	61.4	4.11	5.93	0.05	0.14	0.12	0.033	0.13	13.2	42.7	0.85	895	0.68	0.01
ZZ36992		2.43	87.8	4.64	7.03	0.09	0.14	0.11	0.036	0.16	14.1	41.3	1.08	753	0.84	0.01
ZZ36993		4.93	87.2	4.59	6.69	0.11	0.13	0.12	0.035	0.15	13.6	41.2	1.04	724	1.07	0.01
ZZ36994		3.09	74.5	4.06	6.23	0.10	0.11	0.11	0.032	0.13	12.1	37.8	0.96	696	1.19	0.01
ZZ36995		2.11	83.5	4.30	6.77	0.10	0.14	0.11	0.036	0.14	12.4	42.7	0.99	493	1.66	0.01
ZZ36996		1.23	89.6	4.59	6.45	0.11	0.11	0.12	0.035	0.10	14.5	38.0	1.08	747	0.75	0.01
ZZ36997		1.60	69.5	3.87	5.91	0.08	0.10	0.08	0.029	0.12	10.2	37.2	0.89	630	1.11	0.01
ZZ36998		1.35	70.9	4.15	6.58	0.12	0.10	0.13	0.034	0.10	15.6	39.4	0.99	5320	2.67	0.01
ZZ36999		1.51	56.9	4.74	5.64	0.10	0.09	0.12	0.031	0.10	10.2	32.5	0.68	2060	8.25	0.01
ZZ37000		1.19	63.7	3.50	5.65	0.10	0.10	0.12	0.036	0.11	10.9	36.2	0.79	507	4.53	0.01



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Project: ATACRegional- MooseLake- Pyramid

**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36981		0.42	57.0	610	17.1	11.5	0.001	0.04	0.81	8.3	2.5	0.5	47.2	<0.01	0.08	3.2
ZZ36982		0.36	54.8	690	15.6	11.0	<0.001	0.05	0.80	8.3	2.0	0.5	77.3	<0.01	0.05	2.5
ZZ36983		0.90	22.4	330	15.6	14.0	<0.001	0.01	0.63	2.9	0.6	0.7	8.0	<0.01	0.04	3.6
ZZ36984		1.12	12.7	350	14.3	13.5	<0.001	0.01	0.79	2.2	0.8	0.8	7.2	<0.01	0.04	3.5
ZZ36985		1.00	22.0	340	13.2	17.2	<0.001	0.01	0.95	2.9	1.2	0.7	8.0	<0.01	0.03	3.8
ZZ36986		0.48	23.8	620	11.3	10.9	<0.001	0.05	0.61	3.2	5.0	0.4	24.9	<0.01	0.03	3.2
ZZ36987		0.18	35.5	910	19.6	12.9	<0.001	0.02	0.54	4.7	1.7	0.4	21.9	<0.01	0.04	4.6
ZZ36988		0.19	48.2	700	16.6	11.4	<0.001	0.03	0.61	7.3	2.3	0.4	29.4	<0.01	0.06	4.6
ZZ36989		0.17	40.3	660	13.2	9.3	<0.001	0.03	0.66	6.8	1.6	0.4	34.9	<0.01	0.05	4.9
ZZ36990		0.17	35.7	640	15.8	9.0	<0.001	0.04	0.49	6.5	1.4	0.3	49.5	<0.01	0.05	4.0
ZZ36991		0.13	35.5	560	18.2	8.9	<0.001	0.03	0.49	6.5	1.0	0.3	39.7	<0.01	0.06	4.1
ZZ36992		0.19	43.5	750	17.6	12.4	<0.001	0.04	0.54	7.4	1.1	0.3	80.1	<0.01	0.07	4.1
ZZ36993		0.18	43.8	750	16.1	18.8	<0.001	0.04	0.52	7.4	1.2	0.3	53.8	<0.01	0.07	3.3
ZZ36994		0.21	39.0	740	14.9	15.8	<0.001	0.08	0.48	6.4	1.6	0.3	59.9	<0.01	0.07	2.3
ZZ36995		0.21	40.8	640	14.9	14.0	<0.001	0.06	0.46	7.2	1.4	0.3	55.0	<0.01	0.07	3.0
ZZ36996		0.17	37.7	590	22.2	8.0	<0.001	0.04	0.48	8.5	1.1	0.3	44.2	<0.01	0.07	3.9
ZZ36997		0.22	33.9	670	13.2	10.9	<0.001	0.08	0.45	5.5	1.4	0.3	72.8	<0.01	0.07	1.8
ZZ36998		0.15	46.4	780	19.1	7.8	0.001	0.04	0.43	9.8	1.2	0.3	40.0	<0.01	0.07	4.5
ZZ36999		0.27	41.1	670	16.0	11.5	0.004	0.10	0.52	6.5	2.6	0.4	53.4	<0.01	0.07	3.1
ZZ37000		0.30	52.3	670	16.2	10.7	0.009	0.13	0.57	7.3	3.3	0.4	67.0	<0.01	0.07	2.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12194522**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36981		0.011	0.15	1.87	53	0.09	17.70	246	2.1
ZZ36982		0.007	0.11	3.31	43	0.11	18.10	128	2.5
ZZ36983		0.016	0.11	0.47	55	0.19	2.45	84	1.7
ZZ36984		0.026	0.12	0.45	70	0.24	2.12	76	1.9
ZZ36985		0.019	0.20	0.61	67	0.21	2.72	113	2.4
ZZ36986		0.011	0.22	1.20	32	0.16	9.82	58	0.8
ZZ36987		0.005	0.31	0.92	47	0.06	7.50	100	1.5
ZZ36988		0.006	0.14	1.00	43	0.06	18.80	107	2.1
ZZ36989		0.006	0.11	0.97	40	0.05	11.95	101	3.6
ZZ36990		0.005	0.06	0.72	39	<0.05	9.67	92	4.1
ZZ36991		<0.005	0.06	0.87	39	<0.05	10.95	83	3.6
ZZ36992		0.005	0.13	0.68	44	0.09	10.65	106	5.0
ZZ36993		0.005	0.32	0.99	44	0.09	11.25	137	4.2
ZZ36994		0.006	0.21	2.05	41	0.09	10.45	117	3.6
ZZ36995		0.005	0.13	2.96	42	0.09	11.55	103	4.7
ZZ36996		0.005	0.09	0.84	43	0.06	12.40	88	3.7
ZZ36997		0.005	0.10	2.89	39	0.08	8.95	95	3.2
ZZ36998		0.005	0.16	1.28	42	0.06	13.30	105	3.7
ZZ36999		<0.005	0.17	4.67	40	0.08	9.65	172	2.8
ZZ37000		0.005	0.18	4.21	44	0.06	11.25	285	3.6



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**CERTIFICATE OF ANALYSIS WH12194522**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12195698**

Project: ATAC REGIONAL (Area B)  
 P.O. No.: R23  
 This report is for 23 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12195698**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	5	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843667		0.42	<0.01	0.27	0.30	18	30	0.55	0.03	22.2	0.49	2.37	0.6	4	0.21	7.1
L843668		0.48	<0.01	1.60	0.06	45	10	<0.05	0.02	22.0	9.51	0.51	0.2	1	0.05	2.0
L843669		0.29	<0.01	2.03	0.07	16	10	0.08	0.01	23.1	26.1	2.14	0.5	1	<0.05	2.7
L843670		0.42	<0.01	1.62	0.04	449	20	<0.05	0.02	32.6	36.5	0.76	0.9	1	<0.05	4.2
L843671		0.47	<0.01	0.06	0.03	31	50	0.13	0.02	33.0	0.27	0.39	0.2	1	<0.05	0.8
L843672		0.27	<0.01	0.05	0.07	9	10	0.05	0.02	21.8	1.12	0.92	0.9	1	0.09	1.6
L843673		0.40	<0.01	0.11	0.24	84	90	0.63	0.02	32.5	1.02	3.14	0.6	3	0.24	1.4
L843674		0.23	0.01	5.65	0.26	357	100	0.36	0.03	31.9	6.17	4.44	0.4	5	0.27	4.0
L843675		0.25	<0.01	0.15	0.06	31	10	0.44	0.02	33.5	0.72	1.37	0.3	1	0.09	0.9
L843676		0.15	<0.01	0.06	0.09	29	20	0.11	0.02	24.9	0.23	0.91	0.6	3	0.08	1.3
L843677		0.29	<0.01	0.27	0.41	111	50	0.71	0.03	30.2	1.75	4.71	0.7	5	0.58	2.2
L843786		0.33	<0.01	0.53	0.16	7	10	0.19	0.02	24.2	8.97	1.80	0.3	3	0.15	3.5
L843787		0.47	<0.01	1.58	0.04	44	10	0.06	0.02	21.5	36.4	0.58	0.3	1	<0.05	4.9
L843788		0.38	<0.01	0.04	0.13	24	680	0.07	0.02	31.9	0.49	1.30	0.4	2	0.16	1.6
L843789		0.38	<0.01	6.63	0.03	403	40	0.13	0.02	32.8	16.35	0.37	0.4	1	<0.05	3.2
L843790		0.25	0.01	0.16	0.41	233	70	0.30	0.03	31.3	0.34	3.88	1.1	6	0.41	2.2
L843791		0.19	<0.01	0.05	0.10	21	10	0.14	0.01	28.9	0.23	1.02	0.5	2	0.09	2.1
L843792		0.21	<0.01	0.03	0.03	<5	10	<0.05	0.02	26.4	0.10	0.32	0.3	1	<0.05	1.1
L843793		0.27	0.01	1.49	0.54	310	60	0.65	0.02	31.6	7.62	4.66	0.5	6	0.47	2.7
L843794		0.30	0.01	0.23	0.28	126	40	0.36	0.02	28.8	5.96	3.71	0.9	4	0.54	2.5
L843795		0.44	0.01	1.82	0.77	457	100	0.64	0.03	29.0	102.5	7.09	1.2	6	0.86	5.4
L843796		0.34	0.01	0.18	0.06	76	30	0.09	0.02	22.9	5.65	1.11	0.4	1	<0.05	2.5
L843797		0.43	<0.01	0.13	0.04	18	10	0.11	0.02	22.6	0.40	0.68	0.3	2	<0.05	1.5



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Project: ATAC REGIONAL (Area B)

**CERTIFICATE OF ANALYSIS WH12195698**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843667		0.19	0.61	0.08	0.1	0.08	<0.005	0.12	1.5	2.5	10.95	64	0.46	0.02	0.5	2.9
L843668		0.08	0.13	0.10	<0.1	3.58	<0.005	0.01	<0.5	0.8	11.45	303	0.09	0.02	0.1	0.5
L843669		0.30	0.25	0.10	<0.1	13.9	<0.005	0.02	0.9	0.9	8.85	1700	0.14	0.01	<0.1	1.8
L843670		0.09	0.18	0.08	<0.1	28.6	<0.005	0.01	0.6	0.5	0.13	214	0.91	<0.01	<0.1	4.2
L843671		0.02	0.07	0.08	<0.1	0.36	<0.005	0.01	<0.5	0.3	0.16	32	0.60	<0.01	<0.1	0.3
L843672		0.05	0.16	0.08	<0.1	0.24	<0.005	0.02	0.8	0.6	10.45	38	0.32	0.02	0.1	3.1
L843673		0.11	0.58	0.08	0.1	1.17	<0.005	0.08	1.5	0.9	0.29	252	0.28	<0.01	0.2	1.8
L843674		0.34	0.72	0.09	0.1	46.0	<0.005	0.08	3.3	1.0	0.10	435	1.00	<0.01	0.4	2.0
L843675		0.04	0.17	0.10	<0.1	0.92	<0.005	0.01	0.8	0.3	0.23	434	0.15	<0.01	0.1	0.6
L843676		0.09	0.22	0.09	<0.1	0.36	<0.005	0.02	0.5	0.6	6.99	124	0.30	0.01	0.2	2.8
L843677		0.26	1.00	0.08	0.2	1.35	<0.005	0.16	2.3	1.5	2.24	258	0.37	0.01	0.6	6.0
L843786		0.07	0.42	0.11	0.1	4.52	<0.005	0.05	1.4	1.0	7.14	103	0.17	0.01	0.2	2.2
L843787		0.06	0.17	0.11	<0.1	17.7	<0.005	0.01	0.5	0.6	9.71	279	0.20	0.02	<0.1	2.8
L843788		0.07	0.32	0.10	<0.1	0.33	<0.005	0.05	0.9	0.5	0.15	34	1.40	0.01	0.2	2.5
L843789		0.08	0.09	0.09	<0.1	9.7	<0.005	0.01	<0.5	0.4	0.14	376	1.79	<0.01	<0.1	1.2
L843790		0.31	1.04	0.12	0.2	3.56	<0.005	0.13	2.5	1.6	0.10	311	2.61	<0.01	0.8	8.3
L843791		0.06	0.23	0.10	0.1	0.40	<0.005	0.03	0.5	0.5	3.15	206	0.28	0.01	0.2	3.3
L843792		0.03	0.08	0.10	<0.1	0.21	<0.005	0.01	<0.5	0.4	5.76	48	0.13	0.01	<0.1	0.9
L843793		0.43	1.37	0.10	0.2	7.47	<0.005	0.22	2.4	1.7	0.43	654	0.88	0.01	0.8	4.7
L843794		0.25	0.72	0.10	0.1	1.75	<0.005	0.10	1.8	1.2	3.12	417	0.48	0.01	0.4	5.9
L843795		0.63	1.91	0.11	0.3	3.31	<0.005	0.32	3.3	2.3	2.11	522	1.19	0.01	1.1	12.3
L843796		0.10	0.16	0.11	<0.1	1.40	<0.005	0.02	0.6	0.5	8.63	184	0.32	0.01	0.1	2.2
L843797		0.06	0.11	0.11	<0.1	0.74	<0.005	0.01	<0.5	0.6	9.87	180	0.11	0.01	<0.1	1.0



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Project: ATAC REGIONAL (Area B)

**CERTIFICATE OF ANALYSIS WH12195698**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843667		80	19.6	4.3	<0.002	0.02	0.63	0.6	<1	0.2	166.0	<0.05	<0.05	0.5	0.016	0.13
L843668		40	306	0.5	<0.002	0.02	1.75	0.1	<1	0.2	138.5	<0.05	<0.05	<0.2	<0.005	<0.02
L843669		100	10.2	0.7	<0.002	0.11	0.27	0.2	<1	0.2	162.0	<0.05	<0.05	0.2	<0.005	0.13
L843670		40	7.7	0.4	0.002	0.21	0.52	0.5	1	0.2	223	<0.05	<0.05	<0.2	<0.005	2.48
L843671		40	3.6	0.3	0.004	<0.01	0.27	0.1	<1	0.2	140.0	<0.05	<0.05	<0.2	<0.005	0.04
L843672		80	2.3	0.9	<0.002	0.01	0.11	0.1	<1	0.2	109.5	<0.05	<0.05	<0.2	<0.005	0.04
L843673		70	9.1	2.9	0.005	0.01	0.45	1.5	<1	0.2	37.0	<0.05	<0.05	0.3	0.007	0.44
L843674		150	1740	3.0	0.002	0.05	8.77	1.7	1	0.3	37.0	<0.05	<0.05	0.5	0.012	0.41
L843675		50	25.1	0.7	<0.002	0.03	0.37	0.8	<1	0.2	17.2	<0.05	<0.05	<0.2	<0.005	0.04
L843676		70	4.3	1.0	<0.002	0.02	0.85	0.5	<1	0.2	83.6	<0.05	<0.05	<0.2	<0.005	0.11
L843677		170	32.8	6.7	<0.002	0.03	0.84	0.9	<1	0.3	70.7	<0.05	<0.05	0.6	0.017	1.38
L843786		60	10.0	2.0	0.002	0.06	0.21	0.3	<1	0.2	148.5	<0.05	<0.05	0.2	0.006	0.19
L843787		40	13.0	0.3	<0.002	0.05	0.80	0.1	4	0.2	119.0	<0.05	<0.05	<0.2	<0.005	0.09
L843788		190	1.7	2.1	0.002	0.02	0.34	0.2	1	0.2	109.0	<0.05	<0.05	0.2	0.006	0.06
L843789		80	1235	0.3	0.002	0.02	19.00	0.1	1	0.2	163.0	<0.05	<0.05	<0.2	<0.005	2.25
L843790		90	15.1	5.6	0.002	0.04	1.13	2.6	<1	0.3	24.2	<0.05	<0.05	0.6	0.019	0.61
L843791		70	4.1	1.4	<0.002	0.03	1.48	0.3	<1	0.2	55.4	<0.05	<0.05	<0.2	<0.005	0.15
L843792		40	2.4	0.4	<0.002	0.02	0.12	0.1	<1	<0.2	114.0	<0.05	<0.05	<0.2	<0.005	0.08
L843793		150	130.5	8.8	<0.002	0.03	2.97	1.8	1	0.3	48.7	0.05	<0.05	0.8	0.023	0.28
L843794		140	28.4	4.3	0.002	0.03	1.71	0.6	<1	0.2	74.6	<0.05	<0.05	0.4	0.011	1.22
L843795		170	412	12.2	<0.002	0.03	17.35	1.8	<1	0.3	119.5	0.07	<0.05	1.3	0.029	3.35
L843796		70	87.2	0.7	<0.002	0.02	1.63	0.2	<1	0.2	128.0	<0.05	<0.05	<0.2	<0.005	0.39
L843797		40	152.0	0.4	<0.002	0.01	2.32	0.1	<1	0.2	80.4	<0.05	<0.05	<0.2	<0.005	0.18

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Project: ATAC REGIONAL (Area B)

**CERTIFICATE OF ANALYSIS WH12195698**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
L843667		2.6	12	0.6	1.6	27	3.9
L843668		1.1	1	0.2	0.3	550	0.6
L843669		1.5	7	0.2	2.5	2770	0.6
L843670		4.7	7	0.1	2.0	4510	0.6
L843671		1.4	3	0.1	0.4	40	<0.5
L843672		1.7	3	<0.1	1.8	40	0.9
L843673		7.5	13	0.3	7.6	51	2.6
L843674		7.5	13	0.5	6.6	235	3.8
L843675		6.7	8	0.1	4.4	16	1.2
L843676		3.4	5	0.1	1.4	58	2.5
L843677		5.5	10	0.4	2.5	472	5.7
L843786		3.6	8	0.3	2.1	1180	1.9
L843787		1.6	3	0.1	1.0	3500	0.6
L843788		3.6	5	0.1	1.7	30	1.7
L843789		2.4	3	0.1	0.9	1100	0.6
L843790		8.6	16	0.4	7.9	98	5.8
L843791		4.1	5	0.1	1.8	44	2.6
L843792		2.9	4	0.1	0.4	23	0.6
L843793		4.9	18	0.8	7.2	213	7.1
L843794		5.8	9	0.3	2.4	499	3.4
L843795		7.6	16	0.9	4.4	1280	8.6
L843796		1.3	3	0.1	1.4	177	0.9
L843797		2.0	4	0.1	0.8	44	0.8



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**CERTIFICATE OF ANALYSIS WH12195698**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12197549**

Project: ATACRegional- AreaD- RacklaCntrl  
 P.O. No.: Soil 34  
 This report is for 161 Soil samples submitted to our lab in Whitehorse, YT, Canada on 22- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37790		0.17	0.002	0.12	1.25	8.8	<0.2	10	250	1.46	0.20	2.07	0.21	26.9	13.8	19
ZZ37791		0.13	0.002	0.07	1.44	10.5	<0.2	<10	230	1.44	0.24	1.67	0.15	28.9	14.5	22
ZZ37792		0.18	0.002	0.07	2.37	26.1	<0.2	<10	310	1.34	0.30	0.29	0.17	33.6	13.8	30
ZZ37793		0.18	0.002	0.11	1.58	30.1	<0.2	<10	220	0.67	0.28	0.49	0.48	18.05	15.1	25
ZZ37794		0.14	0.003	0.18	1.85	28.8	<0.2	<10	310	1.10	0.26	0.95	0.49	29.5	15.1	28
ZZ37795		0.14	0.004	0.40	1.39	34.9	<0.2	<10	590	1.11	0.19	3.19	0.92	18.45	11.7	20
ZZ37796		0.17	0.002	0.12	1.84	30.1	<0.2	<10	230	1.02	0.29	0.41	0.27	29.5	15.0	26
ZZ37797		0.13	0.005	2.57	0.54	14.7	<0.2	<10	110	0.92	0.15	5.25	14.50	19.30	4.0	57
ZZ37798		0.11	0.003	0.39	0.92	30.1	<0.2	<10	290	1.13	0.17	1.76	4.03	26.7	10.3	19
ZZ37799		0.19	0.004	0.30	1.26	57.6	<0.2	<10	220	1.19	0.29	0.64	1.13	21.9	13.5	22
ZZ37800		0.19	0.004	0.34	0.75	16.5	<0.2	<10	1140	0.76	0.22	0.61	1.08	11.45	8.1	12
ZZ37801		0.16	0.004	0.67	0.99	24.3	<0.2	<10	730	0.87	0.21	1.06	1.41	20.7	10.4	20
ZZ37802		0.23	0.004	0.50	1.43	29.7	<0.2	<10	680	1.22	0.23	0.70	1.55	37.0	11.8	28
ZZ37803		0.14	0.004	0.23	0.63	53.2	<0.2	<10	160	0.27	0.28	0.01	0.54	7.22	8.0	11
ZZ37804		0.20	0.008	0.10	1.03	33.5	<0.2	<10	130	0.30	0.26	0.02	0.34	18.20	6.4	17
ZZ37805		0.13	0.002	0.12	0.65	34.8	<0.2	<10	350	0.25	0.22	0.10	0.35	14.40	4.4	11
ZZ37806		0.13	0.003	0.78	0.72	31.3	<0.2	10	620	0.48	0.23	0.15	0.51	6.22	5.1	11
ZZ37807		0.20	0.005	1.60	0.67	56.5	<0.2	<10	1120	0.49	0.23	0.03	0.30	7.48	4.1	28
ZZ37808		0.14	0.003	0.36	1.55	34.8	<0.2	<10	1500	0.99	0.29	1.12	0.30	13.45	12.2	25
ZZ37809		0.08	0.004	0.96	0.73	22.0	<0.2	<10	1670	0.53	0.19	0.97	1.05	7.37	4.0	20
ZZ37810		0.15	0.003	0.12	0.40	34.1	<0.2	<10	300	0.29	0.27	0.09	1.02	3.72	6.1	10
ZZ37811		0.16	0.006	1.27	0.71	32.2	<0.2	<10	1350	0.73	0.19	1.23	2.59	10.25	7.2	18
ZZ37812		0.17	0.005	0.66	0.91	38.6	<0.2	<10	880	0.66	0.26	0.54	0.93	14.15	13.0	25
ZZ37813		0.25	0.006	1.73	0.74	32.5	<0.2	<10	1260	0.77	0.22	0.54	0.75	10.20	9.0	21
ZZ37814		0.15	0.005	1.24	0.52	33.7	<0.2	<10	1710	0.65	0.19	0.73	1.40	6.72	7.0	22
ZZ37815		0.15	0.006	1.19	0.45	27.8	<0.2	<10	1310	0.54	0.16	0.90	1.04	6.37	5.5	19
ZZ37816		0.21	0.004	0.85	0.59	36.3	<0.2	<10	1530	0.80	0.19	0.27	1.37	8.92	7.4	21
ZZ37817		0.23	0.004	0.88	0.71	29.2	<0.2	<10	1180	0.70	0.22	0.61	1.14	11.70	7.9	20
ZZ37818		0.18	0.004	1.24	0.55	51.4	<0.2	<10	1010	0.66	0.16	1.03	1.30	6.16	9.5	18
ZZ37819		0.12	0.003	1.63	0.45	29.8	<0.2	10	890	0.61	0.17	1.08	0.72	4.41	4.0	18
ZZ37820		0.15	0.004	1.32	0.48	28.5	<0.2	10	1160	0.55	0.17	1.23	0.79	4.87	4.6	18
ZZ37821		0.18	0.004	1.28	0.56	39.5	<0.2	<10	860	0.71	0.17	0.64	0.72	4.74	5.1	21
ZZ37822		0.24	0.003	1.06	0.49	32.1	<0.2	10	880	0.52	0.15	0.83	0.67	4.64	4.3	17
ZZ37823		0.16	0.005	1.24	0.75	109.5	<0.2	10	1270	0.85	0.18	1.61	0.83	7.15	5.2	28
ZZ37824		0.12	<0.001	0.38	1.11	48.2	<0.2	<10	810	0.64	0.22	1.00	0.99	11.80	8.5	23
ZZ37825		0.24	0.005	1.06	0.35	46.3	<0.2	10	1230	0.59	0.19	1.09	1.12	3.94	6.1	28
ZZ37826		0.14	0.002	0.13	1.02	12.3	<0.2	<10	150	1.17	0.34	0.51	0.36	26.1	14.6	17
ZZ37827		0.15	0.002	0.21	1.26	11.3	<0.2	<10	170	1.07	0.33	0.94	0.14	17.60	11.7	19
ZZ37828		0.14	0.003	0.19	1.36	12.0	<0.2	<10	270	1.12	0.29	1.50	0.24	17.05	13.6	24
ZZ37829		0.22	0.002	0.16	1.72	20.7	<0.2	<10	350	1.20	0.44	1.02	0.15	13.40	15.6	27

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37790		0.86	23.8	3.96	3.38	0.05	0.09	0.07	0.044	0.15	13.3	15.2	0.29	607	2.10	0.01
ZZ37791		1.19	28.4	4.08	4.12	0.07	0.08	0.05	0.051	0.15	12.3	18.1	0.31	477	1.73	0.01
ZZ37792		1.40	25.2	4.65	6.49	0.05	0.06	0.04	0.051	0.10	10.4	28.2	0.43	1410	1.17	0.01
ZZ37793		1.00	44.4	4.04	5.19	<0.05	0.05	0.07	0.041	0.09	7.1	22.3	0.50	548	2.31	0.01
ZZ37794		1.30	33.5	4.04	5.76	0.05	0.07	0.09	0.044	0.08	10.9	22.3	0.55	826	2.83	0.01
ZZ37795		1.38	61.6	3.06	4.05	<0.05	0.09	0.21	0.036	0.10	9.3	15.4	0.71	524	3.86	0.01
ZZ37796		1.48	32.1	3.96	5.30	<0.05	0.06	0.07	0.039	0.07	10.3	24.8	0.47	670	3.22	0.01
ZZ37797		0.93	112.0	1.29	3.02	0.06	0.08	0.38	0.022	0.06	12.2	5.5	1.10	137	25.3	0.01
ZZ37798		1.27	37.6	3.40	3.00	0.05	0.07	0.15	0.042	0.09	12.6	10.5	0.26	591	5.26	0.01
ZZ37799		1.20	60.9	4.13	4.33	0.06	0.09	0.25	0.038	0.08	11.3	20.7	0.51	619	5.20	0.01
ZZ37800		1.81	47.1	2.42	2.37	<0.05	0.06	0.15	0.036	0.09	5.2	5.6	0.14	284	6.31	0.01
ZZ37801		1.41	40.2	2.69	3.12	<0.05	0.07	0.22	0.035	0.09	9.7	13.9	0.32	578	6.65	0.01
ZZ37802		2.12	46.8	4.12	4.36	0.06	0.07	0.21	0.051	0.10	14.7	19.1	0.27	650	4.63	0.01
ZZ37803		6.77	57.3	2.57	4.21	<0.05	<0.02	0.05	0.031	0.10	3.5	2.2	0.04	99	5.98	0.01
ZZ37804		1.52	22.6	2.90	4.61	<0.05	0.02	0.02	0.021	0.06	9.0	12.5	0.21	240	3.29	0.01
ZZ37805		1.07	24.9	1.83	3.22	<0.05	<0.02	0.01	0.021	0.11	7.2	5.2	0.12	129	2.88	0.01
ZZ37806		2.37	35.7	1.78	2.75	<0.05	<0.02	0.06	0.029	0.15	2.8	2.0	0.06	167	3.85	0.01
ZZ37807		2.76	50.3	2.73	3.00	<0.05	0.02	0.42	0.038	0.12	4.2	4.4	0.07	90	8.98	0.01
ZZ37808		0.96	41.7	3.36	4.77	<0.05	0.06	0.13	0.037	0.08	5.9	17.4	0.36	475	2.84	<0.01
ZZ37809		0.99	35.3	1.30	2.19	<0.05	0.06	0.30	0.031	0.06	3.6	7.0	0.19	239	1.82	<0.01
ZZ37810		1.63	47.6	2.01	1.86	<0.05	<0.02	0.07	0.035	0.09	1.8	1.7	0.04	76	10.10	0.01
ZZ37811		2.12	73.0	2.13	2.26	<0.05	0.05	0.37	0.032	0.08	5.1	7.2	0.24	231	5.91	0.02
ZZ37812		1.08	58.6	3.08	3.19	<0.05	0.04	0.17	0.038	0.07	6.5	12.5	0.36	478	4.53	0.01
ZZ37813		1.22	56.8	2.78	2.19	0.05	0.05	0.35	0.034	0.08	5.1	7.4	0.18	195	4.60	0.01
ZZ37814		1.13	59.8	2.30	1.69	0.05	0.04	0.37	0.032	0.07	3.8	4.5	0.08	218	4.70	<0.01
ZZ37815		1.06	49.7	1.78	1.53	0.05	0.04	0.30	0.024	0.07	3.5	4.2	0.09	145	4.37	0.01
ZZ37816		1.13	59.3	2.30	1.84	<0.05	0.02	0.25	0.030	0.07	4.6	4.8	0.09	194	6.11	<0.01
ZZ37817		1.03	47.9	2.35	2.53	<0.05	0.05	0.24	0.034	0.08	5.7	9.2	0.22	199	4.27	0.01
ZZ37818		0.75	38.6	4.40	1.60	0.05	0.05	0.18	0.030	0.05	3.2	3.7	0.08	749	6.53	0.01
ZZ37819		0.77	44.5	2.34	1.32	<0.05	0.06	0.20	0.028	0.06	2.6	2.8	0.06	112	4.23	0.01
ZZ37820		0.87	40.8	2.41	1.33	<0.05	0.04	0.18	0.025	0.06	2.9	2.8	0.08	222	3.82	0.02
ZZ37821		0.94	40.6	2.11	1.55	<0.05	0.04	0.16	0.028	0.06	2.8	3.0	0.06	145	4.99	0.01
ZZ37822		0.73	31.9	1.64	1.42	<0.05	0.03	0.15	0.024	0.06	2.7	3.4	0.07	93	2.88	0.01
ZZ37823		0.61	34.7	2.23	2.02	<0.05	0.04	1.76	0.027	0.05	4.0	4.3	0.39	158	3.84	0.02
ZZ37824		0.80	31.0	2.59	3.74	<0.05	0.04	0.53	0.028	0.09	4.9	9.9	0.34	313	2.90	0.01
ZZ37825		1.52	75.9	2.43	1.41	0.05	0.10	2.03	0.033	0.07	2.6	1.7	0.21	144	10.10	0.02
ZZ37826		1.67	27.3	3.33	3.12	0.05	0.08	0.07	0.038	0.10	10.0	11.4	0.20	1150	0.83	0.01
ZZ37827		3.39	21.9	3.01	3.89	<0.05	0.07	0.05	0.036	0.11	6.9	17.2	0.32	903	0.64	0.01
ZZ37828		2.65	47.8	2.83	4.25	<0.05	0.07	0.10	0.032	0.09	8.5	21.2	0.48	606	0.76	0.01
ZZ37829		2.71	48.6	3.21	5.20	<0.05	0.09	0.07	0.033	0.10	6.3	29.1	0.52	505	0.95	0.01

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37790		0.46	32.9	860	14.9	11.0	<0.001	0.06	0.39	4.9	1.1	0.7	83.1	0.01	0.03	1.8
ZZ37791		0.45	38.4	720	16.3	12.2	<0.001	0.03	0.24	6.4	0.7	0.7	70.8	0.01	0.04	3.5
ZZ37792		0.68	31.1	400	16.9	18.7	<0.001	0.02	0.35	5.4	0.6	0.7	20.5	0.01	0.07	3.3
ZZ37793		0.53	28.3	290	16.0	11.2	<0.001	0.02	0.92	4.8	0.8	0.6	22.8	<0.01	0.09	3.0
ZZ37794		0.73	32.3	510	19.2	10.4	0.001	0.03	0.80	5.9	1.3	0.7	31.9	0.01	0.08	2.2
ZZ37795		0.38	46.6	950	13.0	9.0	0.001	0.08	1.85	3.7	2.7	0.5	47.9	0.01	0.06	0.7
ZZ37796		0.82	36.6	780	19.0	10.3	0.001	0.02	1.30	4.0	1.3	0.6	25.9	0.01	0.06	2.9
ZZ37797		0.20	159.5	780	12.0	6.3	0.003	0.07	7.47	3.4	8.0	0.6	150.0	0.01	0.10	1.4
ZZ37798		0.48	57.4	1030	13.0	8.8	0.010	0.10	1.70	3.6	4.5	0.6	48.0	0.01	0.06	1.2
ZZ37799		0.35	45.5	620	22.9	7.4	0.002	0.03	2.50	6.5	1.8	0.6	24.8	0.01	0.06	3.7
ZZ37800		0.26	29.6	770	14.3	8.6	0.002	0.04	2.31	4.0	3.4	0.5	49.3	<0.01	0.08	2.2
ZZ37801		0.38	39.4	970	15.7	8.6	0.005	0.05	2.47	4.6	4.3	0.5	56.3	0.01	0.08	2.1
ZZ37802		0.56	46.7	770	17.9	11.6	0.001	0.03	1.43	5.9	1.6	0.8	31.5	0.01	0.07	3.6
ZZ37803		0.21	37.0	600	17.8	12.2	0.001	0.01	2.73	2.1	2.6	0.7	9.0	<0.01	0.09	0.7
ZZ37804		0.66	19.2	290	13.3	9.3	<0.001	0.02	1.03	2.1	0.8	0.6	8.7	<0.01	0.07	2.3
ZZ37805		0.59	16.0	280	11.6	11.5	<0.001	0.02	1.08	1.5	0.7	0.6	17.9	<0.01	0.06	1.5
ZZ37806		0.22	24.4	650	13.4	11.2	<0.001	0.10	2.05	1.8	2.1	0.6	35.1	<0.01	0.09	1.3
ZZ37807		0.29	37.8	670	13.8	10.6	0.002	0.22	1.88	3.5	4.9	0.8	91.4	<0.01	0.13	1.1
ZZ37808		0.29	37.7	370	24.5	8.7	0.001	0.08	1.35	5.4	1.8	0.6	53.0	<0.01	0.08	2.2
ZZ37809		0.16	23.4	820	12.3	7.5	0.009	0.14	1.13	4.1	5.3	0.4	84.4	<0.01	0.05	1.3
ZZ37810		0.13	48.0	350	13.4	10.3	0.001	0.04	4.48	2.3	2.4	0.5	16.9	<0.01	0.09	2.0
ZZ37811		0.16	75.3	970	12.0	8.4	0.011	0.10	3.01	4.5	5.8	0.4	88.3	<0.01	0.05	1.2
ZZ37812		0.14	59.2	800	16.1	7.4	0.002	0.04	1.59	6.6	2.5	0.4	43.8	<0.01	0.08	2.2
ZZ37813		0.11	68.5	890	13.6	7.5	0.004	0.16	1.77	8.0	2.3	0.4	64.5	<0.01	0.08	1.9
ZZ37814		0.13	64.8	1030	10.9	8.2	0.026	0.14	1.50	5.5	8.1	0.5	100.0	<0.01	0.08	1.0
ZZ37815		0.12	52.6	970	9.6	7.0	0.016	0.06	1.50	4.6	7.5	0.4	103.0	<0.01	0.05	0.9
ZZ37816		0.13	54.6	1020	11.6	7.5	0.002	0.02	1.66	5.5	4.6	0.4	72.2	<0.01	0.08	1.6
ZZ37817		0.16	49.4	920	12.5	7.6	0.004	0.12	1.56	5.9	3.4	0.4	77.5	<0.01	0.07	2.1
ZZ37818		0.13	61.8	1210	9.1	7.4	0.017	0.15	1.60	4.5	10.6	0.3	110.5	<0.01	0.08	0.9
ZZ37819		0.08	69.9	940	9.6	6.5	0.026	0.18	1.43	4.7	8.8	0.3	119.5	<0.01	0.09	0.8
ZZ37820		0.08	55.2	1040	9.3	6.5	0.016	0.13	1.20	3.9	8.1	0.3	127.5	<0.01	0.10	0.9
ZZ37821		0.08	51.4	1040	10.1	7.4	0.009	0.07	1.17	3.9	5.8	0.3	111.5	<0.01	0.14	1.0
ZZ37822		0.07	46.6	1000	9.6	6.4	0.008	0.12	0.89	3.2	4.5	0.3	120.5	<0.01	0.11	1.0
ZZ37823		0.14	57.7	850	40.6	5.7	0.002	0.14	1.55	5.3	2.7	0.4	62.2	<0.01	0.06	1.0
ZZ37824		0.24	29.2	610	25.3	7.9	<0.001	0.06	1.19	3.7	1.1	0.5	42.2	<0.01	0.04	1.3
ZZ37825		0.07	110.0	1090	13.3	6.8	0.008	0.03	1.87	6.3	7.4	0.5	97.2	<0.01	0.08	1.4
ZZ37826		0.24	26.8	510	24.4	10.4	0.001	0.02	0.47	7.2	0.9	0.5	21.4	<0.01	0.03	3.2
ZZ37827		0.34	20.7	610	23.1	13.4	<0.001	0.15	0.41	6.6	0.6	0.6	32.1	<0.01	0.02	2.9
ZZ37828		0.53	27.0	770	14.1	11.2	<0.001	0.10	0.54	5.7	0.6	0.5	48.7	<0.01	0.05	1.8
ZZ37829		0.53	29.1	580	22.6	12.7	<0.001	0.07	0.49	5.9	0.6	0.7	35.1	<0.01	0.05	2.5

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37790		<0.005	0.14	0.89	29	0.05	12.90	89	4.5
ZZ37791		0.005	0.15	0.53	32	0.06	13.05	95	3.0
ZZ37792		0.007	0.18	0.77	50	0.11	9.06	67	1.5
ZZ37793		0.010	0.14	0.63	51	0.09	5.15	122	1.3
ZZ37794		0.011	0.17	1.47	63	0.14	9.96	117	1.6
ZZ37795		0.005	0.35	2.55	56	0.09	14.20	186	1.9
ZZ37796		0.015	0.24	0.88	56	0.20	6.94	98	1.2
ZZ37797		0.005	0.57	4.45	568	0.32	38.8	680	2.0
ZZ37798		0.005	0.39	2.77	242	0.08	14.60	407	1.9
ZZ37799		0.007	0.31	1.53	71	0.11	13.60	199	2.4
ZZ37800		<0.005	0.25	2.24	73	0.08	11.50	186	1.6
ZZ37801		0.007	0.36	3.07	83	0.11	14.65	211	1.8
ZZ37802		0.007	0.38	1.33	90	0.11	15.05	187	1.7
ZZ37803		<0.005	0.37	0.44	79	0.07	2.26	199	<0.5
ZZ37804		0.012	0.18	0.41	78	0.11	2.29	100	0.6
ZZ37805		0.014	0.15	0.32	52	0.10	2.06	115	<0.5
ZZ37806		<0.005	0.26	0.38	67	0.05	2.37	222	<0.5
ZZ37807		0.005	0.38	1.71	71	0.11	7.17	166	0.5
ZZ37808		<0.005	0.27	1.05	59	0.06	11.40	140	2.1
ZZ37809		<0.005	0.17	2.39	50	0.06	12.40	88	1.9
ZZ37810		<0.005	0.36	1.00	124	0.06	3.10	328	<0.5
ZZ37811		<0.005	0.48	3.76	70	0.07	17.30	211	1.9
ZZ37812		<0.005	0.25	1.22	65	0.05	16.85	185	1.9
ZZ37813		<0.005	0.23	1.56	54	0.07	21.9	222	2.5
ZZ37814		<0.005	0.21	3.60	52	0.10	23.4	194	1.6
ZZ37815		<0.005	0.19	2.73	48	0.07	18.60	192	1.5
ZZ37816		<0.005	0.16	3.16	56	0.07	22.9	239	1.0
ZZ37817		<0.005	0.16	1.95	57	0.09	20.1	189	2.3
ZZ37818		<0.005	0.12	3.41	56	0.05	21.7	202	1.8
ZZ37819		<0.005	0.13	3.09	46	<0.05	22.0	232	1.9
ZZ37820		<0.005	0.12	2.74	50	<0.05	21.2	205	1.6
ZZ37821		<0.005	0.13	2.34	50	<0.05	20.0	206	1.3
ZZ37822		<0.005	0.12	2.23	44	0.10	16.15	170	1.2
ZZ37823		<0.005	0.20	2.25	65	0.07	18.95	269	1.4
ZZ37824		0.006	0.19	0.98	64	0.08	6.33	118	1.1
ZZ37825		<0.005	0.14	3.05	47	<0.05	24.0	377	4.9
ZZ37826		0.005	0.10	0.79	25	<0.05	19.60	96	1.9
ZZ37827		0.007	0.13	1.11	27	0.09	13.10	87	1.6
ZZ37828		0.014	0.12	1.21	32	0.13	14.70	80	1.8
ZZ37829		0.011	0.10	1.59	33	0.09	9.52	87	2.1



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37830		0.17	0.004	0.17	1.87	14.3	<0.2	<10	260	1.17	0.33	0.96	0.33	17.50	15.1	30
ZZ37831		0.12	0.003	0.02	1.96	8.4	<0.2	<10	90	1.50	0.72	0.12	0.02	18.15	27.2	38
ZZ37832		0.16	0.002	0.11	1.48	12.7	<0.2	<10	150	1.10	0.36	0.78	0.22	19.35	13.6	24
ZZ37833		0.12	0.002	0.07	1.72	12.6	<0.2	<10	170	1.29	0.40	0.65	0.15	21.5	15.8	26
ZZ37834		0.26	0.003	0.13	1.79	52.8	<0.2	<10	150	0.94	0.31	0.45	0.28	30.6	21.2	29
ZZ37835		0.20	0.002	0.11	1.93	731	<0.2	<10	160	1.01	0.35	1.45	0.31	25.7	21.4	29
ZZ37836		0.19	0.003	0.10	1.90	297	<0.2	<10	130	1.08	0.33	1.46	0.24	27.0	22.8	29
ZZ37837		0.23	0.003	0.10	1.93	625	<0.2	<10	130	1.08	0.32	0.91	0.30	27.0	23.3	29
ZZ37838		0.24	0.003	0.10	1.90	538	<0.2	<10	140	0.96	0.31	0.70	0.22	24.3	18.0	29
ZZ37839		0.14	0.003	0.12	1.83	79.3	<0.2	<10	140	0.93	0.30	0.72	0.20	22.2	19.1	30
ZZ37840		0.13	<0.001	0.08	1.94	9.9	<0.2	<10	150	0.48	0.32	0.07	0.28	20.5	22.2	32
ZZ37841		0.12	0.002	0.04	1.69	13.7	<0.2	<10	130	0.62	0.31	0.10	0.21	21.3	11.4	24
ZZ37842		0.20	0.004	0.03	1.79	11.2	<0.2	<10	120	0.39	0.31	0.07	0.18	23.3	12.8	29
ZZ37843		0.15	0.002	0.05	1.99	12.9	<0.2	<10	100	0.48	0.30	0.05	0.13	23.1	11.4	30
ZZ37844		0.19	0.002	0.05	3.21	15.0	<0.2	<10	160	1.04	0.28	0.07	0.15	21.7	24.7	38
ZZ37845		0.08	0.013	0.14	1.23	8.3	<0.2	<10	210	0.90	0.19	2.34	0.51	14.20	12.5	14
ZZ37846		0.16	0.008	0.16	2.11	10.5	<0.2	<10	160	1.19	0.27	0.87	0.25	27.3	19.6	34
ZZ37847		0.20	0.003	0.09	1.43	8.3	<0.2	10	310	0.85	0.21	1.25	0.21	16.05	14.1	22
ZZ37848		0.18	0.003	0.07	1.47	11.3	<0.2	<10	120	0.86	0.22	1.00	0.23	20.7	17.8	23
ZZ37849		0.13	0.004	0.14	1.79	9.8	<0.2	<10	160	0.93	0.25	1.02	0.27	23.1	16.8	28
ZZ37850		0.22	0.004	0.08	1.94	11.4	<0.2	<10	160	0.86	0.25	0.41	0.17	28.9	20.1	29
ZZ37851		0.16	0.004	0.07	1.80	10.8	<0.2	<10	160	0.80	0.25	0.42	0.14	25.1	15.3	27
ZZ37852		0.10	0.013	0.07	1.24	7.4	<0.2	10	170	0.62	0.17	2.23	0.25	13.35	12.6	18
ZZ37853		0.17	0.007	0.17	2.04	6.4	<0.2	<10	150	0.89	0.28	0.63	0.29	28.6	18.2	34
ZZ37854		0.30	0.004	0.13	2.00	13.8	<0.2	<10	140	1.08	0.29	0.58	0.19	30.4	20.7	31
ZZ37855		0.17	0.003	0.11	1.84	8.9	<0.2	10	220	0.92	0.25	1.41	0.62	24.2	20.3	28
ZZ37856		0.22	0.002	0.07	1.88	13.8	<0.2	<10	100	0.57	0.35	0.04	0.12	27.6	9.0	24
ZZ37857		0.18	0.006	0.09	1.93	14.2	<0.2	<10	100	0.79	0.31	0.04	0.14	28.1	10.7	23
ZZ37858		0.17	0.003	0.02	1.02	11.0	<0.2	<10	100	0.30	0.30	0.09	0.16	25.0	7.6	16
ZZ37859		0.14	0.005	0.24	1.59	8.0	<0.2	<10	360	0.88	0.22	2.21	2.09	19.45	17.3	21
ZZ37860		0.14	0.005	0.03	2.01	10.3	<0.2	<10	150	0.69	0.29	0.05	0.22	22.2	9.3	24
ZZ37861		0.25	0.004	0.06	2.11	13.5	<0.2	<10	170	1.05	0.27	0.09	0.12	28.6	20.2	30
ZZ37862		0.17	0.011	0.03	1.50	11.7	<0.2	<10	100	0.60	0.23	0.49	0.51	19.25	18.5	26
ZZ37863		0.24	0.003	0.06	1.44	14.0	<0.2	<10	60	0.78	0.31	3.58	0.13	23.2	16.9	19
ZZ37864		0.23	0.006	0.68	1.10	20.9	<0.2	<10	270	0.71	0.29	0.04	0.66	15.45	4.5	17
ZZ37865		0.18	0.004	0.42	0.80	17.4	<0.2	<10	270	0.31	0.29	0.02	0.22	15.80	4.6	14
ZZ37866		0.23	0.008	0.27	1.19	91.7	<0.2	<10	170	0.48	0.29	0.05	0.36	23.4	7.9	24
ZZ37867		0.28	0.006	0.61	1.49	90.8	<0.2	<10	300	0.59	0.29	0.24	0.68	24.5	9.9	25
ZZ37868		0.22	0.010	0.43	1.66	47.1	<0.2	<10	300	0.98	0.28	0.08	0.48	23.0	14.4	27
ZZ37869		0.27	0.005	0.37	0.45	22.5	<0.2	<10	250	0.41	0.22	0.07	0.56	12.65	8.1	11

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ37830		1.51	72.9	3.77	5.74	<0.05	0.09	0.19	0.043	0.11	8.2	28.2	0.67	385	0.69	0.02
ZZ37831		2.33	54.2	4.89	8.59	<0.05	0.03	0.01	0.047	0.10	5.7	24.3	0.53	450	0.25	0.01
ZZ37832		1.77	34.5	3.58	5.00	<0.05	0.07	0.08	0.039	0.12	8.5	21.7	0.44	589	0.59	0.01
ZZ37833		1.57	32.5	3.77	5.66	<0.05	0.05	0.05	0.039	0.11	9.1	29.0	0.51	710	0.66	0.01
ZZ37834		1.36	60.2	4.35	5.49	0.06	0.10	0.12	0.037	0.12	13.6	37.3	0.79	255	0.73	0.01
ZZ37835		2.03	77.2	5.12	5.97	0.05	0.09	0.18	0.049	0.13	12.0	43.7	1.02	1160	0.76	0.01
ZZ37836		2.31	77.2	4.54	5.76	0.05	0.15	0.15	0.038	0.15	11.6	39.9	0.96	609	0.69	0.01
ZZ37837		2.53	79.0	4.77	5.97	0.06	0.10	0.15	0.042	0.14	11.7	40.4	1.01	896	0.69	0.01
ZZ37838		1.78	75.9	4.57	5.66	0.05	0.10	0.12	0.034	0.13	11.2	36.8	0.87	685	0.61	0.01
ZZ37839		1.11	53.8	4.54	5.66	<0.05	0.10	0.12	0.041	0.11	10.1	37.1	0.81	818	0.59	0.01
ZZ37840		2.94	40.6	4.51	8.87	<0.05	0.02	0.05	0.046	0.08	8.8	27.4	0.43	1440	1.04	0.01
ZZ37841		2.58	43.6	4.39	8.97	<0.05	0.04	0.04	0.044	0.05	9.8	19.7	0.21	235	1.36	0.01
ZZ37842		2.00	33.2	4.06	7.27	<0.05	0.03	0.01	0.037	0.06	10.3	30.8	0.58	340	1.29	0.01
ZZ37843		1.22	31.2	4.65	6.95	<0.05	0.04	0.02	0.034	0.05	10.5	40.3	0.50	258	1.08	0.01
ZZ37844		2.51	74.1	5.43	7.87	<0.05	0.09	0.05	0.051	0.06	9.2	50.3	0.83	280	0.95	0.01
ZZ37845		2.37	108.0	2.42	3.55	0.05	0.05	0.15	0.032	0.06	7.2	9.9	0.42	1680	8.86	0.01
ZZ37846		0.93	89.7	4.40	6.55	0.05	0.06	0.13	0.044	0.07	13.0	40.9	1.09	527	0.89	0.01
ZZ37847		1.19	55.6	3.32	4.37	<0.05	0.07	0.10	0.033	0.08	7.1	29.6	0.76	476	0.50	0.01
ZZ37848		1.00	62.2	3.47	4.87	<0.05	0.06	0.09	0.030	0.07	9.4	33.5	0.72	559	0.61	0.01
ZZ37849		1.07	80.9	3.63	5.43	0.05	0.05	0.14	0.037	0.07	10.3	32.3	0.81	613	0.62	0.01
ZZ37850		0.89	56.5	4.10	6.15	0.05	0.05	0.06	0.036	0.07	12.8	48.0	0.91	614	0.63	0.01
ZZ37851		1.18	53.1	3.95	5.40	0.05	0.07	0.05	0.036	0.07	11.9	37.3	0.82	371	0.69	0.01
ZZ37852		1.33	59.0	2.67	3.75	<0.05	0.03	0.07	0.020	0.06	5.9	21.8	0.59	604	0.55	0.01
ZZ37853		2.56	64.9	3.77	6.06	0.05	0.08	0.14	0.039	0.10	13.8	44.1	0.96	482	0.46	0.01
ZZ37854		0.95	68.6	4.35	5.78	0.06	0.09	0.11	0.035	0.10	13.6	47.3	1.01	521	0.69	0.01
ZZ37855		0.88	55.0	3.41	5.64	0.05	0.08	0.11	0.035	0.07	9.9	42.1	0.92	657	0.82	0.01
ZZ37856		1.26	16.3	3.77	8.61	<0.05	0.04	0.01	0.027	0.04	12.5	26.8	0.24	229	1.74	0.01
ZZ37857		1.01	25.8	3.57	7.13	<0.05	0.07	0.04	0.031	0.05	12.6	20.8	0.27	307	1.51	0.01
ZZ37858		1.34	15.7	3.09	6.43	<0.05	0.02	0.01	0.020	0.05	12.3	15.9	0.25	269	1.26	0.01
ZZ37859		1.34	63.3	2.56	4.33	<0.05	0.05	0.14	0.027	0.04	8.5	18.2	0.42	3570	1.35	0.02
ZZ37860		0.87	19.6	3.76	7.88	<0.05	0.04	0.02	0.037	0.03	9.7	28.4	0.28	739	1.51	0.01
ZZ37861		1.73	32.7	4.01	5.52	<0.05	0.03	0.02	0.035	0.05	12.1	36.4	0.57	656	0.85	0.01
ZZ37862		0.83	30.2	3.93	4.71	<0.05	0.08	0.04	0.028	0.08	7.4	38.2	0.78	1420	0.90	0.01
ZZ37863		1.19	42.0	3.81	4.32	0.06	0.08	0.10	0.027	0.08	10.2	48.1	0.77	587	0.52	0.01
ZZ37864		4.72	44.9	1.94	4.68	<0.05	<0.02	0.07	0.034	0.08	7.3	2.6	0.05	64	3.81	0.01
ZZ37865		6.12	33.9	2.21	4.59	<0.05	<0.02	0.06	0.032	0.13	6.8	2.7	0.05	97	3.61	0.02
ZZ37866		5.39	29.0	3.16	5.03	<0.05	<0.02	0.05	0.029	0.09	11.1	10.1	0.28	258	2.82	0.01
ZZ37867		6.20	23.6	2.99	5.69	<0.05	<0.02	1.14	0.030	0.09	11.7	16.1	0.34	325	2.34	0.01
ZZ37868		4.10	56.0	3.41	5.11	<0.05	0.03	0.61	0.044	0.13	10.4	21.5	0.38	401	3.15	0.01
ZZ37869		4.71	44.4	2.14	2.00	<0.05	<0.02	0.08	0.031	0.14	5.0	2.7	0.05	317	4.43	0.01

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37830		0.31	32.2	780	15.6	13.8	<0.001	0.09	0.44	7.8	1.4	0.6	60.7	<0.01	0.04	1.9
ZZ37831		0.18	40.4	230	27.8	12.1	<0.001	0.01	0.23	7.0	0.4	1.1	21.0	<0.01	0.01	5.9
ZZ37832		0.35	28.2	710	23.1	16.1	<0.001	0.15	0.34	6.1	0.6	0.7	40.6	<0.01	0.04	2.6
ZZ37833		0.44	25.0	700	19.6	16.7	<0.001	0.11	0.31	5.1	0.6	0.7	37.3	<0.01	0.03	2.0
ZZ37834		0.35	38.0	540	18.6	8.1	<0.001	0.03	0.58	9.1	0.8	0.5	29.3	<0.01	0.06	4.5
ZZ37835		0.13	39.0	610	18.7	8.7	<0.001	0.01	0.52	10.6	1.0	0.4	65.3	<0.01	0.10	4.2
ZZ37836		0.12	40.1	580	18.6	8.8	0.001	0.01	0.54	9.2	0.8	0.4	58.3	<0.01	0.07	4.7
ZZ37837		0.14	41.8	660	19.7	9.4	<0.001	0.07	0.59	8.8	1.0	0.4	44.6	<0.01	0.07	3.5
ZZ37838		0.14	35.7	630	16.5	8.8	<0.001	0.07	0.52	8.5	0.7	0.4	35.9	<0.01	0.07	2.6
ZZ37839		0.22	33.1	510	17.0	9.5	0.001	0.05	0.35	8.8	1.0	0.4	45.3	<0.01	0.05	3.1
ZZ37840		0.78	19.3	470	13.9	13.7	<0.001	0.03	0.43	5.4	0.2	0.9	6.3	<0.01	0.08	2.1
ZZ37841		0.71	14.6	310	11.6	11.4	<0.001	0.13	0.63	4.0	0.2	0.9	8.0	<0.01	0.13	2.4
ZZ37842		0.84	22.2	240	12.7	10.4	<0.001	0.12	0.52	3.9	<0.2	0.7	7.4	<0.01	0.08	2.7
ZZ37843		0.83	22.2	220	14.7	9.6	<0.001	<0.01	0.50	3.7	<0.2	0.7	5.9	<0.01	0.07	2.8
ZZ37844		0.52	39.0	260	15.8	9.8	<0.001	0.03	0.55	5.6	0.8	0.6	5.7	<0.01	0.13	2.9
ZZ37845		0.33	17.6	1000	12.0	6.4	<0.001	0.13	0.42	5.9	2.3	0.3	40.1	<0.01	0.09	0.5
ZZ37846		0.40	36.7	610	16.1	6.9	0.001	0.06	0.44	10.7	2.6	0.5	36.9	<0.01	0.13	2.5
ZZ37847		0.17	25.8	630	13.6	7.6	0.003	0.11	0.32	6.2	1.6	0.3	78.9	<0.01	0.08	1.6
ZZ37848		0.19	29.5	600	14.6	6.3	<0.001	0.06	0.42	5.9	1.3	0.3	55.4	<0.01	0.09	1.5
ZZ37849		0.31	31.9	690	13.4	7.5	<0.001	0.06	0.50	6.5	1.4	0.4	50.0	<0.01	0.10	1.3
ZZ37850		0.30	33.6	300	14.2	6.6	<0.001	0.02	0.44	7.5	1.1	0.4	25.8	<0.01	0.09	3.2
ZZ37851		0.31	30.2	330	13.1	6.3	<0.001	0.02	0.45	7.3	0.9	0.3	25.8	<0.01	0.07	3.2
ZZ37852		0.19	20.2	720	9.8	7.0	<0.001	0.11	0.48	3.8	2.2	0.3	130.0	<0.01	0.07	0.5
ZZ37853		0.44	30.0	610	16.9	11.4	<0.001	0.06	0.29	10.2	1.3	0.4	60.3	<0.01	0.06	3.8
ZZ37854		0.16	37.2	590	18.5	6.2	<0.001	0.03	0.47	8.1	1.0	0.3	77.7	<0.01	0.10	4.0
ZZ37855		0.19	33.4	690	17.3	7.2	0.002	0.36	0.42	7.4	2.8	0.3	186.0	<0.01	0.09	1.9
ZZ37856		1.31	17.2	280	18.6	8.2	<0.001	0.01	0.73	3.0	0.4	0.9	7.0	0.01	0.09	3.6
ZZ37857		0.98	18.2	330	19.4	8.3	<0.001	0.02	0.73	3.4	0.5	0.8	6.3	0.02	0.09	4.1
ZZ37858		0.74	11.4	280	14.4	11.8	<0.001	0.01	0.44	2.0	0.3	0.7	8.5	<0.01	0.08	2.6
ZZ37859		0.43	22.1	2150	14.5	7.8	<0.001	0.17	0.61	2.4	3.5	0.4	194.0	0.01	0.06	0.6
ZZ37860		0.69	12.3	300	15.7	6.1	<0.001	0.02	0.41	3.3	0.5	0.8	6.3	<0.01	0.07	2.6
ZZ37861		0.61	29.7	350	17.6	9.7	<0.001	0.01	0.48	4.1	0.3	0.5	9.9	<0.01	0.06	3.7
ZZ37862		0.20	25.7	670	17.4	12.6	<0.001	0.06	0.47	3.5	0.4	0.4	34.4	<0.01	0.08	2.4
ZZ37863		0.10	32.6	560	20.8	4.4	<0.001	0.03	0.81	4.8	0.8	0.2	141.5	<0.01	0.06	5.6
ZZ37864		0.46	20.1	710	19.9	14.7	<0.001	0.04	1.62	1.2	1.4	0.8	12.3	<0.01	0.12	0.5
ZZ37865		0.34	17.0	730	20.0	13.7	<0.001	0.17	1.67	0.8	1.5	0.7	26.5	<0.01	0.10	0.2
ZZ37866		0.96	22.6	510	20.6	13.3	<0.001	0.06	1.74	2.6	2.2	0.8	17.4	<0.01	0.09	1.8
ZZ37867		0.87	22.9	550	103.5	16.3	<0.001	0.03	3.55	2.9	1.2	0.7	21.5	<0.01	0.07	2.9
ZZ37868		0.64	33.5	590	36.6	16.2	<0.001	0.06	1.96	4.4	1.9	0.6	22.6	<0.01	0.09	3.7
ZZ37869		0.12	28.7	1130	21.6	14.8	0.001	0.14	2.26	0.9	1.7	0.7	29.3	<0.01	0.10	0.2

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37830		0.006	0.13	2.12	44	0.06	14.60	112	2.2
ZZ37831		0.007	0.12	0.62	30	<0.05	9.91	94	1.0
ZZ37832		0.007	0.13	1.04	31	<0.05	14.85	95	1.8
ZZ37833		0.008	0.12	1.02	36	0.07	13.10	89	1.4
ZZ37834		0.013	0.11	0.58	46	0.07	12.00	94	3.7
ZZ37835		0.005	0.19	0.54	50	0.05	13.90	105	3.5
ZZ37836		0.005	0.11	0.49	45	0.05	10.20	98	6.0
ZZ37837		0.005	0.12	0.58	46	0.08	11.70	98	3.1
ZZ37838		0.005	0.09	0.74	47	0.05	11.45	95	2.5
ZZ37839		0.007	0.07	1.22	47	<0.05	12.30	92	2.8
ZZ37840		0.016	0.13	0.32	90	0.14	2.24	69	0.6
ZZ37841		0.013	0.13	0.38	93	0.11	2.75	42	1.7
ZZ37842		0.022	0.09	0.42	72	0.20	2.85	59	1.1
ZZ37843		0.016	0.11	0.35	64	0.14	2.26	54	1.5
ZZ37844		0.011	0.11	0.35	73	0.09	3.32	68	3.6
ZZ37845		0.012	0.21	1.02	26	0.12	21.3	34	1.6
ZZ37846		0.013	0.07	1.87	58	0.08	15.75	72	2.1
ZZ37847		0.005	0.06	1.42	36	<0.05	10.15	82	2.1
ZZ37848		0.007	0.05	1.39	37	<0.05	9.95	77	2.0
ZZ37849		0.011	0.06	1.62	44	0.08	11.10	78	1.6
ZZ37850		0.010	0.07	0.61	48	0.07	8.84	71	2.1
ZZ37851		0.011	0.07	0.56	44	0.08	8.31	75	2.3
ZZ37852		0.007	0.06	3.09	30	0.06	7.82	82	1.4
ZZ37853		0.014	0.08	0.60	50	0.07	12.45	133	2.6
ZZ37854		0.007	0.06	0.52	44	<0.05	12.40	86	3.2
ZZ37855		0.006	0.08	1.27	42	<0.05	12.85	106	3.1
ZZ37856		0.027	0.15	0.45	79	0.25	2.48	53	2.0
ZZ37857		0.022	0.13	0.57	64	0.19	3.32	49	2.8
ZZ37858		0.018	0.09	0.44	52	0.13	2.16	42	0.8
ZZ37859		0.014	0.11	5.42	34	0.07	10.25	83	1.5
ZZ37860		0.011	0.12	0.44	71	0.13	2.50	44	1.6
ZZ37861		0.012	0.13	0.72	45	0.14	5.03	74	1.2
ZZ37862		0.007	0.06	0.59	34	0.06	3.32	121	2.6
ZZ37863		0.005	0.05	0.63	20	<0.05	8.37	86	5.0
ZZ37864		0.008	0.19	1.05	70	0.11	4.13	109	<0.5
ZZ37865		0.011	0.28	0.65	63	0.13	2.90	108	<0.5
ZZ37866		0.035	0.39	0.70	62	0.28	3.71	120	<0.5
ZZ37867		0.026	0.49	0.71	64	0.25	4.13	123	<0.5
ZZ37868		0.014	0.54	1.21	62	0.15	6.59	156	1.1
ZZ37869		0.005	0.52	0.97	38	0.10	4.60	191	<0.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37870		0.23	0.011	0.67	1.13	25.4	<0.2	<10	690	0.71	0.25	0.28	0.80	25.2	11.7	20
ZZ37871		0.22	0.007	0.71	1.03	19.6	<0.2	<10	760	0.69	0.21	0.22	1.35	12.80	8.3	18
ZZ37872		0.14	0.006	1.10	0.95	22.6	<0.2	<10	400	0.95	0.16	1.44	15.45	15.65	8.3	23
ZZ37873		0.13	0.006	0.73	1.15	25.9	<0.2	<10	460	1.04	0.18	1.60	4.62	19.15	10.5	24
ZZ37874		0.21	0.005	0.27	1.51	24.1	<0.2	<10	290	1.07	0.25	0.77	0.93	23.6	16.4	25
ZZ37875		0.17	0.010	0.26	1.34	12.5	<0.2	<10	360	0.88	0.17	1.74	1.04	18.75	10.8	20
ZZ37876		0.15	0.013	0.19	0.86	14.2	<0.2	10	240	0.64	0.13	3.22	0.83	8.98	8.4	13
ZZ37877		0.18	0.011	0.68	0.64	40.3	<0.2	<10	360	1.40	0.22	0.40	0.80	44.8	20.9	9
ZZ37878		0.17	0.007	0.32	0.73	15.0	<0.2	<10	160	0.41	0.19	0.19	0.42	18.50	11.5	9
ZZ37879		0.18	0.005	0.31	1.06	25.7	<0.2	<10	200	1.13	0.25	0.87	0.86	17.30	11.4	17
ZZ37880		0.18	0.033	0.10	1.01	16.0	<0.2	10	200	1.11	0.19	3.30	0.18	17.40	9.4	16
ZZ37881		0.20	0.003	0.15	1.15	18.1	<0.2	<10	470	0.45	0.25	0.08	0.17	14.85	6.9	21
ZZ37882		0.20	0.004	0.34	0.76	17.2	<0.2	<10	440	0.49	0.23	0.03	0.26	10.00	5.3	21
ZZ37883		0.19	0.012	0.87	0.71	49.3	<0.2	<10	290	0.45	0.24	0.03	0.30	4.66	5.8	26
ZZ37884		0.24	0.007	0.77	0.68	23.3	<0.2	<10	1360	0.59	0.21	0.70	0.40	7.25	4.8	24
ZZ37885		0.18	0.010	1.16	1.06	26.8	<0.2	<10	1610	0.71	0.23	0.28	0.74	16.80	7.1	29
ZZ37886		0.19	0.006	0.40	0.42	20.5	<0.2	<10	2870	0.79	0.17	0.40	1.50	5.45	6.2	58
ZZ37887		0.21	0.004	0.40	0.34	25.2	<0.2	<10	190	0.13	0.17	0.01	0.21	14.60	2.0	16
ZZ37888		0.18	0.008	0.59	0.86	46.1	<0.2	<10	520	0.76	0.30	0.02	0.76	7.37	7.1	15
ZZ37889		0.19	0.007	0.88	0.74	60.8	<0.2	<10	290	0.41	0.29	0.01	0.36	7.77	7.4	19
ZZ37890		0.23	0.008	1.97	1.01	47.8	<0.2	<10	1210	0.51	0.24	0.15	0.62	12.60	2.7	25
ZZ37891		0.21	0.005	0.89	0.92	63.9	<0.2	<10	2080	0.95	0.21	0.14	1.35	14.35	10.0	30
ZZ37892		0.20	0.008	0.38	1.48	26.5	<0.2	<10	270	0.97	0.24	0.14	1.33	29.3	11.3	29
ZZ37893		0.18	0.007	0.30	0.83	14.9	<0.2	10	220	1.10	0.18	1.73	1.74	23.3	10.1	12
ZZ37894		0.15	0.004	0.17	0.59	9.6	<0.2	10	320	1.36	0.11	2.90	1.02	38.8	8.9	8
ZZ37895		0.22	0.005	0.39	0.51	13.3	<0.2	<10	280	1.40	0.13	4.58	1.97	37.1	10.1	9
ZZ37896		0.21	0.006	0.43	0.47	16.8	<0.2	<10	280	1.35	0.14	3.20	3.91	40.4	11.3	11
ZZ37897		0.11	0.009	0.12	0.51	7.4	<0.2	10	230	1.08	0.10	4.39	0.30	27.3	7.1	6
ZZ37898		0.21	0.006	0.10	0.58	13.1	<0.2	<10	190	1.42	0.13	2.60	0.20	40.8	15.7	11
ZZ37899		0.21	0.003	0.07	1.56	9.5	<0.2	<10	680	1.26	0.19	0.42	0.34	25.6	9.2	17
ZZ37900		0.28	0.003	0.11	2.04	39.6	<0.2	<10	250	1.04	0.30	0.12	0.34	24.1	16.0	29
ZZ37901		0.23	0.005	0.08	1.13	15.9	<0.2	<10	170	0.97	0.22	0.80	0.34	31.1	10.9	15
ZZ37902		0.24	0.004	0.09	1.30	19.5	<0.2	<10	260	1.58	0.24	2.05	0.14	24.5	15.6	21
ZZ37903		0.20	0.006	0.11	1.45	52.5	<0.2	<10	210	1.52	0.33	1.07	0.21	28.4	18.2	23
ZZ37904		0.20	0.006	0.23	1.72	58.9	<0.2	<10	330	1.47	0.34	0.84	0.50	25.4	17.1	26
ZZ37905		0.23	0.005	0.10	2.95	30.4	<0.2	<10	150	1.34	0.39	0.04	0.13	15.60	20.9	35
ZZ37906		0.12	0.005	0.15	0.83	6.9	<0.2	<10	90	1.02	0.26	1.29	0.10	14.25	9.1	13
ZZ37907		0.17	0.004	0.14	1.29	11.5	<0.2	<10	270	1.57	0.26	1.72	0.20	15.85	12.3	21
ZZ37908		0.16	0.005	0.11	1.62	16.4	<0.2	<10	190	1.22	0.39	0.83	0.14	18.80	14.0	29
ZZ37909		0.17	0.006	0.09	2.30	8.6	<0.2	<10	200	1.57	0.32	0.30	0.08	26.1	19.3	34

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37870		3.78	45.4	2.78	3.86	<0.05	0.03	0.21	0.035	0.10	9.3	16.8	0.29	341	3.84	0.01
ZZ37871		2.49	43.1	2.34	3.62	<0.05	0.05	0.22	0.032	0.09	5.6	8.3	0.19	208	5.18	0.01
ZZ37872		0.83	47.4	2.02	3.12	0.05	0.06	0.27	0.025	0.09	8.4	10.2	0.23	203	6.83	0.01
ZZ37873		1.00	46.5	2.35	3.76	0.05	0.06	0.23	0.030	0.08	9.8	13.6	0.27	379	6.02	0.01
ZZ37874		1.05	47.2	3.78	4.47	<0.05	0.05	0.14	0.036	0.11	10.1	21.4	0.49	524	4.19	0.01
ZZ37875		0.94	29.7	2.70	3.73	<0.05	0.05	0.12	0.028	0.10	8.2	13.2	0.33	507	2.45	0.01
ZZ37876		0.98	40.7	1.98	2.75	<0.05	0.04	0.19	0.019	0.07	4.0	9.0	0.29	444	1.10	0.01
ZZ37877		4.21	107.5	8.48	1.54	0.08	<0.02	0.11	0.057	0.21	20.5	2.1	0.05	367	9.40	0.01
ZZ37878		2.44	50.7	3.08	3.54	<0.05	<0.02	0.04	0.037	0.14	10.0	2.3	0.05	103	4.20	0.01
ZZ37879		0.98	31.5	3.04	3.40	0.05	0.07	0.22	0.037	0.17	8.5	13.0	0.38	291	4.02	0.01
ZZ37880		1.03	20.4	2.68	2.60	<0.05	0.08	0.13	0.035	0.14	8.1	10.8	0.42	249	0.78	0.01
ZZ37881		0.86	31.4	2.83	4.09	<0.05	0.03	0.04	0.031	0.07	6.8	13.9	0.25	175	3.04	<0.01
ZZ37882		0.90	41.1	2.72	2.78	<0.05	0.02	0.05	0.034	0.07	4.8	5.8	0.10	93	5.03	<0.01
ZZ37883		2.13	54.7	3.30	2.44	<0.05	<0.02	0.10	0.043	0.07	2.5	2.8	0.06	75	5.84	0.01
ZZ37884		0.69	43.5	2.42	2.06	<0.05	0.02	0.14	0.035	0.06	3.9	4.7	0.09	94	5.86	<0.01
ZZ37885		2.32	38.4	2.74	2.99	<0.05	0.02	0.20	0.036	0.08	7.1	11.5	0.18	137	3.59	<0.01
ZZ37886		0.77	71.8	2.52	1.26	0.07	0.02	0.08	0.034	0.07	3.8	1.3	0.02	86	9.09	<0.01
ZZ37887		2.24	19.7	1.17	3.92	<0.05	<0.02	0.04	0.014	0.05	7.2	0.9	0.02	19	4.24	0.01
ZZ37888		3.10	56.0	3.28	2.70	<0.05	0.02	0.12	0.045	0.12	3.1	7.9	0.08	133	5.72	0.01
ZZ37889		4.06	58.2	4.26	3.01	<0.05	0.02	0.10	0.043	0.13	3.7	4.9	0.11	181	7.73	0.01
ZZ37890		3.48	54.7	2.35	2.97	<0.05	0.02	0.72	0.035	0.09	6.2	9.0	0.15	31	5.26	0.01
ZZ37891		1.29	73.6	3.03	2.29	0.06	0.04	0.24	0.037	0.09	7.3	10.3	0.16	247	7.44	<0.01
ZZ37892		1.73	49.6	2.85	4.02	0.06	0.04	0.18	0.035	0.09	15.1	15.2	0.39	439	4.12	0.01
ZZ37893		0.93	30.2	2.62	2.38	0.05	0.07	0.08	0.037	0.15	10.1	9.3	0.32	537	4.63	0.01
ZZ37894		0.92	15.4	3.01	1.72	0.06	0.05	0.06	0.052	0.12	17.3	2.5	0.09	401	2.25	0.01
ZZ37895		1.77	20.1	3.45	1.53	0.06	0.04	0.11	0.060	0.16	16.8	2.5	0.29	311	4.24	0.01
ZZ37896		1.82	21.9	3.74	1.40	0.06	0.04	0.12	0.055	0.16	16.0	2.3	0.26	307	5.44	0.01
ZZ37897		1.18	12.8	2.55	1.45	0.05	0.06	0.04	0.042	0.14	13.1	2.3	0.14	260	0.95	0.01
ZZ37898		1.40	18.4	4.32	1.66	0.08	0.05	0.03	0.064	0.18	16.2	3.3	0.11	389	1.61	0.01
ZZ37899		1.71	13.9	4.33	4.97	<0.05	0.04	0.02	0.067	0.14	9.8	9.8	0.16	522	1.74	0.01
ZZ37900		1.55	30.8	4.49	5.65	<0.05	0.05	0.05	0.044	0.09	8.7	31.1	0.54	799	1.46	0.01
ZZ37901		1.32	26.2	3.14	2.97	0.05	0.09	0.07	0.035	0.15	10.0	15.0	0.38	556	3.56	0.01
ZZ37902		1.14	33.7	3.76	3.51	0.06	0.07	0.12	0.046	0.16	11.0	16.9	0.64	438	1.37	0.01
ZZ37903		1.62	47.2	4.45	4.34	0.06	0.11	0.27	0.048	0.13	13.2	22.2	0.73	732	1.29	0.01
ZZ37904		1.66	44.7	4.50	5.39	0.06	0.08	0.29	0.043	0.11	11.5	27.6	0.51	1520	0.82	0.01
ZZ37905		1.81	44.2	4.96	6.70	<0.05	0.12	0.06	0.057	0.09	6.5	43.4	0.46	326	0.87	0.01
ZZ37906		2.45	19.7	2.40	2.50	<0.05	0.06	0.07	0.034	0.11	7.1	12.4	0.28	540	0.47	0.01
ZZ37907		2.91	33.2	2.38	3.96	<0.05	0.05	0.11	0.030	0.12	5.8	16.7	0.42	1350	0.61	0.01
ZZ37908		2.51	38.9	3.53	5.98	<0.05	0.06	0.06	0.046	0.09	7.3	22.7	0.50	749	0.78	0.01
ZZ37909		1.86	45.7	4.30	8.18	0.08	0.08	0.03	0.044	0.11	17.5	29.3	0.58	463	0.48	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37870		0.34	37.1	930	19.6	13.2	<0.001	0.07	1.91	4.1	1.9	0.5	32.9	<0.01	0.08	2.5
ZZ37871		0.25	30.9	1190	12.6	15.4	0.002	0.06	2.08	3.4	2.8	0.5	24.2	<0.01	0.10	1.4
ZZ37872		0.29	235	950	10.9	9.8	0.009	0.09	3.81	3.3	5.9	0.4	51.7	<0.01	0.05	1.0
ZZ37873		0.29	96.5	860	12.5	9.0	0.005	0.11	3.03	3.2	3.8	0.5	57.6	<0.01	0.09	0.8
ZZ37874		0.29	44.2	490	16.9	8.3	0.001	0.05	1.48	5.9	1.9	0.5	27.9	<0.01	0.09	2.2
ZZ37875		0.36	28.2	1030	11.9	10.4	0.002	0.12	1.15	2.9	2.1	0.5	60.2	<0.01	0.03	0.8
ZZ37876		0.27	18.8	1080	9.5	6.8	<0.001	0.18	0.86	1.7	1.5	0.4	97.0	<0.01	0.06	0.3
ZZ37877		0.15	42.2	4740	51.7	10.1	0.003	0.18	2.56	9.3	4.6	0.5	79.5	<0.01	0.10	3.2
ZZ37878		0.06	21.9	2790	25.7	11.2	<0.001	0.16	1.48	0.3	1.9	0.7	27.7	<0.01	0.07	<0.2
ZZ37879		0.34	31.1	500	17.1	11.3	<0.001	0.07	1.44	5.6	1.8	0.6	47.7	<0.01	0.04	2.5
ZZ37880		0.33	28.0	820	13.1	9.6	<0.001	0.12	0.29	3.1	0.7	0.5	136.0	<0.01	0.02	1.0
ZZ37881		0.27	32.9	200	13.2	9.0	<0.001	0.02	0.76	3.1	1.5	0.6	12.6	<0.01	0.08	2.3
ZZ37882		0.32	58.8	320	12.5	8.5	0.001	0.02	1.06	3.8	2.7	0.5	10.4	<0.01	0.07	1.9
ZZ37883		0.15	89.0	910	14.3	10.1	<0.001	0.04	1.45	3.9	4.2	0.5	31.6	<0.01	0.09	0.7
ZZ37884		0.17	57.6	540	11.7	6.2	0.002	0.05	1.01	4.8	3.9	0.5	78.6	<0.01	0.08	1.2
ZZ37885		0.36	51.8	750	14.0	10.7	<0.001	0.05	1.83	3.9	2.7	0.6	46.0	<0.01	0.06	2.0
ZZ37886		<0.05	133.0	860	9.9	6.4	0.002	0.08	1.65	4.6	10.3	0.7	68.1	<0.01	0.08	0.4
ZZ37887		0.24	34.3	380	7.0	6.6	<0.001	0.05	0.97	1.4	2.8	0.8	24.0	<0.01	0.06	0.8
ZZ37888		0.19	35.7	620	21.3	14.9	0.001	0.08	3.05	3.1	3.4	0.6	21.3	<0.01	0.08	2.3
ZZ37889		0.21	44.7	1030	23.9	13.8	0.001	0.15	3.67	3.1	4.0	0.6	38.4	<0.01	0.11	2.5
ZZ37890		0.23	29.1	1110	16.9	12.2	0.002	0.06	1.53	3.8	4.9	0.5	44.0	<0.01	0.06	1.6
ZZ37891		0.13	81.3	1160	18.0	7.6	0.005	0.14	1.93	6.2	6.2	0.4	85.0	<0.01	0.11	3.0
ZZ37892		0.54	46.3	830	12.9	10.3	<0.001	0.04	1.85	5.5	2.0	0.6	26.0	<0.01	0.05	4.2
ZZ37893		0.36	29.7	710	12.9	9.3	0.004	0.10	1.54	3.9	2.8	0.5	63.7	<0.01	0.02	1.6
ZZ37894		0.65	30.9	1050	8.4	7.2	0.001	0.13	0.91	2.4	1.6	0.5	64.0	<0.01	0.02	1.0
ZZ37895		0.50	46.0	1080	10.0	8.3	<0.001	0.09	1.48	4.1	1.8	0.5	86.7	<0.01	0.02	2.3
ZZ37896		0.50	73.6	1190	10.4	8.1	0.001	0.12	1.97	4.3	2.2	0.6	68.8	<0.01	0.02	1.9
ZZ37897		0.37	24.2	930	6.4	7.3	<0.001	0.16	0.30	2.1	1.0	0.4	99.4	<0.01	0.01	0.9
ZZ37898		0.40	45.4	660	10.1	8.5	<0.001	0.08	0.24	6.7	0.8	0.4	57.3	<0.01	0.02	3.2
ZZ37899		0.68	17.6	430	14.3	13.8	<0.001	0.04	0.28	3.0	0.6	1.0	16.4	<0.01	0.03	3.6
ZZ37900		0.42	29.7	300	19.5	13.9	<0.001	0.03	0.41	4.7	0.7	0.7	9.9	<0.01	0.06	3.3
ZZ37901		0.21	26.6	450	16.7	9.5	<0.001	0.06	0.66	5.6	0.8	0.4	28.1	<0.01	0.02	4.6
ZZ37902		0.29	46.6	730	18.4	10.4	<0.001	0.05	0.28	5.6	1.1	0.7	70.2	<0.01	0.02	2.4
ZZ37903		0.24	39.6	470	26.5	10.8	<0.001	0.04	0.34	7.8	1.0	0.6	31.9	<0.01	0.04	5.5
ZZ37904		0.34	31.0	620	28.5	13.1	<0.001	0.06	0.41	6.5	1.2	0.7	30.4	<0.01	0.05	2.3
ZZ37905		0.52	41.0	270	26.4	15.8	<0.001	0.03	0.39	4.9	0.7	0.8	6.8	<0.01	0.06	4.2
ZZ37906		0.20	18.5	580	16.3	10.8	<0.001	0.08	0.32	5.2	0.8	0.5	26.0	<0.01	0.02	2.1
ZZ37907		0.45	23.0	760	17.8	14.2	<0.001	0.11	0.38	2.9	1.1	0.6	36.1	<0.01	0.02	0.9
ZZ37908		0.43	25.1	560	33.9	13.0	<0.001	0.06	0.34	5.2	0.7	0.8	27.0	<0.01	0.05	2.5
ZZ37909		0.37	32.3	570	12.1	17.7	<0.001	0.04	0.19	6.7	1.8	1.0	18.1	<0.01	0.04	3.2

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Project: ATACRegional- AreaD- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37870		0.009	0.55	1.46	58	0.10	12.35	161	0.9
ZZ37871		<0.005	0.47	1.49	75	0.09	9.10	169	1.2
ZZ37872		<0.005	0.82	4.06	355	0.07	16.15	1730	2.4
ZZ37873		<0.005	0.54	4.17	182	0.11	17.25	329	2.2
ZZ37874		0.007	0.24	1.56	83	0.07	10.95	166	2.0
ZZ37875		0.006	0.18	3.27	52	0.08	9.16	132	2.0
ZZ37876		0.006	0.16	3.16	28	<0.05	5.54	71	1.6
ZZ37877		<0.005	0.27	2.80	35	<0.05	17.80	198	0.9
ZZ37878		<0.005	0.17	1.95	53	0.05	5.74	139	<0.5
ZZ37879		0.006	0.32	1.35	28	0.07	12.75	128	2.8
ZZ37880		0.005	0.26	1.01	20	0.06	8.59	69	2.8
ZZ37881		0.005	0.14	0.74	51	0.08	4.71	102	1.2
ZZ37882		0.008	0.17	1.43	48	0.08	10.05	172	0.9
ZZ37883		<0.005	0.30	1.27	62	0.06	7.82	306	<0.5
ZZ37884		<0.005	0.11	2.96	55	0.06	15.50	186	0.8
ZZ37885		0.009	0.38	1.71	86	0.12	18.85	226	0.5
ZZ37886		<0.005	0.13	3.34	76	0.05	34.0	436	0.6
ZZ37887		0.010	0.26	0.74	45	0.13	3.26	117	<0.5
ZZ37888		<0.005	0.62	1.14	79	0.05	6.42	237	0.7
ZZ37889		0.005	0.71	1.03	80	0.07	4.30	240	1.0
ZZ37890		0.005	0.51	2.74	62	0.09	10.70	94	0.6
ZZ37891		0.005	0.30	4.00	61	0.08	28.7	277	1.2
ZZ37892		0.021	0.31	2.48	75	0.17	14.95	219	1.3
ZZ37893		<0.005	0.21	1.90	32	<0.05	11.30	193	2.6
ZZ37894		<0.005	0.20	0.93	35	0.06	12.50	138	1.9
ZZ37895		<0.005	0.32	1.11	55	0.06	14.50	222	1.7
ZZ37896		<0.005	0.46	1.63	164	0.06	14.10	352	1.6
ZZ37897		<0.005	0.17	1.00	13	<0.05	9.60	79	1.6
ZZ37898		<0.005	0.22	0.82	15	<0.05	14.00	120	1.8
ZZ37899		<0.005	0.26	0.58	46	0.07	4.50	97	1.1
ZZ37900		0.007	0.26	1.10	51	0.13	4.72	74	1.3
ZZ37901		0.006	0.21	1.01	35	<0.05	10.85	78	2.0
ZZ37902		0.005	0.19	0.71	24	<0.05	11.55	79	3.0
ZZ37903		0.005	0.25	0.81	30	0.05	13.70	99	4.5
ZZ37904		0.007	0.27	1.66	38	0.10	13.00	86	1.6
ZZ37905		0.007	0.21	0.58	48	0.11	3.68	70	2.9
ZZ37906		0.005	0.11	1.03	17	<0.05	13.45	68	1.5
ZZ37907		0.010	0.17	2.33	24	0.16	9.55	62	1.0
ZZ37908		0.010	0.12	1.32	35	0.11	9.12	79	1.4
ZZ37909		0.007	0.12	0.94	34	0.07	33.6	79	1.4



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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37910		0.20	0.004	0.06	1.61	24.9	<0.2	<10	190	1.08	0.39	0.38	0.15	20.6	20.1	30
ZZ37911		0.15	0.005	0.03	1.76	28.7	<0.2	<10	150	0.89	0.30	0.15	0.20	20.5	16.0	29
ZZ37912		0.22	0.006	0.10	1.85	29.9	<0.2	<10	130	1.18	0.36	0.37	0.24	26.8	21.7	30
ZZ37913		0.20	0.007	0.16	1.72	30.7	<0.2	<10	220	1.23	0.30	0.97	0.25	18.30	13.5	27
ZZ37914		0.18	0.004	0.10	2.00	22.7	<0.2	<10	140	1.14	0.31	0.62	0.27	28.7	24.8	28
ZZ37915		0.16	0.005	0.15	1.73	30.7	<0.2	<10	220	0.98	0.27	0.75	0.28	24.4	16.9	27
ZZ37916		0.23	0.005	0.13	1.66	23.1	<0.2	<10	150	1.07	0.32	1.20	0.25	22.9	20.0	24
ZZ37917		0.16	0.006	0.10	1.57	21.6	<0.2	<10	130	0.98	0.30	1.04	0.22	22.5	18.1	23
ZZ37918		0.19	0.004	0.14	1.61	23.5	<0.2	<10	140	1.19	0.33	0.71	0.22	23.3	18.4	24
ZZ37919		0.22	0.008	0.13	1.39	24.1	<0.2	<10	140	1.14	0.33	0.95	0.23	29.1	15.3	23
ZZ37920		0.11	0.005	0.03	2.18	7.2	<0.2	<10	130	0.99	0.27	0.32	0.25	59.8	9.3	42
ZZ37921		0.18	0.006	0.11	1.86	12.9	<0.2	<10	150	1.14	0.34	0.73	0.21	24.1	17.0	29
ZZ37922		0.23	0.007	0.14	1.74	15.6	<0.2	<10	150	1.16	0.41	0.81	0.19	18.05	15.2	28
ZZ37923		0.23	0.005	0.12	1.74	11.2	<0.2	<10	160	1.11	0.30	1.17	0.24	20.2	14.7	27
ZZ37924		0.20	0.006	0.12	1.58	12.7	<0.2	<10	180	0.76	0.26	0.89	0.34	20.0	11.6	24
ZZ37925		0.23	0.008	0.10	2.18	14.3	<0.2	<10	140	1.16	0.29	0.54	0.23	34.3	22.6	31
ZZ37926		0.29	0.006	0.10	2.03	16.2	<0.2	<10	160	1.12	0.32	1.37	0.24	30.8	23.2	29
ZZ37927		0.19	0.008	0.07	2.07	14.5	<0.2	<10	140	1.11	0.28	0.59	0.13	29.1	19.0	29
ZZ37928		0.19	0.006	0.16	1.79	12.5	<0.2	<10	200	0.93	0.27	1.15	0.31	29.9	16.3	29
ZZ37929		0.22	0.004	0.10	2.08	17.1	<0.2	<10	110	1.04	0.29	0.50	0.58	35.0	22.4	29
ZZ37930		0.08	0.006	0.11	1.26	7.7	<0.2	10	150	0.73	0.17	3.63	0.48	12.85	10.2	17
ZZ37931		0.11	0.009	0.11	1.61	9.9	<0.2	10	130	0.77	0.23	1.73	0.31	19.15	13.8	24
ZZ37932		0.16	0.007	0.14	1.99	12.4	<0.2	<10	200	1.05	0.27	1.14	0.27	23.8	17.6	29
ZZ37933		0.15	0.003	0.05	1.79	10.9	<0.2	<10	120	0.48	0.27	0.18	0.17	26.8	9.6	29
ZZ37934		0.19	0.007	0.03	2.31	13.5	<0.2	<10	150	1.16	0.29	0.73	0.17	31.2	21.6	31
ZZ37935		0.15	0.006	0.08	1.97	12.7	<0.2	<10	150	1.00	0.25	0.98	0.21	26.6	18.5	28
ZZ37936		0.23	0.005	0.10	2.00	12.7	<0.2	<10	140	0.99	0.28	0.77	0.24	31.1	19.7	28
ZZ37937		0.21	0.007	0.10	1.79	12.9	<0.2	<10	140	0.95	0.24	0.87	0.19	24.3	16.4	26
ZZ37938		0.15	0.005	0.10	1.50	11.9	<0.2	<10	170	0.81	0.21	1.37	0.30	23.6	12.6	22
ZZ37939		0.15	0.008	0.11	2.18	13.3	<0.2	<10	230	1.17	0.27	1.35	0.13	25.3	17.5	29
ZZ37940		0.27	0.003	0.04	2.45	13.5	<0.2	<10	160	0.98	0.28	0.08	0.12	31.1	21.6	32
ZZ37941		0.17	0.003	0.09	2.01	9.0	<0.2	<10	220	0.58	0.24	0.20	0.04	33.7	8.1	29
ZZ37942		0.26	0.003	0.04	2.41	13.4	<0.2	<10	200	1.15	0.28	0.09	0.09	38.2	18.5	33
ZZ37943		0.13	0.009	0.19	1.60	7.9	<0.2	<10	220	0.79	0.22	1.55	0.24	23.2	9.1	25
ZZ37944		0.18	0.002	0.02	1.54	27.2	<0.2	<10	130	0.39	0.26	0.18	0.07	28.6	5.5	20
ZZ37945		0.20	0.004	0.05	1.83	16.6	<0.2	<10	140	0.94	0.31	0.94	0.40	29.3	14.6	27
ZZ37946		0.16	0.003	0.09	2.19	8.0	<0.2	<10	160	0.90	0.31	0.18	0.36	29.5	10.3	29
ZZ37947		0.14	0.004	0.04	1.24	6.8	<0.2	<10	140	0.26	0.25	0.15	0.15	31.3	5.3	16
ZZ37948		0.21	0.004	0.11	2.08	9.7	<0.2	<10	300	1.13	0.29	0.44	0.08	29.3	11.3	27
ZZ37949		0.19	0.003	0.07	1.76	9.2	<0.2	<10	210	0.74	0.31	0.31	0.35	27.8	8.1	29

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37910		1.75	59.6	4.66	6.15	<0.05	0.06	0.06	0.049	0.08	7.1	25.2	0.58	888	0.90	0.01
ZZ37911		1.94	50.2	4.24	5.80	<0.05	0.06	0.08	0.041	0.11	9.5	36.0	0.56	543	0.88	0.01
ZZ37912		1.74	81.0	5.06	6.06	0.06	0.09	0.22	0.044	0.11	11.7	35.0	0.87	931	0.66	0.01
ZZ37913		1.85	63.2	4.29	5.10	0.06	0.11	0.20	0.039	0.13	9.4	32.5	0.71	454	0.71	0.01
ZZ37914		1.82	84.3	4.98	5.63	0.05	0.14	0.14	0.044	0.15	12.4	41.1	0.96	929	0.71	0.01
ZZ37915		1.03	66.6	4.38	4.85	<0.05	0.06	0.16	0.044	0.09	11.8	25.4	0.71	738	0.80	0.01
ZZ37916		1.57	63.8	4.29	4.74	0.05	0.09	0.16	0.040	0.13	10.5	33.8	0.88	766	0.60	<0.01
ZZ37917		2.58	69.5	4.36	4.43	0.05	0.10	0.13	0.037	0.13	10.3	33.4	0.81	601	0.64	0.01
ZZ37918		1.64	71.7	4.51	4.61	0.05	0.10	0.15	0.044	0.12	11.2	32.1	0.70	605	0.80	<0.01
ZZ37919		1.42	52.0	3.58	4.21	0.05	0.06	0.10	0.042	0.11	14.7	30.7	0.64	778	0.75	0.01
ZZ37920		1.93	25.6	2.88	8.20	0.05	0.03	0.02	0.039	0.11	29.2	53.4	1.21	242	0.53	<0.01
ZZ37921		1.47	65.7	4.37	5.22	0.05	0.09	0.11	0.039	0.13	10.9	38.7	0.83	522	0.88	0.01
ZZ37922		1.86	65.6	4.49	5.47	0.05	0.11	0.13	0.045	0.13	7.6	40.3	0.73	364	1.62	0.01
ZZ37923		1.11	56.3	3.57	5.17	<0.05	0.08	0.09	0.039	0.11	9.6	39.2	0.72	674	0.63	0.01
ZZ37924		1.58	41.5	3.70	4.96	<0.05	0.05	0.07	0.035	0.09	9.7	38.0	0.58	322	0.63	<0.01
ZZ37925		1.92	79.3	4.87	6.59	0.07	0.14	0.11	0.040	0.17	16.6	51.8	1.10	780	0.59	0.01
ZZ37926		1.36	94.5	5.07	5.74	0.06	0.09	0.17	0.046	0.13	14.8	40.2	1.02	788	0.74	0.01
ZZ37927		1.21	73.3	4.57	5.80	<0.05	0.10	0.11	0.037	0.11	13.2	44.1	0.93	755	0.60	0.01
ZZ37928		1.01	54.3	3.64	5.33	0.05	0.06	0.11	0.035	0.08	15.4	30.3	0.71	1570	0.83	0.01
ZZ37929		1.83	72.6	4.85	6.00	0.07	0.11	0.13	0.036	0.14	15.5	46.1	1.06	760	0.68	0.01
ZZ37930		1.03	57.8	2.57	3.50	<0.05	0.05	0.14	0.023	0.07	6.4	18.4	0.57	667	0.54	0.01
ZZ37931		1.38	59.9	3.65	4.36	<0.05	0.06	0.12	0.036	0.09	9.0	29.3	0.81	591	0.54	0.01
ZZ37932		1.92	61.4	4.40	5.57	0.05	0.09	0.14	0.039	0.10	11.6	39.3	0.85	561	0.60	0.01
ZZ37933		1.13	23.6	3.77	6.55	<0.05	0.05	0.02	0.029	0.06	13.6	32.5	0.55	314	1.21	0.01
ZZ37934		1.26	80.4	4.80	6.50	0.06	0.11	0.10	0.039	0.10	14.4	43.3	1.03	816	0.57	0.01
ZZ37935		1.07	71.5	4.46	5.61	0.06	0.09	0.11	0.038	0.11	13.0	41.6	0.97	742	0.59	0.01
ZZ37936		1.28	72.2	4.55	5.76	0.05	0.09	0.12	0.035	0.11	14.3	44.0	0.98	764	0.54	0.01
ZZ37937		1.04	61.5	4.19	5.33	0.05	0.07	0.10	0.031	0.09	12.2	39.9	0.86	601	0.61	0.01
ZZ37938		0.78	51.3	3.58	4.28	<0.05	0.06	0.09	0.031	0.08	10.6	28.7	0.67	848	0.72	0.01
ZZ37939		1.32	87.2	4.41	5.90	0.05	0.07	0.15	0.037	0.12	13.0	39.8	0.84	884	0.56	0.01
ZZ37940		1.09	57.7	4.72	6.36	<0.05	0.04	0.03	0.039	0.07	13.8	43.9	0.91	697	0.69	<0.01
ZZ37941		1.42	16.9	2.96	6.17	<0.05	0.04	0.02	0.026	0.05	16.0	26.8	0.56	184	1.02	0.01
ZZ37942		1.03	66.1	4.78	6.13	0.06	0.06	0.06	0.037	0.07	17.0	45.4	0.96	768	0.52	<0.01
ZZ37943		0.71	46.3	2.94	4.49	<0.05	0.05	0.11	0.028	0.06	12.4	29.0	0.66	419	0.59	0.01
ZZ37944		1.67	10.9	3.25	5.95	<0.05	0.04	<0.01	0.023	0.04	14.8	25.8	0.36	172	0.92	<0.01
ZZ37945		1.93	40.9	3.93	5.14	<0.05	0.03	0.08	0.042	0.07	11.4	43.6	0.51	445	1.50	0.01
ZZ37946		2.87	26.9	4.56	9.72	<0.05	<0.02	0.02	0.046	0.05	15.5	32.5	0.35	438	1.33	0.01
ZZ37947		1.36	18.6	2.45	7.00	<0.05	<0.02	0.02	0.021	0.05	16.0	13.3	0.23	128	0.91	<0.01
ZZ37948		1.45	47.3	3.61	5.73	<0.05	0.04	0.09	0.035	0.05	13.7	32.9	0.60	290	0.55	0.01
ZZ37949		1.92	36.8	3.12	6.22	<0.05	0.02	0.05	0.039	0.05	13.1	29.2	0.45	448	1.04	0.01

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ37910	0.28	30.9	470	23.1	13.3	<0.001	0.04	0.42	5.6	1.0	0.7	26.3	<0.01	0.07	2.4	
ZZ37911	0.39	25.4	360	17.9	19.2	<0.001	0.03	0.42	4.9	0.6	0.6	14.2	<0.01	0.06	2.7	
ZZ37912	0.23	39.7	670	33.4	9.2	<0.001	0.03	0.40	9.4	1.2	0.6	26.3	<0.01	0.11	4.6	
ZZ37913	0.27	30.0	660	20.6	15.3	<0.001	0.09	0.40	7.5	1.5	0.5	42.8	<0.01	0.08	2.3	
ZZ37914	0.10	43.6	520	22.1	8.4	<0.001	0.05	0.46	9.4	0.7	0.4	34.3	<0.01	0.08	4.7	
ZZ37915	0.31	33.4	480	20.8	8.3	<0.001	0.05	0.53	8.4	0.8	0.5	33.7	<0.01	0.10	2.0	
ZZ37916	0.14	35.7	520	21.1	8.1	<0.001	0.04	0.45	8.2	1.0	0.4	46.6	<0.01	0.08	3.4	
ZZ37917	0.13	36.8	690	19.5	7.9	0.001	0.05	0.50	7.4	0.6	0.4	47.7	<0.01	0.09	2.9	
ZZ37918	0.16	37.6	450	22.7	7.7	0.001	0.03	0.57	8.8	0.8	0.4	39.1	<0.01	0.08	4.3	
ZZ37919	0.33	32.2	580	23.9	9.9	<0.001	0.03	0.40	9.5	0.9	0.6	36.9	<0.01	0.06	3.1	
ZZ37920	0.62	22.3	350	16.0	20.4	<0.001	0.01	0.23	3.6	0.7	0.8	14.3	<0.01	0.03	4.6	
ZZ37921	0.26	36.1	590	18.3	7.8	<0.001	0.03	0.48	7.9	0.7	0.5	30.2	<0.01	0.06	4.5	
ZZ37922	0.25	33.6	570	22.0	8.2	0.001	0.05	0.59	7.6	1.0	0.7	39.2	<0.01	0.05	4.5	
ZZ37923	0.34	34.8	590	16.4	8.1	0.001	0.03	0.38	6.9	0.8	0.5	40.9	<0.01	0.06	3.3	
ZZ37924	0.37	26.1	490	15.3	10.5	<0.001	0.04	0.38	5.7	0.9	0.5	33.5	<0.01	0.07	2.4	
ZZ37925	0.10	42.8	590	18.3	8.5	<0.001	0.02	0.54	9.0	0.7	0.4	32.3	<0.01	0.10	5.2	
ZZ37926	0.06	41.0	480	19.6	7.1	0.001	0.02	0.51	10.6	0.7	0.4	58.4	<0.01	0.09	5.1	
ZZ37927	0.14	35.1	300	16.9	7.9	<0.001	0.03	0.45	9.6	0.9	0.4	40.6	<0.01	0.10	4.1	
ZZ37928	0.55	32.7	660	15.2	9.0	0.001	0.05	0.56	7.1	1.1	0.5	60.2	<0.01	0.07	2.3	
ZZ37929	0.10	40.6	640	19.6	8.4	<0.001	0.02	0.66	8.3	0.6	0.4	38.4	<0.01	0.09	5.1	
ZZ37930	0.20	21.9	1030	9.7	6.1	0.001	0.19	0.51	2.5	2.0	0.3	165.0	<0.01	0.06	0.4	
ZZ37931	0.21	28.4	700	12.6	7.9	0.002	0.10	0.46	5.7	1.5	0.3	87.2	<0.01	0.08	1.3	
ZZ37932	0.28	31.7	800	15.2	11.0	0.004	0.11	0.41	8.3	3.6	0.4	63.5	<0.01	0.09	2.3	
ZZ37933	0.98	20.7	170	13.5	8.7	<0.001	<0.01	0.50	3.4	0.4	0.7	14.0	<0.01	0.06	3.7	
ZZ37934	0.11	37.6	250	17.8	6.4	<0.001	0.02	0.45	9.9	0.9	0.5	36.8	<0.01	0.10	4.4	
ZZ37935	0.12	35.2	490	15.3	6.9	<0.001	0.04	0.46	8.0	0.7	0.4	42.2	<0.01	0.07	3.1	
ZZ37936	0.14	37.2	570	16.4	7.0	0.001	0.03	0.43	8.7	0.7	0.3	39.9	<0.01	0.07	3.8	
ZZ37937	0.12	32.7	550	14.4	6.6	<0.001	0.03	0.49	7.5	0.9	0.3	39.9	<0.01	0.09	2.4	
ZZ37938	0.15	26.6	680	14.2	6.7	0.001	0.07	0.48	4.7	0.7	0.3	53.5	<0.01	0.06	1.3	
ZZ37939	0.18	33.5	810	16.4	9.5	<0.001	0.05	0.48	6.5	1.3	0.4	66.4	<0.01	0.07	1.7	
ZZ37940	0.22	37.0	230	17.5	10.0	<0.001	<0.01	0.44	5.4	0.3	0.4	10.3	<0.01	0.08	4.0	
ZZ37941	0.89	18.6	480	13.5	9.5	0.001	<0.01	0.35	3.8	0.8	0.6	15.3	<0.01	0.05	3.6	
ZZ37942	0.11	37.8	220	17.6	8.2	<0.001	<0.01	0.42	7.6	0.8	0.4	10.4	<0.01	0.08	5.7	
ZZ37943	0.42	26.5	850	11.0	7.3	0.001	0.06	0.53	4.5	1.4	0.4	66.4	<0.01	0.06	1.2	
ZZ37944	0.77	11.8	180	12.7	10.6	0.001	<0.01	0.38	2.3	0.2	0.6	12.4	<0.01	0.03	3.4	
ZZ37945	0.94	31.7	450	19.3	9.7	<0.001	0.05	0.76	4.1	1.3	0.6	66.9	<0.01	0.05	2.3	
ZZ37946	0.96	15.7	490	14.3	9.0	<0.001	0.03	0.42	4.6	0.3	1.0	10.9	<0.01	0.09	2.4	
ZZ37947	0.38	10.4	270	9.7	12.2	0.001	0.01	0.33	2.6	0.2	0.6	14.9	<0.01	0.04	2.5	
ZZ37948	0.32	26.2	810	17.0	9.5	0.001	0.02	0.32	5.5	0.9	0.5	27.8	<0.01	0.07	2.4	
ZZ37949	0.66	23.7	1070	13.9	11.5	<0.001	0.04	0.37	3.5	0.8	0.7	27.2	<0.01	0.03	1.1	

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37910		0.010	0.17	0.91	42	0.06	6.87	100	1.2
ZZ37911		0.009	0.16	1.23	55	0.09	6.06	81	1.4
ZZ37912		0.013	0.17	0.72	49	<0.05	12.95	102	2.8
ZZ37913		0.007	0.17	1.91	40	0.05	15.70	107	2.0
ZZ37914		<0.005	0.12	0.60	46	<0.05	12.45	94	4.8
ZZ37915		0.011	0.18	0.86	48	0.08	14.00	85	1.2
ZZ37916		<0.005	0.19	0.69	36	<0.05	12.15	95	2.8
ZZ37917		0.005	0.15	0.72	37	<0.05	10.15	103	2.6
ZZ37918		<0.005	0.11	0.67	38	<0.05	12.95	97	3.4
ZZ37919		0.009	0.11	1.30	31	0.17	17.35	82	1.6
ZZ37920		0.017	0.14	0.80	49	0.12	6.77	83	1.0
ZZ37921		0.008	0.11	1.25	40	0.05	11.15	95	3.2
ZZ37922		0.007	0.14	1.95	35	<0.05	10.60	87	3.8
ZZ37923		0.007	0.10	1.91	34	0.07	12.25	86	2.5
ZZ37924		0.009	0.11	0.92	44	0.09	7.79	80	1.3
ZZ37925		<0.005	0.09	0.55	46	<0.05	11.65	92	5.4
ZZ37926		0.005	0.11	0.56	48	<0.05	12.95	87	3.8
ZZ37927		0.005	0.09	0.76	46	<0.05	10.15	76	3.1
ZZ37928		0.017	0.10	1.75	47	0.13	13.00	72	1.4
ZZ37929		0.005	0.10	0.69	45	<0.05	11.45	104	4.8
ZZ37930		0.006	0.08	5.00	27	<0.05	8.56	67	1.5
ZZ37931		0.008	0.08	1.21	37	<0.05	9.08	90	1.7
ZZ37932		0.007	0.09	2.23	45	0.05	11.30	100	2.5
ZZ37933		0.026	0.12	0.53	66	0.19	2.87	53	1.9
ZZ37934		<0.005	0.09	0.46	55	<0.05	11.00	78	3.8
ZZ37935		0.005	0.07	0.80	46	<0.05	10.65	79	2.7
ZZ37936		0.005	0.08	0.60	45	<0.05	12.15	85	2.9
ZZ37937		0.005	0.05	1.04	40	<0.05	11.35	79	2.0
ZZ37938		0.005	0.07	1.16	34	<0.05	9.38	84	1.6
ZZ37939		0.005	0.09	1.83	46	0.05	13.25	73	2.2
ZZ37940		0.006	0.10	0.48	52	0.09	4.23	67	1.6
ZZ37941		0.023	0.14	1.35	56	0.25	5.60	45	1.1
ZZ37942		<0.005	0.09	0.73	48	<0.05	8.23	71	2.6
ZZ37943		0.013	0.07	2.85	38	0.18	10.35	73	1.3
ZZ37944		0.021	0.14	0.40	54	0.19	2.70	38	1.4
ZZ37945		0.027	0.12	1.82	45	0.22	6.10	82	1.3
ZZ37946		0.024	0.17	0.37	95	0.20	4.22	54	<0.5
ZZ37947		0.009	0.11	0.33	59	0.08	1.91	26	<0.5
ZZ37948		0.006	0.09	2.09	44	0.09	10.45	52	1.0
ZZ37949		0.021	0.11	0.95	51	0.17	5.98	51	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
ZZ37950		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.20	0.002	0.03	1.95	14.0	<0.2	<10	140	0.61	0.34	0.07	0.13	29.9	7.9	28

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
ZZ37950		2.25	9.7	3.83	8.19	0.05	0.08	0.03	0.031	0.06	16.4	35.9	0.35	236	1.89	0.01

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ37950		1.73	15.9	230	15.1	13.5	<0.001	<0.01	0.70	2.9	0.3	0.9	9.3	<0.01	0.07	4.3

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**CERTIFICATE OF ANALYSIS WH12197549**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
ZZ37950		0.005	0.02	0.05	1	0.05	0.05	2	0.5
		0.046	0.17	0.57	76	0.34	2.91	68	2.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Account: RCM

Project: ATACRegional- AreaD- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12197549**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1  
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**CERTIFICATE WH12197610**

Project: ATACRegional- AreaD- RacklaCtral  
 P.O. No.: Soil 34  
 This report is for 203 Soil samples submitted to our lab in Whitehorse, YT, Canada on 22- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: ATACRegional- AreaD- RacklaCtral

**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57232		0.08	0.011	0.32	0.88	2.2	<0.2	<10	270	0.61	0.23	1.30	0.32	21.0	9.8	12
ZZ57233		0.19	0.005	0.16	1.50	12.5	<0.2	<10	150	0.80	0.26	0.56	0.10	27.8	10.8	24
ZZ57234		0.16	0.002	0.05	1.24	42.7	<0.2	<10	150	0.52	0.25	0.85	0.34	16.10	12.9	19
ZZ57235		0.20	0.006	0.16	1.22	36.3	<0.2	<10	160	0.82	0.26	0.92	0.39	22.5	18.4	19
ZZ39050		0.14	0.010	0.04	0.97	4.2	<0.2	<10	160	0.37	0.40	0.03	0.08	4.67	2.9	16
ZZ39051		0.11	0.003	0.06	1.36	12.1	<0.2	<10	190	0.89	0.28	0.12	0.31	17.30	14.1	20
ZZ39052		0.17	0.005	0.08	1.85	60.1	<0.2	<10	170	1.78	0.34	0.19	0.20	31.4	19.9	28
ZZ39053		0.20	0.004	0.07	1.00	10.5	<0.2	<10	180	1.51	0.20	5.04	0.15	27.5	14.8	19
ZZ39054		0.09	0.005	0.04	1.10	4.9	<0.2	<10	220	1.61	0.18	2.46	0.09	27.6	15.9	19
ZZ39055		0.15	0.005	0.17	1.29	29.8	<0.2	<10	260	0.95	0.23	1.20	0.91	18.60	11.3	21
ZZ39056		0.10	0.009	0.33	1.48	32.0	<0.2	<10	240	0.87	0.27	1.38	1.22	19.45	14.6	23
ZZ39057		0.12	0.006	0.24	0.74	74.3	<0.2	<10	120	1.33	0.15	1.88	0.51	30.9	10.6	13
ZZ39058		0.19	0.004	0.22	1.04	39.0	<0.2	<10	190	1.20	0.24	1.75	0.74	29.2	15.1	18
ZZ39059		0.14	0.003	0.55	1.55	20.2	<0.2	<10	280	1.27	0.22	2.45	2.74	35.2	11.2	50
ZZ39060		0.19	0.009	1.82	1.03	44.5	<0.2	<10	540	1.14	0.21	2.67	11.20	20.2	11.0	45
ZZ39061		0.09	0.007	0.59	0.91	19.9	<0.2	<10	450	0.60	0.16	1.24	3.76	19.45	8.7	22
ZZ39062		0.18	0.009	0.63	1.07	37.2	<0.2	<10	230	1.13	0.23	3.10	2.65	22.2	11.0	23
ZZ39063		0.14	0.008	1.21	0.53	36.1	<0.2	<10	1300	0.59	0.16	1.17	4.18	10.80	4.6	16
ZZ39064		0.25	0.005	1.16	0.73	30.4	<0.2	<10	1870	0.54	0.18	0.30	3.39	11.70	4.2	16
ZZ39065		0.15	0.006	0.89	0.68	35.2	<0.2	<10	1100	0.58	0.16	0.90	5.62	11.40	6.1	18
ZZ39066		0.14	0.014	1.70	0.41	35.5	<0.2	<10	1560	0.67	0.18	0.38	1.24	4.92	7.7	26
ZZ39067		0.12	0.008	0.67	0.97	41.6	<0.2	<10	250	0.75	0.20	0.13	0.48	8.21	8.0	35
ZZ39068		0.14	0.009	1.07	0.82	34.6	<0.2	<10	2120	0.84	0.19	0.22	0.89	8.12	7.1	44
ZZ39069		0.19	0.004	0.88	0.44	22.7	<0.2	<10	2660	0.41	0.17	0.58	0.64	4.73	3.9	22
ZZ39070		0.16	0.004	0.89	0.66	41.6	<0.2	<10	2960	0.70	0.19	0.23	1.63	10.80	6.3	27
ZZ39071		0.16	0.004	0.29	0.55	27.2	<0.2	<10	1330	0.57	0.21	0.21	1.02	11.85	6.3	17
ZZ39072		0.22	0.005	0.70	0.56	24.8	<0.2	<10	1070	0.55	0.17	0.33	0.35	7.13	5.2	20
ZZ39073		0.22	0.004	6.03	0.30	42.3	<0.2	10	1120	0.53	0.19	0.47	1.67	2.25	3.7	19
ZZ39074		0.10	0.006	1.18	0.47	33.4	<0.2	10	1280	0.61	0.14	0.87	1.10	4.86	6.2	18
ZZ39075		0.21	0.005	0.73	0.44	31.8	<0.2	<10	580	0.48	0.18	0.36	0.46	6.95	5.3	22
ZZ39076		0.16	0.003	0.29	1.12	28.5	<0.2	<10	610	0.45	0.26	0.09	0.67	18.25	4.1	26
ZZ39077		0.22	0.004	1.69	0.43	129.5	<0.2	10	1190	0.72	0.15	0.42	1.29	4.51	5.0	22
ZZ39078		0.20	0.004	0.12	1.27	16.4	<0.2	<10	310	1.66	0.33	1.18	0.15	12.45	14.4	24
ZZ39079		0.19	0.004	0.15	1.53	34.6	<0.2	<10	200	1.10	0.30	0.77	0.22	20.5	15.1	26
ZZ39080		0.19	0.007	0.23	1.67	21.0	<0.2	<10	190	1.13	0.29	1.16	0.29	18.60	13.8	28
ZZ39081		0.17	0.008	0.21	1.54	26.2	<0.2	<10	190	0.93	0.25	0.57	0.34	27.6	14.1	28
ZZ39082		0.11	0.006	0.05	1.72	13.0	<0.2	<10	130	1.05	0.45	0.23	0.17	16.60	15.6	29
ZZ39083		0.16	0.007	0.15	1.94	15.9	<0.2	<10	200	1.56	0.33	0.65	0.14	26.9	17.6	32
ZZ39084		0.20	0.005	0.11	1.72	10.7	<0.2	<10	270	1.20	0.30	0.71	0.16	21.3	13.1	29
ZZ39085		0.19	0.006	0.11	1.12	121.0	<0.2	<10	170	0.88	0.20	2.33	0.57	18.30	10.4	18

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Project: ATACRegional- AreaD- RacklaCtrl

**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57232		1.00	19.4	1.59	2.98	<0.05	<0.02	0.19	0.029	0.03	10.4	5.2	0.19	750	0.56	0.01
ZZ57233		1.17	35.3	3.00	4.85	0.05	0.04	0.12	0.028	0.05	13.7	28.2	0.50	388	0.78	0.01
ZZ57234		0.87	28.6	3.44	4.59	<0.05	0.05	0.04	0.030	0.05	7.1	28.9	0.48	397	0.89	0.01
ZZ57235		1.46	45.6	3.71	3.97	0.05	0.07	0.13	0.028	0.06	9.8	39.8	0.90	672	1.21	0.01
ZZ39050		2.72	16.9	3.11	8.25	<0.05	0.02	0.02	0.022	0.10	2.2	5.9	0.08	132	0.90	0.01
ZZ39051		2.16	18.4	2.88	6.20	<0.05	<0.02	0.05	0.034	0.12	6.7	25.9	0.25	1900	1.67	0.01
ZZ39052		1.97	57.5	5.01	5.97	0.05	0.08	0.24	0.040	0.10	11.5	28.4	0.51	1430	0.78	0.01
ZZ39053		1.12	24.2	3.59	2.88	0.06	0.08	0.07	0.047	0.16	11.1	11.9	0.41	383	1.91	0.01
ZZ39054		0.80	18.5	3.49	2.77	0.05	0.10	0.02	0.050	0.15	10.5	13.1	0.29	337	1.41	0.01
ZZ39055		0.95	31.2	3.04	4.23	<0.05	0.05	0.16	0.030	0.09	8.7	17.9	0.44	525	1.44	0.01
ZZ39056		0.83	34.3	3.49	4.85	<0.05	0.06	0.14	0.035	0.09	7.4	20.5	0.50	625	2.80	0.01
ZZ39057		2.51	19.9	3.82	2.58	0.05	0.03	0.32	0.048	0.10	14.2	8.1	0.35	350	2.94	0.01
ZZ39058		1.55	48.9	4.41	3.70	0.07	0.05	0.18	0.051	0.11	12.5	15.2	0.96	680	2.91	0.01
ZZ39059		1.08	37.1	2.76	5.08	0.05	0.04	0.25	0.034	0.05	23.3	14.0	0.30	668	4.56	0.01
ZZ39060		0.93	71.8	2.85	3.68	0.07	0.07	0.41	0.036	0.12	11.5	12.0	0.94	406	40.2	0.01
ZZ39061		0.74	26.9	2.28	3.13	<0.05	0.04	0.11	0.029	0.07	8.4	9.7	0.30	324	14.25	0.01
ZZ39062		1.31	55.4	3.77	3.72	0.06	0.08	0.29	0.039	0.11	11.1	15.4	1.57	466	9.41	0.01
ZZ39063		1.48	43.5	1.78	2.07	<0.05	0.04	0.44	0.026	0.07	4.6	4.7	0.13	102	11.50	0.01
ZZ39064		1.84	41.0	1.24	3.03	<0.05	0.02	0.43	0.032	0.08	5.3	6.3	0.09	71	12.55	<0.01
ZZ39065		1.19	42.5	1.98	2.54	0.05	0.04	0.34	0.029	0.08	5.0	6.8	0.22	227	11.80	0.01
ZZ39066		2.37	70.0	2.64	1.19	<0.05	<0.02	0.32	0.034	0.09	2.7	1.9	0.04	181	6.16	<0.01
ZZ39067		2.02	53.3	3.52	2.11	<0.05	0.05	0.09	0.045	0.07	4.1	7.8	0.10	236	6.42	0.01
ZZ39068		1.18	79.5	3.09	1.87	0.05	0.03	0.25	0.042	0.07	4.5	4.9	0.05	114	7.76	<0.01
ZZ39069		0.90	39.4	1.81	1.83	<0.05	<0.02	0.13	0.027	0.07	2.6	1.8	0.04	106	4.89	<0.01
ZZ39070		0.88	49.9	2.93	2.20	0.05	0.02	0.15	0.032	0.07	5.3	4.5	0.07	150	6.55	<0.01
ZZ39071		1.33	43.0	2.44	2.46	<0.05	<0.02	0.07	0.031	0.08	4.9	5.2	0.08	135	7.23	<0.01
ZZ39072		0.81	39.7	2.22	1.72	<0.05	0.03	0.13	0.031	0.07	3.6	4.0	0.09	74	5.28	0.01
ZZ39073		1.34	60.6	3.21	1.15	0.05	0.09	0.23	0.040	0.08	1.5	1.0	0.03	107	12.15	<0.01
ZZ39074		0.71	46.2	2.50	1.44	<0.05	0.04	0.22	0.027	0.06	2.6	3.3	0.07	69	5.55	0.01
ZZ39075		1.19	28.4	1.80	2.08	<0.05	<0.02	0.06	0.031	0.06	3.8	2.7	0.04	73	4.77	<0.01
ZZ39076		1.03	15.3	2.68	6.28	<0.05	0.02	0.05	0.027	0.05	9.2	6.5	0.10	96	3.54	<0.01
ZZ39077		1.34	56.9	3.65	1.52	0.05	0.03	0.18	0.038	0.09	2.7	1.9	0.03	65	7.25	0.01
ZZ39078		3.70	66.3	3.29	4.68	<0.05	0.05	0.05	0.031	0.13	4.8	29.4	0.44	779	1.11	0.01
ZZ39079		1.41	53.6	4.02	5.13	<0.05	0.07	0.39	0.041	0.11	9.7	24.7	0.55	593	0.98	0.01
ZZ39080		2.02	55.2	3.90	5.70	<0.05	0.08	0.16	0.044	0.12	9.8	20.0	0.61	687	0.90	0.01
ZZ39081		1.41	55.3	3.92	5.23	0.05	0.05	0.18	0.042	0.09	13.8	25.6	0.65	602	1.13	0.01
ZZ39082		1.91	26.5	3.79	6.93	<0.05	0.04	0.02	0.038	0.15	6.8	27.2	0.53	396	0.68	0.01
ZZ39083		2.10	70.0	4.61	6.16	0.06	0.11	0.13	0.046	0.14	15.0	42.5	0.74	536	0.63	0.01
ZZ39084		1.58	40.7	3.82	5.52	<0.05	0.07	0.08	0.038	0.12	9.7	37.5	0.64	354	0.50	0.01
ZZ39085		2.36	39.5	3.44	3.42	<0.05	0.07	0.47	0.033	0.09	9.0	17.5	1.13	706	0.59	0.01

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Project: ATACRegional- AreaD- RacklaCtrl

**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57232		0.29	9.0	1620	16.5	4.7	<0.001	0.12	0.21	1.5	1.2	0.3	65.1	<0.01	0.01	0.3
ZZ57233		0.63	24.8	520	15.6	8.3	<0.001	0.03	0.54	4.9	0.6	0.4	34.6	<0.01	0.04	2.5
ZZ57234		0.16	23.0	530	16.9	7.2	0.001	0.04	0.50	3.0	0.4	0.3	45.4	<0.01	0.06	1.6
ZZ57235		0.09	37.3	670	21.6	4.8	0.002	0.04	0.85	5.1	0.8	0.3	39.7	<0.01	0.06	4.1
ZZ39050		0.55	6.2	420	12.3	15.8	<0.001	0.03	0.39	1.7	<0.2	0.9	4.2	<0.01	0.03	1.8
ZZ39051		0.65	16.5	400	32.8	16.9	<0.001	0.03	0.55	2.7	0.3	0.7	8.6	<0.01	0.03	1.8
ZZ39052		0.23	34.5	350	36.6	11.3	<0.001	0.03	0.35	8.4	0.7	0.6	15.4	<0.01	0.05	5.1
ZZ39053		0.29	41.2	890	18.0	9.5	0.001	0.04	0.23	5.6	0.7	0.5	170.0	<0.01	0.02	3.3
ZZ39054		0.27	40.4	430	17.1	9.3	0.001	0.05	0.17	5.9	0.8	0.5	95.3	<0.01	0.01	2.9
ZZ39055		0.39	25.2	730	17.8	10.2	0.001	0.08	0.65	3.8	1.5	0.5	42.3	<0.01	0.05	1.1
ZZ39056		0.45	31.1	740	23.3	8.4	0.001	0.06	1.05	5.2	1.0	0.5	27.3	<0.01	0.05	2.4
ZZ39057		0.75	30.1	940	16.8	6.8	0.002	0.06	3.25	3.5	1.6	0.6	27.5	<0.01	0.05	2.0
ZZ39058		0.33	33.7	890	25.3	7.9	0.001	0.03	0.82	6.7	1.2	0.6	29.9	<0.01	0.04	4.3
ZZ39059		0.50	56.3	1130	18.5	10.5	0.001	0.08	1.30	4.4	1.9	0.6	73.1	<0.01	0.06	1.4
ZZ39060		0.29	179.0	1270	17.8	7.9	0.004	0.07	6.44	7.1	3.7	0.6	64.2	<0.01	0.10	2.5
ZZ39061		0.47	79.4	550	12.6	6.1	0.003	0.06	4.46	3.4	3.0	0.5	41.3	<0.01	0.07	1.6
ZZ39062		0.28	63.5	890	21.4	7.9	0.003	0.06	3.10	7.2	3.0	0.5	56.0	<0.01	0.08	3.9
ZZ39063		0.17	52.6	780	19.5	6.8	0.021	0.11	7.10	3.3	5.2	0.5	61.1	<0.01	0.10	1.3
ZZ39064		0.26	38.1	530	19.4	8.9	0.003	0.08	4.50	3.1	3.3	0.6	54.3	<0.01	0.10	1.2
ZZ39065		0.20	63.2	850	17.0	7.6	0.014	0.10	6.26	3.6	7.1	0.5	55.9	<0.01	0.10	1.4
ZZ39066		<0.05	98.7	1270	13.0	8.2	0.006	0.07	1.45	8.1	5.3	0.4	94.9	<0.01	0.10	1.2
ZZ39067		0.28	74.1	1160	15.3	9.9	0.003	0.04	1.49	4.8	5.5	0.4	48.5	<0.01	0.08	2.6
ZZ39068		0.06	91.3	1510	13.3	7.6	0.004	0.05	1.50	7.3	6.5	0.5	98.3	<0.01	0.10	1.9
ZZ39069		0.10	48.2	620	10.4	7.2	0.003	0.06	1.08	3.5	4.0	0.4	67.8	<0.01	0.09	0.7
ZZ39070		0.20	62.5	640	14.4	6.7	0.002	0.06	1.35	5.3	4.7	0.4	53.7	<0.01	0.08	1.7
ZZ39071		0.22	42.3	610	14.4	8.0	0.003	0.04	2.57	2.7	3.3	0.5	43.7	<0.01	0.07	1.8
ZZ39072		0.14	48.6	780	12.1	6.5	0.004	0.04	1.07	4.8	3.8	0.4	57.2	<0.01	0.09	2.1
ZZ39073		<0.05	127.0	550	12.7	6.8	0.003	0.04	2.52	5.9	11.1	0.4	59.7	<0.01	0.19	1.4
ZZ39074		0.08	81.4	860	10.5	6.5	0.012	0.10	1.12	4.9	9.7	0.3	112.5	<0.01	0.09	0.9
ZZ39075		0.19	46.7	890	11.5	8.2	0.006	0.04	1.02	3.0	4.8	0.4	72.5	<0.01	0.13	1.1
ZZ39076		1.00	34.1	480	17.2	8.0	0.001	0.02	0.83	2.5	2.0	0.7	28.4	<0.01	0.07	2.6
ZZ39077		0.06	80.4	1770	11.5	8.1	0.009	0.09	1.54	6.3	8.2	0.4	133.0	<0.01	0.15	1.3
ZZ39078		0.75	22.2	560	21.9	19.0	<0.001	0.07	0.46	4.8	0.9	0.7	62.7	<0.01	0.04	2.5
ZZ39079		0.38	29.7	550	20.7	9.9	0.001	0.05	0.41	7.4	0.9	0.6	38.4	<0.01	0.07	2.9
ZZ39080		0.37	25.1	860	23.0	19.6	0.001	0.08	0.43	7.2	1.3	0.6	57.8	<0.01	0.04	1.8
ZZ39081		0.57	32.3	520	17.9	10.8	0.001	0.04	0.61	10.7	0.8	0.5	37.6	<0.01	0.08	2.8
ZZ39082		0.51	25.9	370	16.7	19.6	<0.001	0.03	0.25	5.2	0.2	0.8	17.5	<0.01	0.03	3.9
ZZ39083		0.32	36.8	480	24.7	19.0	<0.001	0.04	0.43	10.5	1.4	0.6	35.1	<0.01	0.08	4.4
ZZ39084		0.45	29.5	500	18.5	14.5	<0.001	0.05	0.32	6.4	0.9	0.6	37.6	<0.01	0.05	2.7
ZZ39085		0.19	22.2	740	21.1	10.9	<0.001	0.09	0.31	5.3	1.4	0.3	46.6	<0.01	0.04	1.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57232		0.014	0.10	1.98	17	0.07	10.00	18	<0.5
ZZ57233		0.020	0.10	1.11	37	0.20	11.60	79	1.0
ZZ57234		0.005	0.07	0.85	31	0.05	4.28	97	1.3
ZZ57235		<0.005	0.10	0.85	26	<0.05	10.40	111	2.6
ZZ39050		0.011	0.11	0.57	35	0.14	2.41	26	0.5
ZZ39051		0.013	0.12	0.44	43	0.18	3.05	72	<0.5
ZZ39052		<0.005	0.33	0.96	35	0.08	14.65	88	2.2
ZZ39053		<0.005	0.19	0.62	23	0.06	11.65	91	4.0
ZZ39054		<0.005	0.24	0.46	25	<0.05	11.75	78	5.2
ZZ39055		0.008	0.20	1.64	32	0.11	10.30	124	1.3
ZZ39056		0.007	0.19	1.01	65	0.10	6.96	215	1.7
ZZ39057		<0.005	0.90	1.54	37	0.10	10.30	140	1.2
ZZ39058		0.006	0.27	1.03	33	0.05	14.50	130	2.0
ZZ39059		0.008	0.15	3.66	181	0.22	28.1	165	1.2
ZZ39060		0.006	0.90	5.45	368	0.23	33.0	1170	3.1
ZZ39061		0.009	0.65	4.25	184	0.16	14.75	408	1.3
ZZ39062		0.005	0.56	1.71	110	0.08	18.05	303	3.2
ZZ39063		<0.005	0.75	5.21	229	0.16	12.70	366	1.4
ZZ39064		0.006	1.18	3.31	146	0.17	10.95	260	0.8
ZZ39065		<0.005	0.50	4.63	167	0.11	12.40	390	1.6
ZZ39066		<0.005	0.22	2.76	54	<0.05	25.3	314	0.7
ZZ39067		0.005	0.30	2.27	67	0.08	11.30	255	1.8
ZZ39068		<0.005	0.22	3.32	84	0.05	30.9	285	1.4
ZZ39069		<0.005	0.21	1.97	52	0.05	10.65	172	<0.5
ZZ39070		0.005	0.22	1.98	68	0.08	24.0	223	1.0
ZZ39071		0.006	0.28	1.37	84	0.07	8.50	218	<0.5
ZZ39072		<0.005	0.13	2.28	50	0.05	17.15	177	1.4
ZZ39073		<0.005	0.10	1.34	45	<0.05	19.45	272	3.9
ZZ39074		<0.005	0.11	3.53	44	<0.05	20.6	217	1.6
ZZ39075		0.007	0.16	3.01	53	0.08	9.97	170	<0.5
ZZ39076		0.022	0.18	0.85	95	0.22	5.70	112	1.0
ZZ39077		<0.005	0.16	2.88	60	<0.05	26.8	287	1.7
ZZ39078		0.014	0.14	2.98	27	0.24	12.20	65	1.7
ZZ39079		0.008	0.19	1.25	37	0.10	15.05	91	1.8
ZZ39080		0.007	0.14	1.68	40	0.07	18.05	120	1.7
ZZ39081		0.020	0.15	1.03	45	0.12	18.55	94	1.5
ZZ39082		0.011	0.14	0.80	35	0.07	4.60	86	1.3
ZZ39083		0.007	0.14	1.40	41	0.06	24.6	106	3.1
ZZ39084		0.009	0.12	1.07	35	0.08	12.10	96	1.9
ZZ39085		<0.005	0.66	1.51	28	0.06	12.75	162	1.9



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39086		0.15	0.007	0.12	1.86	15.8	<0.2	<10	200	0.98	0.27	1.04	0.50	26.3	18.0	31
ZZ39087		0.17	0.006	0.12	1.53	24.0	<0.2	<10	190	1.06	0.30	0.82	0.20	25.0	20.4	24
ZZ39088		0.16	0.005	0.19	1.45	21.1	<0.2	<10	200	1.08	0.26	1.84	0.24	22.5	13.6	23
ZZ39089		0.18	0.007	0.13	1.78	18.7	<0.2	<10	170	1.15	0.27	0.86	0.31	27.4	21.1	30
ZZ39090		0.20	0.009	0.14	0.98	40.6	<0.2	<10	140	1.05	0.23	2.95	0.22	22.6	15.8	24
ZZ39091		0.15	0.004	0.09	1.38	13.8	<0.2	10	310	1.18	0.23	2.05	0.17	39.6	11.8	32
ZZ39093		0.14	0.004	0.05	1.64	10.3	<0.2	<10	160	1.23	0.26	1.60	0.13	42.6	12.0	37
ZZ39094		0.23	0.005	0.14	1.69	16.1	<0.2	<10	140	1.07	0.34	0.53	0.47	29.4	22.1	27
ZZ39095		0.15	0.002	0.11	1.39	11.3	<0.2	10	170	1.01	0.26	1.33	0.32	18.90	15.0	23
ZZ39096		0.24	0.005	0.12	1.88	12.1	<0.2	<10	160	0.83	0.29	0.41	0.25	37.9	18.3	32
ZZ39097		0.24	0.005	0.11	1.67	13.5	<0.2	<10	120	0.88	0.26	0.82	0.36	29.5	20.0	26
ZZ39098		0.16	0.005	0.08	1.51	44.1	<0.2	<10	80	0.79	0.26	4.27	0.34	25.6	21.6	21
ZZ39099		0.24	0.003	0.07	1.55	16.2	<0.2	<10	80	0.80	0.24	5.38	0.28	27.0	21.5	22
ZZ39100		0.18	0.004	0.10	1.79	13.4	<0.2	<10	150	0.90	0.24	0.89	0.37	29.1	22.6	29
ZZ39101		0.24	0.005	0.07	2.34	16.5	<0.2	<10	170	1.26	0.28	0.07	0.18	45.7	24.4	35
ZZ39102		0.19	0.004	0.07	1.85	12.0	<0.2	<10	140	0.79	0.25	0.54	0.25	24.9	15.9	28
ZZ39103		0.18	0.009	0.17	1.77	9.9	<0.2	<10	190	1.04	0.23	1.30	0.31	22.9	19.1	27
ZZ39104		0.19	0.006	0.13	1.97	10.5	<0.2	<10	210	0.88	0.24	0.95	0.21	25.4	17.5	32
ZZ39105		0.18	0.004	0.12	2.23	11.0	<0.2	<10	180	1.00	0.26	0.66	0.41	34.0	18.5	37
ZZ39106		0.13	0.004	0.13	1.65	10.6	<0.2	10	170	0.82	0.29	1.12	0.35	26.6	16.2	27
ZZ39107		0.17	0.004	0.13	1.79	11.8	<0.2	10	190	0.89	0.25	1.25	0.35	23.3	16.3	27
ZZ39108		0.24	0.005	0.10	2.57	19.7	<0.2	<10	180	1.55	0.30	0.15	0.15	42.7	22.7	37
ZZ39109		0.19	0.003	0.06	1.70	14.8	<0.2	<10	170	0.71	0.25	0.80	0.36	23.0	14.7	27
ZZ39110		0.17	0.003	0.14	2.49	17.7	<0.2	<10	230	1.53	0.30	0.15	0.32	38.6	24.9	34
ZZ39111		0.21	0.003	0.06	1.44	11.3	<0.2	<10	80	0.66	0.20	0.62	0.13	26.4	14.3	23
ZZ39112		0.18	0.002	0.03	1.98	14.2	<0.2	<10	110	0.88	0.26	0.05	0.13	35.1	17.3	29
ZZ39113		0.18	0.006	0.04	2.56	29.1	<0.2	<10	130	1.31	0.44	0.10	0.24	22.0	25.4	36
ZZ39114		0.16	0.007	0.08	2.28	25.6	<0.2	<10	130	1.56	0.35	0.08	0.22	43.8	26.4	33
ZZ39115		0.14	0.002	0.05	1.76	12.5	<0.2	<10	210	0.59	0.26	0.11	0.14	27.7	10.0	26
ZZ39116		0.18	0.002	0.04	1.60	9.0	<0.2	<10	130	0.60	0.24	0.30	0.22	25.2	9.4	24
ZZ39117		0.16	0.003	0.05	2.41	16.0	<0.2	<10	250	1.59	0.30	0.20	0.20	38.3	15.9	29
ZZ39118		0.16	0.003	0.02	2.29	16.0	<0.2	<10	250	1.19	0.31	0.06	0.17	26.0	13.8	29
ZZ39119		0.16	0.003	0.03	1.21	11.9	<0.2	<10	100	0.30	0.29	0.07	0.09	28.6	5.3	21
ZZ39120		0.17	0.005	0.18	1.36	23.0	<0.2	<10	170	0.92	0.26	0.87	0.24	24.3	15.2	22
ZZ39121		0.14	0.006	0.31	1.51	101.0	<0.2	<10	120	1.01	0.22	5.38	1.10	26.7	9.4	25
ZZ39122		0.17	0.002	0.67	0.97	45.3	<0.2	<10	490	0.32	0.19	0.15	1.34	13.35	4.5	21
ZZ39123		0.15	0.005	0.56	0.75	127	<0.2	<10	60	0.86	0.10	14.10	1.11	15.15	5.3	12
ZZ39124		0.14	0.007	0.68	0.58	239	<0.2	<10	70	0.85	0.08	18.15	1.37	7.14	5.7	8
ZZ39125		0.17	0.007	1.47	0.58	119.0	<0.2	10	980	0.70	0.18	1.27	1.45	8.28	6.5	24
ZZ39126		0.13	0.010	0.85	0.38	30.7	<0.2	10	900	0.53	0.18	0.83	0.42	3.58	6.3	16



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ39086		0.76	70.7	4.27	5.71	0.05	0.08	0.16	0.048	0.09	11.8	33.4	0.90	278	0.58	0.01
ZZ39087		0.78	79.4	4.88	4.42	0.05	0.06	0.17	0.044	0.08	10.4	27.1	0.67	1130	0.72	0.01
ZZ39088		0.79	91.0	4.08	4.17	0.05	0.04	0.19	0.040	0.08	13.2	22.7	0.59	810	0.89	0.01
ZZ39089		1.41	90.9	5.04	5.77	0.06	0.10	0.21	0.046	0.12	13.0	32.4	0.95	474	0.96	0.01
ZZ39090		0.57	59.7	3.85	3.21	0.05	0.16	0.28	0.039	0.09	10.8	19.5	1.48	375	0.94	0.01
ZZ39091		1.47	47.5	2.95	4.51	0.06	0.10	0.15	0.039	0.12	21.1	30.0	1.11	326	0.41	0.01
ZZ39093		1.28	30.2	3.08	5.90	0.09	0.10	0.04	0.038	0.12	23.0	41.2	1.32	343	0.23	0.01
ZZ39094		1.35	79.1	4.87	5.28	0.05	0.09	0.15	0.042	0.10	13.7	37.4	0.83	935	0.78	0.01
ZZ39095		0.87	48.2	3.76	4.30	0.05	0.07	0.15	0.040	0.10	8.4	32.3	0.68	843	0.59	0.01
ZZ39096		1.04	62.4	4.24	5.91	0.05	0.08	0.11	0.038	0.10	17.3	42.3	0.83	361	0.87	0.01
ZZ39097		0.93	71.2	4.38	4.98	0.06	0.08	0.13	0.038	0.08	13.8	39.2	0.95	756	0.60	0.01
ZZ39098		3.87	65.7	4.94	4.54	0.05	0.07	0.11	0.034	0.09	11.1	35.6	0.99	1010	0.54	0.01
ZZ39099		2.11	79.7	4.32	4.94	0.06	0.08	0.14	0.036	0.10	12.1	37.2	1.17	766	0.49	0.01
ZZ39100		1.04	72.5	5.54	5.74	0.06	0.08	0.12	0.043	0.09	13.3	39.7	0.96	1090	0.73	0.01
ZZ39101		1.19	87.3	5.23	6.40	0.06	0.06	0.06	0.045	0.08	17.2	41.8	1.01	974	0.79	0.01
ZZ39102		1.51	66.3	4.45	5.98	<0.05	0.04	0.07	0.040	0.07	11.9	41.3	0.70	738	0.62	0.01
ZZ39103		5.10	120.0	4.10	5.36	0.06	0.07	0.10	0.042	0.09	10.2	35.9	1.00	537	0.57	0.01
ZZ39104		1.71	88.9	4.35	6.06	0.05	0.07	0.12	0.042	0.09	11.0	38.8	1.05	675	0.62	0.01
ZZ39105		0.80	70.6	4.75	7.02	0.07	0.08	0.13	0.040	0.09	15.8	46.8	1.18	421	0.61	0.01
ZZ39106		1.66	57.0	4.30	4.86	0.05	0.09	0.13	0.035	0.10	13.3	35.8	0.88	1170	0.56	0.02
ZZ39107		1.65	65.4	4.17	5.27	0.05	0.07	0.11	0.037	0.11	11.0	38.6	0.92	787	0.67	0.02
ZZ39108		1.34	91.4	5.76	6.88	0.06	0.08	0.08	0.047	0.09	17.2	50.6	1.07	957	0.74	0.01
ZZ39109		0.95	38.3	4.05	5.24	<0.05	0.06	0.05	0.041	0.06	9.5	38.1	0.75	749	0.69	0.01
ZZ39110		1.30	85.2	6.38	6.12	0.06	0.08	0.07	0.057	0.07	14.0	53.2	0.97	1560	0.75	0.01
ZZ39111		0.52	47.7	3.95	4.58	0.05	0.07	0.05	0.027	0.05	12.4	43.6	1.02	563	0.48	0.01
ZZ39112		1.02	59.7	4.66	5.54	<0.05	0.09	0.04	0.038	0.06	15.9	43.8	0.78	570	0.60	0.01
ZZ39113		1.96	51.2	6.87	6.80	<0.05	0.12	0.05	0.070	0.05	8.8	61.8	0.72	648	1.40	0.01
ZZ39114		1.64	74.4	5.96	6.07	0.08	0.06	0.06	0.061	0.07	17.6	55.3	0.85	1140	1.14	0.01
ZZ39115		1.45	17.9	3.69	6.99	<0.05	0.04	0.03	0.038	0.05	13.9	34.8	0.40	364	1.05	0.01
ZZ39116		1.69	15.1	3.03	6.24	<0.05	0.02	0.02	0.031	0.05	12.8	31.2	0.44	545	1.02	0.01
ZZ39117		1.57	33.4	5.01	5.09	<0.05	0.07	0.05	0.052	0.05	12.8	46.3	0.60	932	0.80	0.01
ZZ39118		2.16	22.5	4.76	7.59	<0.05	0.06	0.03	0.054	0.05	12.4	47.3	0.45	376	1.43	0.01
ZZ39119		1.31	15.8	3.42	6.81	<0.05	0.02	0.04	0.027	0.04	14.5	14.7	0.22	236	1.39	0.01
ZZ39120		1.07	49.1	3.56	4.02	0.05	0.05	0.38	0.031	0.05	11.4	29.7	0.52	677	0.96	0.01
ZZ39121		1.00	13.3	2.62	4.41	<0.05	0.05	0.68	0.025	0.05	14.4	11.5	3.14	584	1.12	0.02
ZZ39122		1.10	13.7	2.16	4.04	<0.05	<0.02	0.24	0.020	0.08	7.0	7.2	0.12	162	4.89	0.01
ZZ39123		0.72	9.4	1.34	1.94	<0.05	0.03	0.71	0.013	0.04	8.1	5.9	7.28	397	1.00	0.02
ZZ39124		0.80	12.7	1.44	1.64	<0.05	0.04	2.58	0.012	0.05	3.6	6.3	6.69	316	1.99	0.02
ZZ39125		1.03	53.1	2.07	2.10	<0.05	0.04	0.90	0.033	0.07	4.6	5.3	0.13	245	4.96	0.02
ZZ39126		0.82	41.6	2.36	1.27	<0.05	0.04	0.24	0.033	0.07	2.0	1.7	0.04	55	5.91	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39086		0.35	34.8	600	19.9	8.1	0.001	0.08	0.39	9.5	1.8	0.4	45.6	<0.01	0.07	3.0
ZZ39087		0.15	36.1	380	22.0	6.8	<0.001	0.05	0.47	9.2	1.2	0.4	40.9	<0.01	0.07	2.4
ZZ39088		0.27	33.3	750	21.7	8.1	<0.001	0.08	0.54	6.5	1.7	0.4	82.0	<0.01	0.05	1.0
ZZ39089		0.18	40.9	680	18.8	7.5	<0.001	0.05	0.48	10.7	1.4	0.4	42.5	<0.01	0.12	3.2
ZZ39090		0.09	37.0	340	22.2	5.5	<0.001	0.05	0.44	8.0	1.5	0.4	108.5	<0.01	0.04	4.2
ZZ39091		0.40	29.6	660	14.4	11.4	0.001	0.07	0.31	7.0	1.9	0.4	54.7	<0.01	0.03	2.9
ZZ39093		0.39	34.8	710	19.2	11.5	<0.001	0.05	0.18	6.9	1.5	0.4	42.4	<0.01	0.01	4.5
ZZ39094		0.18	39.0	700	20.2	8.9	<0.001	0.04	0.44	10.3	1.3	0.4	32.3	<0.01	0.10	4.0
ZZ39095		0.21	28.1	600	17.7	9.1	0.003	0.13	0.32	7.3	2.2	0.4	67.7	<0.01	0.05	2.1
ZZ39096		0.49	35.4	520	17.8	8.8	<0.001	0.03	0.50	8.3	1.0	0.5	29.0	<0.01	0.06	4.9
ZZ39097		0.20	35.0	620	16.9	5.9	<0.001	0.05	0.49	7.8	1.0	0.3	45.5	<0.01	0.08	3.0
ZZ39098		0.14	35.6	520	18.3	7.6	0.001	0.05	0.51	7.6	0.9	0.3	127.0	<0.01	0.07	3.2
ZZ39099		0.10	35.3	550	16.8	6.9	0.001	0.03	0.44	8.6	1.0	0.3	161.0	<0.01	0.06	3.8
ZZ39100		0.27	36.6	650	15.8	7.9	<0.001	0.06	0.40	8.9	1.6	0.4	49.6	<0.01	0.08	2.7
ZZ39101		0.12	41.3	270	19.1	9.0	0.001	0.02	0.51	8.1	1.0	0.4	8.4	<0.01	0.10	5.2
ZZ39102		0.21	28.1	560	14.6	9.3	<0.001	0.04	0.42	6.8	0.8	0.4	21.6	<0.01	0.10	2.2
ZZ39103		0.24	31.8	600	12.9	7.8	<0.001	0.08	0.33	10.2	1.9	0.4	54.3	<0.01	0.09	1.6
ZZ39104		0.26	34.1	520	14.1	7.5	<0.001	0.06	0.45	9.2	1.6	0.4	34.5	<0.01	0.11	2.3
ZZ39105		0.31	39.1	760	17.2	8.2	<0.001	0.06	0.40	9.4	2.1	0.4	35.7	<0.01	0.07	3.8
ZZ39106		0.21	29.5	870	23.4	9.8	0.001	0.09	0.38	7.3	2.2	0.3	116.0	<0.01	0.07	2.0
ZZ39107		0.24	29.6	760	16.1	11.7	0.001	0.09	0.51	6.7	1.8	0.3	131.5	<0.01	0.06	1.6
ZZ39108		0.07	42.9	250	22.1	10.5	<0.001	0.03	0.48	12.1	1.5	0.4	16.6	<0.01	0.07	5.7
ZZ39109		0.30	28.1	610	15.9	8.9	<0.001	0.05	0.50	5.2	0.8	0.4	36.5	<0.01	0.06	2.0
ZZ39110		0.12	45.3	370	25.4	9.9	<0.001	0.03	0.59	8.2	0.8	0.3	16.1	<0.01	0.06	4.7
ZZ39111		0.07	29.2	370	14.3	3.7	<0.001	0.03	0.42	6.2	0.7	0.2	29.1	<0.01	0.04	3.5
ZZ39112		0.19	31.0	230	18.2	9.2	<0.001	0.02	0.50	4.8	0.5	0.3	7.4	<0.01	0.09	4.7
ZZ39113		0.50	34.7	380	32.3	11.1	<0.001	0.03	0.71	5.9	0.7	0.5	10.6	<0.01	0.10	4.6
ZZ39114		0.18	41.3	510	27.2	9.5	<0.001	0.03	0.57	12.2	1.6	0.4	10.0	<0.01	0.08	5.9
ZZ39115		0.94	17.9	300	15.3	9.5	0.001	0.03	0.41	3.5	0.7	0.7	10.7	<0.01	0.05	3.1
ZZ39116		0.92	16.0	290	13.0	10.1	0.001	0.03	0.37	2.8	0.4	0.7	24.5	<0.01	0.03	2.0
ZZ39117		0.36	36.0	570	24.5	9.1	<0.001	0.03	0.43	4.8	0.6	0.4	18.2	<0.01	0.04	4.5
ZZ39118		1.00	26.4	400	20.1	11.9	<0.001	0.02	0.60	3.6	1.9	0.4	8.3	<0.01	0.07	3.4
ZZ39119		1.03	10.7	280	14.8	8.8	<0.001	0.02	0.59	2.3	0.8	0.8	8.7	<0.01	0.06	3.0
ZZ39120		0.25	29.9	930	18.1	6.5	<0.001	0.04	0.95	4.0	1.8	0.3	48.7	<0.01	0.06	1.6
ZZ39121		0.69	24.0	550	28.7	9.1	<0.001	0.03	0.92	3.5	0.8	0.5	34.8	<0.01	0.03	1.8
ZZ39122		0.56	20.5	260	24.7	8.5	<0.001	0.05	1.40	1.7	1.7	0.6	17.1	<0.01	0.05	2.1
ZZ39123		0.27	17.2	780	55.2	6.1	<0.001	0.04	1.18	1.7	0.6	0.3	72.0	<0.01	0.01	0.6
ZZ39124		0.09	24.2	410	148.0	5.1	<0.001	0.02	2.33	2.2	1.3	0.2	66.3	<0.01	0.02	1.2
ZZ39125		0.23	66.5	880	23.9	6.7	0.010	0.10	1.67	4.9	4.9	0.4	108.5	<0.01	0.08	0.9
ZZ39126		0.07	71.2	670	10.9	6.4	0.008	0.04	1.41	5.3	5.2	0.4	73.1	<0.01	0.10	1.1



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39086		0.006	0.12	1.99	53	0.08	12.75	102	2.2
ZZ39087		<0.005	0.14	0.60	40	<0.05	12.80	84	1.4
ZZ39088		0.006	0.10	2.71	38	0.07	16.75	83	1.2
ZZ39089		0.005	0.12	1.85	53	<0.05	12.25	91	2.7
ZZ39090		<0.005	0.16	2.50	34	0.05	12.55	103	6.2
ZZ39091		0.008	0.12	1.69	29	0.06	15.20	95	3.1
ZZ39093		0.012	0.11	1.90	25	0.05	16.25	96	2.8
ZZ39094		0.006	0.13	0.95	44	<0.05	14.35	102	2.5
ZZ39095		<0.005	0.10	1.53	35	<0.05	11.30	95	2.2
ZZ39096		0.018	0.10	0.87	53	0.11	10.05	81	2.7
ZZ39097		0.008	0.08	0.92	41	0.06	11.20	88	2.2
ZZ39098		0.006	0.13	0.53	35	<0.05	10.80	84	2.4
ZZ39099		0.005	0.08	0.53	38	<0.05	9.32	82	3.8
ZZ39100		0.008	0.08	0.92	48	0.08	11.75	90	2.2
ZZ39101		<0.005	0.10	0.61	53	<0.05	6.59	75	2.4
ZZ39102		0.005	0.10	0.68	50	0.05	7.81	95	1.3
ZZ39103		0.008	0.09	0.75	45	0.05	15.05	76	1.6
ZZ39104		0.008	0.09	0.77	56	0.07	10.45	83	2.1
ZZ39105		0.007	0.09	1.79	58	0.05	11.20	103	2.7
ZZ39106		0.007	0.08	1.01	40	0.16	12.20	97	2.5
ZZ39107		0.007	0.10	1.31	42	0.05	11.05	105	1.9
ZZ39108		<0.005	0.12	0.99	55	<0.05	12.80	89	2.9
ZZ39109		0.009	0.08	1.23	42	0.08	5.30	99	1.7
ZZ39110		<0.005	0.11	0.67	49	<0.05	10.25	86	3.2
ZZ39111		<0.005	0.04	0.47	34	<0.05	8.29	66	2.4
ZZ39112		0.005	0.08	0.56	43	0.05	4.14	76	3.6
ZZ39113		0.007	0.14	0.54	53	0.10	4.53	76	4.0
ZZ39114		<0.005	0.12	1.26	44	0.05	16.95	86	2.5
ZZ39115		0.018	0.15	0.45	62	0.19	2.92	56	1.2
ZZ39116		0.024	0.11	0.49	55	0.20	3.02	71	0.5
ZZ39117		0.005	0.13	0.79	38	0.10	6.91	70	2.3
ZZ39118		0.016	0.16	0.57	62	0.19	3.13	64	2.1
ZZ39119		0.025	0.15	0.51	60	0.22	2.25	37	0.6
ZZ39120		0.008	0.11	1.75	32	0.12	11.55	90	1.3
ZZ39121		0.025	0.28	1.40	51	0.26	10.40	186	1.3
ZZ39122		0.010	0.30	0.51	88	0.18	2.36	146	0.8
ZZ39123		0.011	0.41	1.48	28	0.24	11.80	140	1.0
ZZ39124		<0.005	0.65	2.21	24	0.13	7.15	251	1.3
ZZ39125		0.005	0.33	3.28	51	0.08	16.75	211	1.9
ZZ39126		<0.005	0.12	2.63	40	<0.05	15.15	217	1.6



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39127		0.13	0.006	0.76	0.58	25.2	<0.2	10	1200	0.67	0.18	0.55	0.70	7.50	5.1	19
ZZ39128		0.22	0.007	0.73	0.73	35.2	<0.2	<10	960	0.83	0.19	0.73	0.63	10.50	8.7	20
ZZ39129		0.25	0.007	0.79	0.53	36.9	<0.2	10	1170	0.70	0.18	0.37	0.60	6.21	5.7	20
ZZ39130		0.26	0.005	0.57	0.93	19.8	<0.2	<10	1410	0.83	0.23	0.30	0.33	11.45	8.7	27
ZZ57794		0.17	0.006	2.18	0.49	21.5	<0.2	10	1850	0.46	0.14	1.38	0.74	4.78	2.8	28
ZZ57795		0.18	0.002	0.36	1.57	26.6	<0.2	<10	450	0.45	0.22	0.07	0.33	9.52	5.7	37
ZZ57796		0.17	0.004	0.41	0.75	13.7	<0.2	10	800	0.56	0.16	2.05	0.29	7.34	5.1	18
ZZ57797		0.20	0.003	0.74	1.65	57.0	<0.2	<10	200	0.76	0.29	0.04	0.87	12.45	9.6	34
ZZ57798		0.19	0.003	0.42	0.81	33.9	<0.2	<10	760	0.65	0.18	0.05	0.70	5.85	5.7	27
ZZ57799		0.20	0.003	0.09	0.69	15.1	<0.2	<10	270	0.19	0.19	0.10	0.48	20.6	2.8	13
ZZ57800		0.23	0.004	0.61	1.00	22.0	<0.2	<10	1200	0.60	0.17	0.99	0.44	11.85	6.5	23
ZZ57801		0.17	0.004	0.14	2.40	34.4	<0.2	<10	160	1.45	0.28	0.16	0.50	24.9	15.6	33
ZZ57802		0.19	0.004	0.24	1.02	12.4	<0.2	<10	150	0.20	0.28	0.04	0.13	24.8	3.1	17
ZZ57803		0.15	0.002	0.05	0.80	2.5	<0.2	<10	230	0.38	0.20	0.19	1.61	23.6	2.0	14
ZZ57804		0.13	0.008	0.49	0.67	9.1	<0.2	<10	200	0.64	0.10	4.32	1.02	13.45	4.6	26
ZZ57805		0.22	0.009	2.11	0.47	33	<0.2	10	130	1.24	0.16	11.55	23.3	34.9	5.6	39
ZZ57806		0.23	0.004	0.24	1.27	23.4	<0.2	<10	240	1.12	0.23	1.51	0.71	22.7	15.1	21
ZZ57807		0.20	0.005	0.17	1.11	18.8	<0.2	<10	240	1.13	0.20	1.67	0.71	25.0	14.5	20
ZZ57808		0.14	0.015	0.19	0.88	13.7	<0.2	10	220	0.72	0.14	3.56	0.77	10.65	8.7	12
ZZ57809		0.16	0.010	0.26	1.10	10.4	<0.2	10	240	0.90	0.17	2.50	1.36	17.20	10.9	16
ZZ57810		0.16	0.002	0.17	1.20	9.0	<0.2	10	210	1.19	0.17	1.56	0.67	25.3	12.5	17
ZZ57811		0.19	0.003	0.30	1.48	21.7	<0.2	<10	770	0.53	0.18	0.08	0.26	12.80	5.9	30
ZZ57812		0.15	0.001	0.18	1.70	14.4	<0.2	<10	770	0.59	0.22	0.70	1.17	19.00	10.9	29
ZZ57813		0.18	0.006	0.25	1.36	16.9	<0.2	<10	310	0.77	0.20	3.04	4.62	14.85	7.1	22
ZZ57814		0.17	0.004	0.14	1.08	5.2	<0.2	<10	600	0.41	0.24	1.36	2.04	18.60	4.1	17
ZZ57815		0.22	0.005	0.66	1.25	22.4	<0.2	<10	580	0.80	0.21	1.44	0.66	26.8	9.7	25
ZZ57816		0.21	0.003	0.25	1.07	13.7	<0.2	<10	590	0.42	0.21	2.11	1.67	14.35	7.3	21
ZZ57817		0.19	0.004	0.45	0.96	39.8	<0.2	<10	920	0.68	0.18	2.96	2.19	17.35	5.7	20
ZZ57818		0.20	0.003	0.15	1.74	25.2	<0.2	<10	470	0.84	0.25	0.41	0.64	29.6	9.9	28
ZZ57819		0.19	0.002	0.23	1.81	8.7	<0.2	<10	500	0.54	0.26	0.95	1.50	21.0	7.0	37
ZZ57820		0.22	0.002	0.13	1.89	21.1	<0.2	<10	550	0.58	0.26	0.60	1.14	23.0	8.7	29
ZZ57821		0.15	0.004	0.35	0.96	15.9	<0.2	<10	660	0.47	0.19	2.66	1.14	14.65	5.9	18
ZZ57822		0.18	0.006	0.98	0.39	13.0	<0.2	<10	670	0.37	0.14	1.58	0.82	7.30	5.1	12
ZZ57823		0.18	0.008	0.67	0.73	30.7	<0.2	10	920	0.54	0.12	3.63	1.08	9.79	6.8	17
ZZ57824		0.25	0.005	0.62	1.34	33.2	<0.2	<10	760	0.95	0.22	0.97	1.19	20.7	10.9	28
ZZ57825		0.17	0.006	0.81	0.57	36.8	<0.2	10	760	0.60	0.15	1.32	1.15	8.35	4.3	18
ZZ57826		0.20	0.003	0.17	1.47	51.4	<0.2	<10	700	0.76	0.22	0.84	2.67	15.85	9.7	23
ZZ57827		0.21	0.008	1.23	0.57	96.3	<0.2	10	1250	0.57	0.18	1.96	1.42	8.52	5.7	20
ZZ57828		0.19	0.004	0.70	1.65	167.0	<0.2	<10	160	1.37	0.21	4.65	2.73	26.7	9.5	26
ZZ57829		0.16	0.005	0.83	0.64	32.0	<0.2	10	1140	0.59	0.15	1.66	1.60	9.16	5.8	17

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATACRegional- AreaD- RacklaCtrl

**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39127		1.26	52.0	1.77	1.91	0.05	0.04	0.24	0.031	0.09	3.9	4.9	0.11	51	4.13	0.02
ZZ39128		1.10	53.4	2.48	2.44	<0.05	0.05	0.40	0.032	0.09	5.1	7.9	0.18	157	4.43	0.02
ZZ39129		1.14	52.0	2.09	1.78	<0.05	0.02	0.26	0.036	0.08	3.4	3.6	0.06	74	6.44	0.02
ZZ39130		0.84	41.2	2.96	2.94	<0.05	0.02	0.18	0.040	0.08	5.6	7.9	0.14	159	5.72	<0.01
ZZ57794		0.65	42.0	1.85	1.32	<0.05	0.04	0.29	0.024	0.07	3.0	1.7	0.04	58	5.45	0.01
ZZ57795		2.59	31.7	2.87	5.21	<0.05	0.03	0.04	0.033	0.07	5.0	11.6	0.12	109	6.53	0.01
ZZ57796		0.50	26.6	1.85	2.23	<0.05	0.03	0.09	0.023	0.06	4.0	5.1	0.11	83	3.41	0.02
ZZ57797		2.78	30.8	5.44	5.94	<0.05	0.04	0.07	0.055	0.10	5.4	19.1	0.13	387	6.63	0.01
ZZ57798		0.79	39.1	2.88	2.48	<0.05	<0.02	0.08	0.040	0.08	3.1	2.9	0.05	77	6.99	0.01
ZZ57799		0.84	14.3	1.37	4.57	<0.05	<0.02	0.01	0.014	0.04	9.9	1.8	0.05	55	2.86	0.01
ZZ57800		0.99	25.3	2.22	3.49	<0.05	0.03	0.10	0.029	0.07	5.8	9.8	0.17	223	3.19	0.02
ZZ57801		2.19	32.9	4.90	6.20	<0.05	0.07	0.07	0.048	0.10	9.3	32.8	0.45	568	1.55	0.01
ZZ57802		6.59	6.9	2.39	6.82	<0.05	0.03	0.01	0.015	0.07	12.8	6.5	0.15	141	3.20	0.01
ZZ57803		1.24	19.8	0.87	4.50	<0.05	<0.02	0.03	0.019	0.05	12.3	2.0	0.05	37	0.83	0.01
ZZ57804		0.61	35.1	1.38	2.16	0.05	0.03	0.17	0.017	0.04	10.9	4.8	0.26	157	2.14	0.02
ZZ57805		2.53	158.0	1.63	2.86	0.09	0.05	0.47	0.022	0.13	26.4	4.5	3.90	130	81.6	0.02
ZZ57806		1.39	46.0	3.42	4.09	<0.05	0.05	0.14	0.041	0.13	10.4	17.0	0.42	605	2.62	0.01
ZZ57807		1.44	43.8	3.50	3.54	0.05	0.06	0.17	0.042	0.12	11.3	13.7	0.40	563	2.38	0.01
ZZ57808		0.93	45.6	2.04	2.77	<0.05	0.05	0.13	0.021	0.08	5.8	10.6	0.40	435	1.52	0.02
ZZ57809		1.01	42.5	2.52	3.16	<0.05	0.06	0.13	0.029	0.12	8.0	12.8	0.39	807	3.04	0.01
ZZ57810		1.07	27.3	2.97	3.47	0.05	0.06	0.08	0.035	0.16	10.7	15.2	0.35	386	2.41	0.01
ZZ57811		1.12	19.0	2.78	4.91	<0.05	0.02	0.04	0.027	0.05	5.9	12.7	0.16	117	3.81	0.02
ZZ57812		1.42	13.7	2.77	5.61	<0.05	<0.02	0.04	0.034	0.04	11.7	12.6	0.21	1170	3.42	0.02
ZZ57813		0.89	21.1	2.21	3.86	0.05	0.02	0.09	0.028	0.03	19.9	6.4	0.17	827	1.55	0.01
ZZ57814		0.81	12.4	1.69	5.07	<0.05	<0.02	0.03	0.018	0.03	11.0	7.5	0.14	165	1.40	0.02
ZZ57815		0.95	28.0	2.48	3.90	0.05	0.03	0.17	0.028	0.06	18.1	11.0	0.43	448	2.35	0.02
ZZ57816		0.99	14.6	1.99	3.66	<0.05	<0.02	0.09	0.020	0.04	9.3	8.7	0.24	505	1.39	0.02
ZZ57817		0.93	30.2	1.93	3.22	<0.05	0.03	0.43	0.023	0.04	10.5	7.1	0.20	243	1.68	0.02
ZZ57818		1.39	14.3	3.12	5.57	<0.05	0.03	0.10	0.033	0.05	14.3	13.4	0.23	294	2.51	0.01
ZZ57819		1.22	10.3	2.34	6.97	0.05	0.02	0.02	0.038	0.04	18.0	16.0	0.25	493	1.08	0.01
ZZ57820		1.09	17.7	2.77	7.08	<0.05	0.03	0.04	0.033	0.04	13.3	13.8	0.29	418	2.12	0.01
ZZ57821		0.74	18.7	1.85	3.63	<0.05	0.02	0.10	0.019	0.05	10.7	8.8	0.21	348	2.04	0.02
ZZ57822		0.77	30.1	1.66	1.19	<0.05	0.03	0.19	0.029	0.05	4.9	3.0	0.08	174	2.50	0.02
ZZ57823		0.70	33.0	1.51	2.31	<0.05	0.04	0.59	0.021	0.06	6.4	6.6	0.24	616	1.52	0.02
ZZ57824		1.43	55.0	2.96	4.82	0.05	0.07	0.47	0.039	0.13	11.8	22.0	0.50	236	2.62	0.02
ZZ57825		1.07	41.9	1.99	2.13	<0.05	0.04	0.84	0.029	0.10	4.5	5.9	0.21	99	4.47	0.02
ZZ57826		1.36	21.6	2.46	5.09	<0.05	0.04	0.64	0.032	0.07	7.3	12.0	0.29	903	2.92	0.02
ZZ57827		1.18	27.0	1.91	2.16	<0.05	0.04	0.82	0.027	0.07	4.4	5.6	0.20	126	3.76	0.02
ZZ57828		1.28	13.9	2.71	5.03	<0.05	0.05	2.43	0.033	0.06	15.8	12.0	2.59	827	1.75	0.01
ZZ57829		0.94	40.1	1.85	2.18	<0.05	0.05	0.28	0.025	0.09	5.2	5.0	0.21	273	4.29	0.02

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**CERTIFICATE OF ANALYSIS WH12197610**

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39127		0.12	62.6	860	12.1	8.1	0.008	0.06	1.35	5.5	5.9	0.4	77.2	<0.01	0.08	1.7
ZZ39128		0.16	62.9	640	13.1	8.0	0.007	0.05	1.28	5.7	5.0	0.4	68.5	<0.01	0.09	1.9
ZZ39129		0.10	55.6	650	11.3	8.3	0.005	0.03	1.30	5.5	3.6	0.4	56.2	<0.01	0.09	1.6
ZZ39130		0.31	73.2	520	12.4	8.7	0.002	0.02	1.09	5.7	3.2	0.5	38.9	<0.01	0.06	2.0
ZZ57794		0.10	54.5	970	9.4	6.8	0.005	0.09	1.10	3.9	6.5	0.4	114.0	<0.01	0.07	1.1
ZZ57795		0.43	45.6	700	11.5	12.1	<0.001	0.02	1.66	3.0	2.7	0.7	23.5	<0.01	0.07	2.0
ZZ57796		0.30	43.7	500	9.1	5.5	0.002	0.07	0.95	2.9	4.7	0.4	121.5	<0.01	0.05	0.7
ZZ57797		1.20	42.7	1320	26.3	15.6	<0.001	0.04	2.77	3.5	3.5	0.8	21.9	<0.01	0.11	3.3
ZZ57798		0.10	83.9	520	11.3	8.2	<0.001	0.03	2.11	3.3	3.3	0.5	26.1	<0.01	0.14	1.3
ZZ57799		0.46	16.0	210	9.8	7.1	<0.001	0.01	0.94	1.5	0.8	0.6	14.0	<0.01	0.06	1.4
ZZ57800		0.32	33.4	530	11.9	8.5	0.001	0.04	1.11	3.3	1.9	0.5	55.9	<0.01	0.05	1.6
ZZ57801		0.38	31.9	280	22.2	17.0	<0.001	0.02	0.62	5.1	0.9	0.8	11.6	<0.01	0.06	4.0
ZZ57802		1.25	7.3	270	10.7	12.2	<0.001	0.03	1.11	1.6	0.6	0.9	9.6	<0.01	0.04	3.3
ZZ57803		0.46	6.7	320	13.7	8.0	<0.001	0.02	0.22	1.5	0.4	0.7	15.3	<0.01	0.01	0.6
ZZ57804		0.22	37.7	880	6.1	3.6	<0.001	0.15	1.82	1.5	2.4	0.3	95.0	<0.01	0.04	0.3
ZZ57805		0.15	180.5	1060	16.5	8.4	0.006	0.07	27.0	3.9	8.0	0.6	166.0	<0.01	0.16	2.2
ZZ57806		0.35	33.4	730	15.9	10.3	<0.001	0.05	1.24	6.4	1.2	0.5	43.4	<0.01	0.08	2.2
ZZ57807		0.32	33.0	750	14.8	8.7	0.001	0.07	1.07	6.2	1.8	0.5	42.5	<0.01	0.06	2.2
ZZ57808		0.23	26.3	880	10.4	7.4	0.001	0.15	1.32	2.1	2.3	0.3	77.4	<0.01	0.05	0.4
ZZ57809		0.32	27.9	790	11.7	9.8	0.001	0.11	2.00	3.6	2.0	0.4	54.7	<0.01	0.03	1.1
ZZ57810		0.36	27.8	640	13.1	11.4	0.001	0.06	1.04	4.7	1.6	0.5	53.2	<0.01	0.04	2.0
ZZ57811		0.36	30.4	320	12.6	8.7	<0.001	0.03	0.88	2.9	1.1	0.6	21.9	<0.01	0.07	1.8
ZZ57812		0.71	22.5	630	14.5	8.1	<0.001	0.04	0.58	2.8	0.7	0.7	21.6	<0.01	0.08	1.0
ZZ57813		0.47	22.0	1000	13.3	5.7	<0.001	0.11	0.77	1.5	1.9	0.4	27.9	<0.01	0.05	0.2
ZZ57814		0.99	11.1	430	12.5	5.0	<0.001	0.05	0.43	1.6	0.4	0.7	25.5	<0.01	0.01	0.5
ZZ57815		0.68	34.6	830	14.5	8.3	<0.001	0.04	1.10	3.7	1.7	0.5	29.5	<0.01	0.07	1.6
ZZ57816		0.77	16.7	660	12.7	8.7	<0.001	0.07	0.47	1.5	1.5	0.5	29.6	<0.01	0.03	0.4
ZZ57817		0.78	25.4	840	15.1	6.0	0.001	0.09	1.02	2.5	1.9	0.4	44.9	<0.01	0.04	0.8
ZZ57818		1.02	27.2	480	19.3	11.1	0.001	0.02	0.79	3.5	0.8	0.7	19.2	<0.01	0.07	2.7
ZZ57819		1.05	17.5	480	19.1	8.2	<0.001	0.03	0.34	3.1	0.8	0.9	19.1	<0.01	0.06	1.1
ZZ57820		1.10	20.9	270	19.2	6.0	<0.001	0.02	0.56	3.8	0.6	0.8	18.2	<0.01	0.07	2.3
ZZ57821		0.77	19.6	600	11.3	7.3	<0.001	0.07	1.21	2.0	1.4	0.5	33.8	<0.01	0.05	0.6
ZZ57822		0.11	31.3	410	9.1	5.2	0.002	0.06	1.17	2.9	2.0	0.3	35.0	<0.01	0.10	0.6
ZZ57823		0.31	26.5	1030	14.8	7.7	0.007	0.16	1.64	1.5	5.6	0.3	70.4	<0.01	0.05	0.2
ZZ57824		0.34	40.4	820	19.8	10.7	0.005	0.06	1.37	6.7	2.9	0.6	48.8	<0.01	0.09	2.8
ZZ57825		0.15	46.4	950	13.3	8.7	0.008	0.14	1.64	3.8	5.1	0.4	103.0	<0.01	0.07	1.2
ZZ57826		0.54	26.0	440	41.0	12.1	<0.001	0.03	1.19	3.2	1.0	0.6	23.6	<0.01	0.08	1.4
ZZ57827		0.22	35.8	650	20.3	7.3	0.001	0.07	1.72	3.3	3.4	0.4	53.9	<0.01	0.08	0.8
ZZ57828		0.56	24.8	890	142.0	12.7	<0.001	0.06	1.64	3.2	1.0	0.6	32.0	<0.01	0.04	0.9
ZZ57829		0.19	48.4	930	12.8	7.6	0.007	0.07	1.85	3.3	3.6	0.4	49.7	<0.01	0.09	0.9

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39127		<0.005	0.17	2.36	42	0.05	17.75	221	1.9
ZZ39128		<0.005	0.16	2.73	44	0.06	16.85	193	2.3
ZZ39129		<0.005	0.17	2.34	48	0.06	18.50	183	1.3
ZZ39130		0.006	0.09	3.35	57	0.10	17.85	186	0.8
ZZ57794		<0.005	0.14	3.62	46	0.05	23.4	140	2.3
ZZ57795		0.006	0.40	0.72	120	0.09	4.18	226	1.6
ZZ57796		0.005	0.07	2.72	42	0.20	13.55	128	1.3
ZZ57797		0.012	0.41	1.06	135	0.21	4.21	263	1.9
ZZ57798		<0.005	0.24	1.20	88	0.05	8.18	322	<0.5
ZZ57799		0.013	0.16	0.50	64	0.14	2.46	71	<0.5
ZZ57800		0.005	0.18	1.80	66	0.09	7.21	126	0.9
ZZ57801		<0.005	0.29	0.80	57	0.09	5.82	98	2.8
ZZ57802		0.034	0.31	0.41	90	0.25	1.68	43	1.2
ZZ57803		0.014	0.10	0.72	25	0.13	2.86	31	<0.5
ZZ57804		0.005	0.14	2.51	110	0.07	14.60	92	1.4
ZZ57805		0.005	1.41	13.65	931	0.32	49.2	1140	3.9
ZZ57806		0.006	0.19	0.97	43	0.05	12.10	132	1.9
ZZ57807		<0.005	0.18	0.93	36	0.05	11.35	129	2.0
ZZ57808		<0.005	0.15	3.38	30	0.05	7.81	90	1.9
ZZ57809		0.005	0.20	1.61	37	0.05	10.10	144	2.7
ZZ57810		<0.005	0.16	1.06	31	0.09	9.99	118	3.3
ZZ57811		0.005	0.23	0.68	83	0.11	4.37	104	1.0
ZZ57812		0.015	0.21	1.17	73	0.15	9.04	137	0.5
ZZ57813		0.011	0.12	1.17	53	0.10	27.4	145	0.6
ZZ57814		0.026	0.12	1.08	55	0.25	5.17	73	<0.5
ZZ57815		0.018	0.16	1.02	58	0.24	19.60	120	1.0
ZZ57816		0.024	0.13	1.92	45	0.15	10.00	136	0.5
ZZ57817		0.022	0.15	2.64	48	0.16	12.60	113	1.3
ZZ57818		0.018	0.24	1.03	74	0.23	8.89	123	1.0
ZZ57819		0.022	0.20	4.14	67	0.20	18.70	188	0.7
ZZ57820		0.019	0.20	0.88	82	0.21	6.34	78	1.1
ZZ57821		0.017	0.15	2.84	60	0.14	12.15	105	0.8
ZZ57822		<0.005	0.12	2.48	28	<0.05	14.95	120	1.1
ZZ57823		0.006	0.20	10.25	44	0.06	13.25	96	1.1
ZZ57824		0.006	0.23	1.77	69	0.06	16.65	183	2.9
ZZ57825		<0.005	0.24	2.57	62	0.05	15.20	266	1.8
ZZ57826		0.007	0.35	1.25	83	0.13	5.37	196	1.1
ZZ57827		<0.005	0.37	2.05	63	0.12	11.85	145	1.7
ZZ57828		0.014	0.73	1.31	63	0.24	15.45	492	1.2
ZZ57829		<0.005	0.21	4.85	67	0.05	14.35	203	1.7



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57830		0.30	0.002	0.76	0.78	27.0	<0.2	10	830	0.64	0.19	0.70	1.38	12.50	7.8	20
ZZ57831		0.24	0.003	0.72	0.81	40.6	<0.2	10	980	0.75	0.17	0.64	1.92	11.15	10.2	23
ZZ57832		0.23	0.002	1.20	0.87	63.8	<0.2	10	730	0.76	0.19	0.44	2.23	12.15	7.3	25
ZZ57833		0.15	0.010	0.62	0.64	274	<0.2	10	50	0.52	0.13	2.01	1.74	5.85	9.3	14
ZZ57834		0.18	0.005	1.99	1.14	23.4	<0.2	10	590	1.03	0.22	1.71	9.02	21.0	8.0	50
ZZ57835		0.21	0.004	1.29	0.93	56.3	<0.2	<10	650	0.82	0.25	0.11	0.96	5.41	5.6	39
ZZ57836		0.22	0.001	3.13	0.51	15.4	<0.2	10	720	0.17	0.19	0.10	0.75	9.36	2.1	28
ZZ57837		0.15	0.004	0.55	1.59	33.4	<0.2	<10	770	0.90	0.22	1.08	1.21	25.5	9.5	24
ZZ57838		0.19	0.003	0.18	1.30	25.9	<0.2	<10	150	0.47	0.28	0.05	0.35	24.3	8.6	23
ZZ57839		0.18	0.002	0.28	0.69	10.4	<0.2	<10	340	0.25	0.27	0.17	0.98	24.9	2.4	13
ZZ57840		0.22	0.003	0.22	2.13	40.5	<0.2	<10	310	1.12	0.28	0.41	0.66	32.3	14.5	34
ZZ57841		0.20	0.004	0.11	1.81	17.4	<0.2	<10	180	1.16	0.27	0.89	0.26	23.5	20.1	29
ZZ57842		0.17	0.001	0.08	1.39	11.8	<0.2	10	150	0.87	0.21	1.88	0.31	18.30	14.3	21
ZZ57843		0.19	0.003	0.13	1.51	14.3	<0.2	10	150	1.18	0.24	1.36	0.18	18.50	13.2	23
ZZ57844		0.15	0.004	0.20	1.13	10.3	<0.2	10	180	0.92	0.18	2.68	0.24	10.30	10.0	16
ZZ57845		0.35	0.004	0.15	1.59	7.8	<0.2	<10	120	0.84	0.30	0.40	0.26	36.0	17.3	27
ZZ57846		0.26	0.004	0.11	1.91	12.8	<0.2	<10	160	0.99	0.29	0.72	0.25	31.0	20.0	29
ZZ57847		0.15	0.002	0.10	1.39	8.7	<0.2	20	220	0.72	0.21	2.25	0.30	17.90	12.8	20
ZZ57848		0.17	0.003	0.11	1.48	10.9	<0.2	10	170	0.82	0.23	1.54	0.39	20.9	14.2	22
ZZ57849		0.16	0.007	0.12	1.64	13.6	<0.2	10	180	0.88	0.26	1.68	0.29	24.2	17.0	24
ZZ57850		0.14	0.003	0.09	1.58	13.6	<0.2	20	230	0.87	0.24	1.69	0.23	19.75	14.9	23
ZZ57851		0.12	0.004	0.07	1.61	12.2	<0.2	10	180	0.78	0.24	1.69	0.23	17.45	14.5	23
ZZ57852		0.18	0.004	0.09	1.64	204	<0.2	<10	190	1.00	0.27	0.96	0.22	22.9	15.2	25
ZZ57853		0.19	0.002	0.07	1.55	110.5	<0.2	<10	150	0.94	0.26	0.50	0.26	24.7	15.7	24
ZZ57854		0.24	0.003	0.15	1.74	66.1	<0.2	<10	190	0.79	0.26	0.35	0.29	34.1	15.0	31
ZZ57855		0.27	0.002	0.02	2.15	23.0	<0.2	<10	160	0.95	0.26	0.07	0.26	34.7	25.4	32
ZZ57856		0.24	0.006	0.09	1.41	37.2	<0.2	<10	160	1.01	0.23	2.01	0.44	20.6	27.2	28
ZZ57857		0.21	0.003	0.14	1.73	156.5	<0.2	10	180	0.83	0.21	1.13	0.63	20.4	15.0	26
ZZ57858		0.15	0.003	0.12	1.65	322	<0.2	10	150	0.89	0.23	1.63	0.28	20.7	14.8	24
ZZ57859		0.17	0.011	0.13	1.29	227	<0.2	10	170	0.72	0.16	2.36	0.37	14.35	11.1	18
ZZ57860		0.16	0.003	0.11	1.67	224	<0.2	10	140	0.75	0.20	1.48	0.29	18.65	13.8	25
ZZ57861		0.18	0.001	0.04	1.46	8.8	<0.2	<10	170	0.36	0.21	0.11	0.17	28.3	5.8	20
ZZ57862		0.25	0.002	0.04	2.11	10.6	<0.2	<10	110	0.83	0.25	0.07	0.22	31.3	21.3	30
ZZ57863		0.21	0.004	0.09	1.75	4.8	<0.2	<10	180	0.58	0.16	1.36	0.73	21.0	12.1	25
ZZ57864		0.20	0.001	0.09	1.84	12.7	<0.2	<10	80	0.63	0.27	0.06	0.23	29.1	12.2	27
ZZ57865		0.24	0.004	0.11	1.88	7.5	<0.2	<10	170	0.64	0.21	0.24	0.13	30.3	10.9	29
ZZ57866		0.22	0.002	0.05	1.91	10.2	<0.2	<10	150	0.60	0.24	0.35	0.26	27.6	13.7	29
ZZ57867		0.26	0.002	0.07	2.15	12.9	<0.2	<10	90	1.01	0.25	0.05	0.16	39.2	19.4	29
ZZ57868		0.21	0.003	0.11	1.90	10.9	<0.2	<10	210	0.89	0.22	0.90	0.18	30.0	17.3	27
ZZ57869		0.18	0.003	0.12	1.80	11.0	<0.2	<10	280	0.87	0.22	0.59	0.09	25.4	8.8	26



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57830		1.36	41.1	2.31	2.90	<0.05	0.04	0.29	0.035	0.13	5.8	6.8	0.18	647	5.24	0.02
ZZ57831		1.21	42.6	2.57	2.94	<0.05	0.04	0.27	0.030	0.10	5.3	6.9	0.16	805	6.99	0.02
ZZ57832		1.73	61.4	1.27	2.98	<0.05	0.07	0.42	0.033	0.10	6.0	8.2	0.17	72	6.72	0.02
ZZ57833		1.83	45.5	2.77	2.04	0.05	0.09	0.18	0.022	0.07	2.8	7.8	0.27	109	15.50	0.02
ZZ57834		3.04	52.3	2.46	4.01	0.06	0.06	0.38	0.036	0.11	12.8	14.1	0.30	403	3.01	0.02
ZZ57835		2.83	97.8	5.36	3.87	0.06	0.02	0.10	0.060	0.17	3.6	3.5	0.04	108	20.3	0.02
ZZ57836		2.57	16.8	1.23	3.65	<0.05	<0.02	0.08	0.018	0.09	5.1	1.5	0.04	31	8.73	0.02
ZZ57837		3.72	36.0	3.15	5.21	0.05	0.04	0.29	0.033	0.09	14.0	20.2	0.37	549	2.39	0.02
ZZ57838		2.32	22.7	3.58	6.73	<0.05	0.02	0.02	0.028	0.07	12.0	15.7	0.23	300	2.45	0.01
ZZ57839		3.90	16.8	1.33	5.57	<0.05	<0.02	0.01	0.013	0.07	13.5	3.2	0.10	68	1.70	0.01
ZZ57840		2.27	32.9	3.95	6.65	0.05	0.04	0.10	0.037	0.10	15.6	24.9	0.49	688	2.45	0.02
ZZ57841		1.38	81.1	4.67	6.12	0.06	0.06	0.13	0.045	0.12	11.5	33.6	0.74	804	0.99	0.01
ZZ57842		1.35	42.8	3.47	4.58	<0.05	0.05	0.11	0.035	0.13	7.9	24.9	0.56	552	0.88	0.01
ZZ57843		2.85	52.6	3.64	5.00	0.05	0.06	0.23	0.039	0.15	10.1	26.3	0.55	408	1.01	0.01
ZZ57844		5.15	44.3	2.35	3.61	<0.05	0.04	0.10	0.023	0.11	6.0	18.3	0.43	1080	0.83	0.02
ZZ57845		1.71	52.2	3.21	5.48	0.07	0.08	0.07	0.037	0.12	17.4	36.7	0.70	239	0.41	0.01
ZZ57846		1.43	67.7	4.32	5.93	0.05	0.10	0.13	0.040	0.15	15.1	41.6	0.89	568	0.56	0.01
ZZ57847		0.96	36.2	3.02	4.57	0.05	0.07	0.07	0.029	0.12	8.0	30.5	0.82	1150	0.56	0.02
ZZ57848		1.25	55.4	3.38	4.80	0.05	0.09	0.10	0.032	0.14	10.0	31.9	0.79	355	0.64	0.02
ZZ57849		1.58	67.1	3.94	5.17	0.05	0.10	0.12	0.031	0.16	12.1	36.4	0.92	700	0.77	0.02
ZZ57850		1.27	63.8	3.78	4.92	0.05	0.08	0.10	0.031	0.14	9.3	32.2	0.88	575	0.69	0.02
ZZ57851		1.29	48.9	3.75	4.95	<0.05	0.08	0.07	0.030	0.14	8.4	31.1	0.80	513	0.76	0.02
ZZ57852		2.29	44.5	4.00	5.32	0.05	0.09	0.15	0.035	0.12	10.7	30.3	0.71	464	0.51	0.01
ZZ57853		2.33	43.5	3.99	4.94	0.05	0.05	0.15	0.034	0.10	11.1	23.1	0.56	644	0.59	0.01
ZZ57854		1.44	54.7	3.79	6.24	0.06	0.05	0.08	0.032	0.09	18.3	33.1	0.75	355	1.14	0.01
ZZ57855		1.41	92.8	5.36	6.77	0.05	0.07	0.04	0.060	0.06	13.9	41.2	0.88	1020	0.73	0.01
ZZ57856		3.73	114.5	5.93	4.94	0.06	0.04	0.08	0.067	0.07	8.6	25.4	1.45	824	0.70	0.02
ZZ57857		3.32	67.0	3.44	5.15	<0.05	0.10	0.17	0.039	0.12	9.5	36.3	0.76	247	0.32	0.01
ZZ57858		2.45	65.8	3.51	4.87	0.05	0.09	0.18	0.039	0.12	9.1	37.8	0.79	461	0.43	0.01
ZZ57859		1.37	61.0	2.61	3.64	<0.05	0.04	0.13	0.028	0.06	6.3	20.5	0.58	744	0.59	0.01
ZZ57860		2.28	58.6	3.53	5.03	<0.05	0.07	0.15	0.039	0.11	8.7	38.1	0.83	263	0.49	0.01
ZZ57861		1.18	16.8	2.58	6.51	<0.05	<0.02	0.04	0.026	0.04	13.1	16.3	0.26	190	1.21	0.01
ZZ57862		1.28	76.9	4.64	5.91	0.05	0.04	0.05	0.046	0.05	13.4	40.5	0.92	760	0.64	0.01
ZZ57863		0.84	38.3	3.08	5.00	<0.05	0.06	0.08	0.032	0.05	9.5	25.8	0.87	602	0.40	0.01
ZZ57864		1.38	41.7	4.37	5.79	<0.05	0.06	0.03	0.039	0.05	13.2	41.5	0.62	244	0.94	0.01
ZZ57865		1.04	32.6	3.49	5.39	<0.05	0.05	0.06	0.029	0.06	14.6	37.8	0.79	225	0.49	0.01
ZZ57866		1.13	36.4	4.02	5.69	<0.05	0.05	0.03	0.037	0.06	11.8	45.4	0.76	530	0.79	0.01
ZZ57867		1.15	65.0	4.53	5.77	0.05	0.05	0.07	0.038	0.07	16.0	44.9	0.86	646	0.57	0.01
ZZ57868		0.93	68.4	4.08	5.54	0.05	0.06	0.10	0.038	0.07	13.9	39.9	0.82	709	0.58	0.01
ZZ57869		1.46	47.3	3.45	5.42	<0.05	0.03	0.08	0.036	0.05	11.6	21.6	0.47	412	0.87	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ57830		0.16	44.7	810	13.6	11.6	0.012	0.05	1.77	5.0	2.8	0.5	53.2	<0.01	0.10	2.8
ZZ57831		0.16	48.3	840	15.8	9.8	0.008	0.05	1.88	4.6	5.0	0.5	58.0	<0.01	0.10	2.0
ZZ57832		0.25	58.6	760	16.3	9.6	0.015	0.22	1.98	6.0	7.3	0.5	61.7	<0.01	0.09	2.3
ZZ57833		0.18	63.1	790	9.1	6.1	0.022	3.90	1.79	3.2	12.6	0.4	58.6	<0.01	0.07	1.1
ZZ57834		0.44	78.4	1280	15.4	18.1	0.021	0.17	1.93	4.6	8.0	0.6	67.5	<0.01	0.07	1.7
ZZ57835		0.15	86.3	1240	14.4	12.8	0.004	0.21	3.90	6.4	11.8	0.7	98.8	<0.01	0.17	0.9
ZZ57836		0.18	17.6	460	11.1	10.6	0.001	0.10	1.07	1.6	3.2	0.8	43.2	<0.01	0.11	0.7
ZZ57837		0.64	27.2	680	19.7	13.3	0.001	0.06	1.06	4.9	2.1	0.6	40.6	<0.01	0.08	1.6
ZZ57838		1.08	19.0	320	17.2	19.3	<0.001	0.01	0.90	2.8	0.7	0.8	9.6	<0.01	0.07	3.3
ZZ57839		0.60	9.5	260	10.8	15.7	<0.001	0.02	0.76	1.0	0.4	0.8	12.7	<0.01	0.06	0.4
ZZ57840		0.62	36.4	460	20.2	18.2	<0.001	0.02	0.93	5.7	0.8	0.8	23.9	<0.01	0.05	3.9
ZZ57841		0.24	40.0	360	18.0	11.2	<0.001	0.04	0.45	11.5	0.9	0.6	40.7	<0.01	0.09	2.8
ZZ57842		0.29	27.5	630	15.9	11.6	<0.001	0.08	0.39	5.6	0.8	0.5	66.0	<0.01	0.05	1.5
ZZ57843		0.32	29.6	620	16.9	15.8	<0.001	0.07	0.41	6.7	1.6	0.5	54.2	<0.01	0.09	1.6
ZZ57844		0.38	20.3	910	16.3	15.0	<0.001	0.16	0.52	2.6	1.4	0.4	94.7	<0.01	0.06	0.5
ZZ57845		0.54	33.7	690	19.4	12.1	<0.001	0.02	0.33	6.8	0.6	0.5	31.0	<0.01	0.05	5.6
ZZ57846		0.21	35.2	670	20.2	9.3	<0.001	0.05	0.39	8.1	1.0	0.4	38.8	<0.01	0.08	4.1
ZZ57847		0.23	22.9	750	13.2	13.1	0.001	0.14	0.32	4.0	1.5	0.4	218	<0.01	0.05	1.0
ZZ57848		0.24	28.9	740	14.7	10.1	<0.001	0.12	0.44	5.6	1.5	0.4	122.0	<0.01	0.08	1.7
ZZ57849		0.21	34.2	680	20.6	12.2	<0.001	0.08	0.46	6.7	1.0	0.4	120.0	<0.01	0.07	2.6
ZZ57850		0.20	29.4	610	16.0	10.7	<0.001	0.11	0.47	5.9	1.8	0.4	152.0	<0.01	0.07	1.8
ZZ57851		0.18	27.1	590	15.2	10.4	<0.001	0.10	0.40	5.4	1.6	0.4	84.5	<0.01	0.08	1.8
ZZ57852		0.23	27.2	550	19.9	15.7	<0.001	0.07	0.29	6.4	1.2	0.4	45.4	<0.01	0.05	2.3
ZZ57853		0.20	26.1	750	21.3	11.5	<0.001	0.05	0.28	6.5	1.1	0.4	29.4	<0.01	0.08	2.3
ZZ57854		0.72	33.8	720	14.2	11.0	<0.001	0.02	0.58	7.4	1.0	0.5	24.9	<0.01	0.09	4.2
ZZ57855		0.29	35.2	190	16.3	9.0	0.001	0.01	0.47	7.3	0.4	0.4	8.2	<0.01	0.12	4.3
ZZ57856		0.30	44.7	500	13.0	7.6	<0.001	0.03	0.46	18.1	1.9	0.5	34.6	<0.01	0.18	1.9
ZZ57857		0.32	29.7	710	13.1	14.4	0.003	0.18	0.31	9.3	3.3	0.4	72.8	<0.01	0.05	2.5
ZZ57858		0.29	26.5	830	15.7	13.0	0.003	0.15	0.35	7.0	2.8	0.4	111.0	<0.01	0.05	1.6
ZZ57859		0.33	20.4	1160	10.8	9.8	0.001	0.16	0.42	2.4	3.4	0.3	133.0	<0.01	0.04	0.5
ZZ57860		0.32	26.5	790	13.2	13.2	0.003	0.16	0.34	6.3	3.7	0.4	94.3	<0.01	0.04	1.3
ZZ57861		0.90	11.8	270	12.0	8.7	<0.001	0.01	0.35	2.6	0.4	0.7	11.1	<0.01	0.04	2.2
ZZ57862		0.32	33.9	380	16.3	7.3	<0.001	0.01	0.40	5.0	0.4	0.4	7.3	<0.01	0.08	3.9
ZZ57863		0.40	26.3	930	9.7	6.8	<0.001	0.09	0.24	4.3	1.0	0.3	51.6	<0.01	0.06	1.3
ZZ57864		0.58	27.0	430	14.8	9.6	<0.001	0.02	0.53	3.7	0.4	0.4	8.1	<0.01	0.06	3.9
ZZ57865		0.44	28.9	730	10.9	8.9	<0.001	0.03	0.28	4.4	0.6	0.4	18.6	<0.01	0.04	3.2
ZZ57866		0.41	27.3	350	13.8	8.6	<0.001	0.02	0.41	4.3	8.6	0.4	22.2	<0.01	0.06	3.2
ZZ57867		0.18	35.4	240	18.4	8.3	<0.001	0.01	0.46	5.2	0.5	0.3	7.5	<0.01	0.07	4.7
ZZ57868		0.31	31.7	550	16.5	7.9	<0.001	0.04	0.45	6.8	0.5	0.3	40.8	<0.01	0.08	2.9
ZZ57869		0.60	21.7	870	15.2	9.1	<0.001	0.05	0.37	4.5	0.6	0.5	29.0	<0.01	0.05	1.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57830		<0.005	0.26	2.11	80	0.05	12.30	260	1.6
ZZ57831		<0.005	0.24	2.97	89	0.06	14.55	271	1.6
ZZ57832		<0.005	0.38	4.04	77	0.06	18.75	237	3.0
ZZ57833		<0.005	0.53	9.75	53	0.17	10.25	235	4.0
ZZ57834		0.005	0.70	5.79	167	0.08	18.95	575	2.2
ZZ57835		<0.005	0.54	2.37	138	0.08	11.75	334	0.6
ZZ57836		0.005	0.42	0.91	72	0.13	4.80	91	<0.5
ZZ57837		0.011	0.34	2.78	66	0.16	13.40	89	1.1
ZZ57838		0.021	0.27	0.55	75	0.19	2.74	92	1.3
ZZ57839		0.025	0.19	0.69	57	0.19	4.68	53	<0.5
ZZ57840		0.010	0.29	1.23	78	0.16	10.15	131	1.3
ZZ57841		0.005	0.14	0.84	47	<0.05	13.30	85	2.3
ZZ57842		0.005	0.12	0.62	35	<0.05	8.83	98	2.0
ZZ57843		0.005	0.17	1.08	35	<0.05	12.70	85	2.1
ZZ57844		0.008	0.15	2.43	25	0.06	8.42	75	1.5
ZZ57845		0.023	0.13	0.70	40	0.09	11.50	101	3.2
ZZ57846		0.006	0.09	1.02	42	<0.05	12.50	90	3.4
ZZ57847		0.005	0.09	1.24	31	0.05	8.25	105	2.0
ZZ57848		0.006	0.10	2.42	34	0.05	10.40	101	2.6
ZZ57849		0.006	0.11	1.41	37	<0.05	10.40	101	2.9
ZZ57850		<0.005	0.10	2.03	36	<0.05	9.58	92	2.6
ZZ57851		<0.005	0.10	3.33	36	<0.05	6.72	97	2.7
ZZ57852		0.005	0.27	1.14	38	<0.05	10.75	117	2.3
ZZ57853		0.005	0.35	1.05	38	<0.05	12.05	98	1.5
ZZ57854		0.027	0.14	1.71	52	0.18	11.65	82	1.6
ZZ57855		0.006	0.10	0.51	62	0.05	5.74	72	3.0
ZZ57856		0.007	0.13	0.38	74	<0.05	21.2	98	1.1
ZZ57857		0.006	0.16	1.64	39	0.06	11.10	112	3.1
ZZ57858		0.006	0.10	1.31	39	0.05	10.90	98	2.6
ZZ57859		0.007	0.12	4.91	31	0.05	7.82	73	1.2
ZZ57860		0.007	0.15	1.36	40	0.06	9.88	121	2.0
ZZ57861		0.018	0.12	0.50	58	0.20	2.78	32	<0.5
ZZ57862		0.009	0.08	0.50	54	0.06	4.46	66	1.7
ZZ57863		0.010	0.07	1.50	46	0.06	7.95	60	1.6
ZZ57864		0.009	0.10	0.44	41	0.09	3.26	70	2.5
ZZ57865		0.010	0.09	0.86	43	0.11	7.86	71	1.3
ZZ57866		0.008	0.08	0.74	52	0.07	3.70	89	1.5
ZZ57867		<0.005	0.08	0.56	43	<0.05	5.42	72	2.1
ZZ57868		0.007	0.07	0.73	44	0.05	10.75	71	1.9
ZZ57869		0.013	0.10	1.66	49	0.13	9.65	44	0.8



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57870		0.20	0.001	0.03	1.52	9.2	<0.2	<10	230	0.50	0.25	0.18	0.18	25.0	5.6	21
ZZ52349		0.14	0.009	1.08	1.04	36.9	<0.2	10	650	0.91	0.18	1.58	1.30	14.00	8.6	17
ZZ52350		0.25	0.013	0.15	0.47	55.2	<0.2	<10	230	0.45	0.22	0.14	1.54	7.47	6.1	9
ZZ52351		0.21	0.006	0.07	2.94	17.5	<0.2	<10	190	1.61	0.26	0.06	0.49	35.3	25.1	37
ZZ52352		0.22	0.005	0.33	1.43	10.1	<0.2	10	510	0.76	0.19	2.23	0.87	20.8	12.9	24
ZZ52353		0.19	0.009	1.17	0.59	27.8	<0.2	10	930	0.34	0.08	3.41	1.51	6.95	3.8	20
ZZ52354		0.22	0.006	0.89	1.54	31.3	<0.2	<10	370	0.60	0.21	0.05	0.51	19.65	8.9	27
ZZ52355		0.28	0.001	0.17	0.72	35.1	<0.2	<10	390	0.39	0.22	0.04	0.98	10.90	6.0	17
ZZ52356		0.17	0.006	1.13	0.93	28.2	<0.2	10	2080	0.86	0.15	0.56	1.08	8.27	6.6	42
ZZ52357		0.23	0.004	0.22	1.17	14.2	<0.2	<10	2650	0.61	0.18	1.49	0.27	14.05	6.2	19
ZZ52358		0.21	0.004	0.73	1.16	20.4	<0.2	<10	1870	0.72	0.17	1.18	0.82	12.15	7.3	24
ZZ52359		0.27	0.004	0.49	0.57	9.6	<0.2	10	1240	0.44	0.14	0.59	0.57	6.11	1.9	20
ZZ52360		0.17	0.006	2.01	0.70	14.1	<0.2	10	2300	1.02	0.10	2.80	2.12	10.35	4.5	24
ZZ52361		0.28	0.005	1.48	0.64	25.3	<0.2	10	1260	0.62	0.15	0.39	0.55	4.98	3.4	25
ZZ52362		0.24	0.003	0.87	1.41	15.0	<0.2	<10	1590	0.83	0.21	1.11	0.65	19.35	8.9	25
ZZ52363		0.24	0.002	0.46	2.05	21.7	<0.2	<10	650	0.63	0.22	0.18	0.44	19.95	8.4	33
ZZ52364		0.27	<0.001	0.15	1.21	15.3	<0.2	<10	670	0.38	0.18	0.51	0.87	16.00	4.1	22
ZZ52365		0.16	0.002	0.49	1.24	18.2	<0.2	<10	1070	0.62	0.16	2.44	0.52	16.00	7.1	22
ZZ52366		0.19	0.005	0.30	0.55	13.3	<0.2	<10	1120	0.32	0.06	4.87	2.68	6.66	3.3	9
ZZ52367		0.24	0.003	0.66	1.29	26.7	<0.2	<10	1220	0.75	0.17	1.73	0.64	16.55	9.3	26
ZZ52368		0.13	0.004	0.37	0.79	12.1	<0.2	<10	1010	0.38	0.09	3.19	1.43	10.90	5.3	14
ZZ52369		0.24	0.001	0.16	2.30	31.3	<0.2	<10	690	1.39	0.27	0.92	0.71	35.6	9.9	39
ZZ52370		0.27	0.002	0.20	1.39	24.7	<0.2	<10	990	0.61	0.20	1.20	0.30	16.80	7.9	25
ZZ52371		0.14	0.004	0.65	1.12	44.4	<0.2	10	520	0.69	0.17	2.03	1.03	12.15	9.6	22
ZZ52372		0.24	0.004	0.78	0.83	49.2	<0.2	10	920	0.61	0.16	2.07	1.29	12.60	7.7	20
ZZ52373		0.14	0.002	0.83	0.46	46.6	<0.2	10	1280	0.50	0.13	1.19	0.56	3.32	2.7	20
ZZ52374		0.24	0.005	0.79	1.06	49.6	<0.2	10	780	1.01	0.18	3.47	1.44	18.65	7.1	22
ZZ52375		0.30	0.005	0.64	0.90	61.7	<0.2	10	720	0.75	0.15	5.37	1.22	16.40	6.5	17
ZZ52376		0.25	0.002	0.21	1.20	17.8	<0.2	<10	510	0.76	0.22	1.69	0.58	17.70	10.0	20
ZZ52377		0.30	0.008	0.22	1.21	18.9	<0.2	<10	530	0.83	0.22	1.43	0.72	17.00	10.3	21
ZZ52378		0.24	0.002	0.27	1.07	32.0	<0.2	<10	260	0.85	0.20	2.37	0.74	19.45	8.8	20
ZZ52379		0.29	0.002	0.24	0.98	51.3	<0.2	<10	540	0.77	0.21	2.93	0.87	16.20	12.9	18
ZZ52380		0.14	0.009	0.10	0.28	5.0	<0.2	10	780	0.15	0.04	5.16	1.36	2.85	2.6	3
ZZ52381		0.23	0.002	0.14	0.98	98.8	<0.2	<10	210	0.80	0.24	0.32	0.29	16.55	10.1	18
ZZ52382		0.18	0.001	0.18	0.80	87.3	<0.2	<10	370	0.78	0.21	1.66	0.57	15.15	12.0	15
ZZ52383		0.17	0.005	0.53	0.82	213	<0.2	<10	640	0.69	0.17	1.00	1.23	13.55	7.3	18
ZZ52384		0.23	0.004	0.47	0.83	306	<0.2	<10	610	0.65	0.17	1.03	1.29	14.25	8.7	18
ZZ52385		0.34	0.003	0.17	1.10	26.7	<0.2	<10	320	0.89	0.24	0.52	0.86	20.4	13.1	21
ZZ52386		0.23	0.002	0.30	1.52	23.2	<0.2	<10	780	1.04	0.22	1.13	1.32	18.55	8.6	26
ZZ52387		0.25	0.004	0.33	1.63	21.7	<0.2	<10	580	0.98	0.23	1.09	1.48	19.25	10.4	28





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57870		1.51	12.4	3.03	6.73	<0.05	<0.02	0.02	0.022	0.03	13.4	19.0	0.27	192	1.36	0.01
ZZ52349		7.99	60.6	2.62	3.08	0.05	0.09	0.42	0.033	0.14	8.8	10.6	0.34	261	5.03	0.01
ZZ52350		4.71	49.5	3.70	2.73	<0.05	<0.02	0.05	0.031	0.10	3.0	2.3	0.05	119	7.33	0.01
ZZ52351		2.60	78.4	5.59	7.08	<0.05	<0.05	0.05	0.060	0.11	11.3	51.8	0.78	1420	0.83	0.01
ZZ52352		0.90	51.3	2.77	4.23	<0.05	0.04	0.19	0.032	0.07	9.5	28.9	0.64	811	1.16	0.01
ZZ52353		0.67	22.9	1.17	1.62	<0.05	0.04	0.26	0.014	0.04	4.0	5.7	0.25	466	1.57	0.02
ZZ52354		3.36	37.8	3.14	4.84	<0.05	0.06	0.10	0.035	0.07	9.4	15.5	0.28	218	4.16	0.01
ZZ52355		4.40	43.5	3.05	3.24	<0.05	<0.02	0.05	0.027	0.10	4.7	4.2	0.09	154	7.49	0.01
ZZ52356		0.86	82.4	3.17	2.23	<0.05	<0.02	0.20	0.035	0.09	4.4	4.4	0.05	105	5.59	<0.01
ZZ52357		0.92	26.9	1.83	4.36	<0.05	0.03	0.08	0.027	0.06	7.1	7.5	0.16	168	2.71	0.01
ZZ52358		0.80	38.9	2.53	3.42	<0.05	0.05	0.20	0.032	0.06	5.7	11.1	0.25	288	3.10	<0.01
ZZ52359		0.61	30.1	1.63	1.67	<0.05	0.04	0.17	0.030	0.06	3.0	2.8	0.06	32	2.67	0.01
ZZ52360		0.70	74.1	2.25	1.45	0.06	0.06	0.43	0.025	0.05	6.6	4.6	0.32	201	2.21	<0.01
ZZ52361		0.73	49.9	2.21	1.78	0.05	0.05	0.26	0.033	0.08	2.9	2.5	0.04	62	4.55	0.01
ZZ52362		1.14	41.8	2.44	4.14	<0.05	0.04	0.21	0.035	0.08	10.0	10.6	0.27	432	1.97	0.01
ZZ52363		1.90	17.4	3.45	6.16	<0.05	0.03	0.08	0.036	0.06	9.7	19.8	0.30	278	2.51	0.01
ZZ52364		1.03	16.6	1.85	4.77	<0.05	<0.02	0.03	0.022	0.05	8.6	7.8	0.13	100	2.33	0.01
ZZ52365		0.85	27.3	2.16	3.76	<0.05	0.04	0.15	0.027	0.05	11.4	10.3	0.27	279	1.47	0.01
ZZ52366		0.30	20.9	0.87	1.45	<0.05	0.03	0.16	0.012	0.02	6.8	2.6	0.14	285	0.79	0.01
ZZ52367		0.67	40.9	2.60	3.59	<0.05	0.04	0.33	0.029	0.06	10.4	12.2	0.31	463	2.02	0.01
ZZ52368		0.63	25.1	1.39	2.38	<0.05	0.03	0.25	0.019	0.04	5.2	7.4	0.21	333	0.72	0.02
ZZ52369		0.96	24.5	3.35	6.71	0.06	0.06	0.08	0.046	0.07	21.3	13.5	0.35	569	2.48	0.01
ZZ52370		1.03	23.1	2.45	4.23	<0.05	0.03	0.32	0.027	0.06	8.3	12.9	0.32	293	2.24	0.01
ZZ52371		0.89	36.6	3.27	2.95	<0.05	0.07	0.58	0.024	0.09	6.2	10.7	0.34	2060	2.53	0.01
ZZ52372		0.77	41.9	2.59	2.47	<0.05	0.04	0.53	0.024	0.08	6.3	8.1	0.30	1120	3.19	0.01
ZZ52373		0.70	35.9	1.55	1.44	<0.05	0.04	0.37	0.023	0.06	2.1	2.3	0.06	59	2.62	0.01
ZZ52374		0.78	38.1	2.11	3.22	<0.05	0.04	1.57	0.031	0.08	9.3	11.2	1.56	223	1.87	0.01
ZZ52375		0.92	25.1	1.91	2.63	<0.05	0.03	1.09	0.024	0.07	9.1	8.8	2.63	289	1.51	0.02
ZZ52376		0.92	27.0	2.82	3.43	<0.05	0.05	0.31	0.027	0.10	8.4	14.9	0.39	464	1.33	0.02
ZZ52377		0.80	30.3	3.01	3.63	<0.05	0.05	0.28	0.032	0.10	8.5	15.4	0.37	468	1.45	0.01
ZZ52378		0.60	32.1	3.61	2.92	<0.05	0.06	0.40	0.035	0.06	11.3	13.1	1.11	604	1.64	0.01
ZZ52379		0.75	36.6	3.51	2.92	<0.05	0.04	0.47	0.033	0.08	8.5	13.1	1.28	803	1.73	0.02
ZZ52380		0.28	10.4	0.44	0.55	<0.05	0.04	0.14	0.006	0.02	1.4	0.9	0.22	699	0.64	0.02
ZZ52381		1.37	28.2	3.23	2.94	<0.05	0.03	0.30	0.031	0.08	8.8	12.8	0.28	392	1.78	0.01
ZZ52382		1.65	29.5	3.02	2.41	<0.05	0.05	3.98	0.029	0.09	7.1	12.2	0.85	702	1.86	0.01
ZZ52383		1.17	31.2	2.59	2.43	<0.05	0.04	0.29	0.026	0.08	6.8	10.1	0.26	207	3.56	0.01
ZZ52384		1.95	29.0	2.53	2.49	<0.05	0.04	0.24	0.027	0.08	7.0	11.8	0.39	255	2.54	0.01
ZZ52385		0.97	35.1	3.53	3.49	<0.05	0.06	0.43	0.032	0.09	10.1	17.2	0.36	510	2.56	0.01
ZZ52386		0.96	36.0	2.73	4.35	<0.05	0.06	0.22	0.034	0.10	8.7	20.6	0.44	168	2.74	0.02
ZZ52387		0.84	35.1	3.04	4.57	<0.05	0.07	0.27	0.037	0.12	10.0	20.5	0.47	384	2.30	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- AreaD- RacklaCtral

**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ57870	1.18	12.5	250	15.7	6.6	<0.001	0.02	0.39	2.3	<0.2	0.7	14.7	<0.01	0.04	2.2	
ZZ52349	0.33	46.8	590	15.1	15.5	0.001	0.10	2.61	5.2	2.9	0.5	70.5	<0.01	0.06	2.4	
ZZ52350	0.25	39.3	520	19.9	18.9	<0.001	0.03	3.65	1.9	2.0	0.4	17.6	<0.01	0.08	1.5	
ZZ52351	0.24	44.7	300	20.9	13.5	<0.001	0.02	0.45	6.9	0.6	0.5	10.3	<0.01	0.10	4.5	
ZZ52352	0.48	27.3	900	13.9	6.8	0.008	0.13	0.81	4.4	4.4	0.4	79.4	<0.01	0.05	0.9	
ZZ52353	0.28	27.0	990	5.9	5.2	0.010	0.21	2.04	1.3	7.1	0.2	123.0	<0.01	0.03	0.3	
ZZ52354	0.82	36.4	460	16.4	17.9	<0.001	0.02	1.82	3.5	1.4	0.7	15.8	<0.01	0.05	4.5	
ZZ52355	0.30	39.3	920	15.8	15.7	0.001	0.03	2.82	2.0	2.6	0.5	19.6	<0.01	0.09	0.7	
ZZ52356	0.14	101.0	1970	10.3	8.5	0.002	0.05	1.42	5.0	4.1	0.5	173.0	<0.01	0.08	1.0	
ZZ52357	0.52	23.1	550	12.6	8.6	<0.001	0.05	1.06	2.7	1.4	0.6	83.4	<0.01	0.05	1.1	
ZZ52358	0.40	40.8	850	12.7	7.9	0.007	0.07	0.97	3.9	4.3	0.5	89.4	<0.01	0.07	1.1	
ZZ52359	0.26	30.3	710	9.1	7.5	0.004	0.05	0.75	3.9	3.0	0.4	57.4	<0.01	0.07	1.2	
ZZ52360	0.24	74.1	1230	9.3	6.2	0.021	0.18	1.62	5.0	8.8	0.3	159.0	<0.01	0.07	0.5	
ZZ52361	0.15	62.4	670	11.9	7.7	0.005	0.05	1.26	5.9	6.7	0.4	61.7	<0.01	0.10	1.4	
ZZ52362	0.54	37.2	950	14.6	10.5	0.003	0.05	0.93	4.8	2.5	0.5	54.6	<0.01	0.07	1.6	
ZZ52363	0.99	29.6	310	17.3	12.6	<0.001	0.02	1.00	3.4	1.0	0.7	14.8	<0.01	0.06	2.9	
ZZ52364	0.52	17.8	290	11.5	9.7	<0.001	0.02	0.68	2.3	0.8	0.6	17.8	<0.01	0.06	1.4	
ZZ52365	0.72	27.2	800	11.5	7.8	<0.001	0.07	0.75	2.6	1.6	0.4	44.0	<0.01	0.05	0.6	
ZZ52366	0.34	17.6	1060	6.9	2.2	0.001	0.17	1.02	0.7	2.9	0.2	60.2	<0.01	0.01	<0.2	
ZZ52367	0.46	39.0	650	17.6	6.4	0.001	0.05	0.90	3.6	2.0	0.4	38.3	<0.01	0.07	0.8	
ZZ52368	0.43	20.4	850	8.8	5.9	0.004	0.14	1.09	1.5	3.8	0.3	53.7	<0.01	0.03	0.4	
ZZ52369	0.53	33.5	370	22.4	8.2	<0.001	0.03	0.94	8.8	1.6	0.8	20.4	<0.01	0.11	3.2	
ZZ52370	0.66	24.7	540	14.5	7.8	0.001	0.04	0.87	3.3	1.0	0.5	41.7	<0.01	0.06	1.4	
ZZ52371	0.36	37.6	890	14.6	9.3	0.006	0.16	1.11	3.9	2.7	0.4	101.0	<0.01	0.06	0.9	
ZZ52372	0.37	36.6	940	15.3	7.2	0.009	0.15	1.60	3.4	4.5	0.3	93.3	<0.01	0.06	1.0	
ZZ52373	0.11	49.1	690	11.1	5.8	0.009	0.09	0.82	3.4	4.0	0.3	115.0	<0.01	0.07	0.7	
ZZ52374	0.37	33.3	900	40.7	7.6	0.002	0.07	1.52	4.5	1.9	0.4	50.0	<0.01	0.06	1.1	
ZZ52375	0.50	25.7	830	36.0	6.6	<0.001	0.06	1.40	2.7	1.7	0.3	56.8	<0.01	0.04	0.7	
ZZ52376	0.59	27.3	770	15.9	8.7	0.002	0.07	0.73	3.6	1.7	0.4	39.0	<0.01	0.03	1.9	
ZZ52377	0.62	29.4	720	16.5	8.1	0.002	0.06	0.74	4.3	1.3	0.4	36.6	<0.01	0.04	2.2	
ZZ52378	0.69	27.7	740	23.4	6.2	<0.001	0.04	0.80	6.2	1.3	0.3	33.8	<0.01	0.03	2.9	
ZZ52379	0.49	32.5	780	22.3	6.8	0.001	0.05	0.76	5.0	1.2	0.4	40.0	<0.01	0.04	2.2	
ZZ52380	0.20	6.9	880	1.8	1.3	0.001	0.20	0.40	0.4	0.8	<0.2	110.5	<0.01	<0.01	<0.2	
ZZ52381	0.34	25.4	620	18.0	7.7	<0.001	0.02	0.79	4.1	1.1	0.3	23.6	<0.01	0.03	2.7	
ZZ52382	0.32	30.9	810	23.2	8.1	0.002	0.06	0.97	4.1	1.4	0.3	41.6	<0.01	0.03	2.3	
ZZ52383	0.32	31.7	1020	17.3	7.6	0.007	0.11	1.18	3.2	2.9	0.4	49.8	<0.01	0.06	1.4	
ZZ52384	0.35	36.9	970	15.7	8.8	0.006	0.10	1.13	3.5	3.4	0.3	50.5	<0.01	0.05	2.1	
ZZ52385	0.62	35.7	710	19.7	7.4	0.001	0.02	0.99	5.2	1.4	0.4	25.1	<0.01	0.04	4.0	
ZZ52386	0.48	37.0	710	18.0	9.7	0.006	0.08	0.99	5.2	2.4	0.5	35.1	<0.01	0.04	2.5	
ZZ52387	0.51	36.3	790	18.8	10.2	0.004	0.06	0.99	5.6	2.1	0.5	34.8	<0.01	0.05	3.3	

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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57870		0.026	0.13	0.43	69	0.22	3.17	46	<0.5
ZZ52349		<0.005	0.72	1.76	69	0.08	17.85	178	3.2
ZZ52350		<0.005	0.40	0.59	56	0.05	3.74	189	<0.5
ZZ52351		<0.005	0.14	0.49	56	<0.05	4.60	76	3.2
ZZ52352		0.010	0.10	5.17	39	0.07	10.15	61	1.5
ZZ52353		0.006	0.11	9.09	43	0.07	7.16	82	1.5
ZZ52354		0.017	0.36	0.98	79	0.14	3.67	162	2.8
ZZ52355		0.006	0.48	0.83	115	0.09	4.32	249	<0.5
ZZ52356		<0.005	0.13	2.82	88	<0.05	30.7	287	0.5
ZZ52357		0.008	0.15	2.40	83	0.13	5.56	93	0.8
ZZ52358		0.005	0.12	2.41	70	0.07	12.30	107	1.6
ZZ52359		<0.005	0.09	1.25	44	0.06	9.82	91	1.8
ZZ52360		<0.005	0.17	9.51	73	<0.05	50.0	126	3.7
ZZ52361		<0.005	0.09	1.82	59	<0.05	20.9	167	2.8
ZZ52362		0.008	0.18	4.22	63	0.10	15.25	106	1.2
ZZ52363		0.016	0.25	0.78	98	0.18	4.77	121	1.2
ZZ52364		0.008	0.19	0.77	80	0.12	5.49	88	<0.5
ZZ52365		0.014	0.11	1.68	55	0.09	16.50	93	1.1
ZZ52366		0.009	0.04	3.81	22	0.05	11.50	46	1.2
ZZ52367		0.008	0.12	1.39	58	0.10	18.15	105	1.2
ZZ52368		0.008	0.11	4.06	41	0.06	7.52	69	1.3
ZZ52369		0.005	0.25	0.71	120	0.12	25.3	136	1.5
ZZ52370		0.012	0.16	1.35	71	0.13	6.57	99	1.0
ZZ52371		0.008	0.34	3.67	56	0.08	12.40	156	1.6
ZZ52372		0.007	0.20	2.85	62	0.07	12.50	196	1.3
ZZ52373		<0.005	0.10	6.04	45	<0.05	13.75	162	1.6
ZZ52374		0.006	0.29	2.39	62	0.08	17.40	211	1.4
ZZ52375		0.012	0.30	1.65	46	0.13	12.15	203	0.9
ZZ52376		0.009	0.14	1.76	39	0.09	8.97	121	1.6
ZZ52377		0.008	0.13	1.93	40	0.10	9.89	138	1.6
ZZ52378		0.008	0.17	1.30	48	0.07	17.60	153	1.6
ZZ52379		0.007	0.33	1.01	46	0.07	12.00	156	1.2
ZZ52380		0.006	0.04	1.63	5	<0.05	2.03	69	1.3
ZZ52381		0.006	0.17	1.14	38	0.06	8.47	165	0.8
ZZ52382		0.005	0.19	1.11	34	0.05	10.15	194	1.5
ZZ52383		0.005	0.29	1.79	56	0.09	12.05	174	1.3
ZZ52384		0.006	0.42	1.45	55	0.15	11.75	211	1.4
ZZ52385		0.011	0.16	1.00	49	0.07	11.70	155	2.2
ZZ52386		0.005	0.18	2.24	70	0.06	12.10	171	2.0
ZZ52387		0.005	0.19	2.25	83	0.06	13.60	194	2.3



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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52388		0.28	0.002	0.35	1.34	31.8	<0.2	<10	500	0.98	0.22	2.30	2.33	18.20	12.6	25
ZZ52389		0.18	<0.001	0.20	0.86	7.4	<0.2	10	710	0.61	0.12	3.75	2.78	9.05	3.7	14
ZZ52390		0.18	0.010	0.44	0.97	19.8	<0.2	10	420	0.73	0.15	3.36	2.70	11.00	6.0	18

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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
ZZ52388		0.91	36.1	3.56	4.03	<0.05	0.06	0.41	0.035	0.10	9.0	17.1	1.06	398	5.34	0.02
ZZ52389		0.54	34.3	1.54	2.49	<0.05	0.04	0.20	0.020	0.05	5.0	7.2	0.26	80	1.01	0.02
ZZ52390		0.71	48.1	2.30	2.75	<0.05	0.04	0.27	0.025	0.08	6.0	9.4	0.28	286	6.06	0.01

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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ52388		0.46	42.8	870	19.1	8.9	0.005	0.08	1.59	5.6	3.1	0.5	40.8	<0.01	0.05	3.2
ZZ52389		0.34	25.9	740	9.3	5.9	0.007	0.19	1.89	2.2	7.7	0.3	89.6	<0.01	0.03	0.5
ZZ52390		0.36	47.8	930	10.7	7.2	0.020	0.17	2.91	2.5	5.9	0.3	78.3	<0.01	0.05	0.5

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**CERTIFICATE OF ANALYSIS WH12197610**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 TI ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52388		0.005	0.23	1.59	101	0.08	14.50	218	2.3
ZZ52389		<0.005	0.15	4.99	67	<0.05	9.57	80	1.5
ZZ52390		<0.005	0.26	4.33	100	0.06	12.05	213	1.5

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**CERTIFICATE OF ANALYSIS WH12197610**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12200332**

Project: ATACRegional- AreaB- RacklaCntrl  
 P.O. No.: Soil 35  
 This report is for 151 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 16- SEP- 2012  
 Account: RCM

Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39919		0.22	0.003	0.31	1.36	54.8	<0.2	<10	560	1.07	0.27	1.02	1.79	24.0	12.6	24
ZZ39921		0.24	0.002	0.28	1.46	25.1	<0.2	<10	310	0.79	0.24	1.17	0.81	32.3	11.1	27
ZZ39922		0.28	0.004	0.32	1.46	47.9	<0.2	<10	290	0.91	0.30	0.73	3.45	22.0	16.7	28
ZZ39923		0.24	0.005	3.23	0.84	17.8	<0.2	<10	220	0.94	0.17	2.70	22.6	17.25	7.7	80
ZZ39924		0.19	0.004	1.52	0.73	20.1	<0.2	<10	240	0.72	0.15	4.00	7.15	24.6	9.8	48
ZZ39925		0.19	<0.001	0.11	0.79	11.7	<0.2	<10	380	0.82	0.14	2.45	0.42	36.3	11.1	23
ZZ39926		0.21	0.001	0.07	0.75	11.6	<0.2	<10	410	1.00	0.16	2.69	0.16	42.5	12.7	21
ZZ39927		0.27	0.004	0.28	1.37	25.9	<0.2	<10	190	0.73	0.21	3.94	0.33	20.9	12.6	21
ZZ39928		0.31	0.001	0.08	1.70	19.2	<0.2	<10	220	0.80	0.31	0.32	0.34	23.6	14.4	27
ZZ39929		0.24	0.006	1.37	0.62	27.8	<0.2	<10	280	0.97	0.15	4.52	6.17	14.00	8.4	13
ZZ39930		0.12	0.004	0.29	1.03	6.4	<0.2	<10	230	1.00	0.17	2.58	2.04	20.1	7.6	15
ZZ39931		0.14	0.002	0.08	0.75	7.3	<0.2	10	130	1.43	0.17	2.01	0.30	25.2	13.6	13
ZZ39932		0.21	0.002	0.05	1.62	14.6	<0.2	<10	150	0.88	0.27	0.76	0.21	16.95	14.4	25
ZZ39933		0.25	0.002	0.07	1.41	13.9	<0.2	<10	210	2.07	0.34	0.28	0.15	25.5	25.3	21
ZZ39934		0.18	0.002	0.11	1.19	8.2	<0.2	<10	250	1.32	0.23	1.72	0.21	18.80	12.2	20
ZZ39935		0.31	0.004	0.11	1.90	22.1	<0.2	<10	160	1.26	0.31	0.47	0.25	29.1	20.4	31
ZZ39936		0.23	0.004	0.13	1.45	13.3	<0.2	<10	210	0.95	0.25	1.42	0.25	20.9	14.5	25
ZZ39937		0.28	0.003	0.08	1.29	17.1	<0.2	<10	210	0.89	0.30	0.72	0.23	19.45	14.4	25
ZZ39938		0.30	0.002	0.04	1.33	10.7	<0.2	<10	100	1.70	0.49	0.17	0.07	25.4	28.3	24
ZZ39939		0.26	0.002	0.10	1.73	13.9	<0.2	<10	180	1.05	0.32	0.55	0.13	21.9	15.0	29
ZZ39940		0.28	0.003	0.08	2.11	31.8	<0.2	<10	130	1.08	0.29	3.62	0.22	30.2	24.2	30
ZZ39941		0.24	0.011	0.10	2.01	48.1	<0.2	<10	180	1.03	0.27	1.28	0.22	27.8	18.7	29
ZZ39942		0.30	0.004	0.09	2.17	145.0	<0.2	<10	160	1.07	0.30	0.77	0.25	31.3	23.9	32
ZZ39943		0.27	0.006	0.11	2.02	57.4	<0.2	<10	140	1.07	0.28	0.84	0.22	28.5	23.3	31
ZZ39944		0.24	0.002	0.06	2.90	29.9	<0.2	<10	170	1.21	0.26	0.05	0.42	27.1	28.0	41
ZZ39945		0.18	0.002	0.03	1.99	13.7	<0.2	<10	230	0.84	0.27	0.14	0.42	32.0	16.5	30
ZZ39946		0.23	0.005	0.16	1.93	12.8	<0.2	<10	260	1.09	0.24	0.98	0.18	23.5	13.8	33
ZZ39947		0.28	0.005	0.17	1.80	13.0	<0.2	<10	230	1.01	0.25	1.01	0.37	21.4	17.5	29
ZZ39948		0.22	0.003	0.04	1.80	12.0	<0.2	<10	130	0.74	0.25	0.31	0.19	25.4	15.6	27
ZZ39949		0.19	0.010	0.20	2.64	8.6	<0.2	<10	220	1.07	0.24	1.25	0.57	26.2	34.6	43
ZZ39950		0.32	0.004	0.15	2.42	14.7	<0.2	<10	160	1.29	0.27	0.08	0.24	41.4	28.8	36
ZZ39951		0.18	0.004	0.17	1.76	8.9	<0.2	<10	160	0.79	0.21	1.35	0.21	20.8	16.0	28
ZZ39952		0.23	0.003	0.06	2.30	14.4	<0.2	<10	290	1.19	0.29	0.16	0.28	44.7	16.6	36
ZZ39953		0.30	0.004	0.07	2.48	14.4	<0.2	<10	230	1.27	0.28	0.12	0.12	43.9	21.4	37
ZZ39954		0.22	0.005	0.09	1.88	12.5	<0.2	<10	130	0.90	0.25	0.29	0.17	35.9	20.0	30
ZZ39955		0.22	0.008	0.17	2.12	10.9	<0.2	<10	290	1.05	0.25	0.90	0.16	25.0	16.7	33
ZZ39956		0.21	0.003	0.11	1.81	13.7	<0.2	<10	180	0.87	0.24	0.62	0.28	29.4	18.0	31
ZZ39957		0.35	0.005	0.11	2.04	120.5	<0.2	<10	130	0.78	0.21	0.84	0.52	27.9	23.5	36
ZZ39958		0.41	0.004	0.11	1.71	29.7	<0.2	<10	100	0.72	0.24	2.65	0.25	28.8	19.7	26
ZZ39959		0.26	0.003	0.11	2.00	24.7	<0.2	<10	250	0.94	0.27	0.58	0.21	33.8	15.7	33

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39919		1.93	39.9	3.97	3.99	0.05	0.04	0.26	0.038	0.09	8.6	19.8	0.42	931	3.84	0.01
ZZ39921		1.31	20.6	3.37	4.32	0.06	0.04	0.11	0.033	0.07	12.6	15.5	0.48	697	2.10	0.01
ZZ39922		1.39	57.8	4.18	5.08	0.12	0.08	0.27	0.041	0.10	10.2	20.3	0.52	726	3.59	0.01
ZZ39923		0.94	106.5	1.76	3.38	0.12	0.08	0.43	0.028	0.08	13.7	9.3	0.30	263	4.45	0.01
ZZ39924		0.85	63.5	2.62	3.17	0.12	0.07	0.26	0.036	0.10	14.1	8.0	0.82	294	7.85	0.01
ZZ39925		0.57	20.9	3.24	2.79	0.12	0.06	0.07	0.051	0.08	15.8	6.2	0.20	750	1.96	0.01
ZZ39926		0.65	21.2	3.48	2.60	0.14	0.07	0.06	0.058	0.11	19.1	5.5	0.25	500	1.09	0.01
ZZ39927		0.77	42.3	3.10	4.32	0.10	0.07	0.16	0.034	0.07	10.4	14.7	2.10	471	1.97	0.01
ZZ39928		1.43	28.8	3.96	6.35	0.11	0.06	0.04	0.040	0.08	10.9	16.9	0.39	538	2.99	0.01
ZZ39929		2.68	87.0	1.72	2.28	0.05	0.06	0.16	0.023	0.15	7.2	5.0	1.63	164	8.37	0.01
ZZ39930		0.51	47.7	1.78	3.15	0.05	0.08	0.09	0.028	0.14	8.6	11.3	0.28	78	1.04	0.01
ZZ39931		0.95	19.4	2.91	2.30	0.07	0.05	0.05	0.043	0.16	10.2	7.5	0.19	380	1.94	0.01
ZZ39932		1.54	30.2	4.11	6.29	<0.05	0.05	0.04	0.039	0.07	6.5	24.1	0.36	512	1.04	0.01
ZZ39933		6.58	32.5	3.17	4.40	0.07	0.06	0.06	0.028	0.11	8.7	22.8	0.38	1920	0.84	0.01
ZZ39934		1.38	36.4	2.93	3.52	0.05	0.06	0.08	0.036	0.13	8.0	15.1	0.33	816	0.84	0.01
ZZ39935		2.02	87.6	5.03	6.18	0.09	0.11	0.19	0.046	0.14	12.1	39.3	0.85	701	1.06	0.01
ZZ39936		1.12	53.1	3.54	4.33	0.05	0.06	0.14	0.029	0.10	8.3	22.1	0.53	752	0.87	0.01
ZZ39937		1.11	60.2	4.21	5.13	<0.05	0.06	0.10	0.034	0.09	8.8	22.4	0.48	435	0.99	0.01
ZZ39938		1.09	60.6	4.62	5.62	0.09	0.04	0.05	0.033	0.09	8.8	27.5	0.48	950	0.37	<0.01
ZZ39939		1.52	51.8	3.97	6.01	0.05	0.09	0.08	0.036	0.12	10.0	35.9	0.67	480	0.65	0.01
ZZ39940		2.00	80.1	4.69	6.62	0.07	0.24	0.13	0.035	0.19	13.4	49.4	1.24	771	0.68	0.01
ZZ39941		1.24	75.9	4.21	6.06	0.07	0.16	0.11	0.033	0.16	13.0	47.1	0.87	728	0.60	0.01
ZZ39942		1.60	88.2	4.71	6.81	0.07	0.15	0.25	0.036	0.16	14.0	50.9	1.01	751	0.65	0.01
ZZ39943		1.78	88.9	4.54	6.31	0.09	0.14	0.15	0.035	0.16	13.0	46.0	0.97	859	0.64	0.01
ZZ39944		1.46	82.3	5.01	6.66	0.06	0.10	0.05	0.055	0.06	9.1	38.5	0.86	810	0.97	0.01
ZZ39945		1.47	29.8	3.78	7.20	0.06	0.03	0.04	0.037	0.05	13.3	30.0	0.39	431	1.35	0.01
ZZ39946		1.72	94.0	4.00	5.93	0.07	0.07	0.17	0.039	0.08	12.9	31.8	0.81	493	0.96	0.01
ZZ39947		1.47	92.7	4.04	5.88	0.05	0.08	0.10	0.034	0.07	9.9	34.7	0.83	695	1.33	0.01
ZZ39948		1.17	56.8	4.56	6.22	0.05	0.05	0.04	0.035	0.06	10.0	35.4	0.69	540	0.71	0.01
ZZ39949		3.16	204	5.32	8.97	0.08	0.06	0.18	0.056	0.08	10.3	42.1	1.58	1160	1.11	0.01
ZZ39950		1.16	137.5	5.64	7.14	0.08	0.06	0.07	0.046	0.06	14.4	43.5	1.13	1420	0.79	0.01
ZZ39951		1.13	105.0	3.72	5.84	0.06	0.05	0.15	0.036	0.06	10.0	34.0	0.96	518	0.57	0.01
ZZ39952		1.48	37.4	3.81	7.07	0.06	0.04	0.03	0.043	0.06	15.8	22.5	0.54	745	1.30	0.01
ZZ39953		1.63	74.9	4.82	7.05	0.08	0.07	0.04	0.045	0.08	17.3	41.2	0.96	856	0.73	0.01
ZZ39954		1.48	88.3	4.38	6.36	0.06	0.07	0.08	0.030	0.06	16.1	43.2	0.95	399	0.69	0.01
ZZ39955		2.22	100.5	4.06	6.48	0.06	0.07	0.12	0.039	0.07	12.8	31.9	0.91	633	0.75	0.01
ZZ39956		1.26	59.2	4.02	6.10	0.05	0.05	0.06	0.032	0.06	11.6	35.0	0.75	862	1.15	0.01
ZZ39957		1.72	85.4	6.29	7.32	0.09	0.08	0.14	0.040	0.07	11.2	41.1	1.36	349	0.76	0.01
ZZ39958		1.45	70.7	4.12	5.65	0.08	0.09	0.10	0.029	0.08	12.4	42.6	1.15	649	0.53	0.01
ZZ39959		1.11	51.3	3.19	6.19	0.07	0.10	0.13	0.036	0.07	15.6	51.4	1.01	150	0.21	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39919	0.41	34.9	690	27.0	10.3	0.001	0.05	1.60	5.1	1.9	0.5	39.6	<0.01	0.05	1.7	
ZZ39921	0.73	28.8	890	15.9	9.9	0.001	0.06	1.11	3.8	1.3	0.5	37.1	<0.01	0.03	1.4	
ZZ39922	0.36	57.3	430	22.8	9.6	0.001	0.03	1.49	7.8	1.4	0.6	28.5	0.01	0.06	3.1	
ZZ39923	0.31	162.5	870	11.8	8.6	0.007	0.10	4.99	5.3	4.6	0.5	62.5	0.01	0.10	1.0	
ZZ39924	0.33	95.6	1030	10.2	6.8	0.002	0.06	4.95	5.5	3.6	0.6	89.7	0.01	0.07	2.1	
ZZ39925	0.48	30.6	900	9.8	6.1	0.001	0.08	0.40	4.6	1.2	0.7	51.4	0.01	0.04	1.7	
ZZ39926	0.48	26.4	850	10.3	6.5	0.001	0.06	0.29	5.6	1.1	0.9	56.9	0.01	0.03	2.9	
ZZ39927	0.52	33.4	870	18.5	7.6	0.001	0.04	1.08	4.7	1.1	0.5	45.5	0.01	0.06	1.3	
ZZ39928	0.74	28.2	250	21.1	14.0	<0.001	0.01	0.98	5.0	0.7	0.7	15.8	<0.01	0.07	4.0	
ZZ39929	0.26	56.7	2130	15.7	11.2	0.002	0.07	4.77	3.9	3.6	0.5	47.9	<0.01	0.10	1.3	
ZZ39930	0.39	28.0	1310	13.6	8.2	0.002	0.12	1.63	4.8	2.5	0.4	85.0	<0.01	0.05	2.0	
ZZ39931	0.39	30.6	670	14.7	11.1	0.001	0.08	0.45	5.4	0.9	0.5	73.6	<0.01	0.01	2.2	
ZZ39932	0.62	25.3	350	17.7	13.4	<0.001	0.03	0.47	4.0	0.3	0.6	37.8	<0.01	0.06	1.9	
ZZ39933	0.41	25.8	580	40.1	15.5	<0.001	0.04	0.48	5.4	0.6	0.5	12.7	<0.01	0.04	3.5	
ZZ39934	0.35	27.4	720	16.3	11.7	<0.001	0.08	0.34	5.0	0.9	0.5	67.6	<0.01	0.02	1.2	
ZZ39935	0.16	45.6	690	22.0	8.9	<0.001	0.02	0.65	10.0	1.0	0.5	33.1	<0.01	0.10	4.7	
ZZ39936	0.24	27.5	740	19.8	8.8	<0.001	0.06	0.42	5.7	0.9	0.4	55.0	<0.01	0.05	1.4	
ZZ39937	0.31	28.6	410	18.4	8.8	<0.001	0.03	0.52	6.4	0.6	0.5	35.8	<0.01	0.05	2.5	
ZZ39938	0.13	33.5	680	31.9	8.6	<0.001	<0.01	0.30	8.6	1.0	0.7	15.9	<0.01	0.03	5.5	
ZZ39939	0.26	32.3	570	20.4	12.4	<0.001	0.03	0.41	6.9	0.8	0.5	38.8	<0.01	0.06	3.6	
ZZ39940	<0.05	43.4	630	19.1	9.4	<0.001	0.02	0.54	8.7	0.7	0.3	145.5	<0.01	0.10	5.8	
ZZ39941	0.13	38.3	680	17.3	8.9	<0.001	0.04	0.49	7.3	1.3	0.3	72.2	<0.01	0.08	3.6	
ZZ39942	0.17	44.7	590	20.7	9.1	<0.001	0.02	0.53	9.9	0.8	0.4	48.2	<0.01	0.08	4.9	
ZZ39943	0.17	42.7	630	18.8	9.5	<0.001	0.03	0.53	9.6	0.8	0.4	49.5	<0.01	0.08	3.8	
ZZ39944	0.42	46.2	310	17.9	9.9	<0.001	0.01	0.53	7.9	0.9	0.5	7.2	<0.01	0.12	3.7	
ZZ39945	0.99	25.0	430	15.4	12.2	<0.001	0.01	0.56	4.5	0.3	0.7	14.3	<0.01	0.07	3.3	
ZZ39946	0.55	34.2	650	12.6	10.4	<0.001	0.05	0.58	10.4	1.5	0.5	42.1	<0.01	0.08	1.9	
ZZ39947	0.35	34.0	670	14.6	7.5	<0.001	0.05	0.53	8.7	1.9	0.4	38.6	<0.01	0.09	1.7	
ZZ39948	0.24	27.2	380	14.9	8.2	<0.001	0.01	0.42	5.6	0.6	0.4	16.1	<0.01	0.07	3.1	
ZZ39949	0.37	46.5	930	13.5	8.1	0.004	0.11	0.41	19.9	5.1	0.6	47.6	<0.01	0.16	1.5	
ZZ39950	0.11	44.3	390	20.5	6.4	<0.001	0.01	0.52	10.3	1.2	0.3	9.0	<0.01	0.08	4.6	
ZZ39951	0.27	32.1	670	12.4	6.8	<0.001	0.08	0.46	8.7	1.3	0.4	48.6	<0.01	0.10	1.1	
ZZ39952	1.22	37.9	370	17.2	11.2	<0.001	0.02	0.70	5.9	0.7	0.7	16.6	<0.01	0.04	4.1	
ZZ39953	0.28	40.5	330	17.5	10.7	<0.001	0.01	0.50	10.9	0.9	0.4	11.8	<0.01	0.09	4.6	
ZZ39954	0.30	38.3	440	14.9	6.5	<0.001	0.01	0.58	10.4	1.0	0.4	19.4	<0.01	0.10	4.3	
ZZ39955	0.47	34.3	700	14.3	9.4	<0.001	0.04	0.49	10.3	1.4	0.4	41.4	<0.01	0.07	2.2	
ZZ39956	0.64	31.5	530	14.5	8.9	<0.001	0.03	0.53	6.1	1.9	0.5	36.0	<0.01	0.08	2.2	
ZZ39957	0.19	39.6	770	15.0	7.0	0.009	0.13	0.30	11.8	6.2	0.4	59.8	<0.01	0.18	2.9	
ZZ39958	0.16	35.9	690	14.1	6.6	<0.001	0.02	0.46	8.2	0.7	0.3	108.5	<0.01	0.09	4.1	
ZZ39959	0.20	32.2	580	19.0	8.1	<0.001	0.09	0.21	10.0	1.3	0.4	42.8	<0.01	0.03	4.0	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39919		0.010	0.37	2.20	67	0.13	10.10	190	1.4
ZZ39921		0.024	0.22	2.13	56	0.24	8.93	120	1.1
ZZ39922		0.006	0.30	1.31	149	0.16	13.95	334	1.9
ZZ39923		0.006	0.68	3.90	659	0.28	29.3	980	2.1
ZZ39924		<0.005	0.41	2.85	294	0.14	23.3	524	1.7
ZZ39925		0.005	0.11	0.93	25	0.07	13.65	110	1.2
ZZ39926		<0.005	0.08	0.63	19	0.07	16.75	73	1.2
ZZ39927		0.010	0.11	1.14	54	0.17	14.40	99	1.6
ZZ39928		0.012	0.16	0.88	57	0.18	7.12	101	2.1
ZZ39929		0.005	0.55	5.61	109	0.10	14.30	484	2.4
ZZ39930		<0.005	0.12	2.92	47	0.05	12.05	141	3.3
ZZ39931		<0.005	0.13	0.83	20	<0.05	11.50	87	3.5
ZZ39932		0.008	0.11	0.57	49	0.11	4.74	71	1.3
ZZ39933		0.012	0.18	0.84	30	0.14	13.00	78	1.3
ZZ39934		<0.005	0.16	1.95	26	<0.05	11.85	92	2.5
ZZ39935		0.005	0.13	0.94	49	<0.05	12.35	105	4.8
ZZ39936		0.005	0.11	2.25	35	<0.05	11.55	85	1.9
ZZ39937		0.007	0.09	1.41	44	0.05	8.40	107	1.8
ZZ39938		0.006	0.11	0.71	26	<0.05	17.95	97	1.5
ZZ39939		0.007	0.10	0.66	35	<0.05	10.15	91	2.6
ZZ39940		0.005	0.09	0.60	44	<0.05	10.20	98	11.0
ZZ39941		<0.005	0.07	1.18	40	<0.05	11.75	84	5.2
ZZ39942		0.005	0.10	0.57	48	<0.05	12.65	94	6.0
ZZ39943		0.006	0.10	1.02	46	0.06	13.00	90	4.6
ZZ39944		0.008	0.10	0.60	62	0.10	5.49	73	2.7
ZZ39945		0.021	0.12	0.81	69	0.25	6.14	62	0.9
ZZ39946		0.015	0.10	1.20	55	0.10	17.30	79	1.6
ZZ39947		0.011	0.08	1.14	48	0.10	11.10	68	1.8
ZZ39948		0.007	0.08	0.51	55	0.05	6.00	71	1.6
ZZ39949		0.015	0.12	1.53	83	<0.05	22.1	88	1.8
ZZ39950		0.005	0.08	0.60	59	<0.05	9.06	80	2.7
ZZ39951		0.009	0.07	1.15	49	<0.05	13.10	69	1.5
ZZ39952		0.027	0.12	1.22	63	0.24	7.15	91	1.2
ZZ39953		0.007	0.10	0.97	56	0.09	15.95	83	1.8
ZZ39954		0.013	0.06	0.63	46	0.05	13.25	85	2.9
ZZ39955		0.012	0.09	1.56	55	0.08	15.30	75	1.8
ZZ39956		0.017	0.10	1.93	57	0.18	7.68	76	1.3
ZZ39957		0.008	0.08	0.68	67	<0.05	11.95	120	2.8
ZZ39958		0.006	0.06	0.56	39	<0.05	10.05	101	3.4
ZZ39959		0.005	0.08	0.95	44	<0.05	12.70	100	3.1



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**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39960		0.35	0.003	0.04	2.19	13.6	<0.2	<10	60	1.17	0.26	0.07	0.11	40.8	21.6	30
ZZ39961		0.21	0.002	0.03	2.05	14.8	<0.2	<10	130	1.09	0.27	0.10	0.21	30.6	12.9	28
ZZ39962		0.22	0.004	0.07	2.21	17.3	<0.2	<10	170	1.23	0.24	0.28	0.37	53.6	18.0	32
ZZ39963		0.22	0.001	0.09	2.00	14.9	<0.2	<10	140	1.84	0.31	0.69	0.32	32.2	15.2	27
ZZ39964		0.21	0.003	0.07	1.73	11.6	<0.2	<10	180	0.76	0.28	0.11	0.33	24.7	11.2	26
ZZ39965		0.25	0.001	0.04	2.20	15.1	<0.2	<10	260	0.88	0.30	0.21	0.10	29.2	12.4	31
ZZ39966		0.23	0.002	0.02	2.40	15.2	<0.2	<10	240	1.13	0.32	0.29	0.20	23.3	14.1	32
ZZ39967		0.21	0.002	0.05	1.76	11.9	<0.2	<10	130	0.48	0.29	0.09	0.14	24.5	7.8	24
ZZ39968		0.27	0.002	0.06	2.19	15.3	<0.2	<10	110	0.69	0.43	0.06	0.14	25.9	12.6	25
ZZ39969		0.33	0.001	0.04	1.23	8.1	<0.2	<10	130	0.30	0.25	0.09	0.11	26.4	5.9	16
ZZ39970		0.24	0.002	0.10	1.55	69.2	<0.2	<10	150	0.57	0.29	0.15	0.23	20.7	12.2	24
ZZ39971		0.20	0.009	2.59	1.27	64.3	<0.2	<10	280	0.83	0.24	0.36	2.24	35.0	8.0	22
ZZ39972		0.22	0.002	0.16	0.80	26.1	<0.2	<10	80	0.24	0.25	0.03	0.52	14.05	6.9	20
ZZ39973		0.18	0.004	1.45	1.66	32.6	<0.2	<10	580	1.01	0.23	1.52	3.76	38.3	10.8	82
ZZ39974		0.21	0.005	1.33	0.77	58.1	<0.2	<10	780	1.40	0.18	0.42	17.75	16.45	8.3	43
ZZ39975		0.20	0.007	2.40	0.43	28.2	<0.2	<10	400	0.34	0.27	0.08	7.30	13.90	2.2	31
ZZ39976		0.24	0.003	1.94	0.46	58.9	<0.2	<10	520	0.70	0.23	0.12	15.70	12.65	8.4	25
ZZ39977		0.23	0.008	1.41	0.42	37.0	<0.2	<10	280	0.51	0.20	0.07	7.71	9.98	3.9	22
ZZ39978		0.18	0.009	0.61	0.61	42.8	<0.2	<10	370	0.49	0.26	0.42	18.55	12.80	8.7	23
ZZ39979		0.23	0.006	0.44	0.33	36.3	<0.2	<10	670	0.56	0.21	0.13	1.34	10.50	7.7	8
ZZ39980		0.25	0.006	0.49	0.35	80.0	<0.2	<10	270	0.37	0.21	0.05	0.86	4.85	6.2	7
ZZ39981		0.23	0.008	0.42	0.61	106.5	<0.2	<10	470	0.71	0.25	0.01	0.84	13.65	8.3	9
ZZ39982		0.26	0.010	0.32	0.43	38.5	<0.2	<10	370	0.81	0.23	0.02	0.75	14.60	7.6	7
ZZ39983		0.25	0.011	0.46	0.54	45.6	<0.2	<10	610	0.63	0.22	0.12	0.80	13.25	7.0	9
ZZ39984		0.25	0.010	0.42	0.74	41.7	<0.2	<10	470	0.61	0.28	0.03	0.65	7.79	9.3	13
ZZ39985		0.29	0.008	0.57	0.56	22.2	<0.2	<10	440	0.54	0.25	0.21	0.73	10.30	8.4	11
ZZ39986		0.16	0.008	0.80	0.60	35.2	<0.2	10	860	0.58	0.23	0.57	1.52	9.72	9.3	11
ZZ39987		0.19	0.008	1.11	0.63	95.3	<0.2	<10	730	0.43	0.25	0.33	1.24	13.25	2.7	16
ZZ39988		0.21	0.004	1.19	0.53	40.0	<0.2	<10	1580	0.23	0.20	0.18	0.88	12.90	1.6	14
ZZ39989		0.23	0.005	1.16	0.70	29.0	<0.2	<10	1060	0.33	0.20	0.26	0.82	12.90	2.2	19
ZZ39990		0.19	0.008	2.75	0.72	45.1	<0.2	<10	1800	0.53	0.21	0.78	2.60	11.65	2.3	39
ZZ39991		0.19	0.008	3.95	0.48	37.6	<0.2	10	1900	0.43	0.15	2.05	3.86	7.63	3.3	47
ZZ39992		0.17	0.011	3.23	0.47	35.9	<0.2	10	1530	0.42	0.12	1.93	2.51	6.26	3.7	39
ZZ39993		0.36	0.007	1.04	0.50	30.5	<0.2	10	1300	0.57	0.17	0.55	1.23	9.49	6.5	22
ZZ39994		0.40	0.004	0.77	0.86	40.0	<0.2	<10	1080	0.61	0.18	1.33	1.15	15.55	7.6	22
ZZ39995		0.34	0.005	0.61	1.25	72.0	<0.2	<10	600	0.88	0.26	1.80	1.77	23.5	13.9	26
ZZ39996		0.31	0.008	0.36	1.13	48.2	<0.2	10	370	1.00	0.22	3.15	1.16	22.6	10.5	22
ZZ39997		0.25	0.006	0.30	1.01	48.9	<0.2	10	390	0.95	0.18	4.21	1.54	18.55	11.5	18
ZZ39998		0.25	0.010	0.37	0.89	65.6	<0.2	10	320	0.75	0.18	3.34	1.39	16.75	9.5	17
ZZ39999		0.25	0.006	0.33	1.09	41.5	<0.2	<10	400	0.85	0.23	2.64	1.36	19.70	11.8	21

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39960		1.18	83.9	4.44	6.40	0.08	0.07	0.06	0.039	0.05	16.5	47.1	0.89	638	0.55	0.01
ZZ39961		1.31	34.0	4.61	6.09	<0.05	0.05	0.04	0.041	0.04	9.8	34.2	0.41	551	0.99	0.01
ZZ39962		1.59	32.7	3.83	5.15	0.05	0.06	0.06	0.038	0.06	13.0	32.4	0.55	942	1.49	0.01
ZZ39963		1.38	54.0	4.94	5.95	0.08	0.06	0.06	0.041	0.04	19.3	34.0	0.56	1380	0.90	0.01
ZZ39964		1.64	26.6	4.20	6.59	<0.05	0.02	0.08	0.031	0.04	9.8	21.4	0.31	554	1.18	0.01
ZZ39965		2.11	22.8	3.83	7.26	0.07	0.04	0.04	0.045	0.05	13.7	30.2	0.50	422	1.68	0.01
ZZ39966		2.28	22.4	4.42	7.23	0.07	0.06	0.02	0.054	0.05	10.8	33.5	0.50	646	1.52	0.01
ZZ39967		1.60	15.2	3.33	7.40	0.06	0.02	0.02	0.034	0.04	12.1	27.4	0.32	227	1.65	0.01
ZZ39968		1.56	30.7	4.95	7.36	0.09	0.07	0.04	0.051	0.04	11.9	37.8	0.34	269	2.26	0.01
ZZ39969		1.33	12.6	2.42	5.50	0.06	<0.02	0.03	0.018	0.04	13.1	20.5	0.23	340	0.90	0.01
ZZ39970		1.49	24.3	3.82	4.75	0.07	0.03	0.05	0.033	0.07	10.2	33.7	0.47	353	1.69	<0.01
ZZ39971		1.66	191.5	4.86	5.23	0.12	0.02	0.15	0.032	0.16	20.1	7.2	0.16	153	27.4	0.01
ZZ39972		2.54	31.1	3.21	4.64	0.05	<0.02	0.05	0.036	0.10	6.3	2.3	0.08	178	11.65	0.01
ZZ39973		1.19	61.0	2.91	4.54	0.11	0.03	0.24	0.038	0.07	20.6	13.8	0.43	343	22.6	0.01
ZZ39974		1.58	132.0	2.18	2.00	0.17	0.05	0.41	0.048	0.07	12.5	4.5	0.04	289	123.5	0.01
ZZ39975		3.29	56.0	2.04	3.27	0.11	0.02	0.08	0.049	0.14	9.2	1.1	0.02	21	65.7	0.01
ZZ39976		1.95	83.4	2.33	2.56	0.12	0.02	0.08	0.040	0.10	8.8	1.1	0.03	588	90.8	0.01
ZZ39977		2.92	52.1	1.79	2.32	0.09	<0.02	0.07	0.029	0.08	7.7	0.8	0.02	174	73.1	0.01
ZZ39978		1.87	54.4	2.56	3.99	0.08	<0.02	0.06	0.037	0.14	6.9	3.9	0.11	350	47.2	0.01
ZZ39979		7.10	72.2	2.42	1.48	0.06	0.03	0.27	0.038	0.12	4.3	1.0	0.04	215	7.67	<0.01
ZZ39980		5.95	60.9	2.37	1.48	<0.05	<0.02	0.20	0.032	0.11	2.4	0.9	0.03	99	6.88	0.01
ZZ39981		3.28	68.5	2.63	2.04	0.06	0.02	0.33	0.039	0.11	6.0	2.9	0.06	133	6.68	0.01
ZZ39982		3.17	76.5	2.45	1.51	0.06	0.02	0.31	0.042	0.12	6.4	2.0	0.04	101	7.14	<0.01
ZZ39983		3.12	62.5	2.54	2.05	0.06	0.02	0.25	0.038	0.11	5.9	4.5	0.09	146	6.20	<0.01
ZZ39984		2.95	77.7	2.76	2.33	0.05	0.02	0.16	0.045	0.11	3.5	6.1	0.08	162	7.16	<0.01
ZZ39985		4.29	64.3	2.32	2.08	0.06	0.03	0.16	0.042	0.12	4.0	10.9	0.14	181	4.82	0.01
ZZ39986		5.12	57.7	2.51	2.08	0.06	0.05	0.27	0.039	0.14	4.3	5.7	0.13	286	4.15	0.01
ZZ39987		4.52	47.8	1.89	2.38	0.06	0.03	0.49	0.038	0.09	6.5	5.0	0.12	49	3.26	0.01
ZZ39988		4.72	25.6	1.09	2.70	0.06	0.02	0.40	0.016	0.08	6.6	3.2	0.08	27	1.54	<0.01
ZZ39989		3.40	35.2	1.50	3.06	0.05	0.03	0.36	0.021	0.07	6.8	4.0	0.10	34	3.50	0.01
ZZ39990		2.22	50.3	1.91	2.58	0.07	0.06	0.51	0.037	0.04	8.2	3.6	0.07	26	5.11	<0.01
ZZ39991		2.27	40.6	1.55	1.82	0.09	0.09	0.57	0.029	0.07	6.2	3.2	0.10	67	7.93	<0.01
ZZ39992		2.26	43.7	1.23	1.76	0.07	0.06	0.54	0.023	0.06	4.9	3.1	0.09	75	8.98	<0.01
ZZ39993		3.22	46.4	2.04	1.87	0.07	0.06	0.50	0.029	0.07	5.2	5.4	0.11	204	5.80	0.01
ZZ39994		1.56	37.1	2.58	2.75	0.07	0.06	0.79	0.028	0.06	7.7	9.4	0.41	351	4.17	0.01
ZZ39995		1.77	46.1	4.09	4.04	0.10	0.09	0.45	0.037	0.12	11.9	16.6	1.04	630	8.40	0.01
ZZ39996		1.07	50.5	2.66	3.51	0.09	0.07	0.56	0.034	0.08	11.1	14.4	1.30	386	6.32	0.01
ZZ39997		0.93	61.7	2.58	3.04	0.07	0.06	0.73	0.031	0.08	8.6	13.2	1.97	755	3.92	0.01
ZZ39998		0.97	43.9	2.36	2.85	0.08	0.06	1.03	0.026	0.07	8.0	12.0	1.26	396	3.45	0.01
ZZ39999		0.96	37.0	2.82	3.53	0.07	0.06	0.41	0.029	0.10	9.6	15.8	1.16	444	3.09	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39960		0.07	35.5	170	18.2	7.7	<0.001	0.01	0.48	8.2	0.5	0.3	9.1	<0.01	0.08	5.4
ZZ39961		0.83	26.5	430	21.9	7.4	<0.001	0.02	0.55	4.9	0.7	0.5	11.8	0.01	0.06	3.5
ZZ39962		0.92	40.8	700	26.2	9.1	<0.001	0.03	0.82	5.7	0.9	0.4	22.4	0.01	0.09	3.8
ZZ39963		0.34	31.0	660	22.8	9.0	<0.001	0.04	0.56	10.0	1.3	0.4	40.0	<0.01	0.07	2.4
ZZ39964		0.63	19.7	640	25.7	8.2	<0.001	0.03	0.45	3.6	0.4	0.6	10.5	0.01	0.04	2.0
ZZ39965		1.11	23.8	310	18.4	11.7	<0.001	0.02	0.61	3.9	0.4	0.7	20.1	<0.01	0.05	3.9
ZZ39966		1.16	29.3	330	18.4	13.4	<0.001	0.02	0.54	4.1	0.4	0.7	23.1	<0.01	0.06	4.0
ZZ39967		1.27	13.9	280	14.8	8.0	<0.001	0.02	0.52	2.8	0.3	0.8	9.5	0.01	0.05	3.1
ZZ39968		0.85	27.3	270	19.9	9.7	<0.001	0.02	0.71	3.5	0.5	0.8	7.4	<0.01	0.10	3.8
ZZ39969		0.51	10.5	280	11.6	13.4	<0.001	0.01	0.36	2.1	0.3	0.5	10.7	<0.01	0.03	2.1
ZZ39970		0.18	23.2	400	19.6	14.3	<0.001	0.02	0.46	3.1	0.5	0.4	15.9	<0.01	0.05	2.9
ZZ39971		0.34	41.7	5700	30.8	11.9	0.006	0.24	17.50	1.9	8.6	0.7	92.1	<0.01	0.12	0.4
ZZ39972		0.19	34.1	1090	15.6	13.7	<0.001	0.10	3.10	0.5	1.9	0.6	9.9	<0.01	0.10	<0.2
ZZ39973		0.48	150.0	2660	14.5	10.9	0.002	0.07	7.09	3.1	7.2	0.7	89.9	<0.01	0.09	1.1
ZZ39974		0.11	368	1040	14.7	9.7	0.004	0.10	16.80	3.5	20.2	0.7	36.8	0.01	0.29	0.3
ZZ39975		0.20	75.6	910	18.6	14.7	0.004	0.23	20.0	1.5	16.6	1.1	44.6	0.01	0.27	0.6
ZZ39976		0.09	143.0	1690	19.8	11.6	0.003	0.15	34.6	0.4	17.1	0.8	33.0	<0.01	0.28	<0.2
ZZ39977		0.09	91.1	1340	14.4	10.3	0.002	0.12	26.9	0.4	14.6	0.8	18.1	<0.01	0.23	<0.2
ZZ39978		0.27	92.7	1500	15.9	13.4	0.002	0.16	10.45	0.8	7.9	0.7	41.0	<0.01	0.15	<0.2
ZZ39979		0.09	50.6	1000	14.2	14.3	0.002	0.06	3.35	3.3	3.0	0.4	29.0	<0.01	0.07	1.3
ZZ39980		0.11	42.6	910	15.7	14.4	0.001	0.05	2.95	2.5	2.2	0.4	15.2	<0.01	0.08	1.3
ZZ39981		0.15	38.7	400	17.0	12.2	0.002	0.03	2.90	3.7	2.4	0.5	24.8	<0.01	0.08	3.1
ZZ39982		0.11	39.1	520	18.4	9.8	0.001	0.06	3.45	3.8	2.4	0.4	22.7	<0.01	0.07	3.2
ZZ39983		0.14	39.1	450	14.2	11.1	0.001	0.02	2.72	3.4	2.1	0.4	26.9	<0.01	0.07	2.4
ZZ39984		0.16	48.2	510	23.0	13.7	0.002	0.03	3.36	2.9	2.9	0.5	25.1	<0.01	0.10	3.5
ZZ39985		0.20	38.7	450	15.9	15.5	0.002	0.04	2.57	3.3	3.1	0.4	31.1	<0.01	0.08	2.9
ZZ39986		0.23	42.2	620	15.2	20.4	0.001	0.09	2.11	3.8	4.7	0.4	57.8	<0.01	0.08	2.5
ZZ39987		0.36	22.4	730	20.0	14.1	0.002	0.10	2.02	3.3	4.5	0.5	36.7	<0.01	0.08	2.5
ZZ39988		0.36	15.9	570	13.8	15.2	<0.001	0.09	0.66	2.0	5.2	0.4	32.6	<0.01	0.04	1.7
ZZ39989		0.39	16.1	800	10.7	13.5	0.004	0.07	0.97	2.2	2.8	0.5	32.9	<0.01	0.05	1.8
ZZ39990		0.32	33.6	1630	13.0	8.5	0.012	0.14	2.14	3.1	7.7	0.5	87.5	0.01	0.08	1.4
ZZ39991		0.12	63.6	1860	11.7	9.4	0.026	0.18	2.68	3.5	8.3	0.4	160.5	<0.01	0.11	1.1
ZZ39992		0.11	54.9	1410	8.4	8.8	0.026	0.20	2.68	2.9	7.1	0.4	136.5	<0.01	0.09	0.8
ZZ39993		0.16	45.2	850	12.2	9.2	0.007	0.10	1.34	4.5	4.8	0.4	82.0	<0.01	0.07	1.6
ZZ39994		0.35	45.7	930	15.7	9.0	0.009	0.09	1.27	3.9	4.1	0.4	59.9	<0.01	0.06	1.6
ZZ39995		0.43	63.8	870	22.6	12.2	0.002	0.03	1.76	5.7	2.3	0.5	46.1	<0.01	0.05	5.0
ZZ39996		0.49	49.3	810	22.6	10.8	0.007	0.12	3.04	5.4	7.8	0.4	66.4	<0.01	0.04	2.7
ZZ39997		0.41	53.8	730	18.7	9.0	0.006	0.08	1.84	4.7	4.4	0.4	57.9	<0.01	0.03	2.5
ZZ39998		0.41	42.7	740	18.7	8.4	0.009	0.12	2.03	3.9	7.8	0.3	63.9	<0.01	0.04	1.9
ZZ39999		0.47	40.2	750	20.0	9.3	0.002	0.04	1.33	4.8	1.7	0.4	45.6	<0.01	0.04	3.0

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**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39960		<0.005	0.08	0.80	45	<0.05	6.97	74	3.2
ZZ39961		0.015	0.10	0.53	53	0.13	5.37	53	1.8
ZZ39962		0.025	0.12	1.43	42	0.18	10.05	71	1.8
ZZ39963		0.009	0.10	1.23	44	0.07	26.9	75	1.6
ZZ39964		0.013	0.13	1.04	68	0.19	4.52	53	0.7
ZZ39965		0.021	0.17	0.72	65	0.33	4.25	58	1.4
ZZ39966		0.019	0.16	0.56	63	0.23	3.52	81	2.2
ZZ39967		0.026	0.15	0.57	69	0.28	2.49	50	1.0
ZZ39968		0.010	0.16	0.41	64	0.15	2.82	51	2.6
ZZ39969		0.011	0.10	0.47	37	0.12	3.19	36	<0.5
ZZ39970		<0.005	0.16	0.70	41	0.07	4.62	111	0.8
ZZ39971		0.015	0.77	9.96	176	0.17	17.70	367	<0.5
ZZ39972		0.008	0.68	1.27	118	0.13	2.58	141	<0.5
ZZ39973		0.014	0.32	3.48	205	0.22	22.3	744	0.6
ZZ39974		<0.005	2.33	14.10	626	0.45	64.3	947	1.1
ZZ39975		0.006	4.99	5.95	351	0.37	9.49	280	<0.5
ZZ39976		<0.005	2.99	7.53	392	0.38	20.0	660	<0.5
ZZ39977		<0.005	2.88	5.45	325	0.38	11.10	470	<0.5
ZZ39978		0.008	2.51	3.13	278	0.28	6.18	453	<0.5
ZZ39979		<0.005	0.73	2.19	54	0.05	8.47	330	0.6
ZZ39980		<0.005	0.65	1.33	47	<0.05	2.57	290	<0.5
ZZ39981		<0.005	0.71	1.58	53	<0.05	7.80	268	0.5
ZZ39982		<0.005	0.68	1.88	38	<0.05	10.15	248	<0.5
ZZ39983		<0.005	0.53	1.41	52	<0.05	8.28	234	<0.5
ZZ39984		<0.005	0.62	1.15	68	0.05	4.45	320	0.7
ZZ39985		0.005	0.42	1.04	43	0.05	6.30	216	0.7
ZZ39986		<0.005	0.37	1.76	50	0.07	11.15	202	1.2
ZZ39987		0.007	0.53	1.89	63	0.10	7.96	110	1.1
ZZ39988		0.009	0.71	1.32	33	0.14	4.46	64	0.5
ZZ39989		0.008	0.42	1.93	50	0.14	5.62	74	0.6
ZZ39990		0.005	0.38	5.73	84	0.14	15.85	127	2.0
ZZ39991		<0.005	0.62	6.07	98	0.14	17.35	246	3.5
ZZ39992		<0.005	0.56	4.84	97	0.14	14.20	216	2.5
ZZ39993		<0.005	0.34	2.46	47	0.08	17.10	170	2.3
ZZ39994		0.006	0.30	2.73	50	0.26	12.85	176	1.7
ZZ39995		0.010	0.50	1.72	64	0.14	14.45	230	3.7
ZZ39996		0.008	0.33	4.64	53	0.10	15.90	187	2.3
ZZ39997		0.007	0.36	2.59	41	0.11	14.40	199	1.8
ZZ39998		0.008	0.35	3.92	45	0.13	12.10	176	1.8
ZZ39999		0.010	0.25	1.39	59	0.11	12.15	193	1.9



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**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40000		0.26	0.004	0.41	1.14	34.1	<0.2	<10	400	0.83	0.23	2.28	1.04	19.50	10.3	24
ZZ38501		0.31	0.005	0.37	1.18	65.5	<0.2	<10	380	0.92	0.25	3.37	1.50	17.55	12.4	22
ZZ38502		0.31	0.003	0.40	0.84	32.3	<0.2	<10	530	0.71	0.21	3.92	2.02	16.00	10.2	18
ZZ38503		0.35	0.005	0.48	0.92	38.5	<0.2	<10	490	0.83	0.23	3.57	2.44	16.50	10.4	20
ZZ38504		0.22	0.005	0.33	1.08	112.0	<0.2	<10	360	0.84	0.17	3.27	1.16	11.75	10.0	20
ZZ38505		0.30	0.003	0.34	1.20	32.4	<0.2	<10	300	0.78	0.21	2.59	0.82	11.05	10.4	21
ZZ38506		0.21	0.004	0.28	1.10	43.4	<0.2	<10	340	0.75	0.18	1.89	0.93	10.35	10.2	21
ZZ38507		0.21	0.012	0.45	1.13	153.0	<0.2	<10	380	1.21	0.19	4.23	1.41	12.35	9.4	20
ZZ38508		0.28	0.006	0.35	1.23	174.5	<0.2	<10	320	0.97	0.22	4.70	1.49	17.20	12.3	21
ZZ38509		0.32	0.006	0.32	1.24	88.1	<0.2	<10	370	0.85	0.21	4.16	1.69	18.60	10.8	22
ZZ38510		0.29	0.006	0.27	1.48	62.9	<0.2	<10	330	0.90	0.23	0.66	0.74	19.90	12.6	28
ZZ38511		0.29	0.006	0.34	1.24	69.2	<0.2	<10	400	0.80	0.24	3.83	0.99	20.7	10.7	22
ZZ38512		0.26	0.008	0.24	1.22	118.0	<0.2	<10	170	1.03	0.21	5.36	1.22	14.85	10.5	18
ZZ38513		0.22	0.006	0.41	0.99	74.9	<0.2	<10	520	0.76	0.16	4.15	1.50	18.85	8.0	18
ZZ38514		0.24	0.009	2.38	0.52	39.9	<0.2	<10	1170	0.58	0.21	1.49	1.89	5.80	6.2	24
ZZ38515		0.20	0.007	2.61	0.47	33.1	<0.2	<10	1200	0.62	0.19	1.26	1.71	5.69	6.9	24
ZZ38516		0.25	0.005	1.68	0.47	29.9	<0.2	<10	1240	0.58	0.17	0.98	1.28	6.03	5.2	22
ZZ38517		0.30	0.004	0.71	0.69	40.1	<0.2	<10	460	0.61	0.19	2.23	1.25	12.00	7.0	19
ZZ38518		0.23	0.003	0.62	0.76	25.4	<0.2	<10	610	0.62	0.18	1.49	0.77	10.95	7.6	18
ZZ38519		0.21	0.003	0.85	0.79	19.6	<0.2	<10	450	0.50	0.14	2.53	0.80	9.92	5.7	21
ZZ38520		0.32	0.007	0.38	1.07	115.5	<0.2	<10	240	0.94	0.18	8.23	1.47	12.55	8.7	18
ZZ38521		0.25	0.002	0.17	1.05	27.3	<0.2	<10	420	0.60	0.21	0.86	0.35	11.15	8.2	20
ZZ38522		0.21	0.005	0.08	1.48	48.0	<0.2	<10	250	0.96	0.24	0.21	0.80	13.10	11.1	26
ZZ38523		0.19	0.006	0.18	1.41	33.8	<0.2	<10	470	0.50	0.20	2.01	1.00	20.9	8.9	29
ZZ38524		0.21	0.002	0.81	1.43	33.3	<0.2	<10	390	0.95	0.19	1.43	3.31	31.0	5.7	32
ZZ38525		0.34	0.020	0.43	1.08	56.2	<0.2	<10	300	0.96	0.25	0.84	1.32	16.35	12.3	25
ZZ38526		0.26	0.015	0.63	1.00	103.5	<0.2	<10	320	0.78	0.19	3.31	1.58	15.45	9.3	23
ZZ38527		0.29	0.002	0.44	0.87	81.9	<0.2	<10	260	0.67	0.18	1.98	1.19	13.55	8.4	20
ZZ38528		0.24	0.005	0.37	0.82	33.2	<0.2	<10	500	0.67	0.20	1.86	2.42	14.00	10.4	19
ZZ38529		0.31	0.005	0.38	0.93	18.7	<0.2	<10	880	0.70	0.20	2.11	1.60	11.60	8.2	19
ZZ38530		0.28	0.005	0.54	0.86	16.2	<0.2	<10	770	0.76	0.18	3.37	2.43	13.10	8.0	20
ZZ38531		0.27	0.006	0.37	0.93	26.5	<0.2	<10	630	0.76	0.19	2.30	1.39	13.40	8.9	19
ZZ38532		0.28	0.004	0.59	0.67	15.7	<0.2	<10	670	0.66	0.20	2.26	2.43	10.60	8.8	16
ZZ38533		0.13	0.016	0.34	0.82	14.5	<0.2	<10	720	0.66	0.17	2.62	1.85	10.55	7.7	15
ZZ38534		0.19	0.004	0.66	1.11	71.2	<0.2	<10	330	0.71	0.21	2.30	0.59	10.65	5.0	28
ZZ38535		0.26	0.039	0.17	0.81	187	<0.2	<10	120	0.56	0.08	>25.0	0.53	10.10	4.7	7
ZZ38536		0.24	0.014	0.13	1.83	300	<0.2	<10	420	1.41	0.27	2.25	1.64	17.90	9.6	30
ZZ38537		0.27	0.010	0.39	1.51	398	<0.2	<10	770	1.15	0.25	3.05	1.97	21.7	9.6	29
ZZ38538		0.34	0.011	0.77	1.08	299	<0.2	<10	610	0.96	0.21	4.84	2.60	18.30	9.4	19
ZZ38539		0.21	0.005	0.60	1.01	27.7	<0.2	<10	560	0.69	0.20	2.31	1.01	13.45	8.7	21

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ40000		0.91	37.3	2.84	3.67	0.07	0.07	0.36	0.032	0.10	9.9	16.1	1.03	382	3.00	0.01
ZZ38501		0.91	37.2	3.33	3.58	0.06	0.05	0.57	0.028	0.09	9.0	15.7	1.62	539	2.67	0.01
ZZ38502		1.04	38.3	2.86	2.72	0.07	0.04	0.31	0.028	0.09	8.0	11.7	1.22	403	4.20	0.01
ZZ38503		0.78	40.3	2.93	2.83	0.06	0.03	0.51	0.028	0.09	8.2	10.7	1.60	635	4.85	0.01
ZZ38504		0.79	26.6	2.60	2.99	<0.05	0.04	0.42	0.026	0.08	7.9	14.8	1.08	346	1.12	0.01
ZZ38505		1.03	25.4	2.81	3.26	<0.05	0.05	0.22	0.035	0.09	7.2	18.3	0.92	283	1.04	0.01
ZZ38506		0.88	25.7	3.12	2.90	0.05	0.04	0.18	0.032	0.08	8.5	14.2	0.31	464	1.02	0.01
ZZ38507		0.65	27.1	2.37	3.15	<0.05	0.05	0.84	0.027	0.09	6.6	13.8	1.55	260	1.11	0.01
ZZ38508		0.95	30.2	3.05	3.63	0.05	0.04	0.72	0.032	0.10	8.8	14.8	1.81	446	1.90	0.01
ZZ38509		0.61	27.9	3.02	3.32	0.05	0.04	0.56	0.031	0.08	9.1	13.3	1.79	670	1.92	0.01
ZZ38510		0.92	37.7	3.86	3.80	0.06	0.06	0.35	0.032	0.09	10.3	14.5	0.53	696	2.44	0.01
ZZ38511		0.78	30.2	3.08	3.51	0.05	0.04	0.58	0.031	0.09	10.9	13.3	1.95	597	2.07	0.01
ZZ38512		0.65	25.5	2.94	3.54	0.06	0.06	1.31	0.033	0.08	8.8	12.0	1.01	489	2.32	0.01
ZZ38513		0.62	19.9	2.76	2.72	0.05	0.03	0.50	0.023	0.06	9.4	8.6	1.38	762	2.55	0.01
ZZ38514		0.94	58.5	2.53	1.49	0.07	0.04	0.26	0.040	0.10	4.2	2.7	0.21	140	5.97	0.01
ZZ38515		0.99	61.4	2.64	1.37	0.07	0.03	0.23	0.034	0.10	4.3	2.3	0.13	169	6.28	0.01
ZZ38516		1.04	44.3	2.06	1.42	0.06	0.02	0.18	0.034	0.09	4.4	2.0	0.08	179	5.10	0.01
ZZ38517		1.10	24.4	1.96	2.11	<0.05	0.03	0.20	0.025	0.09	7.1	7.1	0.57	246	1.32	0.01
ZZ38518		0.67	26.5	2.03	2.63	<0.05	0.03	0.20	0.029	0.06	5.9	8.3	0.19	253	2.52	<0.01
ZZ38519		0.55	27.7	1.51	2.19	0.05	0.04	0.19	0.024	0.06	6.4	7.3	0.20	299	0.83	0.01
ZZ38520		0.78	26.8	2.56	2.79	0.05	0.05	0.58	0.027	0.11	8.2	9.3	1.17	462	2.71	0.01
ZZ38521		0.71	16.0	2.68	2.91	<0.05	0.02	0.20	0.031	0.06	5.4	11.9	0.19	228	2.55	0.01
ZZ38522		0.67	26.2	3.25	3.66	0.05	0.03	0.18	0.037	0.08	6.9	14.9	0.26	343	3.80	0.01
ZZ38523		0.69	13.9	2.85	3.94	0.05	0.02	0.10	0.028	0.06	9.1	13.9	0.42	887	1.46	0.01
ZZ38524		0.68	20.6	3.47	3.53	0.08	0.03	0.32	0.039	0.05	22.9	7.4	0.25	722	3.53	0.01
ZZ38525		0.66	40.7	3.14	3.16	0.05	0.04	0.22	0.036	0.10	8.6	11.0	0.27	489	4.73	0.01
ZZ38526		1.06	33.8	2.38	2.94	0.05	0.04	0.31	0.029	0.08	12.3	9.8	1.01	483	2.07	0.01
ZZ38527		0.74	24.7	1.97	2.78	0.05	0.04	0.30	0.029	0.07	9.7	10.7	0.48	292	1.29	<0.01
ZZ38528		0.81	40.3	2.58	2.57	0.06	0.05	0.30	0.027	0.09	7.2	9.7	0.71	800	4.22	<0.01
ZZ38529		0.55	36.8	2.42	2.62	<0.05	0.05	0.19	0.028	0.09	6.3	8.9	0.38	424	3.08	0.01
ZZ38530		0.61	48.6	2.10	2.54	0.06	0.05	0.37	0.029	0.07	8.1	10.8	0.67	520	3.12	0.01
ZZ38531		0.64	33.2	2.60	2.85	0.05	0.03	0.23	0.025	0.08	7.3	11.3	0.71	468	3.46	0.01
ZZ38532		0.98	50.8	2.34	2.13	0.05	0.04	0.21	0.032	0.09	5.8	7.5	0.52	301	4.87	0.01
ZZ38533		0.45	31.1	2.61	2.23	<0.05	0.04	0.14	0.026	0.06	6.1	7.0	0.18	236	2.90	0.01
ZZ38534		0.74	19.0	2.19	2.84	<0.05	0.04	0.19	0.026	0.06	9.5	5.7	0.16	205	1.52	0.01
ZZ38535		1.54	9.4	1.09	1.68	<0.05	0.03	0.21	0.015	0.04	9.7	6.6	0.16	151	0.81	0.01
ZZ38536		1.01	23.3	3.64	4.79	0.06	0.09	0.09	0.044	0.13	12.4	10.1	0.24	471	2.60	0.01
ZZ38537		1.75	28.2	3.35	4.11	0.05	0.05	0.28	0.030	0.09	18.0	11.7	0.42	415	3.90	0.01
ZZ38538		1.52	38.3	3.08	3.36	0.06	0.06	1.14	0.030	0.11	11.1	11.3	1.64	424	5.83	0.01
ZZ38539		0.56	27.3	2.48	2.96	0.06	0.04	0.18	0.030	0.07	12.2	12.6	0.24	227	1.02	0.01

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**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40000		0.45	38.7	780	18.3	9.4	0.002	0.04	1.28	4.8	2.0	0.5	41.4	<0.01	0.04	2.7
ZZ38501		0.34	47.7	840	25.8	8.2	0.001	0.04	1.43	4.9	1.5	0.4	45.3	<0.01	0.06	2.2
ZZ38502		0.32	48.0	950	18.9	7.1	0.002	0.03	2.33	4.5	1.3	0.4	79.8	<0.01	0.06	2.7
ZZ38503		0.26	50.9	1010	20.3	7.4	0.001	0.04	2.51	4.6	1.8	0.6	48.8	<0.01	0.05	1.7
ZZ38504		0.30	41.4	860	20.5	7.7	0.001	0.07	0.85	3.7	0.7	0.4	34.4	<0.01	0.05	1.1
ZZ38505		0.30	39.3	750	16.4	8.1	0.002	0.04	0.55	4.5	0.8	0.4	30.0	<0.01	0.03	2.1
ZZ38506		0.26	35.3	820	14.7	7.8	0.002	0.07	0.62	3.8	1.1	0.4	30.6	<0.01	0.05	1.3
ZZ38507		0.36	48.2	880	39.4	7.2	0.002	0.09	1.43	3.4	1.3	0.4	39.2	<0.01	0.03	1.1
ZZ38508		0.45	54.6	810	28.1	8.3	0.002	0.03	1.37	4.6	0.6	0.5	44.1	<0.01	0.04	2.2
ZZ38509		0.46	37.4	850	23.8	6.5	0.001	0.05	1.20	3.6	0.9	0.4	35.9	<0.01	0.06	1.2
ZZ38510		0.43	49.8	790	23.1	8.0	0.001	0.03	1.21	5.7	1.4	0.4	23.6	<0.01	0.07	3.9
ZZ38511		0.45	37.4	900	27.0	8.1	0.001	0.03	1.27	4.3	1.1	0.5	38.0	<0.01	0.02	1.7
ZZ38512		0.35	43.1	780	28.7	6.8	0.002	0.04	1.50	4.8	1.1	0.5	56.7	<0.01	0.03	2.0
ZZ38513		0.31	30.3	740	25.6	6.2	0.001	0.06	1.48	3.5	1.1	0.4	38.7	<0.01	0.05	0.9
ZZ38514		0.10	98.5	1430	13.2	7.8	0.007	0.18	1.78	5.2	5.7	0.4	134.5	<0.01	0.14	1.1
ZZ38515		0.09	103.5	1600	11.7	7.2	0.006	0.18	1.80	5.0	4.9	0.4	131.5	<0.01	0.12	1.0
ZZ38516		0.07	63.0	1620	11.9	7.7	0.006	0.09	1.53	4.6	3.8	0.4	103.5	<0.01	0.13	1.5
ZZ38517		0.29	38.0	890	14.0	7.8	0.002	0.05	0.88	3.6	1.2	0.4	47.9	<0.01	0.06	1.6
ZZ38518		0.27	38.3	850	12.7	6.8	0.002	0.07	1.21	3.0	2.1	0.4	50.3	<0.01	0.09	1.2
ZZ38519		0.30	31.8	960	10.4	7.3	0.002	0.10	0.68	2.3	2.1	0.4	61.2	<0.01	0.08	0.7
ZZ38520		0.21	44.7	830	23.4	7.6	0.001	0.03	1.34	4.6	0.9	0.4	75.8	<0.01	0.06	2.4
ZZ38521		0.36	29.7	320	17.1	8.5	0.001	0.03	0.95	3.0	0.6	0.5	18.3	<0.01	0.06	1.7
ZZ38522		0.24	42.9	350	22.0	9.0	0.001	0.03	1.35	4.0	1.1	0.6	14.7	<0.01	0.05	3.2
ZZ38523		0.67	24.8	730	14.4	7.1	0.001	0.06	0.64	2.6	0.8	0.5	31.1	<0.01	0.03	1.1
ZZ38524		0.51	38.7	880	20.2	7.7	0.002	0.06	1.30	6.0	2.3	0.6	26.2	<0.01	0.04	1.6
ZZ38525		0.27	55.9	920	21.8	7.3	0.001	0.03	2.17	5.0	1.6	0.5	28.5	<0.01	0.06	2.9
ZZ38526		0.32	44.6	990	16.3	8.5	0.003	0.07	1.14	3.5	2.0	0.5	41.4	<0.01	0.05	0.9
ZZ38527		0.30	33.9	800	17.2	7.6	0.003	0.06	0.84	3.5	1.6	0.4	35.0	<0.01	0.04	1.4
ZZ38528		0.29	52.0	900	16.8	6.9	0.003	0.03	2.26	4.5	1.4	0.5	41.9	<0.01	0.08	2.7
ZZ38529		0.33	42.5	870	15.0	6.5	<0.001	0.06	2.08	3.7	1.7	0.4	44.6	<0.01	0.06	1.5
ZZ38530		0.37	43.2	950	13.3	7.1	0.004	0.09	2.26	3.7	2.1	0.4	66.0	<0.01	0.06	0.8
ZZ38531		0.33	43.3	900	16.9	6.7	0.003	0.06	1.89	3.6	1.9	0.5	45.2	<0.01	0.06	1.2
ZZ38532		0.22	55.1	1040	14.4	6.9	0.006	0.06	2.98	4.2	2.8	0.4	69.8	<0.01	0.07	1.5
ZZ38533		0.34	35.0	880	11.5	6.2	0.004	0.12	1.38	3.3	2.0	0.4	36.8	<0.01	0.04	1.3
ZZ38534		0.29	29.4	950	17.3	6.7	0.001	0.09	0.74	2.1	1.2	0.4	21.2	<0.01	0.05	0.5
ZZ38535		0.10	49.2	2780	8.7	6.0	0.001	0.03	0.46	3.2	0.7	0.3	122.0	<0.01	0.01	0.9
ZZ38536		0.39	58.6	550	27.2	10.2	0.001	0.07	1.22	5.3	1.4	0.7	20.7	<0.01	0.05	1.8
ZZ38537		0.54	67.5	980	25.6	10.3	<0.001	0.08	1.86	3.4	2.1	0.6	28.2	<0.01	0.06	0.8
ZZ38538		0.33	57.7	1050	46.4	9.5	0.005	0.09	4.12	3.7	3.0	0.5	44.8	<0.01	0.08	1.4
ZZ38539		0.37	36.8	1000	13.6	6.8	0.002	0.14	0.71	3.4	2.6	0.4	47.9	<0.01	0.07	1.0

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40000		0.009	0.22	1.64	58	0.12	12.80	188	1.9
ZZ38501		0.008	0.24	1.45	68	0.11	16.15	217	1.4
ZZ38502		0.009	0.25	1.40	86	0.15	13.45	257	1.6
ZZ38503		0.006	0.25	1.72	106	0.09	17.10	287	1.2
ZZ38504		<0.005	0.18	1.33	42	0.16	16.55	209	1.3
ZZ38505		0.005	0.11	0.82	38	0.07	15.55	159	1.2
ZZ38506		<0.005	0.12	1.57	38	0.13	19.00	145	1.1
ZZ38507		0.006	0.41	1.74	48	0.36	12.40	328	1.6
ZZ38508		0.009	0.27	1.33	56	0.25	14.45	257	1.5
ZZ38509		0.012	0.16	1.09	59	0.16	13.15	214	1.0
ZZ38510		0.014	0.18	0.96	65	0.10	15.15	242	2.1
ZZ38511		0.015	0.19	1.17	60	0.18	14.95	192	1.0
ZZ38512		0.005	0.23	1.92	59	0.15	16.45	199	2.0
ZZ38513		0.007	0.16	1.61	65	0.13	14.15	186	0.9
ZZ38514		<0.005	0.18	3.24	63	0.06	28.6	303	1.5
ZZ38515		<0.005	0.18	3.08	61	0.05	30.4	308	1.4
ZZ38516		<0.005	0.13	2.76	58	0.05	26.0	244	1.1
ZZ38517		0.007	0.13	1.77	48	0.07	15.60	172	1.0
ZZ38518		0.005	0.09	1.95	57	0.09	13.35	157	1.2
ZZ38519		0.006	0.10	2.05	41	<0.05	15.05	128	1.2
ZZ38520		<0.005	0.24	1.85	57	0.16	17.20	220	1.8
ZZ38521		0.006	0.11	0.73	60	0.13	6.84	151	0.8
ZZ38522		<0.005	0.13	0.94	83	0.08	8.04	197	1.3
ZZ38523		0.019	0.08	1.00	59	0.39	7.71	100	0.6
ZZ38524		0.009	0.16	2.65	102	0.11	39.6	183	0.8
ZZ38525		0.005	0.16	1.57	88	0.09	16.80	261	1.4
ZZ38526		0.005	0.18	2.11	61	0.10	26.9	180	1.3
ZZ38527		0.005	0.18	1.57	45	0.07	20.5	152	1.3
ZZ38528		0.007	0.19	1.30	74	0.08	13.90	238	1.7
ZZ38529		0.008	0.15	1.73	78	0.08	11.60	217	1.4
ZZ38530		0.006	0.21	2.38	73	0.08	18.70	186	1.5
ZZ38531		0.006	0.13	1.78	68	0.07	12.50	199	1.0
ZZ38532		<0.005	0.22	1.76	82	0.05	15.10	279	1.8
ZZ38533		0.005	0.09	2.15	64	0.07	10.95	155	1.4
ZZ38534		0.006	0.12	2.70	68	0.10	20.1	116	0.8
ZZ38535		<0.005	0.20	8.25	37	0.13	25.0	164	0.7
ZZ38536		<0.005	0.24	1.13	80	0.28	25.4	314	2.2
ZZ38537		0.009	0.44	2.53	93	0.38	28.5	319	1.3
ZZ38538		0.006	0.77	2.53	142	0.34	16.90	374	1.8
ZZ38539		0.005	0.12	1.78	39	0.26	24.8	141	1.5



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ38540		0.30	0.008	0.98	0.86	104.0	<0.2	<10	1040	0.68	0.20	3.46	1.41	12.15	8.3	21
ZZ38541		0.22	0.008	0.81	0.98	20.9	<0.2	<10	580	0.64	0.19	1.91	0.80	11.70	8.1	22
ZZ38542		0.28	0.010	0.85	0.89	22.3	<0.2	<10	640	0.66	0.19	1.94	0.93	8.19	9.1	20
ZZ38543		0.18	0.008	1.51	0.52	10.3	<0.2	<10	620	0.44	0.13	2.79	0.94	10.40	4.3	25
ZZ38544		0.24	0.009	1.07	0.48	9.2	<0.2	<10	520	0.37	0.15	1.82	0.47	7.24	3.8	16
ZZ38545		0.26	0.005	0.74	0.76	10.2	<0.2	<10	670	0.42	0.17	2.58	0.69	13.75	6.3	18
ZZ38546		0.24	0.001	0.22	1.68	29.3	<0.2	<10	540	0.89	0.31	1.58	1.95	27.5	9.4	34
ZZ38547		0.24	0.022	0.99	0.92	23.3	<0.2	<10	570	0.52	0.18	2.51	0.60	16.20	6.6	20
ZZ38548		0.20	0.004	0.44	1.43	61.3	<0.2	<10	570	0.89	0.23	2.10	0.93	25.9	9.4	35
ZZ38549		0.22	0.012	0.54	1.34	60.3	<0.2	<10	370	0.74	0.22	4.40	2.13	20.6	8.8	29
ZZ38550		0.21	0.013	0.51	1.05	21.8	<0.2	<10	490	0.62	0.17	2.45	0.67	10.85	8.0	21
ZZ38551		0.16	0.019	0.73	0.92	37.3	<0.2	<10	480	0.55	0.14	4.08	1.03	11.90	6.2	20
ZZ38552		0.17	0.005	0.51	1.63	46.1	<0.2	<10	410	0.70	0.22	1.42	0.94	19.00	7.4	31
ZZ38553		0.23	0.008	0.61	1.18	134.5	<0.2	<10	370	0.74	0.20	2.20	2.38	18.15	9.2	24
ZZ38554		0.26	0.006	0.69	0.66	70.2	<0.2	<10	320	0.57	0.12	2.54	2.10	11.55	9.6	16
ZZ38555		0.29	0.006	0.19	1.14	23.1	<0.2	<10	370	0.42	0.23	0.52	0.39	21.3	5.4	21
ZZ38556		0.27	0.004	0.20	1.57	26.8	<0.2	<10	340	0.80	0.22	0.21	0.30	26.7	8.5	28
ZZ38557		0.31	0.003	0.17	1.27	11.3	<0.2	<10	340	0.60	0.19	0.46	0.36	25.4	7.7	26
ZZ38558		0.30	0.004	0.40	0.92	26.9	<0.2	<10	450	0.65	0.20	1.78	1.07	18.90	7.2	20
ZZ38559		0.21	0.006	0.22	0.94	11.5	<0.2	<10	350	0.46	0.15	2.00	0.83	16.00	7.3	19
ZZ38560		0.23	0.005	0.26	0.90	19.1	<0.2	<10	570	0.75	0.20	2.34	0.61	10.30	9.0	22
ZZ38561		0.20	0.007	0.52	1.31	20.4	<0.2	<10	410	0.95	0.17	4.02	10.45	18.15	14.6	33
ZZ38562		0.34	0.001	0.11	2.11	30.7	<0.2	<10	250	0.61	0.28	0.46	2.05	30.3	8.9	29
ZZ38563		0.27	0.008	0.79	1.17	37.8	<0.2	<10	830	0.88	0.20	1.49	1.13	20.7	8.6	24
ZZ38564		0.22	0.009	0.68	0.96	20.9	<0.2	<10	920	0.58	0.19	2.55	3.72	19.20	9.8	20
ZZ38565		0.31	0.010	1.17	0.59	17.0	<0.2	<10	600	0.64	0.18	0.96	2.79	20.9	9.3	19
ZZ38566		0.27	0.005	0.27	1.02	15.2	<0.2	<10	560	0.54	0.21	0.80	0.67	16.00	9.4	21
ZZ38567		0.31	0.007	0.63	0.96	17.6	<0.2	<10	660	0.64	0.23	0.55	1.31	16.05	8.7	19
ZZ38568		0.28	0.007	0.67	0.49	16.8	<0.2	<10	600	0.60	0.15	1.25	1.48	16.40	6.8	12
ZZ38569		0.18	0.009	0.77	0.64	6.8	<0.2	<10	940	0.53	0.14	0.75	3.94	20.2	2.6	14
ZZ38570		0.21	0.007	0.72	0.53	6.2	<0.2	<10	930	0.40	0.22	0.68	2.01	7.08	2.3	13

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
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 Account: RCM

Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ38540		1.33	31.8	2.55	2.59	<0.05	0.06	0.30	0.028	0.09	8.0	11.8	0.59	210	3.50	0.01
ZZ38541		0.67	30.5	2.76	2.65	<0.05	0.04	0.13	0.028	0.06	9.2	12.4	0.25	295	1.35	0.01
ZZ38542		1.22	49.9	2.61	2.50	0.05	0.05	0.16	0.038	0.08	6.0	12.6	0.29	256	1.80	0.01
ZZ38543		0.44	27.8	1.50	1.48	<0.05	0.03	0.16	0.022	0.05	8.7	4.1	0.09	190	1.04	<0.01
ZZ38544		1.13	27.9	1.47	1.42	<0.05	0.04	0.11	0.028	0.07	4.9	3.4	0.10	185	1.46	<0.01
ZZ38545		1.43	19.2	1.85	2.20	<0.05	0.03	0.18	0.022	0.04	9.4	7.0	0.15	311	0.56	<0.01
ZZ38546		1.29	16.7	3.12	4.68	0.06	0.04	0.09	0.039	0.06	32.3	10.7	0.30	493	0.94	0.01
ZZ38547		3.69	25.9	1.72	2.56	<0.05	0.05	0.24	0.028	0.07	13.4	8.2	0.19	202	0.82	0.01
ZZ38548		1.43	15.3	2.79	4.19	0.09	0.04	0.12	0.036	0.05	30.1	13.5	0.27	353	1.39	0.01
ZZ38549		1.77	26.0	2.62	3.73	0.08	0.05	0.20	0.033	0.08	30.6	14.2	0.31	486	1.20	0.01
ZZ38550		1.53	23.1	2.18	2.95	<0.05	0.05	0.14	0.025	0.07	8.4	15.0	0.31	222	1.45	0.01
ZZ38551		1.38	24.2	1.51	2.55	0.06	0.05	0.22	0.018	0.06	11.5	8.1	0.19	261	1.57	0.01
ZZ38552		2.05	19.8	2.19	4.28	0.06	0.05	0.21	0.032	0.09	16.0	11.8	0.19	170	2.38	0.01
ZZ38553		1.18	22.1	2.54	3.49	0.07	0.05	0.49	0.025	0.07	17.7	9.8	0.23	281	4.79	0.01
ZZ38554		0.77	20.0	1.50	2.01	0.05	0.04	0.43	0.019	0.06	14.7	5.3	0.14	647	2.74	<0.01
ZZ38555		1.63	11.6	2.16	4.58	<0.05	0.02	0.10	0.025	0.06	12.6	9.6	0.16	174	1.46	<0.01
ZZ38556		1.40	30.7	2.92	4.15	0.05	0.07	0.22	0.033	0.06	15.4	16.9	0.34	278	1.09	0.01
ZZ38557		0.92	24.1	2.31	3.84	<0.05	0.03	0.16	0.027	0.06	13.5	15.0	0.37	191	1.37	0.01
ZZ38558		0.75	21.6	2.57	2.76	0.05	0.04	0.27	0.026	0.07	13.4	10.4	0.40	368	1.87	0.01
ZZ38559		0.50	18.4	2.00	2.66	0.05	0.05	0.17	0.023	0.06	8.8	12.5	0.32	252	0.69	0.01
ZZ38560		0.49	23.0	2.99	2.30	<0.05	0.04	0.21	0.035	0.06	7.2	7.0	0.13	451	2.00	0.01
ZZ38561		0.67	44.5	2.91	2.90	0.07	0.04	0.32	0.035	0.07	22.4	7.6	0.16	774	6.61	0.01
ZZ38562		1.46	11.8	3.43	6.50	<0.05	0.02	0.06	0.041	0.04	13.5	17.9	0.23	275	2.69	<0.01
ZZ38563		0.77	39.0	3.00	3.27	0.06	0.04	0.32	0.036	0.07	13.5	8.1	0.23	352	4.36	0.01
ZZ38564		0.58	39.4	2.57	2.97	<0.05	0.04	0.32	0.026	0.06	10.5	8.9	0.23	430	3.04	0.01
ZZ38565		0.88	64.9	2.60	2.12	0.06	0.03	0.19	0.035	0.12	8.7	4.6	0.08	208	7.82	<0.01
ZZ38566		1.02	34.0	2.69	3.40	<0.05	0.04	0.09	0.031	0.07	7.6	10.3	0.24	336	5.57	<0.01
ZZ38567		1.51	42.6	2.63	3.14	<0.05	0.02	0.20	0.046	0.09	7.9	9.7	0.19	205	5.53	<0.01
ZZ38568		0.71	48.7	2.14	1.81	0.07	0.03	0.25	0.028	0.08	7.4	3.5	0.08	216	4.57	<0.01
ZZ38569		0.83	65.5	2.56	1.95	0.05	0.05	0.38	0.027	0.05	8.6	3.8	0.08	73	1.41	<0.01
ZZ38570		0.94	33.2	1.13	1.90	<0.05	0.06	0.18	0.031	0.08	4.0	2.8	0.08	32	4.19	<0.01

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38540		0.30	59.4	1100	16.2	8.0	0.002	0.19	1.26	4.6	2.1	0.4	76.5	<0.01	0.08	2.7
ZZ38541		0.33	45.6	860	11.9	6.9	0.002	0.13	0.66	4.1	2.8	0.4	56.0	<0.01	0.05	1.8
ZZ38542		0.17	50.3	790	15.0	8.8	0.004	0.13	0.64	4.6	3.4	0.4	62.9	<0.01	0.08	1.6
ZZ38543		0.20	37.2	1200	8.3	5.1	0.002	0.10	0.68	2.3	3.0	0.3	65.3	<0.01	0.08	0.7
ZZ38544		0.17	27.4	630	8.4	7.1	0.003	0.09	0.65	2.3	2.6	0.3	53.7	<0.01	0.07	0.8
ZZ38545		0.40	25.2	700	10.5	6.3	0.001	0.09	0.52	2.6	1.7	0.4	60.8	<0.01	0.07	0.8
ZZ38546		0.69	29.3	840	19.1	8.9	0.001	0.08	0.55	3.7	1.8	0.6	27.1	<0.01	0.19	1.3
ZZ38547		0.44	31.2	910	10.0	11.5	0.003	0.12	0.59	2.4	2.7	0.4	46.6	<0.01	0.03	0.5
ZZ38548		0.56	31.5	780	16.4	8.1	0.001	0.07	0.66	3.4	2.2	0.5	39.2	0.01	0.09	0.9
ZZ38549		0.45	34.4	1160	15.3	10.2	<0.001	0.09	0.67	3.3	2.4	0.5	44.5	<0.01	0.11	0.8
ZZ38550		0.30	34.0	810	11.2	8.6	<0.001	0.09	0.59	2.8	1.7	0.4	47.3	<0.01	0.07	0.7
ZZ38551		0.38	35.0	860	10.8	8.6	0.003	0.14	0.62	1.9	3.5	0.4	56.6	<0.01	0.08	0.4
ZZ38552		0.58	37.8	510	19.8	10.1	<0.001	0.07	0.59	4.2	3.8	0.6	30.2	<0.01	0.08	1.5
ZZ38553		0.46	70.1	690	54.8	8.3	<0.001	0.06	1.39	4.1	3.0	0.5	33.9	<0.01	0.08	1.2
ZZ38554		0.26	48.1	1100	27.3	6.3	0.003	0.06	0.84	2.6	3.4	0.3	40.8	<0.01	0.07	0.5
ZZ38555		0.56	15.4	390	13.4	14.1	<0.001	0.02	0.41	2.8	1.1	0.6	21.3	<0.01	0.07	2.0
ZZ38556		0.69	22.1	790	14.7	12.2	0.002	0.03	0.58	4.9	1.9	0.5	18.2	<0.01	0.05	3.3
ZZ38557		0.73	27.7	920	12.9	9.1	0.001	0.03	0.70	3.7	1.5	0.5	23.6	<0.01	0.02	2.3
ZZ38558		0.44	32.3	900	13.5	6.7	<0.001	0.05	0.82	4.4	2.5	0.4	48.0	<0.01	0.09	2.2
ZZ38559		0.57	26.2	1000	9.7	6.6	0.003	0.11	0.56	2.7	1.5	0.4	38.3	<0.01	0.02	1.6
ZZ38560		0.23	35.5	910	15.1	6.2	0.001	0.13	0.64	3.2	2.5	0.5	42.6	<0.01	0.06	0.9
ZZ38561		0.38	162.5	1710	13.4	7.6	0.001	0.13	1.16	3.3	3.2	0.4	44.7	<0.01	0.08	0.6
ZZ38562		1.26	29.6	330	19.1	8.5	<0.001	0.03	0.81	3.3	1.1	0.8	12.9	0.01	0.10	2.0
ZZ38563		0.31	52.6	920	19.5	7.5	0.002	0.04	2.23	5.3	2.9	0.5	32.3	<0.01	0.08	2.1
ZZ38564		0.58	45.1	1080	14.5	6.9	0.004	0.09	1.68	3.3	3.0	0.4	47.2	<0.01	0.05	1.0
ZZ38565		0.18	66.5	1770	19.1	7.8	0.003	0.09	3.45	4.0	5.0	0.6	192.5	<0.01	0.11	3.3
ZZ38566		0.43	40.5	860	13.1	8.6	0.002	0.03	2.02	3.2	2.9	0.5	31.4	<0.01	0.06	1.6
ZZ38567		0.36	47.2	940	13.3	10.9	0.002	0.02	2.55	3.9	3.8	0.5	41.4	<0.01	0.08	2.3
ZZ38568		0.18	46.3	1470	12.7	7.0	0.011	0.07	2.54	3.7	4.4	0.4	60.3	<0.01	0.05	2.2
ZZ38569		0.29	33.9	1120	12.3	6.2	0.022	0.13	1.69	3.9	6.8	0.3	44.7	<0.01	0.04	1.4
ZZ38570		0.19	21.7	680	13.6	8.6	0.015	0.06	2.36	3.2	4.8	0.5	53.2	<0.01	0.07	1.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ38540		0.006	0.28	1.73	52	0.16	20.4	230	2.5
ZZ38541		0.005	0.12	1.80	36	0.09	22.0	144	1.7
ZZ38542		<0.005	0.16	1.51	34	<0.05	21.9	171	1.5
ZZ38543		<0.005	0.11	2.41	45	0.05	22.9	129	1.3
ZZ38544		<0.005	0.12	1.59	28	<0.05	14.25	108	1.3
ZZ38545		0.009	0.12	1.86	32	0.08	23.3	75	1.2
ZZ38546		0.014	0.21	0.70	63	0.17	44.2	161	1.1
ZZ38547		0.008	0.37	3.44	31	0.08	28.5	104	1.4
ZZ38548		0.011	0.19	2.00	53	0.15	52.7	116	1.1
ZZ38549		0.008	0.20	1.26	42	0.15	53.5	142	1.1
ZZ38550		0.006	0.16	1.63	31	0.14	16.95	105	1.2
ZZ38551		0.006	0.25	2.73	31	0.07	26.4	117	1.5
ZZ38552		0.007	0.34	2.31	57	0.14	27.7	146	1.4
ZZ38553		0.007	0.43	1.57	63	0.15	32.2	332	1.5
ZZ38554		0.006	0.37	2.66	41	0.09	38.4	230	1.1
ZZ38555		0.012	0.18	2.02	51	0.22	10.15	73	0.5
ZZ38556		0.013	0.18	1.56	50	0.36	20.2	111	1.7
ZZ38557		0.019	0.13	1.34	48	0.27	11.70	110	0.7
ZZ38558		0.010	0.10	1.53	41	0.10	20.7	146	1.2
ZZ38559		0.014	0.10	0.93	38	0.24	10.30	135	1.4
ZZ38560		<0.005	0.11	2.31	50	0.07	18.40	134	1.1
ZZ38561		0.008	0.15	2.21	108	0.10	62.4	779	1.2
ZZ38562		0.022	0.19	0.89	90	0.27	10.30	185	0.8
ZZ38563		0.005	0.23	2.93	102	0.10	26.8	303	1.1
ZZ38564		0.010	0.14	4.54	67	0.12	17.55	193	1.5
ZZ38565		<0.005	0.36	2.81	130	0.08	14.35	380	1.0
ZZ38566		0.011	0.21	1.99	89	0.16	7.87	231	0.9
ZZ38567		0.008	0.31	1.83	89	0.12	11.30	320	0.8
ZZ38568		<0.005	0.21	2.95	91	<0.05	17.30	280	1.1
ZZ38569		0.005	0.26	3.74	55	0.06	20.0	95	1.4
ZZ38570		<0.005	0.28	2.05	136	0.09	8.20	153	2.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200332**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12200333**

Project: ATACRegional- AreaB- RacklaCntrl  
 P.O. No.: Soil 35  
 This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57871		0.20	0.002	0.08	2.23	10.8	<0.2	<10	130	0.41	0.23	0.05	0.12	24.3	10.6	31
ZZ57872		0.21	0.002	0.15	2.43	12.6	<0.2	<10	240	0.81	0.31	0.14	0.14	27.3	8.7	31
ZZ57873		0.19	0.002	0.10	1.35	14.0	<0.2	<10	90	0.22	0.32	0.03	0.08	19.80	7.5	29
ZZ57874		0.18	0.003	0.23	1.97	38.8	<0.2	<10	240	0.79	0.25	1.55	0.46	17.80	17.4	28
ZZ57875		0.24	0.001	0.08	1.90	12.8	<0.2	<10	30	0.70	0.29	0.03	0.17	15.05	10.4	28
ZZ57876		0.25	0.002	0.04	1.53	12.1	<0.2	<10	40	0.29	0.25	0.01	0.08	20.8	7.5	23
ZZ57877		0.23	0.003	0.08	1.86	10.2	<0.2	<10	150	0.61	0.26	0.10	0.14	22.2	11.0	25
ZZ57878		0.18	0.004	0.11	1.33	39.5	<0.2	<10	180	0.65	0.22	0.83	0.29	16.85	13.2	22
ZZ57879		0.27	0.004	0.22	1.01	29.0	<0.2	<10	560	0.77	0.21	2.34	0.80	12.40	10.8	19
ZZ57880		0.23	0.005	0.24	1.07	28.0	<0.2	<10	550	0.73	0.21	1.57	0.71	13.50	11.2	22
ZZ57881		0.29	0.001	0.23	1.33	26.0	<0.2	<10	540	0.92	0.23	1.13	0.40	12.30	10.5	23
ZZ57882		0.30	0.003	0.24	1.19	34.1	<0.2	<10	390	0.89	0.23	2.00	0.98	18.25	14.9	23
ZZ57883		0.30	0.003	0.24	1.13	31.1	<0.2	<10	270	0.79	0.22	2.12	1.01	18.10	13.9	22
ZZ57884		0.21	0.004	0.55	0.91	15.2	<0.2	<10	380	0.81	0.18	1.77	4.66	9.96	9.6	25
ZZ57885		0.18	0.006	0.53	1.00	19.2	<0.2	<10	420	0.84	0.18	1.71	4.95	10.45	12.0	24
ZZ57886		0.21	0.004	0.40	0.75	16.9	<0.2	<10	310	0.60	0.17	1.29	2.27	7.78	11.4	18
ZZ57887		0.23	0.003	0.31	1.06	16.0	<0.2	<10	440	0.65	0.16	1.70	1.32	10.80	10.6	21
ZZ57888		0.26	0.005	0.24	1.27	20.2	<0.2	<10	430	0.78	0.22	1.26	0.73	15.70	10.6	24
ZZ57889		0.20	0.003	0.24	1.28	15.7	<0.2	<10	550	0.66	0.18	1.16	1.10	16.25	10.9	24
ZZ57890		0.22	0.003	0.31	1.45	10.9	<0.2	<10	500	0.79	0.23	1.17	1.63	17.10	9.5	27
ZZ57891		0.25	0.008	0.32	1.65	20.9	<0.2	<10	530	0.85	0.24	1.29	1.08	18.70	14.2	29
ZZ57892		0.24	0.004	0.33	1.27	14.4	<0.2	<10	600	0.66	0.17	1.31	1.27	14.05	8.3	25
ZZ57893		0.17	0.008	0.46	0.91	141.0	<0.2	<10	530	0.65	0.18	1.55	2.41	12.10	9.2	21
ZZ57894		0.19	0.006	0.43	0.92	180.0	<0.2	<10	610	0.67	0.20	1.05	1.81	11.95	8.6	22
ZZ57895		0.21	0.003	0.36	1.15	27.9	<0.2	<10	610	0.56	0.18	1.95	0.69	11.50	8.4	22
ZZ57896		0.25	0.004	0.39	1.22	61.1	<0.2	<10	590	0.77	0.21	1.20	1.30	13.85	10.2	24
ZZ57897		0.20	0.004	0.42	0.82	159.0	<0.2	10	520	0.57	0.17	1.68	1.30	10.80	7.7	19
ZZ57898		0.17	0.005	0.46	0.84	100.0	<0.2	<10	670	0.63	0.16	1.29	1.40	11.75	9.0	19
ZZ57899		0.20	0.005	0.23	1.01	123.5	<0.2	<10	310	0.73	0.23	1.39	1.03	11.00	10.2	19
ZZ57900		0.27	0.002	0.18	1.23	14.9	<0.2	<10	390	0.78	0.22	1.39	0.96	12.65	11.6	23
ZZ57901		0.23	0.004	0.41	0.87	18.4	<0.2	<10	930	0.57	0.18	1.15	1.47	13.50	10.3	19
ZZ57902		0.23	0.006	0.40	1.27	16.5	<0.2	<10	890	0.76	0.20	0.84	1.81	16.65	11.5	25
ZZ57903		0.26	0.007	0.27	0.97	31.8	<0.2	<10	1010	0.54	0.15	2.98	1.87	12.15	11.1	19
ZZ57904		0.24	0.005	0.42	1.01	16.0	<0.2	10	890	0.72	0.19	1.50	2.02	13.40	11.4	21
ZZ57905		0.23	0.004	0.30	0.91	35.2	<0.2	<10	820	0.58	0.17	0.91	1.15	11.95	9.1	19
ZZ57906		0.19	0.006	0.49	0.80	109.0	<0.2	10	380	0.65	0.18	1.22	1.41	11.60	7.1	18
ZZ57907		0.22	0.007	0.54	0.96	125.0	<0.2	<10	750	0.73	0.18	0.96	1.27	13.35	9.2	19
ZZ57908		0.19	0.008	0.58	0.93	82.6	<0.2	<10	790	0.67	0.17	0.88	1.13	12.55	7.6	20
ZZ57909		0.19	0.007	0.61	0.67	228	<0.2	10	550	0.52	0.16	1.33	1.28	10.85	7.7	16
ZZ57910		0.21	0.005	0.42	0.84	45.6	<0.2	10	430	0.57	0.16	1.34	1.54	13.65	9.6	18



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57871		0.91	32.6	5.28	7.65	<0.05	0.03	0.04	0.040	0.04	11.2	44.1	0.68	257	0.78	0.01
ZZ57872		1.38	19.5	3.68	7.40	<0.05	0.03	0.04	0.039	0.04	13.1	28.2	0.39	459	1.21	0.01
ZZ57873		0.95	22.2	5.05	8.13	<0.05	<0.02	0.06	0.026	0.05	9.9	14.9	0.32	412	1.25	0.01
ZZ57874		1.44	69.0	4.04	5.75	0.05	0.07	0.07	0.034	0.09	7.8	35.7	0.72	1300	0.94	0.01
ZZ57875		1.00	38.2	4.69	4.23	<0.05	0.05	0.06	0.035	0.04	7.2	62.5	0.78	443	0.65	0.01
ZZ57876		0.88	17.9	4.07	4.81	<0.05	0.03	0.04	0.025	0.04	10.3	44.6	0.47	270	0.85	0.01
ZZ57877		1.51	16.3	4.09	6.06	<0.05	0.02	0.04	0.034	0.05	10.3	44.1	0.47	811	0.85	0.01
ZZ57878		1.16	34.5	3.50	3.59	<0.05	0.06	0.12	0.027	0.07	7.2	28.1	0.54	893	1.25	0.01
ZZ57879		0.75	36.9	3.30	2.93	<0.05	0.05	0.63	0.027	0.09	6.5	13.1	0.85	496	1.88	0.01
ZZ57880		0.69	34.6	3.59	3.01	<0.05	0.04	0.36	0.027	0.09	7.2	13.3	0.60	763	1.81	0.01
ZZ57881		0.61	38.5	3.61	3.70	<0.05	0.06	0.28	0.033	0.09	7.9	17.2	0.43	410	1.62	0.01
ZZ57882		0.83	48.4	4.10	3.45	0.05	0.04	0.35	0.035	0.10	8.4	16.0	0.98	947	2.06	0.01
ZZ57883		0.67	47.8	4.18	3.15	<0.05	0.04	0.48	0.039	0.09	9.2	15.2	1.12	1020	1.97	0.01
ZZ57884		0.77	48.1	2.55	2.27	<0.05	0.04	0.22	0.030	0.07	5.3	9.0	0.24	2400	5.82	0.01
ZZ57885		0.71	54.7	2.80	2.69	<0.05	0.04	0.27	0.034	0.06	5.4	10.0	0.27	583	4.73	0.01
ZZ57886		0.67	30.9	2.99	2.15	<0.05	0.04	0.15	0.032	0.07	3.8	10.0	0.22	637	5.31	0.01
ZZ57887		0.54	29.9	2.92	2.86	<0.05	0.04	0.19	0.030	0.06	5.6	13.0	0.31	1020	2.55	0.01
ZZ57888		0.65	34.1	3.21	3.57	0.05	0.05	0.32	0.029	0.09	8.0	16.5	0.42	614	1.90	0.01
ZZ57889		0.56	26.6	3.16	3.54	<0.05	0.05	0.22	0.027	0.06	7.9	16.5	0.36	444	1.38	0.01
ZZ57890		0.77	35.6	2.05	3.93	<0.05	0.06	0.28	0.033	0.09	8.0	18.1	0.38	657	1.06	0.01
ZZ57891		0.68	42.9	3.93	4.56	<0.05	0.07	0.23	0.036	0.10	8.5	24.4	0.58	631	2.27	0.01
ZZ57892		0.53	33.7	2.65	3.50	<0.05	0.04	0.21	0.027	0.07	7.1	17.9	0.44	840	1.89	0.01
ZZ57893		2.04	39.2	2.16	2.53	<0.05	0.05	0.25	0.032	0.08	6.7	12.5	0.50	172	3.97	0.01
ZZ57894		1.16	36.8	2.59	2.51	<0.05	0.05	0.22	0.029	0.08	6.5	12.0	0.32	325	2.88	0.01
ZZ57895		0.65	23.8	2.48	3.29	<0.05	0.04	0.19	0.032	0.07	6.1	16.8	0.36	490	1.04	0.01
ZZ57896		1.23	39.9	2.80	3.67	<0.05	0.06	0.25	0.034	0.08	7.2	18.5	0.38	332	1.95	0.01
ZZ57897		1.38	33.8	2.26	2.41	<0.05	0.06	0.23	0.024	0.09	5.7	11.9	0.37	456	2.64	0.01
ZZ57898		0.97	36.7	2.61	2.58	<0.05	0.05	0.23	0.029	0.07	6.3	12.7	0.50	461	3.18	0.01
ZZ57899		1.00	32.2	2.85	2.97	<0.05	0.05	0.21	0.028	0.09	5.7	17.1	0.42	533	2.10	0.01
ZZ57900		0.92	34.0	3.21	3.42	<0.05	0.06	0.14	0.028	0.09	6.3	19.8	0.73	246	2.76	0.01
ZZ57901		0.73	38.4	3.38	2.46	<0.05	0.05	0.16	0.027	0.08	6.9	12.8	0.50	278	5.86	0.01
ZZ57902		0.82	44.2	3.14	3.47	<0.05	0.06	0.20	0.036	0.10	8.1	18.4	0.44	362	4.48	0.01
ZZ57903		0.80	29.5	3.00	2.64	0.05	0.05	0.15	0.026	0.08	6.3	14.5	1.53	616	4.73	0.01
ZZ57904		0.80	41.2	2.46	2.91	0.05	0.06	0.19	0.029	0.08	7.1	15.4	0.37	1530	7.72	0.01
ZZ57905		0.78	30.7	2.80	2.65	<0.05	0.04	0.16	0.030	0.07	6.3	13.9	0.34	352	5.28	0.01
ZZ57906		1.42	38.9	1.83	2.51	<0.05	0.04	0.25	0.029	0.08	6.1	12.2	0.32	98	2.58	0.01
ZZ57907		1.53	36.8	2.42	2.82	0.05	0.08	0.26	0.033	0.06	6.7	11.9	0.27	511	5.39	<0.01
ZZ57908		1.30	32.0	2.58	2.60	<0.05	0.07	0.31	0.030	0.06	6.4	10.9	0.26	316	5.90	<0.01
ZZ57909		2.02	34.1	2.34	2.02	0.05	0.06	0.27	0.028	0.07	5.5	9.5	0.41	218	3.06	<0.01
ZZ57910		0.75	28.1	2.35	2.54	0.05	0.06	0.26	0.021	0.07	7.3	12.7	0.36	590	2.15	0.01



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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57871		0.36	18.9	350	11.8	5.4	<0.001	<0.01	0.32	4.1	<0.2	0.6	4.8	<0.01	0.08	2.9
ZZ57872		0.95	15.1	270	17.1	7.5	<0.001	0.01	0.46	4.1	0.4	0.9	11.2	<0.01	0.05	4.3
ZZ57873		0.64	12.8	950	11.8	11.1	<0.001	0.01	0.54	2.4	0.3	0.7	5.5	<0.01	0.07	1.9
ZZ57874		0.35	24.4	1330	14.0	10.4	<0.001	0.07	0.30	4.8	1.9	0.4	85.9	<0.01	0.06	1.3
ZZ57875		0.13	26.1	500	14.9	6.6	<0.001	0.01	0.51	2.9	0.4	0.2	6.8	<0.01	0.04	4.1
ZZ57876		0.37	16.9	380	14.0	8.6	<0.001	<0.01	0.56	2.0	0.2	0.3	4.7	<0.01	0.05	4.1
ZZ57877		0.50	18.3	640	12.9	11.9	<0.001	0.01	0.39	3.1	0.4	0.5	10.0	<0.01	0.03	3.1
ZZ57878		0.19	26.2	840	16.9	7.1	<0.001	0.05	0.59	3.8	0.9	0.3	31.8	<0.01	0.05	2.3
ZZ57879		0.39	30.1	750	17.8	6.3	0.001	0.04	0.98	4.3	1.0	0.4	38.0	<0.01	0.04	1.9
ZZ57880		0.40	29.4	700	17.7	6.4	<0.001	0.04	0.78	4.6	1.0	0.4	32.8	<0.01	0.05	2.1
ZZ57881		0.48	29.7	450	17.4	6.3	<0.001	0.04	0.81	5.0	1.0	0.5	28.3	<0.01	0.05	2.2
ZZ57882		0.39	40.5	850	21.7	6.9	<0.001	0.02	0.80	6.6	1.5	0.5	34.6	<0.01	0.05	4.1
ZZ57883		0.52	37.1	700	23.1	6.2	0.001	0.02	0.74	7.2	1.2	0.4	31.0	<0.01	0.02	3.9
ZZ57884		0.35	79.0	1030	14.0	5.8	0.019	0.11	1.78	4.2	3.4	0.4	100.5	<0.01	0.04	1.3
ZZ57885		0.37	61.2	1000	14.6	5.7	0.014	0.12	1.43	4.7	3.1	0.5	95.7	<0.01	0.05	1.3
ZZ57886		0.29	52.3	840	12.2	6.3	0.017	0.08	1.07	3.5	2.1	0.4	72.5	<0.01	0.05	1.3
ZZ57887		0.48	30.6	870	12.2	6.2	0.003	0.11	0.80	3.4	1.9	0.4	56.1	<0.01	0.05	1.1
ZZ57888		0.56	32.3	800	15.8	7.0	0.001	0.05	0.80	4.3	1.5	0.5	39.6	<0.01	0.04	2.1
ZZ57889		0.76	26.6	830	15.3	6.9	0.006	0.12	0.71	4.3	2.8	0.4	39.5	<0.01	0.03	2.2
ZZ57890		0.63	28.5	720	16.7	8.4	0.005	0.08	0.82	5.0	2.4	0.5	46.0	<0.01	0.04	3.1
ZZ57891		0.50	39.4	800	17.7	7.2	0.003	0.06	0.84	5.7	1.5	0.5	41.6	<0.01	0.07	2.9
ZZ57892		0.44	32.8	800	13.0	6.0	0.004	0.07	0.80	4.3	1.6	0.4	38.2	<0.01	0.04	2.0
ZZ57893		0.38	46.1	930	15.2	8.4	0.008	0.33	1.41	4.2	4.6	0.4	45.6	<0.01	0.04	2.1
ZZ57894		0.34	38.2	950	14.5	7.4	0.010	0.11	1.16	3.8	3.3	0.4	43.0	<0.01	0.03	1.9
ZZ57895		0.48	24.5	900	12.9	7.4	0.005	0.10	0.68	3.5	2.2	0.4	40.8	<0.01	0.04	1.5
ZZ57896		0.49	33.8	900	16.9	8.9	0.004	0.13	0.80	5.0	3.1	0.4	42.7	<0.01	0.04	2.6
ZZ57897		0.36	35.0	950	13.8	9.4	0.011	0.15	1.13	3.5	3.4	0.4	58.9	<0.01	0.03	1.7
ZZ57898		0.33	37.0	940	16.3	6.2	0.004	0.08	1.20	4.0	2.5	0.4	44.8	<0.01	0.05	1.9
ZZ57899		0.39	30.4	820	15.3	8.2	0.007	0.15	0.70	4.1	2.9	0.4	47.2	<0.01	0.03	2.3
ZZ57900		0.44	30.4	700	16.6	7.5	0.011	0.20	0.59	4.9	5.0	0.4	33.8	<0.01	0.03	3.4
ZZ57901		0.28	41.0	1190	13.7	6.1	0.008	0.10	1.43	4.1	4.3	0.4	48.5	<0.01	0.06	2.0
ZZ57902		0.39	53.2	1150	14.7	8.3	0.005	0.06	1.06	5.2	3.9	0.4	39.1	<0.01	0.05	2.6
ZZ57903		0.29	46.9	1140	10.8	7.4	0.002	0.07	1.07	4.0	1.9	0.3	47.9	<0.01	0.05	2.0
ZZ57904		0.35	42.3	1030	13.1	8.3	0.021	0.18	1.46	4.3	8.0	0.4	50.6	<0.01	0.04	1.8
ZZ57905		0.32	33.1	980	12.3	6.2	0.005	0.08	1.02	3.6	2.8	0.3	42.0	<0.01	0.04	1.9
ZZ57906		0.38	33.4	840	14.8	7.5	0.008	0.21	1.08	3.8	3.6	0.5	46.9	<0.01	0.06	2.0
ZZ57907		0.30	39.3	1030	17.5	8.4	0.005	0.09	1.37	4.2	3.7	0.4	52.4	<0.01	0.05	1.4
ZZ57908		0.31	33.9	1070	17.4	6.9	0.005	0.08	1.50	3.9	3.2	0.4	49.8	<0.01	0.03	1.6
ZZ57909		0.27	38.3	890	17.4	7.9	0.006	0.11	1.42	3.5	2.6	0.4	59.9	<0.01	0.05	1.6
ZZ57910		0.45	38.0	880	14.5	8.1	0.018	0.23	1.02	3.8	5.0	0.4	55.6	<0.01	0.04	2.1

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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57871		0.006	0.11	0.29	71	0.06	2.55	51	1.4
ZZ57872		0.016	0.16	0.60	74	0.21	5.04	51	1.3
ZZ57873		0.012	0.10	0.32	65	0.13	1.70	55	<0.5
ZZ57874		0.008	0.06	7.03	50	0.06	8.17	68	1.4
ZZ57875		<0.005	0.04	0.47	22	<0.05	2.83	91	2.0
ZZ57876		0.006	0.07	0.34	30	0.07	1.86	60	1.7
ZZ57877		0.008	0.09	0.80	40	0.09	4.50	82	0.9
ZZ57878		<0.005	0.11	0.88	34	0.05	8.09	111	1.5
ZZ57879		0.007	0.32	0.90	45	0.28	10.30	163	1.3
ZZ57880		0.008	0.19	0.88	46	0.09	10.90	161	1.2
ZZ57881		0.007	0.17	0.69	43	0.08	13.25	133	1.6
ZZ57882		0.008	0.28	0.93	47	0.08	13.95	185	1.6
ZZ57883		0.009	0.21	1.15	48	0.06	16.55	186	1.7
ZZ57884		<0.005	0.32	4.75	107	0.07	14.45	368	1.4
ZZ57885		<0.005	0.26	4.39	93	0.05	14.95	308	1.6
ZZ57886		<0.005	0.18	2.26	73	0.06	9.37	320	1.1
ZZ57887		0.005	0.14	2.23	59	<0.05	10.90	163	1.2
ZZ57888		0.009	0.15	1.23	49	0.09	10.55	137	1.5
ZZ57889		0.007	0.14	2.24	51	0.11	10.00	144	1.7
ZZ57890		0.006	0.17	2.65	61	0.07	10.90	170	1.9
ZZ57891		0.006	0.14	1.73	60	0.08	11.00	160	2.3
ZZ57892		0.005	0.16	2.13	68	0.07	11.30	161	1.4
ZZ57893		0.007	0.52	2.26	66	0.12	12.75	270	1.9
ZZ57894		0.006	0.37	1.51	62	0.09	10.95	226	1.4
ZZ57895		0.005	0.19	0.85	49	0.10	8.30	165	1.4
ZZ57896		0.006	0.25	1.67	52	0.08	11.90	179	2.0
ZZ57897		0.006	0.43	1.74	49	0.10	9.97	220	1.8
ZZ57898		0.006	0.27	1.28	53	0.08	12.20	191	1.6
ZZ57899		0.006	0.26	1.56	39	0.07	9.23	160	1.9
ZZ57900		0.007	0.12	1.56	41	0.06	9.69	167	2.2
ZZ57901		0.006	0.33	1.72	68	0.05	10.25	235	1.5
ZZ57902		0.007	0.30	1.92	63	0.09	11.30	337	1.8
ZZ57903		0.006	0.34	1.51	56	0.06	9.68	312	1.5
ZZ57904		0.006	0.31	3.83	59	0.05	11.55	233	1.9
ZZ57905		0.006	0.25	2.43	55	0.07	9.31	196	1.5
ZZ57906		0.006	0.45	1.96	53	0.10	11.90	191	1.7
ZZ57907		<0.005	0.36	3.54	58	0.09	13.45	170	1.9
ZZ57908		0.005	0.33	3.04	65	0.09	11.70	182	1.6
ZZ57909		0.005	0.45	1.36	49	0.10	12.50	209	1.8
ZZ57910		0.007	0.21	1.56	48	0.07	12.85	189	1.6



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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57911		0.21	0.018	0.67	0.71	62.3	<0.2	10	510	0.59	0.15	2.10	2.04	12.10	9.0	18
ZZ57912		0.28	0.006	0.50	0.67	75.4	<0.2	10	380	0.53	0.13	3.69	1.96	12.85	7.7	18
ZZ57913		0.28	0.010	0.90	0.73	79.8	<0.2	<10	730	0.65	0.16	1.56	2.27	14.25	8.7	19
ZZ57914		0.20	0.003	0.11	0.39	59.3	<0.2	<10	240	0.21	0.12	0.17	0.63	7.19	2.6	12
ZZ57915		0.23	0.006	0.36	0.93	105.5	<0.2	<10	660	0.78	0.19	0.26	1.85	17.30	10.4	22
ZZ57916		0.18	0.004	0.19	0.99	104.5	<0.2	<10	630	0.62	0.17	0.86	0.54	13.45	7.2	20
ZZ57917		0.21	0.005	0.53	0.73	83.6	<0.2	<10	330	0.42	0.13	1.22	0.74	10.65	6.9	16
ZZ57918		0.13	0.011	0.27	0.70	43.3	<0.2	<10	400	0.39	0.11	2.40	1.27	7.46	5.0	13
ZZ57919		0.14	0.007	0.39	0.84	60.9	<0.2	<10	370	0.53	0.16	1.49	0.94	14.50	8.8	17
ZZ57920		0.19	0.001	0.05	1.28	55.9	<0.2	<10	170	0.48	0.21	0.12	0.45	12.45	7.8	21
ZZ57921		0.15	0.002	0.10	1.15	24.1	<0.2	<10	440	0.62	0.16	1.11	0.85	14.00	8.5	20
ZZ57922		0.24	0.001	0.08	0.92	17.9	<0.2	<10	320	0.39	0.16	0.25	1.82	14.00	6.9	16
ZZ57923		0.19	0.036	0.54	0.56	72.6	<0.2	10	480	0.50	0.13	1.91	3.25	11.30	8.1	15
ZZ57924		0.19	0.002	0.04	1.45	30.9	<0.2	<10	200	0.62	0.17	0.26	0.44	13.45	10.1	23
ZZ57925		0.21	0.004	0.22	0.94	8.6	<0.2	<10	680	0.49	0.14	2.02	1.42	15.75	6.7	18
ZZ57926		0.19	0.006	0.36	1.50	46.3	<0.2	<10	450	1.06	0.19	1.18	0.99	25.6	8.4	28
ZZ57927		0.16	0.003	0.25	0.95	26.0	<0.2	<10	400	0.62	0.14	1.60	0.63	13.45	9.2	17
ZZ57928		0.14	0.004	0.27	0.86	24.6	<0.2	<10	430	0.52	0.14	2.03	0.87	12.25	7.7	16
ZZ57929		0.14	0.005	0.26	0.91	24.8	<0.2	<10	530	0.60	0.14	2.21	0.92	13.15	11.5	17
ZZ57930		0.19	0.004	0.35	1.01	27.4	<0.2	<10	750	0.68	0.20	1.99	0.95	13.90	11.0	18
ZZ57931		0.22	0.002	0.26	0.95	25.5	<0.2	<10	550	0.56	0.16	1.60	0.77	12.75	7.9	18
ZZ57932		0.18	0.004	0.25	1.07	24.3	<0.2	<10	450	0.48	0.14	1.03	0.52	12.70	6.3	20
ZZ57933		0.24	<0.001	0.16	1.02	25.3	<0.2	<10	390	0.46	0.15	0.38	1.19	14.40	6.4	19
ZZ57934		0.17	0.006	0.25	0.84	22.8	<0.2	<10	700	0.53	0.14	2.09	0.99	13.25	8.3	17
ZZ57935		0.19	0.006	0.25	0.86	25.7	<0.2	<10	860	0.58	0.13	2.22	0.76	13.00	8.9	15
ZZ57936		0.21	0.002	0.17	0.93	25.4	<0.2	<10	580	0.51	0.13	2.07	0.60	11.50	8.2	17
ZZ57937		0.19	0.006	0.42	1.02	44.6	<0.2	<10	870	0.66	0.15	2.78	0.86	15.65	9.0	19
ZZ57938		0.23	0.002	0.09	1.35	27.8	<0.2	<10	420	0.46	0.21	0.52	0.31	13.90	8.8	22
ZZ57939		0.14	0.005	0.18	0.86	23.1	<0.2	<10	720	0.47	0.12	2.80	0.86	10.05	7.8	15
ZZ57940		0.16	0.003	0.30	1.03	56.0	<0.2	<10	640	0.65	0.16	2.25	1.23	13.50	10.8	19
ZZ57941		0.13	0.003	0.28	1.25	39.4	<0.2	<10	580	0.74	0.18	1.65	0.99	14.35	9.4	21
ZZ57942		0.20	0.001	0.06	1.36	83.5	<0.2	<10	320	0.52	0.16	0.53	0.61	10.15	7.2	25
ZZ57943		0.12	0.006	0.33	1.70	110.5	<0.2	<10	220	1.53	0.22	4.37	2.60	24.7	6.7	29
ZZ57944		0.22	0.003	0.15	1.86	34.8	<0.2	<10	200	1.37	0.28	0.57	0.43	39.7	12.0	35
ZZ57945		0.15	0.001	0.41	1.65	55.1	<0.2	<10	180	1.30	0.26	3.39	1.50	28.2	8.8	29
ZZ57946		0.22	0.017	0.56	1.21	43.7	<0.2	<10	1350	0.85	0.20	1.84	2.84	13.40	10.9	21
ZZ57947		0.17	0.005	0.40	1.37	42.1	<0.2	<10	1100	0.73	0.22	1.25	0.90	16.25	8.9	25
ZZ57948		0.19	0.008	0.53	1.30	138.0	<0.2	<10	1180	0.98	0.21	2.13	1.23	14.95	9.8	23
ZZ57949		0.15	0.003	0.48	1.73	68.0	<0.2	<10	520	1.09	0.28	1.32	1.70	26.6	11.2	30
ZZ57950		0.19	0.001	0.49	1.80	45.2	<0.2	<10	920	0.95	0.27	1.35	0.56	19.65	9.8	28

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57911		1.23	29.8	2.58	2.13	0.06	0.06	0.35	0.029	0.08	6.2	10.7	0.69	712	2.94	0.01
ZZ57912		1.18	30.8	2.62	2.02	0.05	0.06	0.38	0.028	0.08	6.7	10.5	1.37	191	2.26	0.01
ZZ57913		1.19	39.7	2.50	2.37	0.05	0.06	0.39	0.032	0.08	7.4	10.1	0.61	453	3.57	<0.01
ZZ57914		1.12	13.3	1.42	1.85	<0.05	0.02	0.34	0.017	0.06	3.6	1.9	0.04	65	3.15	<0.01
ZZ57915		0.97	37.5	2.92	2.63	0.05	0.06	0.49	0.031	0.08	8.8	10.6	0.21	386	4.38	<0.01
ZZ57916		1.18	25.9	2.80	3.11	0.05	0.04	0.77	0.033	0.05	6.5	10.6	0.28	314	3.15	<0.01
ZZ57917		0.95	16.6	2.57	2.33	<0.05	0.04	0.30	0.028	0.06	4.9	8.9	0.23	282	3.44	<0.01
ZZ57918		0.60	12.4	1.79	2.02	<0.05	0.04	0.44	0.020	0.05	4.0	5.2	0.25	297	1.71	0.01
ZZ57919		1.02	25.0	2.61	2.55	0.05	0.07	0.31	0.023	0.07	7.0	11.0	0.30	416	3.20	0.01
ZZ57920		1.15	20.0	2.99	4.59	<0.05	0.04	0.11	0.035	0.08	5.8	14.5	0.18	312	3.10	<0.01
ZZ57921		0.69	24.7	2.95	3.48	<0.05	0.04	0.16	0.027	0.04	7.3	11.5	0.24	365	2.12	<0.01
ZZ57922		0.59	16.3	2.28	3.63	<0.05	0.02	0.06	0.023	0.05	7.4	8.3	0.10	472	5.28	<0.01
ZZ57923		1.28	32.0	2.13	1.77	<0.05	0.06	0.32	0.025	0.08	5.2	7.2	0.66	475	3.79	0.01
ZZ57924		1.03	21.6	3.33	3.88	<0.05	0.04	0.15	0.034	0.04	6.2	18.5	0.33	330	1.91	<0.01
ZZ57925		0.54	31.7	1.85	2.83	<0.05	0.06	0.21	0.022	0.05	7.5	14.0	0.34	207	0.56	0.01
ZZ57926		0.69	24.9	3.44	3.95	0.07	0.07	0.19	0.039	0.06	18.7	15.3	0.43	554	3.15	<0.01
ZZ57927		0.63	20.7	2.54	2.88	<0.05	0.05	0.24	0.027	0.05	6.5	13.7	0.34	637	1.37	<0.01
ZZ57928		0.51	23.6	2.41	2.64	<0.05	0.04	0.20	0.029	0.05	6.3	12.7	0.32	346	1.61	0.01
ZZ57929		0.50	26.4	2.68	2.65	<0.05	0.05	0.37	0.026	0.05	6.7	12.9	0.37	580	1.16	0.01
ZZ57930		0.56	33.3	2.77	3.19	<0.05	0.05	0.46	0.034	0.06	7.3	13.6	0.34	885	2.08	0.01
ZZ57931		0.53	24.9	2.67	2.56	<0.05	0.04	0.18	0.023	0.05	6.2	12.4	0.35	324	2.07	<0.01
ZZ57932		0.62	18.6	2.54	2.92	<0.05	0.04	0.12	0.023	0.05	6.6	11.5	0.31	254	2.40	0.01
ZZ57933		0.98	14.1	2.27	3.45	<0.05	0.02	0.10	0.026	0.07	6.8	13.2	0.20	353	2.14	<0.01
ZZ57934		0.48	22.2	2.27	2.52	<0.05	0.04	0.24	0.025	0.05	6.5	12.2	0.40	506	1.36	0.01
ZZ57935		0.45	25.3	2.32	2.58	<0.05	0.04	0.18	0.024	0.05	6.2	11.3	0.35	781	1.78	0.01
ZZ57936		0.56	21.7	2.52	2.53	<0.05	0.06	0.19	0.024	0.06	5.6	12.3	0.59	392	1.27	0.01
ZZ57937		0.59	24.9	2.73	2.85	0.05	0.04	0.41	0.026	0.05	7.3	12.1	1.02	449	2.13	0.01
ZZ57938		0.67	13.5	3.13	4.20	<0.05	0.03	0.08	0.024	0.05	6.5	14.6	0.29	406	1.76	<0.01
ZZ57939		0.46	24.1	2.20	2.39	<0.05	0.04	0.25	0.028	0.05	5.0	10.7	0.47	407	1.32	0.01
ZZ57940		0.68	26.4	3.05	2.87	<0.05	0.05	0.36	0.030	0.07	6.8	12.5	0.83	1200	2.01	0.01
ZZ57941		0.52	25.1	2.87	3.31	<0.05	0.06	0.30	0.029	0.05	7.2	12.3	0.39	469	1.43	0.01
ZZ57942		0.82	14.0	3.04	3.97	<0.05	0.03	0.07	0.034	0.05	5.1	16.9	0.34	270	2.36	<0.01
ZZ57943		0.81	15.2	2.93	4.20	0.05	0.05	0.78	0.038	0.05	14.8	10.2	1.88	393	1.84	<0.01
ZZ57944		1.05	13.2	3.41	6.47	0.05	0.11	0.14	0.038	0.05	18.7	16.3	0.69	367	1.41	<0.01
ZZ57945		0.89	11.8	3.00	4.77	0.05	0.06	0.32	0.031	0.06	12.5	14.5	1.78	462	1.32	<0.01
ZZ57946		0.86	36.3	2.69	3.73	<0.05	0.07	0.34	0.032	0.07	5.9	11.0	0.41	655	2.56	<0.01
ZZ57947		0.94	25.4	2.74	3.92	<0.05	0.04	0.27	0.027	0.07	7.7	12.1	0.42	390	1.62	<0.01
ZZ57948		0.83	39.3	2.58	3.61	<0.05	0.05	8.14	0.031	0.07	6.9	11.9	0.53	565	1.53	<0.01
ZZ57949		0.97	25.6	3.05	5.21	<0.05	0.03	0.42	0.032	0.06	12.9	12.7	0.62	624	1.10	<0.01
ZZ57950		1.29	31.0	3.12	5.28	<0.05	0.04	0.24	0.037	0.07	9.3	12.5	0.48	517	1.23	<0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ57911	0.34	36.6	950	18.2	8.5	0.017	0.19	1.39	3.7	6.4	0.4	63.7	<0.01	0.06	2.0	
ZZ57912	0.27	30.8	910	17.9	7.5	0.009	0.18	1.19	4.1	5.1	0.4	73.9	<0.01	0.05	2.0	
ZZ57913	0.32	48.2	1070	20.2	7.3	0.007	0.07	1.85	4.4	2.6	0.4	55.4	<0.01	0.07	2.3	
ZZ57914	0.28	16.0	300	13.0	6.8	0.001	0.02	1.17	1.5	1.2	0.4	20.7	<0.01	0.05	1.3	
ZZ57915	0.29	39.7	980	22.1	7.5	0.002	0.03	1.86	5.0	2.8	0.4	39.4	<0.01	0.09	2.7	
ZZ57916	0.32	24.7	700	22.0	7.6	0.002	0.05	1.34	3.7	1.9	0.5	40.5	<0.01	0.03	1.7	
ZZ57917	0.31	23.0	860	16.6	6.5	0.001	0.05	1.38	2.9	2.1	0.4	48.1	<0.01	0.05	1.4	
ZZ57918	0.34	16.3	650	11.8	7.0	0.003	0.12	0.83	1.9	1.6	0.3	66.3	<0.01	0.02	0.5	
ZZ57919	0.46	29.0	950	17.4	6.7	0.006	0.08	1.31	3.2	2.2	0.4	52.3	<0.01	0.05	1.5	
ZZ57920	0.61	24.1	310	18.7	14.4	<0.001	0.02	1.12	3.2	0.6	0.6	9.7	<0.01	0.05	2.3	
ZZ57921	0.79	26.6	460	14.7	5.7	<0.001	0.05	1.04	3.9	0.9	0.4	26.2	<0.01	0.05	1.8	
ZZ57922	0.57	27.6	220	11.1	9.1	0.001	0.02	1.52	2.3	0.6	0.6	8.5	<0.01	0.04	2.0	
ZZ57923	0.29	39.2	960	15.4	7.4	0.008	0.10	1.61	3.5	2.3	0.4	58.7	<0.01	0.07	1.7	
ZZ57924	0.87	27.2	310	16.0	9.2	0.001	0.01	0.83	3.5	0.3	0.5	12.5	<0.01	0.05	2.6	
ZZ57925	0.88	24.6	720	12.6	6.2	0.007	0.11	1.15	3.3	2.2	0.4	47.2	<0.01	0.03	1.6	
ZZ57926	0.63	35.3	530	18.9	8.1	0.001	0.03	1.32	8.3	2.0	0.5	31.5	<0.01	0.05	3.0	
ZZ57927	0.65	24.1	700	13.8	6.8	0.003	0.07	0.78	3.3	1.4	0.4	47.0	<0.01	0.04	1.1	
ZZ57928	0.64	24.1	630	13.1	6.1	0.004	0.08	0.96	3.0	1.4	0.4	53.8	<0.01	0.02	1.0	
ZZ57929	0.60	25.6	780	14.2	6.4	0.008	0.10	0.77	3.2	1.9	0.4	59.4	<0.01	<0.01	1.0	
ZZ57930	0.62	32.1	660	14.5	7.0	0.002	0.07	1.11	4.0	1.8	0.4	57.0	<0.01	0.07	1.4	
ZZ57931	0.60	28.2	740	13.4	5.1	<0.001	0.05	1.22	3.1	0.7	0.4	42.0	<0.01	0.04	1.2	
ZZ57932	0.67	24.7	550	12.1	6.9	0.001	0.03	1.25	2.9	1.1	0.4	29.7	<0.01	0.03	1.9	
ZZ57933	0.58	18.2	550	15.1	10.5	<0.001	0.03	0.71	2.4	0.9	0.5	23.0	<0.01	0.05	1.6	
ZZ57934	0.61	25.3	790	12.3	5.7	0.004	0.08	0.88	3.0	1.5	0.3	54.8	<0.01	0.03	1.1	
ZZ57935	0.71	26.3	770	12.2	4.9	0.003	0.08	1.10	2.6	1.5	0.3	58.8	<0.01	0.03	0.7	
ZZ57936	0.57	24.9	650	12.8	6.4	0.002	0.06	0.81	3.1	0.8	0.3	39.3	<0.01	0.02	1.5	
ZZ57937	0.46	28.0	580	19.2	6.2	0.001	0.06	1.08	3.9	1.0	0.4	44.0	<0.01	0.04	1.2	
ZZ57938	0.71	18.0	350	16.4	7.8	0.001	0.02	0.55	3.0	0.4	0.5	18.5	<0.01	0.03	2.5	
ZZ57939	0.52	23.5	760	11.7	5.7	0.003	0.10	0.85	2.1	1.2	0.3	49.0	<0.01	0.03	0.7	
ZZ57940	0.45	34.5	790	17.5	7.9	0.004	0.07	1.09	3.5	1.5	0.4	32.3	<0.01	0.03	1.4	
ZZ57941	0.53	29.8	710	18.3	7.4	0.001	0.06	0.94	3.2	0.7	0.4	27.1	<0.01	0.04	1.2	
ZZ57942	0.47	27.1	290	18.0	10.6	<0.001	0.02	0.90	3.2	0.2	0.5	13.8	<0.01	0.06	2.0	
ZZ57943	0.88	23.4	1120	61.9	8.8	0.001	0.08	1.54	3.5	1.0	0.6	33.0	<0.01	0.05	1.1	
ZZ57944	1.17	24.7	130	24.0	9.4	<0.001	0.01	0.74	6.8	0.7	0.7	13.6	<0.01	0.02	6.0	
ZZ57945	1.07	20.6	690	45.1	9.2	<0.001	0.05	0.94	3.7	0.7	0.6	32.0	<0.01	0.03	1.6	
ZZ57946	0.65	32.6	910	18.1	7.7	<0.001	0.08	1.01	3.6	1.7	0.5	43.6	<0.01	0.10	1.0	
ZZ57947	0.58	27.9	790	15.2	8.3	<0.001	0.06	0.84	3.4	1.1	0.5	26.3	<0.01	0.01	1.3	
ZZ57948	0.51	36.0	790	53.6	6.8	0.001	0.08	1.24	3.3	1.4	0.5	24.7	<0.01	0.05	1.0	
ZZ57949	0.82	30.3	680	33.1	8.6	<0.001	0.04	0.94	3.4	0.9	0.6	18.6	<0.01	0.02	1.0	
ZZ57950	0.65	29.7	710	18.0	9.8	<0.001	0.04	0.66	4.1	1.0	0.6	20.1	<0.01	0.02	1.2	

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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57911		0.006	0.33	2.07	53	0.06	13.70	227	1.8
ZZ57912		0.005	0.26	1.70	51	0.10	14.25	186	1.7
ZZ57913		0.006	0.39	1.94	60	0.15	16.80	248	1.7
ZZ57914		0.006	0.23	0.83	59	0.08	2.48	115	<0.5
ZZ57915		0.006	0.33	1.93	76	0.11	19.35	267	1.2
ZZ57916		<0.005	0.31	1.76	70	0.08	10.95	157	1.2
ZZ57917		0.005	0.27	1.33	56	0.07	7.54	186	1.0
ZZ57918		0.006	0.15	3.07	45	0.06	7.49	141	1.1
ZZ57919		0.010	0.28	3.68	53	0.10	10.95	179	1.4
ZZ57920		<0.005	0.24	0.50	84	0.11	4.15	126	1.1
ZZ57921		0.008	0.14	1.09	68	0.08	10.60	132	1.3
ZZ57922		0.007	0.18	0.61	131	0.09	5.84	168	0.7
ZZ57923		0.005	0.41	2.58	50	0.08	13.00	233	1.9
ZZ57924		0.008	0.18	0.72	56	0.09	4.87	128	1.1
ZZ57925		0.012	0.08	2.78	43	0.10	9.42	125	1.8
ZZ57926		<0.005	0.20	1.98	75	0.09	30.7	154	1.4
ZZ57927		0.007	0.12	1.11	42	0.06	9.70	122	1.2
ZZ57928		0.009	0.11	1.43	40	0.10	9.25	129	1.3
ZZ57929		0.007	0.12	1.29	39	0.05	10.65	127	1.3
ZZ57930		0.008	0.17	1.62	40	0.07	11.95	134	1.3
ZZ57931		0.009	0.14	1.58	47	0.07	9.17	140	1.1
ZZ57932		0.008	0.16	0.93	68	0.08	7.68	130	1.2
ZZ57933		0.008	0.17	0.79	59	0.09	4.66	126	<0.5
ZZ57934		0.008	0.11	1.83	39	0.07	9.82	125	1.3
ZZ57935		0.009	0.09	2.13	37	0.06	9.54	109	1.1
ZZ57936		0.007	0.11	0.79	38	0.06	8.24	140	1.4
ZZ57937		0.008	0.18	1.22	51	0.09	10.50	134	1.1
ZZ57938		0.009	0.12	0.70	59	0.09	3.90	99	0.9
ZZ57939		0.007	0.10	1.73	34	0.05	7.68	144	1.3
ZZ57940		0.006	0.23	1.27	47	0.12	11.25	177	1.3
ZZ57941		0.008	0.16	2.41	49	0.09	10.60	142	1.2
ZZ57942		0.005	0.22	0.73	83	0.11	3.74	159	0.9
ZZ57943		0.011	0.57	2.50	79	0.27	16.10	361	1.6
ZZ57944		0.022	0.25	1.63	71	0.23	12.35	129	4.2
ZZ57945		0.019	0.21	2.06	70	0.27	8.46	200	1.4
ZZ57946		0.008	0.18	2.92	54	0.14	9.90	204	1.9
ZZ57947		0.015	0.17	1.78	54	0.13	6.76	142	1.2
ZZ57948		0.011	0.38	2.29	49	0.21	8.81	188	1.7
ZZ57949		0.025	0.15	2.10	61	0.18	11.00	153	0.9
ZZ57950		0.015	0.15	2.20	61	0.18	7.94	116	1.0



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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57951		0.17	0.003	0.44	1.59	221	<0.2	<10	160	1.60	0.25	7.39	2.07	24.3	8.2	25
ZZ57952		0.14	0.003	0.67	1.89	296	<0.2	<10	190	1.21	0.29	0.79	2.29	28.4	11.4	32
ZZ57953		0.20	0.005	0.62	1.18	172.5	<0.2	<10	110	0.88	0.18	8.93	1.85	18.70	10.1	19
ZZ57954		0.19	0.007	1.98	0.51	54.3	<0.2	<10	1310	0.56	0.16	0.85	3.29	6.03	2.6	32
ZZ57955		0.14	0.009	3.27	0.57	68.6	<0.2	<10	1400	0.74	0.18	1.27	4.28	5.90	4.1	42
ZZ57956		0.15	0.006	1.17	0.45	139.0	<0.2	<10	1170	0.53	0.14	1.92	1.46	4.55	4.9	22
ZZ57957		0.18	0.008	1.95	0.47	43.8	<0.2	<10	1000	0.52	0.17	2.48	1.40	5.23	4.4	21
ZZ57958		0.15	0.008	0.99	0.85	38.6	<0.2	<10	1230	0.45	0.18	0.98	0.67	7.55	5.9	24
ZZ57959		0.14	0.011	0.93	0.42	15.9	<0.2	<10	1040	0.60	0.09	3.26	1.65	5.32	2.5	10
ZZ57960		0.15	0.012	1.16	0.83	48.8	<0.2	<10	850	0.48	0.21	1.01	0.63	10.40	3.5	23
ZZ57961		0.12	0.008	1.96	0.41	53.2	<0.2	<10	1550	0.50	0.16	1.34	2.40	4.96	12.7	22
ZZ57962		0.19	0.004	0.59	0.42	25.4	<0.2	<10	750	0.33	0.23	0.18	0.51	3.92	4.7	12
ZZ57963		0.23	0.005	0.93	0.37	44.1	<0.2	<10	440	0.33	0.20	0.18	0.84	3.63	4.2	17
ZZ57964		0.18	0.007	2.04	0.73	23.7	<0.2	<10	1880	0.89	0.19	0.80	2.24	6.71	9.2	27
ZZ57965		0.19	0.007	2.11	0.66	38.0	<0.2	<10	1650	1.00	0.18	1.68	4.48	7.26	9.9	29
ZZ57966		0.16	0.002	0.34	0.58	23.6	<0.2	<10	1270	0.52	0.18	0.35	1.00	4.02	4.3	32
ZZ57967		0.17	0.005	1.44	0.47	93.8	<0.2	<10	540	0.49	0.15	0.32	0.58	4.70	5.3	25
ZZ57968		0.18	0.017	4.95	0.96	120.5	<0.2	<10	3810	1.67	0.20	0.81	6.88	11.55	10.5	35
ZZ57969		0.15	NSS	0.44	0.22	1.7	<0.2	<10	400	0.17	0.02	1.13	2.35	1.53	1.5	2
ZZ57970		0.09	0.027	2.43	0.79	26.8	<0.2	<10	1690	0.37	0.23	1.17	7.04	6.23	2.0	16
ZZ57971		0.21	0.003	0.53	0.48	16.5	<0.2	<10	320	0.15	0.19	0.02	0.17	9.92	2.0	11
ZZ57972		0.24	0.002	0.84	0.88	20.9	<0.2	<10	310	0.29	0.31	0.03	0.23	14.50	4.4	17
ZZ57973		0.18	0.011	1.48	2.40	80.9	<0.2	<10	2180	0.93	0.27	0.12	0.56	21.6	7.3	38
ZZ57974		0.20	0.013	0.57	0.53	19.1	<0.2	<10	450	0.30	0.27	0.03	0.27	7.93	5.6	14
ZZ57975		0.21	0.008	0.95	0.89	72.0	<0.2	<10	1460	0.77	0.33	0.10	0.59	20.4	10.8	20
ZZ57976		0.20	0.009	2.02	0.94	61.5	<0.2	<10	1610	0.56	0.30	0.18	1.25	15.80	5.1	17
ZZ57977		0.20	0.005	1.59	0.83	17.3	<0.2	<10	910	0.32	0.22	0.15	0.48	11.45	2.4	12
ZZ57978		0.23	0.010	2.00	0.86	39.2	<0.2	<10	1250	0.42	0.28	0.17	1.16	9.25	4.5	18
ZZ57979		0.25	0.007	0.40	0.62	23.8	<0.2	<10	440	0.49	0.23	0.05	1.25	11.65	9.5	11
ZZ57980		0.25	0.009	2.66	0.34	64.6	<0.2	<10	790	0.40	0.32	0.62	3.84	6.36	1.5	13
ZZ57981		0.18	0.001	0.14	1.40	21.5	<0.2	<10	140	0.43	0.32	0.07	0.30	20.7	7.5	22
ZZ57982		0.11	0.018	1.48	1.22	21.2	<0.2	<10	750	1.12	0.23	2.89	6.02	15.90	8.7	47
ZZ57983		0.23	0.003	0.21	1.41	58.8	<0.2	<10	290	1.14	0.36	0.81	0.51	16.60	12.7	27
ZZ57984		0.17	0.004	0.52	0.89	18.2	<0.2	10	220	0.98	0.22	1.79	2.14	15.75	9.8	14
ZZ57985		0.12	0.004	0.25	1.00	12.6	<0.2	10	270	0.82	0.20	1.94	1.09	14.65	10.1	14
ZZ57986		0.12	0.004	0.10	1.38	16.2	<0.2	10	250	1.38	0.22	2.07	0.27	22.1	12.7	22
ZZ57987		0.17	0.011	0.12	1.75	23.3	<0.2	<10	300	1.04	0.30	1.01	0.33	18.15	16.9	26
ZZ57988		0.17	0.003	0.19	1.47	31.0	<0.2	<10	310	1.00	0.28	1.35	0.20	19.95	11.3	24
ZZ57989		0.20	0.001	0.06	1.65	31.3	<0.2	<10	170	0.75	0.36	0.11	0.12	18.70	12.2	24
ZZ57990		0.17	0.003	0.07	1.36	32.4	<0.2	<10	130	0.86	0.33	0.32	0.34	30.8	12.4	22

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ57951		1.03	14.4	2.76	4.75	0.05	0.03	1.35	0.034	0.04	12.9	10.0	3.70	711	1.41	<0.01
ZZ57952		1.49	12.1	3.29	6.00	0.05	0.05	1.94	0.039	0.05	11.9	12.5	0.42	915	1.68	<0.01
ZZ57953		0.83	12.6	2.48	3.18	0.05	0.03	2.64	0.023	0.03	9.2	9.3	5.11	434	1.70	<0.01
ZZ57954		1.69	54.6	1.70	1.81	0.06	0.04	0.50	0.029	0.05	4.0	3.0	0.06	43	6.55	<0.01
ZZ57955		1.89	69.9	2.07	1.95	0.06	0.05	0.62	0.036	0.07	4.5	3.9	0.08	95	10.20	<0.01
ZZ57956		1.02	39.2	5.47	1.33	0.09	0.05	0.43	0.027	0.05	2.7	3.2	0.08	254	6.09	<0.01
ZZ57957		1.57	47.6	1.61	1.53	0.05	0.03	0.65	0.030	0.06	2.9	3.7	0.14	149	4.38	<0.01
ZZ57958		1.32	30.8	1.59	2.79	<0.05	0.05	0.54	0.024	0.04	3.9	6.5	0.14	168	3.90	<0.01
ZZ57959		0.79	48.1	1.09	1.02	0.05	0.04	0.38	0.015	0.03	3.0	1.2	0.07	82	1.36	0.01
ZZ57960		1.31	30.9	2.07	2.96	<0.05	0.03	0.45	0.028	0.04	5.5	6.0	0.10	88	5.05	<0.01
ZZ57961		1.95	49.5	2.26	1.37	0.09	0.04	0.36	0.028	0.06	3.5	2.0	0.06	649	11.90	<0.01
ZZ57962		1.62	41.4	2.03	1.99	<0.05	<0.02	0.09	0.035	0.06	2.0	1.5	0.02	66	8.97	<0.01
ZZ57963		1.76	34.4	2.39	1.54	<0.05	<0.02	0.17	0.026	0.06	1.8	0.9	0.02	57	6.03	<0.01
ZZ57964		1.68	91.9	2.12	1.89	0.07	0.06	0.46	0.031	0.05	3.9	4.6	0.09	276	5.20	<0.01
ZZ57965		1.41	130.0	2.20	1.78	0.09	0.05	0.54	0.032	0.04	4.0	5.2	0.15	705	6.52	<0.01
ZZ57966		1.29	61.5	2.46	1.77	<0.05	0.03	0.13	0.030	0.05	2.4	2.2	0.05	92	6.38	<0.01
ZZ57967		1.22	54.5	2.62	1.72	<0.05	0.02	0.39	0.036	0.04	2.7	1.1	0.03	104	6.95	<0.01
ZZ57968		4.53	229	2.56	2.36	0.10	0.05	1.13	0.055	0.07	6.6	4.1	0.07	325	7.26	<0.01
ZZ57969		0.31	35.9	0.36	0.32	<0.05	<0.02	0.20	0.007	0.01	0.7	0.1	0.10	17	3.70	0.01
ZZ57970		3.53	114.0	1.46	2.69	0.05	0.05	1.28	0.033	0.10	2.9	4.3	0.22	77	3.81	<0.01
ZZ57971		1.83	19.4	1.38	3.62	<0.05	<0.02	0.07	0.020	0.12	4.9	0.9	0.03	30	4.12	<0.01
ZZ57972		2.79	28.7	3.30	5.99	<0.05	<0.02	0.08	0.025	0.08	7.5	3.4	0.10	145	3.61	<0.01
ZZ57973		1.41	36.3	3.45	5.13	0.05	0.06	0.62	0.043	0.07	10.8	16.8	0.31	199	6.97	<0.01
ZZ57974		6.87	45.7	1.98	3.01	<0.05	<0.02	0.08	0.027	0.12	3.7	0.9	0.03	56	4.22	<0.01
ZZ57975		5.55	82.0	3.37	3.64	0.07	<0.02	1.16	0.047	0.12	9.7	13.9	0.22	267	6.30	<0.01
ZZ57976		4.14	50.1	1.93	3.54	0.06	0.03	0.65	0.037	0.11	6.6	10.4	0.19	198	3.41	<0.01
ZZ57977		3.57	31.1	1.98	2.70	<0.05	<0.02	0.43	0.026	0.09	5.0	7.9	0.14	43	2.82	<0.01
ZZ57978		3.57	35.9	2.27	3.37	<0.05	<0.02	0.79	0.031	0.12	4.7	7.0	0.14	222	4.30	<0.01
ZZ57979		3.78	47.2	2.51	2.86	<0.05	<0.02	0.11	0.033	0.10	4.7	1.8	0.04	441	7.06	0.01
ZZ57980		0.95	35.5	1.40	1.46	<0.05	<0.02	0.91	0.042	0.19	4.4	1.2	0.03	26	47.6	0.01
ZZ57981		1.68	23.1	3.06	6.05	<0.05	0.02	0.05	0.030	0.07	9.7	17.4	0.27	229	3.90	<0.01
ZZ57982		1.20	59.3	2.51	3.61	<0.05	0.06	0.40	0.030	0.08	13.3	12.1	0.31	590	5.27	0.01
ZZ57983		1.48	35.3	3.88	5.26	<0.05	0.07	0.49	0.038	0.08	7.0	21.0	0.50	606	1.87	0.01
ZZ57984		1.19	42.4	2.59	2.85	<0.05	0.08	0.16	0.036	0.16	8.1	11.0	0.41	236	5.01	0.01
ZZ57985		0.90	35.6	2.62	3.04	<0.05	0.08	0.11	0.030	0.14	7.4	14.1	0.54	312	3.28	0.01
ZZ57986		0.99	32.4	3.53	3.83	<0.05	0.08	0.15	0.046	0.13	9.4	18.3	0.43	405	0.98	0.01
ZZ57987		1.19	51.1	4.07	5.80	<0.05	0.07	0.13	0.046	0.10	7.6	26.2	0.58	767	1.00	0.01
ZZ57988		0.85	29.4	3.39	4.56	<0.05	0.06	0.28	0.032	0.08	9.6	19.0	0.43	520	0.87	0.01
ZZ57989		1.55	21.7	3.77	5.88	<0.05	0.03	0.05	0.034	0.07	8.4	21.9	0.39	450	0.99	0.01
ZZ57990		1.77	21.6	3.82	5.41	<0.05	0.04	0.11	0.038	0.10	10.1	20.2	0.29	1040	0.83	0.01

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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57951		0.57	27.4	960	37.3	8.8	<0.001	0.06	1.34	3.4	0.8	0.6	39.3	<0.01	0.03	0.8
ZZ57952		0.94	45.7	440	59.4	12.8	<0.001	0.04	1.68	4.9	0.8	0.7	12.1	<0.01	0.02	2.2
ZZ57953		0.41	63.6	690	55.8	7.6	0.001	0.04	1.90	2.7	1.2	0.4	44.0	<0.01	0.04	1.0
ZZ57954		0.12	64.2	1160	15.0	6.9	0.017	0.09	1.69	4.0	8.2	0.5	120.0	<0.01	0.07	0.9
ZZ57955		0.11	78.9	1400	14.8	7.8	0.030	0.14	2.74	5.0	10.5	0.5	162.5	<0.01	0.09	1.1
ZZ57956		0.13	57.0	1760	10.2	5.4	0.064	0.13	1.47	4.1	19.1	0.4	149.5	<0.01	0.07	0.8
ZZ57957		0.17	60.7	800	10.9	6.8	0.012	0.11	1.58	3.7	6.8	0.4	151.0	<0.01	0.06	0.4
ZZ57958		0.28	40.1	1200	10.6	5.2	0.014	0.11	1.24	3.0	7.1	0.5	79.8	<0.01	0.04	0.6
ZZ57959		0.21	71.1	980	5.1	3.3	0.016	0.19	1.64	2.8	9.4	0.3	159.0	<0.01	0.02	0.3
ZZ57960		0.38	39.8	910	12.8	8.1	0.010	0.06	1.18	3.0	4.5	0.5	64.2	<0.01	0.05	1.0
ZZ57961		0.07	83.1	2230	9.7	9.3	0.019	0.16	3.23	3.7	13.5	0.6	146.0	<0.01	0.09	0.6
ZZ57962		0.15	48.9	380	11.2	7.5	0.001	0.02	1.58	4.1	1.8	0.6	22.9	<0.01	0.10	0.6
ZZ57963		0.17	47.7	730	9.9	6.8	0.007	0.07	1.32	4.6	5.8	0.5	28.8	<0.01	0.05	0.8
ZZ57964		0.16	129.0	1350	11.5	8.9	0.007	0.11	1.60	6.1	7.2	0.5	107.5	<0.01	0.04	0.7
ZZ57965		0.23	134.5	1640	9.4	7.7	0.015	0.16	2.42	5.6	10.5	0.5	154.0	<0.01	0.05	0.5
ZZ57966		0.10	73.9	910	8.4	6.3	0.002	0.05	1.33	4.0	5.4	0.6	53.4	<0.01	0.07	0.7
ZZ57967		0.16	73.8	1070	16.6	6.1	0.007	0.07	2.09	3.1	6.3	0.4	47.6	<0.01	0.06	0.4
ZZ57968		0.20	197.0	2890	45.8	11.5	0.009	0.17	3.37	6.6	12.3	0.6	186.0	<0.01	0.06	0.9
ZZ57969		0.06	59.5	660	1.4	0.6	0.001	0.20	3.27	0.8	4.1	0.2	81.8	<0.01	0.01	<0.2
ZZ57970		0.21	82.4	1810	16.0	16.4	0.003	0.25	3.29	5.1	6.8	0.7	134.5	<0.01	0.07	0.9
ZZ57971		0.25	13.0	440	12.7	10.2	0.001	0.14	1.62	1.0	1.3	0.7	26.2	<0.01	0.05	1.1
ZZ57972		0.85	13.8	710	14.5	13.9	<0.001	0.06	1.85	1.8	2.1	0.8	13.8	<0.01	0.04	2.2
ZZ57973		1.20	34.3	1640	13.3	11.1	0.002	0.08	3.54	4.1	3.1	0.6	28.3	0.01	0.05	3.7
ZZ57974		0.18	30.0	720	16.0	11.2	0.001	0.08	2.85	1.6	2.0	0.7	14.8	<0.01	0.09	0.7
ZZ57975		0.49	36.7	960	20.5	16.4	<0.001	0.14	3.10	4.2	3.4	0.6	49.6	<0.01	0.09	3.1
ZZ57976		0.32	22.4	950	14.8	18.6	<0.001	0.09	1.51	4.5	4.7	0.5	30.8	<0.01	0.04	1.6
ZZ57977		0.21	15.5	810	11.5	14.8	0.003	0.07	1.21	3.0	3.0	0.5	21.0	<0.01	0.06	1.7
ZZ57978		0.23	19.4	950	15.8	15.4	0.001	0.07	1.78	3.1	3.6	0.6	26.6	<0.01	0.04	2.2
ZZ57979		0.16	38.0	1000	17.6	11.5	0.001	0.05	2.81	2.0	3.5	0.6	15.8	<0.01	0.08	0.8
ZZ57980		0.07	25.1	920	56.8	8.1	0.004	0.39	11.55	1.7	9.0	0.8	66.6	<0.01	0.26	0.8
ZZ57981		0.59	16.5	440	16.4	11.6	<0.001	0.02	1.23	2.6	0.9	0.7	11.7	<0.01	0.09	2.6
ZZ57982		0.46	75.6	1270	14.2	9.8	0.001	0.11	3.14	4.3	3.6	0.5	84.9	<0.01	0.11	1.0
ZZ57983		0.49	25.6	490	28.0	11.0	0.002	0.04	0.72	5.9	1.0	0.7	28.2	<0.01	0.09	3.1
ZZ57984		0.32	29.5	770	14.9	10.5	0.001	0.08	2.93	5.3	1.9	0.5	58.5	<0.01	0.05	2.1
ZZ57985		0.32	25.6	650	13.4	9.3	0.001	0.10	1.54	4.5	1.5	0.4	80.7	<0.01	0.04	1.4
ZZ57986		0.37	28.7	750	15.0	11.4	0.001	0.09	0.38	5.0	0.5	0.6	78.4	<0.01	0.04	1.4
ZZ57987		0.38	26.7	690	16.3	10.2	0.001	0.05	0.47	5.6	0.6	0.6	35.8	<0.01	0.10	1.5
ZZ57988		0.52	24.0	640	19.7	8.5	0.002	0.05	0.50	5.5	0.7	0.5	43.5	<0.01	0.07	2.4
ZZ57989		0.55	18.0	220	23.2	15.0	<0.001	0.01	0.46	3.2	0.2	0.7	9.6	<0.01	0.05	3.2
ZZ57990		0.57	18.3	410	22.2	14.1	0.001	0.03	0.43	4.4	0.7	0.6	13.2	<0.01	0.05	3.4

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57951		0.017	0.51	2.25	64	0.16	14.75	176	1.0
ZZ57952		0.024	1.01	1.70	70	0.31	7.70	423	1.1
ZZ57953		0.013	0.56	1.40	38	0.21	7.79	310	0.9
ZZ57954		<0.005	0.31	3.23	68	0.10	18.65	265	1.7
ZZ57955		<0.005	0.52	5.31	96	0.11	23.3	305	2.1
ZZ57956		<0.005	0.15	4.16	50	0.06	18.90	271	1.9
ZZ57957		<0.005	0.24	5.47	47	0.08	13.30	160	1.7
ZZ57958		<0.005	0.28	4.59	56	0.06	12.25	114	1.6
ZZ57959		0.007	0.09	7.02	21	<0.05	18.25	82	2.2
ZZ57960		0.007	0.20	3.99	77	0.14	12.30	98	0.8
ZZ57961		<0.005	0.42	4.09	96	0.06	17.45	287	1.6
ZZ57962		<0.005	0.27	1.43	45	0.06	6.77	150	<0.5
ZZ57963		<0.005	0.16	1.31	64	0.06	6.68	151	0.7
ZZ57964		<0.005	0.19	5.78	54	<0.05	36.7	391	1.9
ZZ57965		0.005	0.19	6.72	51	<0.05	34.4	404	2.3
ZZ57966		<0.005	0.10	2.08	69	<0.05	15.95	277	1.0
ZZ57967		<0.005	0.18	3.82	87	0.06	8.15	321	0.8
ZZ57968		0.006	1.57	8.58	86	0.07	45.1	506	1.3
ZZ57969		0.005	0.08	0.93	7	<0.05	3.81	202	<0.5
ZZ57970		<0.005	2.20	3.91	60	<0.05	12.30	273	1.4
ZZ57971		0.009	0.25	0.41	82	0.08	1.86	98	<0.5
ZZ57972		0.021	0.45	0.67	91	0.15	2.69	90	<0.5
ZZ57973		0.027	0.83	3.92	140	0.24	5.49	129	2.0
ZZ57974		0.007	0.15	0.63	72	0.06	2.77	188	<0.5
ZZ57975		0.017	0.71	1.47	64	0.11	9.05	179	0.5
ZZ57976		0.006	0.48	1.95	59	0.08	15.80	96	<0.5
ZZ57977		<0.005	0.39	1.43	43	0.05	7.34	65	<0.5
ZZ57978		<0.005	0.59	1.23	73	0.09	6.14	115	0.5
ZZ57979		<0.005	0.61	1.40	65	0.09	5.91	246	<0.5
ZZ57980		<0.005	1.96	8.46	204	0.56	15.00	84	0.5
ZZ57981		0.009	0.39	0.72	87	0.16	3.11	79	0.7
ZZ57982		0.007	0.47	3.58	225	0.13	22.0	354	2.5
ZZ57983		0.010	0.35	1.00	39	0.13	7.90	133	1.9
ZZ57984		0.005	0.25	1.33	31	<0.05	12.90	222	2.9
ZZ57985		0.005	0.20	1.31	27	<0.05	10.85	140	2.4
ZZ57986		<0.005	0.19	1.29	30	0.05	11.05	86	4.0
ZZ57987		0.006	0.13	1.29	47	0.08	7.92	74	2.2
ZZ57988		0.008	0.16	1.16	37	0.11	9.12	77	2.2
ZZ57989		0.010	0.20	0.51	50	0.12	2.87	77	1.1
ZZ57990		0.009	0.17	0.81	39	0.11	8.82	76	1.1



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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ57991		0.15	0.009	0.09	1.06	22.5	<0.2	<10	190	0.71	0.27	2.03	0.19	7.74	10.7	17
ZZ57992		0.16	0.006	0.18	1.60	23.7	<0.2	<10	460	1.07	0.32	1.22	0.18	21.2	11.4	26
ZZ57993		0.15	0.010	0.17	1.28	13.5	<0.2	<10	340	0.99	0.29	1.42	0.32	14.85	9.3	20
ZZ57994		0.14	0.006	0.28	1.51	26.9	<0.2	<10	300	1.04	0.30	1.12	0.24	19.85	8.5	25
ZZ57995		0.13	0.006	0.15	1.09	15.2	<0.2	<10	250	0.98	0.30	1.32	0.41	13.85	9.7	18
ZZ57996		0.18	0.013	0.06	1.40	11.7	<0.2	<10	320	1.28	0.39	0.51	0.24	18.35	14.5	24
ZZ57997		0.20	0.012	0.27	1.33	11.0	<0.2	<10	270	1.33	0.37	0.99	0.17	15.10	8.4	23
ZZ57998		0.18	0.001	0.06	1.29	14.9	<0.2	<10	180	0.54	0.31	0.67	0.18	19.10	9.1	20
ZZ57999		0.17	0.002	0.06	1.44	84.2	<0.2	<10	130	0.73	0.37	0.12	0.41	14.85	21.0	28
ZZ58000		0.11	0.010	0.12	0.79	44.0	<0.2	10	240	0.48	0.16	3.06	0.45	10.35	7.0	11
ZZ58001		0.15	0.004	0.19	1.11	134.0	<0.2	<10	200	0.85	0.28	1.03	0.48	16.40	11.1	19
ZZ58002		0.15	<0.001	0.21	1.15	20.7	<0.2	10	320	0.74	0.21	3.49	0.38	14.25	8.3	17
ZZ58003		0.20	0.005	0.12	2.92	29.8	<0.2	<10	240	1.73	0.36	0.12	0.35	38.2	28.2	41
ZZ58004		0.16	0.004	0.08	1.98	16.2	<0.2	<10	150	0.92	0.38	0.10	0.29	23.2	18.4	30
ZZ58005		0.15	0.008	0.15	1.42	10.9	<0.2	10	280	0.74	0.24	2.25	0.33	14.30	14.1	23
ZZ58006		0.16	0.005	0.12	1.54	15.0	<0.2	10	220	1.00	0.26	2.12	0.25	12.45	16.6	23
ZZ58007		0.18	0.008	0.32	1.73	17.8	<0.2	<10	180	0.92	0.30	0.80	0.30	20.7	20.5	28
ZZ58008		0.15	0.006	0.19	1.12	7.4	<0.2	<10	250	0.49	0.22	3.79	0.28	10.30	9.6	16
ZZ58009		0.16	0.002	0.08	1.22	10.6	<0.2	<10	220	0.71	0.32	0.48	0.15	17.65	10.1	21
ZZ58010		0.18	0.004	0.19	1.73	10.9	<0.2	<10	220	0.82	0.27	0.93	0.34	26.4	15.7	30
ZZ58011		0.12	0.007	0.12	1.22	7.3	<0.2	10	180	0.64	0.23	2.86	0.31	14.00	12.6	18
ZZ58012		0.16	0.005	0.12	1.52	12.1	<0.2	10	140	0.86	0.28	1.46	0.36	23.7	20.1	23
ZZ58013		0.15	0.003	0.12	1.33	10.6	<0.2	<10	240	0.63	0.25	1.49	0.42	24.1	11.7	21
ZZ58014		0.18	0.002	0.03	1.44	12.3	<0.2	<10	140	0.43	0.32	0.11	0.22	25.1	6.1	23
ZZ58015		0.13	0.006	0.15	1.11	10.7	<0.2	10	310	0.62	0.16	3.85	0.18	11.15	9.0	14
ZZ58016		0.08	0.008	0.14	0.56	10.6	<0.2	10	140	0.45	0.16	3.96	0.26	11.80	9.0	6
ZZ58017		0.20	0.002	0.07	2.91	14.9	<0.2	<10	160	1.13	0.29	0.06	0.26	31.3	26.0	36
ZZ58018		0.17	0.002	0.04	1.76	10.3	<0.2	<10	130	0.57	0.30	0.14	0.16	30.3	8.2	24
ZZ58019		0.16	0.003	0.09	2.06	5.2	<0.2	<10	140	0.79	0.25	0.35	0.37	31.2	19.1	30
ZZ58020		0.17	0.007	0.09	1.87	14.1	<0.2	<10	320	0.94	0.31	0.16	0.49	31.4	19.9	29
ZZ58021		0.16	0.002	0.02	1.57	7.4	<0.2	<10	130	0.40	0.29	0.04	0.15	27.4	10.3	23
ZZ58022		0.16	0.008	0.23	1.72	7.3	<0.2	<10	840	0.99	0.22	1.07	0.19	21.0	10.2	27
ZZ58023		0.17	0.010	0.16	1.39	7.0	<0.2	10	410	0.93	0.20	1.88	0.69	13.45	13.1	20
ZZ58024		0.21	0.001	0.07	1.67	9.6	<0.2	<10	110	0.39	0.27	0.06	0.13	27.9	8.9	25
ZZ58025		0.19	0.008	0.14	2.92	8.2	<0.2	10	170	1.19	0.28	0.81	0.30	21.5	25.2	46
ZZ58026		0.16	0.005	0.10	1.75	10.4	<0.2	10	160	0.96	0.22	2.17	0.25	21.1	17.4	24
ZZ58027		0.19	0.004	0.12	1.76	10.3	<0.2	<10	140	0.95	0.26	0.94	0.25	24.6	19.7	26
ZZ58028		0.16	0.004	0.10	1.74	10.1	<0.2	<10	140	0.83	0.25	1.22	0.21	23.1	18.5	25
ZZ58029		0.13	0.004	0.11	1.88	10.6	<0.2	<10	170	0.95	0.23	1.67	0.13	21.2	14.9	26
ZZ58030		0.15	0.004	0.11	1.84	9.1	<0.2	<10	190	0.92	0.23	1.46	0.18	20.3	15.6	27

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ57991		2.02	20.4	2.60	3.70	<0.05	0.06	0.08	0.025	0.09	3.3	16.7	0.38	636	0.82	0.01
ZZ57992		1.15	35.4	3.14	5.22	<0.05	0.05	0.15	0.033	0.07	9.4	19.2	0.49	626	0.99	0.01
ZZ57993		1.47	33.0	2.39	4.48	<0.05	0.07	0.10	0.024	0.07	7.1	12.7	0.33	586	1.05	0.01
ZZ57994		2.21	46.8	2.90	4.96	<0.05	0.08	0.33	0.033	0.08	10.1	15.7	0.47	400	0.86	0.01
ZZ57995		1.21	25.4	2.92	3.91	<0.05	0.06	0.13	0.029	0.09	7.0	11.9	0.35	523	0.69	0.01
ZZ57996		1.46	21.9	3.32	5.86	<0.05	0.06	0.04	0.029	0.13	7.9	24.0	0.40	723	0.61	0.01
ZZ57997		1.64	39.6	3.04	4.85	<0.05	0.08	0.16	0.032	0.15	8.8	20.8	0.46	313	0.52	0.01
ZZ57998		1.82	17.5	3.18	5.93	<0.05	0.02	0.03	0.031	0.07	8.1	21.9	0.28	353	1.12	<0.01
ZZ57999		2.00	54.5	5.82	5.00	<0.05	0.05	0.14	0.045	0.10	5.3	24.8	0.38	1060	1.87	<0.01
ZZ58000		9.28	20.3	1.62	2.36	<0.05	0.05	0.19	0.016	0.05	5.4	6.1	0.28	426	0.75	0.01
ZZ58001		7.55	25.0	3.46	3.55	<0.05	0.07	0.38	0.032	0.10	7.7	14.8	0.40	762	0.70	0.01
ZZ58002		1.02	33.6	2.22	3.19	<0.05	0.03	0.18	0.023	0.05	7.3	10.9	0.36	694	0.69	0.01
ZZ58003		2.81	95.5	6.03	8.28	0.07	0.07	0.32	0.065	0.09	12.3	39.9	0.88	860	1.06	0.01
ZZ58004		1.87	35.0	4.52	6.15	<0.05	0.03	0.05	0.048	0.08	8.0	32.6	0.42	821	1.28	0.01
ZZ58005		0.85	51.0	3.20	4.43	<0.05	0.04	0.13	0.036	0.07	6.1	22.5	0.66	642	0.84	0.01
ZZ58006		0.94	84.3	3.92	4.79	<0.05	0.05	0.13	0.039	0.07	6.2	22.3	0.70	512	0.83	0.01
ZZ58007		1.14	89.0	4.51	5.64	0.06	0.06	0.25	0.043	0.08	9.3	28.9	0.84	923	0.97	0.01
ZZ58008		0.63	42.5	2.17	3.53	<0.05	0.03	0.14	0.022	0.04	4.8	12.0	0.40	609	0.53	0.01
ZZ58009		0.78	17.9	3.03	4.25	<0.05	0.02	0.03	0.032	0.07	7.9	13.7	0.29	283	0.94	<0.01
ZZ58010		1.08	47.0	3.36	5.86	<0.05	0.05	0.07	0.035	0.08	12.1	27.7	0.68	525	0.77	0.01
ZZ58011		0.91	41.6	2.82	3.81	<0.05	0.04	0.09	0.034	0.08	6.8	17.1	0.45	562	0.50	0.01
ZZ58012		1.58	77.3	4.25	4.99	0.05	0.06	0.11	0.049	0.10	10.9	23.5	0.67	668	0.76	0.01
ZZ58013		1.19	31.0	2.64	4.67	<0.05	0.03	0.06	0.029	0.05	10.3	18.7	0.38	833	0.84	0.01
ZZ58014		1.34	13.9	3.13	7.09	<0.05	0.02	0.01	0.028	0.05	12.5	19.1	0.31	175	1.35	0.01
ZZ58015		0.70	45.8	2.34	2.92	<0.05	0.04	0.13	0.029	0.07	5.3	7.3	0.24	356	0.81	0.01
ZZ58016		0.74	38.0	1.80	1.25	<0.05	0.06	0.19	0.023	0.06	5.0	2.9	0.20	237	1.32	0.01
ZZ58017		1.63	66.5	5.38	6.67	0.05	0.13	0.04	0.048	0.08	13.8	48.3	0.89	528	0.89	<0.01
ZZ58018		1.28	28.1	4.08	8.22	<0.05	0.02	0.04	0.033	0.06	15.1	28.6	0.36	184	1.35	<0.01
ZZ58019		9.91	68.4	3.57	6.21	<0.05	0.03	0.05	0.046	0.08	13.2	35.7	0.67	571	0.81	0.01
ZZ58020		2.18	59.0	4.35	6.47	0.05	0.03	0.06	0.044	0.07	13.7	32.5	0.70	742	0.92	<0.01
ZZ58021		3.00	26.9	3.74	7.83	<0.05	0.03	0.03	0.031	0.06	12.1	21.1	0.30	364	1.00	<0.01
ZZ58022		3.93	56.2	2.84	4.73	<0.05	0.03	0.13	0.032	0.05	11.3	16.2	0.55	1030	1.06	0.01
ZZ58023		5.67	54.7	3.69	3.82	<0.05	0.07	0.27	0.034	0.09	6.3	24.3	0.82	2940	0.51	0.01
ZZ58024		1.52	16.4	4.16	7.90	<0.05	0.05	0.03	0.029	0.05	13.5	28.6	0.42	273	1.03	<0.01
ZZ58025		1.45	121.0	6.02	9.46	0.06	0.07	0.11	0.050	0.10	7.5	43.7	2.20	281	0.62	0.01
ZZ58026		1.15	68.0	3.88	4.96	0.05	0.09	0.12	0.030	0.13	11.0	36.6	0.88	721	0.65	0.01
ZZ58027		1.21	62.1	4.01	5.64	0.05	0.09	0.14	0.035	0.10	11.4	38.3	0.95	752	0.69	<0.01
ZZ58028		0.90	64.9	4.07	5.14	<0.05	0.08	0.14	0.028	0.09	10.2	36.4	0.94	646	0.70	<0.01
ZZ58029		0.91	65.8	3.95	5.79	0.05	0.08	0.12	0.034	0.11	10.5	35.7	0.88	407	0.64	0.01
ZZ58030		1.09	69.9	3.97	5.21	<0.05	0.09	0.11	0.031	0.10	10.1	33.0	0.86	592	0.58	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ57991		0.52	13.8	600	16.5	10.1	<0.001	0.09	0.37	2.2	<0.2	0.5	48.5	<0.01	0.04	1.2
ZZ57992		0.73	20.1	990	17.9	10.1	<0.001	0.09	0.53	3.4	0.7	0.6	38.0	<0.01	0.05	1.2
ZZ57993		0.75	13.3	1140	12.9	12.0	<0.001	0.12	0.42	2.7	0.8	0.5	62.5	<0.01	0.03	1.0
ZZ57994		0.53	16.3	1440	18.4	17.6	0.001	0.14	0.41	3.5	1.3	0.6	54.6	<0.01	0.03	1.0
ZZ57995		0.49	15.3	870	16.8	18.6	<0.001	0.10	0.36	3.4	0.6	0.6	60.9	<0.01	0.03	1.2
ZZ57996		0.55	21.7	520	19.7	19.3	<0.001	0.03	0.33	4.6	0.6	0.9	29.6	<0.01	0.04	3.2
ZZ57997		0.48	20.1	610	19.2	20.2	0.001	0.09	0.42	4.7	0.9	0.8	140.5	<0.01	0.06	2.5
ZZ57998		0.78	12.2	380	16.0	13.0	0.001	0.02	0.45	2.9	<0.2	0.7	26.6	<0.01	0.08	1.9
ZZ57999		0.23	26.0	440	40.1	15.5	0.001	0.02	0.88	5.3	0.8	0.6	11.2	<0.01	0.14	3.0
ZZ58000		0.46	10.3	1290	11.3	10.9	<0.001	0.21	0.45	2.0	0.9	0.3	89.9	<0.01	0.03	0.4
ZZ58001		0.32	18.2	660	24.5	15.8	0.001	0.09	0.38	5.0	0.6	0.5	35.3	<0.01	0.06	1.8
ZZ58002		0.58	15.6	1470	12.3	7.3	<0.001	0.21	0.59	1.9	1.6	0.4	128.0	<0.01	0.06	0.4
ZZ58003		0.30	43.0	400	24.7	13.8	<0.001	0.02	0.61	14.9	1.4	0.7	13.0	<0.01	0.16	4.5
ZZ58004		0.66	23.8	560	19.5	15.1	0.002	0.03	0.46	5.1	0.5	0.8	12.0	<0.01	0.10	3.5
ZZ58005		0.49	24.2	710	14.4	7.6	0.002	0.11	0.52	5.0	1.6	0.4	94.3	<0.01	0.09	0.8
ZZ58006		0.25	28.0	670	14.8	6.6	0.001	0.09	0.52	7.5	0.8	0.4	88.5	<0.01	0.12	0.8
ZZ58007		0.26	34.6	580	18.3	6.9	0.001	0.04	0.50	11.4	1.2	0.4	39.0	<0.01	0.13	2.4
ZZ58008		0.37	14.8	1290	9.6	5.1	<0.001	0.17	0.42	2.0	1.2	0.3	169.0	<0.01	0.06	0.3
ZZ58009		0.54	15.1	710	19.1	9.6	<0.001	0.04	0.39	3.4	0.2	0.6	28.5	<0.01	0.05	1.3
ZZ58010		0.82	26.9	760	15.6	9.8	<0.001	0.06	0.55	6.7	1.0	0.5	48.7	<0.01	0.11	2.0
ZZ58011		0.34	18.4	760	14.0	8.5	<0.001	0.11	0.38	4.1	0.2	0.4	126.5	<0.01	0.07	0.6
ZZ58012		0.45	32.4	790	19.3	8.4	0.002	0.10	0.48	7.8	1.7	0.5	71.5	<0.01	0.12	1.5
ZZ58013		0.86	17.0	600	13.3	9.2	0.001	0.06	0.46	4.2	0.8	0.5	89.4	<0.01	0.07	1.3
ZZ58014		1.49	12.4	260	14.3	11.0	0.001	0.01	0.61	2.6	<0.2	0.8	11.4	<0.01	0.05	3.2
ZZ58015		0.28	19.9	1200	11.0	5.1	<0.001	0.12	0.42	3.3	1.7	0.3	245	<0.01	0.07	0.4
ZZ58016		0.24	18.1	1250	13.7	4.0	0.001	0.17	0.40	2.1	2.3	0.2	250	<0.01	0.06	0.4
ZZ58017		0.43	46.0	290	17.8	11.8	<0.001	0.01	0.60	5.5	0.7	0.5	7.6	<0.01	0.09	4.1
ZZ58018		0.79	15.9	240	15.0	10.0	<0.001	0.01	0.54	3.1	0.4	0.8	11.0	<0.01	0.07	3.1
ZZ58019		0.59	26.8	770	11.8	12.3	<0.001	0.03	0.31	6.2	1.0	0.6	17.5	<0.01	0.09	1.8
ZZ58020		0.48	29.8	490	26.3	10.0	<0.001	0.02	0.65	6.2	0.9	0.5	12.8	<0.01	0.10	3.1
ZZ58021		0.64	12.6	240	10.7	10.9	<0.001	0.01	0.42	3.1	0.4	0.8	5.2	<0.01	0.11	2.9
ZZ58022		0.56	22.8	1300	9.7	7.3	<0.001	0.09	0.54	4.4	2.0	0.5	34.6	<0.01	0.04	0.7
ZZ58023		0.25	24.6	970	10.4	9.4	0.023	0.26	0.26	6.8	6.1	0.3	126.5	<0.01	0.04	1.1
ZZ58024		0.97	15.5	150	15.0	12.3	<0.001	0.01	0.46	2.7	0.4	0.7	6.8	<0.01	0.05	3.2
ZZ58025		0.34	53.0	880	11.2	7.7	0.001	0.05	0.27	12.2	1.9	0.6	51.3	<0.01	0.18	2.1
ZZ58026		0.14	33.6	840	14.1	6.8	<0.001	0.11	0.60	5.0	1.2	0.3	76.2	<0.01	0.06	1.4
ZZ58027		0.19	36.5	420	18.1	7.0	<0.001	0.05	0.55	7.7	1.0	0.3	34.6	<0.01	0.07	3.1
ZZ58028		0.14	34.0	610	16.1	5.6	<0.001	0.06	0.56	5.5	0.7	0.3	42.8	<0.01	0.06	2.0
ZZ58029		0.16	31.7	720	12.2	7.3	<0.001	0.08	0.60	5.8	0.9	0.3	60.8	<0.01	0.07	1.7
ZZ58030		0.20	31.7	790	13.5	7.7	0.001	0.09	0.51	5.5	1.8	0.3	61.3	<0.01	0.07	1.5

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To: ATAC RESOURCES LTD.  
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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ57991		0.009	0.14	0.54	26	0.09	2.82	76	1.7
ZZ57992		0.013	0.16	1.85	43	0.17	8.53	72	1.2
ZZ57993		0.013	0.12	1.89	32	0.20	7.51	67	1.6
ZZ57994		0.010	0.24	4.41	37	0.11	14.60	107	1.8
ZZ57995		0.007	0.15	2.77	27	0.07	9.00	131	1.6
ZZ57996		0.009	0.11	0.81	29	0.07	9.93	98	1.5
ZZ57997		0.006	0.14	1.55	26	0.07	13.35	91	1.9
ZZ57998		0.012	0.13	0.69	49	0.16	3.75	47	0.7
ZZ57999		<0.005	0.47	0.69	52	0.08	4.64	128	1.7
ZZ58000		0.011	0.91	2.73	20	0.09	7.32	56	1.6
ZZ58001		0.005	0.61	1.31	28	0.11	10.10	148	1.7
ZZ58002		0.012	0.14	3.60	29	0.09	9.43	47	1.0
ZZ58003		0.005	0.19	1.02	72	0.06	16.15	150	1.9
ZZ58004		0.007	0.16	0.79	54	0.14	5.12	75	1.1
ZZ58005		0.012	0.08	4.97	39	0.22	8.45	60	1.2
ZZ58006		0.006	0.10	1.23	42	0.05	12.60	69	1.4
ZZ58007		0.009	0.13	0.82	50	0.06	15.85	81	1.7
ZZ58008		0.008	0.07	1.41	30	0.07	6.81	53	0.9
ZZ58009		0.012	0.09	0.74	39	0.20	6.30	61	<0.5
ZZ58010		0.020	0.11	1.55	50	0.14	11.50	81	1.4
ZZ58011		0.007	0.09	1.56	31	0.05	10.70	77	1.1
ZZ58012		0.008	0.12	1.48	47	0.05	15.90	91	1.6
ZZ58013		0.019	0.10	1.97	44	0.18	8.62	64	0.9
ZZ58014		0.030	0.12	0.57	62	0.26	3.10	59	0.8
ZZ58015		0.006	0.14	3.03	28	0.05	11.30	45	1.4
ZZ58016		0.008	0.22	2.51	12	0.05	10.40	62	1.9
ZZ58017		0.009	0.11	0.46	54	0.07	4.02	72	4.8
ZZ58018		0.016	0.12	0.50	73	0.17	2.90	46	0.9
ZZ58019		0.023	0.13	0.61	51	0.23	9.41	74	0.6
ZZ58020		0.012	0.12	0.68	55	0.09	8.95	72	1.1
ZZ58021		0.014	0.12	0.35	74	0.13	2.24	46	1.2
ZZ58022		0.022	0.09	1.20	44	0.16	13.90	60	0.6
ZZ58023		0.008	0.09	1.05	33	<0.05	10.05	110	1.9
ZZ58024		0.026	0.12	0.36	73	0.16	2.13	48	2.2
ZZ58025		0.017	0.09	0.27	88	0.07	13.25	105	1.7
ZZ58026		0.005	0.08	2.42	35	<0.05	11.35	79	2.8
ZZ58027		0.006	0.09	0.83	39	0.11	11.25	76	3.2
ZZ58028		0.005	0.08	0.78	38	0.05	8.52	77	2.3
ZZ58029		0.005	0.08	1.03	41	<0.05	9.85	74	2.4
ZZ58030		0.006	0.08	1.30	41	<0.05	10.30	84	2.6



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**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58031		0.13	0.005	0.11	1.79	11.0	<0.2	<10	200	0.90	0.25	1.37	0.24	23.6	21.6	26
ZZ58032		0.14	0.014	0.04	1.15	9.1	<0.2	<10	130	0.38	0.22	0.35	0.78	19.90	7.9	21
ZZ58033		0.20	0.001	0.03	2.17	12.1	<0.2	<10	140	0.73	0.26	0.06	0.15	26.4	15.2	30
ZZ58034		0.21	0.002	0.06	1.71	12.1	<0.2	<10	180	0.52	0.31	0.45	0.21	24.3	9.3	25
ZZ58035		0.18	0.004	0.04	1.70	9.2	<0.2	<10	240	0.62	0.24	0.59	0.26	22.1	11.5	24
ZZ58036		0.17	0.001	0.48	0.62	19.7	<0.2	10	260	1.03	0.11	2.15	1.88	28.1	9.2	13
ZZ58037		0.21	0.002	0.29	0.65	16.7	<0.2	10	270	1.09	0.10	2.25	1.40	38.8	15.1	17
ZZ58038		0.19	0.004	0.40	1.07	12.4	<0.2	<10	540	0.94	0.12	0.89	0.51	19.60	7.7	17
ZZ58039		0.19	0.009	1.49	1.10	33.0	<0.2	10	270	1.88	0.17	1.99	27.7	39.8	6.7	84
ZZ58040		0.16	0.009	3.54	0.46	23.9	<0.2	10	320	1.32	0.14	8.02	43.3	23.8	3.2	63
ZZ58041		0.18	0.007	3.29	0.52	27.5	<0.2	10	350	1.41	0.16	7.86	31.9	24.7	3.4	73
ZZ58042		0.20	0.006	2.93	0.55	28.4	<0.2	10	340	1.32	0.17	5.89	26.2	21.2	3.7	63
ZZ58043		0.19	0.008	2.46	0.50	26.8	<0.2	10	290	1.21	0.16	5.73	18.60	19.75	4.0	49
ZZ58044		0.16	0.007	1.79	0.50	19.2	<0.2	10	220	1.02	0.14	4.35	16.60	18.45	4.8	48
ZZ58045		0.12	0.007	2.40	0.49	18.2	<0.2	10	220	1.04	0.14	8.42	17.05	18.45	5.6	61
ZZ58046		0.18	0.004	2.04	0.47	19.4	<0.2	10	350	1.02	0.13	6.76	18.30	17.60	5.8	52
ZZ58047		0.21	0.007	2.18	0.50	14.4	<0.2	10	260	1.08	0.13	7.19	20.5	19.40	2.3	58
ZZ58048		0.13	0.008	1.04	0.44	8.9	<0.2	10	320	0.60	0.08	5.21	11.50	9.73	5.4	33
ZZ58049		0.13	0.008	1.64	0.64	18.1	<0.2	10	410	0.82	0.12	3.77	7.97	15.35	8.5	47
ZZ58050		0.11	0.010	0.20	0.27	2.5	<0.2	<10	260	0.17	0.03	5.18	3.71	2.51	1.1	5
ZZ58051		0.13	0.005	1.62	0.54	24.5	<0.2	10	390	0.61	0.14	2.92	9.44	14.60	5.9	46
ZZ58052		0.14	0.008	0.69	0.47	28.0	<0.2	10	570	0.50	0.18	1.66	2.32	11.30	5.3	14
ZZ58053		0.16	0.008	0.77	0.54	26.7	<0.2	10	610	0.75	0.18	1.75	5.68	13.30	7.4	16
ZZ58054		0.17	0.007	0.71	0.50	40.7	<0.2	10	1060	0.61	0.22	0.87	6.20	13.70	19.5	10
ZZ58055		0.16	0.007	0.66	0.53	21.1	<0.2	10	760	0.65	0.21	0.95	6.02	14.80	12.4	12
ZZ58056		0.19	0.005	0.51	0.58	29.0	<0.2	10	540	0.63	0.21	0.91	1.66	12.95	7.1	12
ZZ58057		0.22	0.006	0.47	0.58	20.2	<0.2	10	530	0.67	0.24	0.79	1.91	13.75	7.2	11
ZZ58058		0.22	0.005	0.41	1.14	70.0	<0.2	<10	440	0.89	0.27	0.97	0.98	18.20	9.5	21
ZZ58059		0.29	0.004	0.45	1.14	37.9	<0.2	<10	530	0.83	0.28	1.52	1.57	23.3	12.4	24
ZZ58060		0.16	0.006	0.24	1.29	36.2	<0.2	<10	320	0.83	0.22	1.99	0.66	9.03	9.7	21
ZZ58061		0.19	0.005	0.22	1.24	26.9	<0.2	<10	300	0.86	0.20	2.00	0.62	8.80	10.2	21
ZZ58062		0.16	0.006	0.26	1.16	48.6	<0.2	10	360	0.75	0.22	2.61	0.75	8.00	9.4	19
ZZ58063		0.14	0.053	0.83	1.06	185.5	<0.2	10	340	0.77	0.19	3.18	2.99	12.25	8.1	19
ZZ58064		0.19	0.145	1.87	1.11	629	<0.2	10	240	1.05	0.26	3.39	2.76	18.30	12.0	26
ZZ58065		0.19	0.014	0.47	1.33	150.5	<0.2	<10	240	0.95	0.24	2.96	1.77	20.8	9.7	25
ZZ58066		0.17	0.009	0.40	1.11	128.5	<0.2	<10	450	0.81	0.20	2.38	1.24	15.70	9.5	21
ZZ58067		0.14	0.016	0.39	1.29	154.0	<0.2	10	450	0.96	0.22	2.64	1.50	14.70	11.0	21
ZZ58068		0.13	0.004	0.34	1.24	146.0	<0.2	<10	500	0.98	0.22	2.32	1.02	15.45	9.1	20
ZZ58069		0.14	0.012	0.35	1.18	161.0	<0.2	<10	480	1.01	0.22	2.12	1.15	16.10	8.6	21
ZZ58070		0.15	0.008	0.57	0.93	147.0	<0.2	10	510	0.78	0.19	2.48	0.70	10.35	7.0	19

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58031		1.30	54.4	4.43	5.19	<0.05	0.08	0.12	0.033	0.10	10.9	35.1	0.86	1060	0.60	0.01
ZZ58032		0.85	23.3	2.91	5.80	<0.05	<0.02	0.03	0.024	0.06	9.8	17.5	0.31	211	1.07	<0.01
ZZ58033		1.16	30.5	4.11	6.43	<0.05	0.05	0.05	0.034	0.06	12.0	43.5	0.69	373	0.98	<0.01
ZZ58034		1.38	13.1	3.64	7.18	<0.05	0.02	0.03	0.032	0.05	11.9	26.1	0.34	387	1.36	<0.01
ZZ58035		1.08	19.7	3.75	6.02	<0.05	0.04	0.03	0.032	0.05	9.7	37.7	0.50	563	0.81	<0.01
ZZ58036		0.38	27.0	3.12	1.66	<0.05	0.07	0.19	0.042	0.11	16.5	2.9	0.09	255	6.93	0.01
ZZ58037		0.56	28.7	3.73	1.78	0.06	0.04	0.18	0.045	0.12	21.0	3.8	0.14	496	5.36	0.01
ZZ58038		0.69	25.8	2.89	3.02	<0.05	0.08	0.11	0.039	0.08	12.3	4.3	0.10	175	10.85	0.01
ZZ58039		1.21	140.0	1.98	4.14	0.08	0.06	0.62	0.028	0.10	29.7	9.3	0.47	170	53.8	0.01
ZZ58040		0.83	164.5	1.18	2.98	0.10	0.05	0.71	0.021	0.10	18.5	4.0	0.80	83	63.5	0.01
ZZ58041		0.92	166.5	1.43	2.97	0.09	0.04	0.64	0.022	0.12	18.6	4.6	1.54	85	62.3	0.01
ZZ58042		0.81	140.5	1.54	2.84	0.09	0.04	0.52	0.025	0.11	18.3	5.0	1.40	81	45.4	0.01
ZZ58043		0.87	115.5	1.64	2.50	0.08	0.04	0.45	0.021	0.10	15.9	4.7	1.59	77	41.2	0.01
ZZ58044		0.71	92.4	1.34	2.23	0.07	0.05	0.39	0.021	0.10	13.5	4.9	1.14	173	23.1	0.01
ZZ58045		0.64	110.5	1.21	2.37	0.08	0.05	0.49	0.021	0.12	14.2	4.6	1.74	189	23.2	0.01
ZZ58046		0.58	112.0	1.31	2.27	0.07	0.05	0.39	0.022	0.10	13.1	4.1	1.48	225	25.7	0.01
ZZ58047		0.64	114.5	1.04	2.27	0.07	0.05	0.43	0.021	0.09	14.7	4.4	1.70	71	16.60	0.01
ZZ58048		0.38	64.9	0.90	1.62	0.06	0.05	0.25	0.012	0.05	7.3	3.8	0.23	318	2.88	0.01
ZZ58049		0.86	71.6	1.48	2.37	0.06	0.05	0.33	0.021	0.07	12.3	5.8	0.38	873	8.20	0.01
ZZ58050		0.10	16.6	0.31	0.74	<0.05	0.04	0.09	0.006	0.01	1.8	0.5	0.13	68	2.08	0.02
ZZ58051		0.94	55.1	1.33	2.39	0.06	0.03	0.31	0.023	0.07	10.3	4.8	0.16	564	7.11	0.01
ZZ58052		1.73	39.8	1.62	1.68	0.05	0.04	0.39	0.026	0.08	5.3	3.3	0.19	263	8.50	0.01
ZZ58053		2.46	57.5	1.75	1.94	0.08	0.05	0.38	0.027	0.08	7.3	4.0	0.18	414	10.55	0.01
ZZ58054		3.18	53.0	2.94	1.96	0.07	0.04	0.44	0.030	0.09	5.4	3.4	0.09	3350	41.0	0.01
ZZ58055		2.79	63.1	2.12	1.88	0.06	0.04	0.39	0.031	0.10	6.2	3.7	0.10	1230	8.20	0.01
ZZ58056		2.23	45.3	2.07	2.08	0.05	0.05	0.38	0.033	0.09	5.4	5.4	0.17	389	11.00	0.01
ZZ58057		2.58	53.8	1.78	2.00	<0.05	0.04	0.35	0.036	0.12	5.6	6.7	0.28	99	4.32	0.01
ZZ58058		1.33	36.2	2.81	3.47	<0.05	0.05	0.51	0.028	0.09	8.9	12.7	0.45	462	2.52	0.01
ZZ58059		1.68	42.9	3.02	3.79	0.06	0.05	0.54	0.032	0.11	10.2	17.6	0.77	452	3.73	0.01
ZZ58060		0.82	28.9	2.73	3.60	<0.05	0.05	0.39	0.034	0.09	5.1	19.1	0.43	339	1.12	0.01
ZZ58061		0.94	28.1	2.72	3.67	<0.05	0.05	0.34	0.032	0.08	5.1	19.1	0.41	387	1.14	0.01
ZZ58062		0.76	33.0	2.56	3.29	<0.05	0.05	0.51	0.029	0.09	4.3	16.3	0.41	339	1.36	0.01
ZZ58063		0.70	29.3	2.25	3.07	<0.05	0.05	4.46	0.029	0.07	6.8	11.2	0.40	400	2.01	0.01
ZZ58064		1.02	31.8	3.23	3.89	<0.05	0.06	26.3	0.040	0.10	8.6	12.6	0.48	485	4.90	0.01
ZZ58065		0.99	29.1	2.69	3.98	<0.05	0.04	2.64	0.035	0.08	11.6	12.8	0.49	484	1.92	0.01
ZZ58066		0.87	25.1	2.46	3.51	<0.05	0.03	1.22	0.028	0.07	7.9	11.4	0.28	513	1.22	0.01
ZZ58067		1.10	30.4	2.54	3.99	<0.05	0.05	1.38	0.033	0.10	7.4	13.7	0.34	556	1.63	0.01
ZZ58068		1.07	28.5	2.57	3.58	0.05	0.04	1.22	0.025	0.08	7.9	11.1	0.32	500	1.56	0.01
ZZ58069		0.94	26.7	2.49	3.57	<0.05	0.04	0.95	0.026	0.08	8.1	11.5	0.44	319	1.39	0.01
ZZ58070		0.98	26.9	2.19	2.76	<0.05	0.05	1.08	0.025	0.08	6.7	10.5	0.28	259	1.09	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 21- SEP- 2012  
 Account: RCM

Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58031		0.16	30.1	740	17.0	8.6	0.003	0.09	0.47	6.6	2.3	0.3	76.7	<0.01	0.09	1.8
ZZ58032		0.62	15.6	460	11.9	8.3	<0.001	0.03	0.46	2.2	0.5	0.5	35.2	<0.01	0.05	1.3
ZZ58033		0.62	32.2	320	14.6	10.4	<0.001	0.01	0.56	3.7	0.7	0.5	8.2	<0.01	0.05	3.4
ZZ58034		1.28	17.1	440	18.2	9.7	<0.001	0.01	0.60	2.6	0.4	0.7	29.0	<0.01	0.06	2.9
ZZ58035		0.56	20.2	480	15.0	9.1	<0.001	0.02	0.38	3.4	0.5	0.5	50.1	<0.01	0.05	2.3
ZZ58036		0.32	54.7	1410	10.8	5.1	0.003	0.14	2.09	3.8	2.1	0.4	54.1	<0.01	0.04	1.0
ZZ58037		0.29	60.6	1400	10.2	5.7	0.001	0.11	1.24	4.4	1.9	0.4	52.4	<0.01	0.03	1.0
ZZ58038		0.27	42.9	920	10.6	7.9	0.001	0.07	1.52	3.2	1.5	0.5	20.9	<0.01	0.07	1.1
ZZ58039		0.22	182.5	1060	19.6	11.5	0.003	0.10	17.15	4.0	7.2	0.7	51.8	<0.01	0.21	0.9
ZZ58040		0.17	300	1410	15.7	8.7	0.006	0.15	28.1	1.8	11.2	0.6	209	<0.01	0.17	0.5
ZZ58041		0.15	297	1430	15.7	9.7	0.009	0.13	21.3	2.5	9.4	0.6	186.0	<0.01	0.15	0.6
ZZ58042		0.16	267	1400	13.5	8.0	0.007	0.11	17.60	2.5	8.4	0.6	136.0	<0.01	0.16	0.6
ZZ58043		0.16	240	1270	12.7	7.9	0.010	0.12	19.10	2.3	9.0	0.6	119.0	<0.01	0.12	0.6
ZZ58044		0.16	335	1260	10.7	7.4	0.011	0.13	12.45	2.4	8.4	0.5	92.7	<0.01	0.10	0.7
ZZ58045		0.14	460	1600	9.5	7.4	0.008	0.12	12.05	2.6	8.1	0.5	164.0	<0.01	0.11	0.8
ZZ58046		0.15	272	1440	10.6	6.8	0.009	0.12	13.05	2.1	7.5	0.5	147.0	<0.01	0.11	0.6
ZZ58047		0.14	217	1510	10.2	7.3	0.009	0.12	13.10	2.6	7.8	0.5	144.0	<0.01	0.12	0.8
ZZ58048		0.18	182.5	930	6.4	4.5	0.009	0.20	5.42	1.4	5.5	0.3	119.5	<0.01	0.06	0.5
ZZ58049		0.21	162.5	1560	9.4	7.5	0.026	0.18	7.08	2.3	7.5	0.4	97.6	<0.01	0.11	0.7
ZZ58050		0.14	53.5	850	1.7	0.5	0.007	0.24	4.05	0.4	9.1	<0.2	118.0	0.01	0.02	<0.2
ZZ58051		0.17	110.5	1540	9.0	8.0	0.024	0.13	5.80	2.2	5.5	0.4	83.0	<0.01	0.12	0.8
ZZ58052		0.14	62.2	850	10.0	6.9	0.017	0.12	4.51	2.4	4.7	0.4	67.0	<0.01	0.06	1.3
ZZ58053		0.16	101.0	990	11.0	10.1	0.029	0.13	5.05	2.9	7.3	0.4	60.8	<0.01	0.04	1.2
ZZ58054		0.13	110.5	880	12.2	12.0	0.018	0.08	5.62	3.3	8.6	0.4	46.3	<0.01	0.08	1.7
ZZ58055		0.15	62.5	780	12.4	11.3	0.028	0.10	4.13	3.6	8.1	0.4	50.8	<0.01	0.08	2.1
ZZ58056		0.17	47.9	810	12.7	10.4	0.025	0.07	3.28	3.3	5.4	0.4	36.8	<0.01	0.08	2.1
ZZ58057		0.19	44.3	660	13.9	10.5	0.015	0.21	2.46	3.8	4.3	0.4	37.0	<0.01	0.04	3.3
ZZ58058		0.28	34.9	630	34.3	9.2	0.001	0.05	1.44	4.2	1.4	0.5	18.7	<0.01	0.05	2.0
ZZ58059		0.53	47.0	840	20.5	9.8	0.003	0.03	1.74	5.1	2.7	0.5	33.0	<0.01	0.05	3.7
ZZ58060		0.21	37.1	870	15.6	9.0	0.001	0.09	0.75	3.7	1.1	0.4	22.3	<0.01	0.04	1.4
ZZ58061		0.18	37.8	830	14.2	9.5	0.001	0.08	0.72	3.7	1.3	0.4	24.8	<0.01	0.05	1.3
ZZ58062		0.17	36.9	860	16.4	8.7	<0.001	0.10	1.10	3.4	1.2	0.4	24.8	<0.01	0.04	1.2
ZZ58063		0.35	32.1	1030	81.7	7.0	<0.001	0.13	3.89	2.4	2.0	0.4	23.8	<0.01	0.06	0.7
ZZ58064		0.30	50.1	910	192.5	8.4	0.001	0.07	8.37	4.6	2.3	0.7	38.4	<0.01	0.02	1.3
ZZ58065		0.47	34.7	1050	29.6	8.5	<0.001	0.10	1.43	2.7	1.3	0.5	22.3	<0.01	0.05	0.5
ZZ58066		0.42	33.9	780	22.9	9.6	<0.001	0.09	0.93	3.1	1.1	0.4	22.6	<0.01	0.03	0.9
ZZ58067		0.38	45.0	880	25.9	10.6	<0.001	0.09	1.22	3.4	1.3	0.5	26.6	<0.01	0.05	0.9
ZZ58068		0.41	34.7	760	24.7	9.3	<0.001	0.09	1.17	3.0	1.9	0.4	24.2	<0.01	0.05	0.9
ZZ58069		0.48	36.5	720	24.7	8.9	0.001	0.08	1.13	3.4	1.3	0.4	21.1	<0.01	0.01	1.1
ZZ58070		0.26	34.7	800	17.1	8.4	<0.001	0.10	0.83	2.5	2.1	0.4	27.7	<0.01	0.07	0.8

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58031		0.005	0.08	0.86	42	0.06	10.50	92	2.4
ZZ58032		0.015	0.09	0.39	46	0.15	2.38	52	0.5
ZZ58033		0.012	0.12	0.46	53	0.14	3.12	67	2.0
ZZ58034		0.034	0.15	0.60	64	0.30	2.99	59	0.9
ZZ58035		0.010	0.11	0.86	54	0.13	3.85	67	1.1
ZZ58036		<0.005	0.26	1.59	70	0.06	15.80	212	2.3
ZZ58037		<0.005	0.34	1.69	40	0.05	17.65	123	1.6
ZZ58038		<0.005	0.26	3.38	97	0.06	12.20	90	2.1
ZZ58039		0.006	1.31	8.29	1440	0.32	51.0	1500	1.9
ZZ58040		0.005	1.49	12.55	1200	0.36	51.6	2100	2.1
ZZ58041		0.005	1.08	10.85	1200	0.33	49.7	1760	2.1
ZZ58042		0.005	0.85	8.57	923	0.28	43.6	1550	1.8
ZZ58043		0.005	0.90	9.71	766	0.21	36.7	1520	1.9
ZZ58044		0.005	0.72	9.92	584	0.16	29.5	2150	2.3
ZZ58045		0.005	0.74	10.45	662	0.17	31.4	2980	2.2
ZZ58046		0.005	0.73	11.05	639	0.19	29.6	1650	2.3
ZZ58047		0.005	0.75	8.90	655	0.16	34.5	1360	2.3
ZZ58048		0.006	0.39	7.71	288	0.07	13.85	982	2.3
ZZ58049		0.005	0.58	7.19	353	0.08	23.8	809	2.2
ZZ58050		0.008	0.07	11.80	93	0.11	3.30	170	1.5
ZZ58051		0.005	0.67	7.93	424	0.10	21.6	758	1.9
ZZ58052		<0.005	0.39	3.35	141	<0.05	11.60	384	1.6
ZZ58053		<0.005	0.55	4.16	145	0.06	16.45	440	2.1
ZZ58054		<0.005	0.52	3.79	88	0.05	12.85	544	1.5
ZZ58055		<0.005	0.50	5.43	92	0.06	14.60	311	1.6
ZZ58056		<0.005	0.38	2.55	75	<0.05	10.60	263	1.7
ZZ58057		<0.005	0.39	1.79	52	<0.05	11.15	260	1.7
ZZ58058		0.006	0.30	1.54	66	0.10	14.45	218	1.6
ZZ58059		0.016	0.32	1.62	64	0.11	12.15	228	2.0
ZZ58060		<0.005	0.15	1.34	32	0.05	12.40	170	2.1
ZZ58061		<0.005	0.13	1.32	33	<0.05	12.65	151	1.7
ZZ58062		<0.005	0.21	2.26	31	0.05	11.80	180	1.9
ZZ58063		0.006	0.97	5.32	43	0.19	12.55	563	1.7
ZZ58064		0.005	4.78	3.51	58	0.58	14.95	855	1.5
ZZ58065		0.009	0.44	2.34	57	0.16	19.45	231	1.0
ZZ58066		0.007	0.29	2.00	46	0.13	12.75	196	1.4
ZZ58067		0.005	0.49	2.33	48	0.15	13.70	297	1.8
ZZ58068		0.008	0.38	3.43	49	0.27	12.90	182	1.5
ZZ58069		0.009	0.35	1.75	46	0.27	11.85	202	1.4
ZZ58070		0.005	0.25	1.68	40	0.15	13.65	175	1.5



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200333**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41	NSS is non- sufficient sample. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12200334**

Project: ATACRegional- AreaB- RacklaCntrl  
 P.O. No.: Soil 35  
 This report is for 190 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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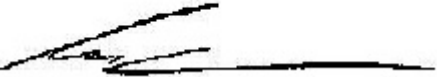
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37951		0.17	0.005	0.07	1.11	13.3	<0.2	<10	270	1.38	0.21	1.95	0.12	26.1	12.9	19
ZZ37952		0.15	0.004	0.07	1.72	25.3	<0.2	<10	120	1.11	0.35	0.17	0.17	24.6	16.9	27
ZZ37953		0.16	0.004	0.08	1.53	13.2	<0.2	<10	130	1.60	0.34	0.14	0.21	18.25	13.8	20
ZZ37954		0.19	0.003	0.03	1.66	16.0	<0.2	<10	120	0.48	0.33	0.05	0.14	28.6	10.5	27
ZZ37955		0.15	0.010	0.03	1.55	8.7	<0.2	<10	110	0.76	0.45	0.02	0.05	8.79	11.6	31
ZZ37956		0.18	0.003	0.05	1.93	23.5	<0.2	<10	150	0.78	0.35	0.10	0.13	26.8	8.6	29
ZZ37957		0.16	0.018	0.04	1.98	6.7	<0.2	<10	80	1.11	0.47	0.03	0.13	16.65	30.1	33
ZZ37958		0.25	0.006	0.08	1.61	42.2	<0.2	<10	150	0.79	0.31	0.20	0.20	28.7	12.6	27
ZZ37959		0.09	0.013	0.12	1.26	392	<0.2	<10	160	0.63	0.27	0.38	0.52	21.7	10.8	19
ZZ37960		0.15	0.007	0.21	1.39	81.1	<0.2	<10	200	1.08	0.23	1.06	0.55	30.8	11.8	21
ZZ37961		0.16	0.003	0.28	1.72	160.0	<0.2	<10	150	0.80	0.29	1.53	0.28	28.2	10.5	30
ZZ37962		0.17	0.004	0.25	1.52	239	<0.2	<10	260	1.16	0.26	1.46	0.70	36.0	10.4	26
ZZ37963		0.17	0.004	0.04	2.55	28.7	<0.2	<10	140	1.29	0.35	0.07	0.17	31.1	25.1	34
ZZ37964		0.19	0.006	0.13	1.59	27.2	<0.2	<10	190	1.02	0.32	0.88	0.21	21.0	17.7	25
ZZ37965		0.16	0.007	0.24	1.19	35.6	<0.2	<10	150	1.12	0.30	3.31	0.41	27.4	16.5	20
ZZ37966		0.17	0.020	0.23	1.70	25.6	<0.2	<10	320	1.25	0.25	1.09	0.25	26.5	15.7	28
ZZ37967		0.13	0.007	0.05	2.19	27.4	<0.2	<10	130	0.90	0.31	0.05	0.18	18.80	24.4	31
ZZ37968		0.16	0.008	0.06	2.17	25.4	<0.2	<10	250	1.27	0.30	0.25	0.21	33.8	19.7	33
ZZ37969		0.14	0.018	0.05	0.42	22.3	<0.2	<10	120	1.14	0.29	0.76	0.15	29.9	12.3	27
ZZ37970		0.13	0.016	0.06	0.38	24.6	<0.2	<10	100	1.15	0.29	0.90	0.16	31.4	15.6	27
ZZ37971		0.16	0.003	0.04	2.30	14.7	<0.2	<10	140	0.59	0.34	0.07	0.22	26.6	14.0	33
ZZ37972		0.21	0.007	0.05	2.67	24.2	<0.2	<10	150	1.40	0.25	0.07	0.47	38.8	30.7	42
ZZ37973		0.13	0.006	0.14	1.51	13.2	<0.2	<10	210	0.78	0.25	1.93	0.34	24.2	13.0	26
ZZ37974		0.16	0.004	0.07	3.06	16.6	<0.2	<10	120	1.28	0.35	0.04	0.82	22.6	32.9	42
ZZ37975		0.11	0.003	0.07	1.21	6.6	<0.2	<10	200	0.46	0.22	0.30	0.30	18.30	9.3	21
ZZ37976		0.15	0.003	0.06	2.44	13.3	<0.2	<10	100	0.63	0.33	0.04	0.19	25.3	17.1	37
ZZ37977		0.12	0.012	0.07	1.16	8.9	<0.2	<10	140	0.34	0.26	0.04	0.18	29.6	9.4	18
ZZ37978		0.14	0.010	0.16	3.28	10.6	<0.2	<10	300	2.09	0.35	0.14	0.42	26.0	16.3	40
ZZ37979		0.17	0.003	0.07	1.96	8.0	<0.2	<10	160	0.62	0.32	0.03	0.14	29.4	13.8	25
ZZ37980		0.17	0.007	0.07	2.00	11.3	<0.2	<10	150	0.92	0.31	0.37	0.12	29.5	17.8	30
ZZ37981		0.14	0.004	0.04	0.93	12.6	<0.2	<10	60	0.23	0.33	0.03	0.14	26.3	12.4	23
ZZ37982		0.10	0.004	0.07	1.59	10.8	<0.2	<10	420	0.45	0.29	0.68	0.28	21.3	10.1	28
ZZ37983		0.14	0.024	0.23	1.26	5.0	<0.2	<10	420	0.64	0.18	2.51	0.54	13.35	10.5	20
ZZ37984		0.18	0.007	0.05	1.36	10.7	<0.2	<10	170	0.37	0.31	0.19	0.21	23.1	7.1	23
ZZ37985		0.13	0.007	0.09	1.65	7.8	<0.2	<10	320	0.93	0.29	1.38	0.56	25.9	17.7	25
ZZ37986		0.14	0.006	0.07	2.16	8.1	<0.2	<10	270	1.06	0.30	0.46	0.47	30.8	24.3	39
ZZ37987		0.16	0.006	0.16	1.55	10.5	<0.2	<10	190	0.86	0.25	1.21	0.27	22.4	15.1	25
ZZ37988		0.13	NSS	0.14	1.47	6.2	<0.2	<10	150	0.66	0.15	2.57	0.31	13.30	14.5	21
ZZ37989		0.13	0.013	0.21	1.99	13.7	<0.2	<10	350	1.07	0.29	1.62	0.53	25.6	17.4	31
ZZ37990		0.09	0.017	0.18	1.07	6.8	<0.2	10	320	0.57	0.19	3.29	0.52	21.7	10.2	16



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**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ37951		1.27	23.9	3.56	2.92	0.06	0.10	0.11	0.043	0.15	12.9	12.9	0.40	312	1.43	<0.01
ZZ37952		1.71	42.4	4.84	5.02	<0.05	0.07	0.09	0.039	0.09	8.4	36.2	0.55	950	0.73	<0.01
ZZ37953		3.49	22.7	3.26	5.00	0.05	0.07	0.02	0.043	0.08	6.5	31.7	0.30	1860	0.93	<0.01
ZZ37954		2.04	24.7	3.79	8.04	0.05	0.07	0.05	0.031	0.05	12.9	27.1	0.36	318	1.53	<0.01
ZZ37955		2.48	20.0	4.41	10.45	<0.05	0.03	0.02	0.038	0.11	4.1	13.9	0.23	351	0.75	<0.01
ZZ37956		1.64	14.6	3.69	7.68	<0.05	0.05	0.06	0.043	0.05	12.1	27.3	0.35	389	1.69	<0.01
ZZ37957		2.88	24.6	3.72	8.06	0.05	0.08	0.05	0.038	0.14	6.5	44.6	0.60	843	0.72	<0.01
ZZ37958		1.78	31.7	3.48	5.47	0.05	0.04	0.27	0.038	0.06	12.1	21.5	0.48	651	1.07	<0.01
ZZ37959		1.39	19.2	2.86	4.22	<0.05	<0.02	0.77	0.034	0.05	9.5	14.2	0.28	1400	0.87	<0.01
ZZ37960		1.12	30.6	3.95	3.95	0.06	0.05	0.58	0.038	0.04	15.4	12.0	0.49	1760	0.81	<0.01
ZZ37961		0.96	14.1	3.30	4.91	0.05	0.03	0.76	0.032	0.06	13.2	14.3	1.06	910	1.09	0.01
ZZ37962		0.89	19.2	6.47	3.89	0.08	0.07	1.27	0.034	0.05	20.8	11.6	0.71	3580	0.91	0.01
ZZ37963		1.95	58.7	5.16	6.28	0.06	0.08	0.10	0.057	0.07	11.1	36.7	0.72	722	0.84	<0.01
ZZ37964		2.60	60.8	4.18	4.91	0.06	0.08	0.19	0.042	0.09	9.5	24.7	0.66	637	0.71	<0.01
ZZ37965		2.92	57.4	4.06	3.82	0.09	0.09	0.18	0.050	0.10	13.7	16.7	0.44	597	0.71	<0.01
ZZ37966		1.98	81.9	3.85	5.17	0.07	0.07	0.25	0.047	0.10	15.1	24.9	0.76	464	0.93	<0.01
ZZ37967		2.02	65.5	4.91	6.37	<0.05	0.08	0.11	0.060	0.07	7.8	29.3	0.64	643	1.16	<0.01
ZZ37968		3.20	51.4	4.46	6.74	0.06	0.05	0.05	0.054	0.08	11.5	30.6	0.70	575	1.19	<0.01
ZZ37969		1.54	45.4	3.16	1.78	0.06	0.07	0.07	0.042	0.07	10.0	5.0	0.12	112	0.40	<0.01
ZZ37970		1.32	37.9	3.88	1.68	0.07	0.08	0.07	0.043	0.07	9.7	4.8	0.16	132	0.57	<0.01
ZZ37971		1.82	34.7	4.03	8.24	<0.05	0.10	0.06	0.044	0.05	12.1	27.7	0.51	348	1.68	<0.01
ZZ37972		1.89	93.4	4.92	5.84	0.08	0.13	0.16	0.066	0.07	11.3	29.7	0.79	1120	1.08	<0.01
ZZ37973		1.15	42.7	2.84	4.91	0.05	0.03	0.21	0.033	0.06	10.5	16.5	0.48	416	0.90	0.01
ZZ37974		3.58	117.5	6.30	9.52	0.06	0.07	0.09	0.091	0.06	7.6	47.9	0.93	461	1.02	<0.01
ZZ37975		1.31	33.2	2.56	5.41	<0.05	<0.02	0.04	0.032	0.07	8.0	14.2	0.35	327	1.26	<0.01
ZZ37976		1.95	54.4	5.84	10.30	0.05	0.07	0.06	0.058	0.07	10.6	43.9	0.58	321	1.10	<0.01
ZZ37977		1.19	29.1	2.88	7.57	0.05	0.03	0.04	0.029	0.05	12.5	9.3	0.23	245	1.19	<0.01
ZZ37978		2.92	62.0	5.32	9.46	0.06	0.07	0.09	0.102	0.06	10.6	53.6	0.49	564	1.33	<0.01
ZZ37979		1.62	33.1	3.81	8.44	0.07	0.08	0.01	0.035	0.05	11.9	24.3	0.47	247	0.99	<0.01
ZZ37980		1.17	68.1	4.21	6.32	0.07	0.08	0.13	0.034	0.09	13.3	46.9	0.97	299	0.80	<0.01
ZZ37981		2.59	51.3	4.94	10.60	0.05	0.02	0.03	0.039	0.05	11.1	7.8	0.18	249	1.29	<0.01
ZZ37982		3.57	42.4	3.78	7.51	0.05	<0.02	0.04	0.046	0.04	9.6	25.2	0.39	544	1.42	<0.01
ZZ37983		1.39	68.7	2.31	3.49	<0.05	0.03	0.15	0.029	0.04	6.5	11.5	0.59	846	0.73	0.01
ZZ37984		2.10	20.3	3.90	9.15	<0.05	<0.02	0.02	0.034	0.04	10.8	15.5	0.27	232	1.99	<0.01
ZZ37985		1.67	61.8	2.97	4.76	0.06	0.03	0.11	0.043	0.05	12.6	17.3	0.50	1340	1.06	0.01
ZZ37986		5.21	79.0	4.85	10.10	0.07	<0.02	0.05	0.069	0.06	11.8	30.0	0.59	1100	1.17	<0.01
ZZ37987		1.26	82.2	3.42	4.46	0.06	0.05	0.14	0.033	0.07	10.1	24.7	0.65	1060	0.82	<0.01
ZZ37988		1.27	71.5	3.19	4.32	0.06	0.04	0.10	0.034	0.04	5.9	20.0	0.90	562	0.83	0.01
ZZ37989		4.53	119.5	4.10	5.90	0.07	0.05	0.27	0.050	0.12	11.3	26.8	0.85	1230	0.98	0.01
ZZ37990		1.59	76.6	2.20	3.19	0.06	0.03	0.24	0.024	0.05	9.9	12.4	0.48	844	0.92	0.01

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ37951		0.42	35.0	580	15.7	11.4	<0.001	0.07	0.30	5.8	0.9	0.6	74.8	<0.01	<0.01	2.4
ZZ37952		0.26	32.5	460	23.5	9.7	<0.001	0.02	0.43	5.2	0.7	0.5	12.1	<0.01	0.09	3.8
ZZ37953		0.28	19.5	560	34.5	13.8	<0.001	0.03	0.36	4.1	<0.2	0.6	8.5	<0.01	0.02	2.6
ZZ37954		1.02	18.6	210	18.2	14.3	<0.001	0.01	0.55	3.6	<0.2	0.9	8.1	<0.01	0.02	4.1
ZZ37955		0.94	15.1	270	11.9	19.5	0.002	0.01	0.37	3.9	<0.2	1.8	6.3	<0.01	0.03	3.6
ZZ37956		1.41	18.9	260	19.5	12.9	<0.001	0.02	0.54	3.3	<0.2	0.9	10.0	<0.01	0.04	3.9
ZZ37957		0.52	37.3	250	18.3	19.0	0.002	0.02	0.36	4.7	0.3	0.9	7.1	<0.01	<0.01	4.5
ZZ37958		0.68	29.2	550	21.2	11.6	0.001	0.02	0.63	4.8	0.4	0.6	13.4	<0.01	0.03	3.1
ZZ37959		0.44	17.2	780	27.1	9.2	0.001	0.04	0.37	3.6	0.3	0.6	14.1	<0.01	0.03	1.0
ZZ37960		0.42	24.4	1060	24.6	7.1	<0.001	0.07	0.50	4.8	1.0	0.4	29.7	<0.01	0.04	1.2
ZZ37961		0.81	23.9	770	21.9	9.2	0.001	0.05	0.69	2.9	0.6	0.6	16.9	<0.01	0.01	1.4
ZZ37962		0.50	23.5	1110	46.3	7.3	0.001	0.06	0.52	4.7	0.8	0.5	25.2	<0.01	0.03	2.2
ZZ37963		0.24	42.2	230	23.4	12.9	0.001	0.02	0.49	7.0	0.5	0.6	7.6	<0.01	0.05	4.8
ZZ37964		0.24	34.9	730	20.1	9.0	<0.001	0.05	0.57	7.0	0.7	0.5	24.0	<0.01	0.08	2.4
ZZ37965		0.18	33.2	840	21.7	11.7	0.001	0.05	0.53	9.5	1.3	0.8	127.0	<0.01	0.07	2.9
ZZ37966		0.34	36.5	590	15.4	9.5	0.002	0.05	0.59	8.3	1.7	0.5	67.0	<0.01	0.03	1.9
ZZ37967		0.52	35.2	330	17.3	12.7	0.001	0.02	0.69	5.8	0.4	0.6	8.7	<0.01	0.10	3.3
ZZ37968		0.40	39.5	520	17.7	14.6	0.001	0.03	0.60	7.5	0.9	0.6	19.1	<0.01	0.08	3.6
ZZ37969		0.11	37.9	920	20.0	5.9	0.002	0.05	0.25	4.9	1.7	0.4	34.8	<0.01	0.01	4.1
ZZ37970		0.11	42.3	980	24.9	5.4	0.001	0.06	0.30	5.3	1.4	0.4	36.2	<0.01	<0.01	5.9
ZZ37971		1.25	25.3	230	15.8	11.6	<0.001	0.01	0.64	4.5	0.3	0.9	9.0	<0.01	0.04	4.3
ZZ37972		0.60	50.3	460	21.3	10.9	<0.001	0.02	0.61	12.7	1.1	0.5	18.4	<0.01	0.09	6.1
ZZ37973		0.80	26.9	900	13.8	8.2	0.001	0.09	0.73	4.4	1.3	0.5	126.5	<0.01	0.05	0.9
ZZ37974		0.46	48.4	310	34.5	13.8	0.001	0.02	1.33	8.9	0.7	0.7	5.4	<0.01	0.11	3.4
ZZ37975		0.55	18.0	800	10.2	8.2	<0.001	0.04	0.36	1.6	<0.2	0.6	14.4	<0.01	0.03	0.3
ZZ37976		0.83	29.0	390	15.5	12.4	0.001	0.02	0.61	5.2	0.6	0.9	5.3	<0.01	0.09	3.1
ZZ37977		0.53	12.9	250	10.0	9.5	<0.001	0.02	0.39	2.9	<0.2	0.8	5.2	<0.01	0.04	2.6
ZZ37978		1.43	27.7	600	15.8	12.2	<0.001	0.04	0.50	8.5	0.9	0.8	11.3	<0.01	0.04	4.6
ZZ37979		0.65	21.4	150	12.6	13.8	0.001	0.01	0.44	3.7	<0.2	0.9	5.4	<0.01	0.11	3.3
ZZ37980		0.20	37.1	550	14.9	6.4	0.001	0.02	0.55	7.8	0.9	0.4	18.9	<0.01	0.04	4.4
ZZ37981		0.85	14.3	280	8.6	9.4	0.001	0.02	0.76	3.3	<0.2	0.7	4.4	<0.01	0.09	2.4
ZZ37982		1.28	18.5	440	12.5	8.1	<0.001	0.04	0.79	3.9	0.5	0.8	17.9	<0.01	0.05	1.7
ZZ37983		0.45	18.4	1550	9.1	6.8	0.001	0.21	0.45	3.5	4.3	0.4	51.5	<0.01	0.03	0.3
ZZ37984		1.61	13.1	280	13.2	8.0	0.001	0.02	0.75	2.4	0.2	0.9	9.9	<0.01	0.09	2.3
ZZ37985		0.59	18.7	1120	15.1	8.7	0.001	0.11	0.49	5.1	2.8	0.5	41.0	<0.01	0.03	0.8
ZZ37986		0.76	23.9	960	14.3	12.4	0.001	0.06	0.55	7.3	0.8	0.9	14.7	<0.01	0.13	1.3
ZZ37987		0.33	28.8	870	14.6	6.8	0.003	0.07	0.55	5.8	3.4	0.4	33.2	<0.01	0.06	1.4
ZZ37988		0.26	27.5	840	9.8	4.4	0.001	0.13	0.42	4.4	2.0	0.8	70.2	<0.01	0.05	0.5
ZZ37989		0.38	31.8	990	16.3	13.2	<0.001	0.09	0.65	9.0	2.1	0.5	44.8	<0.01	0.08	0.9
ZZ37990		0.44	17.4	1070	10.0	7.3	0.001	0.15	0.58	2.5	3.1	0.3	83.9	<0.01	0.04	0.4

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**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ37951		<0.005	0.19	0.62	20	0.06	13.05	90	4.9
ZZ37952		0.005	0.18	0.81	34	0.08	6.69	80	1.9
ZZ37953		0.005	0.10	0.82	28	0.07	6.51	69	1.6
ZZ37954		0.018	0.14	0.61	68	0.19	2.93	55	2.6
ZZ37955		0.013	0.12	0.78	50	0.34	3.43	55	1.2
ZZ37956		0.020	0.19	0.68	66	0.26	3.08	79	1.5
ZZ37957		0.011	0.15	0.52	29	0.06	5.43	99	2.3
ZZ37958		0.015	0.39	1.03	46	0.17	7.28	89	0.9
ZZ37959		0.011	0.66	2.07	39	0.13	7.35	91	<0.5
ZZ37960		0.012	0.37	2.04	37	0.10	15.75	91	1.3
ZZ37961		0.027	0.62	0.97	52	0.28	7.56	115	0.8
ZZ37962		0.016	0.78	2.24	40	0.16	17.00	124	1.6
ZZ37963		<0.005	0.19	0.72	53	0.05	6.08	76	2.9
ZZ37964		0.007	0.14	1.09	42	0.05	9.24	76	2.0
ZZ37965		<0.005	0.26	1.38	35	<0.05	24.3	108	2.2
ZZ37966		0.007	0.16	3.61	46	0.05	17.00	75	2.2
ZZ37967		0.008	0.12	0.50	62	0.10	3.53	72	1.9
ZZ37968		0.005	0.14	0.72	60	0.09	7.98	84	1.7
ZZ37969		<0.005	0.07	3.26	23	<0.05	15.20	102	2.2
ZZ37970		<0.005	0.07	2.50	24	0.06	14.80	119	2.7
ZZ37971		0.025	0.16	0.62	80	0.22	3.17	58	3.3
ZZ37972		0.014	0.13	1.35	59	0.11	10.40	76	4.3
ZZ37973		0.019	0.09	3.23	46	0.11	11.20	70	0.9
ZZ37974		0.006	0.11	0.40	81	0.06	4.75	68	2.6
ZZ37975		0.014	0.08	0.45	52	0.14	3.69	40	<0.5
ZZ37976		0.013	0.11	0.37	97	0.09	2.60	61	2.2
ZZ37977		0.013	0.09	0.33	69	0.08	2.39	32	0.6
ZZ37978		0.020	0.16	0.88	74	0.21	7.94	78	2.1
ZZ37979		0.013	0.12	0.40	72	0.09	2.45	44	2.3
ZZ37980		0.008	0.05	0.62	43	<0.05	9.57	83	3.0
ZZ37981		0.022	0.07	0.29	102	0.10	1.76	41	0.7
ZZ37982		0.038	0.09	0.51	83	0.21	5.44	65	0.5
ZZ37983		0.013	0.07	1.06	37	0.06	11.00	81	1.0
ZZ37984		0.037	0.09	0.48	89	0.29	2.31	54	<0.5
ZZ37985		0.018	0.10	1.58	47	0.11	16.40	61	0.7
ZZ37986		0.020	0.11	0.50	114	0.11	10.55	75	<0.5
ZZ37987		0.009	0.08	1.76	41	0.05	12.50	59	1.4
ZZ37988		0.009	0.05	1.30	42	<0.05	9.20	53	1.0
ZZ37989		0.011	0.11	1.50	50	0.11	19.05	112	1.3
ZZ37990		0.014	0.07	1.41	30	0.08	11.20	62	0.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ37991		0.20	0.007	0.11	1.95	9.7	<0.2	<10	130	0.72	0.26	0.78	0.16	25.2	14.8	32
ZZ37992		0.11	0.010	0.10	1.55	9.0	<0.2	10	150	0.78	0.24	1.63	0.32	20.2	15.0	23
ZZ37993		0.19	0.006	0.07	1.85	11.2	<0.2	<10	130	0.80	0.30	0.96	0.22	31.3	18.5	29
ZZ37994		0.18	0.002	0.08	1.74	9.6	<0.2	10	150	0.81	0.27	1.25	0.22	23.3	15.7	26
ZZ37995		0.22	0.004	0.09	1.94	12.4	<0.2	10	170	0.96	0.31	0.68	0.24	29.4	19.0	30
ZZ37996		0.15	0.005	0.09	1.32	101.5	<0.2	10	140	0.78	0.23	1.24	0.19	15.60	11.0	21
ZZ37997		0.14	0.005	0.17	1.66	17.7	<0.2	<10	230	0.80	0.30	1.21	0.21	29.5	13.0	27
ZZ37998		0.18	0.011	0.06	2.04	12.5	<0.2	<10	160	0.89	0.31	0.43	0.12	30.2	16.5	31
ZZ37999		0.16	0.009	0.09	2.01	13.6	<0.2	<10	150	1.11	0.32	0.33	0.11	40.0	20.9	31
ZZ38000		0.15	0.007	0.02	1.37	7.3	<0.2	<10	140	0.38	0.29	0.48	0.13	27.1	8.6	27
ZZ32001		0.14	0.016	0.08	1.45	98.3	<0.2	<10	150	0.77	0.26	0.78	0.20	22.4	14.8	24
ZZ32002		0.16	0.005	0.10	1.41	131.0	<0.2	<10	160	0.81	0.25	0.55	0.17	22.4	13.5	23
ZZ32003		0.22	0.003	0.24	1.82	117.5	<0.2	<10	180	1.00	0.28	0.53	0.22	29.4	16.2	30
ZZ32004		0.23	0.005	0.13	1.76	108.5	<0.2	<10	150	0.89	0.30	0.56	0.17	26.8	16.0	29
ZZ32005		0.17	0.003	0.09	1.56	107.5	<0.2	<10	150	0.71	0.29	0.74	0.21	20.6	14.5	24
ZZ32006		0.15	0.004	0.07	1.74	138.5	<0.2	<10	140	0.87	0.31	0.46	0.17	21.4	12.2	26
ZZ32007		0.18	0.002	0.14	1.70	48.8	<0.2	<10	180	0.96	0.31	0.43	0.34	23.5	12.0	27
ZZ32008		0.17	0.005	0.16	1.87	162.5	<0.2	<10	190	1.02	0.33	0.50	0.50	23.3	22.7	29
ZZ32009		0.14	0.002	0.10	1.75	131.5	<0.2	<10	140	0.99	0.32	0.35	0.12	22.5	17.4	27
ZZ32010		0.19	0.013	0.43	0.77	20.0	<0.2	<10	310	0.36	0.33	0.02	0.75	12.45	5.2	13
ZZ32011		0.22	0.007	1.09	1.41	21.7	<0.2	<10	300	0.52	0.35	0.03	0.56	17.65	11.4	20
ZZ32012		0.17	0.003	0.59	0.95	10.6	<0.2	<10	330	0.31	0.34	0.02	0.52	15.45	3.2	15
ZZ32013		0.19	0.005	1.43	1.45	28.0	<0.2	<10	460	0.57	0.34	0.04	0.66	19.00	4.7	24
ZZ32014		0.10	0.153	3.87	1.32	57.1	<0.2	<10	690	0.88	0.36	0.05	1.41	18.80	5.2	26
ZZ32015		0.16	0.003	1.01	1.18	35.1	<0.2	<10	570	0.57	0.27	0.22	0.43	12.75	4.7	31
ZZ32016		0.11	0.006	2.46	0.98	28.1	<0.2	<10	1710	0.49	0.38	1.06	5.18	10.35	3.9	37
ZZ32017		0.17	0.008	3.97	1.06	50.4	<0.2	<10	3440	0.86	0.22	1.80	4.49	10.35	9.9	50
ZZ32018		0.17	0.005	1.07	0.62	31.9	<0.2	<10	1990	0.68	0.19	1.08	0.78	5.44	5.3	28
ZZ32019		0.20	0.008	1.21	0.57	37.7	<0.2	10	1030	0.40	0.31	0.03	0.29	4.19	2.4	22
ZZ32020		0.16	0.002	0.89	0.82	56.7	<0.2	<10	340	0.33	0.27	0.02	0.34	8.86	5.8	46
ZZ32021		0.15	0.004	0.66	0.97	53.4	<0.2	<10	800	0.56	0.28	0.02	0.31	11.20	4.9	27
ZZ32022		0.10	0.001	2.18	0.76	79.9	<0.2	<10	550	0.22	0.26	0.03	2.01	11.55	2.5	94
ZZ32023		0.20	0.003	0.69	0.43	92.0	<0.2	<10	220	0.21	0.30	<0.01	0.07	6.53	0.8	10
ZZ32024		0.19	0.015	1.57	1.05	539	<0.2	<10	220	1.06	0.23	7.08	3.64	16.05	6.4	19
ZZ32025		0.12	0.002	0.36	2.12	157.0	<0.2	<10	320	1.14	0.34	0.46	1.77	25.3	12.4	32
ZZ32026		0.13	0.003	0.28	2.19	113.0	<0.2	<10	180	1.11	0.30	0.84	0.99	26.8	7.6	32
ZZ32027		0.17	0.003	0.11	1.94	77.8	<0.2	<10	180	1.01	0.31	0.41	1.11	27.2	12.5	32
ZZ32028		0.23	0.006	0.28	1.82	69.3	<0.2	<10	240	1.25	0.31	1.44	0.55	33.5	11.2	31
ZZ32029		0.14	0.011	0.46	1.61	143.0	<0.2	<10	140	1.44	0.25	8.73	1.00	19.25	8.4	24
ZZ32030		0.13	0.002	0.35	1.60	55.0	<0.2	<10	280	1.05	0.28	1.30	0.72	23.6	11.2	27

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ37991		3.89	49.3	4.13	6.26	0.08	0.08	0.18	0.040	0.10	10.3	40.7	1.09	350	0.70	0.01
ZZ37992		2.01	64.4	3.47	4.83	0.06	0.09	0.17	0.029	0.10	8.5	31.2	0.92	642	0.93	0.01
ZZ37993		1.78	55.0	4.28	5.68	0.07	0.11	0.16	0.032	0.14	12.5	42.9	1.03	758	0.70	0.01
ZZ37994		1.67	55.6	3.78	5.17	0.05	0.10	0.14	0.031	0.13	10.2	38.1	0.89	697	0.59	0.01
ZZ37995		1.39	64.0	4.71	5.84	0.08	0.10	0.16	0.033	0.13	11.9	42.2	1.02	732	0.76	0.01
ZZ37996		2.48	44.6	3.37	4.09	<0.05	0.06	0.23	0.033	0.09	6.6	24.1	0.74	219	0.60	0.01
ZZ37997		1.39	37.9	3.12	5.42	0.05	0.05	0.13	0.036	0.07	12.9	28.3	0.57	778	0.96	0.01
ZZ37998		1.41	50.5	4.47	6.02	0.05	0.05	0.06	0.043	0.09	10.7	43.9	0.80	587	0.81	0.01
ZZ37999		1.33	76.6	4.80	6.24	0.09	0.09	0.16	0.041	0.10	17.7	41.8	0.99	739	0.77	0.01
ZZ38000		1.04	21.1	3.05	7.20	<0.05	0.02	0.02	0.032	0.06	10.6	19.4	0.50	426	0.97	0.01
ZZ32001		2.80	51.5	3.61	4.64	0.05	0.05	0.17	0.032	0.09	8.7	23.9	0.63	538	0.71	0.01
ZZ32002		3.53	48.4	3.77	4.64	0.06	0.05	0.19	0.037	0.08	9.4	25.9	0.63	347	0.65	0.01
ZZ32003		3.45	67.6	4.34	5.69	0.06	0.06	0.19	0.040	0.10	11.3	30.9	0.79	404	0.84	0.01
ZZ32004		3.68	70.9	4.29	5.47	0.06	0.06	0.22	0.047	0.11	10.9	30.6	0.76	409	0.92	0.01
ZZ32005		2.46	52.6	3.92	4.74	0.05	0.06	0.14	0.040	0.08	8.6	30.5	0.69	376	0.72	<0.01
ZZ32006		3.38	47.4	4.26	5.23	0.06	0.08	0.20	0.043	0.09	8.9	30.2	0.69	151	0.60	<0.01
ZZ32007		4.05	67.6	2.81	5.10	0.06	0.08	0.25	0.036	0.10	10.2	30.3	0.67	253	0.31	<0.01
ZZ32008		3.39	74.2	4.70	5.87	0.07	0.10	0.22	0.044	0.11	9.8	34.2	0.71	976	0.90	<0.01
ZZ32009		3.60	42.8	4.30	5.25	<0.05	0.07	0.18	0.045	0.09	9.3	30.4	0.68	717	0.84	<0.01
ZZ32010		5.08	45.6	2.12	3.71	<0.05	<0.02	0.08	0.032	0.10	6.0	2.0	0.04	80	4.20	<0.01
ZZ32011		3.98	41.2	3.56	4.76	<0.05	0.02	0.09	0.046	0.14	7.7	11.3	0.15	733	4.02	0.01
ZZ32012		2.72	24.4	1.95	5.13	<0.05	<0.02	0.06	0.029	0.11	7.8	2.4	0.06	106	3.62	0.01
ZZ32013		2.39	37.7	4.68	6.05	<0.05	<0.02	0.11	0.047	0.16	8.7	6.6	0.14	285	6.53	0.02
ZZ32014		2.34	115.0	4.82	5.59	0.06	<0.02	0.41	0.072	0.30	8.0	6.9	0.14	195	12.85	0.05
ZZ32015		1.52	32.3	2.85	4.44	0.05	0.03	0.16	0.028	0.09	7.5	7.5	0.18	132	6.34	<0.01
ZZ32016		2.00	35.0	2.22	4.04	0.05	0.02	0.28	0.056	0.15	6.4	5.7	0.11	147	7.99	0.01
ZZ32017		0.94	84.8	2.76	3.07	<0.05	0.05	0.69	0.032	0.07	6.6	6.9	0.16	418	15.65	<0.01
ZZ32018		1.60	42.6	2.53	1.91	<0.05	0.04	0.28	0.034	0.06	3.4	2.8	0.11	180	6.96	<0.01
ZZ32019		15.05	36.3	3.50	2.62	<0.05	<0.02	0.12	0.050	0.16	2.5	0.9	0.02	35	8.26	<0.01
ZZ32020		3.76	40.0	3.90	3.64	0.06	<0.02	0.12	0.035	0.07	5.1	2.5	0.07	105	6.04	<0.01
ZZ32021		5.14	37.8	3.32	4.48	<0.05	<0.02	0.10	0.035	0.10	5.9	3.8	0.07	127	5.80	<0.01
ZZ32022		1.95	24.5	1.99	4.55	0.06	<0.02	0.12	0.022	0.05	6.6	2.5	0.05	51	53.0	<0.01
ZZ32023		2.91	13.1	1.22	2.87	<0.05	<0.02	0.12	0.022	0.14	3.4	1.0	0.02	12	6.64	<0.01
ZZ32024		1.62	16.0	2.71	3.63	0.05	0.03	9.96	0.032	0.07	8.7	8.0	4.13	312	4.01	<0.01
ZZ32025		1.98	15.9	3.53	6.62	<0.05	0.06	0.86	0.039	0.08	10.9	17.2	0.46	908	2.49	0.01
ZZ32026		1.81	8.2	2.98	6.37	<0.05	0.04	0.50	0.033	0.06	12.6	13.9	0.56	352	1.32	0.01
ZZ32027		1.68	15.8	3.36	5.85	<0.05	0.04	0.20	0.037	0.09	11.7	17.7	0.54	477	1.89	0.01
ZZ32028		1.18	16.4	3.16	5.45	0.05	0.05	0.48	0.033	0.07	18.6	16.0	1.02	510	1.38	0.01
ZZ32029		1.24	18.0	2.77	4.53	<0.05	0.10	0.55	0.036	0.10	13.1	11.9	5.00	337	1.98	0.01
ZZ32030		1.11	33.4	3.21	4.56	<0.05	0.05	0.44	0.035	0.08	11.6	16.2	0.80	459	1.94	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ37991		0.23	32.1	470	10.2	11.2	0.002	0.05	0.34	7.9	1.7	0.3	52.3	<0.01	0.08	2.8
ZZ37992		0.18	29.4	730	12.5	9.2	0.003	0.10	0.47	5.5	3.0	0.3	104.5	<0.01	0.08	1.5
ZZ37993		0.12	34.7	550	17.2	8.7	0.002	0.06	0.48	6.9	1.5	0.3	75.5	<0.01	0.08	4.2
ZZ37994		0.14	31.4	590	14.5	8.9	0.002	0.08	0.47	6.2	1.7	0.3	139.0	<0.01	0.06	3.0
ZZ37995		0.14	33.8	570	17.0	7.8	0.003	0.10	0.42	7.4	2.4	0.3	106.5	<0.01	0.07	4.2
ZZ37996		0.17	23.7	570	13.7	10.9	0.003	0.11	0.36	5.5	2.7	0.4	169.5	<0.01	0.07	1.6
ZZ37997		0.64	26.1	630	14.9	9.7	<0.001	0.05	0.50	5.2	1.5	0.5	74.0	<0.01	0.07	1.9
ZZ37998		0.27	35.4	410	16.9	9.6	<0.001	0.02	0.49	5.2	<0.2	0.4	27.2	<0.01	0.10	3.7
ZZ37999		0.11	41.3	340	17.0	7.5	<0.001	0.01	0.59	9.6	0.9	0.3	24.4	<0.01	0.08	5.2
ZZ38000		0.54	15.7	310	10.4	11.2	<0.001	0.02	0.28	3.4	<0.2	0.7	22.5	<0.01	0.08	2.4
ZZ32001		0.20	26.8	650	14.7	10.9	<0.001	0.05	0.37	6.5	1.4	0.4	50.0	<0.01	0.08	2.0
ZZ32002		0.20	28.5	530	13.7	10.2	<0.001	0.03	0.42	7.1	0.9	0.4	29.0	<0.01	0.06	2.5
ZZ32003		0.23	32.6	680	17.6	12.4	0.001	0.04	0.41	9.1	1.5	0.4	29.4	<0.01	0.09	3.1
ZZ32004		0.24	32.9	640	17.0	13.3	<0.001	0.03	0.45	9.2	0.8	0.5	32.8	<0.01	0.07	3.1
ZZ32005		0.18	27.7	600	14.9	9.9	<0.001	0.03	0.45	6.6	1.1	0.4	41.0	<0.01	0.09	2.1
ZZ32006		0.20	22.1	680	18.1	11.8	0.001	0.05	0.41	7.5	1.6	0.4	36.7	<0.01	0.07	2.5
ZZ32007		0.27	28.7	650	17.7	13.6	0.001	0.05	0.41	9.2	1.0	0.4	35.4	<0.01	0.05	3.3
ZZ32008		0.25	35.0	990	18.5	14.8	0.001	0.05	0.48	9.6	2.7	0.4	44.3	<0.01	0.10	3.0
ZZ32009		0.22	25.3	660	16.9	13.5	<0.001	0.02	0.41	7.5	1.3	0.4	28.9	<0.01	0.09	2.5
ZZ32010		0.43	25.6	620	19.0	17.6	<0.001	0.06	2.34	0.9	2.3	0.6	19.1	<0.01	0.09	0.4
ZZ32011		0.75	20.7	590	19.5	23.0	<0.001	0.15	2.03	3.1	2.9	0.7	29.0	<0.01	0.10	4.4
ZZ32012		0.56	12.8	430	13.1	17.5	<0.001	0.06	1.32	1.5	0.9	0.8	14.2	<0.01	0.08	0.7
ZZ32013		0.75	17.8	1010	18.0	18.0	<0.001	0.28	2.94	1.7	3.4	0.9	47.2	<0.01	0.14	0.9
ZZ32014		0.32	18.7	1970	22.0	21.2	0.001	0.72	7.50	1.6	7.0	1.0	80.0	<0.01	0.19	0.3
ZZ32015		0.23	18.1	3550	16.0	13.8	0.004	0.07	1.38	1.4	5.0	0.5	68.0	<0.01	0.10	0.5
ZZ32016		0.24	42.6	2640	18.5	19.7	0.012	0.29	2.55	1.3	8.8	0.6	140.5	<0.01	0.18	0.4
ZZ32017		0.26	92.9	2030	13.2	7.9	0.009	0.10	2.77	3.7	6.6	0.5	144.0	<0.01	0.10	0.9
ZZ32018		0.10	57.9	780	10.0	6.8	0.005	0.06	1.80	4.4	6.6	0.5	107.5	<0.01	0.09	0.8
ZZ32019		0.16	22.8	860	17.5	16.6	0.001	0.26	2.36	3.5	9.5	0.5	99.3	<0.01	0.16	0.6
ZZ32020		0.47	80.5	530	13.4	14.3	<0.001	0.01	1.84	3.0	10.7	0.6	30.3	<0.01	0.11	1.6
ZZ32021		0.47	35.4	650	14.0	13.4	<0.001	0.15	1.45	5.7	3.6	0.7	81.4	<0.01	0.08	1.4
ZZ32022		0.23	89.5	740	16.5	10.2	0.001	0.03	15.80	0.6	18.2	0.7	22.3	<0.01	0.14	0.2
ZZ32023		0.16	6.4	310	23.8	14.3	0.001	0.18	2.38	0.8	1.5	0.5	51.2	<0.01	0.09	1.7
ZZ32024		0.44	39.4	470	196.0	10.7	0.001	0.02	6.23	3.5	1.4	0.5	30.7	<0.01	0.05	1.5
ZZ32025		0.82	31.0	220	43.7	17.3	<0.001	0.01	1.27	4.1	1.0	0.8	14.3	<0.01	0.05	3.7
ZZ32026		1.03	21.0	330	29.2	15.2	<0.001	0.02	0.71	3.9	0.9	0.7	11.7	<0.01	0.03	2.8
ZZ32027		0.71	32.3	230	27.0	15.9	<0.001	0.01	0.86	4.5	1.1	0.7	14.6	<0.01	0.05	4.0
ZZ32028		0.82	31.4	340	22.9	10.2	<0.001	0.01	0.85	5.4	1.1	0.6	21.9	<0.01	0.05	3.8
ZZ32029		0.41	30.6	530	44.0	13.5	<0.001	0.02	1.21	5.6	1.1	0.6	50.0	<0.01	0.05	2.6
ZZ32030		0.52	35.1	470	19.9	10.5	<0.001	0.02	1.04	4.5	1.1	0.5	20.2	<0.01	0.05	2.0





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ37991		0.011	0.05	0.45	48	<0.05	7.33	89	2.5
ZZ37992		0.006	0.06	1.02	35	<0.05	9.25	101	2.8
ZZ37993		0.005	0.06	0.58	39	<0.05	9.28	103	3.9
ZZ37994		0.005	0.07	0.71	36	<0.05	8.75	93	3.5
ZZ37995		0.005	0.05	1.16	43	<0.05	9.77	95	4.1
ZZ37996		0.006	0.37	1.49	35	<0.05	8.52	96	1.9
ZZ37997		0.016	0.12	4.83	44	0.13	10.15	64	1.5
ZZ37998		0.007	0.07	0.58	46	0.06	4.45	87	2.2
ZZ37999		0.006	0.07	0.70	47	<0.05	12.60	87	4.1
ZZ38000		0.018	0.11	0.53	66	0.12	2.58	57	0.7
ZZ32001		0.007	0.35	3.10	41	0.05	9.21	78	1.7
ZZ32002		0.008	0.42	1.63	39	0.06	9.79	88	1.6
ZZ32003		0.007	0.44	3.81	51	0.05	11.55	99	1.9
ZZ32004		0.008	0.45	6.50	49	0.05	11.65	110	2.0
ZZ32005		0.008	0.29	1.60	40	0.05	8.86	92	1.7
ZZ32006		0.005	0.45	4.21	45	<0.05	9.98	84	2.1
ZZ32007		0.007	0.51	4.42	42	0.08	12.20	97	2.3
ZZ32008		0.006	0.49	7.36	49	0.06	11.70	108	3.1
ZZ32009		0.008	0.41	2.52	45	0.06	8.40	97	1.8
ZZ32010		0.009	0.21	0.98	59	0.12	4.79	147	<0.5
ZZ32011		0.017	0.44	0.91	60	0.21	5.36	131	0.9
ZZ32012		0.014	0.26	0.57	68	0.15	2.84	77	<0.5
ZZ32013		0.017	0.52	1.42	111	0.20	2.93	115	<0.5
ZZ32014		0.008	1.00	6.08	134	0.15	10.70	110	<0.5
ZZ32015		0.006	0.65	3.38	92	0.11	5.72	74	0.8
ZZ32016		0.005	0.70	3.17	107	0.13	10.05	159	0.6
ZZ32017		0.005	0.48	11.05	128	0.16	37.3	464	1.3
ZZ32018		<0.005	0.35	2.38	68	0.06	22.1	199	1.4
ZZ32019		0.005	0.56	1.10	65	0.07	3.19	109	<0.5
ZZ32020		0.011	0.42	1.01	103	0.16	7.80	304	0.6
ZZ32021		0.011	0.61	1.03	80	0.18	6.71	141	<0.5
ZZ32022		0.011	1.66	1.26	386	0.52	3.45	442	<0.5
ZZ32023		<0.005	0.73	0.28	90	0.49	1.36	53	<0.5
ZZ32024		0.013	0.55	1.21	56	0.34	8.99	583	1.0
ZZ32025		0.017	0.54	0.99	78	0.30	4.77	365	2.2
ZZ32026		0.027	0.48	1.28	71	0.29	5.94	265	1.3
ZZ32027		0.016	0.35	0.94	68	0.19	6.00	206	1.8
ZZ32028		0.023	0.22	1.22	60	0.32	13.90	124	1.5
ZZ32029		0.007	0.44	1.45	56	0.23	16.55	175	2.7
ZZ32030		0.015	0.31	1.09	58	0.18	12.95	141	1.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52391		0.20	0.002	1.27	1.04	25.3	<0.2	<10	500	0.94	0.23	1.74	7.58	17.80	10.2	30
ZZ52392		0.18	0.003	0.42	0.85	14.4	<0.2	<10	400	0.59	0.18	2.29	3.11	12.90	8.0	18
ZZ52393		0.22	0.004	0.56	1.08	25.1	<0.2	<10	400	0.94	0.24	1.33	3.13	19.55	11.1	23
ZZ52394		0.22	0.001	0.25	0.99	19.2	<0.2	<10	370	0.64	0.24	1.23	3.12	13.80	8.1	22
ZZ52395		0.20	0.003	0.36	1.10	25.1	<0.2	<10	410	0.82	0.24	1.26	1.99	15.15	10.2	22
ZZ52396		0.18	0.003	0.83	0.69	12.5	<0.2	<10	430	0.74	0.16	3.15	6.55	13.10	5.9	23
ZZ52397		0.13	0.003	0.54	0.57	10.8	<0.2	<10	350	0.53	0.13	1.81	4.55	9.76	4.7	19
ZZ52398		0.18	0.002	0.78	0.63	12.6	<0.2	<10	310	0.77	0.16	1.33	9.34	13.70	3.6	23
ZZ52399		0.14	0.002	0.97	0.70	16.1	<0.2	<10	440	0.70	0.18	2.22	5.89	13.00	8.4	21
ZZ52400		0.15	0.004	0.63	0.62	22.7	<0.2	<10	580	0.60	0.15	1.57	4.12	12.10	8.7	17
ZZ52401		0.14	0.007	0.85	0.58	14.7	<0.2	<10	730	0.65	0.14	1.75	3.73	14.65	6.7	18
ZZ52402		0.09	0.015	0.92	0.53	25.0	<0.2	10	680	0.72	0.12	2.43	4.49	11.50	10.6	16
ZZ52403		0.14	0.004	0.86	0.62	13.8	<0.2	<10	670	0.57	0.13	1.72	2.43	12.95	6.3	18
ZZ52404		0.16	0.004	0.63	0.60	7.9	<0.2	<10	530	0.64	0.11	1.47	4.31	13.05	3.2	16
ZZ52405		0.12	0.006	0.66	0.84	6.9	<0.2	<10	680	0.63	0.15	2.06	2.28	13.90	7.1	19
ZZ52406		0.19	0.004	0.51	1.06	32.2	<0.2	<10	480	0.91	0.18	1.05	2.58	18.55	11.0	22
ZZ52407		0.15	0.005	0.41	1.07	16.5	<0.2	<10	490	0.84	0.17	1.29	1.69	15.00	12.8	21
ZZ52408		0.17	0.002	0.26	0.75	20.7	<0.2	<10	330	0.78	0.17	1.02	1.60	14.90	9.9	16
ZZ52409		0.18	0.003	0.28	0.85	24.4	<0.2	<10	460	0.73	0.15	1.31	1.16	15.55	9.8	17
ZZ52410		0.16	0.003	0.24	0.92	31.4	<0.2	<10	520	0.79	0.15	0.97	1.12	18.45	12.7	18
ZZ52411		0.09	0.002	0.48	0.84	11.4	<0.2	10	380	0.67	0.14	2.83	2.41	12.05	3.7	20
ZZ52412		0.18	0.003	0.48	0.68	47.4	<0.2	<10	420	0.83	0.15	1.47	2.42	12.60	9.5	24
ZZ52413		0.14	0.010	0.17	1.53	16.0	<0.2	<10	250	0.81	0.22	1.21	4.79	15.50	9.1	44
ZZ52414		0.19	0.014	0.47	1.00	23.7	<0.2	<10	330	0.89	0.19	0.98	1.93	17.55	9.8	21
ZZ52415		0.16	0.003	0.28	1.06	14.0	<0.2	<10	530	0.70	0.17	1.41	3.82	18.95	7.9	23
ZZ52416		0.28	0.002	0.20	1.02	21.8	<0.2	<10	300	1.21	0.25	0.21	0.97	12.15	13.0	36
ZZ52417		0.37	0.001	0.08	0.96	11.0	<0.2	<10	120	0.42	0.18	0.09	0.42	20.3	3.8	18
ZZ52418		0.21	0.001	0.25	1.12	18.1	<0.2	<10	350	0.90	0.19	1.51	0.78	9.14	13.2	24
ZZ52419		0.21	0.001	0.04	1.29	23.4	<0.2	<10	130	0.68	0.22	0.07	0.54	7.47	9.5	29
ZZ52420		0.26	0.002	0.09	2.24	21.1	<0.2	<10	230	0.98	0.19	0.22	0.46	33.3	11.9	34
ZZ52421		0.18	0.006	0.88	0.57	19.2	<0.2	<10	440	0.62	0.09	3.59	2.39	12.75	5.7	18
ZZ52422		0.24	0.004	0.57	0.86	24.7	<0.2	<10	410	0.64	0.15	1.58	1.48	17.60	7.8	20
ZZ52423		0.15	0.002	0.36	0.82	27.1	<0.2	<10	500	0.57	0.14	1.33	0.84	14.70	7.1	17
ZZ52424		0.21	0.002	0.30	1.05	36.8	<0.2	<10	380	0.85	0.18	1.36	1.62	21.5	13.1	20
ZZ52425		0.19	0.003	0.42	1.06	24.2	<0.2	<10	580	0.87	0.18	1.42	1.30	17.95	9.3	21
ZZ52426		0.19	0.003	0.54	0.96	35.3	<0.2	<10	510	0.74	0.15	1.44	0.91	14.60	8.3	19
ZZ52427		0.19	0.001	0.05	0.94	27.5	<0.2	<10	130	0.20	0.19	0.10	0.72	14.20	5.5	18
ZZ52428		0.27	0.004	0.43	1.18	39.1	<0.2	<10	950	0.96	0.18	2.53	1.03	20.3	11.0	21
ZZ52429		0.14	0.005	0.24	0.75	12.5	<0.2	<10	920	0.52	0.10	4.03	0.94	10.75	4.9	12
ZZ52430		0.20	0.005	0.57	1.21	59.9	<0.2	<10	1180	0.96	0.18	1.64	0.78	18.55	9.3	23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52391		0.74	58.8	2.61	3.53	0.07	0.04	0.37	0.036	0.09	11.6	12.7	0.40	374	10.35	<0.01
ZZ52392		0.48	29.4	1.95	2.70	0.05	0.04	0.23	0.029	0.06	7.9	9.5	0.25	570	5.12	<0.01
ZZ52393		0.82	43.5	2.87	3.69	<0.05	0.04	0.28	0.032	0.09	11.7	15.3	0.43	296	6.61	<0.01
ZZ52394		0.61	27.9	2.38	3.57	<0.05	0.03	0.14	0.029	0.08	8.2	10.5	0.22	273	7.59	<0.01
ZZ52395		0.69	36.7	3.11	3.26	0.05	0.04	0.25	0.032	0.08	8.3	13.4	0.32	419	4.72	<0.01
ZZ52396		0.52	36.4	1.43	2.10	<0.05	0.03	0.27	0.025	0.07	10.0	6.8	0.77	523	3.02	<0.01
ZZ52397		0.52	30.1	1.29	1.95	<0.05	0.03	0.15	0.017	0.07	6.4	5.0	0.16	210	4.03	<0.01
ZZ52398		0.54	48.2	1.34	2.18	<0.05	0.03	0.22	0.025	0.09	9.5	5.8	0.14	121	5.07	<0.01
ZZ52399		0.64	45.7	1.91	2.44	0.05	0.04	0.24	0.029	0.07	8.2	6.9	0.17	380	5.84	<0.01
ZZ52400		0.53	39.1	2.60	2.00	0.05	0.03	0.24	0.026	0.06	6.9	5.4	0.12	267	10.25	<0.01
ZZ52401		0.72	43.3	1.65	1.87	0.05	0.04	0.29	0.027	0.08	8.9	6.2	0.26	179	5.37	<0.01
ZZ52402		0.53	43.2	2.28	1.70	0.06	0.05	0.29	0.028	0.06	7.1	5.0	0.13	1020	4.89	<0.01
ZZ52403		0.59	37.7	1.84	1.97	0.05	0.04	0.34	0.030	0.06	7.5	5.0	0.13	454	5.66	<0.01
ZZ52404		0.66	37.1	1.32	1.90	<0.05	0.04	0.29	0.020	0.05	7.9	4.5	0.09	190	1.43	<0.01
ZZ52405		0.60	33.1	1.58	2.57	<0.05	0.04	0.24	0.030	0.06	8.0	8.2	0.19	2660	3.86	<0.01
ZZ52406		0.77	36.5	3.08	3.23	<0.05	0.05	0.26	0.033	0.07	9.6	13.2	0.25	279	3.32	<0.01
ZZ52407		0.87	28.5	2.62	3.32	<0.05	0.04	0.21	0.032	0.07	7.9	13.8	0.30	1070	4.06	<0.01
ZZ52408		0.87	30.6	2.47	2.38	<0.05	0.03	0.19	0.029	0.07	8.1	9.2	0.21	358	2.44	<0.01
ZZ52409		0.83	29.3	2.81	2.65	<0.05	0.04	0.27	0.032	0.07	8.2	12.7	0.37	490	2.95	<0.01
ZZ52410		0.88	28.0	3.27	2.89	0.05	0.04	0.19	0.032	0.06	9.3	11.2	0.27	1790	2.76	<0.01
ZZ52411		0.46	35.1	1.66	2.35	<0.05	0.06	0.28	0.027	0.07	7.9	10.1	0.25	159	1.04	<0.01
ZZ52412		1.20	30.4	3.35	2.26	0.05	0.03	0.26	0.041	0.09	7.2	9.8	0.21	160	6.24	<0.01
ZZ52413		1.29	16.9	3.91	4.83	<0.05	0.05	0.10	0.043	0.05	12.6	8.1	0.13	817	2.33	<0.01
ZZ52414		0.79	37.2	2.77	3.23	0.05	0.04	0.26	0.035	0.08	9.1	15.4	0.28	285	5.61	<0.01
ZZ52415		0.96	17.9	1.93	3.54	<0.05	0.02	0.13	0.024	0.05	11.1	10.0	0.13	208	2.22	<0.01
ZZ52416		0.94	46.4	4.97	3.07	<0.05	0.02	0.31	0.056	0.07	6.5	13.4	0.20	263	4.01	<0.01
ZZ52417		0.95	10.0	2.10	4.75	<0.05	0.02	0.05	0.023	0.05	9.8	11.0	0.15	111	3.31	<0.01
ZZ52418		0.66	26.9	3.45	3.57	<0.05	0.04	0.16	0.041	0.07	4.5	16.7	0.29	332	3.44	<0.01
ZZ52419		0.81	24.6	4.28	4.13	<0.05	0.02	0.06	0.044	0.07	3.8	18.9	0.26	180	3.45	<0.01
ZZ52420		1.25	26.0	3.24	5.59	<0.05	0.06	0.07	0.038	0.04	13.8	16.9	0.48	195	1.52	<0.01
ZZ52421		0.86	31.5	1.57	1.87	<0.05	0.03	0.23	0.029	0.06	8.9	7.0	0.84	268	4.44	<0.01
ZZ52422		0.86	27.8	2.18	2.84	0.06	0.04	0.22	0.029	0.07	9.8	11.3	0.30	275	2.50	<0.01
ZZ52423		0.77	22.4	2.17	2.60	<0.05	0.04	0.23	0.026	0.06	7.6	11.1	0.27	300	1.63	<0.01
ZZ52424		0.80	29.7	3.31	3.23	0.05	0.05	0.26	0.034	0.07	10.4	13.4	0.62	758	2.67	<0.01
ZZ52425		0.70	37.7	2.69	3.42	<0.05	0.05	0.31	0.036	0.07	8.6	18.1	0.42	156	1.75	<0.01
ZZ52426		0.62	29.6	2.68	2.99	0.05	0.04	0.25	0.034	0.06	8.2	16.2	0.53	309	3.06	<0.01
ZZ52427		0.48	12.7	2.28	4.51	<0.05	0.02	0.44	0.020	0.06	7.1	9.0	0.20	154	2.62	<0.01
ZZ52428		0.84	35.7	2.75	3.65	<0.05	0.04	0.52	0.035	0.07	9.4	14.7	0.89	478	2.52	<0.01
ZZ52429		0.46	29.2	1.36	2.22	<0.05	0.03	0.22	0.019	0.04	5.8	7.6	0.40	254	0.91	0.01
ZZ52430		0.75	30.6	2.84	3.47	0.05	0.04	2.64	0.036	0.06	9.0	13.3	0.38	340	2.52	<0.01

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ52391	0.37	137.0	980	15.1	8.6	0.009	0.05	3.83	5.2	5.5	0.4	56.9	<0.01	0.11	1.6	
ZZ52392	0.36	43.1	800	11.6	6.5	0.005	0.07	2.33	2.8	2.8	0.4	63.0	<0.01	0.05	0.8	
ZZ52393	0.45	56.6	880	16.4	8.2	0.004	0.03	2.62	5.4	2.4	0.5	44.4	<0.01	0.03	2.5	
ZZ52394	0.41	38.4	660	14.1	8.1	0.002	0.03	2.27	3.2	2.2	0.4	42.6	<0.01	0.04	1.3	
ZZ52395	0.42	44.3	560	17.2	7.8	0.002	0.04	2.16	4.3	1.6	0.4	38.8	<0.01	0.06	1.5	
ZZ52396	0.25	63.6	960	10.4	6.7	0.009	0.07	2.79	2.9	2.9	0.3	69.0	<0.01	0.08	0.7	
ZZ52397	0.20	44.5	800	7.5	7.5	0.011	0.08	2.89	2.2	3.6	0.3	54.5	<0.01	0.06	0.8	
ZZ52398	0.23	83.6	1250	11.0	7.0	0.011	0.05	4.73	3.9	3.4	0.4	60.4	<0.01	0.07	1.7	
ZZ52399	0.30	72.9	980	12.4	7.8	0.014	0.10	3.86	3.7	4.1	0.4	73.8	<0.01	0.06	1.2	
ZZ52400	0.22	59.2	1220	10.2	6.6	0.020	0.15	3.19	2.7	5.2	0.4	57.4	<0.01	0.06	1.3	
ZZ52401	0.23	62.5	1290	12.4	7.1	0.021	0.10	2.82	3.5	6.6	0.4	65.6	<0.01	0.07	1.5	
ZZ52402	0.19	72.5	1280	9.9	6.9	0.028	0.18	2.62	2.7	7.3	0.4	70.6	<0.01	0.08	0.9	
ZZ52403	0.20	52.3	1200	12.3	7.9	0.018	0.11	2.31	2.7	5.2	0.4	61.1	<0.01	0.04	1.1	
ZZ52404	0.22	46.1	950	11.0	6.6	0.018	0.10	1.86	2.8	5.1	0.3	51.3	<0.01	0.04	1.3	
ZZ52405	0.31	65.0	940	13.3	6.4	0.010	0.10	2.52	3.1	4.1	0.4	54.7	<0.01	0.05	1.1	
ZZ52406	0.41	45.2	860	16.8	9.1	0.005	0.05	1.98	4.9	2.9	0.5	34.5	<0.01	0.04	3.0	
ZZ52407	0.32	45.7	890	15.0	8.9	0.008	0.06	1.53	4.0	2.8	0.4	36.7	<0.01	0.03	1.9	
ZZ52408	0.27	40.1	880	15.6	7.0	0.003	0.05	1.09	3.8	2.0	0.4	33.3	<0.01	0.05	1.9	
ZZ52409	0.30	39.4	930	15.3	7.6	0.007	0.06	1.17	3.7	2.3	0.4	40.7	<0.01	0.04	2.1	
ZZ52410	0.32	41.1	920	13.7	8.1	0.005	0.05	0.99	3.4	1.8	0.4	31.7	<0.01	0.05	1.9	
ZZ52411	0.32	34.0	770	12.1	5.6	0.019	0.21	0.85	2.9	5.6	0.4	76.9	<0.01	0.03	1.0	
ZZ52412	0.23	56.8	850	13.3	11.8	0.019	0.08	1.10	3.9	4.3	0.4	39.5	<0.01	0.06	1.6	
ZZ52413	0.53	29.4	310	14.0	8.0	0.001	0.04	0.62	3.8	1.4	0.6	25.2	<0.01	0.06	1.6	
ZZ52414	0.42	49.8	770	16.1	7.9	0.003	0.04	2.17	4.4	1.8	0.4	36.1	<0.01	0.03	2.2	
ZZ52415	0.62	23.9	630	12.1	11.4	0.001	0.05	0.72	2.1	2.1	0.4	50.9	<0.01	0.02	0.8	
ZZ52416	0.19	50.6	400	19.2	9.2	0.002	0.01	1.19	5.3	2.8	0.5	13.7	<0.01	0.08	3.2	
ZZ52417	0.73	17.1	210	12.2	13.3	<0.001	<0.01	1.06	1.8	0.8	0.6	8.3	<0.01	0.04	2.7	
ZZ52418	0.19	37.9	820	14.5	8.3	0.001	0.04	0.77	3.9	1.2	0.5	36.8	<0.01	0.06	1.7	
ZZ52419	0.31	36.0	290	18.2	13.5	0.001	0.01	0.92	3.3	1.6	0.5	9.7	<0.01	0.06	1.8	
ZZ52420	0.75	31.0	200	15.3	8.7	<0.001	<0.01	0.80	4.3	0.4	0.6	11.2	<0.01	0.03	4.6	
ZZ52421	0.21	43.5	1260	9.4	6.5	0.004	0.07	2.24	2.7	3.3	0.3	69.3	<0.01	0.04	0.7	
ZZ52422	0.46	32.8	960	13.7	7.8	0.003	0.04	1.49	3.9	2.1	0.4	41.5	<0.01	0.04	1.4	
ZZ52423	0.42	25.6	910	14.0	7.4	0.003	0.06	0.93	2.9	3.1	0.3	41.1	<0.01	0.04	1.3	
ZZ52424	0.50	30.7	600	23.0	8.4	0.001	0.04	1.19	5.4	1.3	0.4	31.5	<0.01	0.05	2.8	
ZZ52425	0.59	30.7	600	17.8	7.6	0.001	0.04	0.86	4.8	1.3	0.4	39.8	<0.01	0.05	2.1	
ZZ52426	0.53	31.4	670	16.6	7.1	0.002	0.03	1.29	4.6	2.2	0.4	41.7	<0.01	0.04	1.9	
ZZ52427	0.73	16.9	200	11.7	8.8	<0.001	<0.01	0.81	2.2	0.4	0.5	9.4	<0.01	0.03	2.4	
ZZ52428	0.47	36.4	690	17.9	7.4	<0.001	0.05	1.25	4.0	1.9	0.5	55.9	<0.01	0.05	1.3	
ZZ52429	0.37	19.7	830	8.8	4.4	0.004	0.15	1.01	1.2	4.2	0.3	86.4	<0.01	0.04	0.3	
ZZ52430	0.27	32.7	610	18.6	7.2	0.001	0.05	1.19	4.1	1.9	0.5	40.4	<0.01	0.04	1.0	

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52391		0.007	0.37	6.40	212	0.12	25.5	854	1.5
ZZ52392		0.007	0.22	4.24	111	0.11	14.80	245	1.1
ZZ52393		0.009	0.25	1.92	133	0.10	19.15	274	1.4
ZZ52394		0.009	0.19	2.64	137	0.11	11.65	236	0.8
ZZ52395		0.008	0.26	1.35	98	0.08	13.95	223	1.2
ZZ52396		0.006	0.40	2.73	180	0.12	26.2	385	1.2
ZZ52397		<0.005	0.35	2.52	205	0.08	15.85	321	1.3
ZZ52398		0.005	0.37	4.24	240	0.09	29.0	579	1.8
ZZ52399		0.005	0.38	4.15	197	0.07	20.9	389	1.7
ZZ52400		<0.005	0.29	4.63	142	0.10	16.70	400	1.4
ZZ52401		0.005	0.46	4.14	123	0.06	23.0	340	1.5
ZZ52402		<0.005	0.32	3.63	115	0.06	18.00	331	2.0
ZZ52403		0.005	0.42	3.92	136	0.05	16.95	294	1.4
ZZ52404		<0.005	0.46	4.20	105	0.06	18.45	164	1.5
ZZ52405		0.006	0.29	3.23	109	0.05	15.75	382	1.4
ZZ52406		0.006	0.23	2.25	89	0.13	16.55	218	1.9
ZZ52407		0.007	0.23	1.26	78	0.09	13.60	218	1.4
ZZ52408		0.007	0.12	1.35	43	0.05	14.50	164	1.1
ZZ52409		0.007	0.15	1.40	52	0.09	14.05	178	1.3
ZZ52410		0.009	0.15	0.98	46	0.11	13.45	151	1.0
ZZ52411		0.006	0.15	2.51	73	<0.05	16.30	130	1.6
ZZ52412		<0.005	0.20	2.39	63	<0.05	16.40	249	1.2
ZZ52413		0.009	0.16	0.75	67	0.06	11.05	235	1.8
ZZ52414		0.010	0.23	2.52	80	0.08	15.45	223	1.3
ZZ52415		0.016	0.13	4.96	72	0.11	15.00	126	0.8
ZZ52416		<0.005	0.15	1.47	56	<0.05	11.40	226	0.7
ZZ52417		0.017	0.19	0.64	97	0.15	3.49	114	1.0
ZZ52418		<0.005	0.11	1.04	40	<0.05	10.65	168	1.0
ZZ52419		0.005	0.11	0.51	56	0.06	3.83	176	1.1
ZZ52420		0.021	0.18	0.75	63	0.17	6.00	85	2.2
ZZ52421		0.005	0.23	3.67	85	0.06	22.9	206	1.2
ZZ52422		0.011	0.19	1.75	69	0.18	16.15	198	1.1
ZZ52423		0.008	0.16	1.79	49	0.07	12.10	155	1.1
ZZ52424		0.006	0.18	1.59	55	0.06	16.35	161	1.6
ZZ52425		0.008	0.20	1.26	50	0.06	12.90	124	1.7
ZZ52426		0.008	0.25	1.27	61	0.06	13.40	125	1.3
ZZ52427		0.015	0.13	0.43	63	0.16	2.49	91	0.7
ZZ52428		0.011	0.20	1.26	55	0.12	14.20	133	1.2
ZZ52429		0.009	0.09	5.19	26	0.05	8.31	62	1.3
ZZ52430		0.005	0.26	1.61	60	0.09	15.85	153	1.2



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52431		0.23	0.006	0.40	1.02	47.0	<0.2	<10	800	0.77	0.15	2.94	1.30	10.95	8.3	19
ZZ52432		0.21	0.004	0.14	1.22	34.3	<0.2	<10	420	0.57	0.21	0.91	1.73	11.60	10.2	21
ZZ52433		0.21	0.005	0.12	1.74	36.6	<0.2	<10	500	1.06	0.22	0.38	0.26	31.4	15.1	29
ZZ52434		0.28	0.013	0.24	1.10	28.4	<0.2	<10	550	0.90	0.18	2.59	1.27	13.40	11.6	19
ZZ52435		0.20	0.005	0.21	1.02	30.2	<0.2	<10	420	0.76	0.16	0.78	0.67	14.95	10.8	18
ZZ52436		0.26	0.004	0.16	1.28	34.1	<0.2	<10	590	0.77	0.20	0.60	0.46	15.45	11.1	22
ZZ52437		0.23	0.003	0.14	1.34	38.3	<0.2	<10	350	0.85	0.28	0.27	0.44	21.3	11.0	25
ZZ52438		0.22	0.006	0.22	1.26	47.3	<0.2	<10	500	0.86	0.22	2.70	0.86	15.05	9.0	22
ZZ52439		0.23	0.006	0.24	1.46	37.8	<0.2	<10	470	0.92	0.24	0.67	0.59	18.10	11.6	27
ZZ52440		0.09	0.008	0.22	1.07	45.4	<0.2	10	730	0.75	0.16	2.57	1.92	11.55	5.0	18
ZZ52441		0.15	0.005	0.28	1.44	93.0	<0.2	<10	600	0.82	0.18	1.63	1.12	15.15	9.1	25
ZZ52442		0.16	0.002	0.04	2.05	45.7	<0.2	<10	260	1.22	0.23	0.50	3.38	28.8	11.5	32
ZZ52443		0.17	0.004	0.10	1.89	59.7	<0.2	<10	250	0.81	0.25	0.71	0.92	22.8	9.5	31
ZZ52444		0.21	0.004	0.08	2.09	159.0	<0.2	<10	180	0.95	0.25	0.33	0.63	28.5	10.3	35
ZZ52445		0.22	0.005	0.18	2.05	284	<0.2	<10	170	1.50	0.32	0.80	0.89	42.8	11.6	38
ZZ52446		0.18	0.003	0.42	1.93	155.5	<0.2	<10	190	1.74	0.22	4.84	1.46	28.9	9.3	27
ZZ52447		0.22	0.004	0.58	2.27	241	<0.2	<10	200	1.73	0.29	1.70	1.23	37.5	11.4	37
ZZ52448		0.16	0.006	0.82	1.95	378	<0.2	10	150	3.42	0.26	4.58	2.93	40.7	11.1	36
ZZ52449		0.26	0.007	1.43	0.58	371	<0.2	<10	380	0.32	0.25	0.25	0.79	6.72	3.4	26
ZZ52450		0.25	0.009	0.24	0.47	205	<0.2	<10	110	0.20	0.24	0.03	0.60	13.40	2.2	13
ZZ52451		0.16	0.016	1.62	0.82	206	<0.2	10	730	0.72	0.17	2.12	6.25	8.09	4.2	23
ZZ52452		0.18	0.011	15.40	0.62	102.5	<0.2	10	1630	0.82	0.15	2.49	20.7	6.69	2.5	141
ZZ52453		0.19	0.008	4.47	0.48	168.5	<0.2	10	1430	0.97	0.18	1.14	4.30	6.66	8.1	50
ZZ52454		0.25	0.005	1.25	0.41	13.1	<0.2	10	980	0.47	0.16	1.25	0.92	3.09	2.9	18
ZZ52455		0.22	0.016	0.79	0.38	7.4	<0.2	10	510	0.30	0.14	0.89	0.91	5.22	2.7	15
ZZ52456		0.18	0.016	3.47	0.92	33.0	<0.2	10	2070	0.96	0.17	2.40	4.77	8.66	6.5	38
ZZ52457		0.18	0.015	1.01	0.62	11.6	<0.2	10	2280	0.95	0.11	1.81	0.33	4.28	3.5	14
ZZ52458		0.24	0.005	0.42	0.50	27.0	<0.2	10	380	0.41	0.23	0.03	0.19	4.52	6.5	26
ZZ52459		0.23	0.005	3.65	0.74	33.0	<0.2	10	1930	1.11	0.22	1.62	1.77	7.03	7.5	87
ZZ52460		0.20	0.005	2.60	0.55	18.7	<0.2	10	880	0.44	0.26	0.14	1.61	8.19	1.6	22
ZZ52461		0.19	0.005	3.08	1.05	49.4	<0.2	10	530	1.09	0.24	0.80	1.88	14.80	5.3	64
ZZ52462		0.25	0.005	0.57	1.19	49.9	<0.2	<10	490	0.33	0.32	0.05	1.01	19.40	5.3	28
ZZ52463		0.19	0.023	4.26	1.34	24.6	<0.2	10	1760	0.86	0.23	0.51	2.07	9.92	1.8	19
ZZ52464		0.19	0.039	4.42	1.99	152.0	<0.2	<10	530	1.64	0.34	0.52	1.65	40.6	31.2	29
ZZ52465		0.22	0.007	1.49	0.80	56.1	<0.2	<10	620	0.39	0.33	0.03	0.51	12.20	3.4	20
ZZ52466		0.26	0.003	1.09	0.80	45.1	<0.2	<10	400	0.36	0.41	0.03	0.22	12.80	3.8	17
ZZ52467		0.25	0.007	3.66	1.75	32.5	<0.2	<10	220	0.47	0.51	0.05	0.82	27.3	8.5	31
ZZ52468		0.22	0.011	0.79	0.83	71.4	<0.2	<10	900	0.31	0.38	0.03	0.23	10.35	4.8	17
ZZ52469		0.29	0.011	1.46	2.61	36.6	<0.2	<10	240	1.05	0.31	0.08	0.83	24.5	9.3	35
ZZ52470		0.32	0.005	0.82	1.91	51.4	<0.2	<10	150	1.07	0.27	0.06	0.75	26.4	20.9	31



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**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52431		0.65	29.3	2.78	3.00	<0.05	0.04	0.38	0.033	0.06	6.5	12.4	0.91	322	2.79	<0.01
ZZ52432		0.67	28.4	3.08	4.52	<0.05	0.03	0.30	0.036	0.08	5.2	16.4	0.34	291	2.42	<0.01
ZZ52433		1.25	25.9	3.52	5.28	<0.05	0.06	0.12	0.040	0.07	11.6	19.7	0.49	616	2.98	0.01
ZZ52434		0.75	34.0	2.81	3.37	<0.05	0.05	0.25	0.036	0.08	6.5	15.6	0.90	563	2.06	0.01
ZZ52435		0.68	25.9	2.82	3.33	<0.05	0.05	0.21	0.032	0.07	7.0	16.0	0.33	592	1.89	<0.01
ZZ52436		0.85	31.3	3.22	3.86	0.05	0.05	0.26	0.034	0.08	7.4	16.0	0.34	445	2.34	<0.01
ZZ52437		0.93	36.2	3.40	4.89	0.05	<0.02	0.18	0.038	0.09	9.6	19.7	0.36	309	2.73	0.01
ZZ52438		0.85	32.9	3.21	3.45	0.05	<0.02	0.32	0.034	0.08	8.1	18.7	1.10	423	2.07	0.01
ZZ52439		0.66	32.0	3.63	3.94	0.05	0.02	0.32	0.030	0.08	8.0	17.3	0.39	378	2.01	0.01
ZZ52440		0.58	33.7	1.80	2.90	<0.05	0.03	0.40	0.022	0.06	5.7	10.8	0.45	104	0.68	0.02
ZZ52441		0.60	35.0	2.96	3.47	<0.05	<0.02	0.47	0.029	0.07	7.9	13.5	0.41	547	1.17	0.01
ZZ52442		1.04	15.8	3.47	5.70	<0.05	<0.02	0.31	0.037	0.06	12.4	13.9	0.34	815	1.67	0.01
ZZ52443		1.26	14.0	3.20	5.08	<0.05	<0.02	0.16	0.033	0.06	10.4	13.8	0.52	590	1.23	0.01
ZZ52444		1.37	13.5	3.44	5.09	0.05	<0.02	0.17	0.028	0.06	11.4	16.0	0.56	506	1.31	0.01
ZZ52445		1.55	15.9	3.64	6.27	0.08	0.04	0.42	0.038	0.08	22.3	16.8	0.80	589	1.51	0.01
ZZ52446		1.17	12.1	2.96	4.50	<0.05	<0.02	0.62	0.034	0.06	12.4	12.2	2.67	1080	2.40	0.02
ZZ52447		1.78	14.2	3.61	6.38	0.06	0.02	5.23	0.038	0.08	15.9	16.4	1.12	911	1.97	0.01
ZZ52448		1.06	13.5	3.46	4.70	0.06	0.03	3.66	0.041	0.07	19.7	13.5	2.49	927	2.49	0.02
ZZ52449		3.05	16.0	1.71	3.36	<0.05	<0.02	0.98	0.032	0.14	3.0	1.3	0.03	327	6.19	0.01
ZZ52450		3.03	15.3	1.19	3.77	<0.05	<0.02	1.01	0.016	0.09	6.7	1.2	0.03	27	3.65	0.01
ZZ52451		2.16	126.0	1.64	2.52	0.05	0.02	2.25	0.029	0.08	4.1	5.5	0.24	169	2.47	0.01
ZZ52452		2.06	147.0	2.03	1.97	0.11	<0.02	1.14	0.031	0.07	6.6	3.4	0.10	56	40.2	<0.01
ZZ52453		2.64	86.6	3.16	1.39	0.06	0.02	1.08	0.044	0.08	4.9	1.8	0.05	137	11.90	<0.01
ZZ52454		0.88	39.0	1.81	1.30	0.05	<0.02	0.14	0.027	0.06	1.7	0.8	0.03	83	6.70	0.01
ZZ52455		1.13	33.5	1.21	1.32	<0.05	<0.02	0.14	0.023	0.07	2.8	0.8	0.04	30	3.30	0.01
ZZ52456		2.49	76.7	2.01	2.26	0.09	0.04	0.61	0.036	0.08	6.0	9.7	0.13	223	7.17	0.01
ZZ52457		1.99	75.6	1.41	1.13	0.05	0.02	0.29	0.028	0.06	2.2	2.7	0.07	72	2.84	0.01
ZZ52458		3.41	70.3	3.13	2.20	<0.05	<0.02	0.09	0.038	0.09	2.7	1.5	0.02	65	9.52	0.01
ZZ52459		2.57	57.3	4.12	1.85	0.07	<0.02	0.21	0.045	0.07	4.9	2.4	0.36	378	13.20	0.01
ZZ52460		2.86	34.3	2.17	3.23	0.05	<0.02	0.17	0.038	0.18	6.1	1.7	0.03	20	24.1	0.02
ZZ52461		3.02	48.7	4.97	4.97	0.08	<0.02	0.18	0.040	0.28	11.6	10.2	0.10	110	12.85	0.02
ZZ52462		2.21	27.2	3.08	6.58	<0.05	<0.02	0.05	0.029	0.12	9.5	8.3	0.21	242	11.75	0.01
ZZ52463		3.18	116.5	1.23	4.57	0.06	<0.02	0.93	0.033	0.08	5.5	6.3	0.16	19	6.57	0.01
ZZ52464		9.89	294	5.15	6.31	0.22	0.04	1.56	0.093	0.22	13.6	19.9	0.25	836	11.20	0.05
ZZ52465		2.15	33.0	4.20	4.83	<0.05	<0.02	0.19	0.053	0.30	5.4	3.2	0.07	130	7.97	0.02
ZZ52466		2.41	33.0	2.84	5.90	<0.05	<0.02	0.07	0.039	0.18	6.3	3.7	0.07	62	7.93	0.01
ZZ52467		6.55	33.2	4.62	10.10	0.05	<0.02	0.13	0.051	0.11	12.5	15.4	0.28	323	3.71	0.01
ZZ52468		4.39	36.7	3.10	5.01	<0.05	<0.02	0.07	0.037	0.17	4.7	3.8	0.08	136	5.24	0.02
ZZ52469		3.57	78.0	4.03	6.71	0.05	0.13	0.28	0.050	0.10	11.3	25.1	0.40	249	2.66	0.01
ZZ52470		2.89	58.4	4.58	5.01	0.05	0.05	0.12	0.050	0.09	10.0	25.5	0.42	651	3.49	0.01



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**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ52431	0.28	31.0	690	18.0	7.0	0.001	0.05	1.16	3.7	1.1	0.4	48.2	<0.01	0.04	1.2	
ZZ52432	0.33	28.7	340	18.2	10.4	<0.001	0.02	0.93	3.6	1.0	0.6	29.9	<0.01	0.07	2.3	
ZZ52433	0.54	41.2	430	21.6	11.8	<0.001	0.02	1.17	4.8	1.0	0.6	21.0	<0.01	0.07	3.8	
ZZ52434	0.37	37.5	840	17.2	8.2	0.002	0.06	0.99	3.5	1.9	0.4	48.0	<0.01	0.05	1.2	
ZZ52435	0.57	31.3	470	17.0	6.7	0.004	0.03	0.94	3.8	1.4	0.4	20.0	<0.01	0.04	2.4	
ZZ52436	0.46	33.1	710	19.0	8.6	<0.001	0.02	0.89	4.3	1.0	0.5	22.3	<0.01	0.06	2.6	
ZZ52437	0.58	39.1	730	20.2	9.5	0.001	0.02	1.02	4.8	1.5	0.6	20.7	<0.01	0.03	3.6	
ZZ52438	0.51	32.9	590	18.9	8.5	0.001	0.03	0.93	4.2	0.7	0.5	31.7	<0.01	0.02	2.1	
ZZ52439	0.55	35.8	840	17.8	7.9	0.001	0.02	0.88	5.0	1.2	0.5	19.8	<0.01	0.04	3.8	
ZZ52440	0.45	21.8	800	17.9	6.9	0.003	0.15	0.74	2.1	1.8	0.4	28.9	<0.01	0.02	0.9	
ZZ52441	0.52	27.6	770	25.2	6.4	<0.001	0.05	0.85	3.0	1.5	0.4	19.3	<0.01	0.03	1.1	
ZZ52442	0.69	27.0	310	24.3	8.2	<0.001	0.02	0.81	4.9	0.4	0.7	11.4	<0.01	0.02	3.2	
ZZ52443	0.75	21.1	480	22.2	10.0	0.001	0.02	0.63	3.5	0.2	0.6	14.0	<0.01	0.05	2.0	
ZZ52444	0.65	29.8	200	28.4	11.4	<0.001	0.01	0.84	4.6	0.2	0.6	9.4	<0.01	0.04	4.6	
ZZ52445	1.03	35.7	210	26.4	12.6	<0.001	0.01	1.00	7.0	1.1	0.7	14.4	<0.01	0.04	6.1	
ZZ52446	0.63	23.7	650	57.3	11.7	0.001	0.05	1.44	3.8	0.5	0.6	31.3	<0.01	0.02	1.6	
ZZ52447	0.95	30.5	450	46.1	15.2	0.001	0.03	1.14	5.7	0.7	0.7	17.3	<0.01	0.05	3.0	
ZZ52448	0.53	30.1	810	111.5	11.2	0.001	0.06	1.63	4.9	1.8	0.7	31.1	<0.01	0.02	2.1	
ZZ52449	0.13	10.5	840	21.5	11.0	0.002	0.11	2.17	1.6	2.8	0.5	35.9	<0.01	0.15	1.0	
ZZ52450	0.35	15.2	300	26.0	10.0	<0.001	0.05	1.45	1.0	0.2	0.7	22.4	<0.01	0.05	1.3	
ZZ52451	0.22	51.2	890	23.0	9.0	0.023	0.14	2.31	3.1	5.4	0.4	79.2	<0.01	0.06	0.9	
ZZ52452	0.10	201	2840	12.1	7.8	0.023	0.16	14.80	4.4	23.9	0.4	220	<0.01	0.13	0.8	
ZZ52453	0.06	163.0	1480	54.1	7.5	0.012	0.09	2.97	9.3	9.6	0.5	160.0	<0.01	0.08	1.4	
ZZ52454	0.07	43.7	980	8.6	6.5	0.013	0.08	1.07	4.2	9.9	0.3	117.5	<0.01	0.10	0.4	
ZZ52455	0.14	45.4	620	6.8	8.2	0.009	0.08	0.85	4.1	12.8	0.4	68.3	<0.01	0.04	1.0	
ZZ52456	0.17	124.0	1990	10.5	11.1	0.036	0.22	2.88	4.0	18.5	0.4	209	<0.01	0.08	0.6	
ZZ52457	0.11	81.0	1010	6.5	5.8	0.011	0.17	1.13	5.5	11.0	0.3	184.5	<0.01	0.05	0.5	
ZZ52458	0.11	119.0	540	10.4	12.8	0.001	0.02	1.61	4.2	7.4	0.6	19.1	<0.01	0.09	1.0	
ZZ52459	0.09	121.0	940	13.1	9.5	0.002	0.06	1.93	9.0	13.8	0.5	129.0	<0.01	0.12	1.2	
ZZ52460	0.10	18.1	2400	16.6	18.0	0.004	0.42	2.12	0.4	6.3	0.6	85.1	<0.01	0.13	<0.2	
ZZ52461	0.23	60.8	7370	20.0	26.0	0.012	0.58	3.84	2.7	10.4	0.7	245	<0.01	0.18	1.1	
ZZ52462	0.69	20.0	800	19.1	25.5	0.001	0.08	1.89	2.0	2.5	0.9	30.0	<0.01	0.10	0.7	
ZZ52463	0.29	62.6	2620	18.1	9.0	0.014	0.23	1.52	1.5	12.3	0.8	61.3	<0.01	0.05	<0.2	
ZZ52464	0.53	102.0	2800	46.8	27.6	0.004	0.51	7.42	15.4	17.6	1.0	155.5	<0.01	0.21	1.8	
ZZ52465	0.42	18.4	1080	17.5	20.4	0.001	0.48	4.68	2.3	3.9	0.9	75.6	<0.01	0.14	1.8	
ZZ52466	0.50	21.4	730	21.5	22.2	<0.001	0.22	3.12	2.8	4.2	0.9	62.0	<0.01	0.14	3.6	
ZZ52467	1.87	24.6	720	35.1	25.2	<0.001	0.08	1.89	3.4	2.1	1.1	42.5	<0.01	0.13	3.3	
ZZ52468	0.43	24.2	660	23.4	20.7	0.002	0.18	3.07	2.3	2.7	0.8	37.2	<0.01	0.15	2.4	
ZZ52469	1.28	29.1	500	16.1	19.9	<0.001	0.04	1.51	4.3	2.1	0.8	15.5	<0.01	0.08	5.8	
ZZ52470	0.51	40.8	690	23.4	13.3	0.001	0.05	1.83	5.8	2.2	0.6	17.3	<0.01	0.11	5.7	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52431		0.005	0.22	1.49	53	0.06	11.65	177	1.3
ZZ52432		0.007	0.18	0.68	53	0.07	4.48	142	1.3
ZZ52433		0.013	0.20	1.06	61	0.14	8.49	138	1.5
ZZ52434		0.006	0.17	1.71	40	0.06	11.50	141	1.6
ZZ52435		0.009	0.12	0.88	39	0.09	9.08	132	1.5
ZZ52436		0.009	0.17	1.32	45	0.07	10.05	134	1.3
ZZ52437		0.011	0.17	0.99	51	0.11	9.80	135	1.1
ZZ52438		0.008	0.23	1.11	53	0.10	10.70	143	1.3
ZZ52439		0.009	0.13	1.53	52	0.12	10.40	146	2.1
ZZ52440		0.009	0.19	4.18	39	0.08	6.97	120	2.0
ZZ52441		0.011	0.23	1.55	52	0.15	9.78	183	1.3
ZZ52442		0.012	0.26	0.81	83	0.18	10.30	198	1.6
ZZ52443		0.025	0.23	1.79	64	0.22	5.59	198	0.9
ZZ52444		0.021	0.51	1.03	67	0.25	5.37	264	1.7
ZZ52445		0.034	0.56	2.16	73	0.29	16.05	177	2.6
ZZ52446		0.023	0.38	1.17	60	0.33	9.79	285	1.2
ZZ52447		0.028	0.66	1.46	77	0.35	11.05	280	1.6
ZZ52448		0.014	0.89	1.72	70	0.40	17.70	484	1.6
ZZ52449		<0.005	1.30	1.22	114	0.31	3.54	119	<0.5
ZZ52450		0.011	0.70	0.48	66	0.30	1.61	120	<0.5
ZZ52451		<0.005	1.04	3.89	62	0.20	10.65	272	2.0
ZZ52452		<0.005	1.22	12.25	321	0.52	46.3	709	2.7
ZZ52453		<0.005	0.47	4.11	80	0.14	44.0	856	2.9
ZZ52454		<0.005	0.11	3.68	62	<0.05	15.25	149	1.3
ZZ52455		<0.005	0.14	2.41	26	0.05	8.77	124	0.5
ZZ52456		<0.005	1.03	8.08	84	0.07	30.0	403	2.7
ZZ52457		<0.005	0.12	5.49	25	<0.05	22.2	109	2.1
ZZ52458		<0.005	0.27	1.25	62	0.05	7.95	365	0.6
ZZ52459		<0.005	0.24	3.01	140	0.05	36.6	351	2.7
ZZ52460		<0.005	1.35	4.37	121	0.07	6.71	73	<0.5
ZZ52461		0.008	1.05	5.90	163	0.11	14.15	348	0.6
ZZ52462		0.022	0.65	0.89	124	0.22	3.27	103	<0.5
ZZ52463		<0.005	2.84	7.52	69	0.08	17.90	141	<0.5
ZZ52464		0.007	2.34	13.35	150	0.23	87.6	271	1.5
ZZ52465		0.012	0.58	1.03	109	0.12	4.07	125	<0.5
ZZ52466		0.010	0.81	0.76	103	0.13	4.84	117	0.8
ZZ52467		0.041	0.67	0.77	96	0.37	3.47	118	0.5
ZZ52468		0.011	0.43	0.67	90	0.13	3.27	124	<0.5
ZZ52469		0.033	0.43	1.17	79	0.30	6.50	102	4.9
ZZ52470		0.016	0.41	0.95	74	0.13	6.06	150	3.7



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ52471		0.21	0.004	0.31	1.57	18.0	<0.2	<10	250	0.50	0.28	0.06	0.22	26.1	5.0	22
ZZ52472		0.27	0.004	0.32	0.64	12.8	<0.2	<10	320	0.52	0.18	0.27	0.57	13.95	5.9	13
ZZ52473		0.21	0.007	0.56	0.71	14.6	<0.2	<10	420	0.41	0.26	0.36	0.57	12.50	8.5	14
ZZ52474		0.20	0.007	0.58	0.86	36.9	<0.2	<10	850	0.52	0.22	0.36	1.51	11.60	6.2	16
ZZ52475		0.25	0.017	1.59	1.14	14.2	<0.2	<10	1300	0.78	0.20	1.17	4.82	14.15	7.4	17
ZZ52476		0.21	0.005	1.49	1.25	35.6	<0.2	<10	690	0.89	0.23	0.33	6.17	20.1	9.9	53
ZZ52477		0.30	0.006	1.54	1.30	28.3	<0.2	<10	570	0.95	0.24	1.47	20.7	18.90	8.8	36
ZZ52478		0.24	0.005	0.22	1.28	18.9	<0.2	<10	230	0.93	0.21	1.78	0.31	15.20	7.5	18
ZZ52479		0.25	0.005	0.23	1.19	25.3	<0.2	<10	170	0.86	0.22	0.81	0.45	18.20	10.8	20
ZZ52480		0.23	0.005	0.17	1.19	22.7	<0.2	10	290	0.90	0.26	2.23	0.37	15.65	11.3	18
ZZ52481		0.16	0.005	0.77	1.08	25.0	<0.2	<10	220	0.89	0.23	1.19	1.60	20.2	8.6	16
ZZ52482		0.23	0.004	0.08	1.28	16.4	<0.2	10	540	1.36	0.23	1.85	0.18	24.0	11.7	19
ZZ52483		0.16	0.003	0.11	1.65	29.2	<0.2	<10	280	0.74	0.31	0.23	0.11	18.95	10.2	23
ZZ52484		0.24	0.003	0.06	1.26	8.1	<0.2	<10	180	0.73	0.17	0.31	0.17	32.2	7.8	16
ZZ52485		0.23	0.005	0.06	1.14	6.9	<0.2	<10	70	0.21	0.21	0.04	0.14	15.45	3.1	17
ZZ52486		0.26	0.004	0.02	1.10	11.7	<0.2	<10	90	0.33	0.31	0.05	0.05	17.20	7.2	17
ZZ52487		0.27	0.003	0.06	2.03	26.9	<0.2	<10	260	1.41	0.34	0.13	0.13	25.4	9.9	31
ZZ52488		0.22	0.007	0.07	2.77	34.9	<0.2	<10	280	1.13	0.44	0.17	0.30	55.4	17.6	45
ZZ52489		0.19	0.005	0.09	1.75	23.3	<0.2	<10	280	0.76	0.28	0.34	0.13	28.1	10.5	29
ZZ52490		0.23	0.006	0.18	1.52	47.2	<0.2	<10	360	1.17	0.31	0.78	0.37	22.8	11.9	25
ZZ52491		0.20	0.005	0.18	1.56	52.7	<0.2	<10	300	0.94	0.29	0.83	0.22	20.8	8.8	24
ZZ52492		0.21	0.006	0.26	1.31	38.8	<0.2	<10	340	0.80	0.22	1.73	0.41	20.2	7.1	21
ZZ52493		0.24	0.003	0.17	0.36	189.5	<0.2	<10	100	1.10	0.48	0.29	0.13	10.85	16.8	8
ZZ52494		0.27	0.006	0.22	1.64	134.5	<0.2	<10	210	1.11	0.30	1.14	0.29	21.7	14.8	25
ZZ52495		0.20	0.003	0.05	1.85	85.9	<0.2	<10	200	0.66	0.34	0.25	0.12	22.7	12.3	28
ZZ52496		0.25	0.003	0.04	1.63	35.7	<0.2	<10	130	0.66	0.33	0.28	0.18	21.5	13.8	25
ZZ52497		0.27	0.005	0.13	0.42	49.5	<0.2	<10	150	0.33	0.29	0.58	0.25	9.18	2.4	6
ZZ52498		0.26	0.005	0.09	1.05	35.9	<0.2	<10	200	0.83	0.33	0.37	0.34	17.90	12.8	18
ZZ52499		0.14	0.013	0.30	1.04	11.8	<0.2	10	360	0.80	0.17	3.61	0.50	17.30	9.9	17
ZZ52500		0.28	0.009	0.05	2.47	18.0	<0.2	<10	100	1.26	0.28	0.06	0.18	34.1	20.0	38

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ52471		2.95	25.4	2.54	6.28	<0.05	<0.02	0.04	0.032	0.08	12.3	12.8	0.20	158	2.83	0.01
ZZ52472		1.05	37.8	2.16	2.18	<0.05	<0.02	0.17	0.032	0.11	6.2	7.9	0.18	103	4.43	0.01
ZZ52473		4.02	34.2	2.26	2.55	<0.05	<0.02	0.10	0.029	0.10	5.9	10.4	0.23	330	3.34	0.01
ZZ52474		2.51	36.1	2.33	2.51	<0.05	0.03	0.33	0.026	0.11	5.2	8.8	0.23	215	4.33	0.01
ZZ52475		2.58	62.8	1.89	3.11	0.05	0.05	0.40	0.034	0.08	6.6	7.3	0.19	387	6.63	0.02
ZZ52476		1.88	72.0	3.16	3.73	0.05	0.03	0.14	0.028	0.10	10.3	15.9	0.36	340	15.30	0.01
ZZ52477		1.19	55.3	3.00	3.59	<0.05	0.04	0.35	0.037	0.07	11.8	18.9	0.37	432	3.93	0.01
ZZ52478		1.02	53.2	3.06	3.09	0.08	0.10	0.18	0.029	0.09	15.6	17.6	0.42	342	0.88	0.01
ZZ52479		1.31	35.4	3.67	3.13	<0.05	0.08	0.15	0.033	0.11	7.5	14.1	0.43	441	1.61	0.01
ZZ52480		1.07	48.7	2.97	3.21	<0.05	0.07	0.26	0.027	0.10	7.3	21.0	0.66	740	0.61	0.01
ZZ52481		1.09	57.3	3.03	2.85	0.05	0.11	0.20	0.034	0.11	8.7	13.4	0.39	365	3.68	0.01
ZZ52482		0.80	27.0	3.55	3.09	0.07	0.06	0.16	0.045	0.14	12.5	15.7	0.47	288	1.16	0.01
ZZ52483		1.03	26.0	3.77	5.33	<0.05	0.03	0.06	0.033	0.11	7.9	19.1	0.33	813	0.79	0.01
ZZ52484		1.24	13.0	2.50	2.82	<0.05	0.02	0.03	0.027	0.06	7.6	12.6	0.22	1340	0.56	0.01
ZZ52485		2.31	10.9	1.70	4.80	<0.05	<0.02	0.02	0.014	0.06	7.6	6.8	0.14	157	0.78	0.01
ZZ52486		1.14	18.3	2.43	5.18	<0.05	<0.02	0.01	0.018	0.07	8.1	8.1	0.19	229	0.73	0.01
ZZ52487		2.56	26.0	4.05	6.04	<0.05	0.03	0.05	0.040	0.08	10.8	28.5	0.46	491	1.22	0.01
ZZ52488		2.62	25.9	5.37	7.83	0.06	0.04	0.09	0.057	0.08	18.3	31.4	0.65	1200	1.66	0.03
ZZ52489		1.65	20.9	3.44	5.23	<0.05	0.05	0.07	0.032	0.06	11.4	20.0	0.45	616	1.11	0.01
ZZ52490		1.69	50.7	3.77	4.71	0.05	0.06	0.27	0.038	0.08	10.6	21.2	0.45	791	0.84	0.01
ZZ52491		1.78	37.7	3.31	4.32	<0.05	0.06	0.43	0.030	0.08	9.6	18.8	0.43	577	0.78	0.01
ZZ52492		1.03	37.6	2.50	3.37	<0.05	0.04	0.29	0.022	0.05	9.8	11.2	0.35	799	0.75	0.01
ZZ52493		9.41	35.7	3.54	1.01	<0.05	0.04	0.73	0.025	0.09	4.8	3.2	0.11	372	0.49	0.01
ZZ52494		1.79	60.3	4.31	4.73	<0.05	0.07	0.49	0.040	0.08	11.4	23.3	0.64	601	0.86	0.01
ZZ52495		2.40	28.5	4.21	6.74	<0.05	0.03	0.20	0.044	0.07	9.9	32.2	0.53	546	0.93	0.01
ZZ52496		1.94	41.6	4.30	5.73	<0.05	0.03	0.06	0.042	0.07	8.3	21.4	0.47	533	1.22	0.01
ZZ52497		11.40	12.7	1.62	1.31	<0.05	0.06	0.28	0.020	0.12	4.4	1.6	0.09	66	0.92	0.01
ZZ52498		6.30	36.8	3.90	3.02	<0.05	0.06	0.09	0.046	0.12	6.4	12.4	0.29	798	0.80	0.01
ZZ52499		1.15	47.7	2.37	2.82	<0.05	0.07	0.21	0.023	0.06	10.1	11.7	0.52	582	0.45	0.01
ZZ52500		2.29	65.2	4.61	6.62	<0.05	0.08	0.11	0.055	0.08	13.3	37.5	0.93	477	0.66	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ52471		0.70	14.9	370	15.0	14.8	0.001	0.03	1.00	3.1	1.2	0.8	13.3	<0.01	0.05	3.6
ZZ52472		0.20	25.7	650	11.2	8.4	0.002	0.05	2.18	3.2	2.3	0.4	34.3	<0.01	0.06	3.7
ZZ52473		0.28	29.9	650	13.1	11.5	0.001	0.04	1.54	2.5	1.6	0.4	35.1	<0.01	0.05	2.6
ZZ52474		0.21	31.8	800	12.5	9.9	0.001	0.06	1.88	3.1	2.7	0.4	45.1	<0.01	0.06	2.3
ZZ52475		0.30	52.4	1800	10.7	10.0	0.003	0.20	2.62	3.6	4.5	0.4	73.1	<0.01	0.08	0.8
ZZ52476		0.31	93.8	1120	14.5	9.1	0.004	0.06	6.58	3.9	4.4	0.4	35.2	<0.01	0.12	2.3
ZZ52477		0.30	170.0	1060	15.6	7.1	0.004	0.08	2.77	4.1	3.5	0.4	45.3	<0.01	0.05	1.1
ZZ52478		0.22	24.6	790	12.3	7.9	<0.001	0.09	0.53	5.8	1.6	0.3	57.0	<0.01	0.05	1.6
ZZ52479		0.26	29.8	600	16.8	8.4	<0.001	0.03	0.83	5.1	0.5	0.4	29.1	<0.01	0.05	3.6
ZZ52480		0.25	27.2	660	16.3	6.7	<0.001	0.07	0.45	4.4	1.2	0.4	42.8	<0.01	0.04	1.7
ZZ52481		0.25	33.1	1210	15.6	9.3	0.013	0.11	2.07	4.0	4.6	0.4	43.3	<0.01	0.06	1.6
ZZ52482		0.31	37.1	480	17.2	9.8	0.001	0.05	0.29	5.9	0.5	0.5	55.5	<0.01	0.03	3.2
ZZ52483		0.39	19.3	410	17.7	12.9	<0.001	0.02	0.29	4.0	<0.2	0.6	14.8	<0.01	0.05	3.0
ZZ52484		0.30	18.1	420	11.8	10.3	<0.001	0.02	0.35	3.3	0.4	0.3	11.6	<0.01	<0.01	1.9
ZZ52485		0.56	7.6	350	9.0	10.8	<0.001	0.02	0.27	1.5	<0.2	0.6	5.2	<0.01	0.05	1.6
ZZ52486		0.57	12.4	130	11.3	11.8	<0.001	<0.01	0.26	2.4	<0.2	0.8	6.0	<0.01	0.04	3.2
ZZ52487		0.76	23.8	310	17.3	16.0	<0.001	0.01	0.43	4.3	<0.2	0.7	11.2	<0.01	0.06	4.2
ZZ52488		1.13	34.4	700	28.7	14.9	<0.001	0.04	0.73	5.4	0.7	0.8	16.6	<0.01	0.07	4.0
ZZ52489		0.65	23.8	790	16.6	9.9	<0.001	0.03	0.52	3.4	0.6	0.5	19.9	<0.01	0.03	1.8
ZZ52490		0.41	29.3	730	22.5	14.0	<0.001	0.05	0.44	5.6	0.9	0.6	34.2	<0.01	0.08	2.2
ZZ52491		0.45	21.6	890	19.1	14.4	<0.001	0.07	0.39	4.3	0.7	0.5	28.8	<0.01	0.04	1.5
ZZ52492		0.54	20.7	1250	13.3	7.0	<0.001	0.12	0.48	3.3	1.1	0.4	53.1	<0.01	0.03	0.9
ZZ52493		0.07	26.9	310	31.8	8.3	<0.001	0.03	0.30	4.7	0.5	0.3	18.1	<0.01	0.02	4.0
ZZ52494		0.32	34.7	640	22.0	8.6	<0.001	0.05	0.68	7.8	1.2	0.4	34.8	<0.01	0.10	1.9
ZZ52495		0.51	25.2	230	17.8	17.3	<0.001	0.01	0.37	4.5	<0.2	0.7	11.7	<0.01	0.11	3.4
ZZ52496		0.43	27.2	320	17.7	14.0	<0.001	0.01	0.48	4.6	<0.2	0.6	11.8	<0.01	0.05	2.8
ZZ52497		0.16	9.8	350	42.7	13.1	<0.001	0.06	0.40	2.1	0.4	0.3	16.4	<0.01	0.03	1.4
ZZ52498		0.17	25.7	580	24.0	18.0	<0.001	0.03	0.45	6.4	0.4	0.4	22.7	<0.01	0.09	2.9
ZZ52499		0.17	21.9	860	11.6	6.4	0.001	0.11	0.31	3.9	1.5	0.4	128.0	<0.01	0.06	0.7
ZZ52500		0.28	40.5	210	15.3	16.0	<0.001	<0.01	0.39	6.5	0.8	0.6	8.6	<0.01	0.12	4.9

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 Account: RCM

Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200334**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ52471		0.016	0.41	0.83	72	0.20	3.91	69	0.8
ZZ52472		0.006	0.35	0.93	52	0.06	6.01	185	1.4
ZZ52473		0.011	0.44	1.64	46	0.08	5.47	154	<0.5
ZZ52474		0.005	0.45	1.49	66	0.08	8.38	204	0.5
ZZ52475		0.006	0.97	4.15	118	0.12	17.50	167	1.4
ZZ52476		0.013	0.67	4.75	416	0.16	21.3	557	0.9
ZZ52477		0.009	0.30	4.60	483	0.09	17.35	1600	1.3
ZZ52478		0.006	0.11	1.69	30	0.05	28.7	68	2.1
ZZ52479		0.007	0.18	1.03	38	0.06	7.98	125	2.5
ZZ52480		0.006	0.22	0.79	26	0.07	9.25	78	1.7
ZZ52481		<0.005	0.24	1.99	42	0.05	11.20	199	2.6
ZZ52482		<0.005	0.16	0.89	25	<0.05	12.10	85	3.4
ZZ52483		0.007	0.17	0.70	49	0.10	6.30	67	0.6
ZZ52484		0.009	0.07	0.51	27	0.05	10.85	73	0.6
ZZ52485		0.012	0.11	0.39	35	0.15	1.73	30	<0.5
ZZ52486		0.016	0.10	0.49	46	0.15	2.40	39	0.5
ZZ52487		0.015	0.23	0.84	54	0.46	5.11	75	0.8
ZZ52488		0.030	0.32	1.82	79	0.27	9.00	121	1.0
ZZ52489		0.018	0.16	1.36	51	0.22	6.67	75	0.9
ZZ52490		0.009	0.25	1.58	39	0.09	12.80	101	1.3
ZZ52491		0.010	0.30	1.92	39	0.10	9.76	90	1.2
ZZ52492		0.017	0.15	5.15	34	0.10	11.55	57	1.1
ZZ52493		<0.005	1.33	0.63	11	0.21	7.16	25	1.4
ZZ52494		0.009	0.39	1.45	44	0.11	14.65	87	1.2
ZZ52495		0.008	0.54	0.68	56	0.13	3.98	78	1.3
ZZ52496		0.009	0.17	0.70	59	0.10	4.07	69	0.7
ZZ52497		<0.005	0.77	1.26	12	0.10	3.61	118	1.1
ZZ52498		<0.005	0.22	1.10	30	0.05	8.32	71	1.4
ZZ52499		0.005	0.12	4.91	29	<0.05	13.80	45	1.8
ZZ52500		0.007	0.12	0.68	60	0.05	4.52	71	2.4



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200334**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41	NSS is non- sufficient sample. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12200335**

Project: ATACRegional- AreaB- RackIaCntrl  
 P.O. No.: Soil 35  
 This report is for 170 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55001		0.23	0.004	0.05	0.97	17.1	<0.2	<10	130	1.07	0.27	7.60	0.10	41.2	9.7	25
ZZ55002		0.21	0.013	0.21	1.55	3.1	<0.2	10	360	1.00	0.25	1.86	0.49	23.0	8.3	27
ZZ55003		0.23	0.008	0.18	1.66	8.9	<0.2	<10	110	0.50	0.34	0.06	0.22	10.00	12.0	26
ZZ55004		0.31	0.002	0.05	1.98	15.5	<0.2	<10	110	0.49	0.31	0.03	0.11	21.4	12.1	29
ZZ55005		0.25	0.015	0.19	1.58	9.6	<0.2	10	360	1.17	0.33	2.15	0.48	19.00	18.0	21
ZZ55006		0.22	0.006	0.17	1.83	9.9	<0.2	<10	240	0.74	0.27	1.57	0.18	24.1	13.1	29
ZZ55007		0.22	0.017	0.18	1.27	18.2	<0.2	<10	180	0.73	0.26	1.75	0.35	19.60	12.9	18
ZZ55008		0.28	0.005	0.12	1.82	11.8	<0.2	10	170	0.80	0.24	1.30	0.32	23.1	17.3	28
ZZ55009		0.32	0.005	0.20	1.44	15.3	<0.2	<10	190	1.03	0.28	1.35	0.25	23.4	19.7	22
ZZ55010		0.17	0.005	0.15	1.28	12.0	<0.2	<10	170	0.81	0.24	1.68	0.41	15.55	15.2	18
ZZ39131		0.19	0.008	2.50	0.74	29.8	<0.2	<10	2380	1.23	0.17	1.14	0.91	8.49	7.2	27
ZZ39132		0.17	0.007	1.32	0.73	45.2	<0.2	<10	890	0.74	0.19	0.80	0.60	5.79	6.5	23
ZZ39133		0.21	0.006	1.19	0.75	45.9	<0.2	<10	860	0.69	0.19	0.90	0.57	8.75	7.8	20
ZZ39134		0.16	0.004	0.99	0.76	37.1	<0.2	<10	1550	0.67	0.19	0.97	0.59	9.11	6.1	19
ZZ39135		0.18	0.005	2.48	0.45	28.5	<0.2	<10	1620	0.67	0.16	0.99	1.30	5.18	6.9	26
ZZ39136		0.09	0.008	1.57	0.52	27.3	<0.2	<10	810	0.45	0.15	1.03	0.80	4.71	3.1	16
ZZ39137		0.23	0.006	0.53	0.81	44.0	<0.2	<10	700	0.64	0.22	0.32	0.68	8.00	8.1	24
ZZ39138		0.24	0.008	1.28	0.47	37.2	<0.2	<10	1440	0.59	0.16	0.39	0.67	4.80	4.5	22
ZZ39139		0.14	0.006	0.99	0.51	21.7	<0.2	<10	2570	0.48	0.15	0.67	0.61	6.30	6.0	22
ZZ39140		0.16	0.006	1.33	0.60	32.0	<0.2	<10	870	0.67	0.16	0.19	0.38	4.80	4.9	30
ZZ39141		0.22	0.011	2.70	0.46	37.0	<0.2	<10	2410	0.68	0.17	0.39	0.99	4.60	8.9	26
ZZ39142		0.16	0.004	0.79	0.80	26.0	<0.2	<10	4660	0.88	0.17	1.19	1.37	7.64	6.3	51
ZZ39143		0.16	0.009	1.13	0.82	53.9	<0.2	<10	2170	0.95	0.17	0.31	1.02	9.02	9.3	65
ZZ39144		0.23	0.004	0.94	0.63	58.6	<0.2	<10	1510	0.30	0.25	0.06	0.72	9.38	4.1	33
ZZ39145		0.18	0.004	0.83	0.84	53.5	<0.2	<10	300	0.27	0.32	0.06	0.28	15.65	3.6	24
ZZ39146		0.14	0.006	1.05	0.63	43.5	<0.2	<10	970	0.47	0.23	0.13	0.78	8.58	3.0	17
ZZ39147		0.19	0.004	0.33	0.50	50.7	<0.2	<10	250	0.26	0.23	0.02	0.42	8.13	5.6	15
ZZ39148		0.23	0.008	1.52	0.88	29.5	<0.2	<10	790	0.56	0.24	0.14	0.66	12.05	7.6	17
ZZ39149		0.23	0.008	1.44	0.86	35.0	<0.2	<10	1010	0.66	0.25	0.23	0.76	12.60	6.0	18
ZZ39150		0.16	0.007	0.76	0.60	41.1	<0.2	<10	800	0.56	0.21	0.22	1.74	9.47	8.3	12
ZZ39151		0.12	0.009	0.70	0.71	19.4	<0.2	<10	1430	0.51	0.24	0.53	1.39	10.90	3.0	13
ZZ39152		0.12	0.007	1.01	1.09	41.6	<0.2	<10	1620	0.62	0.21	1.47	1.02	9.84	8.3	20
ZZ39153		0.20	0.006	1.63	0.31	46.4	<0.2	<10	260	0.24	0.28	0.02	0.72	5.09	0.6	12
ZZ39154		0.12	0.004	0.58	0.91	34.3	<0.2	<10	300	0.95	0.19	1.27	3.03	17.00	12.0	15
ZZ39155		0.19	0.005	0.49	0.71	21.3	<0.2	<10	400	0.96	0.18	2.15	1.51	18.15	9.3	10
ZZ39156		0.24	0.004	0.62	0.79	49.0	<0.2	<10	140	0.94	0.21	4.68	2.40	15.60	12.1	11
ZZ39157		0.21	0.004	0.20	1.58	29.5	<0.2	<10	180	1.06	0.23	1.58	0.39	16.80	12.2	23
ZZ39158		0.21	0.009	0.17	1.43	30.5	<0.2	<10	270	1.43	0.27	1.31	0.29	23.6	15.5	19
ZZ39159		0.22	0.012	0.14	1.52	51.3	<0.2	<10	180	1.37	0.31	1.77	0.21	20.5	17.4	23
ZZ39160		0.19	0.005	0.14	1.64	21.7	<0.2	<10	410	1.19	0.26	1.53	0.35	16.15	13.3	23





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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55001		2.31	32.1	2.72	3.55	0.07	0.10	0.05	0.034	0.13	20.6	20.6	0.87	253	0.27	0.01
ZZ55002		1.43	38.5	2.20	4.14	0.06	0.15	0.18	0.035	0.08	10.0	22.8	0.55	1570	0.32	0.01
ZZ55003		1.92	29.6	4.34	6.95	<0.05	0.02	0.05	0.035	0.12	4.6	20.2	0.27	941	0.99	0.01
ZZ55004		1.42	41.4	5.43	7.61	<0.05	0.07	0.02	0.038	0.06	9.2	31.7	0.51	316	1.41	0.01
ZZ55005		0.54	58.3	3.85	3.69	0.05	0.04	0.10	0.045	0.09	8.9	14.9	0.35	2620	0.59	0.01
ZZ55006		0.94	52.7	3.52	4.82	0.05	0.04	0.10	0.037	0.07	11.5	20.6	0.69	526	0.70	0.02
ZZ55007		0.76	51.8	3.69	3.12	<0.05	0.03	0.10	0.039	0.07	9.4	15.2	0.42	434	1.18	0.01
ZZ55008		1.30	73.9	4.06	4.74	0.05	0.05	0.13	0.040	0.10	9.2	29.2	0.80	767	0.67	0.01
ZZ55009		1.40	82.2	4.33	4.11	0.05	0.05	0.13	0.053	0.10	10.7	22.0	0.55	937	1.28	0.01
ZZ55010		0.90	66.3	3.38	3.60	<0.05	0.06	0.14	0.038	0.08	7.5	19.7	0.50	645	0.91	0.01
ZZ39131		0.51	57.4	3.08	1.64	0.05	0.06	0.41	0.038	0.06	6.1	4.2	0.07	139	5.61	<0.01
ZZ39132		1.09	56.0	2.76	2.20	<0.05	0.05	0.29	0.036	0.09	3.7	6.3	0.13	139	4.63	0.01
ZZ39133		1.15	45.2	2.61	2.34	<0.05	0.04	0.27	0.038	0.08	4.6	8.9	0.21	245	4.70	0.01
ZZ39134		0.88	35.3	2.59	2.25	<0.05	0.04	0.16	0.030	0.07	5.0	8.8	0.17	144	3.61	0.01
ZZ39135		0.97	40.8	2.79	1.00	<0.05	0.04	0.16	0.033	0.06	4.1	2.3	0.02	101	4.27	<0.01
ZZ39136		1.32	46.8	1.09	1.47	<0.05	0.04	0.46	0.026	0.06	2.8	3.3	0.06	90	1.85	0.01
ZZ39137		1.76	67.4	2.70	2.81	<0.05	0.02	0.13	0.036	0.08	4.3	14.6	0.19	174	4.83	0.01
ZZ39138		2.02	44.4	1.93	1.47	<0.05	0.03	0.27	0.033	0.08	3.0	2.9	0.06	61	5.63	<0.01
ZZ39139		1.00	45.4	2.41	1.36	<0.05	0.03	0.15	0.032	0.06	3.8	4.1	0.10	101	5.13	<0.01
ZZ39140		1.20	71.6	3.03	1.36	<0.05	0.03	0.42	0.042	0.06	3.2	2.3	0.02	73	2.90	0.01
ZZ39141		3.14	69.8	2.60	1.38	0.05	0.03	0.25	0.040	0.10	3.2	4.0	0.04	97	10.75	<0.01
ZZ39142		0.70	54.0	2.83	2.10	<0.05	0.03	0.14	0.029	0.05	5.4	5.2	0.10	292	5.65	<0.01
ZZ39143		1.62	73.4	4.76	1.54	0.07	0.02	0.85	0.039	0.05	7.6	3.3	0.03	134	5.48	<0.01
ZZ39144		2.24	28.3	2.64	4.21	<0.05	<0.02	0.11	0.030	0.09	6.0	2.0	0.04	87	9.96	0.01
ZZ39145		3.18	21.3	2.56	6.75	<0.05	<0.02	0.13	0.024	0.06	8.9	3.9	0.12	87	5.13	0.01
ZZ39146		4.02	45.0	2.02	3.21	<0.05	<0.02	0.32	0.041	0.08	4.8	4.2	0.06	40	5.51	0.01
ZZ39147		4.39	40.1	2.32	3.42	<0.05	<0.02	0.08	0.028	0.09	4.1	2.2	0.04	145	9.23	0.01
ZZ39148		5.06	47.2	2.20	3.04	<0.05	<0.02	0.45	0.034	0.11	6.1	12.5	0.17	179	5.24	0.01
ZZ39149		4.26	52.4	2.40	3.08	<0.05	<0.02	0.47	0.039	0.12	6.4	14.4	0.20	130	4.65	0.01
ZZ39150		2.91	48.7	2.22	2.26	<0.05	0.02	0.34	0.038	0.11	4.6	4.6	0.08	365	10.25	0.01
ZZ39151		2.14	48.5	1.45	2.49	<0.05	0.04	0.40	0.043	0.07	5.0	4.0	0.09	53	2.97	0.01
ZZ39152		1.28	50.5	2.39	3.52	<0.05	0.04	0.48	0.033	0.09	4.8	10.4	0.28	467	4.93	0.01
ZZ39153		1.46	29.2	1.84	1.61	0.06	<0.02	0.12	0.046	0.22	3.2	0.9	0.01	11	49.0	0.01
ZZ39154		1.67	47.8	2.89	3.00	0.05	0.07	0.18	0.038	0.14	8.0	11.6	0.27	300	9.70	0.01
ZZ39155		2.16	35.6	2.47	2.06	0.05	0.06	0.17	0.041	0.15	8.5	8.9	0.46	358	4.00	0.01
ZZ39156		2.60	57.1	3.20	2.56	0.05	0.06	0.19	0.041	0.17	7.5	11.1	1.19	325	7.20	0.01
ZZ39157		1.19	48.6	3.49	4.51	<0.05	0.08	0.12	0.042	0.12	9.7	21.6	0.54	423	1.55	0.01
ZZ39158		1.90	42.2	3.57	4.43	0.06	0.08	0.23	0.041	0.16	11.6	21.6	0.77	587	2.18	0.01
ZZ39159		1.85	52.8	4.50	4.79	0.05	0.07	0.69	0.046	0.12	10.0	25.2	1.21	751	0.92	0.01
ZZ39160		1.10	44.2	3.45	4.83	<0.05	0.04	0.12	0.035	0.09	8.1	19.9	0.44	808	0.73	0.01

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ55001	0.27	27.8	550	14.2	11.0	<0.001	0.03	0.26	6.2	0.8	0.3	212	<0.01	0.03	6.0	
ZZ55002	0.23	25.6	1300	14.9	10.8	0.003	0.23	0.17	6.2	2.8	0.5	63.1	<0.01	<0.01	2.4	
ZZ55003	0.49	18.7	610	13.8	18.5	<0.001	0.03	0.42	4.0	0.3	0.7	5.7	<0.01	0.08	1.7	
ZZ55004	0.68	24.7	230	14.7	9.6	<0.001	0.01	0.48	3.7	0.2	0.7	4.3	<0.01	0.08	2.9	
ZZ55005	0.16	39.4	1330	15.7	7.1	<0.001	0.07	0.30	6.1	1.3	0.5	91.8	<0.01	0.08	0.9	
ZZ55006	0.54	31.8	740	11.6	7.5	<0.001	0.06	0.43	5.9	1.3	0.4	85.6	<0.01	0.07	1.5	
ZZ55007	0.23	32.0	640	14.3	5.2	<0.001	0.07	0.49	6.1	1.3	0.4	111.0	<0.01	0.08	1.1	
ZZ55008	0.23	36.7	590	13.4	6.5	<0.001	0.05	0.38	8.0	1.0	0.4	80.0	<0.01	0.10	2.1	
ZZ55009	0.17	38.4	960	19.7	8.0	<0.001	0.06	0.47	9.2	1.1	0.6	96.2	<0.01	0.10	1.9	
ZZ55010	0.18	27.7	950	15.4	8.6	0.002	0.11	0.47	5.7	2.3	0.4	103.5	<0.01	0.05	0.9	
ZZ39131	0.08	74.7	500	11.1	5.2	0.003	0.08	1.26	14.0	3.8	0.4	100.5	<0.01	0.06	1.3	
ZZ39132	0.12	63.8	590	12.4	7.1	0.002	0.05	1.37	6.4	3.8	0.5	73.3	<0.01	0.07	1.5	
ZZ39133	0.18	53.5	680	12.8	7.1	0.003	0.06	1.30	5.1	5.3	0.4	86.7	<0.01	0.08	1.4	
ZZ39134	0.21	44.5	700	12.0	6.8	0.002	0.07	1.16	4.3	4.8	0.4	104.5	<0.01	0.11	1.7	
ZZ39135	0.06	78.4	1650	8.5	5.3	0.002	0.07	1.51	5.4	6.3	0.3	125.5	<0.01	0.13	1.4	
ZZ39136	0.14	47.9	530	9.9	7.1	0.005	0.09	0.80	5.3	4.6	0.4	100.0	<0.01	0.06	0.8	
ZZ39137	0.21	62.8	730	11.4	8.6	0.001	0.04	1.35	4.9	4.2	0.5	63.2	<0.01	0.03	1.7	
ZZ39138	0.06	65.2	950	8.4	7.7	0.004	0.05	1.22	5.0	5.7	0.5	95.2	<0.01	0.08	1.5	
ZZ39139	0.15	65.6	990	8.7	5.9	0.007	0.09	1.24	5.2	5.9	0.4	103.5	<0.01	0.05	1.3	
ZZ39140	<0.05	65.3	1360	9.6	6.9	0.001	0.02	1.16	7.2	4.9	0.5	60.6	<0.01	0.05	2.5	
ZZ39141	0.08	133.5	990	9.5	8.9	0.004	0.16	2.17	8.1	11.0	0.7	148.0	<0.01	0.10	1.6	
ZZ39142	0.21	75.0	920	9.2	5.7	0.008	0.12	1.20	4.5	5.7	0.5	133.5	<0.01	0.09	1.1	
ZZ39143	0.06	134.0	2360	9.6	7.1	0.002	0.03	1.72	6.8	9.5	0.5	153.5	<0.01	0.14	2.2	
ZZ39144	0.50	56.7	1390	14.7	12.6	0.001	0.11	2.09	2.2	5.0	0.9	52.0	<0.01	0.09	1.0	
ZZ39145	1.02	33.4	840	12.4	10.5	0.001	0.04	1.38	2.3	3.0	0.8	30.3	<0.01	0.06	1.6	
ZZ39146	0.36	34.4	770	14.7	12.0	0.001	0.10	2.13	3.0	5.7	0.6	42.2	<0.01	0.11	1.5	
ZZ39147	0.24	36.0	740	16.1	11.7	0.002	0.07	3.72	1.9	3.7	0.7	23.2	<0.01	0.14	1.0	
ZZ39148	0.22	27.9	710	15.9	14.1	0.002	0.05	2.00	3.3	3.1	0.7	28.1	<0.01	0.05	2.5	
ZZ39149	0.24	28.9	720	14.6	13.6	0.004	0.07	2.03	4.0	4.6	0.6	42.1	<0.01	0.08	2.9	
ZZ39150	0.15	33.9	780	15.9	12.4	0.005	0.05	4.09	2.8	4.5	0.6	35.7	<0.01	0.05	1.8	
ZZ39151	0.30	20.3	700	14.4	10.1	0.005	0.11	2.44	3.2	7.2	0.5	39.1	<0.01	0.05	2.4	
ZZ39152	0.37	35.9	940	16.9	8.0	0.009	0.10	4.58	3.4	4.6	0.5	73.8	<0.01	0.04	1.2	
ZZ39153	0.08	8.8	520	17.8	13.3	0.001	0.55	10.35	1.1	9.6	0.9	84.6	<0.01	0.37	1.0	
ZZ39154	0.26	39.6	1130	14.9	12.2	0.006	0.09	3.31	4.4	4.3	0.5	59.6	<0.01	0.06	1.5	
ZZ39155	0.38	26.8	760	13.4	10.0	0.001	0.08	1.86	4.8	1.4	0.5	52.4	<0.01	0.02	2.3	
ZZ39156	0.24	38.5	1110	16.3	10.4	0.002	0.05	3.08	6.2	1.9	0.5	90.9	<0.01	0.05	3.9	
ZZ39157	0.34	28.9	780	15.5	11.8	0.001	0.07	0.74	5.8	1.7	0.6	32.3	<0.01	0.07	1.5	
ZZ39158	0.31	34.1	310	18.6	13.5	<0.001	0.03	0.81	8.5	1.0	0.6	29.3	<0.01	0.04	5.1	
ZZ39159	0.24	34.1	500	23.6	10.7	<0.001	0.03	0.43	8.7	0.9	0.6	51.1	<0.01	0.05	4.1	
ZZ39160	0.37	26.0	760	14.8	11.4	<0.001	0.06	0.39	4.8	1.3	0.6	73.3	<0.01	0.03	1.4	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55001		0.008	0.08	2.53	19	0.05	16.05	79	2.7
ZZ55002		0.005	0.09	10.05	28	<0.05	19.35	102	3.4
ZZ55003		0.010	0.13	0.32	67	0.08	2.41	58	0.5
ZZ55004		0.015	0.10	0.35	82	0.09	2.08	57	1.9
ZZ55005		0.005	0.08	1.23	35	<0.05	20.9	97	0.8
ZZ55006		0.017	0.11	1.64	51	0.14	14.25	74	0.9
ZZ55007		0.007	0.12	1.80	34	0.05	18.90	78	0.9
ZZ55008		0.009	0.07	0.88	46	<0.05	11.60	90	1.3
ZZ55009		0.006	0.10	1.04	39	0.05	20.9	91	1.6
ZZ55010		0.005	0.13	1.38	33	<0.05	14.80	107	1.7
ZZ39131		<0.005	0.12	3.18	71	0.05	54.8	199	5.1
ZZ39132		<0.005	0.21	1.45	56	0.06	18.70	223	1.8
ZZ39133		0.005	0.20	1.83	48	0.11	14.55	188	1.3
ZZ39134		<0.005	0.14	2.50	74	0.06	20.2	118	2.1
ZZ39135		<0.005	0.15	3.10	76	<0.05	34.7	266	2.4
ZZ39136		<0.005	0.21	5.15	32	<0.05	16.40	113	1.6
ZZ39137		0.006	0.20	1.87	47	0.08	10.95	253	0.5
ZZ39138		<0.005	0.21	2.43	46	0.06	17.25	287	1.3
ZZ39139		<0.005	0.13	3.14	48	0.05	20.1	227	1.3
ZZ39140		<0.005	0.48	2.22	55	<0.05	23.0	218	2.8
ZZ39141		<0.005	0.23	2.96	50	0.05	28.4	398	1.5
ZZ39142		0.005	0.09	4.37	116	0.06	27.1	270	1.4
ZZ39143		<0.005	0.34	4.11	100	<0.05	58.9	399	0.8
ZZ39144		0.013	0.51	1.51	97	0.16	6.18	266	<0.5
ZZ39145		0.040	0.38	1.13	81	0.23	4.48	132	<0.5
ZZ39146		0.007	0.39	1.47	60	0.10	7.63	135	<0.5
ZZ39147		0.006	0.55	0.83	111	0.12	3.60	209	<0.5
ZZ39148		0.005	0.63	1.43	71	0.08	9.85	146	<0.5
ZZ39149		0.005	0.50	1.59	57	0.10	9.92	138	0.6
ZZ39150		<0.005	0.62	1.87	101	0.09	8.26	252	0.5
ZZ39151		0.005	0.42	4.69	48	0.08	9.34	84	1.4
ZZ39152		0.006	0.46	5.41	166	0.17	8.68	183	1.1
ZZ39153		<0.005	3.76	4.71	196	0.85	5.15	28	<0.5
ZZ39154		0.005	0.39	2.31	84	0.06	11.30	334	2.1
ZZ39155		<0.005	0.26	0.98	27	0.06	11.75	193	2.3
ZZ39156		0.005	0.42	1.52	39	0.05	11.20	310	2.6
ZZ39157		0.008	0.15	1.26	45	0.08	13.05	98	2.2
ZZ39158		0.006	0.20	0.79	29	0.05	17.10	117	4.5
ZZ39159		0.007	0.26	0.74	33	0.08	13.60	121	2.5
ZZ39160		0.008	0.13	1.15	36	0.08	9.00	69	1.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39161		0.25	0.004	0.03	2.14	35.9	<0.2	<10	280	1.56	0.34	0.21	0.06	25.8	21.8	30
ZZ39162		0.09	0.008	0.04	1.59	26.8	<0.2	<10	100	0.81	0.32	0.14	0.16	13.80	13.1	24
ZZ39163		0.11	0.007	0.11	1.31	29.9	<0.2	<10	150	0.92	0.27	0.55	0.20	26.8	13.4	23
ZZ39164		0.22	0.003	0.14	1.39	25.0	<0.2	<10	170	0.87	0.26	0.58	0.11	19.15	12.3	25
ZZ39165		0.19	0.004	0.10	1.79	26.3	<0.2	<10	250	1.16	0.34	0.53	0.15	17.20	18.1	29
ZZ39166		0.25	0.003	0.04	1.67	11.8	<0.2	<10	190	1.12	0.38	0.36	0.12	20.6	15.7	30
ZZ39167		0.18	0.008	0.07	1.38	19.6	<0.2	<10	210	0.79	0.30	0.27	0.09	28.0	13.0	27
ZZ39168		0.21	0.003	0.06	1.63	32.8	<0.2	<10	150	1.08	0.37	0.26	0.09	21.3	14.4	28
ZZ39169		0.20	0.010	0.22	1.44	55.1	<0.2	<10	300	1.57	0.33	0.68	0.26	22.2	15.9	25
ZZ39170		0.16	0.004	0.19	1.44	17.9	<0.2	<10	240	1.27	0.30	1.38	0.45	23.6	13.6	24
ZZ39171		0.23	0.005	0.22	1.44	51.1	<0.2	<10	150	1.06	0.31	0.49	0.29	21.6	16.6	26
ZZ39172		0.17	0.004	0.14	0.91	16.0	<0.2	<10	180	1.37	0.35	0.62	0.26	20.5	16.2	16
ZZ39173		0.20	0.006	0.16	1.18	177.0	<0.2	<10	150	1.02	0.23	1.89	0.52	24.0	12.8	20
ZZ39174		0.17	0.003	0.03	1.90	20.8	<0.2	<10	200	0.71	0.28	0.34	0.32	21.3	15.9	28
ZZ39175		0.24	0.006	0.10	2.11	22.8	<0.2	<10	210	1.16	0.31	0.45	0.21	33.6	23.6	31
ZZ39176		0.18	0.002	0.06	2.08	12.8	<0.2	<10	140	0.66	0.30	0.07	0.21	32.8	10.4	29
ZZ39177		0.14	0.003	0.03	0.87	10.2	<0.2	<10	70	0.26	0.32	0.04	0.09	30.3	5.3	15
ZZ39178		0.14	0.011	0.33	1.00	21.3	<0.2	<10	120	0.97	0.31	0.13	0.17	45.9	12.0	12
ZZ39179		0.19	0.005	0.09	1.65	6.2	<0.2	10	240	1.30	0.28	2.33	0.16	44.0	11.5	36
ZZ39180		0.20	0.004	0.08	1.35	15.9	<0.2	<10	150	1.10	0.30	1.40	0.19	22.1	15.7	23
ZZ39181		0.14	0.003	0.10	1.36	14.3	<0.2	10	130	1.14	0.28	1.28	0.21	18.15	16.3	20
ZZ39182		0.15	0.004	0.22	1.74	7.4	<0.2	<10	300	1.14	0.28	0.82	0.29	36.5	11.4	25
ZZ39183		0.18	0.006	0.05	0.87	12.8	<0.2	<10	100	0.63	0.32	0.14	0.10	16.30	16.1	19
ZZ39184		0.22	0.004	0.13	1.21	10.1	<0.2	<10	190	1.20	0.30	0.44	0.22	28.5	15.0	21
ZZ39185		0.20	0.004	0.18	1.21	30.6	<0.2	<10	250	0.79	0.27	3.37	0.61	36.4	13.4	19
ZZ39186		0.18	0.003	0.42	0.40	44	<0.2	<10	90	0.41	0.09	17.70	3.16	14.50	7.4	5
ZZ39187		0.18	0.006	0.14	2.18	18.2	<0.2	<10	190	1.25	0.28	0.23	0.21	38.2	23.4	34
ZZ39188		0.19	0.005	0.17	1.87	11.6	<0.2	<10	170	0.91	0.28	1.26	0.48	25.3	16.0	31
ZZ39189		0.21	0.006	0.13	2.07	13.2	<0.2	<10	240	1.00	0.26	0.45	0.19	38.9	19.6	33
ZZ39190		0.22	0.005	0.08	2.37	16.0	<0.2	<10	210	1.26	0.29	0.17	0.15	47.7	25.9	34
ZZ39191		0.10	0.014	0.05	1.98	11.1	<0.2	<10	210	0.63	0.29	0.13	0.32	30.7	29.8	33
ZZ39192		0.14	0.009	0.26	1.96	12.4	<0.2	<10	400	0.97	0.21	1.13	0.17	25.2	13.7	30
ZZ39193		0.18	0.007	0.09	2.12	13.7	<0.2	<10	190	0.89	0.25	0.98	0.29	26.0	24.4	33
ZZ39194		0.16	0.004	0.03	2.47	13.3	<0.2	<10	290	0.78	0.22	0.25	0.19	28.5	16.0	34
ZZ39195		0.15	0.001	0.05	2.31	8.9	<0.2	<10	310	0.77	0.26	0.41	0.26	33.2	14.4	32
ZZ39196		0.14	0.013	0.16	1.89	13.1	<0.2	<10	330	1.06	0.23	1.76	0.60	18.20	18.9	28
ZZ39197		0.14	0.013	0.22	2.33	10.5	<0.2	<10	510	1.66	0.26	1.95	0.92	29.2	36.7	34
ZZ39198		0.20	0.005	0.14	2.12	15.3	<0.2	<10	180	1.15	0.26	1.27	0.29	25.4	20.3	32
ZZ39199		0.21	0.004	0.10	2.02	13.7	<0.2	<10	150	0.92	0.26	0.58	0.31	34.1	20.6	29
ZZ39200		0.20	0.005	0.13	1.95	11.5	<0.2	<10	190	0.91	0.24	1.35	0.28	23.9	15.5	28

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ39161		1.72	50.6	4.67	6.17	0.05	0.04	0.14	0.047	0.08	10.3	28.6	0.61	1280	0.70	0.01
ZZ39162		2.10	20.6	4.23	6.44	<0.05	<0.02	0.03	0.040	0.10	6.5	29.2	0.27	847	0.92	0.01
ZZ39163		2.09	24.4	3.78	4.17	0.05	0.07	0.09	0.041	0.08	10.5	21.5	0.42	1590	0.77	<0.01
ZZ39164		2.13	30.2	3.03	4.41	<0.05	0.05	0.13	0.034	0.09	9.1	27.1	0.54	533	0.78	0.01
ZZ39165		1.32	43.2	3.88	6.03	<0.05	0.07	0.07	0.050	0.08	7.1	32.7	0.61	394	0.79	0.01
ZZ39166		2.13	26.5	3.43	6.95	<0.05	0.05	0.03	0.038	0.09	9.1	26.8	0.51	434	0.81	0.01
ZZ39167		1.27	25.5	3.53	5.32	<0.05	0.05	0.03	0.042	0.07	11.6	26.0	0.48	410	1.08	0.01
ZZ39168		1.40	39.7	4.16	5.55	<0.05	0.08	0.12	0.040	0.08	8.6	29.9	0.59	464	0.68	0.01
ZZ39169		3.24	74.2	4.47	4.92	0.05	0.09	0.28	0.041	0.14	11.0	25.3	0.53	695	0.85	0.01
ZZ39170		1.88	52.7	3.24	4.72	0.05	0.06	0.21	0.042	0.11	10.3	24.2	0.57	585	0.90	0.01
ZZ39171		2.77	81.9	4.71	4.34	0.05	0.07	0.27	0.050	0.10	11.0	25.7	0.63	475	1.10	0.01
ZZ39172		10.10	42.0	4.32	3.30	<0.05	0.06	0.18	0.048	0.13	9.0	13.9	0.27	784	0.68	0.01
ZZ39173		5.93	42.2	4.00	3.66	0.07	0.07	0.47	0.038	0.09	11.2	16.7	1.04	919	0.69	0.01
ZZ39174		1.15	54.0	4.57	5.99	<0.05	0.04	0.10	0.047	0.08	8.1	29.6	0.58	636	1.02	0.01
ZZ39175		1.70	90.6	5.23	5.96	0.07	0.10	0.20	0.043	0.13	13.8	40.0	0.96	808	0.73	0.01
ZZ39176		1.71	24.8	3.47	7.11	<0.05	0.04	0.06	0.039	0.06	13.9	22.6	0.37	443	1.46	0.01
ZZ39177		1.17	13.5	2.25	6.02	0.05	<0.02	0.03	0.023	0.06	13.4	4.7	0.12	248	1.02	0.01
ZZ39178		0.48	38.9	2.13	1.52	<0.05	0.44	0.18	0.037	0.11	10.9	8.7	0.12	289	1.18	0.01
ZZ39179		1.86	40.3	2.65	5.72	0.10	0.11	0.08	0.044	0.10	22.3	42.7	1.26	368	0.30	0.01
ZZ39180		0.88	45.0	3.63	3.84	0.05	0.05	0.29	0.038	0.10	8.6	23.0	0.57	796	0.79	0.01
ZZ39181		0.75	51.6	3.70	4.13	<0.05	0.07	0.24	0.045	0.10	7.3	22.2	0.54	723	1.07	0.01
ZZ39182		1.69	35.7	3.49	4.87	0.08	0.03	0.08	0.041	0.05	17.8	19.6	0.33	424	0.95	0.01
ZZ39183		3.99	42.7	4.66	4.08	0.05	0.02	0.04	0.044	0.09	7.8	15.8	0.27	296	0.93	0.01
ZZ39184		8.44	51.0	3.87	3.70	0.08	0.03	0.06	0.047	0.12	12.4	19.7	0.33	545	0.76	0.01
ZZ39185		0.86	30.6	3.03	3.28	0.05	0.03	0.18	0.037	0.05	16.7	7.6	0.27	773	1.24	0.01
ZZ39186		0.39	32.1	2.67	1.10	0.05	0.04	2.11	0.018	0.03	5.9	3.8	9.84	1350	0.59	0.02
ZZ39187		1.27	119.5	5.41	6.52	0.09	0.06	0.22	0.057	0.09	19.3	41.7	1.06	619	0.68	0.01
ZZ39188		1.20	70.0	4.14	5.22	0.05	0.06	0.19	0.044	0.09	10.7	32.8	0.91	609	1.44	0.01
ZZ39189		1.57	77.0	4.21	6.11	0.07	0.07	0.17	0.047	0.08	19.0	35.5	0.87	557	0.93	0.01
ZZ39190		1.51	111.5	5.08	6.65	0.09	0.05	0.13	0.048	0.09	21.7	40.9	1.11	973	0.68	0.01
ZZ39191		6.63	49.0	5.17	8.64	0.05	0.02	0.05	0.071	0.07	11.5	33.0	0.46	1480	1.12	0.01
ZZ39192		4.26	127.5	3.79	5.55	0.07	0.07	0.19	0.044	0.10	13.4	35.8	0.89	462	0.86	0.01
ZZ39193		1.09	106.0	4.97	6.41	0.06	0.06	0.12	0.047	0.09	9.3	34.0	1.29	849	0.87	0.01
ZZ39194		1.83	56.0	4.58	6.76	<0.05	0.08	0.06	0.046	0.07	10.7	44.2	0.79	432	0.69	0.01
ZZ39195		2.70	44.1	4.06	8.10	<0.05	0.04	0.05	0.048	0.07	12.1	33.2	0.65	713	0.84	0.01
ZZ39196		1.54	101.0	3.60	5.30	0.07	0.06	0.18	0.040	0.07	7.5	26.2	0.93	700	1.25	0.02
ZZ39197		7.50	181.5	4.84	7.07	0.10	0.05	0.13	0.079	0.07	9.5	31.6	0.97	2590	0.80	0.02
ZZ39198		2.39	115.0	4.38	6.20	0.06	0.09	0.18	0.047	0.13	12.4	42.4	0.97	676	0.72	0.01
ZZ39199		1.23	81.2	4.43	5.98	0.06	0.10	0.12	0.040	0.12	14.6	43.2	0.97	707	0.77	0.01
ZZ39200		0.96	79.3	3.65	5.52	0.05	0.09	0.15	0.042	0.10	9.6	34.0	0.83	605	0.60	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39161		0.29	34.0	230	23.2	13.5	<0.001	0.02	0.39	6.5	0.6	0.7	16.1	<0.01	0.08	4.9
ZZ39162		0.63	15.8	450	17.7	20.0	<0.001	0.03	0.37	3.1	0.4	0.8	9.0	<0.01	0.05	3.1
ZZ39163		0.54	24.0	470	21.6	11.1	<0.001	0.03	0.44	6.6	0.6	0.6	17.4	0.01	0.05	3.4
ZZ39164		0.56	24.1	410	16.3	11.0	<0.001	0.04	0.36	4.6	1.1	0.7	22.3	<0.01	0.01	2.8
ZZ39165		0.52	33.5	340	17.7	12.2	<0.001	0.02	0.36	6.2	0.4	0.8	23.0	<0.01	0.05	3.1
ZZ39166		0.67	26.5	390	21.5	15.9	<0.001	0.02	0.31	5.2	0.2	0.9	23.6	<0.01	0.02	3.2
ZZ39167		0.70	27.4	340	16.0	12.7	<0.001	0.01	0.46	4.5	<0.2	0.7	24.1	<0.01	0.02	3.8
ZZ39168		0.37	29.7	300	20.5	10.8	<0.001	0.01	0.31	6.1	0.9	0.7	17.9	<0.01	0.05	4.7
ZZ39169		0.41	34.0	630	23.4	20.4	<0.001	0.03	0.45	10.7	1.1	0.7	39.2	<0.01	0.05	3.9
ZZ39170		0.40	30.7	690	17.7	12.2	<0.001	0.06	0.61	6.5	1.3	0.6	61.9	<0.01	0.06	1.7
ZZ39171		0.28	36.1	640	20.3	12.7	<0.001	0.02	0.51	11.5	1.1	0.6	33.9	<0.01	0.06	3.4
ZZ39172		0.26	27.3	470	49.8	19.8	<0.001	0.04	0.36	6.7	1.2	0.6	42.1	<0.01	0.05	2.9
ZZ39173		0.22	27.2	730	23.1	14.5	<0.001	0.08	0.35	6.8	1.5	0.5	39.5	<0.01	0.04	2.0
ZZ39174		0.36	25.7	380	19.5	13.2	<0.001	0.02	0.41	6.7	0.7	0.6	21.9	<0.01	0.09	2.5
ZZ39175		0.15	44.9	480	21.7	9.7	<0.001	0.03	0.53	12.1	1.2	0.5	34.0	<0.01	0.09	4.6
ZZ39176		1.26	19.3	310	14.8	13.0	<0.001	0.01	0.50	4.0	0.6	0.8	8.9	<0.01	0.06	3.8
ZZ39177		0.78	8.8	190	15.4	14.1	<0.001	0.01	0.29	2.2	0.2	0.8	7.2	<0.01	0.05	2.4
ZZ39178		0.10	24.2	280	30.7	7.7	<0.001	0.01	0.46	4.2	1.5	0.4	15.1	<0.01	0.03	7.0
ZZ39179		0.42	30.6	760	18.4	13.2	<0.001	0.08	0.26	7.8	1.4	0.6	84.5	<0.01	<0.01	2.7
ZZ39180		0.25	32.9	770	16.5	7.7	<0.001	0.05	0.34	6.9	0.9	0.5	52.6	<0.01	0.02	2.7
ZZ39181		0.21	31.6	740	15.9	7.8	<0.001	0.05	0.39	7.1	1.1	0.6	53.5	<0.01	0.06	2.3
ZZ39182		0.67	24.0	970	14.8	12.1	<0.001	0.05	0.44	5.9	1.7	0.6	31.9	<0.01	0.02	1.0
ZZ39183		0.39	29.2	430	16.8	10.4	<0.001	0.01	0.57	7.3	0.6	0.6	14.2	<0.01	0.02	2.6
ZZ39184		0.37	32.7	560	24.9	15.2	<0.001	0.02	0.44	11.3	1.7	0.7	28.3	<0.01	0.02	2.5
ZZ39185		0.48	25.6	990	24.6	6.8	<0.001	0.08	0.61	2.9	2.3	0.5	246	<0.01	0.07	0.6
ZZ39186		<0.05	12.3	170	211	2.8	<0.001	0.02	2.60	5.6	0.9	0.2	106.5	<0.01	0.01	1.1
ZZ39187		0.10	43.6	400	18.5	7.6	<0.001	0.01	0.50	17.7	1.3	0.5	18.7	<0.01	0.09	5.0
ZZ39188		0.40	32.9	860	15.3	8.4	0.001	0.08	0.47	10.1	2.1	0.5	74.1	<0.01	0.09	2.0
ZZ39189		0.52	40.5	930	14.7	10.2	<0.001	0.03	0.55	12.2	1.4	0.5	30.8	<0.01	0.06	3.4
ZZ39190		0.08	41.0	540	19.5	8.5	<0.001	0.01	0.52	15.7	1.5	0.4	14.9	<0.01	0.10	4.9
ZZ39191		0.93	18.7	540	11.7	10.5	<0.001	0.02	0.39	6.7	0.2	0.9	10.8	<0.01	0.11	2.1
ZZ39192		0.46	31.4	970	10.8	10.7	<0.001	0.08	0.59	9.4	2.6	0.5	63.4	<0.01	0.07	1.3
ZZ39193		0.19	38.6	610	14.1	5.4	<0.001	0.04	0.42	10.2	1.4	0.5	32.6	<0.01	0.11	2.1
ZZ39194		0.49	29.5	280	13.0	9.3	<0.001	0.01	0.53	6.9	0.2	0.6	14.1	<0.01	0.06	3.6
ZZ39195		0.60	25.1	470	13.2	15.3	<0.001	0.02	0.30	6.5	0.8	0.8	17.8	<0.01	0.09	2.4
ZZ39196		0.41	31.1	930	31.0	8.7	<0.001	0.11	0.72	9.7	1.9	0.4	49.2	<0.01	0.09	1.3
ZZ39197		0.34	31.8	1420	28.7	10.1	<0.001	0.12	0.43	17.6	3.8	0.8	57.0	<0.01	0.13	0.9
ZZ39198		0.28	39.2	680	15.6	9.4	<0.001	0.05	0.58	10.7	1.8	0.4	58.0	<0.01	0.09	2.5
ZZ39199		0.17	39.4	630	15.9	7.4	<0.001	0.02	0.62	8.8	1.0	0.3	34.8	<0.01	0.06	4.0
ZZ39200		0.16	33.6	780	14.8	8.7	<0.001	0.10	0.57	6.5	1.4	0.4	54.8	<0.01	0.05	1.5

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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39161		0.008	0.23	0.75	41	0.12	7.59	78	1.5
ZZ39162		0.011	0.17	0.46	48	0.17	2.76	84	<0.5
ZZ39163		0.011	0.20	1.02	32	0.14	13.30	96	1.5
ZZ39164		0.021	0.15	1.20	34	0.18	7.17	84	1.2
ZZ39165		0.010	0.14	1.23	34	0.11	8.80	83	1.8
ZZ39166		0.014	0.11	0.76	35	0.19	7.78	81	1.6
ZZ39167		0.017	0.13	0.76	41	0.15	6.86	78	1.3
ZZ39168		0.011	0.15	0.71	36	0.06	8.97	86	2.0
ZZ39169		0.008	0.26	1.42	33	0.09	23.1	106	2.7
ZZ39170		0.007	0.16	1.64	34	0.08	16.10	101	1.5
ZZ39171		0.009	0.17	0.97	45	0.08	16.45	99	1.9
ZZ39172		0.006	2.59	1.33	21	<0.05	13.95	111	1.5
ZZ39173		0.005	0.73	1.49	32	0.07	17.40	181	2.0
ZZ39174		0.006	0.17	0.62	58	0.07	7.15	85	1.2
ZZ39175		0.005	0.11	0.85	49	<0.05	15.50	91	3.5
ZZ39176		0.033	0.16	0.58	69	0.24	3.90	59	1.5
ZZ39177		0.024	0.10	0.46	61	0.14	2.96	32	<0.5
ZZ39178		<0.005	0.25	6.43	33	<0.05	7.12	17	17.5
ZZ39179		0.010	0.11	3.46	25	<0.05	28.5	83	3.1
ZZ39180		0.005	0.10	1.78	28	0.07	13.75	81	1.6
ZZ39181		<0.005	0.10	1.23	31	0.08	13.75	70	1.8
ZZ39182		0.017	0.09	1.93	53	0.14	18.90	49	0.6
ZZ39183		0.012	0.08	0.39	45	0.11	7.88	83	<0.5
ZZ39184		0.011	0.10	1.05	38	0.09	27.5	83	0.7
ZZ39185		0.015	0.14	2.07	35	0.15	31.1	64	0.7
ZZ39186		<0.005	0.10	0.72	16	<0.05	25.0	187	1.1
ZZ39187		0.006	0.09	0.83	55	<0.05	23.0	84	2.5
ZZ39188		0.014	0.08	3.08	51	0.06	13.80	100	1.6
ZZ39189		0.016	0.11	0.86	54	0.10	21.6	98	2.0
ZZ39190		<0.005	0.10	0.92	54	<0.05	19.80	94	1.9
ZZ39191		0.022	0.12	0.49	86	0.13	6.24	74	0.6
ZZ39192		0.013	0.10	1.73	49	0.10	23.1	73	1.7
ZZ39193		0.009	0.06	0.42	64	<0.05	9.61	82	1.8
ZZ39194		0.009	0.10	0.38	63	0.09	4.35	66	2.6
ZZ39195		0.014	0.10	0.49	72	0.12	6.40	75	1.0
ZZ39196		0.010	0.09	0.61	47	0.06	15.75	76	1.7
ZZ39197		0.012	0.11	0.53	66	0.07	34.1	64	1.0
ZZ39198		0.007	0.09	1.00	51	0.12	17.45	91	2.8
ZZ39199		0.006	0.07	0.72	43	<0.05	13.65	89	3.7
ZZ39200		<0.005	0.08	0.72	43	<0.05	11.15	86	2.7



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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39201		0.21	0.009	0.19	1.81	16.8	<0.2	<10	220	1.04	0.29	0.90	0.25	21.6	13.3	29
ZZ39202		0.18	0.032	0.04	2.29	13.7	<0.2	<10	100	0.99	0.26	0.21	0.11	31.0	24.0	31
ZZ39203		0.22	0.004	0.10	2.25	18.9	<0.2	<10	200	1.82	0.28	0.15	0.37	55.4	20.2	35
ZZ39204		0.16	0.002	0.05	1.58	13.6	<0.2	<10	140	0.51	0.26	0.19	0.23	23.7	12.1	24
ZZ39205		0.17	0.003	0.11	1.61	12.6	<0.2	<10	210	0.86	0.26	0.74	0.34	26.5	13.1	22
ZZ39206		0.20	0.003	0.04	1.77	14.3	<0.2	<10	150	0.75	0.30	0.19	0.20	28.3	15.0	26
ZZ39207		0.19	0.003	0.13	2.52	22.0	<0.2	<10	210	1.20	0.33	0.12	0.29	24.4	24.4	34
ZZ39208		0.18	0.002	0.08	2.64	15.3	<0.2	<10	310	1.58	0.26	0.07	0.14	27.9	20.0	34
ZZ39209		0.24	0.002	0.03	1.81	13.9	<0.2	<10	120	0.52	0.29	0.09	0.19	26.8	11.7	28
ZZ39210		0.13	0.004	0.11	1.66	14.2	<0.2	<10	230	1.00	0.29	0.33	0.12	31.1	10.6	27
ZZ39211		0.13	0.002	0.03	1.40	8.6	<0.2	<10	180	0.40	0.24	0.13	0.11	23.1	4.2	19
ZZ39212		0.18	0.003	0.04	2.08	14.9	<0.2	<10	140	1.04	0.34	0.14	0.22	31.9	21.5	30
ZZ39213		0.19	0.005	0.21	2.85	18.4	<0.2	<10	150	2.15	0.24	0.73	0.43	58.4	18.2	31
ZZ39214		0.17	0.001	0.02	1.33	9.1	<0.2	<10	210	0.41	0.23	0.28	0.20	20.7	6.8	21
ZZ39215		0.21	0.001	0.04	1.45	8.0	<0.2	<10	130	0.35	0.26	0.10	0.09	26.2	7.4	19
ZZ39216		0.21	0.003	0.04	1.82	10.6	<0.2	<10	230	0.76	0.30	0.13	0.14	27.4	9.7	24
ZZ39217		0.18	0.002	0.03	1.06	13.7	<0.2	<10	70	0.34	0.32	0.19	0.08	22.4	6.5	15
ZZ39218		0.16	0.005	0.07	1.72	20.0	<0.2	<10	120	0.97	0.44	0.10	0.29	30.1	17.2	25
ZZ39219		0.17	0.004	0.13	1.56	73.8	<0.2	<10	190	0.88	0.34	0.85	1.25	13.55	11.4	29
ZZ39220		0.13	0.002	0.09	1.95	9.5	<0.2	<10	290	0.74	0.29	0.20	0.08	22.9	6.8	25
ZZ39221		0.14	0.005	0.64	0.57	12.9	<0.2	<10	360	0.44	0.29	0.04	0.48	6.36	6.1	11
ZZ39222		0.20	0.004	0.34	0.47	16.6	<0.2	<10	200	0.41	0.30	0.01	0.45	9.03	7.8	9
ZZ39223		0.21	0.006	0.56	0.56	67.5	<0.2	<10	660	0.43	0.27	0.01	0.29	8.72	4.1	12
ZZ39224		0.20	0.008	0.54	1.08	26.5	<0.2	<10	260	0.83	0.23	0.12	1.64	21.3	13.0	19
ZZ39225		0.21	0.005	0.44	1.27	26.4	<0.2	<10	310	0.82	0.24	0.09	0.85	26.1	12.9	20
ZZ39226		0.17	0.005	0.62	0.63	29.8	<0.2	<10	280	0.25	0.24	0.02	0.29	12.85	5.1	13
ZZ39227		0.18	0.019	1.36	0.55	39.9	<0.2	<10	280	0.45	0.25	0.04	2.36	10.35	3.7	24
ZZ39228		0.21	0.002	0.49	1.66	39.7	<0.2	<10	140	0.63	0.26	0.03	1.29	14.30	10.5	31
ZZ39229		0.15	0.011	0.52	0.59	36.9	<0.2	<10	570	0.33	0.24	0.26	5.35	11.70	4.0	20
ZZ39230		0.20	0.004	0.09	1.38	33.0	<0.2	<10	230	0.51	0.30	0.08	1.21	16.75	9.0	31
ZZ39231		0.12	0.003	0.50	0.86	17.8	<0.2	<10	440	0.67	0.20	0.81	6.08	16.70	4.6	57
ZZ39232		0.15	0.002	0.30	1.08	22.8	<0.2	<10	210	0.62	0.23	0.14	1.34	12.95	7.3	22
ZZ39233		0.24	0.002	0.12	1.67	24.2	<0.2	<10	250	1.10	0.25	0.14	0.31	29.2	12.1	26
ZZ39234		0.24	0.002	0.13	1.23	23.2	<0.2	<10	200	0.82	0.23	0.22	1.13	18.85	11.7	17
ZZ39235		0.19	0.007	2.62	1.10	23.5	<0.2	<10	400	1.03	0.19	0.88	6.35	21.3	9.6	16
ZZ39236		0.18	0.002	0.18	1.57	13.2	<0.2	<10	330	0.72	0.23	0.27	0.90	18.60	7.4	26
ZZ39237		0.25	0.002	0.03	1.66	59.2	<0.2	<10	240	0.94	0.30	0.10	0.14	19.40	16.3	26
ZZ39238		0.13	0.003	0.05	1.63	10.4	<0.2	<10	620	2.00	0.25	0.66	0.11	40.5	18.8	24
ZZ39239		0.18	0.002	0.04	1.36	40.0	<0.2	<10	280	1.13	0.41	0.13	0.07	14.00	17.3	29
ZZ39240		0.21	0.007	0.27	1.06	29.2	<0.2	<10	220	1.21	0.27	1.29	0.19	17.05	9.8	17





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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ39201		1.23	85.0	4.08	5.32	0.06	0.10	0.20	0.039	0.08	11.2	40.0	0.77	453	0.72	0.01
ZZ39202		1.07	61.6	4.67	6.57	<0.05	0.07	0.09	0.037	0.08	12.7	54.5	1.00	697	0.64	<0.01
ZZ39203		0.95	49.7	6.37	5.75	0.08	0.08	0.08	0.044	0.04	12.3	46.7	0.83	1570	0.92	0.01
ZZ39204		1.18	26.5	3.77	6.43	<0.05	0.03	0.05	0.028	0.04	9.9	31.7	0.45	464	1.07	0.01
ZZ39205		2.21	45.1	3.38	5.12	0.05	0.04	0.11	0.036	0.05	12.6	36.1	0.42	529	0.68	0.01
ZZ39206		1.89	26.5	3.86	6.33	<0.05	0.03	0.05	0.033	0.05	10.8	38.8	0.49	580	1.18	<0.01
ZZ39207		2.22	67.9	6.25	5.79	0.05	0.06	0.08	0.049	0.04	9.0	46.7	0.69	783	1.32	0.01
ZZ39208		1.39	42.9	4.90	6.24	0.05	0.12	0.06	0.054	0.05	9.3	54.0	0.75	520	0.69	0.01
ZZ39209		1.52	16.3	3.60	6.63	<0.05	0.04	0.03	0.026	0.05	11.6	33.4	0.44	420	1.48	0.01
ZZ39210		1.62	27.0	3.36	4.96	0.05	0.04	0.13	0.029	0.04	14.0	29.3	0.52	493	0.70	0.01
ZZ39211		1.13	11.7	2.47	6.36	<0.05	<0.02	0.03	0.017	0.03	10.9	18.3	0.22	157	1.35	0.01
ZZ39212		2.27	26.0	4.76	6.29	<0.05	0.03	0.07	0.044	0.04	9.5	51.8	0.46	1520	1.04	0.01
ZZ39213		1.15	43.1	5.11	4.35	0.08	0.07	0.10	0.056	0.04	16.0	42.0	0.57	1660	0.79	0.01
ZZ39214		0.49	16.5	2.85	6.12	<0.05	0.03	0.04	0.023	0.07	9.6	26.1	0.34	288	0.96	0.01
ZZ39215		0.90	10.8	2.62	7.27	0.05	<0.02	0.05	0.020	0.03	11.9	13.4	0.18	337	1.25	0.01
ZZ39216		1.47	15.0	3.20	7.13	0.06	0.03	0.05	0.027	0.03	12.0	24.7	0.29	409	1.50	0.01
ZZ39217		1.49	15.5	3.16	6.02	<0.05	0.02	0.05	0.021	0.04	10.1	16.4	0.19	254	1.18	0.01
ZZ39218		1.24	31.5	3.99	4.77	0.05	0.04	0.08	0.040	0.03	9.2	39.2	0.48	825	1.08	0.01
ZZ39219		1.45	66.2	3.92	5.31	<0.05	0.05	0.10	0.039	0.10	7.7	32.5	0.52	1060	1.07	0.01
ZZ39220		1.55	13.4	2.89	6.99	<0.05	<0.02	0.04	0.029	0.04	10.7	28.8	0.35	343	1.27	0.01
ZZ39221		2.96	61.1	2.39	2.65	<0.05	<0.02	0.09	0.033	0.14	3.1	2.6	0.05	121	4.75	0.01
ZZ39222		4.56	64.5	2.87	2.71	<0.05	<0.02	0.08	0.032	0.11	4.3	2.9	0.05	78	5.05	0.01
ZZ39223		1.56	26.7	3.22	2.34	<0.05	0.03	0.32	0.055	0.22	3.7	5.2	0.08	54	7.68	0.01
ZZ39224		4.02	51.0	2.85	2.89	0.05	0.05	0.19	0.032	0.10	9.7	9.4	0.22	372	8.02	0.01
ZZ39225		7.08	44.4	3.31	3.95	0.05	<0.02	0.10	0.041	0.09	9.7	12.0	0.25	438	4.68	0.01
ZZ39226		6.91	31.9	2.32	3.76	<0.05	<0.02	0.08	0.025	0.08	6.4	1.9	0.05	114	5.72	0.01
ZZ39227		2.99	45.4	2.25	3.90	0.06	<0.02	0.12	0.031	0.09	5.9	1.6	0.03	84	32.4	0.01
ZZ39228		2.70	39.4	3.82	5.34	<0.05	0.03	0.17	0.034	0.11	7.1	19.9	0.35	333	19.60	0.01
ZZ39229		2.94	30.6	1.89	4.48	<0.05	<0.02	0.09	0.022	0.08	6.3	2.1	0.05	91	25.8	0.01
ZZ39230		2.24	33.7	3.60	6.69	<0.05	<0.02	0.07	0.029	0.10	7.6	11.1	0.23	441	10.40	0.01
ZZ39231		0.96	46.6	1.61	4.18	0.06	0.02	0.13	0.020	0.10	13.1	5.3	0.09	334	16.55	0.01
ZZ39232		1.44	33.6	3.01	4.57	<0.05	<0.02	0.06	0.029	0.08	6.7	8.0	0.16	384	11.55	0.01
ZZ39233		1.50	23.8	3.34	5.29	0.05	0.06	0.08	0.036	0.09	11.2	18.2	0.33	687	2.01	0.01
ZZ39234		1.68	40.1	3.39	3.90	<0.05	0.02	0.06	0.033	0.12	7.1	18.4	0.25	305	7.03	<0.01
ZZ39235		1.23	100.0	3.02	3.40	0.06	0.06	0.16	0.031	0.17	8.7	10.8	0.25	179	11.60	0.01
ZZ39236		1.21	17.8	2.86	5.35	<0.05	0.02	0.06	0.030	0.10	8.2	17.2	0.37	374	3.08	0.01
ZZ39237		1.92	40.1	4.11	5.08	<0.05	0.05	0.07	0.046	0.08	7.4	29.7	0.49	603	0.95	0.01
ZZ39238		1.69	31.0	3.97	4.09	0.09	0.03	0.06	0.050	0.13	17.1	17.0	0.31	505	1.77	0.01
ZZ39239		1.96	26.4	3.90	5.33	<0.05	0.03	0.12	0.036	0.11	5.3	19.4	0.35	1380	0.99	0.01
ZZ39240		3.35	26.8	2.94	3.32	0.09	0.08	0.22	0.034	0.13	10.8	12.5	0.20	1070	0.66	0.01

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39201		0.18	33.2	600	18.1	7.6	<0.001	0.04	0.56	11.7	1.5	0.4	52.5	<0.01	0.10	2.7
ZZ39202		0.11	38.3	230	19.1	8.2	0.001	0.01	0.47	4.9	0.3	0.3	22.1	<0.01	0.13	3.7
ZZ39203		0.16	36.1	530	22.8	7.6	<0.001	0.01	0.58	10.0	1.3	0.5	18.3	<0.01	0.07	5.3
ZZ39204		0.67	22.6	280	15.1	11.7	<0.001	0.01	0.52	3.7	0.6	0.7	17.1	<0.01	0.09	3.3
ZZ39205		0.51	23.2	640	16.9	9.3	<0.001	0.02	0.45	4.8	1.2	0.5	53.2	<0.01	0.04	2.3
ZZ39206		0.76	24.9	450	20.0	10.6	<0.001	0.01	0.59	3.7	0.6	0.6	17.1	<0.01	0.06	3.5
ZZ39207		0.48	39.8	410	23.4	10.2	<0.001	0.01	0.98	9.5	1.0	0.5	11.1	<0.01	0.07	3.5
ZZ39208		0.25	40.7	300	16.2	12.8	<0.001	0.01	0.43	6.0	0.7	0.5	9.9	<0.01	0.05	4.5
ZZ39209		1.24	22.6	330	17.0	10.9	<0.001	0.01	0.65	2.9	0.8	0.7	10.5	<0.01	0.03	3.8
ZZ39210		0.72	26.9	620	15.2	8.6	<0.001	0.01	0.49	5.0	0.9	0.5	26.5	<0.01	0.01	3.4
ZZ39211		1.04	10.1	180	12.6	5.5	<0.001	0.01	0.42	2.1	0.2	0.8	10.9	<0.01	0.04	2.8
ZZ39212		0.79	24.9	660	28.1	9.5	<0.001	0.03	0.52	3.7	0.8	0.6	11.7	<0.01	0.08	2.5
ZZ39213		0.20	29.6	1180	29.4	7.7	0.001	0.04	0.56	9.3	1.8	0.3	37.7	0.01	0.05	4.2
ZZ39214		0.85	13.1	220	12.2	5.3	<0.001	0.01	0.36	2.6	0.3	0.7	27.8	<0.01	0.04	2.5
ZZ39215		1.05	9.3	220	11.1	7.7	<0.001	<0.01	0.46	2.3	0.6	0.9	9.3	<0.01	0.07	2.8
ZZ39216		1.20	14.7	270	17.0	7.0	<0.001	0.01	0.45	3.2	0.5	0.8	11.2	<0.01	0.05	3.1
ZZ39217		0.62	10.0	350	13.7	9.2	<0.001	0.01	0.47	1.9	0.5	0.6	12.0	<0.01	0.07	2.4
ZZ39218		0.45	33.6	740	25.5	6.4	<0.001	0.02	0.73	3.4	0.9	0.6	13.0	<0.01	0.08	3.0
ZZ39219		0.50	28.6	1170	15.9	23.9	<0.001	0.06	0.57	4.3	2.1	0.5	60.7	<0.01	0.05	1.3
ZZ39220		1.01	14.7	390	14.8	10.1	<0.001	0.01	0.35	2.4	0.6	0.8	17.5	<0.01	0.04	1.9
ZZ39221		0.16	29.9	1090	19.1	18.2	<0.001	0.07	2.75	1.7	2.2	0.6	21.6	<0.01	0.11	0.9
ZZ39222		0.41	37.3	500	23.2	15.5	<0.001	0.07	3.37	2.4	3.1	0.7	21.6	<0.01	0.12	1.7
ZZ39223		0.18	20.7	540	24.1	15.3	<0.001	0.38	3.29	2.7	3.7	0.7	53.3	<0.01	0.09	2.6
ZZ39224		0.37	53.2	960	16.0	12.1	0.001	0.05	4.14	3.6	3.5	0.5	30.1	<0.01	0.08	4.1
ZZ39225		0.43	39.8	790	19.0	16.6	<0.001	0.04	2.18	3.9	1.9	0.6	20.5	<0.01	0.06	2.2
ZZ39226		0.29	31.7	630	12.8	13.9	<0.001	0.05	2.36	0.7	2.1	0.7	16.1	<0.01	0.09	0.2
ZZ39227		0.13	60.5	1540	15.1	15.0	0.001	0.11	11.80	0.3	8.4	1.1	29.8	<0.01	0.17	<0.2
ZZ39228		0.65	58.7	700	17.6	15.7	0.002	0.06	6.40	3.2	4.7	0.8	17.9	<0.01	0.12	1.9
ZZ39229		0.09	69.9	1110	12.9	13.8	0.002	0.06	12.30	0.2	7.4	1.0	27.0	<0.01	0.17	<0.2
ZZ39230		0.26	38.7	890	15.6	16.0	0.001	0.05	3.05	0.6	3.1	0.9	13.8	<0.01	0.11	<0.2
ZZ39231		0.23	53.2	2240	11.6	17.5	0.001	0.12	7.84	0.5	4.5	0.6	28.3	<0.01	0.11	<0.2
ZZ39232		0.18	34.1	1790	12.9	12.1	0.001	0.10	4.23	0.6	2.5	0.6	10.9	<0.01	0.10	<0.2
ZZ39233		0.45	24.4	1290	17.4	16.0	<0.001	0.07	0.95	3.7	1.4	0.7	10.7	<0.01	0.05	1.5
ZZ39234		0.27	33.1	540	21.5	13.9	0.001	0.02	3.83	3.0	2.9	0.6	16.0	<0.01	0.09	2.3
ZZ39235		0.20	46.6	2720	16.5	12.8	0.003	0.06	6.82	5.0	3.9	0.6	48.9	<0.01	0.07	2.7
ZZ39236		0.42	20.1	1410	11.2	20.0	<0.001	0.05	0.87	1.8	0.7	0.6	16.4	<0.01	0.03	0.6
ZZ39237		0.33	29.5	420	20.2	12.6	<0.001	0.03	0.45	5.1	0.6	0.7	10.8	<0.01	0.07	2.4
ZZ39238		0.20	46.4	660	21.1	16.0	<0.001	0.03	0.19	6.9	1.1	0.8	31.8	<0.01	<0.01	2.7
ZZ39239		0.49	25.4	340	29.5	17.2	<0.001	0.02	0.33	4.6	0.4	0.9	10.4	<0.01	0.04	4.0
ZZ39240		0.32	21.3	740	22.8	13.9	<0.001	0.07	0.38	6.1	0.9	0.7	28.7	<0.01	0.02	2.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39201		0.005	0.08	0.89	39	0.05	17.80	81	3.0
ZZ39202		<0.005	0.06	0.38	47	<0.05	3.59	77	2.3
ZZ39203		<0.005	0.07	1.09	42	<0.05	12.45	74	3.0
ZZ39204		0.013	0.09	0.52	51	0.14	4.30	54	1.8
ZZ39205		0.011	0.09	1.07	40	0.11	12.90	63	1.2
ZZ39206		0.015	0.11	0.67	51	0.18	4.59	69	1.4
ZZ39207		0.008	0.14	0.66	70	0.10	6.71	90	2.2
ZZ39208		<0.005	0.10	0.69	45	0.05	6.21	67	5.0
ZZ39209		0.032	0.14	0.53	58	0.23	3.22	64	1.5
ZZ39210		0.020	0.11	0.97	41	0.18	10.05	71	1.1
ZZ39211		0.024	0.13	0.42	62	0.21	2.24	34	0.8
ZZ39212		0.017	0.14	0.91	51	0.14	6.14	102	0.8
ZZ39213		<0.005	0.08	1.90	30	<0.05	23.1	64	2.5
ZZ39214		0.018	0.07	0.40	59	0.19	2.74	48	1.0
ZZ39215		0.027	0.13	0.35	72	0.21	1.92	49	0.6
ZZ39216		0.023	0.15	0.73	65	0.25	4.27	50	1.1
ZZ39217		0.015	0.11	0.33	47	0.12	1.96	40	0.6
ZZ39218		0.012	0.08	0.70	33	0.11	5.46	69	1.4
ZZ39219		0.017	0.06	5.52	43	0.08	8.14	234	1.4
ZZ39220		0.018	0.16	0.59	60	0.24	3.37	61	<0.5
ZZ39221		0.005	0.25	0.72	55	<0.05	3.39	236	<0.5
ZZ39222		0.012	0.36	0.55	41	0.08	3.84	259	<0.5
ZZ39223		<0.005	1.40	0.70	54	0.06	3.97	127	1.5
ZZ39224		0.011	0.55	1.67	82	0.16	8.28	297	1.7
ZZ39225		0.012	0.55	1.25	61	0.14	9.55	200	<0.5
ZZ39226		0.010	0.53	0.79	74	0.14	2.64	195	<0.5
ZZ39227		<0.005	2.57	3.15	257	0.24	5.67	369	<0.5
ZZ39228		0.010	2.12	1.63	206	0.19	5.06	323	0.8
ZZ39229		<0.005	1.71	1.84	287	0.19	6.32	383	<0.5
ZZ39230		0.009	1.57	1.30	254	0.18	3.86	196	<0.5
ZZ39231		0.005	0.84	3.92	670	0.25	17.85	370	<0.5
ZZ39232		0.005	0.97	1.40	182	0.12	5.71	198	<0.5
ZZ39233		0.009	0.27	1.08	50	0.16	8.79	92	1.5
ZZ39234		<0.005	0.28	1.42	66	0.06	5.75	317	0.8
ZZ39235		<0.005	0.31	2.94	93	<0.05	14.55	648	2.3
ZZ39236		0.011	0.20	1.17	63	0.13	4.63	150	0.7
ZZ39237		0.006	0.22	0.58	44	0.12	5.10	82	1.3
ZZ39238		<0.005	0.17	1.00	29	0.05	17.35	92	1.2
ZZ39239		0.010	0.27	0.70	34	0.28	5.82	68	0.9
ZZ39240		<0.005	0.30	1.38	21	0.13	19.25	77	2.3



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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39241		0.11	0.011	0.16	1.07	20.8	<0.2	<10	340	1.17	0.30	1.05	0.21	13.90	11.2	22
ZZ39242		0.13	0.008	0.18	1.56	28.7	<0.2	<10	300	1.17	0.34	0.60	0.14	19.40	12.1	27
ZZ39243		0.16	0.004	0.13	1.56	33.3	<0.2	<10	320	1.15	0.33	0.64	0.23	18.50	11.7	26
ZZ39244		0.23	0.005	0.13	1.51	29.7	<0.2	<10	240	1.22	0.33	0.54	0.28	23.8	14.5	25
ZZ39245		0.17	0.008	0.21	1.59	19.0	<0.2	<10	240	1.10	0.35	0.55	0.20	18.65	12.1	27
ZZ39246		0.22	0.003	0.07	1.49	10.8	<0.2	<10	120	1.18	0.32	0.22	0.10	15.90	14.4	25
ZZ39247		0.26	0.008	0.14	1.72	14.8	<0.2	<10	210	1.16	0.39	0.44	0.27	17.80	13.3	32
ZZ39248		0.17	0.003	0.04	2.14	18.3	<0.2	<10	170	1.00	0.30	0.09	0.28	29.8	12.0	33
ZZ39249		0.20	0.002	0.03	1.92	31.7	<0.2	<10	140	0.77	0.30	0.09	0.13	25.2	11.7	26
ZZ39250		0.20	0.004	0.27	2.03	73.3	<0.2	<10	270	1.42	0.32	1.41	0.36	34.2	10.4	28
ZZ39251		0.17	0.008	0.18	1.28	48.0	<0.2	<10	150	0.87	0.24	3.04	0.24	20.9	10.0	21
ZZ39252		0.10	0.012	0.20	1.96	47.9	<0.2	<10	230	0.94	0.27	0.89	0.25	25.6	10.1	30
ZZ39253		0.11	0.005	0.15	1.31	29.4	<0.2	<10	180	0.97	0.22	2.26	0.36	20.3	12.6	19
ZZ39254		0.21	0.004	0.05	2.75	41.8	<0.2	<10	230	1.32	0.28	0.19	0.20	50.1	19.7	35
ZZ39255		0.12	0.013	0.08	0.90	18.7	<0.2	<10	260	1.15	0.21	0.89	0.13	57.5	10.7	30
ZZ39256		0.14	0.004	0.09	1.22	15.6	<0.2	<10	330	1.08	0.24	1.37	0.16	33.5	10.9	33
ZZ39257		0.22	0.005	0.11	1.14	27.2	<0.2	<10	300	1.08	0.28	0.86	0.21	28.5	15.2	29
ZZ39258		0.17	0.007	0.15	1.47	18.7	<0.2	<10	210	0.91	0.25	1.20	0.33	19.05	19.3	24
ZZ39259		0.18	0.005	0.15	1.98	11.8	<0.2	<10	300	0.82	0.26	0.39	0.08	26.9	11.2	32
ZZ39260		0.26	0.005	0.21	1.46	19.9	<0.2	<10	260	0.80	0.29	1.63	0.37	31.1	12.7	24
ZZ39261		0.09	0.008	0.19	1.22	35.4	<0.2	10	190	1.03	0.28	2.38	0.41	22.2	19.2	19
ZZ39262		0.19	0.007	0.14	1.77	16.9	<0.2	<10	250	0.96	0.29	0.66	0.24	22.3	16.1	29
ZZ39263		0.14	0.016	0.19	0.85	55.0	<0.2	10	190	0.76	0.29	1.31	0.82	11.95	14.7	15
ZZ39264		0.14	0.005	0.17	1.61	13.7	<0.2	<10	250	0.72	0.24	0.89	0.38	19.85	13.6	26
ZZ39265		0.20	0.007	0.15	1.79	10.0	<0.2	<10	180	1.41	0.29	0.83	0.23	18.40	18.8	26
ZZ39266		0.15	0.009	0.10	1.98	16.0	<0.2	<10	170	1.03	0.28	0.51	0.16	21.9	19.6	31
ZZ39267		0.13	0.004	0.05	1.98	10.8	<0.2	<10	160	0.70	0.26	0.26	0.23	20.5	15.8	27
ZZ39268		0.21	0.005	0.12	1.59	15.7	<0.2	<10	150	0.83	0.28	0.72	0.20	20.8	20.0	26
ZZ39269		0.18	0.017	0.17	1.93	16.0	<0.2	<10	200	1.04	0.26	0.86	0.29	22.0	20.6	30
ZZ39270		0.13	0.008	0.12	1.70	12.0	<0.2	<10	140	0.87	0.28	0.82	0.29	22.9	19.5	28
ZZ39271		0.10	0.006	0.10	1.70	11.3	<0.2	<10	160	0.85	0.26	1.19	0.25	19.45	17.0	25
ZZ39272		0.10	0.008	0.12	1.75	10.3	<0.2	10	190	0.78	0.22	1.20	0.34	22.7	18.0	28
ZZ39273		0.16	0.007	0.21	1.78	12.0	<0.2	<10	280	0.90	0.27	1.20	0.46	25.6	20.7	26
ZZ39274		0.11	0.005	0.11	1.55	75.2	<0.2	<10	170	0.89	0.22	1.54	0.16	15.30	15.9	23
ZZ39275		0.21	0.011	0.09	1.67	11.2	<0.2	<10	140	0.83	0.26	1.11	0.18	20.4	16.9	23
ZZ39276		0.18	0.006	0.08	1.81	13.6	<0.2	<10	110	0.94	0.31	0.76	0.18	26.7	20.1	26
ZZ39277		0.15	0.008	0.12	1.88	11.6	<0.2	<10	150	0.97	0.29	0.95	0.20	23.2	18.1	27
ZZ39278		0.15	0.009	0.09	1.74	13.1	<0.2	<10	170	0.76	0.31	0.51	0.19	27.3	17.5	25
ZZ39279		0.20	0.004	0.08	2.06	15.1	<0.2	<10	150	1.06	0.32	0.21	0.21	31.1	21.5	29
ZZ39280		0.21	0.003	0.14	1.76	11.0	<0.2	<10	150	0.89	0.29	0.70	0.24	28.2	17.3	27



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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39241		2.02	27.5	2.82	3.57	<0.05	0.08	0.19	0.030	0.11	6.2	12.6	0.27	641	0.86	0.01
ZZ39242		2.03	29.5	3.43	5.17	<0.05	0.10	0.26	0.036	0.10	9.1	22.3	0.41	626	0.92	0.01
ZZ39243		2.18	38.5	3.46	5.31	0.05	0.09	0.23	0.039	0.11	9.2	21.0	0.40	639	1.00	0.01
ZZ39244		1.90	44.8	3.97	4.87	0.06	0.08	0.24	0.041	0.09	10.7	25.8	0.58	652	0.96	0.01
ZZ39245		2.84	39.9	3.71	5.47	0.05	0.09	0.22	0.036	0.12	8.8	23.6	0.50	626	0.84	0.01
ZZ39246		1.93	25.7	3.75	5.73	<0.05	0.07	0.10	0.031	0.13	5.6	28.4	0.52	521	0.54	0.01
ZZ39247		4.41	35.0	3.83	6.63	0.05	0.09	0.18	0.037	0.13	8.3	31.6	0.57	943	0.53	0.01
ZZ39248		1.65	22.1	3.88	6.50	0.05	0.03	0.07	0.040	0.06	12.9	29.8	0.54	486	1.28	0.01
ZZ39249		1.77	25.3	3.67	6.18	<0.05	0.04	0.09	0.037	0.05	10.3	24.1	0.42	485	1.08	0.01
ZZ39250		2.14	22.0	4.27	5.39	0.06	0.06	0.44	0.035	0.08	14.9	20.9	0.96	1240	0.94	0.01
ZZ39251		0.83	26.3	3.13	4.05	<0.05	0.04	0.20	0.028	0.05	10.9	16.0	1.77	1120	0.82	0.01
ZZ39252		1.64	29.8	3.60	5.87	<0.05	0.06	0.29	0.034	0.06	12.0	20.6	0.57	345	0.79	0.01
ZZ39253		1.06	41.4	3.26	3.89	<0.05	0.06	0.17	0.032	0.08	9.9	16.9	0.59	488	0.91	0.01
ZZ39254		1.97	50.4	4.58	5.40	0.06	0.08	0.13	0.051	0.06	13.6	26.8	0.68	818	0.94	0.01
ZZ39255		6.48	29.2	2.77	3.85	0.09	0.08	0.09	0.035	0.11	30.6	17.7	0.82	197	0.51	0.01
ZZ39256		8.27	36.3	2.84	4.42	0.07	0.10	0.09	0.034	0.12	18.4	22.1	0.82	198	0.43	0.01
ZZ39257		1.69	35.6	3.76	3.69	0.06	0.05	0.16	0.039	0.07	11.5	17.9	0.46	378	0.71	0.01
ZZ39258		1.52	76.5	4.05	4.66	0.06	0.04	0.22	0.037	0.06	9.0	22.5	0.66	818	0.89	0.01
ZZ39259		1.66	32.6	3.50	6.05	0.05	0.03	0.15	0.032	0.06	12.4	24.3	0.69	378	0.93	0.01
ZZ39260		1.02	37.9	3.03	4.24	0.05	0.03	0.39	0.033	0.06	16.6	12.9	0.45	494	0.90	0.01
ZZ39261		1.64	83.1	3.75	3.44	0.07	0.06	0.70	0.046	0.11	9.9	14.3	0.37	679	1.10	0.01
ZZ39262		1.63	84.1	3.97	5.53	0.06	0.05	0.24	0.044	0.08	12.7	29.1	0.72	490	0.93	0.01
ZZ39263		1.18	74.9	3.90	2.68	<0.05	0.05	0.36	0.040	0.07	4.8	12.2	0.41	680	1.98	0.01
ZZ39264		2.24	59.4	3.44	5.02	<0.05	0.05	0.13	0.033	0.07	9.6	27.5	0.66	524	0.84	0.01
ZZ39265		4.24	95.2	4.14	5.60	0.06	0.07	0.11	0.042	0.11	7.1	32.2	0.94	383	0.97	0.01
ZZ39266		1.97	91.4	4.70	6.24	0.06	0.08	0.17	0.041	0.10	10.3	35.3	0.90	596	0.96	0.01
ZZ39267		2.27	59.7	4.19	7.54	0.05	0.03	0.09	0.048	0.07	8.2	27.7	0.51	450	0.83	0.01
ZZ39268		1.73	81.9	4.41	4.82	0.06	0.08	0.14	0.039	0.07	9.6	30.8	0.83	713	0.79	0.01
ZZ39269		3.54	110.5	4.48	6.25	0.06	0.08	0.15	0.044	0.10	10.8	37.4	0.95	732	0.80	0.01
ZZ39270		1.61	89.0	4.11	5.38	0.06	0.08	0.16	0.038	0.09	10.2	36.9	0.88	651	0.65	0.01
ZZ39271		1.09	73.6	3.91	4.90	0.05	0.08	0.15	0.031	0.10	8.7	32.7	0.80	619	0.58	0.01
ZZ39272		3.05	89.2	4.15	5.67	0.07	0.06	0.11	0.041	0.07	8.6	29.3	1.06	772	0.61	0.01
ZZ39273		3.61	101.0	4.42	5.56	0.06	0.07	0.14	0.050	0.08	10.0	29.0	0.90	1340	0.82	0.01
ZZ39274		2.97	86.2	3.73	4.43	0.05	0.06	0.16	0.035	0.08	7.6	26.8	0.87	501	0.63	0.01
ZZ39275		1.15	58.7	3.75	4.86	0.05	0.10	0.11	0.031	0.11	9.0	40.8	0.87	587	0.57	0.01
ZZ39276		1.22	66.1	4.25	5.28	0.06	0.10	0.13	0.034	0.11	11.5	42.4	0.88	748	0.63	0.01
ZZ39277		1.32	82.1	4.06	5.62	0.05	0.10	0.16	0.036	0.11	11.8	41.1	0.83	799	0.64	<0.01
ZZ39278		1.07	62.9	4.06	5.08	0.05	0.09	0.09	0.031	0.09	11.5	43.2	0.83	525	0.68	0.01
ZZ39279		1.29	81.2	4.86	6.32	0.06	0.12	0.16	0.043	0.11	14.1	49.5	0.97	882	0.64	0.01
ZZ39280		0.96	62.0	3.73	5.22	<0.05	0.06	0.10	0.034	0.08	12.7	36.8	0.81	553	0.70	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39241		0.52	23.0	690	19.4	13.5	0.001	0.08	0.43	3.8	1.2	0.9	35.6	<0.01	0.02	1.7
ZZ39242		0.53	23.5	690	20.5	15.1	<0.001	0.05	0.36	5.5	1.4	0.8	26.9	<0.01	0.03	2.5
ZZ39243		0.54	23.1	820	22.2	16.6	<0.001	0.06	0.36	6.0	0.9	0.8	29.0	<0.01	0.05	2.4
ZZ39244		0.35	30.1	560	23.6	9.7	<0.001	0.04	0.39	7.4	1.0	0.7	22.7	<0.01	0.05	3.0
ZZ39245		0.39	24.3	750	21.4	18.2	0.001	0.05	0.33	6.4	1.1	0.9	46.4	<0.01	0.03	2.4
ZZ39246		0.36	29.5	230	14.7	19.0	<0.001	0.02	0.22	5.9	0.5	0.9	20.1	<0.01	0.02	3.8
ZZ39247		0.44	32.9	430	17.8	21.0	<0.001	0.04	0.21	6.6	1.1	1.0	25.0	<0.01	0.02	3.8
ZZ39248		1.11	24.8	300	16.5	11.6	0.001	0.02	0.57	4.6	0.8	0.7	10.2	<0.01	0.05	4.3
ZZ39249		0.53	21.7	240	17.8	13.0	<0.001	0.02	0.30	4.2	0.3	0.8	10.5	<0.01	0.05	3.6
ZZ39250		0.58	34.7	1020	28.1	16.0	<0.001	0.04	0.38	5.9	0.8	0.7	20.9	<0.01	0.03	3.2
ZZ39251		0.41	22.8	890	18.7	6.9	<0.001	0.06	0.51	3.6	0.9	0.5	23.5	<0.01	0.04	1.0
ZZ39252		0.53	19.6	1510	18.2	10.0	<0.001	0.10	0.30	4.0	0.7	0.7	32.5	<0.01	0.03	1.2
ZZ39253		0.23	22.9	540	15.5	7.0	<0.001	0.07	0.43	4.8	1.0	0.4	112.5	<0.01	0.06	1.1
ZZ39254		0.52	38.5	450	20.5	10.6	<0.001	0.03	0.65	8.0	1.0	0.5	22.6	<0.01	0.08	4.7
ZZ39255		0.30	26.8	610	11.5	12.6	<0.001	0.05	0.21	8.1	2.5	0.5	36.7	<0.01	0.01	5.2
ZZ39256		0.44	27.2	810	12.4	15.5	<0.001	0.09	0.32	8.1	2.0	0.5	76.4	<0.01	0.03	2.8
ZZ39257		0.35	33.7	910	18.1	7.2	<0.001	0.04	0.33	7.4	1.2	0.5	38.1	<0.01	0.04	3.2
ZZ39258		0.25	31.8	710	15.5	6.9	<0.001	0.08	0.57	8.7	1.7	0.5	54.4	<0.01	0.08	1.1
ZZ39259		0.55	25.8	610	12.2	9.6	<0.001	0.04	0.40	6.7	0.8	0.6	27.1	<0.01	0.03	1.6
ZZ39260		0.59	29.9	650	20.1	7.1	<0.001	0.05	1.10	4.9	1.1	0.6	108.5	<0.01	0.04	1.2
ZZ39261		0.13	36.0	1330	23.3	7.6	0.001	0.08	0.94	9.3	1.7	0.5	183.0	<0.01	0.07	1.5
ZZ39262		0.36	33.1	540	14.0	8.0	<0.001	0.04	0.54	11.3	1.5	0.6	50.9	<0.01	0.09	2.2
ZZ39263		0.17	30.6	580	32.4	5.9	0.001	0.08	1.43	6.3	1.5	0.5	61.2	<0.01	0.09	1.1
ZZ39264		0.39	25.9	810	12.0	9.9	<0.001	0.07	0.48	7.0	2.1	0.5	36.0	<0.01	0.07	1.3
ZZ39265		0.33	32.2	620	14.3	9.1	<0.001	0.07	0.36	9.0	1.9	0.6	44.8	<0.01	0.14	2.1
ZZ39266		0.22	34.5	390	14.8	8.8	<0.001	0.04	0.44	11.3	1.5	0.5	20.9	<0.01	0.10	2.9
ZZ39267		0.38	19.3	560	13.4	10.8	<0.001	0.05	0.30	6.2	0.5	0.7	9.4	<0.01	0.12	1.7
ZZ39268		0.19	31.3	490	17.3	5.4	<0.001	0.05	0.58	9.4	1.1	0.4	28.3	<0.01	0.07	2.5
ZZ39269		0.23	35.7	670	14.6	8.2	<0.001	0.05	0.52	13.2	1.7	0.5	35.7	<0.01	0.08	2.5
ZZ39270		0.18	35.2	580	16.1	6.2	<0.001	0.05	0.45	11.2	1.2	0.4	39.0	<0.01	0.09	2.7
ZZ39271		0.16	31.0	570	15.4	6.7	<0.001	0.07	0.46	7.4	1.1	0.4	48.2	<0.01	0.07	1.7
ZZ39272		0.19	31.0	600	12.7	7.3	<0.001	0.08	0.38	11.6	1.4	0.4	55.7	<0.01	0.06	1.5
ZZ39273		0.15	35.1	710	19.9	8.8	<0.001	0.07	0.48	12.6	3.1	0.4	42.8	<0.01	0.06	1.5
ZZ39274		0.16	29.8	630	13.3	8.1	0.001	0.10	0.47	9.3	2.3	0.3	69.8	<0.01	0.05	1.4
ZZ39275		0.12	30.1	510	16.6	6.6	<0.001	0.06	0.47	6.1	2.7	0.3	45.9	<0.01	0.05	2.4
ZZ39276		0.12	36.3	380	19.1	6.3	<0.001	0.03	0.55	7.4	0.9	0.3	40.6	<0.01	0.06	3.8
ZZ39277		0.19	36.5	530	17.3	7.9	<0.001	0.04	0.54	8.6	1.1	0.4	50.7	<0.01	0.07	3.3
ZZ39278		0.15	33.8	480	18.3	5.6	<0.001	0.02	0.51	6.9	1.5	0.3	29.7	<0.01	0.04	4.2
ZZ39279		0.08	42.2	330	20.2	6.8	0.001	0.01	0.60	10.2	0.9	0.4	19.1	<0.01	0.08	5.3
ZZ39280		0.35	33.3	580	17.1	6.6	<0.001	0.03	0.53	7.3	1.7	0.4	39.4	<0.01	0.09	3.2

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Project: ATACRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39241		0.009	0.24	1.40	23	0.21	11.70	80	1.9
ZZ39242		0.010	0.29	1.62	36	0.18	10.70	77	2.3
ZZ39243		0.008	0.27	1.70	37	0.20	11.75	100	2.2
ZZ39244		0.009	0.25	1.11	37	0.11	13.45	89	2.2
ZZ39245		0.007	0.19	1.60	37	0.13	13.65	100	2.0
ZZ39246		0.011	0.15	0.68	25	0.05	8.20	83	1.8
ZZ39247		0.010	0.21	1.29	32	0.08	13.80	115	2.1
ZZ39248		0.028	0.24	0.77	61	0.25	4.03	84	1.6
ZZ39249		0.011	0.27	0.72	53	0.14	3.63	61	1.7
ZZ39250		0.011	0.57	1.95	39	0.17	13.40	152	1.5
ZZ39251		0.015	0.22	1.71	35	0.14	9.37	67	1.0
ZZ39252		0.012	0.36	4.17	54	0.22	9.49	80	1.6
ZZ39253		<0.005	0.17	4.89	35	0.06	10.90	57	1.6
ZZ39254		0.010	0.18	1.20	48	0.11	10.15	69	2.2
ZZ39255		0.009	0.18	0.98	27	0.05	14.80	90	2.7
ZZ39256		0.011	0.18	3.21	29	0.06	15.00	97	2.8
ZZ39257		0.009	0.09	1.81	39	0.24	14.95	108	1.6
ZZ39258		0.010	0.11	1.72	45	0.07	15.10	78	1.1
ZZ39259		0.017	0.13	1.11	56	0.18	9.18	67	0.8
ZZ39260		0.017	0.12	0.87	41	0.17	20.0	75	0.9
ZZ39261		<0.005	0.22	1.68	36	<0.05	26.2	85	1.5
ZZ39262		0.012	0.11	0.90	47	0.08	16.40	79	1.4
ZZ39263		0.005	0.32	0.59	31	0.05	11.35	118	1.4
ZZ39264		0.013	0.11	0.92	43	0.09	11.70	85	1.3
ZZ39265		0.010	0.10	0.53	45	0.12	13.25	74	1.8
ZZ39266		0.007	0.10	0.51	54	0.05	11.40	75	2.5
ZZ39267		0.008	0.15	0.34	74	0.08	5.33	49	0.8
ZZ39268		0.008	0.09	0.55	44	0.14	11.30	79	2.1
ZZ39269		0.009	0.10	0.61	52	<0.05	15.85	84	2.3
ZZ39270		0.006	0.09	0.46	43	<0.05	13.80	83	2.7
ZZ39271		0.005	0.08	0.68	39	0.05	10.90	76	2.3
ZZ39272		0.008	0.08	0.49	53	0.05	11.55	89	1.6
ZZ39273		0.006	0.12	0.70	49	<0.05	17.35	91	1.8
ZZ39274		0.005	0.12	2.82	39	<0.05	12.40	68	2.1
ZZ39275		<0.005	0.07	0.61	33	<0.05	9.57	80	3.1
ZZ39276		0.005	0.07	0.62	36	<0.05	9.86	81	3.8
ZZ39277		0.005	0.09	1.37	39	<0.05	13.25	79	3.4
ZZ39278		0.006	0.10	0.64	34	<0.05	8.44	81	3.5
ZZ39279		0.005	0.08	0.55	42	<0.05	12.00	88	5.4
ZZ39280		0.012	0.07	1.02	39	0.07	11.15	78	1.9



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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39281		0.14	0.009	0.09	1.76	11.1	<0.2	<10	100	0.78	0.28	0.38	0.13	25.9	16.2	26
ZZ39282		0.20	0.004	0.10	1.83	13.1	<0.2	<10	160	0.93	0.28	0.74	0.32	24.9	19.2	27
ZZ39283		0.17	0.006	0.13	1.87	11.6	<0.2	<10	140	0.85	0.31	0.78	0.17	22.4	13.3	27
ZZ39284		0.14	0.011	0.15	1.72	9.9	<0.2	<10	180	0.97	0.27	1.44	0.35	21.1	14.3	24
ZZ39285		0.13	0.003	0.09	1.46	52.2	<0.2	<10	170	0.67	0.27	0.48	0.22	24.5	12.8	24
ZZ39286		0.17	0.002	0.03	1.86	14.0	<0.2	<10	150	0.64	0.28	0.26	0.20	20.3	12.7	27
ZZ39287		0.13	0.012	0.25	1.83	15.6	<0.2	<10	220	1.32	0.29	0.49	0.70	34.1	18.3	27
ZZ39288		0.18	0.003	0.04	2.01	13.0	<0.2	<10	140	0.87	0.28	0.09	0.17	34.2	18.5	27
ZZ39289		0.16	0.004	0.12	1.64	12.1	<0.2	<10	160	0.82	0.29	0.61	0.15	28.2	14.8	24
ZZ39290		0.19	0.003	0.08	2.06	13.5	<0.2	<10	120	1.04	0.32	0.27	0.16	36.1	23.3	29

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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39281		0.90	60.3	4.08	4.92	0.05	0.09	0.11	0.029	0.08	11.7	35.8	0.85	472	0.56	0.01
ZZ39282		1.16	62.4	4.19	5.64	0.06	0.09	0.10	0.038	0.10	11.6	41.9	0.87	1080	0.64	<0.01
ZZ39283		1.25	56.4	3.80	5.51	0.06	0.10	0.09	0.034	0.10	11.6	42.9	0.85	393	0.62	0.01
ZZ39284		1.18	63.3	3.29	4.94	<0.05	0.09	0.13	0.034	0.10	10.3	36.8	0.76	715	0.68	0.01
ZZ39285		1.54	53.3	3.24	5.13	<0.05	0.04	0.09	0.029	0.07	11.8	24.2	0.59	504	0.91	0.01
ZZ39286		1.45	31.4	3.60	5.59	<0.05	0.06	0.03	0.035	0.05	9.3	25.9	0.48	346	1.40	0.01
ZZ39287		1.40	85.5	5.04	5.35	0.05	0.05	0.11	0.057	0.05	10.9	25.3	0.57	1310	1.05	0.01
ZZ39288		0.75	57.4	4.11	4.87	0.05	0.07	0.06	0.035	0.06	12.7	40.0	0.76	760	0.63	<0.01
ZZ39289		0.69	41.9	3.73	4.83	<0.05	0.07	0.08	0.030	0.07	12.0	34.1	0.71	646	0.63	0.01
ZZ39290		1.51	74.8	4.87	6.14	0.07	0.05	0.09	0.037	0.11	15.1	46.4	0.99	814	0.75	0.01

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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39281		0.17	31.5	400	15.9	5.2	<0.001	0.02	0.47	7.0	0.9	0.3	25.2	<0.01	0.06	3.8
ZZ39282		0.15	37.3	530	19.6	6.7	0.001	0.04	0.51	7.6	2.3	0.4	44.3	<0.01	0.05	3.2
ZZ39283		0.22	31.2	580	16.1	7.4	0.001	0.04	0.54	7.2	1.7	0.4	66.4	<0.01	0.05	2.9
ZZ39284		0.25	31.0	710	14.5	7.9	<0.001	0.08	0.58	6.3	2.8	0.5	112.0	<0.01	0.07	1.9
ZZ39285		0.54	25.0	290	13.7	9.0	<0.001	0.02	0.45	6.9	1.2	0.5	34.4	<0.01	0.04	3.0
ZZ39286		0.80	26.7	230	16.5	10.8	<0.001	0.01	0.60	3.6	1.4	0.6	24.8	<0.01	0.05	3.3
ZZ39287		0.25	32.1	1220	21.3	5.9	<0.001	0.06	0.41	8.9	1.9	0.6	41.3	<0.01	0.07	1.8
ZZ39288		0.14	34.8	350	19.8	6.4	<0.001	0.01	0.49	6.7	1.1	0.3	10.9	<0.01	0.05	5.2
ZZ39289		0.29	29.9	570	16.7	5.9	<0.001	0.02	0.52	6.1	1.0	0.4	37.2	<0.01	0.06	3.5
ZZ39290		0.07	40.7	340	21.3	6.7	<0.001	0.02	0.53	7.7	0.5	0.3	21.5	<0.01	0.05	4.8

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**CERTIFICATE OF ANALYSIS WH12200335**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39281		0.008	0.06	0.61	39	<0.05	8.89	77	2.8
ZZ39282		0.005	0.07	0.82	39	<0.05	11.30	86	3.1
ZZ39283		0.007	0.07	0.85	36	0.05	11.65	88	2.8
ZZ39284		0.007	0.08	1.61	32	0.05	12.15	88	3.0
ZZ39285		0.023	0.18	2.32	45	0.11	9.29	62	1.3
ZZ39286		0.021	0.14	2.70	53	0.18	3.00	74	2.0
ZZ39287		0.011	0.08	3.03	45	0.06	15.95	59	1.2
ZZ39288		0.005	0.06	0.67	36	0.05	8.00	69	3.5
ZZ39289		0.011	0.06	0.88	36	0.06	8.73	72	2.1
ZZ39290		<0.005	0.08	0.56	43	<0.05	8.17	89	2.1

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**CERTIFICATE OF ANALYSIS WH12200335**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12203892**

Project: ATAC- Regional- Area B  
 P.O. No.: NR2  
 This report is for 36 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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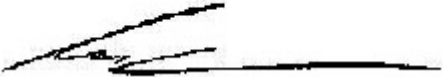
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85% < 75 um
PUL- QC	Pulverizing QC Test

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16- SEP- 2012  
 Account: RCM

Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12203892**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L843881		0.38	<0.01	0.02	0.15	59	80	0.10	0.01	36.1	0.34	1.68	0.8	<1	0.19	3.6
L843882		0.12	<0.01	0.03	0.12	39	100	0.12	0.01	36.6	0.12	2.01	0.8	<1	0.23	3.4
L843883		0.34	0.03	0.19	0.96	1040	170	0.24	0.03	33.5	0.78	11.85	2.4	13	1.24	5.2
L843884		0.06	<0.01	0.15	0.41	909	70	0.18	0.03	34.4	0.64	6.84	1.5	7	0.53	3.8
L843885		0.22	<0.01	0.03	0.25	120	60	0.13	0.01	35.7	0.91	3.10	1.0	<1	0.34	3.5
L843886		0.39	<0.01	0.03	0.11	42	40	0.11	0.01	36.0	0.08	1.99	0.7	<1	0.21	1.9
L843887		0.18	0.02	0.24	2.41	1180	290	0.78	0.08	29.0	1.89	19.45	5.1	26	3.02	23.2
L843888		0.32	<0.01	0.01	0.24	14	130	0.09	0.01	35.5	0.03	6.77	0.9	<1	0.30	1.9
L843889		0.34	<0.01	<0.01	0.25	108	120	0.21	0.02	35.7	0.03	4.52	1.0	<1	0.27	1.8
L843890		0.11	<0.01	0.12	7.29	115	1360	1.86	0.30	10.35	0.40	63.9	13.7	83	9.91	15.9
L843891		0.23	<0.01	0.13	0.08	<5	50	<0.05	0.05	36.6	0.08	11.35	0.6	<1	0.14	2.4
L843892		0.14	0.05	1.08	1.20	459	560	0.56	0.05	30.0	4.30	15.00	4.7	21	1.52	16.8
L843893		0.49	0.08	2.64	0.33	203	210	0.19	0.02	34.6	7.90	8.03	2.1	5	0.33	3.4
L843894		0.21	<0.01	0.08	0.08	14	20	<0.05	0.01	23.7	0.38	1.17	1.2	<1	0.12	1.4
L843895		0.41	0.09	2.02	0.41	170	260	0.22	0.02	35.4	6.56	9.51	2.4	7	0.39	3.5
L843896		0.04	0.09	2.31	0.50	281	300	0.26	0.02	33.3	6.07	10.70	4.0	8	0.45	14.4
L843897		0.29	0.03	0.70	0.28	147	100	0.22	0.01	35.0	4.04	5.73	3.6	4	0.28	3.5
L843898		0.29	0.05	1.02	0.37	209	150	0.24	0.02	33.9	4.46	6.78	6.4	6	0.33	3.8
L843899		0.22	0.02	0.52	0.22	246	70	0.19	0.01	35.1	1.84	5.86	2.2	2	0.23	2.0
L843900		0.12	0.04	0.87	0.27	93	120	0.20	0.01	35.1	3.39	7.05	2.1	4	0.27	2.8
L843951		0.11	0.03	0.19	0.12	97	70	0.13	0.01	32.9	1.50	4.30	2.2	<1	0.14	2.5
L843952		0.17	0.01	0.21	0.10	95	40	0.13	0.01	25.4	7.72	1.53	1.4	<1	0.14	2.6
L843953		0.18	<0.01	0.10	0.11	24	30	0.07	0.01	23.1	0.48	1.61	1.3	<1	0.14	1.4
L843954		0.08	0.02	0.26	0.80	165	210	0.30	0.03	34.0	2.31	13.30	4.2	20	1.30	5.8
L843955		0.27	<0.01	0.03	0.06	51	20	0.19	<0.01	36.9	0.41	1.11	0.9	<1	0.11	1.1
L843956		0.41	0.05	0.17	0.17	285	80	0.23	0.01	35.6	1.67	3.65	1.6	<1	0.23	1.9
L843957		0.31	0.01	0.08	0.11	51	40	0.24	<0.01	35.7	1.19	1.36	0.8	<1	0.19	2.3
L843958		0.16	0.04	0.29	0.95	254	170	0.47	0.04	25.5	1.06	11.75	4.5	9	1.73	4.4
L843959		0.16	<0.01	0.42	0.19	400	110	0.25	0.01	35.4	5.29	4.26	1.0	<1	0.23	1.8
L843960		0.32	0.02	1.10	0.04	92	20	0.13	<0.01	27.7	1.93	0.74	1.1	<1	0.05	1.4
L843961		0.38	<0.01	0.19	0.28	233	40	0.22	0.01	36.6	0.51	3.82	1.3	<1	0.28	1.9
L843962		0.16	0.02	0.03	0.20	145	120	0.15	0.01	20.0	0.18	3.42	1.2	<1	0.19	2.0
L843963		0.09	<0.01	0.06	3.09	173.5	960	0.68	0.08	1.05	1.05	30.0	12.6	31	2.17	177.0
L843964		0.06	<0.01	0.11	0.68	243	150	0.39	0.04	18.65	0.32	17.10	2.2	4	0.84	8.7
L843965		0.13	<0.01	0.09	0.56	353	160	0.34	0.03	18.85	0.39	11.85	1.8	3	0.66	10.5
L843966		0.20	<0.01	0.15	7.64	162.5	150	1.38	0.27	0.34	0.74	53.1	38.3	90	4.20	173.0

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 Plus Appendix Pages  
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 Account: RCM

Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12203892**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L843881		0.14	0.40	<0.05	0.1	0.60	<0.005	0.05	1.1	0.8	0.19	36	2.31	0.01	0.6	1.9
L843882		0.10	0.37	<0.05	<0.1	0.18	<0.005	0.06	1.2	0.7	0.24	63	1.92	0.02	0.5	0.7
L843883		1.19	2.54	0.06	0.4	9.94	0.014	0.41	6.5	3.2	0.25	240	10.05	0.01	2.0	14.2
L843884		0.94	1.12	0.05	0.2	13.6	0.006	0.17	4.0	1.5	0.12	214	4.52	0.01	1.0	7.1
L843885		0.23	0.69	<0.05	0.1	1.32	<0.005	0.09	1.9	1.0	0.16	84	3.17	<0.01	0.7	4.9
L843886		0.09	0.35	0.05	0.1	0.39	<0.005	0.04	1.1	0.7	0.18	97	1.72	<0.01	0.5	<0.2
L843887		1.86	5.65	0.08	0.9	10.7	0.022	0.82	11.6	8.4	0.29	108	22.2	0.02	4.4	55.1
L843888		0.12	0.74	0.05	0.1	0.13	0.005	0.12	3.5	1.6	0.25	42	0.40	<0.01	0.8	0.7
L843889		0.22	0.75	0.06	0.1	0.09	0.006	0.12	2.3	1.3	0.23	137	0.41	<0.01	0.7	0.4
L843890		3.28	20.6	0.13	2.3	0.25	0.066	2.94	31.2	49.6	0.86	200	2.86	0.11	13.1	45.4
L843891		0.04	0.28	0.08	<0.1	0.02	0.024	0.03	5.3	0.8	0.18	34	0.15	0.01	0.4	<0.2
L843892		1.65	3.14	0.09	0.5	8.57	0.014	0.35	10.1	4.3	0.57	486	12.55	0.03	3.1	33.7
L843893		0.29	1.00	0.06	0.1	12.3	0.007	0.13	6.2	1.2	0.08	509	16.10	<0.01	0.9	10.1
L843894		0.11	0.30	0.15	<0.1	0.46	<0.005	0.03	0.7	0.7	10.70	44	0.86	0.02	0.3	2.1
L843895		0.38	1.17	0.08	0.2	9.19	0.008	0.15	7.4	1.1	0.10	533	16.60	<0.01	1.1	9.8
L843896		1.78	1.36	0.08	0.2	10.8	0.009	0.18	8.1	1.3	0.11	579	16.70	<0.01	1.3	19.2
L843897		1.27	0.72	0.06	0.1	4.95	<0.005	0.09	4.3	0.7	0.07	484	11.10	<0.01	0.8	15.6
L843898		1.24	1.01	0.07	0.2	6.31	0.005	0.13	5.2	0.9	0.28	487	11.95	<0.01	1.0	23.8
L843899		0.56	0.60	0.05	0.1	10.2	<0.005	0.08	4.3	0.5	0.07	425	9.11	<0.01	0.7	13.3
L843900		0.58	0.75	0.05	0.1	3.60	<0.005	0.10	5.2	0.6	0.08	490	8.61	<0.01	0.8	9.7
L843951		0.76	0.45	0.05	0.1	3.95	<0.005	0.04	2.9	0.4	0.08	775	4.69	<0.01	0.5	9.9
L843952		0.27	0.35	0.07	0.1	1.33	<0.005	0.03	1.0	0.6	7.58	152	1.52	0.01	0.4	7.9
L843953		0.13	0.39	0.17	0.1	0.65	<0.005	0.03	1.0	0.7	10.35	48	0.98	0.03	0.4	3.6
L843954		0.73	1.94	0.11	0.3	6.26	0.009	0.32	11.3	2.2	0.19	277	14.90	0.01	1.9	27.9
L843955		0.08	0.27	0.10	<0.1	0.47	<0.005	0.02	0.8	0.2	0.08	386	0.67	<0.01	0.4	5.6
L843956		0.31	0.53	0.11	0.1	5.15	<0.005	0.05	2.9	0.5	0.11	328	3.31	<0.01	0.7	14.7
L843957		0.08	0.37	0.12	<0.1	1.38	<0.005	0.04	0.9	0.3	0.09	306	0.67	<0.01	0.5	4.0
L843958		0.79	2.22	0.10	0.4	3.31	0.009	0.21	7.2	3.8	0.19	508	2.59	0.05	2.0	28.0
L843959		0.38	0.61	0.06	0.1	7.08	<0.005	0.06	2.6	0.5	0.12	515	0.69	<0.01	0.8	7.0
L843960		0.07	0.33	0.16	<0.1	50.2	<0.005	0.01	<0.5	0.4	7.22	299	0.37	0.01	0.3	2.9
L843961		0.28	0.75	0.11	0.1	9.22	<0.005	0.10	2.4	0.8	0.13	428	0.51	<0.01	0.9	5.2
L843962		0.28	0.73	0.19	0.1	2.04	<0.005	0.08	2.5	0.9	12.15	519	0.18	0.01	0.5	3.2
L843963		3.17	10.85	0.11	1.1	0.92	0.081	0.45	6.4	25.4	0.51	2570	0.80	0.09	4.7	19.4
L843964		0.71	2.48	0.10	0.4	2.92	0.006	0.32	12.1	3.4	11.20	1700	0.38	0.02	1.8	5.2
L843965		0.83	2.08	0.08	0.3	2.12	0.006	0.22	8.0	3.3	11.30	1820	0.26	0.02	1.3	4.0
L843966		7.77	24.2	0.25	3.6	0.17	0.116	1.55	23.3	74.9	2.60	1200	0.57	0.88	16.3	61.8

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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12203892**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L843881		130	11.6	2.4	0.002	<0.01	1.06	0.4	2	<0.2	127.5	<0.05	<0.05	0.3	0.009	0.23
L843882		50	3.2	2.6	0.002	<0.01	0.27	1.0	1	<0.2	142.5	<0.05	<0.05	0.3	0.006	0.14
L843883		1530	31.6	16.6	0.005	0.36	2.91	5.1	2	0.4	68.1	0.11	<0.05	1.9	0.050	4.85
L843884		570	37.2	7.2	0.002	0.04	2.97	4.8	2	0.2	42.8	<0.05	<0.05	1.0	0.019	2.91
L843885		520	7.9	4.2	0.002	<0.01	1.53	1.7	1	<0.2	113.5	<0.05	<0.05	0.4	0.012	0.57
L843886		90	3.5	2.1	0.002	<0.01	0.38	2.6	1	<0.2	123.0	<0.05	<0.05	0.2	0.006	0.21
L843887		2170	57.5	38.1	0.003	0.02	12.60	3.7	2	0.8	170.5	0.24	<0.05	3.3	0.108	5.34
L843888		50	1.2	5.4	<0.002	<0.01	0.25	0.8	1	<0.2	306	<0.05	<0.05	0.4	0.010	0.12
L843889		80	2.0	5.2	<0.002	<0.01	0.32	1.6	1	0.2	185.5	<0.05	<0.05	0.5	0.012	0.18
L843890		640	23.0	145.0	<0.002	0.07	3.37	12.0	2	2.6	154.0	0.82	<0.05	10.5	0.344	2.32
L843891		20	10.0	1.7	<0.002	<0.01	5.38	0.4	1	<0.2	726	<0.05	<0.05	0.4	<0.005	0.04
L843892		1860	164.0	18.5	0.002	0.01	5.98	3.9	3	0.4	126.5	0.15	<0.05	1.9	0.067	3.03
L843893		1790	401	5.7	0.005	0.05	11.35	3.2	2	0.2	103.5	<0.05	<0.05	0.5	0.017	0.78
L843894		110	13.9	1.3	<0.002	<0.01	0.49	0.2	1	<0.2	153.0	<0.05	<0.05	<0.2	<0.005	0.11
L843895		2350	360	6.4	0.003	0.03	15.30	3.2	2	0.2	104.0	<0.05	<0.05	0.7	0.020	0.82
L843896		2590	204	7.5	0.002	0.01	19.20	3.4	3	0.2	105.5	0.06	<0.05	0.8	0.025	0.68
L843897		1220	127.0	3.9	0.004	0.01	5.49	4.3	2	<0.2	46.6	<0.05	<0.05	0.4	0.013	0.94
L843898		1740	166.5	5.3	0.003	0.01	4.59	3.2	2	0.2	76.0	<0.05	<0.05	0.5	0.018	0.55
L843899		1160	73.9	3.4	0.003	0.01	5.05	4.5	2	<0.2	55.0	<0.05	<0.05	0.3	0.010	1.95
L843900		1510	132.0	4.1	0.003	0.01	5.05	5.1	2	<0.2	69.2	<0.05	<0.05	0.4	0.013	0.32
L843951		560	37.8	1.9	<0.002	<0.01	1.84	2.2	2	<0.2	66.9	<0.05	<0.05	0.2	0.006	0.15
L843952		160	105.0	1.5	<0.002	<0.01	1.41	0.5	1	<0.2	97.4	<0.05	<0.05	0.2	0.006	0.62
L843953		140	17.3	1.6	<0.002	<0.01	0.60	0.3	1	<0.2	145.0	<0.05	<0.05	0.2	0.007	0.19
L843954		4790	41.6	13.3	0.002	<0.01	1.77	5.0	2	0.3	128.0	0.09	<0.05	1.2	0.040	0.81
L843955		110	7.2	0.9	<0.002	<0.01	0.54	0.9	2	<0.2	12.8	<0.05	<0.05	<0.2	<0.005	0.09
L843956		420	34.5	2.2	<0.002	<0.01	2.40	2.5	3	<0.2	34.2	<0.05	<0.05	0.3	0.009	0.33
L843957		320	12.3	1.5	<0.002	<0.01	0.52	1.7	1	<0.2	55.1	<0.05	<0.05	0.2	0.005	0.09
L843958		450	51.8	13.2	<0.002	0.01	2.67	3.4	2	0.3	35.1	0.11	<0.05	1.6	0.052	1.48
L843959		90	125.5	2.7	<0.002	0.02	1.83	2.9	2	<0.2	61.1	<0.05	<0.05	0.3	0.009	0.48
L843960		50	340	0.6	<0.002	<0.01	1.80	0.2	1	<0.2	76.4	<0.05	<0.05	<0.2	<0.005	0.12
L843961		110	26.2	3.9	<0.002	0.01	1.06	1.8	1	<0.2	14.2	<0.05	<0.05	0.5	0.016	0.54
L843962		190	10.5	3.0	<0.002	<0.01	0.64	0.6	1	<0.2	100.5	<0.05	<0.05	0.3	0.007	0.61
L843963		370	17.5	30.8	<0.002	0.03	0.97	13.0	2	0.8	56.7	0.31	0.07	2.5	0.240	0.95
L843964		610	24.7	13.1	<0.002	<0.01	0.52	1.9	1	0.2	125.5	0.11	<0.05	1.8	0.036	0.85
L843965		440	17.5	9.9	<0.002	<0.01	0.41	1.6	1	0.2	106.0	0.08	<0.05	1.2	0.029	1.00
L843966		730	13.2	86.0	<0.002	0.02	0.39	34.0	3	2.2	38.4	1.03	0.30	6.3	0.835	0.82





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Project: ATAC- Regional- Area B

**CERTIFICATE OF ANALYSIS WH12203892**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L843881		3.2	6	0.1	2.5	24	2.8
L843882		3.2	8	0.1	3.2	11	2.4
L843883		17.5	44	0.8	13.6	85	13.5
L843884		8.3	26	0.4	8.9	81	6.3
L843885		7.3	14	0.2	6.4	33	4.0
L843886		4.6	12	0.2	6.4	7	2.6
L843887		15.8	57	1.6	21.3	268	32.4
L843888		0.7	2	0.1	2.9	4	3.1
L843889		2.0	8	0.3	6.3	3	3.9
L843890		3.2	76	2.4	13.8	108	77.1
L843891		0.1	2	0.1	3.0	3	1.1
L843892		20.8	73	1.1	17.7	589	21.2
L843893		24.5	30	1.0	16.7	802	5.7
L843894		1.5	3	0.1	1.2	30	1.4
L843895		28.7	36	1.2	18.2	456	6.8
L843896		28.1	44	1.3	18.7	620	8.7
L843897		19.3	33	0.5	17.5	501	4.4
L843898		22.5	35	0.8	15.1	582	5.8
L843899		19.3	30	0.6	14.9	261	3.6
L843900		22.7	34	0.7	17.1	418	4.2
L843951		11.3	22	0.4	12.8	185	2.2
L843952		4.3	8	0.2	2.7	286	2.4
L843953		1.8	4	0.1	1.2	40	2.0
L843954		52.5	75	1.0	25.6	267	10.8
L843955		1.7	8	0.1	5.4	23	1.7
L843956		8.2	14	0.4	6.6	101	3.3
L843957		6.4	10	0.3	5.4	25	1.8
L843958		4.2	32	0.6	9.8	169	14.5
L843959		4.6	11	0.4	6.3	186	3.5
L843960		2.1	3	0.1	1.5	61	1.0
L843961		8.0	18	0.4	6.5	78	4.4
L843962		1.1	3	0.4	2.3	39	2.9
L843963		0.8	105	0.5	7.4	82	40.3
L843964		2.2	8	1.7	10.0	29	13.2
L843965		2.2	8	0.9	7.0	49	10.3
L843966		1.6	262	1.4	27.4	187	134.5



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**CERTIFICATE OF ANALYSIS WH12203892**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12204561**

Project: ATAC- Regional (Area B)  
 P.O. No.: Soil 36  
 This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ32071		0.22	0.003	1.10	0.76	21.1	<0.2	<10	460	0.78	0.15	2.91	7.96	18.15	6.8	30
ZZ32072		0.14	0.003	0.90	0.64	15.1	<0.2	<10	330	0.60	0.12	2.83	6.60	16.20	6.5	24
ZZ32073		0.18	0.003	1.40	0.80	16.4	<0.2	<10	390	0.73	0.18	2.01	5.12	18.35	7.2	36
ZZ32074		0.18	0.003	1.71	0.56	14.2	<0.2	<10	260	0.58	0.12	2.37	7.34	12.00	4.5	31
ZZ32075		0.22	0.004	2.56	0.50	39	<0.2	10	350	0.85	0.10	12.20	24.5	21.3	3.8	41
ZZ32076		0.12	0.004	0.89	0.49	25.2	<0.2	<10	270	0.68	0.11	2.16	11.70	8.80	3.4	25
ZZ32077		0.14	0.001	0.23	1.80	19.7	<0.2	<10	320	0.91	0.20	0.17	2.80	17.75	9.2	40
ZZ32078		0.18	<0.001	0.19	1.42	16.6	<0.2	<10	210	0.71	0.22	0.17	1.38	9.71	9.7	25
ZZ32079		0.14	0.003	1.17	1.21	18.8	<0.2	<10	410	0.97	0.18	2.87	3.83	22.7	7.6	37
ZZ32080		0.18	0.002	0.38	1.46	16.9	<0.2	<10	120	0.50	0.27	0.11	1.50	23.3	7.6	27
ZZ32081		0.18	<0.001	1.10	0.86	27.9	<0.2	<10	350	0.92	0.17	4.67	5.84	18.45	7.8	31
ZZ32082		0.20	0.004	3.02	0.79	24.5	<0.2	10	390	0.94	0.11	3.57	16.85	15.65	3.9	61
ZZ32083		0.14	<0.001	1.28	0.61	11.9	<0.2	<10	360	0.69	0.10	4.28	11.45	9.01	5.7	25
ZZ32084		0.14	<0.001	1.65	0.41	9.0	<0.2	10	680	0.67	0.06	5.23	50.8	9.05	2.6	40
ZZ32085		0.20	0.003	1.86	0.60	19.8	<0.2	<10	280	0.75	0.12	3.45	20.2	13.50	4.9	51
ZZ32086		0.16	0.005	1.27	0.51	11.9	<0.2	<10	300	0.61	0.10	3.78	16.65	7.64	4.5	31
ZZ32087		0.12	0.001	1.17	0.50	8.6	<0.2	<10	300	0.55	0.09	4.22	11.10	6.79	4.4	30
ZZ32088		0.16	0.005	2.32	0.67	27.5	<0.2	<10	400	0.81	0.15	2.53	7.90	13.80	5.7	44
ZZ32089		0.18	0.003	2.31	0.56	31.0	<0.2	10	720	0.90	0.14	5.85	12.90	19.00	3.8	38
ZZ32090		0.16	0.002	0.83	0.57	8.7	<0.2	10	310	0.49	0.12	3.33	4.45	7.22	5.8	16
ZZ32091		0.12	0.007	1.11	0.53	12.4	<0.2	10	260	0.61	0.14	3.21	5.31	9.18	6.4	20
ZZ32092		0.18	0.002	1.31	0.50	25.6	<0.2	<10	360	0.65	0.16	2.94	5.92	12.40	9.6	23
ZZ32093		0.12	<0.001	1.61	0.40	14.8	<0.2	<10	460	0.54	0.11	3.78	6.68	9.81	4.8	23
ZZ32094		0.12	0.018	1.26	0.32	13.3	<0.2	<10	490	0.46	0.07	9.71	8.06	9.79	2.5	21
ZZ32095		0.12	0.023	0.26	0.60	6.8	<0.2	<10	420	0.81	0.10	5.35	8.28	16.85	2.6	28
ZZ32096		0.12	0.003	1.86	0.70	18.7	<0.2	<10	430	0.83	0.14	5.39	5.82	14.25	5.7	33
ZZ32097		0.10	0.001	0.16	1.34	17.3	<0.2	<10	410	0.96	0.23	0.63	3.83	25.1	8.3	37
ZZ32098		0.12	0.001	0.70	0.82	8.1	<0.2	<10	500	0.71	0.13	4.88	8.80	11.35	5.4	19
ZZ32099		0.12	0.007	0.54	0.58	7.1	<0.2	<10	370	0.52	0.10	4.10	15.85	12.50	3.4	15
ZZ32100		0.16	0.002	1.39	1.53	23.3	<0.2	<10	600	1.18	0.24	1.09	4.18	21.5	9.3	47
ZZ32101		0.16	0.001	0.08	1.06	14.5	<0.2	<10	290	0.40	0.30	0.40	1.95	13.50	8.5	19
ZZ32102		0.12	0.004	1.44	0.62	23.2	<0.2	<10	280	0.86	0.13	4.11	14.00	18.25	6.5	31
ZZ32103		0.16	0.002	1.24	0.67	38.3	<0.2	<10	400	0.95	0.14	3.72	17.15	21.9	5.0	31
ZZ32104		0.18	0.003	1.66	1.10	49.5	<0.2	<10	530	1.03	0.20	2.82	16.45	24.7	5.7	39
ZZ32105		0.24	0.004	3.08	1.08	39.7	<0.2	<10	440	1.31	0.19	1.94	16.20	33.2	9.8	48
ZZ32106		0.14	0.002	1.06	1.23	21.7	<0.2	<10	390	1.11	0.24	1.75	4.02	26.1	10.1	30
ZZ32107		0.10	0.002	1.32	0.94	18.8	<0.2	<10	360	0.99	0.20	1.93	7.06	18.85	9.7	32
ZZ32108		0.12	0.002	2.60	1.04	21.8	<0.2	<10	300	1.15	0.19	2.18	6.92	23.8	8.0	58
ZZ32109		0.16	0.007	3.56	0.68	23.9	<0.2	<10	310	1.05	0.22	1.20	6.78	14.80	8.9	45
ZZ32110		0.16	0.006	1.98	0.47	19.5	<0.2	<10	740	0.65	0.20	1.24	5.20	11.95	6.8	35



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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ32071		0.45	53.0	2.08	2.42	0.08	0.03	0.30	0.023	0.08	14.9	6.5	0.56	217	10.15	0.01
ZZ32072		0.33	42.2	1.57	2.16	0.06	0.04	0.17	0.020	0.06	11.5	5.5	0.22	441	5.34	0.01
ZZ32073		0.39	59.4	2.02	2.59	0.05	0.04	0.30	0.026	0.08	11.0	8.2	0.43	230	7.25	0.01
ZZ32074		0.36	49.1	1.15	1.99	0.05	0.05	0.23	0.020	0.06	9.5	4.9	0.13	203	5.02	0.01
ZZ32075		0.86	127.5	1.30	2.99	0.17	0.05	0.44	0.018	0.11	23.9	3.5	0.47	84	51.7	0.01
ZZ32076		0.53	54.5	1.06	2.08	0.06	0.05	0.21	0.023	0.06	8.1	2.1	0.06	96	32.3	0.01
ZZ32077		0.79	28.2	3.12	4.63	<0.05	0.06	0.07	0.030	0.06	9.7	12.0	0.21	193	9.63	<0.01
ZZ32078		0.86	29.3	4.01	3.92	<0.05	0.03	0.04	0.035	0.07	5.1	15.8	0.20	345	7.02	<0.01
ZZ32079		0.54	34.1	3.09	3.24	0.07	0.06	0.24	0.025	0.07	17.2	10.3	1.10	562	7.92	0.01
ZZ32080		0.99	16.8	3.36	6.15	0.05	0.02	4.36	0.031	0.06	10.3	15.4	0.23	249	5.17	0.01
ZZ32081		0.60	46.1	2.10	2.85	0.07	0.06	0.23	0.024	0.09	14.8	7.7	1.22	263	17.25	0.01
ZZ32082		0.60	86.8	1.37	2.86	0.09	0.04	0.39	0.019	0.09	17.2	4.6	0.12	142	12.45	0.01
ZZ32083		0.32	59.5	1.33	1.79	0.06	0.04	0.22	0.013	0.04	7.3	3.6	0.11	350	6.04	0.01
ZZ32084		0.25	68.7	0.64	1.58	0.09	0.05	0.23	0.008	0.03	10.2	1.2	0.06	244	8.18	0.01
ZZ32085		0.55	64.3	1.05	2.42	0.09	0.04	0.23	0.020	0.07	12.2	4.3	0.21	383	14.90	0.01
ZZ32086		0.42	50.4	0.81	1.96	0.05	0.04	0.21	0.016	0.05	6.4	2.5	0.10	164	8.99	0.01
ZZ32087		0.43	39.5	0.71	1.77	0.05	0.05	0.20	0.014	0.04	5.4	2.3	0.11	166	3.36	0.01
ZZ32088		0.58	82.1	1.67	2.67	0.06	0.03	0.43	0.025	0.09	9.9	5.1	0.19	167	23.4	0.01
ZZ32089		0.35	91.2	1.28	2.28	0.10	0.04	0.39	0.019	0.07	18.3	4.0	0.85	95	26.8	0.01
ZZ32090		0.40	28.7	1.37	1.47	<0.05	0.05	0.28	0.018	0.06	4.7	4.6	0.25	275	2.07	0.01
ZZ32091		0.37	37.7	1.61	1.54	<0.05	0.03	0.23	0.021	0.06	5.8	4.8	0.32	282	3.71	0.01
ZZ32092		0.55	47.2	2.68	1.63	0.06	0.03	0.20	0.024	0.08	6.5	5.0	0.81	248	10.30	0.01
ZZ32093		0.39	50.3	1.28	1.30	0.06	0.04	0.22	0.015	0.06	6.8	2.5	0.44	168	9.13	0.01
ZZ32094		0.16	43.2	0.60	1.10	0.05	0.04	0.23	0.008	0.03	10.0	1.4	0.88	143	6.81	0.02
ZZ32095		0.21	19.0	0.80	1.62	0.05	0.02	0.07	0.010	0.02	20.2	2.6	0.07	111	3.89	0.02
ZZ32096		0.35	48.6	1.47	2.14	0.05	0.03	0.27	0.018	0.06	12.7	5.1	0.64	192	7.20	0.02
ZZ32097		0.64	25.8	2.65	3.83	<0.05	0.03	0.06	0.029	0.08	12.3	7.2	0.14	175	9.51	0.01
ZZ32098		0.44	23.8	1.37	2.18	<0.05	0.03	0.19	0.018	0.04	8.5	5.0	0.66	322	2.75	0.01
ZZ32099		0.45	21.7	0.85	1.72	0.05	0.02	0.15	0.012	0.02	11.6	2.1	0.09	248	2.97	0.01
ZZ32100		0.71	43.9	2.61	4.05	0.05	0.04	0.29	0.030	0.06	17.6	9.6	0.17	341	9.99	0.01
ZZ32101		0.88	14.6	3.52	4.19	<0.05	<0.02	0.09	0.030	0.05	6.8	11.7	0.22	311	2.98	0.01
ZZ32102		0.42	63.8	1.29	2.40	0.07	0.04	0.26	0.019	0.05	17.4	4.8	0.27	329	8.88	0.01
ZZ32103		0.40	75.9	1.36	2.78	0.10	0.04	0.34	0.021	0.06	23.7	5.0	0.13	159	22.4	0.01
ZZ32104		0.77	89.5	2.10	3.97	0.09	0.03	0.35	0.027	0.08	23.6	7.0	0.32	160	41.9	0.01
ZZ32105		0.66	88.8	2.42	3.05	0.11	0.06	0.41	0.030	0.09	34.2	6.5	0.14	280	25.5	0.01
ZZ32106		0.86	38.2	2.88	3.45	0.05	0.04	0.26	0.029	0.08	17.6	9.5	0.26	365	9.68	0.01
ZZ32107		0.58	52.0	2.46	2.91	0.05	0.04	0.26	0.026	0.08	14.4	10.2	0.25	409	8.20	0.01
ZZ32108		0.62	65.5	2.12	2.57	0.06	0.05	0.38	0.023	0.06	20.8	6.2	0.26	270	15.85	0.01
ZZ32109		0.98	89.5	2.29	2.11	0.07	0.05	0.41	0.031	0.10	12.6	3.9	0.09	227	14.65	0.01
ZZ32110		1.06	74.5	2.03	1.73	0.06	0.05	0.27	0.025	0.10	8.6	3.0	0.11	139	12.75	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ32071	0.26	118.0	1380	10.6	6.0	0.005	0.07	5.84	3.3	4.6	0.4	87.6	<0.01	0.08	0.9	
ZZ32072	0.26	73.5	1340	9.5	4.6	0.009	0.09	4.51	2.4	4.4	0.4	74.5	<0.01	0.05	0.7	
ZZ32073	0.27	105.5	1170	11.0	5.3	0.004	0.05	3.45	4.0	3.8	0.5	63.1	<0.01	0.07	1.7	
ZZ32074	0.21	95.0	1170	8.0	4.9	0.012	0.08	3.96	2.3	5.3	0.4	62.8	<0.01	0.07	0.8	
ZZ32075	0.09	230	2990	9.1	7.1	0.006	0.07	21.9	5.0	14.6	0.5	266	<0.01	0.12	1.9	
ZZ32076	0.16	154.5	530	7.1	6.0	0.004	0.09	10.75	2.0	6.2	0.4	57.8	<0.01	0.12	0.3	
ZZ32077	0.46	58.9	210	13.6	8.1	0.002	0.02	2.31	3.9	3.1	0.7	10.6	<0.01	0.03	3.2	
ZZ32078	0.21	35.8	250	14.8	12.8	0.001	0.01	1.21	3.7	2.7	0.6	8.6	<0.01	0.03	2.1	
ZZ32079	0.41	71.0	1020	13.5	7.6	0.005	0.05	3.47	5.0	4.3	0.5	41.8	<0.01	0.07	2.1	
ZZ32080	1.19	29.4	390	16.5	11.3	0.002	0.02	1.68	2.6	2.1	0.7	9.6	<0.01	0.03	2.9	
ZZ32081	0.32	149.0	1470	11.2	7.3	0.011	0.06	7.30	3.7	4.4	0.5	127.0	<0.01	0.07	1.4	
ZZ32082	0.21	167.0	2310	7.0	6.6	0.014	0.11	11.20	3.6	8.5	0.4	123.5	<0.01	0.10	0.6	
ZZ32083	0.20	167.5	1050	5.9	3.6	0.020	0.14	7.89	1.8	8.7	0.3	114.0	<0.01	0.03	0.4	
ZZ32084	0.13	246	880	4.0	3.0	0.007	0.16	8.62	2.3	7.1	0.2	141.5	<0.01	0.03	0.2	
ZZ32085	0.21	189.0	1350	7.7	5.9	0.020	0.10	10.20	3.0	8.4	0.3	97.7	<0.01	0.09	0.6	
ZZ32086	0.18	219	660	5.9	4.3	0.020	0.13	7.37	1.5	7.3	0.3	100.5	<0.01	0.07	0.3	
ZZ32087	0.17	131.0	850	5.4	3.4	0.018	0.16	5.38	1.5	7.2	0.3	109.5	<0.01	0.06	0.3	
ZZ32088	0.17	106.0	1320	9.9	6.1	0.010	0.08	12.15	3.4	6.9	0.4	101.0	<0.01	0.13	0.8	
ZZ32089	0.16	154.0	1890	9.6	4.5	0.024	0.12	15.20	2.6	10.8	0.5	161.5	<0.01	0.13	0.5	
ZZ32090	0.18	77.8	670	7.4	5.8	0.013	0.16	1.86	2.1	4.5	0.3	74.7	<0.01	0.04	0.7	
ZZ32091	0.17	118.0	770	9.1	5.3	0.012	0.12	2.72	2.3	5.0	0.3	85.8	<0.01	0.05	0.7	
ZZ32092	0.14	126.0	1120	10.8	5.3	0.009	0.06	4.19	3.8	7.7	0.4	64.5	<0.01	0.07	1.8	
ZZ32093	0.14	139.0	1170	6.9	3.5	0.008	0.10	5.25	1.5	6.9	0.3	80.4	<0.01	0.07	0.4	
ZZ32094	0.13	193.5	1050	4.6	1.8	0.006	0.14	4.75	0.6	5.8	0.2	174.5	<0.01	0.04	0.2	
ZZ32095	0.23	37.6	620	6.4	1.7	0.003	0.11	2.72	1.0	3.6	0.2	95.5	<0.01	0.04	<0.2	
ZZ32096	0.27	104.5	1040	8.2	4.9	0.005	0.11	5.03	1.6	6.1	0.4	91.1	<0.01	0.06	0.4	
ZZ32097	0.23	54.9	330	14.8	7.5	0.001	0.03	3.73	4.1	4.3	0.6	18.8	<0.01	0.08	2.5	
ZZ32098	0.38	85.3	790	8.6	4.8	0.002	0.12	2.06	1.6	4.0	0.3	92.7	<0.01	0.02	0.4	
ZZ32099	0.30	25.8	860	6.3	2.7	0.002	0.13	2.32	1.1	4.5	0.2	92.2	<0.01	0.04	0.2	
ZZ32100	0.32	81.0	890	16.2	7.3	0.001	0.03	4.30	5.2	5.9	0.6	31.5	<0.01	0.10	2.0	
ZZ32101	0.48	23.7	230	22.3	10.7	<0.001	0.01	0.95	2.7	1.1	0.5	14.5	<0.01	0.04	2.1	
ZZ32102	0.25	116.0	1320	9.7	5.0	0.010	0.11	9.73	2.7	7.2	0.4	85.9	<0.01	0.09	0.6	
ZZ32103	0.23	176.0	1300	9.9	5.2	0.011	0.12	15.90	3.1	10.6	0.5	88.9	<0.01	0.12	0.5	
ZZ32104	0.38	290	2010	14.4	8.1	0.006	0.07	19.45	5.7	8.7	0.6	70.0	<0.01	0.16	1.4	
ZZ32105	0.24	142.5	2230	14.5	8.1	0.004	0.06	12.40	7.4	9.1	0.5	55.8	<0.01	0.11	2.3	
ZZ32106	0.52	68.5	1060	14.5	9.2	0.003	0.05	5.02	4.3	4.7	0.5	46.6	<0.01	0.07	1.5	
ZZ32107	0.33	90.5	1250	13.9	6.7	0.009	0.07	4.94	4.1	5.7	0.5	49.5	<0.01	0.06	1.3	
ZZ32108	0.31	111.0	1650	12.4	7.0	0.005	0.07	7.47	5.2	8.7	0.5	63.8	<0.01	0.10	1.9	
ZZ32109	0.13	127.0	1670	14.5	7.7	0.004	0.05	7.53	6.5	8.7	0.5	68.5	<0.01	0.11	2.5	
ZZ32110	0.14	110.0	1420	12.4	7.1	0.003	0.06	7.67	4.7	7.2	0.5	77.4	<0.01	0.11	2.2	

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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32071		0.007	0.31	3.59	340	0.13	35.1	787	1.2
ZZ32072		0.007	0.21	4.87	285	0.10	26.3	558	1.3
ZZ32073		0.006	0.18	3.15	225	0.12	28.1	524	1.4
ZZ32074		0.005	0.27	4.48	308	0.11	27.5	578	1.7
ZZ32075		<0.005	0.88	11.80	762	0.35	67.1	1810	2.7
ZZ32076		0.005	1.17	9.45	642	0.22	36.1	1050	2.0
ZZ32077		0.006	0.28	1.54	289	0.11	9.54	318	2.3
ZZ32078		<0.005	0.22	0.87	119	<0.05	6.40	238	1.2
ZZ32079		0.007	0.22	3.39	243	0.16	28.4	415	1.4
ZZ32080		0.019	0.17	1.17	134	0.23	6.31	301	0.9
ZZ32081		0.007	0.79	3.89	373	0.21	35.6	1030	1.6
ZZ32082		0.006	0.49	11.05	786	0.18	41.4	1380	1.5
ZZ32083		<0.005	0.18	8.20	281	0.09	20.9	1040	1.5
ZZ32084		0.007	0.43	8.92	458	0.12	33.3	2620	2.3
ZZ32085		0.007	0.76	11.25	647	0.16	27.6	2110	1.8
ZZ32086		0.005	0.89	13.75	531	0.12	18.85	1470	2.4
ZZ32087		0.005	0.66	11.95	436	0.14	15.95	914	2.6
ZZ32088		<0.005	0.73	5.77	658	0.22	26.1	835	1.5
ZZ32089		<0.005	0.57	8.02	611	0.20	47.9	1130	1.9
ZZ32090		<0.005	0.30	7.27	119	0.06	13.20	783	1.8
ZZ32091		<0.005	0.29	5.90	172	0.05	17.25	1250	1.4
ZZ32092		<0.005	0.20	5.61	203	0.08	21.0	1310	1.6
ZZ32093		<0.005	0.18	7.10	194	0.08	21.6	757	1.4
ZZ32094		0.005	0.15	7.29	222	0.11	26.8	624	1.5
ZZ32095		0.009	0.12	2.47	179	0.08	35.5	350	1.0
ZZ32096		0.005	0.22	3.62	219	0.14	31.0	539	1.2
ZZ32097		<0.005	0.23	1.74	247	0.12	16.45	353	1.1
ZZ32098		0.007	0.15	3.80	124	0.09	15.95	565	1.3
ZZ32099		0.010	0.19	5.76	189	0.09	22.6	273	0.9
ZZ32100		<0.005	0.22	3.65	317	0.18	34.8	457	1.3
ZZ32101		0.009	0.14	0.94	79	0.17	4.03	165	0.6
ZZ32102		0.006	0.45	8.05	460	0.16	39.7	1020	1.7
ZZ32103		0.005	0.88	8.09	626	0.20	57.1	1680	1.6
ZZ32104		0.010	1.84	11.70	765	0.31	66.2	2030	1.4
ZZ32105		0.005	0.70	10.40	504	0.23	69.9	1040	1.8
ZZ32106		0.009	0.29	3.73	209	0.20	25.0	371	1.3
ZZ32107		0.007	0.23	3.47	263	0.13	29.2	601	1.4
ZZ32108		0.007	0.25	6.09	283	0.20	46.5	529	2.1
ZZ32109		<0.005	0.34	5.29	269	0.12	43.9	666	2.3
ZZ32110		0.005	0.37	4.24	205	0.14	30.6	589	2.6



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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ32111		0.14	0.004	0.94	0.42	12.4	<0.2	<10	760	0.62	0.19	0.54	2.19	29.2	9.2	13
ZZ32112		0.16	<0.001	0.29	0.45	13.7	<0.2	<10	60	0.14	0.21	0.01	0.20	11.40	3.0	12
ZZ32113		0.16	0.008	2.01	0.67	21.9	<0.2	<10	580	0.77	0.20	1.57	3.70	15.30	6.5	30
ZZ32114		0.14	0.003	0.68	1.07	27.8	<0.2	<10	840	0.72	0.21	1.83	3.25	17.75	8.3	23
ZZ32115		0.10	0.001	0.27	0.87	14.2	<0.2	<10	620	0.54	0.13	5.19	1.43	13.50	5.0	14
ZZ32116		0.16	0.001	0.49	0.52	8.6	<0.2	<10	740	0.30	0.23	0.72	0.21	7.04	3.4	14
ZZ32117		0.10	0.001	0.43	0.83	10.5	<0.2	<10	500	0.53	0.24	2.64	1.56	17.15	6.9	21
ZZ32118		0.16	<0.001	0.47	0.86	30.8	<0.2	<10	710	0.41	0.26	1.93	1.90	15.50	7.0	17
ZZ32119		0.12	<0.001	0.46	1.20	93.6	<0.2	<10	660	0.87	0.27	2.60	2.85	23.2	9.8	35
ZZ32120		0.12	<0.001	0.36	0.77	22.6	<0.2	<10	460	0.38	0.25	1.15	2.34	10.30	6.1	16
ZZ32121		0.16	0.001	0.59	0.75	54.7	<0.2	<10	570	0.54	0.25	0.79	1.55	9.16	5.6	24
ZZ32122		0.16	<0.001	0.18	0.51	70.6	<0.2	<10	200	0.28	0.25	0.23	0.86	8.06	4.9	17
ZZ32123		0.18	<0.001	0.43	0.96	125.5	<0.2	<10	220	0.65	0.21	1.00	1.99	16.00	7.6	26
ZZ32124		0.12	<0.001	0.31	0.76	54.9	<0.2	<10	250	0.39	0.13	3.44	0.78	11.95	5.8	18
ZZ32125		0.12	0.003	0.71	0.87	48.1	<0.2	<10	470	0.63	0.19	1.48	1.16	12.65	6.3	23
ZZ32126		0.16	0.002	0.28	1.03	189.0	<0.2	<10	160	0.60	0.16	1.15	0.54	17.05	8.1	23
ZZ32127		0.22	0.003	0.13	1.47	36.7	<0.2	<10	200	0.66	0.19	0.30	0.68	23.9	8.6	25
ZZ32128		0.12	0.001	0.22	1.00	8.0	<0.2	<10	370	0.49	0.17	2.42	1.31	17.95	8.8	23
ZZ32129		0.18	0.001	0.32	0.85	7.5	<0.2	<10	380	0.59	0.18	2.24	1.76	17.75	8.0	31
ZZ32130		0.18	<0.001	0.07	2.07	12.1	<0.2	<10	280	0.78	0.34	0.85	3.82	30.0	11.2	29
ZZ32131		0.18	0.001	0.26	1.11	173.5	<0.2	<10	380	0.64	0.18	1.26	1.09	14.60	5.1	28
ZZ32132		0.12	0.002	0.13	0.62	245	<0.2	<10	150	0.22	0.12	0.31	0.71	6.60	2.8	19
ZZ32133		0.14	0.003	0.13	1.37	32.9	<0.2	<10	420	0.69	0.21	1.51	0.78	14.00	7.8	22
ZZ32134		0.12	0.001	0.11	0.56	28.8	<0.2	10	600	0.43	0.12	5.11	0.90	6.56	7.6	9
ZZ32135		0.24	0.002	0.23	0.91	17.1	<0.2	<10	380	0.77	0.21	2.41	0.69	17.15	9.7	17
ZZ32136		0.24	0.003	0.22	1.04	17.8	<0.2	<10	350	0.57	0.18	1.10	0.58	20.2	8.4	22
ZZ32137		0.16	0.001	0.20	0.93	16.2	<0.2	<10	760	0.44	0.14	2.68	0.60	13.70	6.8	17
ZZ32138		0.14	0.003	0.21	0.98	20.5	<0.2	<10	290	0.57	0.16	1.22	0.78	19.30	8.9	21
ZZ32139		0.22	0.001	0.30	0.76	9.8	<0.2	<10	360	0.57	0.17	1.74	1.42	11.85	7.6	17
ZZ32140		0.14	0.002	0.47	0.55	4.5	<0.2	<10	290	0.40	0.12	3.67	2.75	11.30	6.6	19
ZZ32141		0.10	0.001	0.34	0.66	4.7	<0.2	<10	350	0.39	0.12	4.28	6.58	11.50	7.6	16
ZZ32142		0.12	0.001	0.14	0.74	3.9	<0.2	<10	250	0.23	0.19	3.08	1.13	11.35	4.6	15
ZZ32143		0.16	0.003	0.60	0.54	9.1	<0.2	<10	420	0.26	0.16	1.49	1.68	13.90	4.1	14
ZZ32144		0.20	0.002	0.25	1.29	15.2	<0.2	<10	370	0.22	0.31	0.09	0.23	18.10	3.8	24
ZZ32145		0.22	0.002	0.64	0.85	9.4	<0.2	<10	680	0.20	0.28	0.06	1.57	15.50	2.9	17
ZZ32146		0.20	0.004	2.44	0.64	5.9	<0.2	<10	2700	0.46	0.19	1.11	7.51	16.80	8.8	15
ZZ32147		0.24	0.002	0.46	0.34	22.0	<0.2	<10	360	0.59	0.18	0.48	2.88	16.80	14.9	18
ZZ32148		0.18	0.009	1.62	0.47	4.6	<0.2	<10	840	0.31	0.10	0.61	2.81	13.80	1.6	13
ZZ32149		0.22	0.002	0.33	0.51	8.4	<0.2	<10	730	0.40	0.20	0.44	1.62	6.93	5.0	11
ZZ32150		0.20	0.006	0.97	0.47	7.6	<0.2	<10	970	0.52	0.20	0.79	1.99	7.94	7.0	8

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ32111		1.37	65.7	2.58	1.53	0.08	<0.02	0.19	0.037	0.11	12.8	1.6	0.05	243	5.33	0.01
ZZ32112		0.90	16.6	1.12	3.68	<0.05	<0.02	0.02	0.011	0.05	5.6	0.9	0.02	39	4.15	<0.01
ZZ32113		0.67	69.3	1.81	2.27	0.06	0.04	0.39	0.028	0.08	9.2	6.1	0.14	143	7.64	0.01
ZZ32114		0.67	39.8	2.37	3.15	<0.05	0.03	0.28	0.029	0.07	9.1	8.0	0.20	266	5.31	0.01
ZZ32115		0.47	17.0	1.38	2.15	<0.05	0.03	0.18	0.014	0.03	10.7	3.9	0.11	377	1.09	0.01
ZZ32116		3.68	18.8	1.74	1.94	<0.05	0.02	0.07	0.028	0.09	4.5	2.4	0.08	139	1.08	0.01
ZZ32117		0.64	19.7	1.86	2.19	0.06	0.03	0.10	0.027	0.06	22.0	4.6	0.16	592	1.02	0.01
ZZ32118		3.42	17.4	2.01	3.30	<0.05	0.02	0.11	0.028	0.05	12.2	4.2	0.11	480	1.14	0.01
ZZ32119		0.90	25.2	2.92	3.25	0.11	0.06	0.10	0.039	0.07	41.4	8.1	0.19	605	1.57	0.01
ZZ32120		2.55	16.9	1.83	2.88	<0.05	0.03	0.07	0.023	0.08	6.3	3.0	0.10	555	1.95	0.01
ZZ32121		1.79	27.7	2.24	2.96	<0.05	0.06	0.07	0.030	0.13	6.6	4.0	0.10	193	4.11	0.01
ZZ32122		0.89	20.7	2.14	2.91	<0.05	<0.02	0.04	0.025	0.09	4.7	3.3	0.06	117	3.88	0.01
ZZ32123		1.05	16.1	2.17	3.01	0.06	0.03	0.12	0.029	0.07	24.1	5.6	0.12	436	2.16	0.01
ZZ32124		0.81	16.1	1.39	2.20	<0.05	0.03	0.14	0.013	0.04	12.2	5.7	0.16	425	1.02	0.01
ZZ32125		2.21	21.7	1.88	2.57	0.05	0.06	0.13	0.028	0.07	14.2	6.0	0.13	258	1.91	0.01
ZZ32126		1.22	20.3	2.21	3.24	0.05	0.05	0.18	0.021	0.05	16.3	17.8	0.30	208	1.44	0.01
ZZ32127		1.37	18.0	2.53	4.29	0.05	0.04	0.06	0.024	0.05	13.4	13.5	0.27	270	1.52	0.01
ZZ32128		0.60	17.4	1.68	3.23	0.06	0.04	0.13	0.020	0.05	17.5	8.5	0.25	489	0.86	0.01
ZZ32129		0.53	18.8	1.97	2.42	0.07	0.03	0.14	0.026	0.06	18.2	6.4	0.30	627	3.79	0.01
ZZ32130		1.43	14.4	3.31	6.55	<0.05	<0.02	0.03	0.035	0.04	15.9	12.4	0.31	409	6.76	0.01
ZZ32131		1.20	12.9	2.15	3.34	<0.05	0.04	0.13	0.024	0.06	14.1	7.0	0.14	211	2.14	0.01
ZZ32132		1.54	8.9	1.52	2.46	<0.05	0.02	0.06	0.015	0.04	6.3	3.9	0.06	64	2.29	0.01
ZZ32133		0.74	12.9	2.55	4.18	<0.05	0.03	0.10	0.027	0.06	10.0	12.5	0.21	248	1.86	0.01
ZZ32134		0.33	33.8	1.58	1.60	<0.05	0.04	0.26	0.012	0.04	4.5	3.9	0.13	1180	1.32	0.02
ZZ32135		0.57	27.1	2.62	3.23	<0.05	0.04	0.34	0.027	0.08	9.0	14.0	0.84	424	1.33	0.01
ZZ32136		0.68	22.9	2.31	3.31	<0.05	0.05	0.13	0.021	0.05	11.9	13.2	0.37	287	0.99	0.01
ZZ32137		0.45	18.8	1.80	2.90	<0.05	0.03	0.13	0.018	0.04	9.0	8.8	0.26	691	0.74	0.01
ZZ32138		0.61	23.1	2.21	3.34	0.05	0.04	0.12	0.022	0.07	11.6	13.0	0.37	341	0.96	0.01
ZZ32139		0.65	20.5	2.08	2.52	<0.05	0.03	0.16	0.027	0.06	7.9	9.0	0.20	290	3.68	0.01
ZZ32140		0.32	13.1	1.07	1.73	0.05	0.04	0.28	0.013	0.03	11.7	4.3	0.12	551	1.42	0.01
ZZ32141		0.31	15.6	1.26	1.93	<0.05	0.03	0.30	0.017	0.04	9.5	4.8	0.14	543	1.06	0.01
ZZ32142		0.82	9.1	1.17	3.35	<0.05	0.02	0.15	0.018	0.03	7.7	4.8	0.06	390	4.26	0.01
ZZ32143		0.57	23.3	1.69	2.66	<0.05	<0.02	0.14	0.014	0.05	6.8	3.6	0.05	87	3.63	0.01
ZZ32144		1.19	8.4	3.20	7.22	<0.05	<0.02	0.07	0.023	0.06	9.7	9.5	0.21	206	4.87	0.01
ZZ32145		0.58	33.7	1.95	5.47	<0.05	<0.02	0.04	0.015	0.06	8.6	2.6	0.07	113	3.51	0.01
ZZ32146		0.57	32.4	1.30	2.49	0.06	0.02	0.24	0.023	0.06	8.6	4.4	0.07	452	2.75	0.01
ZZ32147		0.65	85.4	3.23	2.09	0.07	<0.02	0.09	0.044	0.07	7.0	0.9	0.02	251	12.80	<0.01
ZZ32148		0.40	43.2	1.22	1.93	0.05	0.04	0.33	0.020	0.03	6.1	1.3	0.03	43	2.00	0.01
ZZ32149		0.63	38.5	1.82	2.37	<0.05	<0.02	0.08	0.025	0.08	3.4	2.9	0.06	124	3.73	0.01
ZZ32150		0.94	51.8	1.72	1.50	<0.05	0.04	0.27	0.028	0.08	3.8	2.4	0.06	155	2.64	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ32111	0.10	67.5	1930	13.7	7.7	0.002	0.02	3.76	6.3	3.8	0.4	38.9	<0.01	0.05	4.2	
ZZ32112	0.27	21.6	200	8.2	8.8	<0.001	0.01	1.97	1.0	1.3	0.6	3.7	<0.01	0.06	1.1	
ZZ32113	0.22	79.8	1280	13.0	6.8	0.004	0.05	3.96	4.3	5.2	0.5	45.1	<0.01	0.06	1.7	
ZZ32114	0.38	50.3	860	16.5	7.6	0.003	0.06	2.51	2.4	3.9	0.4	37.3	<0.01	0.06	0.6	
ZZ32115	0.35	21.3	940	8.8	3.3	<0.001	0.12	0.80	0.8	2.2	0.3	46.8	<0.01	0.02	0.2	
ZZ32116	0.21	19.4	780	10.4	9.3	0.001	0.11	1.14	1.8	1.3	0.4	43.1	<0.01	0.11	0.5	
ZZ32117	0.28	21.4	1860	14.4	5.8	<0.001	0.20	0.65	1.1	2.1	0.3	40.5	<0.01	0.13	0.4	
ZZ32118	0.54	20.2	1940	14.1	13.1	<0.001	0.18	0.67	1.7	1.8	0.5	40.5	0.01	0.06	0.3	
ZZ32119	0.33	37.9	2270	20.1	7.5	<0.001	0.16	0.85	2.2	3.1	0.4	38.5	<0.01	0.14	0.6	
ZZ32120	0.38	21.4	2020	11.5	19.0	0.001	0.17	0.71	1.6	1.0	0.4	26.6	<0.01	0.07	0.4	
ZZ32121	0.29	43.5	1300	13.0	13.4	<0.001	0.10	1.13	2.6	2.6	0.5	39.8	<0.01	0.09	0.7	
ZZ32122	0.39	37.9	530	11.8	13.7	<0.001	0.05	1.03	1.8	2.0	0.5	23.1	<0.01	0.08	0.6	
ZZ32123	0.28	33.0	980	10.5	10.2	0.001	0.06	0.88	3.4	1.8	0.4	27.6	<0.01	0.06	0.5	
ZZ32124	0.37	23.3	1140	6.8	5.6	<0.001	0.10	0.64	1.7	1.3	0.3	41.5	<0.01	0.02	0.2	
ZZ32125	0.28	34.8	1170	10.8	11.0	0.001	0.11	0.77	3.0	2.2	0.4	35.9	<0.01	0.08	0.7	
ZZ32126	0.49	35.7	1140	8.9	9.4	0.002	0.10	1.19	2.9	2.2	0.4	40.9	<0.01	0.02	1.1	
ZZ32127	0.53	27.9	670	9.8	9.6	<0.001	0.02	0.68	3.1	0.6	0.5	20.2	<0.01	0.04	2.1	
ZZ32128	0.45	79.1	1130	9.7	5.8	0.001	0.13	0.49	1.8	2.0	0.4	29.5	<0.01	0.04	0.5	
ZZ32129	0.30	40.8	1370	13.0	6.0	0.001	0.11	0.80	2.2	2.4	0.4	29.4	<0.01	0.08	0.4	
ZZ32130	0.82	39.3	710	16.9	7.9	<0.001	0.06	0.94	2.3	0.3	0.7	14.2	<0.01	0.08	0.6	
ZZ32131	0.39	28.7	550	10.7	8.6	<0.001	0.05	1.27	4.5	1.5	0.4	26.8	<0.01	0.05	0.8	
ZZ32132	0.28	24.6	460	9.0	5.7	<0.001	0.04	1.65	2.0	2.0	0.4	19.8	<0.01	0.03	0.7	
ZZ32133	0.50	26.6	440	15.9	8.1	<0.001	0.04	0.67	3.2	0.8	0.5	30.6	<0.01	0.04	1.3	
ZZ32134	0.21	21.2	1320	6.5	3.9	0.001	0.22	0.79	0.7	1.6	0.2	69.0	<0.01	0.04	0.2	
ZZ32135	0.37	30.1	890	16.4	7.3	0.002	0.07	0.71	4.1	1.5	0.4	47.7	<0.01	0.02	1.8	
ZZ32136	0.61	28.7	920	10.0	6.6	0.002	0.06	0.65	3.2	1.0	0.4	32.9	<0.01	0.03	2.1	
ZZ32137	0.47	19.6	1010	7.6	5.0	0.001	0.13	0.64	1.7	2.7	0.3	51.4	<0.01	0.04	0.4	
ZZ32138	0.57	32.0	950	9.5	7.0	0.002	0.09	0.61	3.2	1.0	0.4	34.5	<0.01	0.01	1.7	
ZZ32139	0.24	35.0	1040	10.6	7.3	0.017	0.11	0.92	3.4	2.9	0.4	30.3	<0.01	0.05	1.6	
ZZ32140	0.30	29.5	1200	7.1	4.6	0.008	0.15	0.68	2.5	3.4	0.3	30.3	<0.01	0.07	0.5	
ZZ32141	0.36	68.6	1580	7.1	4.2	0.002	0.18	0.71	1.4	2.9	0.3	35.9	<0.01	0.06	0.3	
ZZ32142	0.57	14.1	1860	9.3	4.3	0.002	0.13	0.42	1.2	0.3	0.4	32.6	<0.01	0.07	0.2	
ZZ32143	0.37	30.3	1020	9.5	7.3	<0.001	0.12	1.16	1.2	1.3	0.4	51.8	<0.01	0.05	0.7	
ZZ32144	1.21	10.3	790	16.1	10.9	<0.001	0.05	2.11	1.5	1.8	0.8	14.1	<0.01	0.06	0.8	
ZZ32145	0.36	17.0	1020	12.0	6.1	<0.001	0.02	1.10	0.5	0.8	0.8	9.8	<0.01	0.04	0.2	
ZZ32146	0.44	43.5	1000	9.5	7.4	0.006	0.11	1.64	2.6	9.3	0.4	58.6	<0.01	0.03	0.7	
ZZ32147	0.12	123.5	1460	13.2	7.0	0.002	0.02	7.31	4.9	8.6	0.5	46.7	<0.01	0.09	2.5	
ZZ32148	0.17	29.6	1260	7.5	3.7	0.005	0.12	1.61	4.6	8.8	0.3	33.8	<0.01	0.03	1.5	
ZZ32149	0.25	35.3	510	8.9	8.8	<0.001	0.02	2.23	2.6	2.2	0.4	26.7	<0.01	0.06	1.6	
ZZ32150	0.16	46.0	640	12.9	8.0	0.004	0.06	1.93	4.1	4.2	0.4	61.8	<0.01	0.05	1.2	

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32111		<0.005	0.30	3.20	86	<0.05	23.6	358	<0.5
ZZ32112		0.009	0.21	0.40	98	0.13	1.41	125	<0.5
ZZ32113		0.005	0.25	3.77	151	0.13	27.5	402	1.6
ZZ32114		0.007	0.24	3.78	135	0.12	17.35	235	0.9
ZZ32115		0.008	0.07	3.80	40	0.07	19.60	68	0.9
ZZ32116		0.007	0.12	0.94	37	0.07	6.04	91	0.7
ZZ32117		0.008	0.10	1.20	39	0.08	40.3	151	0.9
ZZ32118		0.013	0.25	2.09	41	0.10	19.55	122	0.7
ZZ32119		0.008	0.29	1.52	51	0.10	80.0	274	1.6
ZZ32120		0.010	0.12	0.92	34	0.13	8.43	162	0.9
ZZ32121		0.008	0.24	1.84	51	0.09	11.10	208	1.5
ZZ32122		0.013	0.18	0.66	49	0.14	3.78	160	<0.5
ZZ32123		0.008	0.19	1.62	46	0.09	37.3	186	0.7
ZZ32124		0.011	0.12	3.17	33	0.07	22.3	96	0.8
ZZ32125		0.005	0.22	1.55	39	0.07	27.2	155	1.8
ZZ32126		0.014	0.28	1.46	37	0.17	21.3	144	1.5
ZZ32127		0.015	0.16	1.18	48	0.29	10.65	101	0.7
ZZ32128		0.012	0.11	4.33	54	0.17	30.2	363	1.1
ZZ32129		0.009	0.15	2.34	65	0.09	40.4	198	0.9
ZZ32130		0.026	0.24	0.60	78	0.22	12.35	191	<0.5
ZZ32131		0.007	0.34	2.09	54	0.13	29.6	109	0.8
ZZ32132		0.007	0.37	1.32	38	0.07	11.60	105	0.5
ZZ32133		0.006	0.19	1.77	54	0.11	13.55	166	0.9
ZZ32134		0.005	0.09	2.71	20	<0.05	9.84	107	1.2
ZZ32135		0.007	0.11	0.92	34	0.06	13.25	144	1.5
ZZ32136		0.022	0.10	1.01	42	0.23	11.30	126	1.4
ZZ32137		0.013	0.07	1.39	31	0.10	10.55	62	0.9
ZZ32138		0.020	0.09	0.78	36	0.25	12.70	132	1.4
ZZ32139		<0.005	0.15	2.20	48	<0.05	17.00	147	1.3
ZZ32140		0.008	0.14	4.60	46	0.05	25.7	140	1.2
ZZ32141		0.009	0.11	4.32	45	0.09	21.4	376	1.0
ZZ32142		0.019	0.12	2.28	47	0.11	11.80	72	0.6
ZZ32143		0.013	0.27	1.35	79	0.09	7.42	203	0.6
ZZ32144		0.036	0.23	0.59	122	0.30	2.24	53	<0.5
ZZ32145		0.014	0.17	0.86	91	0.17	2.09	90	<0.5
ZZ32146		0.012	0.23	4.52	56	0.07	14.50	186	0.6
ZZ32147		<0.005	0.19	5.01	149	<0.05	16.45	717	<0.5
ZZ32148		<0.005	0.21	6.04	63	<0.05	15.20	86	1.2
ZZ32149		0.006	0.20	1.01	78	0.06	5.13	215	0.5
ZZ32150		<0.005	0.27	1.56	50	<0.05	14.70	181	1.9



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ32151		0.14	0.004	0.70	0.53	5.9	<0.2	<10	920	0.44	0.16	0.98	2.55	6.26	3.5	9
ZZ32152		0.22	0.003	1.41	0.66	25.6	<0.2	<10	750	0.95	0.13	3.34	14.40	17.55	7.1	29
ZZ32153		0.18	<0.001	1.65	0.47	14.8	<0.2	<10	800	0.61	0.14	2.86	10.15	9.47	5.9	21
ZZ32154		0.16	0.004	1.39	0.44	14.8	<0.2	<10	490	0.53	0.11	2.81	8.74	10.90	4.7	24
ZZ32155		0.18	0.003	1.45	0.52	14.6	<0.2	<10	520	0.67	0.14	2.58	6.45	12.00	6.6	23
ZZ32156		0.18	0.007	1.83	0.52	30.8	<0.2	<10	440	0.94	0.17	2.47	12.30	17.40	6.7	29
ZZ32157		0.22	0.006	1.80	0.47	27.6	<0.2	<10	390	0.80	0.16	2.41	10.55	16.35	5.8	33
ZZ32158		0.22	0.004	1.63	0.43	24.5	<0.2	<10	420	0.67	0.13	3.23	12.20	15.25	5.1	30
ZZ32159		0.16	<0.001	1.44	0.36	23.0	<0.2	<10	390	0.65	0.11	3.23	9.60	12.15	4.6	28
ZZ32160		0.14	0.008	2.09	0.48	26.1	<0.2	<10	470	0.69	0.13	3.14	11.50	13.05	5.1	31
ZZ32161		0.12	0.003	1.37	0.39	21.4	<0.2	10	520	0.56	0.10	3.84	7.46	11.10	6.9	27
ZZ32162		0.20	0.001	0.10	1.38	17.7	<0.2	<10	250	0.97	0.25	0.22	0.68	17.80	12.4	21
ZZ32163		0.18	0.015	0.88	0.71	11.5	<0.2	10	220	0.90	0.19	1.65	1.52	17.95	10.4	13
ZZ32164		0.16	0.008	0.62	0.66	7.8	<0.2	10	200	0.73	0.17	2.13	1.41	10.65	8.0	11
ZZ32165		0.14	0.004	0.40	0.57	8.6	<0.2	10	230	0.50	0.13	2.50	1.58	8.57	6.5	11
ZZ32166		0.18	0.003	1.04	0.59	15.4	<0.2	10	300	0.70	0.17	2.09	4.90	12.35	10.2	19
ZZ32167		0.20	0.007	0.79	0.59	11.8	<0.2	<10	280	0.68	0.16	1.35	3.49	13.05	6.7	19
ZZ32168		0.14	0.005	0.41	0.95	17.1	<0.2	<10	390	0.44	0.19	2.23	1.01	8.74	6.9	19
ZZ32169		0.20	0.002	0.50	0.81	11.2	<0.2	<10	320	0.57	0.17	1.40	0.97	9.92	7.4	17
ZZ32170		0.18	0.003	0.11	1.14	11.7	<0.2	<10	350	0.80	0.24	0.67	0.73	8.00	12.6	20
ZZ32171		0.18	0.005	0.45	1.00	11.8	<0.2	<10	360	0.78	0.22	1.25	1.45	9.31	9.0	20
ZZ32172		0.14	0.006	0.75	0.71	12.6	<0.2	<10	310	0.68	0.17	2.07	2.47	10.75	8.8	19
ZZ32173		0.16	0.001	0.56	0.71	10.0	<0.2	<10	360	0.51	0.17	2.32	2.27	6.34	8.8	17
ZZ32174		0.24	0.005	0.34	0.97	12.2	<0.2	<10	290	0.67	0.23	1.29	1.11	9.47	8.3	20
ZZ32175		0.18	0.003	0.64	0.88	14.1	<0.2	<10	350	0.75	0.21	1.55	3.43	10.80	13.1	20
ZZ32176		0.18	0.002	0.72	0.86	8.2	<0.2	<10	380	0.74	0.19	1.72	3.69	10.55	14.1	20
ZZ32177		0.20	0.010	1.14	0.84	13.2	<0.2	<10	350	0.88	0.22	1.73	2.96	13.15	9.8	24
ZZ32178		0.22	0.006	0.87	0.88	10.4	<0.2	<10	300	0.94	0.21	1.26	3.60	12.85	6.5	23
ZZ32179		0.28	0.012	0.42	1.22	20.8	<0.2	<10	340	0.98	0.25	1.71	2.77	12.30	15.3	22
ZZ32180		0.14	0.003	0.63	1.11	17.3	<0.2	<10	600	0.91	0.22	1.89	3.46	8.65	11.1	20
ZZ32181		0.18	0.008	0.77	1.35	18.7	<0.2	<10	330	0.98	0.27	0.48	2.18	12.65	14.8	26
ZZ32182		0.18	0.003	0.21	1.29	22.5	<0.2	<10	340	0.88	0.23	1.96	0.57	18.05	8.9	21
ZZ32183		0.18	0.007	0.28	0.73	206	<0.2	<10	460	0.54	0.16	1.54	0.96	10.65	8.4	15
ZZ32184		0.24	0.015	0.25	1.33	29.1	<0.2	<10	300	0.85	0.29	0.64	0.51	17.15	12.4	24
ZZ32185		0.16	0.009	0.14	1.03	15.1	<0.2	<10	400	0.62	0.21	2.06	0.44	8.63	7.9	17
ZZ32186		0.18	0.004	0.86	0.82	18.2	<0.2	<10	330	0.95	0.18	2.04	11.50	29.6	8.8	13
ZZ32187		0.16	0.013	0.20	1.13	17.8	<0.2	<10	220	0.70	0.18	2.60	2.95	17.95	6.8	15
ZZ32188		0.16	0.029	0.82	0.90	165.0	<0.2	<10	180	0.99	0.22	3.76	8.21	32.3	10.1	25
ZZ32189		0.14	0.017	1.13	0.97	322	<0.2	<10	260	0.91	0.18	1.68	3.54	30.3	8.7	30
ZZ32190		0.16	0.006	0.39	0.93	296	<0.2	<10	240	0.99	0.20	1.29	1.37	43.8	8.7	18



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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
ZZ32151		0.66	30.0	1.40	1.72	<0.05	0.05	0.21	0.021	0.07	3.2	2.8	0.07	93	1.41	0.01
ZZ32152		0.56	64.8	1.48	2.57	0.07	0.05	0.43	0.023	0.06	15.6	5.4	0.26	178	46.6	0.01
ZZ32153		0.48	60.1	1.21	1.68	0.05	0.05	0.35	0.019	0.06	6.7	3.2	0.12	252	8.11	0.01
ZZ32154		0.43	62.3	1.41	1.62	0.05	0.04	0.33	0.020	0.07	7.8	3.8	0.39	185	9.18	0.01
ZZ32155		0.34	56.5	1.67	1.86	0.05	0.05	0.32	0.024	0.06	7.4	4.1	0.14	238	8.26	0.01
ZZ32156		0.43	88.7	2.07	2.22	0.08	0.05	0.43	0.026	0.08	11.4	4.9	0.28	182	25.2	0.01
ZZ32157		0.32	86.9	1.77	1.93	0.07	0.05	0.38	0.024	0.07	8.7	4.5	0.39	161	18.35	0.01
ZZ32158		0.36	80.6	1.52	1.84	0.06	0.06	0.29	0.019	0.07	8.6	4.0	0.75	184	17.30	0.01
ZZ32159		0.29	69.4	1.47	1.46	0.07	0.04	0.29	0.016	0.07	7.4	3.2	0.82	193	14.90	0.01
ZZ32160		0.29	87.5	1.74	1.78	0.05	0.06	0.39	0.019	0.07	7.7	3.9	0.72	229	17.60	0.01
ZZ32161		0.41	61.9	1.36	1.50	0.05	0.08	0.29	0.014	0.06	6.3	3.5	0.80	439	14.05	0.01
ZZ32162		0.73	32.1	4.95	3.18	<0.05	0.02	0.20	0.042	0.06	6.4	18.3	0.22	322	3.92	<0.01
ZZ32163		0.84	32.2	3.14	1.94	0.05	0.06	0.15	0.034	0.09	6.7	9.2	0.21	284	5.78	0.01
ZZ32164		0.74	25.9	2.50	1.64	<0.05	0.06	0.12	0.028	0.09	4.6	8.6	0.24	212	3.72	0.01
ZZ32165		0.50	26.7	2.01	1.46	<0.05	0.05	0.20	0.019	0.07	4.2	6.1	0.23	320	3.57	0.01
ZZ32166		0.49	40.3	2.60	1.75	<0.05	0.05	0.25	0.025	0.08	6.0	7.2	0.35	1160	7.76	0.01
ZZ32167		0.69	47.7	2.03	1.74	<0.05	0.05	0.21	0.024	0.08	6.3	7.4	0.18	227	5.85	<0.01
ZZ32168		0.38	19.3	2.41	3.21	<0.05	0.03	0.48	0.023	0.06	4.6	11.0	0.22	364	2.57	<0.01
ZZ32169		0.59	25.2	2.86	2.08	<0.05	0.04	0.37	0.024	0.07	4.6	8.4	0.20	316	4.23	0.01
ZZ32170		0.70	33.5	3.58	3.06	<0.05	0.03	0.23	0.039	0.08	3.2	16.2	0.30	389	2.30	0.01
ZZ32171		0.90	37.5	3.11	2.53	<0.05	0.04	0.29	0.030	0.08	4.3	13.8	0.26	338	3.89	0.01
ZZ32172		0.71	40.4	2.37	2.11	<0.05	0.05	0.28	0.028	0.07	5.2	9.0	0.22	349	6.17	0.01
ZZ32173		1.11	31.3	2.25	2.00	<0.05	0.06	0.27	0.028	0.07	2.9	9.7	0.26	424	3.90	0.01
ZZ32174		0.53	27.4	3.04	2.85	<0.05	0.03	0.26	0.029	0.07	4.4	14.2	0.28	365	3.67	0.01
ZZ32175		0.72	41.8	2.88	2.61	<0.05	0.05	0.26	0.032	0.07	5.0	12.8	0.25	1180	5.55	0.01
ZZ32176		0.81	43.3	2.41	2.59	<0.05	0.06	0.29	0.034	0.08	4.8	12.6	0.25	1440	3.60	0.01
ZZ32177		0.78	55.6	2.49	2.55	0.05	0.06	0.33	0.031	0.07	6.5	10.1	0.22	624	5.78	0.01
ZZ32178		0.84	57.9	1.84	2.68	0.05	0.06	0.27	0.031	0.08	6.1	11.4	0.21	567	3.33	0.01
ZZ32179		1.02	49.6	3.84	3.73	0.06	0.06	0.22	0.039	0.09	5.1	20.1	0.43	386	2.19	0.01
ZZ32180		0.53	47.1	3.17	2.88	<0.05	0.07	0.21	0.032	0.10	4.2	10.6	0.21	2870	12.90	0.01
ZZ32181		0.99	44.0	4.17	4.02	0.05	0.04	0.29	0.045	0.11	5.5	17.1	0.31	456	6.03	0.01
ZZ32182		0.60	30.8	3.60	3.49	<0.05	0.06	0.22	0.030	0.10	8.4	15.1	0.68	452	1.69	0.01
ZZ32183		1.34	24.3	2.47	2.11	<0.05	0.04	0.39	0.021	0.06	5.0	10.3	0.70	589	2.12	0.01
ZZ32184		1.17	35.6	3.80	4.17	<0.05	0.06	0.26	0.032	0.12	7.3	18.7	0.38	579	2.27	0.01
ZZ32185		0.51	17.7	2.69	2.91	<0.05	0.04	0.21	0.022	0.07	4.0	11.8	0.27	632	1.00	0.01
ZZ32186		0.45	27.9	2.82	2.19	0.06	0.08	0.21	0.032	0.10	14.7	4.2	0.19	417	6.46	0.01
ZZ32187		0.41	14.2	2.18	3.02	<0.05	0.08	0.13	0.021	0.06	9.5	4.9	0.18	470	2.41	0.01
ZZ32188		0.63	36.3	2.88	2.60	0.06	0.06	0.45	0.025	0.10	22.3	6.1	1.24	343	24.9	0.01
ZZ32189		0.51	31.6	2.42	2.87	0.06	0.06	0.22	0.028	0.08	18.7	5.6	0.16	437	3.97	0.01
ZZ32190		0.57	15.7	3.08	2.31	0.06	0.05	0.09	0.031	0.09	22.5	4.7	0.11	385	3.31	<0.01



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ32151	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ32152	0.21	27.2	820	9.2	7.5	0.012	0.09	1.31	2.9	3.5	0.4	69.7	<0.01	0.05	1.0	
ZZ32153	0.23	162.0	960	9.1	5.6	0.008	0.08	12.15	3.5	9.8	0.5	82.2	<0.01	0.12	0.8	
ZZ32154	0.15	92.5	980	8.3	5.9	0.017	0.11	5.82	2.4	6.6	0.4	70.5	<0.01	0.07	0.5	
ZZ32155	0.13	115.5	1260	7.6	5.6	0.011	0.09	4.71	3.1	5.1	0.4	74.5	<0.01	0.06	0.8	
ZZ32156	0.16	102.5	1220	8.7	4.8	0.011	0.10	4.60	2.7	5.5	0.4	75.9	<0.01	0.08	0.8	
ZZ32157	0.18	154.5	1170	11.0	6.0	0.011	0.08	11.30	3.3	6.5	0.6	74.2	<0.01	0.12	1.1	
ZZ32158	0.15	153.0	1080	10.3	4.7	0.014	0.07	7.90	3.4	7.0	0.5	81.1	<0.01	0.13	1.4	
ZZ32159	0.12	160.0	1140	9.3	4.9	0.010	0.07	7.85	2.8	5.8	0.4	98.4	<0.01	0.12	1.2	
ZZ32160	0.10	144.5	1280	8.0	4.0	0.014	0.07	6.76	2.4	5.7	0.4	96.5	<0.01	0.11	1.2	
ZZ32161	0.13	180.0	1170	9.1	4.6	0.011	0.08	8.75	2.6	6.3	0.4	93.8	<0.01	0.11	1.0	
ZZ32162	0.12	130.0	1050	7.2	5.4	0.031	0.12	7.61	1.9	6.0	0.4	108.0	<0.01	0.11	0.8	
ZZ32163	0.17	31.0	360	20.6	9.1	<0.001	0.02	0.73	4.1	1.3	0.5	14.0	<0.01	0.03	2.7	
ZZ32164	0.18	36.1	670	15.2	6.4	0.004	0.06	2.20	4.0	2.2	0.4	53.8	<0.01	0.04	2.3	
ZZ32165	0.17	27.2	700	11.9	6.3	0.009	0.09	1.44	3.4	2.4	0.3	74.2	<0.01	0.06	1.5	
ZZ32166	0.16	31.9	830	9.6	4.8	0.004	0.11	1.73	1.8	1.9	0.3	97.4	<0.01	0.03	0.6	
ZZ32167	0.14	74.6	950	11.7	5.4	0.011	0.08	3.44	3.1	3.5	0.4	76.0	<0.01	0.07	1.4	
ZZ32168	0.15	66.9	1020	11.8	5.6	0.009	0.06	2.76	3.5	2.8	0.4	50.6	<0.01	0.05	1.9	
ZZ32169	0.51	27.9	690	12.8	5.9	0.004	0.09	1.25	2.2	2.2	0.4	70.0	<0.01	0.02	0.8	
ZZ32170	0.27	35.0	620	12.4	5.9	0.004	0.07	1.02	3.0	2.3	0.3	57.5	<0.01	0.02	1.2	
ZZ32171	0.20	48.1	610	15.1	7.3	0.001	0.05	0.51	4.9	1.5	0.4	40.0	<0.01	0.05	2.8	
ZZ32172	0.16	58.3	780	14.3	7.6	0.007	0.08	1.32	4.1	2.3	0.4	60.3	<0.01	0.05	1.7	
ZZ32173	0.19	51.6	870	12.7	6.6	0.009	0.10	2.18	3.4	3.6	0.4	78.4	<0.01	0.06	1.3	
ZZ32174	0.16	51.9	700	12.8	7.3	0.024	0.14	1.87	3.0	2.8	0.3	82.8	<0.01	0.03	1.3	
ZZ32175	0.28	35.9	600	16.1	6.2	0.009	0.07	1.10	3.5	2.0	0.4	46.4	<0.01	0.02	1.7	
ZZ32176	0.22	70.0	760	14.0	7.4	0.016	0.08	1.91	3.8	2.6	0.4	59.5	<0.01	0.07	1.6	
ZZ32177	0.19	79.2	790	14.8	7.8	0.017	0.11	1.50	4.0	3.5	0.4	71.1	<0.01	0.04	1.5	
ZZ32178	0.18	66.8	940	16.7	7.4	0.016	0.11	2.68	4.2	4.2	0.5	71.9	<0.01	0.06	1.5	
ZZ32179	0.17	64.5	840	15.6	7.5	0.011	0.09	2.48	4.5	3.5	0.4	56.7	<0.01	0.06	1.9	
ZZ32180	0.23	73.1	950	20.0	10.4	0.004	0.07	1.01	6.5	10.9	0.5	53.5	<0.01	0.05	3.5	
ZZ32181	0.21	98.9	1060	14.4	6.7	0.015	0.14	2.71	3.4	5.6	0.4	72.1	<0.01	0.06	1.2	
ZZ32182	0.28	54.8	990	20.6	10.2	0.006	0.06	1.74	6.3	7.1	0.5	31.7	<0.01	0.06	3.7	
ZZ32183	0.41	32.1	760	19.8	8.1	0.001	0.07	0.71	5.2	1.4	0.4	43.1	<0.01	0.04	2.4	
ZZ32184	0.23	30.4	870	16.3	6.7	0.004	0.07	0.89	2.9	1.8	0.3	50.9	<0.01	0.03	2.0	
ZZ32185	0.45	35.1	700	20.9	9.0	0.002	0.03	0.72	5.5	1.4	0.5	29.4	<0.01	0.04	4.0	
ZZ32186	0.37	18.0	730	15.6	7.3	0.003	0.11	0.48	2.6	1.6	0.3	41.7	<0.01	0.02	1.0	
ZZ32187	0.16	53.6	1170	15.3	8.5	0.002	0.17	5.75	1.6	3.9	0.3	53.4	<0.01	0.06	0.7	
ZZ32188	0.42	21.3	1890	13.1	6.1	0.001	0.21	2.06	1.5	1.0	0.3	72.2	0.01	0.04	0.7	
ZZ32189	0.29	94.4	1340	19.0	7.4	0.002	0.10	6.23	2.6	2.8	0.5	42.8	<0.01	0.05	1.2	
ZZ32190	0.25	42.9	1090	20.0	6.6	0.001	0.11	2.67	2.2	1.8	0.4	45.4	<0.01	0.06	0.8	
ZZ32191	0.21	38.0	550	15.5	7.8	<0.001	0.06	1.80	3.7	1.1	0.3	109.0	<0.01	0.02	1.8	

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ32151		<0.005	0.19	1.32	46	<0.05	8.64	121	2.0
ZZ32152		0.005	0.82	5.40	545	0.21	43.7	1160	2.2
ZZ32153		<0.005	0.37	3.34	279	0.10	21.8	528	1.9
ZZ32154		<0.005	0.33	2.92	220	0.12	25.2	555	1.8
ZZ32155		<0.005	0.26	3.24	241	0.08	20.8	528	2.1
ZZ32156		<0.005	0.43	4.30	424	0.18	29.3	903	2.3
ZZ32157		<0.005	0.30	4.15	390	0.18	29.8	910	2.5
ZZ32158		<0.005	0.33	3.93	399	0.14	27.1	925	2.4
ZZ32159		<0.005	0.23	4.09	351	0.14	24.8	899	2.0
ZZ32160		<0.005	0.30	3.61	394	0.16	25.5	1070	2.2
ZZ32161		<0.005	0.45	4.78	374	0.11	19.40	686	3.2
ZZ32162		<0.005	0.14	0.77	46	0.11	5.62	167	0.9
ZZ32163		<0.005	0.19	1.36	50	<0.05	8.46	252	2.1
ZZ32164		<0.005	0.16	1.99	33	<0.05	7.05	207	1.9
ZZ32165		<0.005	0.13	3.09	52	0.09	7.98	186	1.4
ZZ32166		<0.005	0.21	2.76	145	0.08	14.40	488	1.7
ZZ32167		<0.005	0.16	2.81	115	0.05	15.55	371	1.8
ZZ32168		0.007	0.17	3.82	73	0.11	6.28	141	0.9
ZZ32169		<0.005	0.14	4.33	48	0.06	7.80	140	1.0
ZZ32170		<0.005	0.11	2.66	31	<0.05	7.79	165	1.0
ZZ32171		<0.005	0.17	5.33	71	<0.05	12.70	233	1.2
ZZ32172		<0.005	0.18	4.64	102	0.05	13.05	269	1.6
ZZ32173		<0.005	0.21	3.52	73	0.09	6.33	307	1.9
ZZ32174		<0.005	0.14	2.00	64	0.05	7.79	213	1.1
ZZ32175		<0.005	0.17	3.46	90	0.05	11.75	328	1.4
ZZ32176		<0.005	0.20	3.96	74	0.05	12.75	318	1.7
ZZ32177		<0.005	0.23	5.19	154	0.06	18.25	308	2.1
ZZ32178		<0.005	0.19	3.94	124	0.05	17.65	269	2.1
ZZ32179		<0.005	0.16	2.56	57	0.05	12.45	372	2.1
ZZ32180		<0.005	0.16	7.68	85	0.06	10.10	367	2.0
ZZ32181		<0.005	0.22	5.12	89	0.06	10.70	377	1.4
ZZ32182		0.005	0.14	1.43	43	0.10	15.65	151	1.7
ZZ32183		0.005	0.38	1.23	42	0.16	8.73	188	1.2
ZZ32184		0.008	0.18	1.18	42	0.08	9.64	178	2.1
ZZ32185		0.005	0.09	1.12	29	0.06	5.82	135	1.1
ZZ32186		<0.005	0.34	4.88	99	<0.05	17.85	496	1.6
ZZ32187		0.010	0.14	2.24	54	0.09	8.38	178	1.5
ZZ32188		0.007	0.54	5.29	293	0.22	27.6	1000	1.6
ZZ32189		0.006	0.28	3.25	293	0.23	23.8	464	1.3
ZZ32190		0.005	0.31	1.09	106	0.15	20.3	234	1.0



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ32191		0.12	0.004	0.35	0.89	12.4	<0.2	<10	420	0.69	0.18	2.12	1.59	9.71	7.6	17
ZZ32192		0.18	0.005	0.19	1.19	10.5	<0.2	<10	260	0.86	0.26	0.84	0.53	11.80	11.4	21
ZZ32193		0.18	0.005	0.24	1.29	12.8	<0.2	<10	430	0.88	0.27	1.07	0.60	10.95	13.1	21
ZZ32194		0.14	0.004	0.19	1.19	13.0	<0.2	<10	320	0.85	0.25	1.31	0.57	10.00	12.6	21
ZZ32195		0.10	0.005	0.21	1.20	11.8	<0.2	<10	450	0.67	0.24	1.54	0.67	10.95	11.7	21
ZZ32196		0.22	0.006	0.11	1.36	13.8	<0.2	<10	390	0.76	0.27	0.88	0.16	11.10	12.1	25
ZZ32197		0.14	0.028	0.21	1.14	11.7	<0.2	<10	500	1.07	0.23	1.99	0.57	9.15	12.4	19
ZZ32198		0.18	0.012	0.15	1.12	14.6	<0.2	<10	570	0.73	0.23	2.04	0.42	9.68	10.5	19
ZZ32199		0.12	0.012	0.58	0.69	11.3	<0.2	10	430	0.58	0.16	2.12	2.54	15.00	8.5	16
ZZ32200		0.20	0.003	0.39	1.01	13.2	<0.2	<10	380	0.74	0.21	1.28	1.44	11.35	11.9	19
ZZ32201		0.20	0.005	0.34	1.03	13.4	<0.2	<10	320	0.76	0.22	1.53	1.23	11.65	10.7	19
ZZ32202		0.26	0.002	0.27	1.24	13.6	<0.2	<10	350	0.83	0.24	1.14	0.71	14.65	11.8	22
ZZ32203		0.30	0.003	0.13	1.37	12.6	<0.2	<10	230	0.75	0.28	0.90	0.30	11.70	11.5	23
ZZ32204		0.22	0.002	0.11	1.59	13.3	<0.2	<10	270	0.78	0.29	0.73	0.18	13.45	11.5	27
ZZ32205		0.22	0.002	0.13	1.56	13.3	<0.2	<10	280	0.80	0.28	0.72	0.47	14.30	14.5	27
ZZ32206		0.24	0.006	0.22	1.30	12.0	<0.2	<10	320	0.74	0.25	1.19	0.73	11.80	9.8	22
ZZ32207		0.24	0.003	0.43	1.44	17.2	<0.2	<10	370	0.95	0.30	1.20	1.61	13.00	16.0	26
ZZ32208		0.24	0.002	0.33	1.12	19.9	<0.2	<10	450	0.78	0.22	1.30	1.84	12.05	13.5	21
ZZ32209		0.20	0.004	0.46	1.00	9.5	<0.2	<10	530	0.70	0.20	1.66	1.85	11.80	13.6	20
ZZ32210		0.34	0.003	0.46	1.16	15.8	<0.2	<10	670	0.80	0.24	0.60	1.89	15.85	9.4	23
ZZ32211		0.18	0.006	1.29	1.11	34.2	<0.2	<10	550	0.68	0.26	1.61	1.59	25.4	8.9	29
ZZ32212		0.22	0.003	0.39	0.89	42.8	<0.2	<10	420	0.52	0.24	5.32	1.23	15.85	7.8	19
ZZ32213		0.20	0.003	0.18	0.49	242	<0.2	<10	260	0.60	0.28	1.51	1.14	7.70	7.1	43
ZZ32214		0.16	<0.001	0.23	1.46	113.5	<0.2	<10	230	0.74	0.27	0.25	0.68	27.9	10.1	32
ZZ32215		0.14	0.005	0.50	0.74	62.6	<0.2	<10	240	0.55	0.22	4.12	1.44	11.95	6.0	17
ZZ32216		0.18	<0.001	0.17	0.93	219	<0.2	<10	310	0.45	0.14	0.71	1.43	15.65	6.6	21
ZZ32217		0.18	0.006	0.39	0.82	514	<0.2	<10	270	0.59	0.14	4.71	2.01	13.15	8.8	23
ZZ32218		0.10	0.007	0.69	0.79	324	<0.2	10	360	0.65	0.12	4.96	0.65	7.10	4.8	28
ZZ32219		0.12	0.010	0.28	0.82	211	<0.2	<10	240	0.46	0.23	1.87	3.25	9.37	5.3	22
ZZ32220		0.20	0.004	0.23	1.37	50.9	<0.2	<10	540	0.55	0.25	1.44	0.55	18.05	8.2	24
ZZ32221		0.12	0.008	0.13	0.63	9.4	<0.2	<10	420	0.70	0.23	2.44	0.60	6.93	7.9	14
ZZ32222		0.20	0.005	0.30	1.86	35	<0.2	10	660	1.07	0.21	19.15	13.40	24.1	22.8	88
ZZ32223		0.10	0.011	1.33	0.63	17.6	<0.2	<10	550	0.56	0.19	1.80	1.04	11.30	5.3	21
ZZ32224		0.10	0.006	1.14	0.69	16.6	<0.2	10	1000	0.48	0.17	2.48	0.45	7.27	4.5	19
ZZ32225		0.08	0.002	1.41	0.49	13.5	<0.2	10	1220	0.47	0.16	3.58	1.42	9.58	5.1	16
ZZ32226		0.14	0.005	1.15	0.57	13.8	<0.2	10	2240	0.49	0.15	3.15	1.45	12.65	6.7	20
ZZ32227		0.10	0.014	0.82	0.39	10.5	<0.2	<10	1000	0.66	0.12	2.20	3.08	14.45	6.3	10
ZZ32228		0.22	0.005	0.57	0.89	31.5	<0.2	<10	1290	0.72	0.23	0.19	4.43	9.50	6.4	22
ZZ32229		0.28	0.002	0.15	2.12	21.1	<0.2	<10	670	0.98	0.19	0.22	0.97	38.7	11.2	29
ZZ32230		0.16	0.002	0.43	1.69	17.5	<0.2	<10	610	1.04	0.16	1.64	1.11	38.7	12.8	26

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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ32191		0.90	34.9	2.21	2.40	<0.05	0.04	0.23	0.025	0.07	4.6	9.5	0.34	387	3.28	0.01
ZZ32192		1.17	27.7	3.20	3.30	<0.05	0.05	0.26	0.028	0.10	5.2	18.7	0.42	385	2.36	0.01
ZZ32193		0.87	32.8	3.61	3.64	<0.05	0.04	0.23	0.038	0.09	4.7	20.3	0.40	520	2.94	0.01
ZZ32194		0.92	31.9	3.49	3.40	<0.05	0.05	0.30	0.039	0.10	4.2	20.5	0.44	384	2.75	0.01
ZZ32195		0.67	32.1	3.09	3.37	<0.05	0.05	0.28	0.034	0.09	4.8	17.1	0.41	383	1.81	0.01
ZZ32196		0.72	27.3	3.58	3.86	<0.05	0.04	0.25	0.039	0.08	4.7	19.4	0.41	569	2.27	0.01
ZZ32197		0.73	40.5	2.86	2.79	<0.05	0.04	0.58	0.033	0.08	4.5	15.9	0.34	626	2.82	0.03
ZZ32198		0.63	31.0	3.99	3.00	<0.05	0.04	0.50	0.039	0.09	4.2	17.6	0.88	463	2.00	0.01
ZZ32199		0.64	40.9	2.23	2.00	<0.05	0.05	0.19	0.024	0.08	6.8	8.9	0.34	348	4.52	0.01
ZZ32200		0.60	32.6	3.04	2.91	<0.05	0.04	0.24	0.032	0.09	5.0	14.9	0.34	760	2.90	0.01
ZZ32201		0.66	31.7	2.78	2.83	<0.05	0.04	0.32	0.029	0.09	5.0	16.5	0.34	477	2.16	0.01
ZZ32202		0.80	34.6	3.43	3.52	0.05	0.05	0.27	0.035	0.10	6.3	19.2	0.40	789	1.72	0.01
ZZ32203		0.71	30.1	3.51	3.91	<0.05	0.05	0.23	0.036	0.10	5.2	21.3	0.47	446	1.32	0.01
ZZ32204		0.66	28.1	3.88	4.22	<0.05	0.05	0.15	0.030	0.11	6.2	21.9	0.51	469	1.35	0.01
ZZ32205		0.78	32.7	3.82	4.34	<0.05	0.06	0.12	0.032	0.12	6.0	21.9	0.49	846	1.36	0.01
ZZ32206		0.70	30.9	4.02	3.28	<0.05	0.05	0.25	0.032	0.09	4.9	17.8	0.39	1200	1.66	0.01
ZZ32207		0.93	39.9	4.50	4.28	<0.05	0.06	0.25	0.042	0.11	5.8	22.2	0.43	1600	3.89	0.01
ZZ32208		0.63	38.3	4.65	2.95	<0.05	0.05	0.21	0.034	0.09	5.4	15.8	0.33	474	4.85	0.01
ZZ32209		0.71	36.1	3.54	2.82	<0.05	0.04	0.25	0.031	0.09	5.3	14.6	0.28	1250	2.86	0.01
ZZ32210		0.82	45.3	2.95	3.29	<0.05	0.03	0.27	0.033	0.10	7.2	15.8	0.28	311	4.11	0.01
ZZ32211		0.45	27.5	3.44	2.41	0.06	0.03	0.12	0.047	0.05	16.0	5.5	0.17	574	1.69	0.01
ZZ32212		0.95	19.5	2.24	2.21	0.06	0.03	0.06	0.026	0.10	16.0	6.6	0.21	328	1.18	0.01
ZZ32213		0.58	51.8	2.64	2.05	0.07	0.06	0.27	0.054	0.12	10.7	2.4	0.05	133	8.06	<0.01
ZZ32214		1.57	27.5	3.34	4.21	0.05	0.03	0.02	0.039	0.11	9.9	11.6	0.30	378	3.78	0.01
ZZ32215		1.46	22.8	1.75	2.02	0.06	0.07	0.06	0.028	0.09	15.0	4.3	0.11	347	2.65	0.01
ZZ32216		0.81	15.3	2.02	2.60	0.05	0.05	0.05	0.021	0.04	12.3	5.4	0.12	554	6.59	0.01
ZZ32217		0.43	23.0	2.66	2.44	0.10	0.08	0.14	0.024	0.11	31.0	5.1	0.13	273	6.67	0.01
ZZ32218		0.58	21.9	1.74	1.92	0.08	0.07	0.29	0.018	0.06	18.9	5.7	0.08	228	1.94	0.01
ZZ32219		0.93	17.5	1.78	2.24	0.06	0.09	0.15	0.029	0.08	12.7	4.7	0.12	177	2.31	0.01
ZZ32220		1.19	16.8	2.39	4.22	<0.05	0.03	0.14	0.026	0.05	9.6	10.6	0.26	580	1.11	0.01
ZZ32221		0.59	23.7	2.37	1.48	<0.05	0.04	0.09	0.033	0.07	4.7	3.8	0.08	203	1.53	0.01
ZZ32222		1.94	32.5	3.98	4.55	0.12	0.11	0.24	0.041	0.15	31.0	9.2	0.19	1060	6.38	0.01
ZZ32223		0.32	33.4	1.81	1.83	0.06	0.03	0.13	0.031	0.08	8.5	5.0	0.10	160	4.25	0.01
ZZ32224		0.37	25.8	1.63	1.87	0.05	0.05	0.19	0.025	0.06	5.2	5.2	0.11	125	3.98	0.01
ZZ32225		0.23	35.3	1.51	1.47	0.05	0.06	0.23	0.019	0.06	7.5	4.1	0.10	182	2.31	0.01
ZZ32226		0.37	31.5	1.80	1.71	0.06	0.07	0.22	0.022	0.07	8.0	3.9	0.10	312	3.83	<0.01
ZZ32227		0.50	70.2	1.75	1.41	0.06	0.04	0.26	0.022	0.06	6.2	1.4	0.07	203	4.28	0.01
ZZ32228		0.77	51.7	2.58	3.25	0.05	<0.02	0.16	0.032	0.08	4.5	5.2	0.05	112	34.4	0.01
ZZ32229		0.98	22.8	3.99	5.94	0.07	0.03	0.02	0.038	0.11	15.9	25.8	0.52	304	3.25	0.01
ZZ32230		0.69	44.3	3.88	4.60	0.08	0.07	0.12	0.040	0.14	18.7	22.9	0.59	387	3.62	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ32191	0.05	0.26	44.0	730	12.5	8.3	0.003	0.10	1.63	2.4	2.2	0.3	101.0	<0.01	0.05	0.7
ZZ32192	0.05	0.19	35.4	720	16.8	8.4	0.001	0.04	0.76	4.6	2.1	0.5	35.8	<0.01	0.06	3.1
ZZ32193	0.05	0.26	37.1	710	18.8	9.6	0.003	0.05	0.97	5.6	1.2	0.5	50.5	<0.01	0.03	2.6
ZZ32194	0.05	0.22	42.5	700	18.2	9.0	0.005	0.05	0.62	5.1	1.3	0.5	56.8	<0.01	0.05	2.6
ZZ32195	0.05	0.28	41.4	790	15.5	7.9	0.002	0.06	0.58	4.5	1.6	0.4	41.7	<0.01	0.05	2.5
ZZ32196	0.05	0.32	38.7	510	17.2	8.4	0.002	0.03	0.41	4.5	1.0	0.5	34.0	<0.01	0.03	2.9
ZZ32197	0.05	0.19	41.2	740	13.9	8.6	0.005	0.08	0.50	4.5	2.2	0.5	65.0	<0.01	0.03	0.9
ZZ32198	0.05	0.17	37.6	660	19.3	7.6	0.003	0.05	0.51	5.4	1.9	0.5	45.8	<0.01	0.02	2.4
ZZ32199	0.05	0.17	64.5	1170	11.5	6.9	0.013	0.13	2.09	3.4	3.8	0.4	86.1	<0.01	0.03	1.5
ZZ32200	0.05	0.22	55.0	870	14.1	8.2	0.007	0.15	1.12	4.2	1.9	0.5	110.0	<0.01	0.04	1.8
ZZ32201	0.05	0.21	46.4	770	15.5	8.4	0.008	0.11	0.89	4.1	2.4	0.5	127.0	<0.01	0.05	1.9
ZZ32202	0.05	0.35	42.1	740	15.6	9.4	0.002	0.08	0.73	4.7	1.6	0.6	80.1	<0.01	0.05	2.3
ZZ32203	0.05	0.34	37.2	660	17.0	8.3	0.001	0.05	0.54	5.1	1.0	0.5	46.6	<0.01	0.04	3.0
ZZ32204	0.05	0.39	34.2	650	15.2	8.3	0.001	0.03	0.47	5.0	1.0	0.5	38.1	<0.01	0.03	3.1
ZZ32205	0.05	0.40	40.2	670	16.5	8.9	0.001	0.04	0.51	5.1	0.9	0.5	41.9	<0.01	0.05	3.2
ZZ32206	0.05	0.25	40.7	820	18.1	7.9	0.004	0.09	0.62	4.6	1.7	0.5	71.6	<0.01	0.03	2.5
ZZ32207	0.05	0.33	61.2	890	17.8	10.9	0.008	0.10	1.02	5.9	2.5	0.6	67.3	<0.01	0.04	2.8
ZZ32208	0.05	0.22	54.2	930	16.9	7.2	0.009	0.10	1.27	4.7	2.2	0.5	63.0	<0.01	0.04	2.6
ZZ32209	0.05	0.24	59.2	940	13.6	8.3	0.017	0.15	1.12	4.5	2.7	0.4	86.6	<0.01	0.04	1.9
ZZ32210	0.05	0.29	56.6	1030	15.6	8.8	0.004	0.04	1.37	5.2	3.0	0.5	47.2	<0.01	0.05	2.9
ZZ32211	0.05	0.27	50.2	1270	17.1	5.8	<0.001	0.09	0.97	2.1	3.3	0.5	33.9	<0.01	0.17	0.5
ZZ32212	0.05	0.27	29.8	910	13.0	7.0	<0.001	0.07	0.61	2.0	1.5	0.5	51.9	<0.01	0.15	0.7
ZZ32213	0.05	0.09	141.0	1130	17.6	4.6	0.004	0.03	1.54	2.9	5.6	0.9	21.8	<0.01	0.06	1.6
ZZ32214	0.05	0.49	48.2	710	20.1	14.7	<0.001	0.03	0.91	3.7	2.2	0.6	18.8	<0.01	0.08	1.8
ZZ32215	0.05	0.23	30.3	1130	13.8	10.0	0.002	0.10	0.82	2.3	2.5	0.4	32.9	<0.01	0.11	0.7
ZZ32216	0.05	0.25	43.4	700	13.9	5.9	0.001	0.04	1.70	2.7	2.0	0.4	21.2	<0.01	0.04	0.7
ZZ32217	0.05	0.20	75.0	1930	11.8	6.6	0.002	0.09	2.98	2.4	4.5	0.4	48.5	<0.01	0.03	0.5
ZZ32218	0.05	0.12	20.3	1900	6.8	5.4	0.021	0.16	0.86	1.9	4.5	0.7	64.5	<0.01	0.02	0.5
ZZ32219	0.05	0.26	34.7	1530	14.0	11.8	<0.001	0.14	0.92	2.8	3.3	0.5	31.2	<0.01	0.08	1.1
ZZ32220	0.05	0.63	19.7	1030	17.4	9.0	0.001	0.08	0.47	2.4	1.1	0.6	28.3	<0.01	0.03	0.8
ZZ32221	0.05	0.08	30.7	840	13.5	8.0	0.001	0.15	0.43	2.8	1.3	0.4	34.7	<0.01	0.07	0.9
ZZ32222	0.05	0.27	791	9040	13.5	15.5	0.005	0.04	1.79	7.0	5.2	1.1	93.8	<0.01	0.17	2.6
ZZ32223	0.05	0.17	73.2	930	10.1	5.6	0.003	0.09	1.17	2.9	4.9	0.5	34.3	<0.01	0.24	1.0
ZZ32224	0.05	0.16	51.2	630	10.6	5.0	0.005	0.10	1.14	2.3	4.3	0.5	38.2	<0.01	0.11	0.8
ZZ32225	0.05	0.14	51.5	1010	9.3	5.0	0.008	0.14	1.30	2.1	4.8	0.6	55.0	<0.01	0.09	0.7
ZZ32226	0.05	0.12	48.8	1940	9.4	5.1	0.007	0.13	1.80	2.3	3.5	0.4	73.2	<0.01	0.08	0.9
ZZ32227	0.05	0.11	79.7	1310	8.2	5.1	0.004	0.12	3.16	4.3	4.4	0.5	101.5	<0.01	0.08	2.4
ZZ32228	0.05	0.31	98.4	880	14.7	8.2	0.001	0.10	10.60	2.7	6.4	0.8	83.8	<0.01	0.12	1.0
ZZ32229	0.05	0.51	35.2	900	19.8	12.4	0.001	0.01	1.12	4.0	0.9	0.8	17.1	<0.01	0.02	4.1
ZZ32230	0.05	0.38	48.0	1580	19.4	10.0	0.002	0.05	1.35	6.3	2.2	0.6	48.3	<0.01	0.03	2.6

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32191		<0.005	0.13	2.61	66	0.05	8.30	175	1.1
ZZ32192		<0.005	0.11	1.16	42	<0.05	9.23	134	1.5
ZZ32193		<0.005	0.13	1.06	43	0.07	10.30	132	1.6
ZZ32194		<0.005	0.13	1.05	34	<0.05	10.00	149	1.4
ZZ32195		<0.005	0.13	1.14	38	0.05	10.05	133	1.3
ZZ32196		<0.005	0.11	0.77	36	0.11	7.85	113	1.1
ZZ32197		<0.005	0.14	3.21	30	<0.05	15.10	122	0.8
ZZ32198		<0.005	0.11	0.95	31	<0.05	9.52	163	1.1
ZZ32199		<0.005	0.17	3.67	106	0.09	15.70	400	1.6
ZZ32200		<0.005	0.13	2.96	68	<0.05	12.15	290	1.5
ZZ32201		<0.005	0.12	2.80	53	0.07	10.70	206	1.3
ZZ32202		0.005	0.11	2.37	47	0.08	10.20	161	1.5
ZZ32203		0.005	0.11	0.85	35	0.05	8.92	136	1.4
ZZ32204		0.007	0.09	0.86	40	0.11	8.32	129	1.2
ZZ32205		0.008	0.10	0.84	38	0.08	8.57	143	1.5
ZZ32206		<0.005	0.10	1.78	48	0.05	9.83	184	1.2
ZZ32207		<0.005	0.16	2.24	67	0.06	11.90	320	1.7
ZZ32208		<0.005	0.12	2.61	81	0.05	12.50	334	1.5
ZZ32209		<0.005	0.15	2.58	71	<0.05	12.20	286	1.6
ZZ32210		<0.005	0.17	3.45	89	0.06	15.35	293	1.1
ZZ32211		0.008	0.16	0.95	62	0.11	28.6	234	0.6
ZZ32212		0.008	0.15	0.50	38	0.11	29.6	143	0.9
ZZ32213		<0.005	0.40	2.51	81	0.05	39.4	469	1.9
ZZ32214		0.010	0.32	1.01	64	0.14	10.70	208	0.6
ZZ32215		0.005	0.15	1.13	31	0.08	29.3	144	1.7
ZZ32216		0.007	0.20	2.27	54	0.09	22.8	178	1.3
ZZ32217		0.005	0.23	4.80	51	0.07	68.1	321	2.0
ZZ32218		<0.005	0.18	5.80	33	0.07	38.2	76	1.8
ZZ32219		0.005	0.35	2.45	39	0.07	35.1	312	2.3
ZZ32220		0.014	0.16	2.09	52	0.17	11.25	104	0.8
ZZ32221		<0.005	0.13	1.39	21	<0.05	13.50	108	1.5
ZZ32222		<0.005	0.49	20.8	231	0.08	91.4	2840	2.4
ZZ32223		<0.005	0.14	2.27	54	0.07	26.7	260	1.3
ZZ32224		<0.005	0.12	2.00	53	0.08	15.05	164	1.7
ZZ32225		<0.005	0.20	4.74	50	0.05	20.9	174	1.9
ZZ32226		<0.005	0.25	4.94	87	0.05	18.75	215	1.4
ZZ32227		<0.005	0.20	3.24	82	<0.05	21.8	301	1.2
ZZ32228		0.007	1.27	2.75	426	0.23	18.55	565	<0.5
ZZ32229		0.009	0.22	1.08	86	0.09	7.97	197	1.0
ZZ32230		0.006	0.20	2.02	66	0.08	16.65	183	1.9



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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ32231		0.12	0.002	0.40	1.43	13.1	<0.2	<10	560	0.82	0.14	1.57	1.35	30.3	10.9	22
ZZ32232		0.12	0.004	0.54	1.19	16.0	<0.2	<10	630	0.83	0.15	1.91	1.38	28.3	10.2	21
ZZ32233		0.18	0.002	0.87	1.15	19.6	<0.2	<10	580	1.10	0.16	1.50	1.91	28.2	12.4	23
ZZ32234		0.14	0.003	0.27	0.74	18.5	<0.2	<10	450	0.87	0.17	2.66	1.01	23.5	9.7	17
ZZ32235		0.22	0.003	0.38	1.07	17.8	<0.2	<10	550	0.85	0.17	1.93	1.01	21.8	10.1	19
ZZ32236		0.10	0.003	0.27	0.63	17.2	<0.2	10	360	0.72	0.13	3.46	0.97	19.00	8.2	12
ZZ32237		0.16	0.002	0.21	0.68	20.5	<0.2	10	340	0.85	0.20	3.26	0.63	17.85	9.7	12
ZZ32238		0.14	0.002	0.22	1.01	20.2	<0.2	<10	350	0.95	0.25	0.95	0.32	16.75	10.2	16
ZZ32239		0.16	0.002	0.24	0.98	13.8	<0.2	<10	280	0.94	0.21	1.18	0.48	17.40	11.7	16
ZZ32240		0.12	0.001	0.24	0.98	18.0	<0.2	10	320	1.03	0.28	1.79	0.38	12.70	11.2	15
ZZ32241		0.12	0.001	0.18	0.87	12.1	<0.2	10	340	0.77	0.20	2.99	0.30	9.60	8.1	13
ZZ32242		0.18	0.003	0.13	1.07	6.6	<0.2	10	260	0.80	0.19	3.85	0.24	12.95	8.1	14
ZZ32243		0.22	0.002	0.19	0.95	13.2	<0.2	10	190	0.96	0.29	1.87	0.33	14.30	9.5	17
ZZ32244		0.20	0.002	0.18	0.88	22.2	<0.2	<10	300	1.06	0.29	2.06	0.41	12.60	12.6	16
ZZ32245		0.18	0.002	0.17	0.82	22.8	<0.2	<10	300	0.91	0.28	2.21	0.32	11.15	11.4	14
ZZ32246		0.24	0.003	0.15	0.86	18.5	<0.2	<10	260	0.92	0.28	1.88	0.32	11.15	11.6	15
ZZ32247		0.18	0.002	0.12	0.92	16.5	<0.2	10	270	1.01	0.29	1.37	0.24	17.40	11.1	15
ZZ32248		0.18	0.001	0.07	0.96	12.9	<0.2	<10	250	0.90	0.30	0.91	0.12	11.10	8.2	14
ZZ32249		0.12	0.002	0.15	0.55	11.4	<0.2	<10	290	0.75	0.28	1.87	0.21	16.10	10.9	8
ZZ32250		0.14	<0.001	0.04	0.73	13.0	<0.2	<10	490	0.77	0.31	0.64	0.09	8.05	9.1	10
ZZ32251		0.16	0.002	0.13	1.23	15.1	<0.2	<10	430	0.96	0.26	1.16	0.40	21.9	10.9	20
ZZ32252		0.16	0.002	0.17	1.01	19.1	<0.2	10	430	1.23	0.31	1.94	0.54	20.8	12.5	16
ZZ32253		0.14	0.002	0.12	1.03	13.7	<0.2	<10	260	0.85	0.26	0.98	0.30	14.15	9.9	17
ZZ32254		0.22	0.001	0.04	1.33	16.8	<0.2	<10	330	1.18	0.31	0.29	0.16	16.40	10.2	19
ZZ32255		0.16	<0.001	0.12	0.80	18.1	<0.2	10	280	1.03	0.27	2.34	0.29	14.45	9.3	13
ZZ32256		0.18	0.003	0.12	1.05	16.5	<0.2	<10	250	1.02	0.30	0.87	0.27	16.15	10.2	19
ZZ32257		0.18	0.001	0.11	0.80	14.8	<0.2	10	310	0.91	0.25	1.59	0.22	15.70	9.8	13
ZZ32258		0.14	0.001	0.09	0.95	3.9	<0.2	10	380	0.75	0.20	1.73	0.39	14.00	4.2	15
ZZ32259		0.14	<0.001	0.02	1.57	15.1	<0.2	<10	410	0.77	0.24	0.10	0.10	21.3	8.8	22
ZZ32260		0.10	0.001	0.04	1.06	13.7	<0.2	<10	550	0.57	0.21	1.29	0.35	12.85	8.3	15
ZZ32261		0.10	0.001	0.09	0.74	14.0	<0.2	10	600	0.79	0.20	2.55	0.25	10.55	7.8	11
ZZ32262		0.20	0.002	0.11	0.92	16.9	<0.2	10	480	0.91	0.22	2.13	0.36	11.00	7.7	14
ZZ32263		0.22	0.002	0.12	0.65	11.0	<0.2	10	380	0.79	0.23	1.52	0.38	8.76	9.7	10
ZZ32264		0.16	0.004	0.10	0.67	7.0	<0.2	10	390	0.71	0.18	2.50	0.27	8.33	6.4	9
ZZ32265		0.20	0.001	0.08	0.88	13.2	<0.2	<10	320	1.01	0.28	0.64	0.38	14.40	13.9	14
ZZ32266		0.26	0.001	0.11	0.88	12.1	<0.2	<10	360	0.92	0.26	0.92	0.30	10.45	12.6	15
ZZ32267		0.16	0.001	0.10	0.83	11.1	<0.2	<10	250	0.76	0.25	1.07	0.21	8.17	10.8	13
ZZ32268		0.14	0.002	0.08	0.74	12.8	<0.2	<10	230	0.82	0.26	0.72	0.26	9.07	13.5	12
ZZ32269		0.20	0.002	0.24	0.79	24.4	<0.2	<10	500	0.66	0.20	1.61	0.89	15.45	11.9	15
ZZ32270		0.18	0.002	0.21	1.09	17.0	<0.2	<10	280	0.90	0.24	1.62	0.74	16.40	12.1	19

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ32231		0.62	33.5	3.22	3.85	0.07	0.07	0.09	0.032	0.13	12.6	16.9	0.50	339	4.16	0.01
ZZ32232		0.55	38.3	2.99	3.40	0.07	0.05	0.24	0.031	0.10	13.1	14.3	0.38	385	3.35	0.01
ZZ32233		0.63	43.7	3.13	3.48	0.08	0.05	0.47	0.038	0.10	13.2	14.1	0.35	412	3.88	0.01
ZZ32234		0.36	27.1	2.66	2.18	0.05	0.06	1.29	0.031	0.07	8.9	8.8	0.66	326	1.84	0.01
ZZ32235		0.38	30.4	3.10	2.95	0.05	0.05	0.38	0.030	0.08	9.3	11.2	0.37	406	2.71	0.01
ZZ32236		0.50	27.5	1.98	1.76	<0.05	0.06	0.99	0.027	0.07	7.6	6.3	0.64	352	1.47	0.01
ZZ32237		0.69	30.3	3.35	1.80	<0.05	0.03	0.91	0.031	0.10	7.0	7.1	1.06	521	1.61	0.01
ZZ32238		0.82	29.9	3.46	2.72	<0.05	0.05	0.43	0.033	0.09	6.6	14.7	0.29	421	1.55	0.01
ZZ32239		1.52	28.1	2.94	2.86	0.05	0.06	0.34	0.030	0.10	7.0	18.3	0.37	427	1.81	0.01
ZZ32240		1.31	38.9	3.18	2.56	<0.05	0.05	0.50	0.033	0.11	5.7	17.1	0.50	418	1.29	0.01
ZZ32241		1.07	31.2	2.77	2.17	<0.05	0.05	0.37	0.031	0.10	4.6	12.8	0.47	279	1.07	0.02
ZZ32242		1.29	32.5	2.35	2.72	0.06	0.04	0.17	0.024	0.08	4.9	26.3	0.38	508	0.39	0.02
ZZ32243		1.23	40.8	3.02	2.73	0.05	0.06	0.72	0.038	0.12	6.3	16.6	0.86	264	1.21	0.02
ZZ32244		1.19	37.7	3.87	2.56	<0.05	0.05	0.75	0.041	0.10	5.5	12.0	1.04	416	2.08	0.02
ZZ32245		1.38	36.1	3.86	2.18	<0.05	0.04	0.97	0.036	0.11	4.9	11.0	0.96	397	1.60	0.01
ZZ32246		1.10	36.0	3.82	2.28	<0.05	0.04	0.73	0.035	0.11	4.6	11.0	0.86	393	1.47	0.01
ZZ32247		1.10	28.7	3.53	2.54	<0.05	0.06	0.55	0.038	0.09	7.3	12.2	0.39	395	0.90	0.01
ZZ32248		0.74	22.6	3.46	2.57	<0.05	0.04	0.30	0.036	0.09	4.8	10.4	0.19	249	0.73	0.01
ZZ32249		0.76	26.2	3.34	1.29	<0.05	0.06	0.51	0.036	0.08	6.2	4.9	0.12	329	0.58	0.01
ZZ32250		0.75	26.4	3.08	1.75	<0.05	0.03	0.19	0.031	0.10	3.6	9.9	0.11	133	0.70	0.01
ZZ32251		0.71	23.4	3.23	3.40	<0.05	0.04	0.82	0.033	0.08	9.3	14.9	0.43	601	1.57	0.01
ZZ32252		1.04	42.4	3.11	3.61	0.07	0.06	1.36	0.045	0.09	9.1	15.1	0.73	424	2.18	0.01
ZZ32253		0.81	19.3	3.22	2.88	<0.05	0.04	0.50	0.033	0.09	5.9	15.0	0.35	377	1.21	0.01
ZZ32254		0.71	25.7	3.95	3.29	<0.05	0.03	0.82	0.037	0.09	6.1	14.2	0.27	355	1.26	0.01
ZZ32255		1.14	29.8	3.25	2.43	<0.05	0.05	1.53	0.033	0.10	6.9	11.6	0.80	367	1.16	0.01
ZZ32256		1.08	35.2	3.87	2.98	<0.05	0.07	0.70	0.035	0.10	7.1	14.4	0.53	297	1.29	0.01
ZZ32257		0.79	25.9	3.36	2.27	0.05	0.03	0.68	0.030	0.09	6.7	10.7	0.46	542	1.06	0.01
ZZ32258		0.56	23.6	1.47	2.15	<0.05	0.05	0.62	0.025	0.09	6.0	11.5	0.41	99	0.21	0.01
ZZ32259		0.89	12.3	3.25	3.82	<0.05	0.07	0.40	0.022	0.06	7.8	13.4	0.26	309	0.90	0.01
ZZ32260		0.51	11.9	2.70	2.88	<0.05	0.04	0.40	0.027	0.08	5.3	11.5	0.37	613	0.74	0.01
ZZ32261		0.63	21.3	2.41	1.80	<0.05	0.05	0.75	0.022	0.11	4.6	6.9	0.33	539	0.64	0.01
ZZ32262		1.01	24.7	3.31	2.20	<0.05	0.04	0.69	0.028	0.11	6.1	10.6	0.88	447	1.36	0.01
ZZ32263		0.90	30.1	2.95	1.77	<0.05	0.04	0.33	0.034	0.10	3.6	7.4	0.28	288	1.18	0.01
ZZ32264		0.78	25.8	2.10	1.75	<0.05	0.05	0.24	0.026	0.09	3.8	7.9	0.28	149	0.66	0.01
ZZ32265		0.73	27.3	3.28	2.52	<0.05	0.04	0.23	0.034	0.07	5.5	13.3	0.31	494	1.42	<0.01
ZZ32266		0.82	31.6	3.15	2.56	<0.05	0.05	0.14	0.038	0.10	4.5	13.2	0.35	597	1.48	0.01
ZZ32267		0.88	28.4	3.01	2.50	<0.05	0.06	0.12	0.038	0.09	3.4	12.1	0.31	321	1.43	<0.01
ZZ32268		0.78	27.9	3.54	2.22	<0.05	0.04	0.15	0.035	0.09	3.5	11.0	0.27	497	1.59	<0.01
ZZ32269		0.93	30.4	2.97	2.52	0.06	0.05	0.20	0.032	0.08	6.7	14.8	0.89	471	2.73	<0.01
ZZ32270		1.23	34.4	3.22	3.50	0.05	0.07	0.25	0.037	0.10	7.2	21.4	0.94	186	1.91	0.01



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ32231		0.32	39.4	1360	15.7	8.8	<0.001	0.06	1.86	3.9	1.8	0.5	42.0	<0.01	<0.01	2.2
ZZ32232		0.30	46.5	1210	14.6	7.4	0.002	0.06	1.71	4.0	2.4	0.5	53.1	<0.01	0.03	1.7
ZZ32233		0.31	56.6	1160	17.6	8.6	0.002	0.05	2.00	5.1	2.7	0.6	44.9	<0.01	0.01	2.3
ZZ32234		0.20	32.0	820	16.5	5.1	0.002	0.05	0.94	4.2	2.1	0.5	70.7	<0.01	0.01	2.8
ZZ32235		0.32	34.2	940	16.2	5.3	0.002	0.05	1.32	4.0	1.7	0.5	49.7	<0.01	0.04	1.9
ZZ32236		0.19	28.0	820	13.2	5.3	0.001	0.08	1.08	2.9	2.1	0.5	77.5	<0.01	<0.01	1.2
ZZ32237		0.17	28.8	780	19.7	5.2	<0.001	0.05	0.89	4.8	0.9	0.5	50.4	<0.01	0.02	2.3
ZZ32238		0.30	30.2	420	23.6	6.9	0.001	0.03	0.69	5.3	0.7	1.0	30.2	<0.01	0.02	2.9
ZZ32239		0.27	32.3	680	22.2	8.1	0.001	0.04	0.85	4.8	1.2	0.6	37.8	<0.01	0.03	2.6
ZZ32240		0.26	34.2	440	26.5	7.6	<0.001	0.06	0.65	5.5	1.1	0.5	76.2	<0.01	0.03	2.0
ZZ32241		0.22	27.3	680	19.6	7.7	0.001	0.10	0.61	4.2	1.2	0.5	77.8	<0.01	0.02	1.4
ZZ32242		0.21	23.6	670	19.4	7.1	0.002	0.12	0.40	3.4	1.6	0.4	127.0	<0.01	<0.01	0.9
ZZ32243		0.29	31.2	690	26.1	8.4	0.001	0.05	0.55	6.7	1.6	0.5	170.5	<0.01	0.04	3.5
ZZ32244		0.28	38.1	560	28.8	8.3	<0.001	0.05	0.76	6.2	1.1	0.6	36.4	<0.01	0.04	3.9
ZZ32245		0.20	33.4	600	29.3	7.9	0.001	0.05	0.68	5.7	0.7	0.6	36.8	<0.01	0.02	3.2
ZZ32246		0.19	34.0	650	32.1	7.8	<0.001	0.04	0.57	5.8	0.9	0.5	61.9	<0.01	0.03	3.2
ZZ32247		0.33	29.4	450	30.3	7.4	<0.001	0.04	0.49	6.0	0.9	0.6	49.4	<0.01	0.04	3.7
ZZ32248		0.18	20.8	270	26.0	7.5	<0.001	0.02	0.32	5.1	0.8	0.6	33.4	<0.01	0.05	3.4
ZZ32249		0.15	26.2	370	34.4	6.3	<0.001	0.06	0.51	4.5	1.2	0.3	63.2	<0.01	0.03	3.1
ZZ32250		0.20	19.9	210	24.1	8.1	<0.001	0.02	0.36	3.5	0.8	0.6	27.3	<0.01	0.08	2.2
ZZ32251		0.48	25.2	470	26.6	7.0	0.001	0.04	0.44	4.9	1.0	0.5	27.9	<0.01	<0.01	3.0
ZZ32252		0.45	35.9	610	31.6	8.9	0.002	0.05	0.85	5.9	2.3	0.7	37.2	<0.01	0.01	2.6
ZZ32253		0.36	21.0	420	22.2	8.7	0.001	0.05	0.44	3.9	1.2	0.5	38.2	<0.01	0.01	2.0
ZZ32254		0.25	23.9	190	27.6	8.9	<0.001	0.01	0.35	5.4	0.5	0.6	13.2	<0.01	0.01	4.3
ZZ32255		0.25	25.3	570	29.7	7.8	0.001	0.05	0.51	5.0	1.5	0.5	63.6	<0.01	0.01	2.3
ZZ32256		0.31	33.6	640	25.4	7.6	0.001	0.02	0.55	5.8	0.6	0.5	28.5	<0.01	0.03	5.3
ZZ32257		0.27	23.8	540	26.1	6.9	<0.001	0.05	0.44	4.4	1.2	0.5	41.4	<0.01	0.01	2.4
ZZ32258		0.26	18.2	480	21.1	6.4	0.002	0.12	0.25	4.0	1.2	0.4	44.2	<0.01	0.02	2.3
ZZ32259		0.53	19.0	120	21.3	10.1	<0.001	0.01	0.39	3.3	0.5	0.6	7.4	<0.01	0.02	4.3
ZZ32260		0.45	14.9	410	21.1	7.1	<0.001	0.04	0.34	2.9	0.6	0.6	35.9	<0.01	0.01	1.5
ZZ32261		0.23	17.5	550	18.4	6.5	0.001	0.09	0.40	3.6	0.5	0.4	68.9	<0.01	<0.01	1.4
ZZ32262		0.24	26.0	540	18.9	8.1	0.002	0.06	0.63	4.3	0.8	0.4	39.5	<0.01	<0.01	1.7
ZZ32263		0.19	35.4	650	17.7	7.9	0.004	0.09	0.51	4.1	1.2	0.5	57.2	<0.01	0.03	2.2
ZZ32264		0.20	27.9	610	12.1	7.7	0.002	0.10	0.41	3.2	1.1	0.9	109.5	<0.01	0.04	1.6
ZZ32265		0.20	35.0	270	20.9	7.0	0.001	0.05	0.60	4.7	0.2	0.5	49.7	<0.01	0.05	3.1
ZZ32266		0.20	36.1	650	16.6	7.8	0.001	0.06	0.55	4.5	1.0	0.4	97.2	<0.01	0.02	2.6
ZZ32267		0.17	31.7	610	16.1	7.9	0.002	0.07	0.56	3.8	0.9	0.4	70.0	<0.01	0.05	2.1
ZZ32268		0.16	33.2	610	18.6	7.1	0.001	0.06	0.43	4.6	1.0	0.5	45.4	<0.01	0.03	2.7
ZZ32269		0.15	42.0	920	17.1	6.4	0.002	0.06	1.07	4.1	1.2	0.4	36.8	<0.01	0.05	2.9
ZZ32270		0.26	40.8	780	19.7	9.0	0.005	0.05	0.84	5.0	1.9	0.5	35.6	<0.01	0.03	3.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32231		0.005	0.20	1.45	77	<0.05	12.00	214	1.9
ZZ32232		0.005	0.14	2.16	75	<0.05	15.30	174	1.5
ZZ32233		0.005	0.21	2.14	98	0.09	19.60	224	1.5
ZZ32234		<0.005	0.10	2.33	54	0.05	11.60	149	1.8
ZZ32235		0.005	0.11	2.74	71	0.06	11.50	146	1.2
ZZ32236		<0.005	0.11	2.87	38	<0.05	10.90	115	1.8
ZZ32237		<0.005	0.15	1.47	31	<0.05	11.40	109	1.1
ZZ32238		<0.005	0.13	1.06	34	0.06	10.85	115	1.6
ZZ32239		<0.005	0.11	1.28	39	0.05	10.70	122	1.6
ZZ32240		<0.005	0.14	0.96	28	<0.05	11.80	108	1.3
ZZ32241		<0.005	0.12	1.13	24	<0.05	10.70	100	1.4
ZZ32242		<0.005	0.08	1.81	17	<0.05	11.25	63	1.3
ZZ32243		<0.005	0.14	0.99	26	0.05	11.25	141	1.9
ZZ32244		<0.005	0.19	0.96	28	0.06	10.90	166	1.5
ZZ32245		<0.005	0.18	0.96	24	<0.05	10.05	159	1.2
ZZ32246		<0.005	0.14	0.85	23	0.07	9.51	156	1.2
ZZ32247		0.005	0.11	1.20	23	0.06	12.05	118	1.6
ZZ32248		<0.005	0.09	0.77	23	<0.05	7.26	83	1.2
ZZ32249		<0.005	0.11	0.70	13	<0.05	12.60	109	1.4
ZZ32250		<0.005	0.10	0.68	17	0.05	4.05	61	0.9
ZZ32251		0.010	0.09	0.86	31	0.10	10.15	124	1.3
ZZ32252		0.006	0.14	2.01	25	0.08	12.05	158	1.6
ZZ32253		0.008	0.19	0.97	26	0.08	5.66	138	0.9
ZZ32254		<0.005	0.14	0.68	28	0.05	6.55	98	1.2
ZZ32255		<0.005	0.14	1.14	20	0.07	10.60	124	1.3
ZZ32256		0.007	0.13	0.74	29	0.05	9.92	140	2.3
ZZ32257		0.005	0.12	1.21	21	0.05	9.96	102	1.0
ZZ32258		0.005	0.09	1.35	20	<0.05	8.01	102	1.5
ZZ32259		0.009	0.12	0.60	36	0.12	3.53	76	2.3
ZZ32260		0.010	0.09	0.98	29	0.12	3.64	134	0.8
ZZ32261		<0.005	0.12	1.09	17	<0.05	7.12	115	1.3
ZZ32262		0.005	0.15	1.14	24	0.06	9.58	108	1.1
ZZ32263		<0.005	0.11	1.66	21	<0.05	7.71	122	1.1
ZZ32264		<0.005	0.09	1.65	15	<0.05	7.99	77	1.2
ZZ32265		<0.005	0.11	0.95	27	0.05	12.55	109	1.3
ZZ32266		<0.005	0.11	0.88	24	0.05	9.65	123	1.2
ZZ32267		<0.005	0.11	1.00	22	<0.05	7.72	100	1.5
ZZ32268		<0.005	0.08	0.81	22	<0.05	8.37	127	1.1
ZZ32269		<0.005	0.14	0.96	39	<0.05	13.05	204	1.6
ZZ32270		0.006	0.15	0.90	35	0.11	12.40	168	2.4



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ32271		0.18	0.004	0.22	1.00	13.6	<0.2	<10	350	0.80	0.24	2.12	0.96	15.20	10.5	18
ZZ32272		0.20	0.003	0.23	0.84	23.0	<0.2	<10	490	0.75	0.20	2.02	0.93	16.30	12.8	16
ZZ32273		0.24	0.001	0.19	0.93	17.9	<0.2	<10	380	0.86	0.23	1.59	0.68	16.00	12.3	17
ZZ32274		0.24	0.002	0.18	0.99	16.5	<0.2	<10	390	0.80	0.24	1.13	0.72	18.60	14.1	18
ZZ32275		0.26	0.001	0.22	1.00	17.7	<0.2	<10	370	0.87	0.23	1.39	0.71	17.65	13.5	18
ZZ32276		0.18	0.003	0.29	0.76	166.5	<0.2	<10	460	0.75	0.20	2.51	1.50	12.90	11.7	15
ZZ32277		0.22	0.003	0.09	1.28	12.5	<0.2	<10	180	0.63	0.21	0.26	0.30	27.7	10.9	24
ZZ32278		0.26	0.001	0.02	1.36	17.8	<0.2	<10	90	0.52	0.31	0.06	0.11	17.05	9.9	20
ZZ32279		0.22	0.005	0.15	1.54	18.8	<0.2	<10	440	1.37	0.29	0.44	0.33	21.4	17.2	24
ZZ32280		0.20	0.001	0.04	1.38	22.2	<0.2	<10	140	0.81	0.32	0.11	0.26	17.25	17.2	22
ZZ32281		0.12	0.002	0.05	1.80	26.7	<0.2	<10	170	0.92	0.34	0.10	0.29	10.60	22.9	26
ZZ32282		0.10	0.003	0.15	1.42	11.7	<0.2	<10	250	0.63	0.29	0.27	0.51	18.90	7.3	19
ZZ32283		0.26	0.003	0.08	1.77	23.9	<0.2	<10	220	1.18	0.32	0.13	0.69	23.9	17.4	23
ZZ32284		0.10	0.003	0.07	1.73	10.0	<0.2	<10	450	1.00	0.28	0.49	1.51	18.05	14.8	24
ZZ32285		0.22	0.001	0.07	1.72	12.9	<0.2	<10	150	0.72	0.31	0.06	0.38	20.4	11.3	23
ZZ32286		0.18	0.002	0.10	1.69	8.8	<0.2	<10	90	0.58	0.28	0.08	0.26	17.95	13.1	27
ZZ32287		0.16	0.011	0.32	1.65	15.3	<0.2	<10	550	1.38	0.22	0.35	0.80	72.9	27.5	28
ZZ32288		0.12	0.004	0.05	1.70	7.7	<0.2	<10	80	0.70	0.29	0.04	0.24	19.00	19.5	35
ZZ32289		0.14	0.005	0.21	1.73	6.5	<0.2	<10	340	0.91	0.25	0.48	0.34	32.3	15.6	29
ZZ32290		0.16	0.006	0.34	1.52	9.3	<0.2	<10	450	0.98	0.23	1.24	0.47	26.2	13.2	26
ZZ32291		0.12	0.007	0.25	1.43	5.3	<0.2	10	380	0.64	0.18	1.87	0.23	16.50	12.4	26
ZZ32292		0.16	0.006	0.18	1.46	10.5	<0.2	<10	310	0.86	0.21	2.03	0.47	11.40	16.5	22
ZZ32293		0.12	0.004	0.17	1.54	16.4	<0.2	10	340	1.05	0.27	1.58	0.94	12.85	15.9	22
ZZ32294		0.22	0.002	0.10	0.70	24.7	<0.2	<10	180	0.96	0.31	0.60	0.36	8.49	14.2	11
ZZ32295		0.20	0.002	0.20	1.06	22.7	<0.2	10	250	1.16	0.29	0.96	0.75	11.55	13.8	16
ZZ32296		0.12	0.002	0.09	1.62	2.6	<0.2	10	220	0.65	0.19	1.23	0.22	13.70	5.1	23
ZZ32297		0.18	0.002	0.04	1.90	17.7	<0.2	<10	110	0.66	0.32	0.04	0.22	23.9	15.5	29
ZZ32298		0.20	0.003	0.03	1.68	19.0	<0.2	<10	100	0.81	0.25	0.07	0.21	23.0	19.3	25
ZZ32299		0.14	0.006	0.12	0.89	36.7	<0.2	<10	150	0.93	0.35	0.24	0.68	25.5	20.5	19
ZZ32300		0.16	0.003	0.07	1.33	13.9	<0.2	<10	130	0.50	0.28	0.66	0.38	18.30	14.5	24
ZZ32301		0.18	0.003	0.11	1.59	20.0	<0.2	<10	100	0.83	0.35	0.42	0.25	25.4	18.8	25
ZZ32302		0.22	0.005	0.19	1.56	14.0	<0.2	<10	210	0.81	0.30	0.81	0.28	22.4	12.1	27
ZZ32303		0.18	0.003	0.14	1.49	11.1	<0.2	<10	180	0.71	0.31	1.40	0.37	17.80	11.6	25
ZZ32304		0.16	0.005	0.17	1.34	11.4	<0.2	<10	150	0.64	0.28	1.43	0.24	22.5	10.2	23
ZZ32305		0.18	0.005	0.18	1.34	11.6	<0.2	<10	160	0.79	0.27	1.77	0.34	18.35	10.9	23
ZZ32306		0.16	0.011	0.14	1.78	12.5	<0.2	<10	190	0.83	0.29	1.26	0.21	17.90	13.3	24
ZZ32307		0.18	0.004	0.15	1.59	12.0	<0.2	<10	100	0.71	0.32	0.89	0.18	14.85	12.2	23
ZZ32308		0.10	0.005	0.11	1.30	7.6	<0.2	10	110	0.64	0.23	2.45	0.24	11.35	9.8	17
ZZ32309		0.24	0.005	0.12	1.25	13.0	<0.2	10	90	0.79	0.31	0.88	0.34	15.50	10.7	20
ZZ32310		0.16	<0.001	0.12	1.34	14.6	<0.2	<10	140	0.67	0.27	1.12	0.52	14.25	14.1	21





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**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ32271		1.12	33.6	2.38	3.26	<0.05	0.07	0.19	0.028	0.09	6.7	19.6	0.96	174	1.54	0.01
ZZ32272		0.97	33.3	2.90	2.76	<0.05	0.07	0.19	0.026	0.08	7.3	15.7	1.03	304	3.16	<0.01
ZZ32273		1.02	33.5	3.03	3.10	0.05	0.07	0.27	0.028	0.09	7.3	17.7	0.87	404	2.02	<0.01
ZZ32274		1.22	33.9	2.96	3.36	0.06	0.05	0.24	0.038	0.09	8.2	19.7	0.73	393	2.02	<0.01
ZZ32275		0.98	35.6	3.07	3.22	<0.05	0.06	0.23	0.033	0.09	8.0	17.8	0.82	433	2.11	0.01
ZZ32276		1.35	34.1	2.74	2.42	<0.05	0.05	0.46	0.030	0.07	5.7	13.7	0.84	740	2.96	<0.01
ZZ32277		1.25	43.7	2.77	4.06	0.06	<0.02	0.06	0.027	0.06	13.2	17.9	0.43	343	1.25	0.01
ZZ32278		1.75	35.2	3.39	5.08	<0.05	0.02	0.03	0.031	0.07	7.5	19.3	0.27	309	1.23	<0.01
ZZ32279		2.27	53.5	3.81	4.26	0.05	0.08	0.09	0.034	0.09	11.6	24.0	0.42	1160	0.93	<0.01
ZZ32280		1.73	44.9	4.38	4.58	<0.05	0.04	0.03	0.040	0.06	6.6	23.8	0.39	542	1.07	<0.01
ZZ32281		4.95	70.3	5.73	5.09	<0.05	0.05	0.01	0.059	0.08	3.9	33.5	0.42	739	0.84	<0.01
ZZ32282		2.09	33.8	2.81	5.80	0.05	0.02	0.03	0.028	0.07	8.2	11.7	0.21	277	1.00	<0.01
ZZ32283		1.92	60.6	4.32	4.73	<0.05	0.05	0.05	0.036	0.07	9.9	21.7	0.42	635	1.11	<0.01
ZZ32284		1.94	34.1	3.67	5.99	<0.05	0.05	0.04	0.039	0.06	7.5	24.1	0.39	775	0.93	<0.01
ZZ32285		1.52	29.2	3.52	6.42	<0.05	0.03	0.02	0.036	0.06	9.7	20.8	0.28	412	1.58	<0.01
ZZ32286		2.93	37.4	3.88	7.23	<0.05	0.02	0.03	0.047	0.05	8.2	20.0	0.39	978	1.35	<0.01
ZZ32287		11.65	68.3	6.88	5.33	0.14	0.05	0.18	0.068	0.06	20.9	22.2	0.37	5120	1.00	<0.01
ZZ32288		2.95	104.5	5.55	9.84	<0.05	0.02	0.04	0.053	0.06	7.4	16.7	0.45	695	1.28	<0.01
ZZ32289		3.12	60.0	4.60	4.95	0.06	0.03	0.07	0.050	0.06	11.8	20.1	0.52	1490	0.83	0.01
ZZ32290		5.00	69.2	3.70	4.94	0.10	0.05	0.12	0.046	0.06	12.8	19.2	0.61	1610	0.89	0.01
ZZ32291		3.12	88.7	2.94	4.76	0.07	0.05	0.14	0.034	0.06	9.4	19.3	0.84	602	0.73	0.01
ZZ32292		2.90	77.1	3.62	4.57	0.06	0.04	0.15	0.039	0.06	4.5	20.9	0.82	993	1.12	0.01
ZZ32293		2.17	81.9	3.67	4.19	<0.05	0.05	0.19	0.030	0.10	5.5	21.0	0.69	777	0.82	<0.01
ZZ32294		1.96	32.2	3.43	1.99	<0.05	0.04	0.07	0.029	0.09	3.1	7.5	0.22	838	0.80	<0.01
ZZ32295		2.65	48.2	3.23	3.14	<0.05	0.08	0.16	0.031	0.12	4.8	11.9	0.36	621	0.61	<0.01
ZZ32296		1.68	29.5	2.03	4.64	<0.05	0.13	0.12	0.027	0.10	6.6	31.1	0.62	95	0.22	0.01
ZZ32297		1.72	50.5	5.07	6.25	0.05	0.07	0.05	0.042	0.06	10.1	32.4	0.48	476	1.21	<0.01
ZZ32298		1.00	49.4	3.90	4.46	0.05	0.05	0.02	0.036	0.05	9.3	25.6	0.52	647	0.95	<0.01
ZZ32299		3.21	55.2	4.80	2.90	0.06	0.03	0.51	0.052	0.07	10.3	11.7	0.24	812	1.35	<0.01
ZZ32300		1.03	38.0	3.81	5.29	<0.05	0.05	0.08	0.031	0.07	8.7	17.3	0.59	613	0.80	<0.01
ZZ32301		1.26	67.3	4.29	4.90	0.07	0.09	0.20	0.039	0.09	10.3	36.3	0.74	560	0.67	0.01
ZZ32302		1.28	48.6	3.26	4.78	0.05	0.05	0.14	0.036	0.08	11.1	25.7	0.61	541	0.93	0.01
ZZ32303		1.54	48.0	3.19	4.51	0.05	0.06	0.15	0.030	0.08	8.7	26.2	0.52	501	0.71	0.01
ZZ32304		1.16	31.9	2.68	4.27	<0.05	0.04	0.13	0.029	0.06	9.4	20.5	0.52	516	0.91	0.01
ZZ32305		1.55	55.8	3.09	3.93	0.05	0.05	0.23	0.028	0.07	8.6	23.4	0.47	787	0.79	0.01
ZZ32306		1.48	50.8	3.61	4.67	<0.05	0.10	0.20	0.035	0.11	8.2	32.1	0.65	655	0.75	0.01
ZZ32307		5.36	49.3	3.53	4.46	<0.05	0.16	0.20	0.026	0.11	7.8	41.3	0.75	523	0.49	0.01
ZZ32308		2.12	38.0	2.75	3.41	<0.05	0.09	0.16	0.025	0.09	5.6	29.3	0.67	602	0.57	0.01
ZZ32309		1.26	40.3	3.02	3.48	0.05	0.08	0.20	0.032	0.10	6.9	22.5	0.64	150	0.48	0.01
ZZ32310		1.22	43.2	3.73	3.93	<0.05	0.07	0.15	0.027	0.08	6.1	26.2	0.58	662	0.66	0.01



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ32271	0.28	39.5	730	18.8	8.3	0.002	0.06	0.91	4.5	1.6	0.6	51.7	<0.01	0.05	3.2	
ZZ32272	0.21	41.0	840	17.3	6.9	0.003	0.05	1.08	4.3	1.9	0.4	46.4	<0.01	0.05	3.4	
ZZ32273	0.24	37.8	800	18.7	7.5	0.001	0.05	0.88	4.6	1.2	0.6	35.8	<0.01	0.02	3.2	
ZZ32274	0.30	41.3	810	19.4	8.6	0.003	0.04	0.84	4.7	0.9	0.6	27.8	<0.01	0.04	3.9	
ZZ32275	0.31	41.4	800	18.9	7.5	0.002	0.05	0.87	4.8	1.5	0.5	33.1	<0.01	0.05	3.0	
ZZ32276	0.20	42.4	840	18.2	7.8	0.006	0.09	1.22	4.0	2.8	0.4	66.5	<0.01	0.05	2.3	
ZZ32277	0.55	28.7	770	16.4	7.7	0.001	0.02	0.75	5.4	0.8	0.5	18.9	<0.01	0.03	2.5	
ZZ32278	0.36	19.7	420	21.3	10.3	0.001	0.03	0.51	3.6	0.3	0.7	8.5	<0.01	0.06	2.3	
ZZ32279	0.28	34.2	730	31.6	10.8	<0.001	0.05	0.56	7.7	1.1	0.5	19.9	<0.01	0.05	2.2	
ZZ32280	0.44	29.0	490	28.0	9.9	0.001	0.03	0.56	4.5	0.2	0.5	11.0	<0.01	0.11	2.2	
ZZ32281	0.20	29.5	480	26.7	12.3	<0.001	0.03	0.41	6.3	0.5	0.6	8.0	<0.01	0.18	2.0	
ZZ32282	0.57	15.1	580	14.6	12.9	<0.001	0.05	0.34	4.5	0.4	1.0	13.0	<0.01	0.06	1.3	
ZZ32283	0.27	36.7	490	35.6	10.7	<0.001	0.03	0.65	5.9	0.9	0.5	9.4	<0.01	0.08	2.2	
ZZ32284	0.53	19.6	670	77.4	9.4	<0.001	0.06	0.40	6.6	1.5	0.8	18.5	<0.01	0.07	1.9	
ZZ32285	0.80	18.7	220	26.3	11.9	0.001	0.02	0.60	3.2	<0.2	0.8	7.8	<0.01	0.10	3.0	
ZZ32286	0.90	16.0	580	14.5	11.3	<0.001	0.04	0.44	3.8	0.6	0.9	8.5	<0.01	0.09	1.8	
ZZ32287	0.38	39.4	800	18.7	9.2	<0.001	0.05	0.51	23.9	2.1	0.8	12.6	0.01	0.13	1.9	
ZZ32288	0.60	24.3	630	11.0	10.3	<0.001	0.03	0.47	7.0	0.8	1.1	6.0	<0.01	0.14	1.6	
ZZ32289	0.41	23.0	1260	15.3	8.8	<0.001	0.09	0.32	12.1	0.9	0.6	13.7	<0.01	0.08	0.7	
ZZ32290	0.43	23.1	950	16.8	11.2	<0.001	0.11	0.47	14.0	1.9	0.5	28.1	<0.01	0.05	0.7	
ZZ32291	0.46	23.4	870	10.7	7.8	0.001	0.12	0.39	10.4	4.0	1.2	40.3	<0.01	0.03	0.6	
ZZ32292	0.31	28.1	890	15.1	9.0	<0.001	0.12	0.49	6.5	2.7	0.4	59.1	<0.01	0.12	0.5	
ZZ32293	0.23	29.1	750	22.9	9.5	<0.001	0.09	0.64	5.7	1.9	0.4	57.2	<0.01	0.12	0.8	
ZZ32294	0.13	24.4	440	23.1	7.6	<0.001	0.05	0.62	4.3	0.9	0.3	28.1	<0.01	0.03	1.6	
ZZ32295	0.21	25.3	640	31.0	10.9	<0.001	0.07	0.58	5.1	2.0	0.5	43.6	<0.01	0.07	1.4	
ZZ32296	0.23	19.6	880	13.4	9.3	<0.001	0.25	0.21	4.8	1.3	0.4	45.5	<0.01	0.01	1.4	
ZZ32297	0.67	29.1	320	19.1	10.8	<0.001	0.03	0.67	5.2	0.8	0.6	6.5	<0.01	0.08	3.6	
ZZ32298	0.37	32.1	360	22.6	8.3	<0.001	0.02	0.63	5.3	1.2	0.4	8.1	<0.01	0.06	3.6	
ZZ32299	0.39	43.1	470	17.3	9.9	<0.001	0.03	0.55	9.9	1.2	0.5	11.8	<0.01	0.21	2.4	
ZZ32300	0.35	25.0	540	17.2	9.7	<0.001	0.05	0.40	5.6	1.2	0.5	29.5	<0.01	0.08	1.7	
ZZ32301	0.21	34.8	330	20.2	7.2	<0.001	0.03	0.63	8.5	1.2	0.5	20.5	<0.01	0.09	3.4	
ZZ32302	0.55	28.6	630	17.9	9.4	<0.001	0.06	0.71	5.8	1.1	0.5	31.6	<0.01	0.05	1.5	
ZZ32303	0.45	23.6	870	17.0	10.6	<0.001	0.09	0.53	5.0	1.4	0.5	48.7	<0.01	0.05	1.2	
ZZ32304	0.65	23.8	770	14.6	8.9	<0.001	0.08	0.69	3.6	1.4	0.5	55.7	<0.01	0.07	1.0	
ZZ32305	0.54	22.9	910	17.6	9.7	<0.001	0.11	0.66	4.4	1.9	0.5	63.4	<0.01	0.06	0.9	
ZZ32306	0.27	28.7	1110	17.8	8.9	<0.001	0.12	0.63	4.2	2.0	0.7	50.0	<0.01	0.08	1.2	
ZZ32307	0.14	29.8	520	16.8	9.7	0.001	0.08	0.58	6.1	1.4	0.4	39.7	<0.01	0.04	2.5	
ZZ32308	0.18	22.0	850	12.9	8.0	<0.001	0.16	0.47	3.0	2.2	0.4	94.2	<0.01	0.03	0.8	
ZZ32309	0.15	24.6	540	32.1	8.4	0.001	0.08	0.43	7.1	1.8	0.5	34.8	<0.01	0.09	2.2	
ZZ32310	0.17	24.8	690	25.4	8.3	0.001	0.11	0.56	5.1	1.4	0.4	46.1	<0.01	0.05	1.4	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32271		0.007	0.16	0.89	35	0.06	11.80	178	2.0
ZZ32272		0.006	0.15	0.95	38	0.10	12.35	187	1.7
ZZ32273		0.006	0.12	0.90	34	0.07	12.30	152	1.8
ZZ32274		0.008	0.13	0.99	33	0.15	12.55	153	2.1
ZZ32275		0.007	0.14	0.85	35	0.07	13.05	150	1.7
ZZ32276		<0.005	0.31	1.34	44	0.17	12.75	216	1.6
ZZ32277		0.026	0.12	0.82	43	0.20	11.70	116	0.5
ZZ32278		0.008	0.16	0.50	45	0.12	3.67	80	0.7
ZZ32279		0.008	0.12	1.04	37	0.10	19.40	116	1.9
ZZ32280		0.010	0.11	0.48	46	0.14	4.25	158	0.9
ZZ32281		<0.005	0.12	0.34	56	0.05	4.44	136	1.1
ZZ32282		0.012	0.13	0.53	54	0.16	7.23	68	<0.5
ZZ32283		0.005	0.17	0.60	42	0.09	10.10	163	1.1
ZZ32284		0.012	0.11	0.72	56	0.15	8.37	150	1.2
ZZ32285		0.018	0.13	0.44	64	0.19	2.95	129	1.5
ZZ32286		0.025	0.12	0.47	73	0.20	3.09	63	0.6
ZZ32287		0.018	0.13	0.52	80	0.12	55.1	85	0.9
ZZ32288		0.022	0.11	0.40	117	0.12	3.25	76	0.6
ZZ32289		0.018	0.09	0.66	67	0.14	26.7	66	0.5
ZZ32290		0.019	0.11	0.71	55	0.11	34.6	75	0.9
ZZ32291		0.017	0.08	1.27	54	0.08	23.2	70	1.2
ZZ32292		0.011	0.10	0.54	44	0.06	12.60	84	1.1
ZZ32293		0.007	0.12	1.01	39	<0.05	11.85	226	1.5
ZZ32294		0.005	0.11	0.68	20	<0.05	5.35	85	1.3
ZZ32295		0.005	0.13	1.16	27	0.05	9.49	207	1.7
ZZ32296		0.005	0.09	1.09	31	<0.05	8.21	116	3.0
ZZ32297		0.014	0.16	0.53	63	0.13	3.85	64	2.3
ZZ32298		0.011	0.10	0.48	41	0.12	5.11	102	1.8
ZZ32299		0.016	0.30	0.42	37	0.12	10.60	110	0.8
ZZ32300		0.013	0.12	0.50	50	0.07	7.22	95	1.1
ZZ32301		0.008	0.11	0.47	40	0.05	9.05	87	2.3
ZZ32302		0.020	0.12	1.08	43	0.12	11.00	88	1.1
ZZ32303		0.014	0.10	1.16	39	0.08	11.55	96	1.3
ZZ32304		0.023	0.11	1.14	37	0.13	8.15	66	0.9
ZZ32305		0.020	0.11	1.32	37	0.10	11.65	86	1.1
ZZ32306		0.008	0.10	1.53	33	<0.05	10.15	78	2.3
ZZ32307		0.005	0.11	0.71	26	<0.05	9.61	92	3.5
ZZ32308		0.006	0.08	1.71	21	<0.05	7.63	80	2.3
ZZ32309		0.005	0.09	0.67	33	<0.05	9.95	195	2.1
ZZ32310		0.005	0.09	0.86	33	<0.05	7.45	138	1.6



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ32311		0.22	0.003	0.08	1.88	20.9	<0.2	<10	120	1.06	0.34	0.12	0.20	28.9	20.3	25
ZZ32312		0.16	0.015	0.18	1.06	18.7	<0.2	<10	150	0.78	0.29	1.71	0.42	14.50	11.7	18
ZZ32313		0.26	0.001	0.11	1.50	18.1	<0.2	<10	140	0.87	0.31	0.32	0.63	25.1	15.6	24
ZZ32314		0.16	<0.001	0.09	1.73	9.4	<0.2	<10	150	0.79	0.28	0.95	0.13	23.4	14.7	21
ZZ32315		0.16	0.001	0.04	2.21	16.3	<0.2	<10	60	0.83	0.36	0.03	0.13	20.4	14.0	27
ZZ32316		0.14	0.004	0.05	2.24	14.5	<0.2	<10	70	0.85	0.39	0.05	0.18	27.9	18.5	33
ZZ32317		0.22	0.003	0.17	1.65	14.0	<0.2	<10	110	1.11	0.33	0.85	0.19	22.8	19.2	21
ZZ32318		0.32	0.004	0.13	1.76	13.7	<0.2	<10	100	0.92	0.33	0.61	0.17	24.0	15.7	23
ZZ32319		0.20	0.002	0.16	1.75	14.6	<0.2	<10	170	0.94	0.36	0.95	0.30	21.1	12.7	25
ZZ32320		0.14	0.018	0.09	0.76	18.7	<0.2	<10	90	0.64	0.38	1.01	0.52	21.1	15.8	13

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ32311		2.27	48.5	4.64	4.81	0.05	0.04	0.10	0.044	0.06	10.9	31.9	0.48	720	0.91	0.01
ZZ32312		2.23	37.6	3.35	3.11	<0.05	0.04	0.22	0.032	0.07	6.7	21.2	0.48	474	0.80	0.01
ZZ32313		1.33	59.1	4.09	4.83	0.05	0.06	0.16	0.034	0.09	10.2	26.7	0.60	223	0.80	0.01
ZZ32314		1.12	43.6	3.48	6.41	<0.05	0.03	0.10	0.033	0.05	9.9	29.3	0.49	882	0.73	0.01
ZZ32315		1.11	46.7	4.82	5.69	0.05	0.10	0.06	0.033	0.05	8.9	60.4	0.63	290	0.67	0.01
ZZ32316		5.75	62.5	5.97	6.99	<0.05	0.11	0.06	0.047	0.07	12.4	45.1	0.50	486	1.38	0.01
ZZ32317		1.75	92.8	4.06	4.88	0.05	0.07	0.18	0.034	0.07	10.2	36.0	0.55	768	0.87	0.01
ZZ32318		1.33	84.2	4.04	4.91	0.07	0.11	0.19	0.027	0.08	11.7	46.9	0.74	569	0.58	0.01
ZZ32319		1.48	46.6	4.14	5.12	0.07	0.08	0.10	0.033	0.07	12.2	37.1	0.59	830	0.91	0.01
ZZ32320		2.49	39.1	3.30	2.20	<0.05	0.06	0.10	0.034	0.10	8.1	11.8	0.34	1160	0.91	0.01

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ32311		0.42	31.9	300	27.2	9.2	<0.001	0.02	0.76	4.5	0.7	0.5	9.7	<0.01	0.08	3.6
ZZ32312		0.32	24.7	700	26.2	9.3	<0.001	0.11	0.67	5.0	1.6	0.4	62.5	<0.01	0.08	1.1
ZZ32313		0.19	31.5	580	33.2	9.0	0.001	0.03	0.50	8.6	1.4	0.4	19.7	<0.01	0.06	3.9
ZZ32314		0.21	21.3	460	17.2	8.9	<0.001	0.03	0.43	5.0	1.0	0.8	27.3	<0.01	0.06	2.2
ZZ32315		0.14	28.9	270	21.2	10.5	<0.001	0.02	0.65	3.8	0.4	0.3	4.6	<0.01	0.07	4.8
ZZ32316		0.67	30.6	510	20.3	11.3	<0.001	0.03	0.82	4.4	0.6	0.8	6.2	<0.01	0.08	3.9
ZZ32317		0.17	33.5	650	19.0	7.3	0.001	0.05	0.64	6.1	1.2	0.4	42.3	<0.01	0.09	2.3
ZZ32318		0.11	35.1	450	19.5	6.4	<0.001	0.04	0.62	7.9	1.1	0.3	32.7	<0.01	0.06	3.8
ZZ32319		0.37	28.5	770	22.1	10.1	<0.001	0.06	0.67	7.7	1.2	0.4	48.6	<0.01	0.05	2.0
ZZ32320		0.11	19.0	740	37.9	11.0	0.001	0.09	0.55	3.7	1.1	0.3	55.2	<0.01	0.05	1.2

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204561**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32311		0.010	0.12	0.44	41	0.08	4.75	71	1.3
ZZ32312		0.011	0.13	0.82	29	0.22	8.52	117	1.2
ZZ32313		0.005	0.09	0.83	42	<0.05	10.60	178	1.9
ZZ32314		0.005	0.07	0.62	45	0.05	6.91	43	1.1
ZZ32315		<0.005	0.08	0.42	35	<0.05	3.93	67	3.7
ZZ32316		0.014	0.12	0.38	55	0.12	3.12	80	3.1
ZZ32317		0.006	0.08	0.94	32	0.06	11.25	69	1.6
ZZ32318		<0.005	0.07	0.77	27	<0.05	16.15	78	3.4
ZZ32319		0.013	0.09	1.85	37	0.07	17.55	86	1.7
ZZ32320		0.005	0.07	0.86	21	<0.05	6.82	173	1.3

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**CERTIFICATE OF ANALYSIS WH12204561**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12204565**

Project: ATAC- Regional (Area B)  
 P.O. No.: Soil 36  
 This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39291		0.18	0.022	0.03	2.33	15.7	<0.2	<10	260	0.97	0.29	0.08	0.15	30.7	18.4	31
ZZ39292		0.20	0.032	0.07	1.90	19.4	<0.2	<10	170	0.99	0.33	0.31	0.43	34.3	19.7	28
ZZ39293		0.16	0.021	0.13	1.61	107.0	<0.2	<10	210	0.96	0.25	1.09	0.21	22.4	15.0	27
ZZ39294		0.16	0.073	0.12	1.54	130.0	<0.2	<10	210	0.99	0.25	1.22	0.28	20.0	17.2	25
ZZ39295		0.08	0.014	0.12	1.80	122.5	<0.2	<10	160	1.07	0.27	0.48	0.37	25.4	18.3	30
ZZ39296		0.12	0.007	0.14	2.01	203	<0.2	<10	310	1.24	0.32	0.44	0.55	25.4	22.8	32
ZZ39297		0.18	0.007	0.13	1.99	138.0	<0.2	<10	180	1.18	0.30	0.31	0.28	30.0	21.0	33
ZZ39298		0.22	0.008	0.12	2.16	205	<0.2	<10	200	1.31	0.29	0.51	0.40	28.5	23.7	34
ZZ39299		0.18	0.010	0.13	2.04	189.0	<0.2	<10	230	1.19	0.29	0.65	0.25	24.3	22.4	31
ZZ39300		0.14	0.015	0.13	2.45	204	<0.2	<10	300	1.60	0.33	0.52	0.72	26.6	25.1	38
ZZ39301		0.14	0.030	1.06	0.59	13.1	<0.2	<10	390	0.65	0.30	0.03	0.35	5.19	7.1	12
ZZ39302		0.12	0.052	0.33	0.46	13.8	<0.2	<10	350	0.58	0.29	0.05	0.99	5.02	9.1	9
ZZ39303		0.18	0.009	1.89	0.50	51.3	<0.2	<10	740	0.31	0.39	0.02	0.16	6.10	1.0	13
ZZ39304		0.18	0.009	1.89	0.58	24.0	<0.2	<10	1040	0.31	0.28	0.03	0.62	8.97	1.4	19
ZZ39305		0.14	0.010	1.71	0.97	56.4	<0.2	<10	1700	0.55	0.26	0.11	1.13	14.10	3.5	33
ZZ39306		0.16	0.022	6.50	0.69	56.3	<0.2	10	380	0.72	0.26	1.84	12.10	11.85	7.0	113
ZZ39307		0.18	0.017	9.27	0.88	42.6	<0.2	10	850	0.97	0.19	3.05	11.00	10.10	7.8	134
ZZ39308		0.14	0.015	1.87	0.53	35.3	<0.2	<10	2800	0.56	0.18	0.70	0.66	6.71	5.6	35
ZZ39309		0.22	0.021	1.64	0.59	39.8	<0.2	<10	2030	0.61	0.19	0.64	0.68	9.19	6.5	29
ZZ39310		0.22	0.007	1.00	0.79	67.4	<0.2	<10	740	0.29	0.31	0.05	0.21	10.80	4.6	29
ZZ39311		0.20	0.008	3.93	0.92	94.4	<0.2	<10	1740	0.73	0.23	0.44	1.77	10.55	6.7	52
ZZ39312		0.22	0.013	1.06	0.72	123.5	<0.2	<10	830	0.61	0.20	2.84	1.61	14.50	8.8	19
ZZ39313		0.16	0.028	0.57	0.55	169	<0.2	<10	270	1.05	0.13	11.30	2.73	13.95	9.6	11
ZZ39314		0.14	0.040	0.99	1.24	464	<0.2	<10	430	1.09	0.24	2.60	1.83	21.9	9.2	23
ZZ39315		0.18	0.016	0.71	1.59	220	<0.2	<10	170	1.63	0.24	5.65	2.18	26.6	13.4	25
ZZ39316		0.14	0.033	0.92	1.22	221	<0.2	<10	210	1.63	0.18	9.39	1.95	18.95	9.6	21
ZZ39317		0.10	0.027	1.30	1.53	158.0	<0.2	<10	150	1.39	0.21	9.60	2.47	22.6	8.8	24
ZZ39318		0.14	0.008	0.16	1.68	63.1	<0.2	<10	150	1.16	0.25	1.67	1.00	30.7	9.9	30
ZZ39319		0.18	0.005	0.31	1.70	108.0	<0.2	<10	180	2.02	0.25	2.52	1.02	33.8	12.0	30
ZZ39320		0.16	0.005	0.29	1.62	109.0	<0.2	<10	170	1.21	0.24	4.65	2.38	35.9	10.5	28
ZZ39321		0.12	0.006	0.40	1.47	136.5	<0.2	<10	380	1.05	0.24	2.42	1.40	23.9	12.2	27
ZZ39322		0.18	0.006	0.35	1.29	59.7	<0.2	<10	370	0.95	0.26	2.03	1.24	19.85	13.7	24
ZZ39323		0.12	0.008	0.35	1.26	48.1	<0.2	<10	540	0.96	0.23	2.13	1.08	17.80	13.5	23
ZZ39324		0.10	0.004	0.11	1.72	59.5	<0.2	<10	380	1.31	0.26	1.12	1.51	18.30	12.1	27
ZZ39325		0.26	0.007	0.32	0.99	44.3	<0.2	<10	530	0.80	0.22	4.79	1.27	18.55	13.4	20
ZZ39326		0.18	0.007	0.32	1.04	38.5	<0.2	<10	540	0.82	0.22	1.99	1.60	17.30	12.7	21
ZZ39327		0.20	0.004	0.25	0.80	34.3	<0.2	<10	460	0.58	0.19	5.90	0.94	16.00	10.7	16
ZZ39328		0.14	0.009	0.45	0.97	39.5	<0.2	<10	610	0.74	0.19	2.57	1.01	15.55	7.9	20
ZZ39329		0.20	0.004	0.31	1.11	31.5	<0.2	<10	490	0.73	0.21	1.86	0.86	19.80	9.9	21
ZZ39330		0.16	0.004	0.50	1.03	45.4	<0.2	<10	410	0.87	0.18	5.47	1.20	18.80	9.5	20



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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39291		1.14	35.0	4.41	6.40	0.05	0.09	<0.01	0.042	0.05	13.8	49.7	0.68	415	0.88	0.01
ZZ39292		1.43	40.5	4.96	5.71	0.05	0.06	0.05	0.042	0.07	13.1	46.2	0.65	921	0.90	0.01
ZZ39293		1.92	55.1	4.17	4.86	0.06	0.06	0.10	0.037	0.08	10.9	27.5	0.64	546	0.81	0.01
ZZ39294		2.20	71.8	4.14	4.64	0.06	0.06	0.16	0.037	0.07	9.1	29.6	0.70	581	0.84	0.01
ZZ39295		3.50	72.8	3.82	5.84	0.06	0.09	0.19	0.045	0.10	11.3	36.6	0.78	441	0.84	0.02
ZZ39296		3.93	76.5	4.89	5.82	0.06	0.11	0.25	0.046	0.12	11.1	36.4	0.77	974	1.28	0.02
ZZ39297		3.33	77.6	4.55	6.18	0.05	0.08	0.20	0.050	0.11	13.1	43.5	0.82	443	0.90	0.01
ZZ39298		3.82	90.1	5.18	6.92	0.08	0.10	0.16	0.052	0.15	13.0	43.9	0.93	795	1.20	0.01
ZZ39299		3.51	70.8	5.01	6.48	0.07	0.09	0.20	0.045	0.13	10.7	40.6	0.83	774	1.10	0.01
ZZ39300		3.59	99.1	5.67	7.99	0.07	0.10	0.11	0.056	0.19	11.6	54.4	0.87	997	0.98	0.01
ZZ39301		2.74	67.0	2.43	2.64	0.05	0.02	0.07	0.047	0.17	2.6	3.3	0.06	171	4.54	<0.01
ZZ39302		2.79	67.0	2.36	2.31	0.05	0.02	0.05	0.040	0.16	2.4	2.4	0.05	310	4.57	<0.01
ZZ39303		1.31	35.7	4.39	3.39	<0.05	<0.02	0.04	0.041	0.28	3.2	1.1	0.03	13	9.70	0.02
ZZ39304		2.55	28.2	2.55	3.46	<0.05	<0.02	0.07	0.032	0.20	4.5	0.7	0.03	26	11.50	0.02
ZZ39305		1.70	23.8	3.12	4.74	<0.05	0.02	0.03	0.036	0.13	8.8	3.5	0.07	61	15.05	0.01
ZZ39306		1.23	62.0	3.73	2.79	0.12	0.05	0.53	0.070	0.20	14.1	6.3	0.06	87	27.8	0.02
ZZ39307		1.41	114.0	3.34	2.82	0.12	0.06	0.46	0.045	0.14	13.0	6.2	0.18	107	20.7	0.02
ZZ39308		2.09	68.4	2.42	1.76	0.05	0.04	0.43	0.036	0.09	4.2	3.6	0.08	107	7.79	<0.01
ZZ39309		3.09	59.5	2.38	2.08	0.05	0.04	0.43	0.033	0.09	5.0	6.0	0.14	138	7.23	0.01
ZZ39310		4.70	26.7	3.37	4.82	<0.05	<0.02	0.15	0.028	0.10	5.6	4.4	0.11	126	8.45	0.02
ZZ39311		3.76	39.4	3.14	3.06	0.05	0.02	0.52	0.040	0.12	6.1	8.6	0.11	115	21.5	0.01
ZZ39312		3.47	54.4	2.59	2.60	0.05	0.08	1.46	0.029	0.10	6.8	10.3	1.24	299	6.19	0.02
ZZ39313		1.76	63.3	1.93	1.80	<0.05	0.03	3.75	0.025	0.06	5.9	7.7	5.84	568	3.04	0.02
ZZ39314		2.89	20.5	2.88	3.73	<0.05	0.04	3.31	0.036	0.08	10.5	9.8	1.32	722	4.66	0.01
ZZ39315		1.37	24.6	3.21	4.60	0.05	0.10	2.28	0.033	0.10	12.4	16.3	3.28	887	2.44	0.02
ZZ39316		0.92	21.2	2.53	3.46	<0.05	0.08	1.75	0.028	0.09	9.3	12.1	4.95	610	2.41	0.02
ZZ39317		1.19	14.7	2.62	3.93	<0.05	0.07	0.84	0.027	0.06	11.4	10.9	3.97	628	1.67	0.02
ZZ39318		1.25	13.6	2.95	5.16	<0.05	0.07	0.12	0.028	0.08	14.2	13.3	1.24	419	1.59	0.01
ZZ39319		1.04	18.3	3.31	5.02	0.05	0.07	0.27	0.038	0.08	16.8	16.1	1.57	633	2.11	0.01
ZZ39320		0.97	17.4	3.11	4.62	0.05	0.06	0.14	0.033	0.08	17.5	13.3	2.56	672	1.72	0.02
ZZ39321		0.86	32.6	3.08	4.50	<0.05	0.05	0.47	0.033	0.08	11.7	17.3	1.00	528	1.79	0.02
ZZ39322		0.89	38.8	3.45	3.96	0.05	0.07	0.35	0.033	0.09	9.5	18.1	1.08	513	2.48	0.02
ZZ39323		0.68	38.4	3.04	3.82	<0.05	0.06	0.27	0.031	0.10	8.5	16.9	0.75	428	1.98	0.02
ZZ39324		0.72	23.3	3.52	5.15	<0.05	0.05	0.09	0.039	0.11	8.4	18.5	0.59	379	2.28	0.01
ZZ39325		1.82	41.6	3.03	3.42	0.06	0.08	0.43	0.033	0.12	8.5	18.0	1.23	472	2.61	0.02
ZZ39326		0.82	39.2	2.95	3.37	<0.05	0.06	0.21	0.034	0.09	8.4	16.7	0.65	595	2.60	0.01
ZZ39327		1.16	36.1	3.04	2.69	0.06	0.10	0.21	0.027	0.07	7.2	15.5	1.31	526	2.42	<0.01
ZZ39328		0.59	33.0	2.40	2.76	0.05	0.04	0.30	0.025	0.05	9.8	12.0	0.62	488	1.31	<0.01
ZZ39329		0.62	24.8	2.93	3.52	<0.05	0.03	0.17	0.030	0.06	10.2	15.7	0.72	574	1.74	<0.01
ZZ39330		0.56	30.8	3.08	2.83	0.05	0.04	0.22	0.032	0.06	10.6	13.3	1.64	699	2.62	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39291		0.33	36.5	210	18.6	9.8	<0.001	<0.01	0.50	4.7	0.4	0.6	9.8	<0.01	0.05	4.9
ZZ39292		0.34	32.2	600	25.2	9.2	<0.001	0.01	0.62	5.1	0.7	0.4	24.4	<0.01	0.06	3.9
ZZ39293		0.22	28.8	1040	16.1	9.9	0.001	0.05	0.43	7.7	1.5	0.5	54.3	<0.01	0.08	1.7
ZZ39294		0.21	32.3	640	15.7	8.9	0.001	0.06	0.44	6.5	2.3	0.4	58.8	<0.01	0.07	1.5
ZZ39295		0.29	35.2	710	19.4	14.0	0.001	0.05	0.46	9.3	1.8	0.5	41.6	<0.01	0.08	3.7
ZZ39296		0.30	36.0	990	20.7	14.8	0.001	0.06	0.58	10.1	2.6	0.5	38.9	<0.01	0.09	3.9
ZZ39297		0.28	36.8	810	19.7	14.2	0.001	0.02	0.42	11.0	2.1	0.5	30.5	<0.01	0.07	4.4
ZZ39298		0.28	46.1	770	17.5	17.6	<0.001	0.04	0.69	11.0	1.4	0.5	46.6	0.01	0.11	3.4
ZZ39299		0.24	38.7	830	18.4	15.4	<0.001	0.04	0.56	9.4	1.6	0.4	54.5	<0.01	0.12	2.6
ZZ39300		0.28	50.1	560	20.9	20.1	0.001	0.02	0.65	10.4	1.1	0.6	59.3	<0.01	0.13	3.3
ZZ39301		0.16	32.3	1230	17.9	17.2	0.001	0.05	3.32	2.0	2.6	0.5	13.2	<0.01	0.12	0.9
ZZ39302		0.12	30.3	990	17.8	16.7	0.001	0.05	3.31	2.1	2.1	0.5	17.3	<0.01	0.13	1.0
ZZ39303		0.21	10.4	1480	27.1	17.6	0.001	0.35	4.37	1.2	3.8	0.8	45.1	<0.01	0.17	1.5
ZZ39304		0.32	17.7	1060	20.0	16.5	0.001	0.29	3.29	1.1	2.6	0.8	43.4	<0.01	0.14	0.7
ZZ39305		0.30	36.2	3610	17.4	16.3	0.001	0.20	1.93	0.8	4.1	0.7	106.5	<0.01	0.10	0.4
ZZ39306		0.09	144.0	3780	16.9	18.5	0.011	0.50	4.83	4.0	15.2	0.6	477	<0.01	0.21	1.4
ZZ39307		0.16	189.5	3690	10.8	13.4	0.038	0.35	4.00	4.8	16.2	0.7	306	<0.01	0.19	1.2
ZZ39308		0.14	63.1	1190	11.3	7.1	0.010	0.11	1.49	5.6	7.0	0.5	120.5	<0.01	0.10	1.4
ZZ39309		0.19	63.9	1030	11.5	8.3	0.005	0.12	1.38	5.7	5.1	0.5	125.5	<0.01	0.06	1.8
ZZ39310		0.82	36.3	600	15.7	14.0	0.001	0.11	1.47	2.5	4.8	0.8	54.4	<0.01	0.11	1.6
ZZ39311		0.20	72.1	1390	20.5	12.4	0.002	0.21	1.90	4.1	7.9	0.7	162.0	<0.01	0.17	1.4
ZZ39312		0.37	84.8	780	32.9	9.5	0.006	0.14	3.71	4.7	4.0	0.4	82.8	<0.01	0.07	2.9
ZZ39313		0.20	55.3	580	25.7	7.1	0.001	0.03	1.56	3.3	1.9	0.3	81.9	<0.01	0.02	1.6
ZZ39314		0.58	43.0	480	42.0	12.4	<0.001	0.04	2.09	3.8	1.2	0.6	32.3	<0.01	0.03	2.5
ZZ39315		0.45	42.4	560	68.3	10.9	<0.001	0.03	1.21	5.0	1.6	0.6	48.3	<0.01	0.04	3.1
ZZ39316		0.39	33.1	810	81.7	9.4	0.001	0.06	1.51	2.9	1.3	0.5	77.6	<0.01	0.02	1.4
ZZ39317		0.49	26.0	600	80.0	8.4	0.001	0.03	1.13	4.2	0.8	0.5	45.3	<0.01	0.02	1.5
ZZ39318		0.75	27.3	300	21.9	14.4	<0.001	0.01	0.75	4.9	0.7	0.6	12.8	<0.01	0.02	3.7
ZZ39319		0.63	32.8	310	31.3	12.1	<0.001	0.02	0.88	5.9	1.2	0.7	23.0	<0.01	0.05	4.1
ZZ39320		0.68	28.4	620	28.1	11.6	<0.001	0.04	0.93	4.5	1.0	0.6	32.8	<0.01	0.01	2.2
ZZ39321		0.61	36.4	690	30.0	8.9	<0.001	0.05	1.03	3.3	1.4	0.6	31.7	<0.01	0.02	1.2
ZZ39322		0.48	45.0	650	24.8	8.3	0.001	0.03	1.01	4.9	1.4	0.5	34.0	<0.01	0.05	3.4
ZZ39323		0.48	41.7	660	21.4	8.1	0.001	0.04	0.94	4.0	0.9	0.5	29.0	<0.01	0.03	1.9
ZZ39324		0.51	34.7	370	28.5	9.3	<0.001	0.03	0.82	4.7	0.6	0.6	18.6	<0.01	0.06	2.5
ZZ39325		0.34	42.0	820	21.0	9.1	0.005	0.04	1.14	5.1	1.7	0.5	89.0	<0.01	0.04	4.0
ZZ39326		0.49	44.2	860	19.1	7.2	0.002	0.04	1.11	4.2	2.0	0.5	38.9	<0.01	0.04	2.4
ZZ39327		0.59	37.4	730	22.2	6.4	0.003	0.02	0.95	4.3	1.2	0.4	93.6	<0.01	0.04	3.6
ZZ39328		0.47	29.8	850	18.3	6.2	0.002	0.07	0.79	3.0	1.9	0.4	41.6	<0.01	0.03	0.9
ZZ39329		0.62	31.0	820	17.2	6.5	<0.001	0.04	0.78	4.3	1.4	0.4	38.3	<0.01	0.03	2.0
ZZ39330		0.38	33.4	880	20.9	4.9	0.001	0.05	1.07	5.3	2.0	0.4	81.9	<0.01	0.06	1.7



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39291		0.007	0.11	0.50	50	0.10	3.89	71	3.8
ZZ39292		0.010	0.10	1.30	45	0.10	9.13	89	1.7
ZZ39293		0.006	0.30	2.35	47	0.07	18.15	83	1.7
ZZ39294		0.006	0.44	5.05	43	0.09	12.70	92	1.9
ZZ39295		0.006	0.59	3.94	50	0.08	12.35	124	2.9
ZZ39296		0.006	0.78	8.16	54	0.07	14.10	137	3.0
ZZ39297		0.006	0.48	4.16	55	0.08	12.75	116	2.7
ZZ39298		0.008	0.55	4.01	55	0.08	13.40	129	2.8
ZZ39299		0.006	0.49	6.26	54	0.08	10.95	113	2.2
ZZ39300		0.005	0.37	5.38	64	0.07	10.35	168	2.6
ZZ39301		<0.005	0.23	0.88	47	<0.05	3.58	226	0.6
ZZ39302		<0.005	0.22	0.86	41	<0.05	2.68	243	<0.5
ZZ39303		0.006	0.39	0.46	133	0.05	1.81	90	<0.5
ZZ39304		0.010	0.44	0.77	167	0.10	2.11	96	<0.5
ZZ39305		0.010	1.42	2.54	147	0.15	5.29	190	0.5
ZZ39306		<0.005	0.62	11.90	161	0.25	38.8	930	2.6
ZZ39307		0.005	0.48	17.95	193	0.23	48.8	787	2.7
ZZ39308		<0.005	0.23	3.48	63	0.07	22.5	219	1.9
ZZ39309		0.006	0.55	2.52	56	0.12	19.35	231	2.0
ZZ39310		0.018	1.08	0.88	91	0.24	4.73	140	0.6
ZZ39311		<0.005	2.30	3.42	103	0.24	14.70	240	0.9
ZZ39312		0.010	1.60	3.54	60	0.25	11.40	222	3.6
ZZ39313		0.006	0.72	1.90	37	0.25	10.40	304	1.0
ZZ39314		0.011	1.11	1.78	69	0.45	9.24	432	1.2
ZZ39315		0.010	1.01	1.25	55	0.47	12.95	370	2.7
ZZ39316		0.009	2.12	1.55	41	0.51	10.50	292	2.2
ZZ39317		0.012	0.80	1.99	55	0.40	14.50	356	1.9
ZZ39318		0.020	0.31	1.09	60	0.26	8.87	166	2.1
ZZ39319		0.010	0.37	1.25	73	0.28	14.25	170	2.2
ZZ39320		0.013	0.31	1.60	66	0.26	16.40	162	1.6
ZZ39321		0.011	0.25	1.69	57	0.27	11.45	153	1.2
ZZ39322		0.009	0.27	1.12	54	0.12	12.90	180	2.1
ZZ39323		0.007	0.19	1.26	51	0.13	11.30	174	1.7
ZZ39324		0.005	0.26	1.12	71	0.20	7.25	205	1.5
ZZ39325		0.011	0.35	1.29	49	0.12	12.25	185	3.5
ZZ39326		0.008	0.21	1.18	53	0.16	14.00	175	1.9
ZZ39327		0.015	0.17	1.13	38	0.08	10.50	148	4.6
ZZ39328		0.006	0.15	1.79	46	0.08	17.50	136	1.3
ZZ39329		0.009	0.12	1.42	50	0.09	13.25	143	1.3
ZZ39330		<0.005	0.23	1.60	60	0.06	21.7	140	1.4



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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39331		0.16	0.007	0.65	1.31	67.4	<0.2	<10	410	0.96	0.18	2.63	1.25	21.7	11.1	24
ZZ39332		0.18	0.003	0.25	1.28	32.6	<0.2	<10	840	0.70	0.23	1.37	0.72	18.90	9.9	23
ZZ39333		0.18	0.004	0.31	1.34	39.6	<0.2	<10	740	0.75	0.24	0.65	0.50	18.75	11.6	24
ZZ39334		0.18	0.004	0.47	0.91	45.0	<0.2	<10	380	0.72	0.23	4.43	1.18	15.90	11.0	18
ZZ39335		0.12	0.006	0.81	0.73	61.2	<0.2	<10	350	0.74	0.17	3.58	1.87	20.6	7.9	21
ZZ39336		0.14	0.008	0.57	0.79	62.2	<0.2	<10	380	0.91	0.14	8.07	1.55	22.2	8.2	18
ZZ39337		0.16	0.006	0.68	0.95	47.0	<0.2	<10	450	0.74	0.20	3.17	1.76	22.3	8.8	23
ZZ39338		0.20	0.008	0.63	1.05	48.1	<0.2	<10	600	0.73	0.20	2.60	1.44	22.1	9.1	23
ZZ39339		0.18	0.007	0.82	1.63	165.0	<0.2	<10	360	1.27	0.27	0.72	1.35	28.0	12.2	33
ZZ39340		0.14	0.005	0.59	1.51	29.3	<0.2	<10	520	0.85	0.25	0.70	0.57	27.5	10.2	28
ZZ39341		0.14	0.009	0.13	1.02	21.6	<0.2	<10	400	0.52	0.26	0.23	1.65	20.7	5.3	19
ZZ39342		0.16	0.004	0.47	1.12	33.2	<0.2	<10	640	0.69	0.21	1.63	1.90	20.5	9.2	23
ZZ39343		0.14	0.009	0.50	0.79	75.6	<0.2	<10	400	0.62	0.17	2.48	2.35	15.30	8.0	19
ZZ39344		0.14	0.002	0.43	0.80	59.1	<0.2	<10	300	0.63	0.18	2.59	1.59	14.80	9.4	18
ZZ39345		0.14	0.005	0.36	0.68	19.8	<0.2	<10	480	0.55	0.15	3.34	1.51	14.10	6.6	15
ZZ39346		0.18	0.002	0.28	1.14	30.7	<0.2	<10	410	0.54	0.20	1.42	0.86	19.15	8.1	23
ZZ39347		0.16	0.002	0.09	1.88	83.8	<0.2	<10	290	0.92	0.23	0.43	1.38	25.7	9.8	35
ZZ39348		0.18	0.004	0.50	0.83	39.1	<0.2	<10	510	0.73	0.19	2.49	2.10	17.25	9.7	18
ZZ39349		0.24	0.005	0.48	0.85	38.2	<0.2	<10	480	0.77	0.18	2.53	1.71	16.85	8.3	20
ZZ39350		0.18	0.005	0.40	0.79	51.4	<0.2	<10	430	0.71	0.17	4.29	1.67	15.60	8.6	17
ZZ39351		0.14	0.006	0.95	0.69	16.3	<0.2	<10	590	0.82	0.18	2.28	5.35	16.45	7.3	23
ZZ39352		0.16	0.006	0.93	0.77	16.0	<0.2	<10	510	0.73	0.17	1.64	3.44	17.10	7.8	23
ZZ39353		0.14	0.005	0.46	0.67	20.7	<0.2	<10	490	0.66	0.16	2.26	2.88	14.90	8.0	18
ZZ39354		0.10	0.003	0.38	0.65	13.2	<0.2	<10	490	0.69	0.19	2.07	3.24	10.85	9.7	15
ZZ39355		0.12	0.003	0.37	0.55	10.1	<0.2	<10	430	0.51	0.14	3.02	3.16	14.45	6.0	14
ZZ39356		0.14	0.004	0.67	0.47	32.1	<0.2	10	680	0.48	0.15	2.95	5.47	12.50	9.1	15
ZZ39357		0.14	0.005	0.86	0.46	22.1	<0.2	10	850	0.53	0.14	1.26	3.31	13.90	5.2	16
ZZ39358		0.24	0.003	0.80	0.83	18.2	<0.2	<10	410	0.87	0.20	1.86	5.61	19.25	10.3	25
ZZ39359		0.14	0.005	0.83	0.75	16.9	<0.2	<10	470	0.80	0.17	1.77	4.15	18.55	9.3	25
ZZ39360		0.18	0.005	1.00	0.60	26.7	<0.2	10	500	0.72	0.18	2.66	6.95	17.70	9.9	27
ZZ39361		0.16	0.005	1.61	0.67	19.5	<0.2	10	480	0.77	0.16	3.05	10.10	16.00	6.2	35
ZZ39362		0.22	0.005	1.98	0.74	36.5	<0.2	10	440	0.77	0.20	1.95	12.50	13.70	6.3	37
ZZ39363		0.18	0.004	1.51	0.49	21.5	<0.2	<10	350	0.76	0.12	1.89	13.10	12.55	4.2	29
ZZ39364		0.18	0.005	1.04	0.77	18.0	<0.2	<10	520	0.76	0.16	1.48	8.34	14.60	6.3	27
ZZ39365		0.18	0.002	0.22	1.37	24.7	<0.2	<10	340	0.85	0.20	0.30	3.68	22.1	10.9	31
ZZ39366		0.14	0.004	0.87	0.86	22.4	<0.2	<10	700	0.88	0.17	2.00	8.48	15.90	7.9	24
ZZ39367		0.18	0.004	0.73	0.66	21.3	<0.2	<10	500	0.75	0.17	2.23	5.35	12.25	7.0	21
ZZ39368		0.18	0.004	0.77	0.81	19.7	<0.2	<10	460	0.73	0.16	1.56	9.21	14.75	7.2	24
ZZ39369		0.18	0.003	0.50	0.47	17.5	<0.2	<10	400	0.53	0.11	3.57	5.93	10.25	5.7	16
ZZ39370		0.12	0.002	0.42	0.40	18.5	<0.2	<10	320	0.47	0.10	3.67	6.61	7.43	5.2	13

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39331		0.73	23.0	3.26	2.70	0.06	0.03	0.26	0.036	0.06	13.7	14.9	0.76	826	2.60	<0.01
ZZ39332		0.56	24.4	2.95	4.06	<0.05	0.03	0.13	0.032	0.06	9.5	16.1	0.37	546	1.88	<0.01
ZZ39333		0.66	29.3	3.51	4.08	<0.05	0.04	0.20	0.036	0.07	9.1	18.1	0.41	472	2.12	<0.01
ZZ39334		0.99	38.3	3.19	2.93	0.05	0.05	0.25	0.034	0.09	7.7	14.4	1.30	414	3.00	0.01
ZZ39335		0.81	31.8	2.51	2.27	0.06	0.03	0.34	0.028	0.07	15.4	8.6	1.38	805	3.20	<0.01
ZZ39336		0.42	21.8	2.64	1.78	0.06	0.03	0.76	0.025	0.06	17.8	7.4	1.90	593	3.05	0.01
ZZ39337		0.76	40.1	2.55	2.92	0.05	0.03	0.35	0.031	0.06	14.6	10.7	0.76	661	2.62	<0.01
ZZ39338		0.60	44.4	2.62	3.11	0.05	0.03	0.40	0.029	0.06	14.1	10.4	0.74	538	2.72	0.01
ZZ39339		1.17	36.8	3.38	3.95	0.07	0.06	0.66	0.042	0.10	21.5	12.5	0.26	593	4.96	<0.01
ZZ39340		1.13	23.4	2.93	4.19	<0.05	0.04	0.18	0.032	0.06	14.8	12.4	0.40	453	1.91	0.01
ZZ39341		2.55	14.2	2.48	4.37	<0.05	<0.02	0.07	0.025	0.06	10.3	10.7	0.10	229	2.50	<0.01
ZZ39342		0.72	26.6	2.64	3.35	0.05	0.03	0.22	0.031	0.07	11.5	11.2	0.33	355	2.55	<0.01
ZZ39343		0.73	28.5	2.22	2.28	<0.05	0.03	0.34	0.025	0.08	11.8	7.8	0.19	486	3.07	<0.01
ZZ39344		0.64	29.8	2.48	2.47	<0.05	0.03	0.23	0.030	0.08	9.0	9.2	0.83	423	3.43	<0.01
ZZ39345		0.42	29.9	1.83	1.92	<0.05	0.03	0.24	0.023	0.06	8.6	7.0	0.59	444	2.19	<0.01
ZZ39346		0.62	19.2	2.49	3.63	<0.05	0.02	0.10	0.023	0.05	10.4	11.7	0.29	417	3.59	<0.01
ZZ39347		0.87	10.1	3.34	4.87	0.05	0.03	0.03	0.036	0.05	14.9	11.2	0.17	250	3.78	<0.01
ZZ39348		0.54	34.2	2.42	2.52	0.05	0.03	0.43	0.026	0.08	8.8	9.4	0.59	866	3.56	<0.01
ZZ39349		0.64	38.7	2.48	2.76	<0.05	0.04	0.28	0.033	0.09	9.8	10.6	0.93	344	3.46	<0.01
ZZ39350		0.73	31.4	2.43	2.46	<0.05	0.03	0.42	0.024	0.09	8.9	9.7	1.08	449	2.92	0.01
ZZ39351		0.58	61.0	2.16	2.11	0.05	0.03	0.33	0.028	0.09	11.0	7.7	0.24	289	3.53	<0.01
ZZ39352		0.68	41.1	2.18	2.34	0.05	0.04	0.59	0.028	0.08	10.5	9.0	0.29	384	4.72	<0.01
ZZ39353		0.46	37.3	2.29	2.20	0.05	0.03	0.19	0.027	0.08	8.0	7.2	0.28	302	4.46	0.01
ZZ39354		0.46	32.2	2.55	1.81	<0.05	0.03	0.15	0.030	0.07	7.0	5.4	0.15	532	3.68	<0.01
ZZ39355		0.32	23.6	1.86	1.66	0.05	0.03	0.18	0.023	0.06	8.0	6.6	0.83	266	2.86	<0.01
ZZ39356		0.44	30.7	1.86	1.53	0.05	0.03	2.55	0.023	0.07	7.4	4.4	0.21	982	4.58	0.01
ZZ39357		0.51	33.5	1.80	1.58	0.06	0.03	0.24	0.021	0.08	8.1	4.2	0.11	247	8.01	<0.01
ZZ39358		0.69	48.1	2.91	2.57	0.05	0.03	0.25	0.034	0.11	11.7	8.1	0.39	547	9.72	<0.01
ZZ39359		0.57	43.5	2.28	2.47	0.05	0.03	0.24	0.029	0.09	12.4	7.2	0.19	323	8.24	<0.01
ZZ39360		0.82	67.9	2.83	2.20	0.06	0.03	0.17	0.029	0.11	9.2	5.7	0.62	367	12.50	0.01
ZZ39361		0.63	66.3	1.77	2.36	0.06	0.04	0.29	0.023	0.09	11.6	6.4	0.53	158	7.08	<0.01
ZZ39362		0.89	87.1	2.50	2.90	0.08	0.05	0.33	0.029	0.12	9.3	8.3	0.38	152	31.3	0.01
ZZ39363		0.54	65.5	1.15	2.13	0.05	0.03	0.26	0.020	0.07	12.2	4.3	0.10	204	13.95	<0.01
ZZ39364		0.56	41.0	1.76	2.64	<0.05	0.03	0.26	0.024	0.06	9.2	7.8	0.20	188	10.60	<0.01
ZZ39365		0.94	33.6	3.01	3.91	<0.05	0.03	0.05	0.037	0.07	10.4	12.4	0.23	293	17.30	<0.01
ZZ39366		0.52	46.8	2.00	3.15	<0.05	0.04	0.23	0.023	0.05	10.4	8.4	0.24	325	14.00	<0.01
ZZ39367		0.53	45.2	2.12	2.33	<0.05	0.04	0.27	0.024	0.07	6.8	7.8	0.50	220	16.95	<0.01
ZZ39368		0.50	45.0	1.97	2.77	<0.05	0.03	0.23	0.021	0.06	8.4	8.8	0.27	230	13.80	<0.01
ZZ39369		0.41	30.1	1.50	1.73	<0.05	0.02	0.20	0.018	0.05	6.5	5.2	1.09	313	8.08	<0.01
ZZ39370		0.41	28.1	1.51	1.61	<0.05	0.02	0.13	0.014	0.05	4.6	4.6	1.06	457	6.47	<0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39331		0.52	31.8	1040	23.2	7.3	0.002	0.06	1.16	4.7	2.3	0.4	45.2	<0.01	0.06	1.2
ZZ39332		0.73	27.2	610	16.6	6.8	0.002	0.04	0.80	3.5	1.6	0.5	33.4	<0.01	0.02	1.5
ZZ39333		0.61	35.7	600	23.4	7.9	<0.001	0.01	1.86	4.5	1.2	0.5	23.7	<0.01	0.04	3.6
ZZ39334		0.38	44.4	950	20.7	6.8	0.002	0.03	1.22	5.0	1.6	0.4	72.5	<0.01	0.04	3.6
ZZ39335		0.23	43.7	1270	17.7	6.6	0.002	0.04	1.39	4.7	2.9	0.4	51.0	<0.01	0.04	1.6
ZZ39336		0.27	33.0	1040	17.2	5.2	0.001	0.06	1.30	3.7	2.3	0.4	90.6	<0.01	0.04	0.8
ZZ39337		0.44	46.3	1000	16.3	7.3	0.001	0.06	1.27	3.3	2.9	0.5	42.9	<0.01	0.03	0.9
ZZ39338		0.43	47.6	1100	15.0	6.6	0.002	0.06	1.43	2.7	2.2	0.4	42.8	<0.01	0.05	0.7
ZZ39339		0.24	63.1	920	25.3	10.6	0.001	0.03	1.92	7.2	2.8	0.7	28.2	<0.01	0.09	4.5
ZZ39340		0.57	38.7	500	15.5	9.1	<0.001	0.02	0.88	4.7	1.4	0.6	21.9	<0.01	0.03	2.4
ZZ39341		0.69	22.2	430	13.6	17.0	<0.001	0.02	0.75	2.3	0.8	0.7	12.7	<0.01	0.04	1.9
ZZ39342		0.55	39.6	910	14.7	7.0	0.002	0.05	1.33	3.9	1.7	0.5	33.5	<0.01	0.03	1.6
ZZ39343		0.30	41.3	870	13.6	7.4	0.002	0.07	1.24	2.7	2.3	0.5	41.2	<0.01	0.05	0.7
ZZ39344		0.25	45.2	780	14.7	6.8	0.002	0.04	1.36	3.6	2.1	0.5	33.6	<0.01	0.04	1.5
ZZ39345		0.27	32.1	870	10.8	5.5	0.002	0.08	1.33	1.8	2.8	0.4	44.6	<0.01	0.03	0.5
ZZ39346		0.67	33.3	510	14.4	6.0	0.001	0.04	1.14	2.8	2.0	0.5	29.8	<0.01	0.05	1.3
ZZ39347		0.56	36.7	260	20.2	5.9	<0.001	0.01	0.84	3.5	0.9	0.7	17.1	<0.01	0.04	2.4
ZZ39348		0.27	49.2	910	15.9	6.4	0.003	0.05	1.84	3.2	2.4	2.3	48.6	<0.01	0.04	1.1
ZZ39349		0.30	41.4	960	14.6	7.7	0.004	0.05	1.73	3.9	2.5	0.4	42.6	<0.01	0.06	1.7
ZZ39350		0.38	41.6	870	17.3	6.8	0.002	0.04	1.45	3.7	2.0	0.4	55.1	<0.01	0.05	1.8
ZZ39351		0.28	69.6	1050	12.4	7.0	0.002	0.07	2.61	4.0	3.0	0.4	51.9	<0.01	0.06	1.1
ZZ39352		0.27	63.6	1210	11.7	7.2	0.002	0.06	2.60	4.0	3.1	0.4	45.4	<0.01	0.04	1.6
ZZ39353		0.27	49.1	1000	12.5	6.4	0.004	0.06	2.38	2.9	3.1	0.4	49.6	<0.01	0.06	1.4
ZZ39354		0.20	54.0	830	12.9	5.6	0.003	0.07	1.69	3.4	2.5	0.4	35.2	<0.01	0.03	1.1
ZZ39355		0.26	39.6	820	10.5	4.7	0.003	0.06	1.62	2.7	1.9	0.3	44.3	<0.01	0.05	1.4
ZZ39356		0.16	64.2	1190	16.9	6.4	0.012	0.11	2.37	2.0	4.2	0.3	55.2	<0.01	0.07	0.7
ZZ39357		0.15	48.3	970	10.1	6.7	0.015	0.11	3.09	2.6	7.3	0.4	57.5	<0.01	0.06	1.3
ZZ39358		0.28	76.1	1270	14.6	8.1	0.005	0.05	4.10	5.0	3.5	0.5	53.4	<0.01	0.06	2.4
ZZ39359		0.31	57.8	1340	12.8	7.2	0.011	0.06	3.78	4.0	3.9	0.5	66.5	<0.01	0.05	1.7
ZZ39360		0.20	108.0	2300	13.8	6.9	0.005	0.05	6.25	4.7	5.1	0.4	113.5	<0.01	0.07	3.1
ZZ39361		0.28	98.9	1880	12.3	6.8	0.009	0.07	5.31	4.0	3.8	0.4	132.0	<0.01	0.10	1.6
ZZ39362		0.18	150.0	1550	15.9	8.1	0.005	0.08	13.25	4.8	8.8	0.5	94.8	<0.01	0.10	2.7
ZZ39363		0.15	99.7	1230	9.2	5.9	0.013	0.07	10.30	2.7	6.1	0.4	71.2	<0.01	0.12	0.6
ZZ39364		0.37	83.3	850	11.7	6.0	0.006	0.05	5.61	3.7	4.0	0.5	56.0	<0.01	0.08	1.1
ZZ39365		0.38	68.1	780	16.3	10.5	0.002	0.03	5.82	3.3	2.9	0.6	31.9	<0.01	0.10	2.8
ZZ39366		0.38	87.1	880	13.0	6.0	0.003	0.06	6.77	3.3	3.1	0.5	65.5	<0.01	0.10	0.8
ZZ39367		0.22	86.8	930	14.3	5.6	0.006	0.05	6.85	3.8	4.1	0.4	63.7	<0.01	0.07	1.8
ZZ39368		0.35	79.6	820	11.7	5.6	0.004	0.04	6.66	3.4	3.6	0.4	51.7	<0.01	0.09	1.1
ZZ39369		0.17	54.4	710	10.2	4.8	0.006	0.05	4.48	2.3	3.0	0.3	69.0	<0.01	0.05	0.7
ZZ39370		0.15	67.4	620	9.1	4.5	0.008	0.06	4.18	1.9	3.4	0.3	64.0	<0.01	0.06	0.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39331		0.005	0.22	2.24	69	0.10	24.7	165	1.1
ZZ39332		0.011	0.12	2.24	56	0.13	11.10	115	1.0
ZZ39333		0.010	0.15	0.80	59	0.11	10.30	135	1.7
ZZ39334		0.008	0.22	1.39	49	0.07	14.05	186	2.7
ZZ39335		0.007	0.25	1.92	70	0.12	25.5	213	1.0
ZZ39336		<0.005	0.17	1.93	57	0.09	30.5	163	1.0
ZZ39337		0.010	0.18	2.18	62	0.16	24.9	157	1.0
ZZ39338		0.011	0.14	1.80	64	0.19	23.1	158	0.9
ZZ39339		<0.005	0.32	2.49	93	0.20	36.0	261	2.3
ZZ39340		0.016	0.15	1.12	64	0.16	15.80	152	1.1
ZZ39341		0.013	0.17	1.19	75	0.19	7.30	162	0.5
ZZ39342		0.012	0.17	2.86	65	0.19	14.20	191	1.2
ZZ39343		0.005	0.22	2.25	53	0.09	19.75	226	1.1
ZZ39344		0.005	0.18	1.62	60	0.08	17.40	241	1.2
ZZ39345		0.006	0.14	2.08	56	0.08	14.05	165	0.9
ZZ39346		0.013	0.14	1.48	75	0.17	11.65	153	0.8
ZZ39347		0.005	0.28	0.93	101	0.14	12.85	228	1.2
ZZ39348		<0.005	0.20	1.92	74	0.12	14.85	228	1.3
ZZ39349		0.005	0.19	1.80	71	0.09	18.65	228	1.5
ZZ39350		0.005	0.24	1.56	66	0.10	16.30	209	1.2
ZZ39351		0.005	0.27	2.46	126	0.07	25.2	301	1.6
ZZ39352		0.005	0.30	2.39	127	0.09	23.2	291	1.5
ZZ39353		<0.005	0.15	2.14	108	0.07	15.80	279	1.3
ZZ39354		<0.005	0.14	1.53	73	0.06	14.85	251	1.2
ZZ39355		<0.005	0.16	1.51	98	0.05	15.10	227	1.3
ZZ39356		<0.005	0.33	3.40	131	0.09	16.70	419	1.1
ZZ39357		<0.005	0.56	3.47	145	0.07	18.45	263	1.2
ZZ39358		0.005	0.34	2.90	214	0.10	22.9	482	1.5
ZZ39359		0.005	0.31	3.57	236	0.12	25.5	426	1.3
ZZ39360		<0.005	0.38	3.56	274	0.10	21.9	770	1.9
ZZ39361		0.006	0.45	4.65	342	0.14	33.4	638	2.1
ZZ39362		0.005	0.87	4.64	460	0.19	27.2	1200	3.1
ZZ39363		<0.005	0.53	5.45	408	0.14	35.2	696	1.1
ZZ39364		0.007	0.48	3.52	257	0.16	27.3	533	1.3
ZZ39365		0.006	0.58	2.48	282	0.16	11.20	381	1.2
ZZ39366		0.007	0.41	2.83	238	0.12	28.1	412	1.3
ZZ39367		0.005	0.58	3.31	210	0.11	20.9	489	1.8
ZZ39368		0.009	0.43	2.68	220	0.15	22.5	517	1.3
ZZ39369		<0.005	0.31	2.22	183	0.13	18.35	428	1.0
ZZ39370		<0.005	0.27	2.71	169	0.06	12.15	549	1.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39371		0.18	0.004	0.66	0.58	17.2	<0.2	<10	490	0.77	0.13	3.18	5.94	11.80	6.8	18
ZZ39372		0.14	0.003	0.43	0.61	26.5	<0.2	<10	360	0.60	0.14	1.65	3.73	11.10	7.0	17
ZZ39373		0.20	0.003	0.64	0.58	19.0	<0.2	<10	390	0.61	0.14	1.66	6.06	10.40	4.9	18
ZZ39374		0.14	0.004	0.57	0.58	17.0	<0.2	<10	400	0.61	0.13	4.84	4.82	10.00	6.1	15
ZZ39375		0.16	0.004	0.44	0.85	59.7	<0.2	<10	850	0.78	0.21	1.08	1.72	15.35	10.9	19
ZZ39376		0.20	0.005	0.34	0.74	232	<0.2	<10	610	0.76	0.19	1.73	1.26	14.75	10.9	16
ZZ39377		0.22	0.003	0.27	1.26	152.0	<0.2	<10	360	0.99	0.27	0.54	0.67	17.70	13.3	23
ZZ39378		0.16	0.002	0.22	0.90	52.0	<0.2	<10	340	1.26	0.28	0.54	0.85	15.25	16.2	16
ZZ39379		0.14	0.002	0.16	0.89	25.5	<0.2	<10	370	0.89	0.27	0.55	0.70	13.50	11.9	16
ZZ39380		0.12	0.003	0.21	1.39	23.9	<0.2	<10	450	1.06	0.27	0.90	0.76	18.45	9.3	23
ZZ39381		0.20	0.003	0.68	0.98	36.5	<0.2	<10	330	0.91	0.21	2.10	4.23	16.60	10.1	24
ZZ39382		0.20	0.003	0.91	0.82	22.9	<0.2	<10	580	0.80	0.16	3.32	6.08	16.50	8.0	24
ZZ39383		0.20	0.004	1.39	0.94	23.4	<0.2	<10	750	0.96	0.15	2.93	10.10	14.40	6.2	36
ZZ39384		0.20	0.003	0.67	0.49	20.0	<0.2	<10	400	0.63	0.11	2.87	6.79	10.85	5.7	20
ZZ39385		0.10	0.018	1.03	0.39	14.1	<0.2	10	860	0.57	0.09	5.29	10.90	6.96	3.6	20
ZZ39386		0.20	0.004	0.80	0.40	31.9	<0.2	10	600	0.50	0.17	1.91	6.97	6.81	3.5	20
ZZ39387		0.20	0.003	0.88	0.34	15	<0.2	<10	1330	0.62	0.07	11.80	11.70	8.97	3.4	26
ZZ39388		0.14	0.025	1.57	0.36	15.8	<0.2	<10	600	0.61	0.09	9.39	14.75	8.53	5.4	29
ZZ39389		0.14	0.011	0.91	0.36	18.4	<0.2	10	390	0.50	0.10	4.04	14.95	6.71	6.2	20
ZZ39390		0.14	0.002	0.53	0.51	24.3	<0.2	<10	220	0.56	0.14	1.15	7.29	10.70	7.0	21
ZZ39391		0.20	0.004	1.37	0.99	26.8	<0.2	<10	440	1.04	0.20	1.24	11.30	19.60	9.4	37
ZZ39392		0.18	0.005	1.03	0.78	22.4	<0.2	<10	470	0.76	0.17	1.65	11.70	14.80	7.8	29
ZZ39393		0.20	0.004	1.40	0.71	31.7	<0.2	<10	270	0.83	0.19	1.14	9.19	14.60	7.0	36
ZZ39394		0.20	0.003	1.02	0.75	13.7	<0.2	<10	320	0.78	0.15	2.39	7.73	15.25	5.2	29
ZZ39395		0.18	0.005	1.21	0.92	20.6	<0.2	<10	420	0.97	0.19	1.82	7.86	18.15	9.0	31
ZZ39396		0.18	0.003	0.94	0.71	18.5	<0.2	<10	450	0.97	0.19	2.05	7.31	19.65	11.9	24
ZZ39397		0.20	0.007	0.74	0.62	14.8	<0.2	<10	400	0.76	0.16	1.41	5.39	17.80	9.6	20
ZZ39398		0.18	0.004	0.32	0.48	7.7	<0.2	<10	550	0.43	0.16	0.95	1.37	11.80	3.7	11
ZZ39399		0.14	0.004	0.70	0.70	15.7	<0.2	<10	450	0.65	0.17	1.33	2.49	19.85	10.6	18
ZZ39400		0.22	0.005	1.24	0.81	23.8	<0.2	<10	490	0.87	0.20	1.81	7.36	16.60	9.3	24
ZZ39401		0.20	0.003	0.48	0.86	20.6	<0.2	<10	480	0.88	0.21	3.18	1.84	20.0	10.9	21
ZZ39402		0.12	0.003	0.86	0.74	18.2	<0.2	<10	670	0.56	0.20	1.93	0.88	21.4	7.8	19
ZZ39403		0.08	0.004	0.94	0.65	14.2	<0.2	10	610	0.47	0.18	2.25	1.04	18.55	6.4	18
ZZ39404		0.12	0.003	0.74	0.66	21.4	<0.2	<10	590	0.56	0.21	3.49	1.37	19.35	8.8	21
ZZ39405		0.16	0.003	0.72	0.80	22.6	<0.2	10	570	0.64	0.23	2.92	1.71	20.2	8.7	24
ZZ39406		0.12	0.003	0.82	1.02	74.7	<0.2	<10	540	0.77	0.25	0.97	0.46	19.75	9.9	24
ZZ39407		0.10	0.004	0.53	1.13	47.4	<0.2	<10	580	0.77	0.26	1.46	0.82	23.6	9.7	28
ZZ39408		0.18	0.002	0.43	1.29	37.1	<0.2	<10	460	0.74	0.23	1.00	0.61	22.9	7.2	29
ZZ39409		0.12	0.004	0.48	1.32	28.4	<0.2	<10	540	0.80	0.26	1.80	1.57	22.2	8.0	28
ZZ39410		0.16	0.004	0.42	1.27	28.1	<0.2	<10	520	0.79	0.19	1.77	0.64	14.15	9.9	25



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ39371		0.41	36.8	1.56	2.03	<0.05	0.03	0.23	0.020	0.05	7.8	6.3	0.67	423	5.93	<0.01
ZZ39372		0.44	30.9	2.36	2.16	<0.05	0.02	0.17	0.021	0.07	5.7	7.5	0.28	211	10.30	<0.01
ZZ39373		0.48	40.6	1.75	2.13	<0.05	0.03	0.22	0.018	0.06	5.9	6.2	0.17	151	10.40	<0.01
ZZ39374		0.55	35.6	1.58	1.86	<0.05	0.04	0.23	0.020	0.06	5.5	6.6	1.75	395	3.98	<0.01
ZZ39375		1.45	34.2	2.30	2.77	<0.05	0.04	0.33	0.026	0.08	6.9	13.7	0.60	181	5.37	<0.01
ZZ39376		1.79	33.1	2.90	2.62	<0.05	0.04	0.59	0.027	0.08	6.7	13.4	0.88	349	3.33	<0.01
ZZ39377		1.37	38.7	3.60	4.00	<0.05	0.05	0.35	0.031	0.10	8.1	18.2	0.35	624	3.61	<0.01
ZZ39378		0.93	44.1	3.83	2.75	<0.05	0.04	1.70	0.038	0.08	6.4	10.9	0.21	302	2.39	<0.01
ZZ39379		0.94	27.1	1.96	2.70	<0.05	0.03	0.51	0.036	0.08	5.6	11.5	0.19	219	1.42	<0.01
ZZ39380		1.09	29.8	2.75	4.19	<0.05	0.06	0.29	0.029	0.08	8.1	20.0	0.33	121	1.13	<0.01
ZZ39381		0.82	50.3	2.88	3.26	<0.05	0.03	0.40	0.029	0.09	8.6	13.4	0.77	428	9.21	<0.01
ZZ39382		0.64	40.9	2.04	2.65	0.05	0.03	0.30	0.023	0.08	10.4	9.6	0.72	415	7.73	<0.01
ZZ39383		0.42	55.6	2.04	2.92	0.05	0.03	0.32	0.025	0.07	12.1	10.6	0.38	236	18.25	<0.01
ZZ39384		0.48	38.8	1.52	1.84	<0.05	0.02	0.16	0.020	0.06	6.9	5.2	0.50	286	15.95	<0.01
ZZ39385		0.37	44.2	0.92	1.51	<0.05	0.04	0.20	0.015	0.05	5.6	2.4	0.57	139	3.61	0.01
ZZ39386		0.69	50.5	1.87	2.63	<0.05	0.02	0.16	0.023	0.10	4.3	3.1	0.21	97	19.70	<0.01
ZZ39387		0.39	41.1	0.79	1.42	0.05	0.04	0.17	0.010	0.05	7.9	2.4	1.80	155	11.25	0.01
ZZ39388		0.47	51.4	0.95	1.50	0.05	0.02	0.24	0.015	0.05	8.5	2.6	0.67	290	9.48	0.01
ZZ39389		0.47	48.7	1.09	1.36	0.05	0.03	0.19	0.014	0.06	5.3	2.6	0.43	280	13.45	<0.01
ZZ39390		0.48	35.9	1.93	2.01	0.05	0.03	0.14	0.022	0.08	6.5	5.4	0.12	231	15.25	<0.01
ZZ39391		0.73	61.7	2.43	3.45	0.05	0.03	0.26	0.028	0.08	14.2	10.1	0.27	313	17.95	<0.01
ZZ39392		0.50	48.5	2.09	2.71	<0.05	0.03	0.23	0.026	0.07	10.6	7.4	0.17	342	15.55	<0.01
ZZ39393		0.82	66.5	2.19	2.87	0.05	0.05	0.26	0.026	0.12	11.4	7.3	0.21	180	27.7	<0.01
ZZ39394		0.50	39.3	1.52	2.40	<0.05	0.03	0.25	0.018	0.06	12.2	6.8	0.18	263	7.36	<0.01
ZZ39395		0.54	54.8	2.28	3.04	<0.05	0.04	0.44	0.025	0.08	12.2	9.0	0.23	376	12.90	<0.01
ZZ39396		0.57	52.4	2.55	2.28	0.05	0.05	0.22	0.030	0.10	12.1	6.8	0.34	2190	10.60	<0.01
ZZ39397		0.56	44.1	2.34	2.06	<0.05	0.03	0.21	0.030	0.09	10.7	5.7	0.19	482	8.58	<0.01
ZZ39398		0.44	35.0	1.50	1.76	<0.05	0.02	0.17	0.028	0.08	4.6	2.8	0.06	77	3.76	<0.01
ZZ39399		0.66	43.4	2.70	2.30	0.06	0.04	0.24	0.034	0.09	9.1	8.2	0.18	264	6.77	<0.01
ZZ39400		0.88	63.9	2.84	3.13	0.06	0.04	0.44	0.036	0.09	10.4	10.3	0.41	260	9.98	<0.01
ZZ39401		0.65	30.3	3.78	2.56	0.05	0.04	1.48	0.031	0.07	9.5	9.5	1.57	1160	4.41	<0.01
ZZ39402		3.59	28.4	2.31	2.17	0.05	0.04	0.15	0.034	0.08	15.0	6.6	0.18	263	1.73	0.01
ZZ39403		3.60	23.6	2.27	1.93	0.05	0.03	0.13	0.033	0.06	14.5	5.0	0.14	303	1.75	0.01
ZZ39404		2.30	25.1	2.44	2.02	0.06	0.03	0.10	0.036	0.06	23.6	6.9	0.14	292	1.68	0.01
ZZ39405		1.28	25.3	2.58	2.41	0.08	0.03	0.08	0.039	0.08	26.5	7.5	0.18	311	1.60	0.01
ZZ39406		2.44	23.8	2.65	2.75	0.05	0.05	0.11	0.034	0.09	14.0	7.4	0.22	312	1.80	0.01
ZZ39407		1.64	24.8	2.76	3.17	0.05	0.05	0.07	0.036	0.08	18.2	7.9	0.20	500	2.03	0.01
ZZ39408		1.28	19.1	2.55	3.49	0.06	0.03	0.09	0.030	0.06	21.9	8.1	0.26	348	1.61	0.01
ZZ39409		1.41	18.7	2.63	3.87	0.08	0.03	0.08	0.045	0.06	34.2	8.0	0.20	516	1.35	0.01
ZZ39410		1.24	27.5	2.57	3.76	0.05	0.04	0.11	0.030	0.09	11.4	17.9	0.36	255	1.25	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39371	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ39372	0.22	66.0	740	11.2	5.3	0.008	0.07	4.26	2.4	2.8	0.3	68.5	<0.01	0.05	0.5	
ZZ39373	0.30	49.7	750	13.3	5.3	0.008	0.05	4.07	2.5	2.7	0.3	48.5	<0.01	0.07	0.8	
ZZ39374	0.24	70.2	730	12.7	5.7	0.013	0.07	5.88	2.7	5.1	0.4	52.6	<0.01	0.08	1.0	
ZZ39375	0.21	73.5	750	12.3	6.0	0.006	0.07	3.39	2.7	3.8	0.3	69.4	<0.01	0.07	0.8	
ZZ39376	0.23	50.1	960	23.9	7.9	0.005	0.05	2.07	4.1	2.1	0.4	44.8	<0.01	0.05	2.7	
ZZ39377	0.25	40.2	820	21.0	7.9	0.006	0.07	1.40	3.8	3.0	0.4	49.4	<0.01	0.05	2.2	
ZZ39378	0.34	37.6	730	23.1	9.5	0.002	0.03	1.32	5.7	2.2	0.6	31.3	<0.01	0.05	3.1	
ZZ39379	0.20	47.5	690	26.9	7.0	0.001	0.04	1.48	7.2	1.2	0.4	28.9	<0.01	0.03	3.3	
ZZ39380	0.27	29.1	660	25.2	8.1	0.007	0.08	0.92	5.1	1.6	0.4	28.0	<0.01	0.04	3.2	
ZZ39381	0.54	25.3	640	21.9	9.4	0.004	0.11	0.59	5.1	1.5	0.6	31.1	<0.01	0.03	3.1	
ZZ39382	0.28	67.1	930	19.0	7.3	0.003	0.03	3.42	4.9	2.8	0.5	54.6	<0.01	0.05	1.9	
ZZ39383	0.36	67.0	1200	12.2	6.2	0.004	0.07	3.45	2.8	3.3	0.4	82.1	<0.01	0.05	0.7	
ZZ39384	0.27	102.5	1160	11.5	5.3	0.004	0.06	7.06	3.9	5.9	0.5	87.0	<0.01	0.09	0.7	
ZZ39385	0.17	86.3	1110	9.4	5.0	0.010	0.06	6.38	2.2	4.7	0.4	83.1	<0.01	0.08	0.6	
ZZ39386	0.14	85.0	1030	7.5	4.1	0.008	0.11	5.07	1.7	4.0	0.4	165.5	<0.01	0.06	0.4	
ZZ39387	0.14	78.9	730	14.7	6.7	0.007	0.17	8.35	2.5	5.3	0.4	102.0	<0.01	0.09	0.7	
ZZ39388	0.13	87.9	1590	6.1	3.6	0.004	0.09	6.70	1.4	4.2	0.3	344	<0.01	0.06	0.3	
ZZ39389	0.13	150.5	1220	6.6	4.7	0.008	0.09	6.62	2.0	5.1	0.4	243	<0.01	0.07	0.3	
ZZ39390	0.11	157.5	1000	7.4	4.5	0.014	0.10	8.09	1.6	6.6	0.4	122.0	<0.01	0.08	0.4	
ZZ39391	0.12	91.0	1210	11.0	6.1	0.016	0.04	7.22	2.3	5.1	0.4	53.7	<0.01	0.07	1.6	
ZZ39392	0.38	132.5	1310	14.1	7.7	0.003	0.04	9.40	4.8	4.8	0.5	68.0	<0.01	0.08	2.0	
ZZ39393	0.25	105.5	1050	12.4	6.0	0.004	0.05	8.34	3.2	4.2	0.5	58.3	<0.01	0.09	1.1	
ZZ39394	0.15	118.5	1700	15.4	8.4	0.003	0.04	13.60	4.0	5.5	0.5	63.7	<0.01	0.13	3.0	
ZZ39395	0.32	72.3	1140	9.8	6.0	0.004	0.08	5.10	2.4	3.2	0.4	60.3	<0.01	0.07	0.5	
ZZ39396	0.37	125.5	1020	16.4	6.8	0.003	0.06	6.71	3.9	3.0	0.5	52.7	<0.01	0.07	1.4	
ZZ39397	0.24	82.8	1090	20.2	7.4	0.004	0.06	4.76	4.3	3.1	0.4	55.4	<0.01	0.08	1.7	
ZZ39398	0.22	62.0	1250	13.5	7.1	0.009	0.05	3.84	4.1	3.3	0.4	56.6	<0.01	0.07	2.1	
ZZ39399	0.18	26.9	830	12.2	6.9	0.003	0.04	2.16	3.6	2.6	0.4	45.4	<0.01	0.05	2.5	
ZZ39400	0.32	69.1	1140	15.2	7.6	0.003	0.04	3.23	4.3	3.0	0.4	46.9	<0.01	0.07	2.5	
ZZ39401	0.22	97.8	1100	16.2	8.0	0.003	0.02	4.45	5.7	4.8	0.5	49.9	<0.01	0.09	3.0	
ZZ39402	0.23	43.4	920	28.6	6.4	0.001	0.03	1.50	4.7	2.2	0.4	35.8	<0.01	0.05	2.6	
ZZ39403	0.31	41.4	920	12.1	8.8	0.001	0.11	1.03	2.3	2.8	0.4	36.6	<0.01	0.09	0.5	
ZZ39404	0.32	34.4	1010	10.7	9.6	0.001	0.12	0.91	1.6	2.0	0.3	49.4	<0.01	0.09	0.4	
ZZ39405	0.22	39.8	920	13.2	8.7	0.001	0.09	0.92	1.7	2.6	0.4	50.5	<0.01	0.15	0.5	
ZZ39406	0.28	39.1	1030	14.3	8.6	0.001	0.09	0.86	1.9	2.8	0.4	45.6	<0.01	0.14	0.6	
ZZ39407	0.37	40.9	630	14.9	12.3	0.001	0.05	0.90	3.5	2.2	0.5	27.0	<0.01	0.14	1.3	
ZZ39408	0.39	39.8	990	16.2	11.8	0.001	0.08	0.85	3.3	2.1	0.5	32.3	<0.01	0.12	1.1	
ZZ39409	0.39	31.5	1160	13.5	8.9	<0.001	0.07	0.69	2.7	2.3	0.5	25.2	<0.01	0.11	0.8	
ZZ39410	0.39	27.4	1430	15.3	9.9	0.001	0.10	0.61	2.3	2.5	0.5	30.1	0.01	0.12	0.6	
ZZ39410	0.40	43.4	980	12.4	9.4	0.001	0.06	0.54	4.0	1.6	0.5	46.4	<0.01	0.04	1.3	

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ39371		<0.005	0.32	2.36	172	0.07	22.3	419	1.1
ZZ39372		0.005	0.27	3.63	176	0.11	13.70	370	0.9
ZZ39373		<0.005	0.36	3.74	194	0.08	15.60	444	1.3
ZZ39374		<0.005	0.32	1.76	114	0.06	13.85	432	1.4
ZZ39375		0.005	0.37	1.40	58	0.07	13.05	310	1.4
ZZ39376		0.005	0.29	1.25	45	0.41	12.20	206	1.4
ZZ39377		0.005	0.24	2.15	51	0.08	11.20	206	1.7
ZZ39378		<0.005	0.13	1.21	38	0.05	12.45	181	1.8
ZZ39379		<0.005	0.13	2.01	35	0.06	7.86	153	1.4
ZZ39380		0.005	0.19	1.41	45	0.07	10.10	136	2.1
ZZ39381		0.005	0.38	1.76	140	0.08	18.75	369	1.3
ZZ39382		0.008	0.33	3.26	149	0.12	22.7	392	1.0
ZZ39383		<0.005	0.40	3.43	339	0.13	38.4	608	1.0
ZZ39384		<0.005	0.42	4.26	276	0.10	20.3	544	1.1
ZZ39385		<0.005	0.31	3.81	268	0.06	21.2	753	1.5
ZZ39386		<0.005	0.70	2.88	221	0.09	16.50	454	1.2
ZZ39387		<0.005	0.31	4.55	400	0.11	34.1	805	1.3
ZZ39388		<0.005	0.63	5.00	306	0.09	31.9	1050	1.4
ZZ39389		<0.005	0.58	5.29	312	0.12	22.7	1160	1.6
ZZ39390		<0.005	0.30	4.05	323	0.11	19.35	1040	1.6
ZZ39391		0.009	0.49	4.04	363	0.17	32.1	1080	1.4
ZZ39392		0.005	0.44	5.25	391	0.13	25.2	894	1.1
ZZ39393		<0.005	0.76	5.06	508	0.16	29.7	1010	2.8
ZZ39394		0.008	0.44	5.22	310	0.12	27.5	528	1.1
ZZ39395		0.007	0.45	3.02	296	0.14	28.0	677	1.4
ZZ39396		<0.005	0.50	2.75	220	0.09	24.3	512	1.6
ZZ39397		<0.005	0.36	2.80	184	0.09	21.2	455	1.5
ZZ39398		<0.005	0.16	1.86	78	<0.05	9.57	155	0.9
ZZ39399		0.006	0.25	2.49	119	0.11	16.00	389	1.3
ZZ39400		0.005	0.40	2.70	203	0.11	25.2	534	1.4
ZZ39401		0.005	0.24	1.39	76	0.10	14.95	193	1.2
ZZ39402		0.009	0.46	1.41	34	0.11	27.8	135	0.9
ZZ39403		0.009	0.24	2.06	33	0.15	24.3	130	0.8
ZZ39404		0.006	0.21	1.28	32	0.09	40.7	139	0.8
ZZ39405		0.008	0.15	0.72	38	0.11	47.9	143	0.9
ZZ39406		0.009	0.25	0.82	42	0.14	19.20	133	1.3
ZZ39407		0.008	0.21	1.06	49	0.11	31.2	148	1.1
ZZ39408		0.013	0.17	1.28	49	0.13	35.5	116	0.8
ZZ39409		0.011	0.13	1.58	50	0.13	53.3	124	0.7
ZZ39410		0.008	0.17	1.40	37	0.10	21.4	126	1.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39411		0.10	0.005	0.24	1.05	27.9	<0.2	10	820	0.72	0.17	3.51	1.99	9.74	9.0	18
ZZ39412		0.20	0.004	0.32	1.17	27.7	<0.2	<10	350	0.62	0.19	1.54	0.70	21.6	10.4	25
ZZ39413		0.20	0.004	0.24	1.10	42.0	<0.2	<10	260	0.61	0.18	1.22	0.78	29.5	10.1	24
ZZ39414		0.22	0.005	0.38	1.06	11.9	<0.2	<10	340	0.62	0.21	2.74	1.40	21.2	10.4	24
ZZ39415		0.10	0.027	0.28	0.83	7.7	<0.2	10	390	0.53	0.18	3.97	3.14	18.25	12.0	20
ZZ39416		0.18	0.003	0.29	0.77	14.2	<0.2	10	310	0.54	0.18	6.20	3.12	27.4	7.3	25
ZZ39417		0.16	0.003	0.21	1.08	14.6	<0.2	<10	560	0.82	0.27	3.93	5.27	27.4	17.2	24
ZZ39418		0.20	0.005	0.69	1.05	17.7	<0.2	10	560	0.80	0.28	3.24	5.64	20.7	17.8	33
ZZ39419		0.10	0.009	0.11	1.55	10.7	<0.2	<10	510	0.85	0.21	7.93	4.06	25.5	9.7	31
ZZ39420		0.08	0.003	0.14	1.21	5.0	<0.2	<10	570	0.52	0.25	2.57	3.20	17.55	9.3	20
ZZ39421		0.16	0.003	0.68	1.24	15.3	<0.2	<10	470	0.50	0.27	0.13	2.67	14.70	5.5	21
ZZ39422		0.12	0.001	0.50	0.51	14.6	<0.2	<10	1750	0.34	0.17	0.16	1.75	11.30	6.6	23
ZZ39423		0.12	0.001	0.64	0.68	8.3	<0.2	<10	210	0.45	0.24	0.03	0.47	9.89	7.1	12
ZZ39424		0.20	0.001	0.19	0.44	9.8	<0.2	<10	130	0.32	0.20	0.02	0.70	8.27	7.5	10
ZZ39425		0.16	0.003	0.52	0.41	15.8	<0.2	<10	460	0.70	0.17	0.27	2.45	18.75	10.7	15
ZZ39426		0.16	0.007	1.16	0.54	11.0	<0.2	<10	1990	0.63	0.13	1.53	3.02	16.00	8.6	15
ZZ39427		0.14	0.006	0.89	0.49	12.1	<0.2	<10	980	0.64	0.19	0.45	2.95	11.60	8.9	14
ZZ39428		0.18	0.011	0.32	0.34	10.9	<0.2	<10	430	0.44	0.23	0.21	1.18	6.40	9.2	7
ZZ39429		0.16	0.006	2.89	0.93	41.6	<0.2	<10	1260	1.15	0.16	1.61	24.8	13.70	7.7	38
ZZ39430		0.18	0.004	0.79	1.15	29.9	<0.2	<10	900	0.97	0.17	1.27	2.43	31.0	12.2	23
ZZ39431		0.18	0.006	3.47	0.59	46.5	<0.2	<10	420	0.97	0.17	1.19	29.4	16.80	5.4	46
ZZ39432		0.16	0.013	4.50	0.69	25.4	<0.2	<10	480	0.97	0.15	3.20	24.7	17.30	7.5	37
ZZ39433		0.18	0.006	2.19	0.70	89.0	<0.2	10	420	1.17	0.24	4.51	25.6	31.7	7.9	30
ZZ39434		0.16	0.004	1.47	0.69	23.3	<0.2	<10	500	0.88	0.20	1.20	4.03	22.0	8.5	41
ZZ39435		0.20	0.004	1.41	0.85	17.3	<0.2	<10	560	0.89	0.17	1.61	2.89	18.65	9.1	30
ZZ39436		0.20	0.002	0.40	1.10	12.6	<0.2	<10	390	0.97	0.25	1.33	1.69	13.30	16.1	21
ZZ39437		0.12	0.003	0.93	0.87	10.2	<0.2	<10	420	0.80	0.20	1.67	2.79	15.70	8.5	25
ZZ39438		0.14	0.002	0.64	0.81	13.3	<0.2	<10	310	0.80	0.20	1.04	2.15	14.50	12.4	19
ZZ39439		0.18	0.002	0.85	0.92	14.7	<0.2	<10	320	0.95	0.21	0.99	2.54	18.55	13.1	19
ZZ39440		0.18	0.001	0.21	1.04	8.7	<0.2	<10	340	1.01	0.22	0.62	1.12	18.80	11.8	15
ZZ39441		0.16	0.002	0.47	0.90	11.9	<0.2	<10	310	0.83	0.19	1.25	1.33	14.65	12.7	15
ZZ39442		0.12	0.002	0.58	0.89	13.6	<0.2	<10	530	0.77	0.19	1.34	1.54	17.70	11.4	17
ZZ39443		0.12	0.002	0.34	0.92	14.8	<0.2	<10	400	0.95	0.19	1.21	1.00	16.25	11.4	17
ZZ39444		0.20	0.003	0.36	0.79	18.7	<0.2	<10	350	0.77	0.26	0.76	1.06	11.15	14.1	18
ZZ39445		0.18	0.002	0.36	0.78	15.6	<0.2	<10	460	0.88	0.22	1.11	0.98	12.30	12.0	15
ZZ39446		0.16	0.005	0.51	0.72	14.1	<0.2	<10	360	0.87	0.18	1.66	2.42	16.40	10.9	16
ZZ39447		0.16	0.001	0.35	0.64	14.3	<0.2	<10	580	0.78	0.17	1.53	1.07	13.65	12.9	14
ZZ39448		0.16	0.003	0.54	0.78	16.2	<0.2	<10	400	0.82	0.22	1.56	2.14	15.85	12.7	17
ZZ39449		0.10	0.002	0.39	0.70	12.8	<0.2	<10	480	0.70	0.18	1.47	1.92	12.95	16.0	14
ZZ39450		0.18	0.002	0.41	1.04	16.0	<0.2	<10	330	0.83	0.21	0.83	2.35	11.65	14.3	22

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ39411		0.64	39.8	2.25	2.97	<0.05	0.08	0.14	0.025	0.05	9.3	12.2	0.25	212	0.41	0.01
ZZ39412		1.09	25.8	2.56	3.43	0.05	0.05	0.09	0.025	0.07	14.2	14.6	0.40	243	1.14	0.01
ZZ39413		1.13	28.6	2.63	3.57	0.06	0.06	0.12	0.024	0.08	15.8	13.2	0.58	301	1.40	0.02
ZZ39414		0.74	29.9	2.42	3.25	0.05	0.04	0.16	0.027	0.08	13.6	12.0	0.43	399	2.88	0.01
ZZ39415		0.63	20.7	1.77	2.50	0.05	0.03	0.14	0.029	0.07	15.0	6.7	0.24	306	4.97	0.01
ZZ39416		0.33	22.4	2.17	1.86	0.10	0.08	0.18	0.025	0.08	32.6	4.7	0.28	982	5.10	0.02
ZZ39417		0.66	26.4	2.86	2.95	0.06	0.03	0.14	0.035	0.08	16.0	7.6	0.23	569	6.31	0.01
ZZ39418		0.76	32.4	2.91	2.84	0.07	0.05	0.19	0.037	0.12	17.8	6.9	0.23	586	17.65	0.01
ZZ39419		0.55	17.7	2.53	3.76	0.05	0.04	0.07	0.031	0.06	21.7	10.5	0.35	617	3.55	0.01
ZZ39420		0.83	13.8	1.81	4.63	<0.05	0.02	0.07	0.026	0.03	11.6	6.6	0.13	1130	1.75	0.01
ZZ39421		1.10	15.6	3.00	5.26	<0.05	<0.02	0.09	0.026	0.05	7.3	5.7	0.10	255	3.70	0.01
ZZ39422		0.56	38.3	2.33	2.57	<0.05	<0.02	0.05	0.023	0.06	4.4	1.5	0.03	427	4.29	<0.01
ZZ39423		1.03	40.2	2.09	3.01	<0.05	<0.02	0.02	0.035	0.12	5.0	2.6	0.07	119	3.21	<0.01
ZZ39424		0.89	43.9	2.11	2.82	<0.05	<0.02	0.02	0.028	0.09	4.1	1.0	0.03	114	4.66	<0.01
ZZ39425		1.17	78.5	3.05	1.55	0.06	<0.02	0.06	0.048	0.11	8.0	0.7	0.03	162	8.67	<0.01
ZZ39426		0.60	58.6	2.29	1.99	0.05	0.04	0.25	0.027	0.05	6.9	3.9	0.10	307	4.68	<0.01
ZZ39427		1.47	59.6	2.81	2.04	0.05	0.02	0.21	0.033	0.10	5.0	2.1	0.05	222	5.82	0.01
ZZ39428		1.71	58.3	2.34	1.56	<0.05	0.02	0.08	0.035	0.11	3.3	1.3	0.04	109	6.43	0.01
ZZ39429		0.74	106.0	2.20	3.04	0.08	0.05	0.72	0.031	0.11	11.3	6.5	0.09	148	50.7	0.01
ZZ39430		0.76	43.9	3.30	3.54	0.06	0.06	0.23	0.039	0.10	18.3	11.7	0.26	281	8.10	0.01
ZZ39431		0.67	153.5	1.87	3.40	0.08	0.08	0.75	0.045	0.12	9.6	4.3	0.11	125	81.9	<0.01
ZZ39432		0.55	110.5	1.69	2.69	0.07	0.04	0.72	0.032	0.09	11.7	6.0	0.46	271	20.5	<0.01
ZZ39433		0.69	149.0	2.68	3.67	0.10	0.06	0.62	0.037	0.12	19.7	7.5	1.02	209	79.2	0.01
ZZ39434		0.56	86.6	2.76	2.62	0.07	0.05	0.39	0.033	0.10	12.3	7.6	0.18	235	15.85	0.01
ZZ39435		0.40	59.2	2.32	2.56	0.10	0.06	0.31	0.028	0.07	10.6	9.0	0.24	278	9.03	0.01
ZZ39436		0.66	35.9	2.93	3.17	0.08	0.07	0.31	0.031	0.09	6.0	17.5	0.34	412	5.87	0.01
ZZ39437		0.50	49.8	1.90	2.63	0.07	0.07	0.36	0.031	0.09	8.1	9.8	0.27	264	4.71	0.01
ZZ39438		0.78	38.7	2.87	2.38	0.08	0.06	0.21	0.033	0.11	6.7	10.8	0.22	587	6.72	0.01
ZZ39439		1.33	51.1	3.01	2.74	0.10	0.08	0.24	0.040	0.13	8.8	12.9	0.27	540	8.17	0.01
ZZ39440		1.41	28.5	3.68	2.82	0.09	0.07	0.08	0.041	0.15	8.0	17.6	0.29	378	5.73	0.01
ZZ39441		1.17	31.0	3.18	2.52	0.08	0.08	0.21	0.037	0.12	6.3	13.4	0.47	431	6.42	0.01
ZZ39442		0.97	37.0	3.26	2.69	0.09	0.07	0.20	0.036	0.08	8.8	12.2	0.32	282	4.42	0.01
ZZ39443		0.86	31.7	3.32	2.66	0.08	0.07	0.46	0.039	0.10	7.9	12.4	0.30	447	4.67	0.01
ZZ39444		1.71	38.5	3.59	2.37	0.09	0.06	0.71	0.042	0.11	5.1	11.1	0.26	412	4.65	0.01
ZZ39445		1.44	36.9	3.36	2.24	0.09	0.07	0.30	0.041	0.11	5.4	11.2	0.28	276	5.55	0.01
ZZ39446		0.89	42.5	2.76	2.16	0.08	0.07	0.30	0.040	0.10	7.8	9.0	0.19	273	6.24	0.01
ZZ39447		1.35	39.4	3.58	1.92	0.09	0.06	0.17	0.038	0.10	6.4	9.1	0.34	424	5.88	0.02
ZZ39448		1.31	45.9	3.20	2.33	0.09	0.07	0.39	0.041	0.11	7.4	10.4	0.31	386	6.27	0.02
ZZ39449		0.90	34.9	2.77	2.12	0.07	0.06	0.24	0.037	0.10	5.9	9.2	0.22	501	5.42	0.02
ZZ39450		1.11	38.8	3.84	3.14	0.09	0.07	0.18	0.039	0.10	5.3	17.2	0.33	286	9.00	0.01

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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39411	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ39412	0.31	37.6	850	11.1	6.4	0.001	0.14	0.67	3.0	2.3	0.4	56.2	<0.01	0.06	1.1	
ZZ39413	0.63	39.2	980	12.1	8.0	<0.001	0.03	0.58	4.3	1.1	0.4	38.2	<0.01	0.04	2.7	
ZZ39414	0.81	39.4	1010	11.2	7.5	0.001	0.01	0.82	4.4	1.1	0.5	32.3	<0.01	0.05	4.0	
ZZ39415	0.54	45.0	1110	13.4	7.3	0.002	0.08	0.79	3.1	2.0	0.4	34.8	<0.01	0.06	1.0	
ZZ39416	0.36	46.7	1370	11.4	6.6	0.002	0.16	0.66	1.8	2.3	0.4	35.8	<0.01	0.14	0.5	
ZZ39417	0.24	42.3	2080	13.5	5.3	0.002	0.12	0.70	3.5	2.7	0.4	58.1	<0.01	0.06	1.0	
ZZ39418	0.40	65.1	1960	17.4	7.0	0.001	0.08	1.54	3.0	1.9	0.5	36.1	<0.01	0.22	0.9	
ZZ39419	0.31	88.2	2400	17.9	8.6	0.002	0.12	1.45	2.7	3.7	0.6	33.0	<0.01	0.23	0.7	
ZZ39420	0.53	33.9	2000	12.7	6.8	<0.001	0.12	0.71	2.0	1.4	0.5	69.2	<0.01	0.06	0.6	
ZZ39421	0.61	14.8	1130	12.6	4.4	<0.001	0.10	0.41	1.4	0.7	0.6	31.2	<0.01	0.07	0.3	
ZZ39422	0.25	20.7	1700	17.9	8.7	0.001	0.09	0.73	0.3	1.0	0.7	16.6	<0.01	0.08	<0.2	
ZZ39423	0.20	43.0	1610	11.1	5.9	0.001	0.07	2.84	0.8	3.1	0.6	29.1	<0.01	0.07	0.3	
ZZ39424	0.38	38.7	530	13.6	14.0	<0.001	0.05	1.86	2.7	1.3	0.6	19.2	<0.01	0.07	2.3	
ZZ39425	0.20	45.6	630	9.0	12.6	<0.001	0.01	2.80	1.2	2.1	0.6	4.1	<0.01	0.08	0.3	
ZZ39426	0.08	92.3	1540	13.2	7.3	0.002	0.01	5.06	5.0	4.1	0.5	32.1	<0.01	0.07	3.1	
ZZ39427	0.32	79.9	1460	8.8	5.5	0.006	0.10	3.50	4.6	5.1	0.4	86.0	<0.01	0.07	1.7	
ZZ39428	0.14	63.5	1520	14.6	8.4	0.003	0.03	3.81	4.9	4.5	0.5	80.6	<0.01	0.09	1.6	
ZZ39429	0.11	57.6	520	14.8	9.5	0.003	0.04	3.66	3.4	2.7	0.5	46.2	<0.01	0.09	1.5	
ZZ39430	0.14	259	1140	11.6	8.4	0.007	0.06	19.30	5.5	11.3	0.6	75.9	<0.01	0.15	1.3	
ZZ39431	0.51	65.8	960	18.4	8.1	0.003	0.04	2.94	7.0	2.9	0.5	44.6	<0.01	0.07	2.9	
ZZ39432	0.19	198.5	1110	10.6	6.9	0.008	0.04	22.5	4.8	12.3	0.7	46.4	<0.01	0.26	2.3	
ZZ39433	0.22	204	1140	10.0	7.4	0.006	0.07	8.72	3.1	6.9	0.5	73.1	<0.01	0.14	0.5	
ZZ39434	0.30	218	1390	18.0	8.4	0.007	0.04	37.3	5.1	8.4	0.8	147.5	<0.01	0.17	2.6	
ZZ39435	0.17	141.5	1360	12.1	6.6	0.006	0.03	5.36	5.3	6.2	0.6	51.0	<0.01	0.09	3.1	
ZZ39436	0.36	90.8	1100	10.5	6.3	0.005	0.06	3.34	4.9	4.1	0.5	62.6	0.01	0.07	1.5	
ZZ39437	0.43	50.2	670	18.2	8.2	0.007	0.06	1.38	4.7	2.6	0.5	46.6	0.01	0.05	2.1	
ZZ39438	0.35	63.5	980	14.8	7.9	0.008	0.08	2.64	4.4	4.0	0.5	55.7	0.01	0.06	1.6	
ZZ39439	0.27	49.6	920	14.2	8.9	0.006	0.05	2.04	4.6	2.6	0.4	38.6	0.01	0.06	2.1	
ZZ39440	0.29	57.8	1010	15.8	10.6	0.005	0.05	2.90	7.1	2.7	0.5	41.2	0.01	0.07	3.5	
ZZ39441	0.33	35.0	380	15.3	11.7	0.002	0.03	1.56	7.4	1.2	0.5	24.9	0.01	0.03	5.5	
ZZ39442	0.31	33.4	690	16.9	10.0	0.003	0.05	1.97	5.6	1.7	0.4	32.9	0.01	0.05	2.9	
ZZ39443	0.52	35.4	720	14.5	7.8	0.004	0.07	1.93	6.0	2.2	0.4	69.2	0.01	0.05	2.6	
ZZ39444	0.34	33.9	890	15.3	9.3	0.002	0.06	1.29	5.8	2.1	0.4	45.5	0.01	0.04	2.2	
ZZ39445	0.21	43.2	770	17.2	9.4	0.003	0.05	1.20	5.9	1.7	0.5	40.6	0.01	0.05	2.7	
ZZ39446	0.22	40.5	720	16.6	9.3	0.005	0.09	1.69	5.9	1.7	0.4	99.2	0.01	0.05	2.5	
ZZ39447	0.27	50.8	870	14.6	7.7	0.010	0.08	2.58	5.4	3.0	0.4	55.4	0.01	0.05	1.7	
ZZ39448	0.22	44.1	880	13.8	9.8	0.007	0.10	2.08	5.5	2.3	0.4	129.5	0.01	0.05	2.3	
ZZ39449	0.29	52.7	910	16.0	8.7	0.008	0.09	2.52	5.8	2.7	0.5	107.0	0.01	0.06	2.2	
ZZ39450	0.25	51.4	840	13.8	7.7	0.010	0.10	1.93	4.7	2.3	0.4	57.0	0.01	0.05	1.9	
ZZ39450	0.20	59.1	870	14.3	8.7	0.006	0.06	2.46	5.5	2.1	0.5	38.4	<0.01	0.05	2.8	

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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39411		<0.005	0.10	3.81	27	0.06	19.80	130	2.5
ZZ39412		0.020	0.15	0.96	43	0.14	17.75	140	1.5
ZZ39413		0.039	0.15	0.84	46	0.20	14.80	152	2.2
ZZ39414		0.015	0.16	1.57	49	0.15	24.5	174	1.2
ZZ39415		0.007	0.18	2.24	49	0.11	27.0	168	1.1
ZZ39416		0.010	0.11	2.42	61	0.10	70.6	224	1.9
ZZ39417		0.012	0.18	1.65	69	0.15	30.6	207	0.7
ZZ39418		0.007	0.23	2.49	70	0.11	40.3	287	1.3
ZZ39419		0.012	0.10	1.46	62	0.13	39.3	175	1.0
ZZ39420		0.018	0.11	1.79	63	0.12	12.95	149	<0.5
ZZ39421		0.006	0.23	0.90	76	0.15	3.66	114	<0.5
ZZ39422		<0.005	0.21	1.36	193	0.06	6.22	292	<0.5
ZZ39423		0.007	0.25	0.52	61	0.10	2.90	238	<0.5
ZZ39424		0.005	0.22	0.53	73	0.08	1.66	263	<0.5
ZZ39425		<0.005	0.34	4.19	102	<0.05	17.40	551	<0.5
ZZ39426		0.008	0.26	6.74	88	0.06	19.45	285	1.6
ZZ39427		<0.005	0.38	2.50	100	<0.05	18.20	423	0.7
ZZ39428		<0.005	0.38	0.90	60	<0.05	8.77	403	1.1
ZZ39429		<0.005	0.76	5.07	800	0.24	46.0	2290	2.6
ZZ39430		0.008	0.29	1.85	124	0.15	27.6	328	2.2
ZZ39431		0.005	1.09	7.53	728	0.40	35.8	1060	5.5
ZZ39432		<0.005	0.69	5.51	571	0.22	33.0	1390	1.9
ZZ39433		0.006	1.36	10.90	605	0.26	46.5	1800	3.9
ZZ39434		<0.005	0.25	3.69	181	0.11	28.6	697	2.6
ZZ39435		0.006	0.15	3.17	136	0.13	22.2	429	1.6
ZZ39436		<0.005	0.11	2.06	56	0.15	11.70	180	1.6
ZZ39437		<0.005	0.15	3.58	105	0.11	16.10	284	1.9
ZZ39438		<0.005	0.14	2.35	73	0.06	12.10	304	1.6
ZZ39439		<0.005	0.22	2.32	75	0.15	16.15	305	2.6
ZZ39440		<0.005	0.18	0.87	28	0.05	11.10	136	1.7
ZZ39441		<0.005	0.18	1.71	39	0.05	10.10	202	2.1
ZZ39442		0.006	0.18	1.93	45	0.11	11.45	166	1.9
ZZ39443		<0.005	0.17	1.79	40	0.06	11.05	166	1.5
ZZ39444		<0.005	0.25	1.28	35	<0.05	10.40	184	1.7
ZZ39445		<0.005	0.23	2.91	38	<0.05	9.95	188	1.8
ZZ39446		<0.005	0.21	3.03	66	0.05	13.05	246	1.8
ZZ39447		<0.005	0.20	2.11	55	<0.05	11.10	224	1.7
ZZ39448		<0.005	0.28	2.54	67	0.05	12.55	263	2.0
ZZ39449		<0.005	0.20	2.44	57	<0.05	9.95	228	1.9
ZZ39450		<0.005	0.18	2.60	94	0.06	12.20	326	2.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39451		0.20	0.002	0.22	0.92	17.3	<0.2	<10	270	0.95	0.24	0.60	0.82	11.35	14.3	16
ZZ39452		0.12	0.015	0.46	0.99	16.8	<0.2	<10	450	0.83	0.20	1.30	1.85	12.95	15.7	20
ZZ39453		0.18	0.003	0.50	0.98	10.6	<0.2	<10	590	0.85	0.19	1.27	2.24	14.40	9.9	20
ZZ39454		0.28	0.003	0.43	1.00	13.9	<0.2	<10	500	0.87	0.19	0.89	1.92	15.35	10.8	19
ZZ39455		0.14	0.004	0.38	0.79	117.5	<0.2	<10	510	0.71	0.19	1.31	1.24	14.05	10.6	16
ZZ39456		0.14	0.004	1.29	0.98	98.6	<0.2	<10	1000	0.95	0.16	1.01	4.77	25.8	10.6	24
ZZ39457		0.14	0.003	0.54	1.04	34.3	<0.2	<10	630	0.58	0.19	0.53	0.87	16.60	7.1	22
ZZ39458		0.16	0.003	1.04	0.55	24.1	<0.2	<10	940	0.51	0.16	0.91	0.28	6.61	4.4	13
ZZ39459		0.12	0.002	0.93	0.59	43.1	<0.2	<10	1090	0.50	0.16	0.97	0.46	10.35	5.5	15
ZZ39460		0.08	0.010	0.32	0.88	96.6	<0.2	<10	500	0.41	0.18	2.02	1.55	17.40	5.5	20
ZZ39461		0.10	0.008	0.33	1.12	44.6	<0.2	<10	360	0.85	0.23	4.28	4.14	26.0	11.4	24
ZZ39462		0.14	0.001	0.14	1.39	111.0	<0.2	<10	510	0.52	0.24	0.70	0.37	19.50	9.9	26
ZZ39463		0.14	0.001	0.16	0.94	80.6	<0.2	<10	400	0.35	0.23	0.45	1.49	14.85	8.1	22
ZZ39464		0.08	0.002	0.83	1.08	57.2	<0.2	<10	490	0.64	0.20	1.78	1.24	16.75	7.6	29
ZZ39465		0.20	0.001	0.27	1.38	104.0	<0.2	<10	270	0.77	0.23	0.45	1.28	24.0	10.6	31
ZZ39466		0.18	0.013	0.39	1.17	78.4	<0.2	<10	300	0.69	0.18	1.72	1.79	20.6	7.8	25
ZZ39467		0.12	0.003	0.21	0.39	130.0	<0.2	<10	250	0.29	0.09	3.33	1.69	7.57	5.5	14
ZZ39468		0.12	0.002	0.27	0.64	222	<0.2	<10	190	0.69	0.20	4.22	1.17	13.50	10.0	22
ZZ39469		0.14	0.008	0.29	0.75	76.2	<0.2	<10	410	0.55	0.15	3.40	0.77	9.16	5.3	16
ZZ39470		0.14	0.009	0.30	1.23	29.3	<0.2	<10	590	0.75	0.21	2.28	0.93	13.80	10.4	22
ZZ39471		0.18	0.002	0.20	1.52	18.7	<0.2	<10	430	1.10	0.23	0.74	0.76	10.50	16.4	25
ZZ39472		0.16	0.003	0.30	1.44	15.9	<0.2	<10	690	1.12	0.24	0.98	0.61	11.10	13.6	24
ZZ39473		0.16	0.003	0.29	1.22	16.9	<0.2	<10	330	1.08	0.26	2.74	0.58	9.16	14.9	41
ZZ39474		0.18	0.002	0.42	1.07	14.1	<0.2	<10	390	0.96	0.22	2.54	1.03	13.85	15.8	23
ZZ39475		0.14	0.002	0.35	0.99	13.3	<0.2	<10	750	0.87	0.20	2.11	0.85	10.75	11.8	17
ZZ39476		0.20	0.005	0.86	0.89	15.7	<0.2	<10	1120	0.90	0.19	1.24	0.76	21.4	8.7	20
ZZ39477		0.16	0.004	1.05	0.69	15.2	<0.2	<10	1520	0.59	0.17	1.45	0.54	12.20	4.8	27
ZZ39478		0.18	0.007	0.89	0.81	12.5	<0.2	<10	1230	0.57	0.19	0.94	1.40	16.25	5.9	18
ZZ39479		0.20	0.006	0.72	0.61	12.6	<0.2	<10	920	0.88	0.20	0.80	0.61	19.40	8.2	13
ZZ39480		0.14	0.008	1.70	0.53	16.3	<0.2	<10	1430	1.02	0.18	1.43	3.56	17.95	9.7	17
ZZ39481		0.18	0.004	0.49	0.67	15.5	<0.2	<10	650	0.83	0.16	1.12	0.88	14.55	7.8	16
ZZ39482		0.16	0.006	0.49	0.80	20.1	<0.2	10	1330	1.03	0.18	1.95	2.10	17.85	10.0	19
ZZ39483		0.20	0.004	0.71	0.93	29.2	<0.2	<10	730	1.00	0.19	1.92	2.45	28.8	12.1	20
ZZ39484		0.16	0.003	0.32	0.67	17.2	<0.2	<10	180	0.74	0.18	6.38	1.23	22.1	10.5	15
ZZ39485		0.22	0.006	0.46	0.65	23.4	<0.2	<10	230	0.98	0.22	3.41	1.19	22.1	12.5	16
ZZ39486		0.20	0.003	0.18	0.56	13.2	<0.2	<10	180	1.10	0.28	3.48	0.52	16.25	12.0	11
ZZ39487		0.18	0.003	0.23	0.65	15.0	<0.2	<10	260	0.95	0.23	3.27	0.72	17.35	10.3	14
ZZ39488		0.20	0.004	0.17	0.66	17.7	<0.2	<10	230	0.89	0.22	4.90	0.53	18.30	10.1	12
ZZ39489		0.14	0.004	0.12	0.44	11	<0.2	<10	150	0.70	0.16	10.95	0.36	17.40	8.5	7
ZZ39490		0.18	0.005	0.07	0.34	9.8	<0.2	10	210	0.90	0.17	7.09	0.27	19.50	10.4	8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 16- SEP- 2012  
 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39451		1.57	41.3	3.88	2.57	0.08	0.07	0.16	0.048	0.11	5.0	14.2	0.29	330	6.03	0.01
ZZ39452		1.07	40.2	4.06	2.84	0.10	0.07	0.23	0.037	0.10	5.9	14.7	0.29	478	6.14	0.01
ZZ39453		1.05	43.7	2.07	2.91	0.07	0.08	0.22	0.037	0.09	6.6	15.3	0.31	102	2.73	0.01
ZZ39454		0.89	40.6	2.85	3.01	0.09	0.07	0.22	0.039	0.09	7.1	15.9	0.28	355	4.36	0.01
ZZ39455		1.79	33.2	2.50	2.46	0.08	0.06	0.88	0.030	0.07	6.8	12.4	0.68	188	2.53	0.01
ZZ39456		1.04	43.0	3.33	2.82	0.11	0.11	0.34	0.047	0.12	14.0	8.8	0.23	269	5.83	0.02
ZZ39457		1.26	25.8	2.45	3.31	0.07	0.05	0.15	0.031	0.07	8.6	11.3	0.29	215	3.27	0.01
ZZ39458		1.21	29.8	1.75	1.51	0.06	0.08	0.15	0.031	0.06	4.3	2.3	0.05	104	2.06	0.01
ZZ39459		1.08	29.1	1.87	1.73	0.06	0.07	0.24	0.031	0.06	6.3	3.9	0.09	155	1.74	0.01
ZZ39460		0.65	9.6	1.83	2.88	0.06	0.04	0.20	0.024	0.03	12.7	5.2	0.11	425	1.30	0.01
ZZ39461		1.46	18.5	2.48	2.90	0.14	0.13	0.08	0.037	0.05	45.9	5.2	0.16	1160	0.93	0.01
ZZ39462		1.81	14.5	2.67	4.59	0.06	0.03	0.10	0.029	0.07	10.4	11.8	0.36	377	1.95	0.01
ZZ39463		1.36	17.5	2.47	3.60	0.06	0.03	0.11	0.029	0.08	7.4	8.5	0.17	256	4.56	0.01
ZZ39464		1.37	31.3	2.01	3.19	0.10	0.09	0.14	0.036	0.08	23.1	6.5	0.14	188	7.52	0.01
ZZ39465		1.32	26.3	2.89	4.09	0.10	0.06	0.09	0.038	0.11	15.9	10.2	0.26	267	7.85	0.01
ZZ39466		0.87	18.0	2.26	3.34	0.08	0.08	0.13	0.027	0.10	20.1	6.9	0.21	496	3.54	0.01
ZZ39467		0.64	17.2	1.02	1.17	0.06	0.05	0.15	0.016	0.04	10.3	1.5	0.03	434	3.56	0.01
ZZ39468		1.56	28.4	2.04	2.09	0.09	0.13	0.24	0.035	0.10	17.0	5.4	0.09	376	4.15	0.01
ZZ39469		0.84	21.5	1.60	2.00	0.06	0.07	0.23	0.025	0.04	10.5	4.4	0.08	199	1.30	0.02
ZZ39470		0.78	24.6	2.66	3.49	0.07	0.07	0.15	0.035	0.07	9.5	14.8	0.26	600	1.41	0.01
ZZ39471		0.87	27.8	3.81	4.44	<0.05	0.05	0.06	0.038	0.09	5.3	34.6	0.48	368	2.00	0.01
ZZ39472		0.91	33.5	3.33	4.33	0.05	0.06	0.09	0.038	0.10	6.6	30.9	0.43	324	2.13	0.01
ZZ39473		0.71	28.9	3.56	3.51	0.05	0.06	0.11	0.043	0.09	7.8	20.7	0.32	403	1.72	0.01
ZZ39474		1.00	38.0	3.01	2.91	0.06	0.05	0.12	0.034	0.10	10.7	13.9	0.23	660	1.91	0.01
ZZ39475		0.49	29.5	2.93	2.83	<0.05	0.04	0.09	0.029	0.08	6.5	12.8	0.25	537	2.12	0.01
ZZ39476		0.52	37.1	2.41	2.76	0.06	0.03	0.13	0.030	0.07	10.9	7.0	0.16	258	4.86	<0.01
ZZ39477		0.48	37.3	1.58	2.53	0.05	0.04	0.18	0.028	0.06	7.8	4.9	0.09	105	6.89	<0.01
ZZ39478		0.51	51.8	1.96	2.98	0.05	0.03	0.16	0.031	0.06	8.0	5.4	0.11	188	4.32	<0.01
ZZ39479		0.70	57.5	2.41	2.10	0.06	0.03	0.16	0.034	0.08	8.0	3.9	0.08	277	4.60	<0.01
ZZ39480		0.71	92.9	2.73	2.13	0.07	0.02	0.38	0.036	0.09	8.7	4.0	0.10	296	5.91	<0.01
ZZ39481		0.38	41.7	2.58	2.36	<0.05	0.03	0.20	0.028	0.07	6.6	6.4	0.15	200	4.96	<0.01
ZZ39482		0.50	63.4	2.64	2.43	0.05	0.05	0.21	0.029	0.08	9.2	5.6	0.21	308	4.21	<0.01
ZZ39483		0.68	54.3	3.02	3.24	0.07	0.04	0.16	0.039	0.12	14.4	12.1	0.41	289	3.76	0.01
ZZ39484		0.57	33.0	3.17	2.07	0.05	0.08	0.48	0.029	0.10	10.1	11.3	1.71	426	2.78	0.01
ZZ39485		0.71	41.2	3.17	2.00	0.05	0.06	1.20	0.032	0.10	9.9	10.0	1.31	341	2.66	0.01
ZZ39486		0.96	36.2	3.12	1.65	<0.05	0.05	0.97	0.034	0.10	6.8	12.6	1.43	361	1.67	<0.01
ZZ39487		0.42	31.5	2.79	1.95	<0.05	0.04	0.92	0.031	0.08	7.8	11.0	0.89	337	1.63	<0.01
ZZ39488		0.50	30.5	2.86	2.09	<0.05	0.05	0.79	0.029	0.08	7.9	11.3	1.08	363	1.35	0.01
ZZ39489		0.36	20.1	2.20	1.35	<0.05	0.06	0.47	0.022	0.08	6.9	9.9	2.14	424	1.37	0.01
ZZ39490		0.47	30.5	1.86	0.94	0.05	0.11	0.13	0.023	0.12	7.3	4.7	3.36	403	0.74	0.01

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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ39451		0.18	47.2	800	17.4	9.7	0.004	0.04	1.68	6.4	2.0	0.5	30.9	0.01	0.05	3.6
ZZ39452		0.31	55.9	990	14.9	9.6	0.013	0.12	1.94	5.8	3.1	0.4	54.3	0.01	0.06	2.4
ZZ39453		0.24	60.6	1020	15.4	8.3	0.009	0.10	1.99	5.1	2.9	0.4	52.8	0.01	0.06	2.6
ZZ39454		0.27	55.4	1080	15.7	8.8	0.008	0.08	1.84	5.7	2.8	0.5	47.3	0.01	0.05	3.4
ZZ39455		0.37	38.8	890	18.4	8.0	0.005	0.12	1.38	4.4	2.7	0.3	38.7	0.01	0.05	2.6
ZZ39456		0.29	60.9	1710	48.7	8.8	0.005	0.12	2.21	5.5	3.9	0.5	80.8	0.01	0.08	1.7
ZZ39457		0.40	35.5	1010	13.4	9.6	0.003	0.07	1.25	3.7	1.9	0.4	33.3	0.01	0.07	1.6
ZZ39458		0.14	34.3	860	9.7	9.6	0.002	0.09	1.00	3.1	2.7	0.3	52.2	0.01	0.10	0.9
ZZ39459		0.23	34.5	720	14.6	7.5	0.002	0.07	1.02	3.6	2.0	0.3	39.2	0.01	0.10	1.0
ZZ39460		0.68	12.7	1100	10.5	3.7	0.001	0.11	0.49	1.8	1.2	0.4	31.8	0.01	0.08	0.4
ZZ39461		0.45	28.5	1290	16.7	8.9	0.001	0.12	0.67	2.9	2.1	0.4	39.1	0.03	0.15	0.6
ZZ39462		0.80	25.6	540	14.2	12.2	<0.001	0.04	1.17	2.6	1.3	0.5	23.2	<0.01	0.06	1.1
ZZ39463		0.70	34.8	320	16.5	15.0	0.001	0.03	1.07	2.8	2.5	0.5	23.1	<0.01	0.07	2.0
ZZ39464		0.39	59.7	1310	15.0	9.8	0.001	0.08	1.13	3.3	5.6	0.5	46.0	0.02	0.07	0.7
ZZ39465		0.60	64.9	590	18.6	11.8	0.001	0.03	1.60	4.9	4.4	0.6	22.7	0.01	0.06	2.1
ZZ39466		0.64	38.4	880	17.7	9.7	0.001	0.08	1.06	3.9	2.8	0.4	31.2	0.02	0.05	0.9
ZZ39467		0.18	28.4	1160	7.3	4.7	0.001	0.14	1.21	1.3	7.3	0.2	41.0	0.01	0.05	0.2
ZZ39468		0.20	51.2	1270	16.7	9.1	0.001	0.07	1.56	4.4	5.6	0.4	45.8	0.01	0.14	1.3
ZZ39469		0.28	22.9	1000	13.1	6.7	0.005	0.14	0.72	2.3	4.1	0.3	40.4	0.01	0.06	0.5
ZZ39470		0.37	30.0	910	15.2	9.4	0.001	0.09	0.68	3.5	1.9	0.5	38.3	0.01	0.07	1.1
ZZ39471		0.18	56.8	760	21.5	8.9	<0.001	0.05	0.57	5.3	1.2	0.6	23.5	<0.01	0.07	3.2
ZZ39472		0.22	53.0	830	17.4	8.8	<0.001	0.07	0.78	5.5	1.3	0.6	29.1	<0.01	0.08	2.9
ZZ39473		0.17	51.7	980	15.2	8.1	<0.001	0.09	0.90	4.4	1.6	0.5	42.8	<0.01	0.09	1.9
ZZ39474		0.26	55.0	930	15.6	9.3	<0.001	0.08	0.95	3.5	2.1	0.5	42.6	<0.01	0.07	1.2
ZZ39475		0.18	46.8	830	14.4	6.9	0.003	0.07	0.71	3.3	1.7	0.4	31.4	<0.01	0.08	1.3
ZZ39476		0.34	44.4	1260	11.6	6.2	0.001	0.05	2.14	4.3	3.3	0.5	51.7	<0.01	0.09	2.6
ZZ39477		0.20	37.7	1910	9.6	5.3	0.003	0.06	2.97	3.0	4.6	0.5	69.4	<0.01	0.10	1.7
ZZ39478		0.35	42.5	940	11.4	6.3	0.002	0.04	1.91	3.5	3.0	0.6	51.2	<0.01	0.08	1.9
ZZ39479		0.17	44.1	1170	12.6	7.9	0.004	0.03	2.47	4.9	3.1	0.5	51.7	<0.01	0.08	3.8
ZZ39480		0.18	89.7	1330	12.6	6.1	0.006	0.05	4.09	7.2	5.3	0.6	76.2	<0.01	0.09	2.7
ZZ39481		0.19	41.6	960	11.2	4.9	0.003	0.03	2.85	3.9	3.0	0.5	40.6	<0.01	0.06	2.1
ZZ39482		0.17	77.5	1410	14.0	6.7	0.002	0.05	2.96	4.8	3.4	0.5	65.2	<0.01	0.10	2.5
ZZ39483		0.27	59.3	1290	15.5	7.5	0.003	0.04	2.34	6.0	2.6	0.6	55.6	<0.01	0.08	3.3
ZZ39484		0.18	34.5	970	16.7	5.1	0.001	0.03	1.32	4.6	1.8	0.4	173.0	<0.01	0.04	3.8
ZZ39485		0.18	42.0	990	18.5	5.7	0.002	0.04	1.38	5.9	2.2	0.5	65.8	<0.01	0.06	3.4
ZZ39486		0.12	31.9	690	15.9	5.3	0.002	0.06	0.70	6.4	1.3	0.4	59.3	<0.01	0.05	3.6
ZZ39487		0.21	30.6	590	17.2	5.1	0.001	0.04	0.76	4.4	1.6	0.5	72.5	<0.01	0.05	2.1
ZZ39488		0.23	28.1	580	18.3	5.5	0.001	0.04	0.69	4.2	1.6	0.4	191.5	<0.01	0.06	2.3
ZZ39489		0.11	19.5	480	14.5	4.3	<0.001	0.03	0.48	3.5	1.1	0.3	369	<0.01	0.03	2.8
ZZ39490		0.06	19.2	620	15.6	5.3	<0.001	0.08	0.33	3.3	1.7	0.5	147.0	<0.01	0.03	2.5

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ39451		<0.005	0.17	2.47	49	<0.05	11.45	230	2.0
ZZ39452		<0.005	0.20	2.75	72	0.06	13.05	281	2.0
ZZ39453		<0.005	0.21	2.24	94	0.06	15.30	298	2.1
ZZ39454		<0.005	0.17	3.27	77	0.05	14.75	268	2.0
ZZ39455		<0.005	0.38	1.29	48	0.08	12.25	196	1.7
ZZ39456		<0.005	0.53	2.10	98	0.09	22.1	596	2.2
ZZ39457		0.007	0.23	1.80	61	0.12	11.00	171	1.0
ZZ39458		<0.005	0.14	2.07	36	0.05	14.95	135	1.8
ZZ39459		<0.005	0.19	2.05	38	0.08	16.85	137	1.4
ZZ39460		0.017	0.14	1.50	41	0.14	19.10	96	0.6
ZZ39461		0.010	0.11	0.80	44	0.21	74.3	183	0.8
ZZ39462		0.022	0.16	1.01	51	0.19	6.70	124	0.5
ZZ39463		0.015	0.17	0.88	55	0.16	4.63	153	0.8
ZZ39464		0.005	0.20	2.10	50	0.12	36.3	206	1.3
ZZ39465		0.009	0.29	2.10	74	0.18	25.3	240	1.0
ZZ39466		0.012	0.19	1.54	57	0.16	33.3	172	1.1
ZZ39467		<0.005	0.13	4.87	26	0.06	21.8	131	1.1
ZZ39468		<0.005	0.43	2.34	47	0.15	42.0	228	2.4
ZZ39469		<0.005	0.16	3.05	30	0.08	20.8	86	1.6
ZZ39470		<0.005	0.16	1.40	44	0.11	17.75	122	1.4
ZZ39471		<0.005	0.14	0.85	39	0.05	12.60	163	1.9
ZZ39472		<0.005	0.15	1.28	40	0.05	16.95	149	2.1
ZZ39473		<0.005	0.14	1.08	45	<0.05	19.30	167	1.8
ZZ39474		<0.005	0.17	1.06	45	0.38	26.7	160	1.3
ZZ39475		<0.005	0.12	1.42	35	<0.05	17.10	136	1.3
ZZ39476		0.006	0.24	2.49	85	0.09	17.85	219	1.1
ZZ39477		<0.005	0.42	4.69	136	0.10	13.75	197	1.4
ZZ39478		0.006	0.22	3.59	99	0.12	11.95	138	0.8
ZZ39479		<0.005	0.23	3.15	80	<0.05	17.30	203	1.0
ZZ39480		<0.005	0.36	3.21	118	<0.05	26.4	427	1.2
ZZ39481		<0.005	0.16	2.56	93	0.05	14.45	280	1.1
ZZ39482		<0.005	0.23	3.26	112	0.05	21.4	316	1.5
ZZ39483		<0.005	0.26	2.00	92	0.06	19.20	301	2.0
ZZ39484		<0.005	0.14	2.35	52	<0.05	12.80	157	2.7
ZZ39485		<0.005	0.18	2.03	53	0.05	15.30	174	2.4
ZZ39486		<0.005	0.10	1.16	27	<0.05	11.80	116	2.4
ZZ39487		<0.005	0.11	1.70	32	0.20	11.40	117	1.7
ZZ39488		<0.005	0.11	2.50	26	0.06	10.35	105	1.8
ZZ39489		<0.005	0.10	3.14	17	<0.05	7.67	68	2.2
ZZ39490		<0.005	0.11	1.80	13	<0.05	8.55	89	3.5



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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ39491		0.20	0.005	0.25	0.74	21.1	<0.2	10	320	0.96	0.21	2.65	0.46	16.55	9.7	13
ZZ39492		0.22	0.005	0.06	0.20	24.6	<0.2	<10	110	0.94	0.21	8.57	0.29	16.00	11.4	4
ZZ39493		0.18	0.004	0.14	0.71	17.9	<0.2	10	250	0.97	0.25	1.85	0.35	12.95	10.1	12
ZZ39494		0.10	0.023	0.10	0.74	16.2	<0.2	<10	280	1.06	0.31	1.54	0.23	18.50	10.1	14
ZZ39495		0.20	0.004	0.16	1.22	25.4	<0.2	<10	320	1.51	0.34	0.34	0.25	22.1	17.8	22
ZZ39496		0.18	0.003	0.09	1.70	27.5	<0.2	<10	230	1.87	0.33	0.21	0.16	32.6	15.9	22
ZZ39497		0.18	0.001	0.07	0.96	29.4	<0.2	<10	440	0.98	0.30	0.59	0.12	13.85	16.4	15
ZZ39498		0.20	0.003	0.14	0.88	46.6	<0.2	<10	320	1.37	0.32	0.48	0.21	29.6	12.4	18
ZZ39499		0.20	0.003	0.14	0.44	94.5	<0.2	<10	250	0.90	0.32	0.54	0.22	14.70	8.8	10
ZZ39500		0.22	0.003	0.17	0.86	21.3	<0.2	<10	180	1.15	0.40	0.64	0.26	16.15	10.4	15

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**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ39491		0.46	31.3	2.45	2.30	<0.05	0.07	0.60	0.028	0.09	7.8	11.6	0.49	292	1.31	<0.01
ZZ39492		0.59	39.6	2.06	0.64	<0.05	0.18	0.34	0.031	0.09	5.1	4.2	2.74	242	0.68	0.01
ZZ39493		1.19	33.3	2.61	2.22	<0.05	0.06	0.67	0.030	0.09	6.0	11.7	0.42	391	0.85	<0.01
ZZ39494		0.80	28.1	2.96	2.25	<0.05	0.07	0.41	0.035	0.08	7.6	9.9	0.23	367	0.69	<0.01
ZZ39495		1.13	44.8	3.92	3.71	0.06	0.05	0.87	0.044	0.09	13.0	16.6	0.36	817	1.82	<0.01
ZZ39496		1.14	29.4	4.03	3.58	0.06	0.07	1.03	0.052	0.09	13.3	19.1	0.25	463	1.19	<0.01
ZZ39497		1.50	20.5	3.60	3.11	<0.05	0.03	0.72	0.036	0.09	6.2	13.7	0.24	535	0.86	<0.01
ZZ39498		1.56	22.9	3.50	2.09	<0.05	0.05	1.94	0.043	0.08	9.7	9.9	0.17	516	0.91	<0.01
ZZ39499		3.51	28.1	2.91	1.47	<0.05	0.05	2.48	0.037	0.08	5.5	8.5	0.24	240	0.73	<0.01
ZZ39500		1.84	43.1	3.73	2.82	0.05	0.07	1.17	0.042	0.11	8.4	18.4	0.45	360	1.09	<0.01

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ39491		0.27	27.3	620	17.9	6.0	<0.001	0.07	0.73	3.7	1.3	0.4	83.6	<0.01	0.05	1.5
ZZ39492		<0.05	21.8	630	16.2	3.9	<0.001	0.10	0.36	6.3	1.7	0.3	216	<0.01	0.03	6.2
ZZ39493		0.26	26.9	620	18.0	7.8	<0.001	0.08	0.55	4.7	1.3	0.4	54.4	<0.01	0.05	1.9
ZZ39494		0.28	23.9	370	22.0	6.1	<0.001	0.05	0.39	5.1	1.2	0.5	53.3	<0.01	0.03	2.7
ZZ39495		0.23	43.3	260	29.1	8.1	<0.001	0.02	0.84	8.3	1.3	0.6	22.2	<0.01	0.06	5.6
ZZ39496		0.23	32.3	250	30.6	10.4	<0.001	0.01	0.66	7.3	0.9	0.7	11.7	<0.01	0.06	6.0
ZZ39497		0.36	20.8	260	30.7	9.3	<0.001	0.01	0.51	4.6	0.6	0.6	21.5	<0.01	0.06	2.7
ZZ39498		0.17	20.9	310	27.3	7.0	<0.001	0.01	0.61	6.6	0.7	0.5	18.1	<0.01	0.06	4.8
ZZ39499		0.10	20.0	310	28.2	8.1	<0.001	0.02	1.04	6.0	0.8	0.5	25.5	<0.01	0.07	3.5
ZZ39500		0.18	31.8	570	31.2	7.7	<0.001	0.01	0.59	7.0	1.0	0.5	21.7	<0.01	0.09	5.0

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204565**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ39491		<0.005	0.13	2.64	24	0.05	10.10	104	2.1
ZZ39492		<0.005	0.11	2.94	8	<0.05	10.60	87	8.7
ZZ39493		<0.005	0.12	2.13	19	<0.05	10.30	114	2.0
ZZ39494		<0.005	0.11	2.82	19	0.06	11.35	96	2.3
ZZ39495		0.005	0.20	1.35	32	0.08	18.15	139	2.5
ZZ39496		<0.005	0.21	1.72	30	0.06	13.80	85	2.4
ZZ39497		0.005	0.16	0.89	25	0.08	7.17	97	1.1
ZZ39498		<0.005	0.20	1.32	21	0.05	10.25	72	1.6
ZZ39499		<0.005	0.22	1.13	14	<0.05	7.90	87	1.7
ZZ39500		<0.005	0.15	0.83	20	<0.05	13.40	145	3.2

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**CERTIFICATE OF ANALYSIS WH12204565**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12204567**

Project: ATAC- Regional (Area B)  
 P.O. No.: Soil 36  
 This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55011		0.28	0.015	0.11	1.46	21.2	<0.2	<10	270	1.10	0.29	0.41	0.61	26.4	20.0	24
ZZ55012		0.14	0.013	0.22	1.05	5.4	<0.2	10	230	0.77	0.12	3.66	0.45	14.40	7.9	13
ZZ55013		0.22	0.001	0.09	1.69	11.3	<0.2	<10	150	0.81	0.27	0.98	0.31	23.2	16.9	25
ZZ55014		0.12	0.005	0.11	1.67	7.8	<0.2	10	240	0.71	0.23	1.82	0.21	12.20	11.6	22
ZZ55015		0.18	0.019	0.17	1.26	8.5	<0.2	<10	350	0.75	0.21	2.07	0.51	11.45	10.3	17
ZZ55016		0.20	0.004	0.06	2.26	11.7	<0.2	<10	90	1.09	0.28	0.10	0.12	28.0	24.0	27
ZZ55017		0.18	0.006	0.29	2.43	12.1	<0.2	<10	470	1.49	0.30	1.02	0.25	23.1	21.0	29
ZZ55018		0.18	0.003	0.04	1.30	8.0	<0.2	<10	180	0.37	0.26	0.17	0.27	18.80	9.7	20
ZZ55019		0.20	0.004	0.04	1.62	13.0	<0.2	<10	90	0.48	0.36	0.03	0.17	13.75	7.7	16
ZZ55020		0.18	0.007	0.19	1.39	9.0	<0.2	<10	190	0.61	0.25	0.71	0.19	23.3	10.2	26
ZZ55021		0.18	0.013	0.08	1.67	20.9	<0.2	<10	490	0.85	0.29	1.43	1.08	43.4	27.3	23
ZZ55022		0.14	0.001	0.13	1.84	12.4	<0.2	<10	250	0.90	0.26	1.41	0.23	18.70	15.0	25
ZZ55023		0.16	0.005	0.08	1.76	11.6	<0.2	10	140	0.78	0.28	1.03	0.16	19.05	15.1	23
ZZ55024		0.20	0.006	0.09	1.90	11.1	<0.2	<10	150	0.91	0.27	1.02	0.22	23.1	16.9	26
ZZ55025		0.20	0.005	0.09	1.76	11.2	<0.2	<10	130	0.83	0.26	1.08	0.19	20.9	15.2	24
ZZ55026		0.24	0.004	0.09	1.87	11.4	<0.2	<10	130	0.79	0.27	0.85	0.19	23.0	15.7	25
ZZ55027		0.24	0.005	0.09	1.82	11.1	<0.2	<10	120	0.77	0.27	0.67	0.22	25.8	17.1	26
ZZ55028		0.18	0.004	0.09	1.87	9.5	<0.2	<10	140	0.80	0.26	0.91	0.20	21.6	12.9	25
ZZ55029		0.16	0.001	0.11	1.76	10.9	<0.2	<10	160	0.87	0.26	1.28	0.27	19.90	14.7	25
ZZ55030		0.24	0.002	0.06	1.62	13.7	<0.2	<10	140	0.71	0.25	0.61	0.19	22.1	13.4	24
ZZ55031		0.20	0.002	0.03	1.20	6.0	<0.2	<10	150	0.45	0.27	0.18	0.26	24.6	4.6	16
ZZ55032		0.22	0.003	0.03	1.79	13.2	<0.2	<10	140	0.50	0.32	0.10	0.24	21.2	9.6	26
ZZ55033		0.22	0.004	0.04	1.99	18.0	<0.2	<10	130	0.78	0.39	0.16	0.21	30.7	21.8	28
ZZ55034		0.14	0.005	0.11	1.45	117.5	<0.2	<10	160	0.85	0.26	0.84	0.26	19.85	14.2	22
ZZ55035		0.16	0.003	0.11	1.52	154.0	<0.2	<10	180	0.84	0.27	0.87	0.24	18.75	16.2	23
ZZ55036		0.16	0.005	0.14	1.53	169.0	<0.2	10	170	0.85	0.29	1.04	0.43	19.35	16.3	23
ZZ55037		0.14	0.004	0.13	1.38	158.0	<0.2	10	190	0.88	0.28	1.24	0.41	19.50	16.1	21
ZZ55038		0.12	0.005	0.12	1.52	187.0	<0.2	10	230	0.83	0.26	1.13	0.49	17.85	18.1	22
ZZ55039		0.20	0.004	0.09	1.99	238	<0.2	<10	200	1.15	0.34	0.93	0.33	23.6	20.8	28
ZZ55040		0.22	0.002	0.11	1.67	117.5	<0.2	<10	210	0.80	0.30	0.88	0.50	17.50	14.1	24
ZZ55041		0.14	0.004	0.10	0.46	43.7	<0.2	<10	80	0.23	0.10	4.38	1.13	6.88	4.2	8
ZZ55042		0.14	0.003	0.21	0.68	82.8	<0.2	<10	140	0.30	0.12	4.26	9.75	10.10	7.5	12
ZZ55043		0.16	0.003	0.63	0.78	82.9	<0.2	10	230	0.69	0.16	3.34	0.47	6.27	5.1	19
ZZ55044		0.16	0.009	0.43	0.70	48.9	<0.2	10	430	0.55	0.11	4.57	0.97	4.24	3.2	15
ZZ55045		0.14	0.011	0.17	0.83	8.0	<0.2	<10	490	0.49	0.13	3.01	1.35	14.40	6.1	21
ZZ55046		0.14	0.009	0.08	0.59	2.6	<0.2	10	250	0.18	0.11	4.05	6.69	6.41	3.9	7
ZZ55047		0.10	0.008	0.06	0.59	1.8	<0.2	<10	170	0.21	0.12	2.50	3.70	7.96	3.9	8
ZZ55048		0.16	0.001	0.09	0.61	2.0	<0.2	<10	270	0.24	0.13	2.34	4.41	9.45	4.4	11
ZZ55049		0.14	<0.001	0.20	1.14	9.2	<0.2	10	280	0.53	0.17	4.25	8.96	13.70	9.1	15
ZZ55050		0.16	0.005	0.20	1.59	23.7	<0.2	<10	490	0.89	0.25	2.38	4.43	20.8	15.2	22



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ55011		1.71	64.7	5.55	4.99	0.07	0.03	0.07	0.052	0.06	9.5	21.5	0.39	1500	1.54	0.01
ZZ55012		0.67	77.4	1.91	2.57	0.05	0.06	0.20	0.022	0.03	8.2	11.7	0.45	850	0.53	0.01
ZZ55013		1.12	69.5	3.86	5.07	0.06	0.07	0.10	0.035	0.08	9.0	36.1	0.78	749	0.59	<0.01
ZZ55014		1.50	53.0	3.34	4.43	<0.05	0.09	0.12	0.027	0.09	5.9	30.0	0.71	430	0.50	0.01
ZZ55015		2.85	54.6	3.02	3.86	<0.05	0.05	0.14	0.033	0.07	5.0	18.6	0.56	680	0.71	<0.01
ZZ55016		1.13	63.9	4.50	5.85	<0.05	0.07	0.05	0.038	0.06	11.1	45.5	0.81	495	0.56	<0.01
ZZ55017		2.79	83.6	4.58	6.41	0.06	0.09	0.16	0.047	0.13	10.8	36.9	0.76	927	1.02	<0.01
ZZ55018		0.85	35.1	3.24	6.75	<0.05	<0.02	0.10	0.031	0.05	8.0	11.6	0.32	445	1.16	<0.01
ZZ55019		3.59	16.5	4.51	9.38	<0.05	0.02	0.03	0.031	0.05	6.5	16.6	0.22	199	1.63	<0.01
ZZ55020		1.93	40.4	2.92	4.39	0.06	0.05	0.08	0.030	0.05	11.5	23.2	0.65	377	1.15	0.01
ZZ55021		2.09	59.1	5.67	5.05	0.06	0.05	0.21	0.069	0.06	13.7	26.4	0.71	3350	1.34	<0.01
ZZ55022		2.40	79.5	3.98	5.10	0.05	0.10	0.23	0.031	0.11	8.6	38.6	0.86	641	0.64	<0.01
ZZ55023		0.85	55.5	3.91	4.96	<0.05	0.11	0.09	0.029	0.10	8.3	44.2	0.96	573	0.58	0.01
ZZ55024		0.98	61.9	4.12	5.80	0.05	0.11	0.10	0.031	0.10	10.6	45.4	0.86	837	0.59	<0.01
ZZ55025		0.94	62.2	3.96	5.35	0.06	0.10	0.11	0.029	0.10	9.5	42.8	0.81	604	0.57	<0.01
ZZ55026		0.99	64.8	4.31	5.33	0.05	0.11	0.10	0.030	0.11	9.9	43.3	0.86	653	0.55	<0.01
ZZ55027		0.92	63.4	4.21	5.51	0.05	0.09	0.09	0.029	0.09	11.0	43.7	0.87	684	0.54	<0.01
ZZ55028		0.85	50.8	3.91	5.38	<0.05	0.11	0.10	0.031	0.09	8.8	42.1	0.82	378	0.53	<0.01
ZZ55029		0.92	62.3	3.82	4.94	0.05	0.09	0.13	0.031	0.09	8.8	42.7	0.84	566	0.70	<0.01
ZZ55030		0.65	34.4	3.61	4.77	<0.05	0.07	0.04	0.031	0.06	7.9	37.6	0.66	586	0.70	<0.01
ZZ55031		0.76	18.1	2.67	5.69	<0.05	<0.02	0.01	0.027	0.03	10.8	15.2	0.19	325	1.00	<0.01
ZZ55032		1.11	17.9	4.49	6.76	<0.05	0.04	0.02	0.032	0.04	9.7	49.1	0.43	258	1.26	<0.01
ZZ55033		1.28	40.6	5.03	5.86	0.06	0.06	0.06	0.042	0.04	9.1	51.0	0.65	1370	0.85	<0.01
ZZ55034		3.23	65.1	3.72	4.54	0.05	0.08	0.22	0.032	0.08	8.5	31.1	0.62	428	0.74	<0.01
ZZ55035		2.69	64.7	3.86	4.59	0.05	0.08	0.23	0.035	0.08	8.0	31.4	0.66	519	0.82	<0.01
ZZ55036		2.75	68.4	4.18	4.68	0.06	0.10	0.20	0.040	0.09	7.6	29.8	0.72	545	0.82	0.01
ZZ55037		2.82	69.8	3.70	4.15	0.06	0.07	0.25	0.037	0.08	8.3	28.6	0.68	679	0.75	0.01
ZZ55038		2.47	65.5	3.83	4.72	0.05	0.09	0.22	0.032	0.08	7.4	33.2	0.73	1660	0.96	<0.01
ZZ55039		2.87	65.6	4.98	6.29	0.05	0.09	0.14	0.047	0.11	9.5	46.8	0.86	742	1.02	0.01
ZZ55040		1.67	54.7	3.93	5.83	<0.05	0.05	0.06	0.035	0.08	7.3	42.1	0.60	607	1.22	<0.01
ZZ55041		0.42	12.7	0.76	1.38	<0.05	0.07	0.14	0.013	0.05	12.9	2.6	0.09	494	2.13	0.01
ZZ55042		0.83	15.3	1.17	1.93	0.05	0.03	0.15	0.013	0.04	15.1	1.9	0.04	1090	1.66	0.01
ZZ55043		0.86	23.9	1.68	1.89	<0.05	0.06	0.21	0.025	0.05	11.1	3.2	0.06	156	1.21	0.01
ZZ55044		0.89	27.4	1.15	1.62	<0.05	0.10	0.30	0.020	0.04	8.5	2.6	0.05	125	1.19	0.01
ZZ55045		0.42	26.4	1.39	2.33	0.05	0.04	0.12	0.019	0.04	19.0	4.7	0.15	482	0.86	0.01
ZZ55046		0.32	11.5	0.84	1.47	<0.05	0.03	0.17	0.012	0.03	7.5	1.8	0.07	1290	1.19	0.01
ZZ55047		0.45	9.8	0.76	1.72	<0.05	0.04	0.15	0.011	0.04	7.1	1.1	0.04	142	0.55	0.01
ZZ55048		0.46	11.2	0.90	1.81	<0.05	0.03	0.22	0.013	0.03	8.5	1.4	0.04	504	0.58	0.01
ZZ55049		0.93	18.2	1.72	2.92	0.05	0.02	0.09	0.027	0.05	9.2	6.5	0.19	787	1.26	0.01
ZZ55050		0.71	25.0	2.51	4.32	0.06	0.06	0.09	0.037	0.08	17.7	7.6	0.24	539	2.42	0.01

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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ55011		0.43	29.6	810	44.1	8.5	0.001	0.03	0.65	9.9	1.5	0.7	28.6	<0.01	0.09	2.7
ZZ55012		0.25	16.6	1440	8.3	3.9	0.001	0.17	0.51	2.6	3.6	0.2	132.0	<0.01	0.04	0.4
ZZ55013		0.19	32.2	600	14.8	6.1	0.001	0.05	0.52	7.3	1.5	0.3	48.8	<0.01	0.08	1.8
ZZ55014		0.20	23.8	730	11.6	7.0	0.001	0.11	0.42	5.0	2.1	0.3	74.3	<0.01	0.06	1.2
ZZ55015		0.39	20.0	890	9.9	8.3	0.001	0.10	0.46	5.1	2.7	0.4	70.3	<0.01	0.06	0.8
ZZ55016		0.10	35.9	150	16.5	7.3	<0.001	0.01	0.45	5.2	0.7	0.4	8.4	<0.01	0.06	4.0
ZZ55017		0.25	35.4	1060	17.9	10.1	0.001	0.05	0.51	8.9	2.3	0.6	52.3	<0.01	0.07	2.4
ZZ55018		0.31	15.4	540	12.3	6.4	<0.001	0.02	0.34	3.5	0.6	0.6	13.5	<0.01	0.08	1.5
ZZ55019		0.95	11.7	300	12.6	8.3	<0.001	0.01	0.61	2.4	0.4	1.0	4.1	<0.01	0.13	2.4
ZZ55020		0.67	27.0	550	10.6	7.2	<0.001	0.04	0.65	5.9	1.6	0.5	33.2	<0.01	0.03	2.2
ZZ55021		0.37	26.4	710	26.2	6.0	0.001	0.08	0.74	10.0	2.6	0.4	54.9	<0.01	0.07	1.6
ZZ55022		0.18	30.0	660	15.2	7.7	<0.001	0.06	0.67	6.8	2.4	0.3	49.7	<0.01	0.06	1.9
ZZ55023		0.13	31.2	490	15.4	5.3	<0.001	0.06	0.53	5.4	1.1	0.3	149.0	<0.01	0.06	2.8
ZZ55024		0.14	35.8	490	15.0	6.5	<0.001	0.04	0.52	7.2	1.3	0.4	54.3	<0.01	0.05	3.1
ZZ55025		0.13	33.5	560	14.3	6.2	<0.001	0.04	0.56	6.3	1.0	0.3	54.5	<0.01	0.06	2.8
ZZ55026		0.11	32.9	570	14.7	5.8	<0.001	0.03	0.56	7.1	1.2	0.3	45.9	<0.01	0.04	3.5
ZZ55027		0.12	35.4	520	15.5	5.8	<0.001	0.03	0.50	7.3	1.2	0.3	40.7	<0.01	0.06	3.4
ZZ55028		0.14	29.0	590	14.7	6.2	0.002	0.07	0.43	6.5	1.1	0.3	53.1	<0.01	0.06	2.8
ZZ55029		0.18	29.2	800	14.5	6.7	0.001	0.11	0.37	5.8	3.0	0.3	95.2	<0.01	0.04	1.7
ZZ55030		0.27	26.9	450	12.8	7.4	<0.001	0.03	0.45	5.4	0.8	0.3	38.9	<0.01	0.07	2.1
ZZ55031		0.74	9.3	230	11.6	5.1	<0.001	0.01	0.40	2.9	0.4	0.6	14.7	<0.01	0.03	2.9
ZZ55032		0.91	19.0	300	15.5	10.1	<0.001	0.01	0.61	2.8	0.4	0.6	9.9	<0.01	0.04	3.4
ZZ55033		0.35	31.3	630	27.4	7.0	0.001	0.02	0.63	5.0	0.9	0.4	16.0	<0.01	0.06	4.4
ZZ55034		0.23	30.1	770	16.8	10.4	0.001	0.06	0.53	8.2	2.2	0.4	65.0	<0.01	0.10	2.3
ZZ55035		0.21	30.0	720	17.3	10.2	0.001	0.07	0.54	7.6	2.3	0.3	68.2	<0.01	0.07	1.9
ZZ55036		0.21	31.9	760	16.6	10.2	0.002	0.09	0.54	8.3	2.1	0.4	79.4	<0.01	0.08	2.2
ZZ55037		0.21	29.8	800	19.3	10.6	0.002	0.10	0.51	8.1	3.3	0.4	99.8	<0.01	0.06	1.8
ZZ55038		0.21	33.0	820	13.7	9.2	0.001	0.08	0.51	6.8	2.8	0.4	99.0	<0.01	0.07	1.8
ZZ55039		0.26	36.2	650	18.6	12.7	<0.001	0.03	0.55	8.6	1.9	0.5	80.4	<0.01	0.09	2.9
ZZ55040		0.30	26.4	590	15.5	10.1	0.001	0.03	0.43	4.8	1.4	0.5	63.5	<0.01	0.05	2.0
ZZ55041		0.22	15.4	1550	5.1	3.4	0.001	0.18	0.64	1.6	1.7	0.2	28.2	<0.01	0.01	0.3
ZZ55042		0.29	15.3	1730	6.5	4.5	<0.001	0.21	0.54	1.2	2.2	0.3	34.2	<0.01	0.01	<0.2
ZZ55043		0.13	26.9	1340	7.9	6.3	0.001	0.17	0.55	1.6	3.2	0.5	35.3	<0.01	0.01	0.3
ZZ55044		0.11	23.5	1800	5.8	5.5	0.008	0.24	0.60	1.1	4.5	0.4	38.5	<0.01	0.02	0.3
ZZ55045		0.31	73.6	1680	14.5	4.0	0.001	0.23	0.62	1.3	2.1	0.4	33.4	<0.01	0.05	0.3
ZZ55046		0.25	27.2	1900	5.8	2.7	0.001	0.24	0.36	0.5	1.4	0.6	32.8	<0.01	0.02	<0.2
ZZ55047		0.34	13.6	1040	5.7	3.0	0.001	0.22	0.32	1.2	0.9	0.3	32.4	<0.01	0.01	0.3
ZZ55048		0.33	28.7	1400	6.9	4.1	<0.001	0.20	0.36	1.2	1.0	0.3	34.1	<0.01	0.03	0.2
ZZ55049		0.50	32.8	1690	14.9	10.1	<0.001	0.23	0.70	0.7	1.0	0.4	29.1	<0.01	0.04	0.2
ZZ55050		0.62	99.0	1840	28.7	9.2	0.001	0.16	1.07	2.2	1.4	0.6	25.6	0.01	0.11	0.7

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55011		0.012	0.13	0.92	54	0.09	17.60	89	0.9
ZZ55012		0.007	0.06	1.86	20	0.07	14.50	43	1.5
ZZ55013		0.007	0.06	0.97	38	0.06	10.95	84	2.2
ZZ55014		0.005	0.06	0.98	33	0.05	8.25	82	2.3
ZZ55015		0.010	0.09	0.89	32	0.08	8.86	55	1.5
ZZ55016		<0.005	0.07	0.32	43	<0.05	3.78	63	2.6
ZZ55017		0.005	0.10	1.36	47	0.07	17.50	83	2.3
ZZ55018		0.010	0.06	0.41	63	0.08	3.29	40	<0.5
ZZ55019		0.018	0.12	0.32	64	0.22	2.43	39	1.0
ZZ55020		0.030	0.08	1.36	40	0.16	9.96	70	1.3
ZZ55021		0.011	0.09	0.67	76	0.08	16.60	95	1.4
ZZ55022		0.005	0.08	1.65	37	<0.05	11.20	81	2.8
ZZ55023		<0.005	0.05	0.59	32	<0.05	8.36	79	3.5
ZZ55024		<0.005	0.07	0.65	37	<0.05	11.55	82	3.5
ZZ55025		<0.005	0.06	0.84	35	<0.05	9.95	82	3.0
ZZ55026		<0.005	0.05	0.73	38	<0.05	10.20	88	3.3
ZZ55027		0.005	0.05	0.57	38	<0.05	10.60	84	3.2
ZZ55028		<0.005	0.05	0.91	37	<0.05	9.26	89	3.0
ZZ55029		0.005	0.06	1.83	37	0.06	10.40	90	2.7
ZZ55030		0.009	0.06	2.49	38	0.05	6.19	71	1.6
ZZ55031		0.018	0.08	1.23	45	0.17	3.35	27	0.7
ZZ55032		0.017	0.08	0.67	55	0.20	2.81	68	1.9
ZZ55033		0.008	0.09	0.68	40	0.07	6.31	81	1.9
ZZ55034		0.006	0.41	4.05	36	0.06	12.30	95	2.2
ZZ55035		0.005	0.45	5.32	37	0.08	12.15	100	2.2
ZZ55036		0.006	0.43	4.85	38	0.05	11.80	118	2.3
ZZ55037		0.006	0.46	4.44	35	0.05	13.60	101	2.1
ZZ55038		0.006	0.42	5.42	37	<0.05	11.15	92	2.3
ZZ55039		0.006	0.42	4.64	50	0.07	11.15	112	2.2
ZZ55040		0.007	0.19	6.61	47	0.08	6.07	68	1.3
ZZ55041		0.011	0.08	1.31	16	0.05	28.0	126	2.0
ZZ55042		0.010	0.09	2.56	25	0.05	30.1	120	0.7
ZZ55043		<0.005	0.10	2.28	27	<0.05	29.4	95	1.8
ZZ55044		<0.005	0.13	1.84	22	<0.05	22.0	78	2.4
ZZ55045		0.008	0.07	4.03	52	0.07	43.6	308	1.0
ZZ55046		0.010	0.05	3.80	24	<0.05	16.45	290	1.0
ZZ55047		0.017	0.06	1.53	18	<0.05	13.05	163	1.4
ZZ55048		0.015	0.06	1.47	28	0.06	13.95	249	1.0
ZZ55049		0.013	0.11	0.37	38	0.10	14.75	452	0.7
ZZ55050		0.014	0.15	0.71	67	0.14	25.7	303	1.5



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55051		0.06	0.007	0.31	0.67	9.3	<0.2	10	390	0.40	0.09	3.79	1.98	7.16	4.7	10
ZZ55052		0.14	0.003	0.70	1.03	19.9	<0.2	10	800	0.75	0.17	2.60	1.14	16.20	7.1	19
ZZ55053		0.12	0.013	1.63	0.63	20.1	<0.2	10	1460	0.59	0.14	3.00	1.15	8.95	4.9	17
ZZ55054		0.14	0.007	1.03	0.86	14.7	<0.2	10	1540	0.61	0.12	3.84	2.08	9.63	5.2	17
ZZ55055		0.18	0.008	0.93	0.57	18.1	<0.2	10	1160	0.63	0.13	2.64	2.15	13.55	6.3	13
ZZ55056		0.26	0.008	1.17	0.81	30.5	<0.2	<10	1450	0.96	0.16	1.33	2.50	23.2	10.8	17
ZZ55057		0.20	0.004	1.11	0.63	31.4	<0.2	<10	1200	0.68	0.13	1.77	2.54	15.55	9.5	16
ZZ55058		0.20	0.005	0.80	0.50	28.7	<0.2	<10	1230	0.56	0.14	1.15	2.66	11.30	7.0	14
ZZ55059		0.18	0.005	0.79	0.97	21.1	<0.2	<10	980	0.78	0.14	1.20	1.94	26.2	9.8	21
ZZ55060		0.24	0.002	0.24	2.35	29.9	<0.2	<10	320	0.97	0.16	0.27	1.16	58.4	38.5	65
ZZ55061		0.10	0.013	0.89	0.57	15.7	<0.2	10	920	0.62	0.13	2.13	3.21	11.35	6.6	15
ZZ55062		0.12	0.006	0.70	0.84	12.5	<0.2	10	610	0.65	0.08	3.33	3.18	22.5	7.3	16
ZZ55063		0.16	0.013	0.61	0.82	17.5	<0.2	<10	740	0.65	0.12	1.72	2.72	22.5	8.9	18
ZZ55064		0.10	0.007	0.99	0.77	18.9	<0.2	10	690	0.72	0.14	2.48	3.79	19.80	10.2	17
ZZ55065		0.12	0.017	0.88	0.65	13.7	<0.2	<10	660	0.59	0.12	2.96	3.38	17.90	12.0	14
ZZ55066		0.12	0.019	0.55	0.64	12.5	<0.2	10	540	0.58	0.11	3.23	4.21	15.85	7.7	14
ZZ55067		0.16	0.004	0.38	0.57	12.6	<0.2	10	370	0.66	0.12	1.96	2.76	15.95	7.4	13
ZZ55068		0.12	0.003	0.47	0.61	18.8	<0.2	10	470	0.55	0.11	1.72	2.78	18.55	8.7	13
ZZ55069		0.14	0.060	0.25	0.91	9.0	<0.2	<10	490	0.72	0.15	2.47	0.94	14.35	7.9	15
ZZ55070		0.16	0.004	0.33	0.87	16.3	<0.2	<10	320	0.60	0.21	1.22	0.31	11.05	8.6	19
ZZ55071		0.20	0.004	0.24	0.78	16.3	<0.2	<10	310	0.87	0.24	0.96	0.54	15.70	11.9	15
ZZ55072		0.14	0.033	0.30	1.07	12.7	<0.2	<10	520	0.78	0.19	1.34	0.55	14.15	9.8	17
ZZ55073		0.14	0.008	0.32	0.84	10.3	<0.2	<10	340	0.75	0.20	1.40	0.63	14.45	12.3	14
ZZ55074		0.14	0.007	0.27	0.55	4.9	<0.2	<10	320	0.54	0.17	2.43	0.14	5.63	5.9	6
ZZ55075		0.10	0.013	0.14	0.57	4.3	<0.2	10	270	0.52	0.12	2.74	0.19	5.20	5.5	6
ZZ55076		0.18	0.003	0.11	0.73	10.5	<0.2	<10	230	0.52	0.19	1.01	0.20	7.38	10.5	11
ZZ55077		0.22	0.003	0.12	0.83	8.5	<0.2	<10	230	0.68	0.17	1.48	0.25	8.77	10.0	12
ZZ55078		0.22	0.006	0.08	1.64	13.6	<0.2	<10	540	0.93	0.20	0.44	0.48	16.10	10.3	22
ZZ55079		0.20	0.005	0.06	1.26	16.0	<0.2	<10	230	0.65	0.21	0.34	0.41	10.90	10.2	22
ZZ55080		0.22	0.003	0.03	1.13	12.4	<0.2	<10	170	0.38	0.20	0.16	0.26	17.90	5.4	18
ZZ55081		0.22	0.003	0.04	1.19	11.0	<0.2	<10	180	0.41	0.21	0.18	0.38	18.70	5.3	17
ZZ55082		0.20	0.003	0.03	1.40	17.3	<0.2	<10	260	0.91	0.30	0.41	0.22	13.30	12.6	23
ZZ55083		0.18	0.004	0.16	1.11	16.6	<0.2	<10	420	0.91	0.24	1.09	0.51	15.45	13.1	20
ZZ55084		0.16	0.008	0.17	0.85	11.5	<0.2	<10	480	0.65	0.16	3.12	0.71	13.15	7.8	14
ZZ55085		0.24	0.005	0.22	1.19	16.9	<0.2	<10	260	0.92	0.28	0.62	0.58	19.30	15.2	23
ZZ55086		0.22	0.045	0.11	1.10	15.2	<0.2	<10	1150	0.71	0.18	2.46	0.45	14.80	7.2	16
ZZ55087		0.14	0.006	0.15	0.86	16.7	<0.2	10	390	0.70	0.18	1.48	0.60	9.85	9.7	14
ZZ55088		0.18	0.005	0.14	0.78	18.7	<0.2	10	430	0.70	0.18	1.00	1.12	11.80	11.1	15
ZZ55089		0.24	0.004	0.23	0.78	25.2	<0.2	<10	490	0.68	0.17	3.23	1.30	14.35	11.4	14
ZZ55090		0.12	0.006	0.20	0.75	12.2	<0.2	10	480	0.57	0.16	2.37	0.75	10.60	10.0	13

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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55051		0.51	14.7	0.97	1.72	<0.05	0.04	0.13	0.017	0.05	6.0	3.5	0.10	314	1.82	0.01
ZZ55052		0.68	27.6	1.81	3.00	0.06	0.05	0.28	0.027	0.06	11.4	7.3	0.20	446	2.16	0.01
ZZ55053		0.50	31.2	1.55	1.77	0.05	0.05	0.27	0.026	0.05	6.0	4.4	0.15	140	5.13	0.01
ZZ55054		0.37	26.9	1.31	2.24	0.05	0.06	0.26	0.022	0.05	6.4	5.9	0.15	245	2.75	0.01
ZZ55055		0.48	45.6	1.66	1.67	0.05	0.04	0.26	0.025	0.06	6.5	4.2	0.11	231	2.65	0.01
ZZ55056		0.72	56.2	2.26	2.35	0.06	0.05	0.36	0.035	0.08	10.0	5.8	0.10	310	4.25	<0.01
ZZ55057		0.51	56.6	2.15	2.03	0.06	0.04	0.25	0.030	0.06	6.8	4.4	0.13	392	5.14	0.01
ZZ55058		0.70	45.8	2.20	1.90	0.07	0.04	0.23	0.031	0.07	5.2	2.6	0.07	307	6.29	0.01
ZZ55059		0.59	43.2	2.32	3.22	0.08	0.04	0.23	0.036	0.09	10.7	11.5	0.26	423	3.29	0.01
ZZ55060		1.96	31.3	5.43	9.46	0.09	0.04	0.04	0.056	0.13	23.6	49.1	0.95	783	6.22	0.01
ZZ55061		0.57	41.5	1.80	1.82	0.06	0.05	0.24	0.028	0.06	5.5	4.4	0.13	263	4.71	0.01
ZZ55062		0.44	31.6	1.87	2.48	0.06	0.06	0.21	0.026	0.07	11.0	6.9	0.21	146	3.06	0.01
ZZ55063		0.58	32.4	2.37	2.66	0.06	0.05	0.19	0.027	0.09	10.2	9.7	0.27	222	3.77	0.01
ZZ55064		0.56	50.9	2.16	2.47	0.07	0.05	0.25	0.028	0.07	8.6	7.4	0.22	361	4.92	0.01
ZZ55065		0.40	36.5	1.79	2.10	0.06	0.07	0.21	0.027	0.07	8.4	6.1	0.20	724	3.11	0.01
ZZ55066		0.51	34.5	1.74	1.95	0.05	0.06	0.23	0.023	0.07	7.9	5.6	0.20	274	4.65	0.01
ZZ55067		0.70	29.8	1.99	1.83	0.06	0.05	0.28	0.026	0.08	7.2	6.1	0.26	238	3.49	0.01
ZZ55068		0.58	29.5	2.22	2.02	0.07	0.05	0.18	0.026	0.09	8.1	6.5	0.19	210	3.52	0.01
ZZ55069		0.48	20.6	2.13	2.50	0.05	0.04	0.41	0.027	0.06	6.5	8.0	0.21	483	1.39	0.01
ZZ55070		0.81	18.9	2.47	3.06	<0.05	0.03	0.83	0.037	0.07	4.9	8.0	0.20	288	2.78	0.01
ZZ55071		0.80	32.8	3.18	2.33	<0.05	0.04	0.88	0.038	0.08	6.4	8.9	0.22	352	3.82	0.01
ZZ55072		0.57	21.8	2.75	2.84	<0.05	0.04	0.56	0.032	0.07	5.9	9.3	0.26	293	3.21	0.01
ZZ55073		0.53	22.7	2.85	2.32	<0.05	0.04	0.36	0.031	0.07	5.7	8.4	0.27	495	4.04	0.01
ZZ55074		0.39	19.3	1.78	1.40	<0.05	0.03	0.11	0.027	0.06	2.2	3.6	0.27	409	1.79	0.02
ZZ55075		0.41	20.5	1.46	1.28	<0.05	0.03	0.12	0.021	0.06	2.3	2.7	0.29	279	0.87	0.01
ZZ55076		0.52	16.2	2.94	2.08	<0.05	0.03	0.14	0.033	0.07	2.9	7.1	0.24	454	1.92	0.01
ZZ55077		0.39	23.4	2.69	2.18	<0.05	0.04	0.16	0.033	0.08	3.8	8.5	0.31	485	1.40	0.01
ZZ55078		0.79	18.7	3.43	4.73	<0.05	0.03	0.08	0.034	0.06	5.7	16.3	0.28	790	1.86	0.01
ZZ55079		0.59	15.6	3.55	4.09	<0.05	0.04	0.06	0.033	0.08	4.7	17.5	0.33	377	2.16	0.01
ZZ55080		0.89	9.6	2.40	4.34	<0.05	0.02	0.02	0.021	0.06	7.8	12.7	0.19	225	1.39	0.01
ZZ55081		0.87	8.9	2.36	4.83	<0.05	0.02	0.03	0.023	0.06	8.7	13.4	0.19	168	1.58	0.01
ZZ55082		0.82	29.9	3.86	4.47	<0.05	0.04	0.23	0.041	0.08	5.4	18.2	0.34	371	1.55	0.01
ZZ55083		1.04	35.7	3.22	3.45	0.06	0.07	0.28	0.029	0.11	6.8	16.3	0.39	525	1.68	0.01
ZZ55084		0.69	28.6	2.28	2.50	<0.05	0.03	0.38	0.026	0.06	5.8	10.2	0.43	342	1.36	0.01
ZZ55085		1.29	37.3	3.51	3.90	<0.05	0.08	0.26	0.036	0.11	7.8	17.7	0.41	547	1.69	0.01
ZZ55086		0.53	18.1	2.49	3.59	<0.05	0.04	0.28	0.027	0.05	6.3	12.4	0.70	369	1.11	0.01
ZZ55087		0.75	24.3	2.38	2.99	<0.05	0.04	0.14	0.027	0.07	4.4	13.1	0.32	291	2.52	0.01
ZZ55088		0.73	29.1	2.53	2.74	0.05	0.07	0.18	0.034	0.08	5.4	12.8	0.34	319	3.48	0.01
ZZ55089		0.97	30.9	2.75	2.63	0.05	0.05	0.19	0.029	0.08	6.2	14.1	1.11	406	3.24	0.01
ZZ55090		0.65	24.1	2.15	2.55	<0.05	0.05	0.21	0.023	0.08	4.7	11.9	0.36	384	1.18	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ55051	0.28	42.6	1390	9.7	5.1	0.001	0.22	0.66	0.6	1.6	0.3	35.7	<0.01	0.04	0.2	
ZZ55052	0.45	46.0	1200	20.1	6.7	0.002	0.14	1.00	2.0	2.2	0.5	41.1	<0.01	0.05	0.6	
ZZ55053	0.18	51.6	960	15.5	5.3	0.007	0.15	2.05	1.9	5.6	0.5	60.5	<0.01	0.06	0.6	
ZZ55054	0.31	40.0	1170	16.4	3.1	0.016	0.19	1.49	1.8	5.5	0.4	71.5	<0.01	0.03	0.5	
ZZ55055	0.20	47.7	1340	17.3	5.0	0.007	0.13	2.22	2.3	3.5	0.4	73.9	<0.01	0.05	0.7	
ZZ55056	0.22	70.2	1280	29.0	6.9	0.003	0.07	2.75	6.0	3.8	0.5	68.0	<0.01	0.04	2.5	
ZZ55057	0.24	69.7	1320	30.8	5.6	0.005	0.09	3.63	4.6	3.4	0.5	86.7	<0.01	0.07	1.6	
ZZ55058	0.16	48.3	1530	23.8	6.1	0.006	0.07	3.55	3.8	4.7	0.5	82.9	<0.01	0.06	1.9	
ZZ55059	0.28	55.8	1130	34.3	6.7	0.006	0.07	1.99	4.8	3.0	0.6	72.4	<0.01	0.07	2.1	
ZZ55060	0.40	50.0	1240	27.8	12.7	0.001	0.04	1.56	5.6	1.5	1.0	17.6	<0.01	0.03	3.0	
ZZ55061	0.21	52.2	960	14.0	6.6	0.010	0.14	3.11	3.1	4.8	0.4	73.6	<0.01	0.08	1.0	
ZZ55062	0.27	37.3	1100	10.8	5.3	0.004	0.17	2.24	3.3	2.5	0.4	85.0	<0.01	0.03	0.9	
ZZ55063	0.26	47.6	1220	15.2	7.0	0.012	0.09	2.33	3.7	3.0	0.5	67.3	<0.01	0.04	1.8	
ZZ55064	0.25	65.5	1170	17.4	7.3	0.010	0.14	3.36	3.4	5.0	0.5	86.9	<0.01	0.04	0.9	
ZZ55065	0.28	43.4	1080	14.5	7.0	0.012	0.15	2.19	3.5	3.9	0.4	92.7	<0.01	0.02	1.0	
ZZ55066	0.23	52.0	700	10.8	5.5	0.015	0.14	2.67	3.1	5.0	0.4	89.7	<0.01	0.03	0.9	
ZZ55067	0.19	46.3	800	15.9	8.0	0.006	0.09	2.10	2.9	3.3	0.4	67.7	<0.01	0.01	1.4	
ZZ55068	0.20	41.1	1260	14.6	7.0	0.023	0.11	2.09	3.4	4.0	0.4	68.6	<0.01	0.04	1.7	
ZZ55069	0.32	25.4	810	12.2	6.8	0.002	0.12	0.64	2.5	1.2	0.4	66.5	<0.01	0.02	0.8	
ZZ55070	0.34	21.2	610	15.2	9.3	0.001	0.06	0.55	3.4	1.1	0.5	45.7	<0.01	0.04	1.9	
ZZ55071	0.20	37.0	520	20.4	7.5	0.003	0.05	0.72	5.0	2.3	0.5	38.2	<0.01	0.02	2.9	
ZZ55072	0.34	28.1	630	18.3	8.0	0.002	0.08	0.78	4.0	1.2	0.5	39.2	<0.01	0.04	1.8	
ZZ55073	0.29	29.4	690	25.7	7.6	0.005	0.08	0.50	4.0	1.9	0.4	39.6	<0.01	0.03	2.8	
ZZ55074	0.12	18.0	510	12.5	5.5	0.009	0.16	0.40	2.4	4.1	0.4	63.6	<0.01	0.01	1.1	
ZZ55075	0.10	24.9	600	7.1	6.1	0.003	0.21	0.48	1.8	1.0	0.3	63.8	<0.01	0.03	0.8	
ZZ55076	0.15	19.6	600	14.9	7.3	0.006	0.08	0.40	3.4	0.2	0.4	29.4	<0.01	0.03	1.9	
ZZ55077	0.19	25.6	720	13.0	6.5	0.005	0.12	0.48	3.5	0.7	0.4	38.6	<0.01	0.03	1.7	
ZZ55078	0.37	25.6	220	16.0	10.9	<0.001	0.03	0.46	3.9	0.2	0.6	23.3	<0.01	0.03	2.2	
ZZ55079	0.33	24.3	230	18.5	10.8	0.001	0.03	0.59	3.2	0.2	0.6	13.9	<0.01	0.05	2.1	
ZZ55080	0.60	14.7	250	14.5	10.1	0.001	0.02	0.48	2.0	<0.2	0.6	9.9	<0.01	0.01	2.5	
ZZ55081	0.83	14.5	250	12.9	11.1	<0.001	0.03	0.48	1.8	<0.2	0.7	10.6	<0.01	0.02	2.4	
ZZ55082	0.58	31.7	290	22.5	9.7	<0.001	0.03	0.60	4.2	0.2	0.6	17.6	<0.01	0.03	3.1	
ZZ55083	0.44	38.3	720	18.3	8.6	0.001	0.07	0.77	4.8	0.8	0.5	40.8	<0.01	0.03	3.0	
ZZ55084	0.35	27.6	660	13.9	6.6	0.001	0.10	0.73	3.0	1.0	0.4	74.5	<0.01	0.02	0.9	
ZZ55085	0.39	37.4	580	21.2	8.0	0.001	0.04	0.82	5.2	0.9	0.5	26.4	<0.01	0.07	4.1	
ZZ55086	0.51	19.1	520	14.3	6.6	0.001	0.08	0.69	2.6	0.6	0.5	55.1	<0.01	0.03	1.1	
ZZ55087	0.21	28.5	640	13.5	7.8	0.002	0.09	0.87	2.9	0.9	0.4	45.4	<0.01	0.03	1.5	
ZZ55088	0.17	37.4	690	15.2	6.6	0.002	0.10	1.29	3.4	1.8	0.4	45.3	<0.01	0.06	2.2	
ZZ55089	0.17	37.1	860	15.7	6.4	0.002	0.10	1.21	3.6	1.4	0.4	73.9	<0.01	0.06	2.6	
ZZ55090	0.23	27.2	670	12.1	6.7	0.003	0.14	0.82	2.7	2.0	0.4	70.2	<0.01	0.04	1.3	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55051		0.007	0.10	2.44	30	0.07	10.55	254	1.0
ZZ55052		0.008	0.19	3.26	48	0.10	25.5	105	1.2
ZZ55053		<0.005	0.41	2.71	63	0.07	15.95	167	1.8
ZZ55054		0.005	0.29	4.24	70	0.07	14.30	142	1.8
ZZ55055		<0.005	0.23	4.26	64	0.08	15.35	208	1.2
ZZ55056		<0.005	0.29	3.84	93	0.07	24.3	303	1.2
ZZ55057		0.005	0.25	2.61	103	0.06	20.1	354	1.2
ZZ55058		<0.005	0.26	3.17	125	0.05	18.00	300	1.2
ZZ55059		<0.005	0.24	1.98	110	0.08	17.60	278	1.3
ZZ55060		0.007	0.23	0.77	132	<0.05	7.92	229	1.0
ZZ55061		<0.005	0.29	2.48	111	0.05	14.15	282	1.5
ZZ55062		<0.005	0.21	3.34	96	0.05	15.60	184	1.6
ZZ55063		<0.005	0.26	1.93	125	<0.05	16.20	314	1.4
ZZ55064		<0.005	0.31	2.81	132	0.07	17.95	329	1.7
ZZ55065		<0.005	0.21	2.95	126	0.06	16.15	220	2.0
ZZ55066		<0.005	0.21	4.19	117	0.05	15.25	241	2.2
ZZ55067		<0.005	0.21	1.36	107	<0.05	12.55	302	1.5
ZZ55068		<0.005	0.19	2.10	77	0.05	13.85	335	1.4
ZZ55069		<0.005	0.11	1.36	32	0.06	10.15	89	1.2
ZZ55070		0.005	0.14	1.18	36	0.06	5.33	78	1.0
ZZ55071		<0.005	0.16	1.86	32	<0.05	10.95	125	1.3
ZZ55072		<0.005	0.11	1.79	34	0.07	8.05	94	1.1
ZZ55073		<0.005	0.12	1.19	29	0.06	9.42	97	1.4
ZZ55074		<0.005	0.06	1.02	17	<0.05	4.30	21	0.9
ZZ55075		<0.005	0.07	0.46	12	<0.05	5.02	33	1.0
ZZ55076		<0.005	0.09	0.52	24	<0.05	4.64	75	0.8
ZZ55077		<0.005	0.07	0.78	23	<0.05	7.76	87	1.0
ZZ55078		<0.005	0.13	0.52	49	0.08	3.94	112	1.0
ZZ55079		0.005	0.11	0.45	45	0.05	3.18	106	1.2
ZZ55080		0.012	0.12	0.51	49	0.12	2.61	95	0.7
ZZ55081		0.017	0.13	0.48	49	0.20	2.21	84	0.8
ZZ55082		0.006	0.13	0.67	38	0.07	3.98	118	1.3
ZZ55083		0.007	0.13	1.08	32	0.08	9.91	131	2.1
ZZ55084		0.006	0.10	2.12	26	0.07	9.35	97	1.0
ZZ55085		0.011	0.17	0.90	36	0.11	10.45	138	2.8
ZZ55086		0.010	0.12	1.37	43	0.12	6.76	72	1.0
ZZ55087		0.005	0.12	1.08	32	0.10	7.32	141	1.5
ZZ55088		<0.005	0.17	1.69	42	0.05	9.58	208	1.9
ZZ55089		<0.005	0.17	1.21	39	0.06	10.45	214	1.6
ZZ55090		0.005	0.11	2.14	29	<0.05	7.51	131	1.5



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55091		0.18	0.062	0.14	0.82	54.0	<0.2	<10	120	0.36	0.15	1.22	2.71	19.30	4.3	17
ZZ55092		0.22	0.008	0.27	0.34	91.5	<0.2	<10	80	0.29	0.06	6.94	2.82	7.37	3.8	11
ZZ55093		0.18	0.326	0.26	0.54	84.3	<0.2	10	180	0.32	0.09	3.57	0.77	6.96	6.0	12
ZZ55094		0.24	0.007	0.49	1.10	33.0	<0.2	<10	690	0.86	0.17	2.62	0.96	12.20	8.7	20
ZZ55095		0.26	0.010	0.24	0.73	11.4	<0.2	<10	610	0.89	0.28	1.50	0.43	6.43	9.4	26
ZZ55096		0.16	0.614	0.09	0.51	3.5	<0.2	10	420	0.29	0.10	3.79	2.18	8.82	4.6	10
ZZ55097		0.20	0.014	0.09	0.62	2.6	<0.2	<10	420	0.26	0.10	3.86	1.18	6.23	4.7	8
ZZ55098		0.24	0.004	0.23	0.95	14.5	<0.2	10	610	0.73	0.21	4.59	1.82	20.8	28.6	24
ZZ55099		0.18	0.002	0.15	0.50	6.4	<0.2	<10	100	0.17	0.16	0.41	0.63	6.52	4.6	14
ZZ55100		0.18	0.006	0.09	1.43	12.1	<0.2	<10	310	0.72	0.25	3.29	5.21	20.5	16.2	20
ZZ55101		0.16	0.022	0.41	1.66	36.0	<0.2	<10	510	0.87	0.25	1.60	10.50	22.3	12.3	26
ZZ55102		0.20	0.006	1.16	1.34	64.0	<0.2	<10	630	0.76	0.19	1.46	4.58	20.0	9.2	28
ZZ55103		0.16	0.010	1.72	0.58	44.5	<0.2	10	770	0.55	0.15	1.95	1.78	10.70	5.8	17
ZZ55104		0.20	0.007	1.21	0.70	47.9	<0.2	10	1920	0.54	0.13	2.65	1.87	9.85	5.1	17
ZZ55105		0.22	0.006	0.72	0.56	32.2	<0.2	<10	1890	0.65	0.19	0.51	1.61	17.50	7.8	16
ZZ55106		0.22	0.008	0.43	0.48	22.7	<0.2	<10	710	0.39	0.13	0.74	1.76	10.00	7.0	15
ZZ55107		0.18	0.010	1.13	0.70	20.7	<0.2	<10	1330	0.93	0.14	1.17	2.47	20.2	9.2	16
ZZ55108		0.18	0.008	1.78	0.57	18.9	<0.2	<10	1760	0.65	0.15	0.76	10.50	8.99	5.2	14
ZZ55109		0.14	0.038	0.37	0.38	8.3	<0.2	<10	1230	0.35	0.06	3.26	5.28	3.19	1.3	9
ZZ55110		0.14	0.005	0.33	1.76	17.3	<0.2	10	420	1.08	0.20	0.70	1.41	46.8	16.7	28
ZZ55111		0.10	0.175	0.21	1.07	10.7	<0.2	<10	290	0.69	0.10	2.85	0.76	33.8	11.3	16
ZZ55112		0.16	0.101	0.10	0.66	3.7	<0.2	10	230	0.43	0.04	3.56	0.49	26.9	9.9	10
ZZ55113		0.16	0.004	0.26	1.08	8.7	<0.2	<10	270	0.73	0.07	1.88	0.61	53.7	22.3	18
ZZ55114		0.14	0.005	0.31	0.81	9.4	<0.2	10	350	0.65	0.09	2.51	0.95	31.6	14.6	13
ZZ55115		0.18	0.005	0.37	1.10	11.3	<0.2	10	620	0.74	0.09	3.04	0.79	30.8	13.4	14
ZZ55116		0.16	0.006	0.31	0.92	12.4	<0.2	<10	510	0.80	0.14	2.20	1.10	28.5	14.9	14
ZZ55117		0.12	0.109	0.30	0.82	9.9	<0.2	<10	490	0.66	0.12	2.85	1.00	22.7	11.5	12
ZZ55118		0.16	0.007	0.32	0.85	13.5	<0.2	<10	400	0.74	0.16	2.03	1.06	24.4	12.7	14
ZZ55119		0.12	0.005	0.29	0.76	13.2	<0.2	<10	350	0.78	0.16	2.08	1.01	22.1	11.9	12
ZZ55120		0.20	0.004	0.19	0.74	12.7	<0.2	<10	300	0.77	0.19	1.49	0.58	17.55	11.9	12
ZZ55121		0.18	0.004	0.20	0.84	15.4	<0.2	<10	350	0.90	0.26	1.46	0.46	14.15	11.0	14
ZZ55122		0.14	0.005	0.20	0.57	11.5	<0.2	10	260	0.73	0.22	2.52	0.38	12.65	8.9	9
ZZ55123		0.14	0.004	0.16	0.57	10.2	<0.2	<10	260	0.72	0.23	1.58	0.35	11.00	8.6	9
ZZ55124		0.24	0.002	0.15	0.58	12.6	<0.2	<10	170	0.82	0.27	1.27	0.37	15.65	10.8	11
ZZ55125		0.18	0.003	0.14	0.66	12.5	<0.2	10	300	0.72	0.22	1.86	0.44	12.35	8.5	11
ZZ55126		0.28	0.004	0.19	0.92	17.2	<0.2	<10	300	0.89	0.25	1.53	0.59	13.65	13.3	17
ZZ55127		0.18	0.005	0.16	0.79	12.4	<0.2	<10	310	0.72	0.18	2.12	0.51	12.10	9.6	13
ZZ55128		0.16	0.005	0.18	0.66	31.3	<0.2	<10	350	0.80	0.23	1.68	0.34	10.45	10.7	13
ZZ55129		0.16	0.004	0.06	0.63	21.6	<0.2	<10	190	0.91	0.32	0.13	0.31	9.20	17.9	13
ZZ55130		0.18	0.003	0.14	0.92	17.6	<0.2	<10	500	0.85	0.28	0.61	0.41	12.90	14.5	16

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55091		0.85	7.4	1.66	2.97	0.06	<0.02	0.05	0.027	0.04	17.8	5.0	0.06	306	1.25	0.01
ZZ55092		0.39	11.4	0.62	1.10	0.08	0.04	0.15	0.011	0.04	25.8	1.3	0.05	307	2.93	0.01
ZZ55093		0.81	20.3	0.99	1.64	0.06	0.04	0.17	0.015	0.04	9.5	3.8	0.07	293	1.08	0.01
ZZ55094		1.09	27.0	1.99	3.08	<0.05	0.05	0.23	0.028	0.05	9.9	8.2	0.16	697	1.23	0.01
ZZ55095		0.68	25.8	2.99	1.92	<0.05	0.08	0.10	0.044	0.07	4.3	4.7	0.07	266	1.97	0.01
ZZ55096		0.25	17.1	0.80	1.54	0.05	0.06	0.30	0.017	0.06	14.8	2.9	0.12	569	0.73	0.02
ZZ55097		0.24	9.7	0.62	1.95	<0.05	0.07	0.18	0.013	0.02	6.2	1.4	0.05	324	0.75	0.02
ZZ55098		0.80	33.7	2.54	2.98	0.08	0.07	0.13	0.031	0.10	19.1	10.7	0.20	1040	3.54	0.01
ZZ55099		0.71	13.9	1.15	2.56	<0.05	<0.02	0.07	0.020	0.04	3.1	2.8	0.03	73	2.69	0.01
ZZ55100		0.84	15.9	2.39	4.23	<0.05	0.03	0.08	0.035	0.05	14.2	7.4	0.23	830	1.99	0.01
ZZ55101		0.89	13.0	2.68	5.03	<0.05	0.03	0.05	0.031	0.05	12.5	8.2	0.29	642	2.23	0.01
ZZ55102		0.77	20.5	2.34	4.11	<0.05	0.03	0.13	0.032	0.06	10.7	8.6	0.26	435	3.94	0.01
ZZ55103		0.45	40.7	1.75	1.81	0.05	0.05	0.29	0.028	0.08	8.1	4.2	0.10	124	4.55	0.01
ZZ55104		0.50	25.8	1.46	2.21	<0.05	0.05	0.25	0.024	0.04	6.2	4.8	0.12	156	3.82	0.01
ZZ55105		0.56	56.4	2.39	2.16	0.06	0.02	0.11	0.036	0.08	7.4	2.0	0.04	116	6.17	<0.01
ZZ55106		0.68	55.5	2.11	2.06	<0.05	0.03	0.11	0.029	0.06	4.4	1.5	0.05	107	7.69	<0.01
ZZ55107		0.66	64.3	2.01	2.43	0.07	0.04	0.22	0.033	0.07	8.8	3.8	0.10	309	4.51	0.01
ZZ55108		0.54	50.6	1.68	2.00	0.05	0.02	0.33	0.027	0.08	4.3	2.1	0.06	85	6.05	<0.01
ZZ55109		0.35	24.3	0.63	1.32	<0.05	0.06	0.20	0.012	0.03	1.6	1.7	0.11	23	4.04	0.01
ZZ55110		1.17	47.8	3.84	5.77	0.08	0.11	0.06	0.046	0.20	18.4	29.6	0.79	305	5.03	0.01
ZZ55111		0.38	20.9	2.23	3.67	0.06	0.06	0.08	0.026	0.08	16.3	14.8	0.39	478	1.16	0.01
ZZ55112		0.37	14.4	2.16	2.57	0.06	0.04	0.05	0.024	0.09	14.0	9.1	0.27	376	0.87	0.01
ZZ55113		0.36	18.5	4.73	4.32	0.09	0.05	0.07	0.040	0.11	26.3	10.5	0.28	624	2.43	0.01
ZZ55114		0.30	20.9	3.24	2.80	0.06	0.05	0.11	0.031	0.09	15.9	6.9	0.21	823	2.17	0.01
ZZ55115		0.47	19.8	2.79	3.39	0.06	0.05	0.09	0.034	0.05	15.3	6.6	0.19	388	3.00	0.01
ZZ55116		0.33	25.5	3.20	2.93	0.06	0.05	0.29	0.033	0.08	14.3	8.2	0.20	535	1.96	0.01
ZZ55117		0.33	22.4	2.54	2.65	<0.05	0.06	0.29	0.027	0.07	10.1	6.8	0.22	349	1.71	0.01
ZZ55118		0.43	27.7	2.83	2.85	0.05	0.05	0.31	0.037	0.08	11.6	9.5	0.23	443	2.17	0.01
ZZ55119		0.50	25.3	2.74	2.61	<0.05	0.04	0.30	0.031	0.07	9.3	8.4	0.20	426	2.12	0.01
ZZ55120		0.47	22.6	2.79	2.24	<0.05	0.04	0.49	0.034	0.07	6.8	7.9	0.20	528	2.06	0.01
ZZ55121		0.54	27.8	3.13	2.49	0.06	0.06	0.55	0.038	0.08	6.5	11.1	0.29	410	2.08	0.01
ZZ55122		0.99	27.1	2.43	1.65	0.05	0.06	0.34	0.031	0.08	5.3	7.8	0.17	292	1.33	0.01
ZZ55123		0.76	23.6	2.30	1.67	<0.05	0.05	0.26	0.030	0.09	5.2	9.0	0.18	271	1.25	0.01
ZZ55124		0.85	27.2	2.83	1.85	0.06	0.06	0.40	0.033	0.09	6.8	8.9	0.41	327	1.82	0.01
ZZ55125		0.54	23.8	2.53	2.07	<0.05	0.05	0.49	0.032	0.08	5.3	8.7	0.24	311	1.73	0.01
ZZ55126		1.02	36.6	3.45	2.91	0.06	0.07	0.45	0.041	0.09	6.0	15.0	0.75	434	2.08	0.01
ZZ55127		0.50	26.0	2.40	2.51	<0.05	0.06	0.43	0.028	0.08	5.6	11.4	0.46	445	1.28	0.01
ZZ55128		0.96	25.1	2.91	2.03	0.05	0.06	2.15	0.033	0.08	4.3	8.2	0.29	670	1.62	0.01
ZZ55129		0.96	41.8	4.26	1.90	0.07	0.03	0.26	0.048	0.08	3.3	7.9	0.13	626	2.16	0.01
ZZ55130		0.76	34.1	3.31	3.02	0.05	0.06	0.30	0.041	0.09	5.3	11.1	0.27	766	1.68	0.01



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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ55091		0.38	13.1	840	13.2	5.4	<0.001	0.09	0.54	1.5	1.1	0.4	16.5	<0.01	0.05	0.2
ZZ55092		0.09	13.7	2140	4.3	4.4	0.001	0.15	0.81	1.0	2.2	0.2	56.0	<0.01	0.03	0.2
ZZ55093		0.22	24.1	1230	5.4	4.9	0.001	0.17	0.72	0.9	2.7	0.3	38.7	<0.01	0.02	0.2
ZZ55094		0.33	26.2	960	11.7	8.4	0.001	0.12	0.70	2.4	1.8	0.4	41.5	<0.01	0.06	0.7
ZZ55095		0.06	30.2	920	16.1	7.6	0.002	0.15	0.57	3.0	1.6	0.5	24.9	<0.01	0.08	1.2
ZZ55096		0.24	19.0	1750	5.9	2.4	0.001	0.25	0.46	0.8	1.2	0.3	31.5	0.01	0.04	0.2
ZZ55097		0.32	14.7	1190	4.6	1.1	<0.001	0.23	0.44	0.7	0.9	0.2	43.0	0.01	0.03	0.2
ZZ55098		0.27	197.0	1620	18.6	7.3	0.001	0.06	1.23	4.6	2.6	0.5	45.3	<0.01	0.09	2.3
ZZ55099		0.28	55.3	390	9.5	4.6	0.001	0.05	0.72	1.4	2.1	0.6	8.0	<0.01	0.07	0.6
ZZ55100		0.57	80.2	1380	21.1	8.2	<0.001	0.16	0.96	1.4	1.3	0.6	23.4	<0.01	0.10	0.3
ZZ55101		0.67	47.4	770	65.5	7.9	0.001	0.08	0.76	2.3	0.7	0.6	18.4	<0.01	0.08	0.6
ZZ55102		0.49	53.3	1110	70.2	7.2	<0.001	0.09	1.04	2.2	2.7	0.5	24.7	<0.01	0.09	0.7
ZZ55103		0.15	71.5	1020	45.3	5.7	0.003	0.11	1.47	2.4	4.3	0.4	36.8	<0.01	0.10	0.7
ZZ55104		0.19	39.9	900	31.0	4.7	0.005	0.15	1.47	2.1	4.5	0.4	55.2	<0.01	0.07	0.7
ZZ55105		0.15	45.8	1350	12.4	6.6	0.001	0.08	2.75	3.4	2.9	0.6	40.8	<0.01	0.06	1.3
ZZ55106		0.10	57.4	1220	10.5	5.5	0.005	0.05	3.70	3.6	3.6	0.5	57.4	<0.01	0.06	3.0
ZZ55107		0.19	75.2	1330	10.7	7.1	0.004	0.07	2.69	5.6	3.7	0.5	73.2	<0.01	0.06	2.3
ZZ55108		0.11	51.5	1130	8.6	5.8	0.002	0.07	2.96	3.5	4.1	0.5	55.5	<0.01	0.09	0.8
ZZ55109		0.16	67.4	550	2.6	2.6	0.002	0.17	2.87	1.8	2.6	0.3	123.5	<0.01	0.03	0.9
ZZ55110		0.28	56.2	1140	20.3	13.2	0.001	0.04	1.23	6.6	1.3	0.6	24.9	<0.01	0.05	4.0
ZZ55111		0.32	23.2	850	10.5	8.1	0.001	0.12	0.62	3.0	1.3	0.4	67.7	<0.01	0.03	0.8
ZZ55112		0.24	11.7	940	3.4	5.4	0.001	0.13	0.42	4.1	1.0	0.3	70.0	<0.01	0.02	0.6
ZZ55113		0.40	19.2	1150	7.9	7.8	0.001	0.08	0.76	7.0	1.3	0.5	49.9	<0.01	0.03	1.8
ZZ55114		0.33	22.1	1150	7.8	5.4	0.001	0.11	0.92	4.4	1.4	0.4	64.1	<0.01	0.05	1.0
ZZ55115		0.31	20.4	950	9.1	5.6	0.004	0.13	1.19	3.6	1.8	0.5	69.6	<0.01	0.04	0.8
ZZ55116		0.33	27.4	940	11.5	5.7	0.001	0.09	0.88	3.8	1.7	0.4	55.3	<0.01	0.02	1.1
ZZ55117		0.31	23.9	840	10.6	5.9	0.001	0.11	0.77	3.5	1.2	0.4	66.6	<0.01	0.03	1.0
ZZ55118		0.30	27.0	870	14.6	6.4	0.003	0.09	0.95	3.9	1.5	0.5	55.1	<0.01	0.06	1.2
ZZ55119		0.26	28.0	610	14.2	6.7	0.001	0.09	0.88	3.7	1.6	0.4	66.7	<0.01	0.04	1.2
ZZ55120		0.20	24.9	620	16.7	5.8	0.001	0.06	0.60	3.3	0.7	0.4	45.0	<0.01	0.05	1.3
ZZ55121		0.38	30.6	430	24.5	6.8	0.001	0.07	0.56	4.8	1.2	0.4	50.2	<0.01	0.05	2.4
ZZ55122		0.27	27.7	560	20.1	7.1	0.001	0.10	0.52	3.5	1.2	0.3	85.2	<0.01	0.05	1.6
ZZ55123		0.27	24.1	440	19.2	6.9	0.001	0.08	0.45	3.5	0.9	0.3	52.3	<0.01	0.05	1.6
ZZ55124		0.32	30.3	510	24.3	6.9	0.001	0.05	0.43	4.9	0.9	0.4	36.7	<0.01	0.03	3.9
ZZ55125		0.34	25.5	470	20.4	7.3	0.003	0.10	0.46	3.4	1.4	0.3	62.9	<0.01	0.04	1.8
ZZ55126		0.42	40.1	690	22.1	7.8	0.002	0.06	0.65	5.7	1.1	0.4	30.7	<0.01	0.05	3.7
ZZ55127		0.40	27.9	680	16.6	6.6	0.001	0.09	0.57	3.9	1.0	0.3	43.9	<0.01	0.04	1.9
ZZ55128		0.29	25.1	690	33.6	7.2	0.001	0.11	1.00	4.1	1.2	0.4	37.9	<0.01	0.05	1.6
ZZ55129		0.29	43.1	600	27.5	7.8	0.001	0.04	0.56	5.5	0.9	0.5	11.8	<0.01	0.07	3.3
ZZ55130		0.46	36.1	810	19.0	8.7	0.001	0.05	0.63	5.3	1.1	0.4	18.9	<0.01	0.06	3.1



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55091		0.016	0.11	1.59	41	0.08	22.6	96	<0.5
ZZ55092		<0.005	0.10	2.32	17	<0.05	42.0	123	1.1
ZZ55093		0.006	0.12	3.32	23	0.05	20.3	77	1.1
ZZ55094		0.006	0.13	1.55	34	0.13	21.1	102	1.7
ZZ55095		<0.005	0.16	1.27	25	<0.05	10.90	113	2.1
ZZ55096		0.012	0.07	1.54	23	0.06	27.7	150	1.9
ZZ55097		0.013	0.07	1.36	16	<0.05	13.30	104	2.2
ZZ55098		0.009	0.24	2.14	74	0.12	44.3	697	1.9
ZZ55099		0.007	0.15	0.56	77	0.08	3.56	291	<0.5
ZZ55100		0.016	0.17	1.04	67	0.12	20.8	315	0.8
ZZ55101		0.020	0.22	0.73	70	0.14	13.10	406	0.8
ZZ55102		0.013	0.25	2.36	75	0.13	18.05	337	0.9
ZZ55103		<0.005	0.28	2.68	50	0.08	25.7	298	1.5
ZZ55104		<0.005	0.34	3.50	83	0.12	14.90	200	1.9
ZZ55105		<0.005	0.28	2.38	89	0.05	18.25	337	<0.5
ZZ55106		<0.005	0.27	2.68	127	<0.05	10.80	376	0.8
ZZ55107		<0.005	0.23	2.97	96	0.06	23.2	309	1.1
ZZ55108		<0.005	0.47	3.26	160	0.06	23.0	383	0.7
ZZ55109		<0.005	0.16	1.54	51	<0.05	5.87	370	2.5
ZZ55110		0.006	0.21	0.91	63	0.05	13.80	192	2.9
ZZ55111		0.006	0.10	1.03	40	0.05	9.99	91	1.6
ZZ55112		<0.005	0.06	0.38	37	<0.05	8.58	68	0.9
ZZ55113		<0.005	0.07	1.01	88	<0.05	17.10	99	0.9
ZZ55114		0.005	0.08	1.05	64	<0.05	13.75	106	1.1
ZZ55115		<0.005	0.12	1.35	80	0.05	13.90	82	1.2
ZZ55116		<0.005	0.10	1.85	55	0.27	14.75	104	1.0
ZZ55117		<0.005	0.08	1.49	54	0.05	10.90	98	1.2
ZZ55118		<0.005	0.12	1.62	57	0.06	12.65	132	1.3
ZZ55119		<0.005	0.11	1.24	47	0.05	11.20	112	1.2
ZZ55120		<0.005	0.12	1.56	32	0.12	10.20	105	1.1
ZZ55121		<0.005	0.14	1.16	29	0.09	10.65	115	1.4
ZZ55122		<0.005	0.12	1.51	17	0.05	10.10	89	1.9
ZZ55123		<0.005	0.10	1.04	18	0.07	8.49	89	1.3
ZZ55124		<0.005	0.22	0.76	18	0.05	10.40	110	1.9
ZZ55125		<0.005	0.25	1.57	19	0.06	7.83	111	1.5
ZZ55126		<0.005	0.17	1.01	30	0.06	11.35	152	2.1
ZZ55127		0.005	0.11	1.43	24	0.08	8.94	119	1.7
ZZ55128		<0.005	0.38	3.65	19	0.05	10.20	124	1.4
ZZ55129		<0.005	0.14	0.81	23	<0.05	8.67	153	0.5
ZZ55130		0.005	0.13	1.22	25	0.08	9.76	120	1.4



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55131		0.22	0.003	0.05	1.02	15.3	<0.2	<10	350	0.84	0.31	0.15	0.20	15.35	12.5	19
ZZ55132		0.12	0.003	0.18	0.92	16.6	<0.2	<10	380	0.91	0.25	1.67	0.31	11.55	10.6	16
ZZ55133		0.12	0.006	0.32	0.83	17.1	<0.2	<10	320	0.70	0.23	2.15	0.35	9.55	8.1	16
ZZ55134		0.14	0.004	0.20	0.87	8.5	<0.2	10	340	0.81	0.24	2.02	0.33	12.10	4.2	17
ZZ55135		0.16	0.006	0.18	0.76	15.8	<0.2	10	370	0.80	0.21	2.33	0.36	9.52	9.5	14
ZZ55136		0.18	0.007	0.34	0.95	16.9	<0.2	<10	500	1.00	0.24	1.46	0.64	12.65	13.7	19
ZZ55137		0.14	0.006	0.21	0.87	22.2	<0.2	<10	360	0.82	0.24	1.53	0.56	11.75	11.2	17
ZZ55138		0.20	0.004	0.13	0.92	17.7	<0.2	<10	330	0.90	0.25	1.35	0.41	10.70	13.1	16
ZZ55139		0.16	0.004	0.12	0.85	9.0	<0.2	<10	370	0.88	0.24	1.43	0.42	13.25	6.9	15
ZZ55140		0.16	0.003	0.11	0.71	15.2	<0.2	10	440	0.78	0.22	1.75	0.29	13.10	9.2	13
ZZ55141		0.14	0.001	0.13	0.89	13.6	<0.2	10	340	0.87	0.24	1.77	0.25	13.55	10.1	15
ZZ55142		0.22	0.002	0.16	1.71	14.5	<0.2	<10	260	1.09	0.30	0.25	0.27	23.8	13.9	23
ZZ55143		0.24	0.002	0.25	1.29	12.7	<0.2	<10	260	0.93	0.22	1.84	0.42	15.65	13.2	19
ZZ55144		0.22	0.001	0.05	1.31	13.6	<0.2	<10	300	0.61	0.29	0.51	0.21	16.85	10.2	22
ZZ55145		0.20	0.003	0.27	1.25	11.7	<0.2	<10	300	0.76	0.21	1.70	1.04	14.85	11.8	18
ZZ55146		0.24	0.001	0.21	1.28	11.9	<0.2	10	210	0.95	0.24	1.22	1.10	15.95	11.0	21
ZZ55147		0.14	0.007	0.32	2.02	8.6	<0.2	<10	930	1.00	0.25	1.22	0.25	21.3	11.9	25
ZZ55148		0.16	0.001	0.06	1.54	7.9	<0.2	<10	330	0.47	0.25	0.13	0.34	23.0	7.8	20
ZZ55149		0.20	0.003	0.16	1.97	9.5	<0.2	<10	380	1.36	0.33	0.49	0.86	21.4	15.9	26
ZZ55150		0.22	0.004	0.17	2.77	25.2	<0.2	<10	130	1.65	0.24	0.16	1.42	47.6	15.2	29
ZZ55151		0.18	0.002	0.09	1.90	13.3	<0.2	<10	130	0.43	0.34	0.10	0.23	16.60	12.6	29
ZZ55152		0.28	0.002	0.03	1.74	18.8	<0.2	<10	70	0.62	0.33	0.03	0.23	16.60	15.6	25
ZZ55153		0.22	0.005	0.30	1.72	9.0	<0.2	<10	560	1.35	0.15	2.37	0.44	28.4	10.1	22
ZZ55154		0.18	0.001	0.13	1.60	10.3	<0.2	<10	140	0.73	0.25	0.30	0.39	18.65	14.2	24
ZZ55155		0.20	0.004	0.19	1.73	15.0	<0.2	<10	260	1.03	0.25	1.39	0.23	16.60	14.5	25
ZZ55156		0.22	0.004	0.16	1.61	14.1	<0.2	<10	180	1.03	0.26	1.37	0.31	15.80	14.6	24
ZZ55157		0.22	0.003	0.16	1.20	9.1	<0.2	<10	180	0.66	0.21	1.87	0.32	13.60	13.2	18
ZZ55158		0.18	0.003	0.14	1.31	12.6	<0.2	<10	160	0.79	0.26	1.11	0.20	14.65	13.0	20
ZZ55159		0.20	0.004	0.12	1.16	15.6	<0.2	<10	210	0.93	0.25	1.32	0.41	14.55	17.1	20
ZZ55160		0.28	0.005	0.14	1.14	19.4	<0.2	<10	210	0.79	0.27	1.03	0.40	15.35	18.3	22
ZZ55161		0.22	0.003	0.21	0.91	23.7	<0.2	<10	110	0.93	0.29	0.94	4.08	15.40	15.0	14
ZZ55162		0.22	0.002	0.18	1.18	8.6	<0.2	<10	220	0.54	0.25	1.09	2.14	19.00	9.4	20
ZZ55163		0.18	0.005	0.26	0.84	21.3	<0.2	10	200	0.71	0.20	1.47	8.02	12.55	7.9	14
ZZ55164		0.16	0.004	0.14	0.89	15.4	<0.2	10	210	0.87	0.23	0.86	0.61	10.65	6.3	13
ZZ55165		0.16	0.002	0.08	1.96	18.5	<0.2	<10	70	0.65	0.29	0.03	0.18	18.80	15.5	28
ZZ55166		0.20	0.002	0.03	1.26	11.5	<0.2	<10	90	0.34	0.29	0.05	0.12	24.2	6.5	19
ZZ55167		0.20	0.002	0.04	1.45	11.1	<0.2	<10	140	0.53	0.29	0.08	0.19	28.3	8.7	22
ZZ55168		0.20	0.002	0.06	1.40	25.4	<0.2	<10	120	0.78	0.33	0.09	0.24	27.2	16.6	25
ZZ55169		0.22	0.007	0.19	0.54	51.4	<0.2	<10	110	0.84	0.22	1.97	0.31	9.25	14.5	11
ZZ55170		0.24	0.005	0.24	1.19	14.0	<0.2	<10	120	0.69	0.25	1.31	0.23	17.25	10.3	21





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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ55131		0.72	33.5	3.67	3.45	0.07	0.03	0.14	0.039	0.07	6.9	13.2	0.26	372	1.63	0.01
ZZ55132		0.64	31.4	2.92	2.78	0.05	0.06	0.50	0.037	0.09	5.2	11.7	0.34	432	1.37	0.01
ZZ55133		0.74	21.7	2.35	2.66	0.05	0.05	0.57	0.029	0.09	4.6	11.1	0.34	306	1.24	0.01
ZZ55134		0.61	25.2	1.89	2.67	<0.05	0.06	0.66	0.036	0.09	5.6	12.5	0.35	91	0.81	0.01
ZZ55135		0.58	26.8	2.70	2.25	0.05	0.05	0.35	0.031	0.07	4.3	9.2	0.31	645	1.58	0.01
ZZ55136		0.75	32.5	2.31	2.90	0.06	0.07	0.41	0.037	0.09	5.7	12.3	0.29	211	2.88	0.01
ZZ55137		0.70	26.2	3.03	2.72	0.06	0.06	0.38	0.033	0.08	5.5	12.6	0.31	470	3.78	0.01
ZZ55138		0.77	29.5	3.08	2.92	0.05	0.06	0.25	0.037	0.08	4.6	14.2	0.33	415	2.47	0.01
ZZ55139		0.55	27.3	1.81	2.55	0.05	0.05	0.36	0.033	0.09	5.6	13.6	0.31	89	1.56	0.01
ZZ55140		0.67	21.9	2.78	2.24	0.06	0.06	0.45	0.031	0.10	5.6	12.4	0.50	382	1.32	0.01
ZZ55141		0.60	23.9	2.73	2.66	0.06	0.06	0.44	0.034	0.10	6.1	13.8	0.36	497	1.32	0.01
ZZ55142		2.21	37.9	3.62	5.43	0.07	0.07	0.12	0.042	0.08	10.4	24.0	0.33	766	1.05	0.01
ZZ55143		1.89	44.3	2.86	3.86	0.06	0.06	0.16	0.038	0.08	7.3	16.5	0.33	663	1.09	0.01
ZZ55144		1.15	24.9	3.16	5.39	0.05	0.04	0.04	0.037	0.06	7.5	16.3	0.29	489	1.23	0.01
ZZ55145		1.19	32.7	2.70	3.90	0.05	0.06	0.13	0.032	0.07	7.0	16.8	0.45	787	0.98	0.01
ZZ55146		3.81	55.1	2.98	3.67	0.08	0.08	0.12	0.046	0.10	7.1	22.3	0.54	212	0.76	0.01
ZZ55147		2.04	33.2	3.04	6.09	0.09	0.07	0.14	0.043	0.05	12.5	18.9	0.36	1620	1.20	0.01
ZZ55148		1.29	21.2	3.00	6.97	0.06	0.03	0.03	0.031	0.06	10.9	21.8	0.32	336	1.08	0.01
ZZ55149		2.48	32.2	3.34	6.97	0.07	0.06	0.04	0.042	0.07	9.3	26.3	0.49	1320	1.46	0.01
ZZ55150		1.76	50.3	4.08	4.25	0.11	0.10	0.10	0.060	0.08	12.8	27.2	0.32	592	1.07	0.01
ZZ55151		1.80	39.6	4.06	7.86	0.07	0.02	0.04	0.042	0.06	7.6	16.7	0.42	512	1.41	0.01
ZZ55152		1.33	57.0	5.44	6.44	0.08	0.05	0.04	0.046	0.07	7.7	30.8	0.39	493	1.07	0.01
ZZ55153		2.03	101.5	3.30	3.95	0.22	0.12	0.14	0.037	0.05	24.4	12.7	0.33	2100	0.84	0.01
ZZ55154		2.25	70.0	3.66	6.37	0.08	0.03	0.05	0.057	0.07	7.2	25.4	0.52	675	0.91	0.01
ZZ55155		2.59	90.8	3.91	5.10	0.11	0.13	0.12	0.044	0.12	9.4	30.2	0.71	407	0.76	0.01
ZZ55156		1.76	82.1	3.70	4.65	0.09	0.10	0.15	0.041	0.13	8.2	30.4	0.67	401	0.68	0.01
ZZ55157		1.09	67.8	2.75	3.71	<0.05	0.08	0.14	0.029	0.08	6.0	18.5	0.51	599	0.59	0.01
ZZ55158		1.32	54.5	3.29	4.32	<0.05	0.07	0.12	0.042	0.09	6.2	20.6	0.53	347	0.72	<0.01
ZZ55159		1.21	61.9	3.43	3.72	<0.05	0.06	0.16	0.034	0.09	5.7	16.1	0.45	900	0.79	<0.01
ZZ55160		1.82	67.2	3.78	3.79	0.05	0.05	0.16	0.037	0.08	7.1	19.6	0.58	724	0.83	<0.01
ZZ55161		1.10	48.8	3.37	2.81	<0.05	0.07	0.14	0.034	0.07	6.5	15.2	0.35	462	0.54	<0.01
ZZ55162		1.13	17.8	2.42	4.07	<0.05	0.04	0.16	0.029	0.07	8.2	22.2	0.47	524	0.47	0.01
ZZ55163		2.38	40.4	2.67	2.67	<0.05	0.05	0.29	0.023	0.08	5.6	11.5	0.65	207	0.55	0.01
ZZ55164		2.04	34.1	3.67	2.72	<0.05	0.09	0.15	0.034	0.09	4.4	12.3	0.47	124	0.46	<0.01
ZZ55165		1.34	35.6	4.55	5.72	<0.05	0.08	0.06	0.046	0.05	8.1	30.2	0.36	270	1.23	<0.01
ZZ55166		2.14	12.8	2.84	6.65	<0.05	0.03	0.03	0.022	0.05	11.3	17.3	0.20	205	1.26	<0.01
ZZ55167		1.78	20.0	2.72	5.85	<0.05	0.02	0.03	0.023	0.05	12.1	25.1	0.30	263	1.23	<0.01
ZZ55168		2.53	43.8	4.34	4.94	<0.05	0.02	0.05	0.040	0.07	9.8	25.0	0.36	555	1.00	<0.01
ZZ55169		5.31	49.6	4.52	1.66	<0.05	0.05	0.83	0.040	0.09	4.3	7.8	0.62	1300	2.04	0.01
ZZ55170		3.41	44.8	2.91	3.55	<0.05	0.04	0.24	0.028	0.08	8.0	18.4	0.66	360	0.73	0.01

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ55131		0.59	32.7	470	22.0	7.7	<0.001	0.04	0.50	4.9	0.8	0.5	11.7	<0.01	0.05	3.3
ZZ55132		0.45	31.6	580	17.3	7.5	0.001	0.09	0.56	4.5	1.3	0.4	43.2	<0.01	0.06	1.9
ZZ55133		0.45	20.9	640	15.5	9.0	0.009	0.17	0.88	3.1	2.1	0.4	52.4	<0.01	0.06	1.0
ZZ55134		0.44	21.5	630	17.9	8.8	0.006	0.16	0.57	3.8	2.5	0.4	69.2	<0.01	0.04	1.3
ZZ55135		0.39	28.1	750	14.3	6.5	0.005	0.20	0.63	3.0	1.9	0.3	73.8	<0.01	0.07	0.9
ZZ55136		0.44	35.3	650	18.8	8.7	0.008	0.16	0.81	4.8	2.4	0.4	58.7	<0.01	0.06	2.0
ZZ55137		0.45	29.5	610	18.1	7.9	0.004	0.11	0.67	4.0	1.8	0.4	52.5	<0.01	0.05	1.7
ZZ55138		0.43	34.3	520	18.5	7.1	0.002	0.08	0.58	4.3	1.2	0.4	47.0	<0.01	0.05	2.0
ZZ55139		0.40	25.6	490	20.7	7.3	0.006	0.14	0.53	4.2	1.6	0.4	49.0	<0.01	0.03	1.7
ZZ55140		0.36	21.8	550	18.6	7.2	0.006	0.13	0.42	3.9	1.3	0.3	60.4	<0.01	0.04	2.1
ZZ55141		0.39	25.9	550	18.2	7.7	0.003	0.11	0.44	4.2	1.4	0.4	63.8	<0.01	0.05	1.6
ZZ55142		0.61	21.8	960	23.5	10.1	<0.001	0.09	0.49	5.2	1.1	0.5	19.3	0.01	0.09	1.6
ZZ55143		0.53	22.3	1030	21.4	9.9	<0.001	0.14	0.55	4.2	1.6	0.4	55.6	0.01	0.08	0.7
ZZ55144		0.69	17.0	910	19.0	8.9	<0.001	0.07	0.45	4.1	0.5	0.6	24.1	<0.01	0.07	1.2
ZZ55145		0.55	18.4	1130	16.2	8.7	0.004	0.18	0.45	4.2	2.3	0.4	45.1	<0.01	0.07	0.9
ZZ55146		0.41	24.8	990	26.5	21.1	0.008	0.20	0.39	7.7	4.8	0.4	33.0	0.01	0.07	1.2
ZZ55147		0.77	17.0	1710	31.3	7.1	<0.001	0.12	0.39	7.7	1.8	0.6	46.1	0.01	0.08	1.1
ZZ55148		0.66	12.8	220	57.2	12.5	<0.001	0.03	0.26	3.9	0.3	0.7	9.5	<0.01	0.08	2.6
ZZ55149		0.79	20.1	1170	27.7	13.6	0.001	0.10	0.37	4.2	1.3	0.7	21.1	0.01	0.10	1.2
ZZ55150		0.66	38.0	880	61.2	10.8	0.001	0.07	0.63	9.0	1.3	0.4	10.7	0.01	0.10	4.3
ZZ55151		0.72	18.9	630	18.1	9.3	<0.001	0.05	0.43	4.7	0.6	0.8	8.0	<0.01	0.12	1.6
ZZ55152		0.60	23.8	320	21.8	11.0	<0.001	0.04	0.51	4.6	0.5	0.5	5.2	<0.01	0.12	2.5
ZZ55153		0.35	16.2	2160	9.8	6.8	0.001	0.24	0.45	7.4	8.0	0.3	46.0	0.02	0.09	0.4
ZZ55154		0.41	19.0	870	14.0	7.4	<0.001	0.11	0.45	7.9	0.9	0.5	9.8	<0.01	0.11	1.0
ZZ55155		0.34	30.5	660	15.0	9.7	0.001	0.10	0.53	11.8	2.3	0.4	30.6	0.01	0.10	2.2
ZZ55156		0.32	31.7	640	15.3	8.2	0.001	0.11	0.54	8.8	2.2	0.3	34.1	<0.01	0.10	2.1
ZZ55157		0.28	25.4	730	13.4	7.0	0.001	0.12	0.49	4.8	1.8	0.3	43.8	<0.01	0.06	1.0
ZZ55158		0.28	27.7	620	15.2	7.8	<0.001	0.07	0.41	6.4	1.5	0.3	34.3	<0.01	0.05	1.8
ZZ55159		0.30	28.7	610	16.3	7.5	<0.001	0.08	0.46	6.7	1.7	0.3	41.7	<0.01	0.10	1.4
ZZ55160		0.40	31.1	600	20.0	8.3	<0.001	0.06	0.62	7.9	2.3	0.4	48.4	<0.01	0.09	1.3
ZZ55161		0.19	32.1	360	37.0	6.0	0.001	0.04	0.82	6.2	1.4	0.2	37.2	<0.01	0.06	2.7
ZZ55162		0.67	19.8	750	18.7	9.9	0.001	0.07	0.38	3.9	1.8	0.4	48.3	<0.01	0.02	1.4
ZZ55163		0.44	20.7	1080	36.2	11.3	0.006	0.24	0.76	2.9	7.8	0.3	132.5	<0.01	0.02	0.8
ZZ55164		0.25	14.7	720	26.4	9.4	0.005	0.14	0.25	5.9	4.6	0.3	99.0	<0.01	0.03	1.5
ZZ55165		0.92	30.6	280	16.6	9.8	0.001	0.02	0.51	4.4	0.7	0.5	5.1	0.01	0.08	3.3
ZZ55166		1.43	13.8	180	12.6	12.8	<0.001	0.03	0.42	2.6	<0.2	0.7	6.7	<0.01	0.05	3.2
ZZ55167		0.97	17.9	320	14.0	10.6	<0.001	0.02	0.42	3.2	0.7	0.6	10.0	<0.01	0.03	2.6
ZZ55168		0.82	28.7	270	15.7	12.1	<0.001	0.02	0.58	5.8	0.8	0.5	9.0	<0.01	0.07	3.3
ZZ55169		0.23	27.5	640	18.7	11.4	0.001	0.13	2.95	7.1	3.8	0.2	66.4	<0.01	0.06	1.1
ZZ55170		0.59	26.6	1030	12.4	10.2	0.001	0.12	0.57	5.2	3.1	0.3	67.7	<0.01	0.04	1.0

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55131		0.008	0.12	0.69	31	0.09	8.84	114	0.6
ZZ55132		<0.005	0.13	1.42	25	0.07	9.80	102	1.5
ZZ55133		0.005	0.13	2.06	27	0.06	7.67	70	1.2
ZZ55134		<0.005	0.12	3.03	22	0.05	9.34	68	1.4
ZZ55135		<0.005	0.11	1.99	22	0.06	8.28	74	1.3
ZZ55136		<0.005	0.12	2.67	30	0.07	10.05	112	1.7
ZZ55137		0.005	0.12	1.76	25	0.07	9.80	115	1.4
ZZ55138		<0.005	0.13	1.23	23	0.06	7.99	123	1.5
ZZ55139		<0.005	0.10	2.00	21	0.05	9.09	106	1.5
ZZ55140		0.005	0.10	0.89	18	0.05	8.18	109	1.6
ZZ55141		0.005	0.12	1.44	21	0.06	9.49	109	1.5
ZZ55142		0.012	0.16	1.68	42	0.24	11.85	81	1.6
ZZ55143		0.010	0.13	1.64	34	0.13	10.95	88	1.4
ZZ55144		0.017	0.13	0.75	50	0.17	4.19	82	0.8
ZZ55145		0.010	0.11	1.82	37	0.11	9.27	103	1.3
ZZ55146		0.009	0.11	1.56	36	0.09	12.85	244	1.9
ZZ55147		0.015	0.17	1.22	50	0.19	18.50	90	1.2
ZZ55148		0.012	0.13	0.43	56	0.12	4.30	72	1.2
ZZ55149		0.020	0.14	1.00	53	0.21	11.25	89	1.1
ZZ55150		0.007	0.17	0.99	37	0.15	13.20	373	2.7
ZZ55151		0.015	0.18	0.59	76	0.15	2.70	67	0.6
ZZ55152		0.008	0.11	0.33	64	0.09	2.69	112	2.1
ZZ55153		0.007	0.09	1.08	32	0.11	58.4	43	1.1
ZZ55154		0.010	0.10	0.43	61	0.08	7.24	56	0.8
ZZ55155		0.006	0.13	0.72	41	0.07	18.70	84	3.4
ZZ55156		0.006	0.12	0.74	38	0.07	13.70	96	2.7
ZZ55157		0.005	0.10	0.66	30	0.05	10.70	82	1.9
ZZ55158		0.005	0.14	0.66	34	<0.05	9.39	91	1.9
ZZ55159		0.005	0.13	0.94	39	<0.05	10.80	76	1.9
ZZ55160		0.011	0.12	0.97	41	0.12	13.15	76	1.2
ZZ55161		<0.005	0.12	0.57	24	<0.05	9.32	1110	2.1
ZZ55162		0.014	0.15	1.34	33	0.09	6.78	882	1.2
ZZ55163		0.009	0.11	1.42	24	0.05	8.81	319	1.7
ZZ55164		<0.005	0.11	0.75	24	<0.05	9.20	155	2.0
ZZ55165		0.013	0.16	0.44	49	0.12	2.72	66	2.8
ZZ55166		0.027	0.14	0.40	53	0.20	2.48	41	1.3
ZZ55167		0.016	0.16	0.61	48	0.25	5.38	52	0.5
ZZ55168		0.015	0.14	0.46	47	0.11	4.23	75	1.1
ZZ55169		0.005	0.48	0.43	20	<0.05	13.05	58	1.6
ZZ55170		0.015	0.15	0.69	33	0.09	10.45	77	1.4



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55171		0.14	0.002	0.18	1.29	10.3	<0.2	<10	140	0.78	0.23	1.61	0.29	14.10	11.4	19
ZZ55172		0.16	0.001	0.16	1.12	8.4	<0.2	<10	130	0.63	0.19	2.04	0.25	11.60	9.3	16
ZZ55173		0.12	0.007	0.17	0.90	6.2	<0.2	10	150	0.57	0.15	2.95	0.51	9.82	9.5	12
ZZ55174		0.16	0.003	0.15	0.90	5.5	<0.2	<10	140	0.67	0.14	2.58	0.20	13.40	8.1	12
ZZ55175		0.12	0.007	0.21	0.89	5.7	<0.2	<10	120	0.70	0.14	2.96	0.17	13.55	7.7	12
ZZ55176		0.26	0.003	0.15	1.25	11.4	<0.2	<10	130	0.82	0.25	1.17	0.27	21.7	11.8	22
ZZ55177		0.20	0.003	0.06	1.13	15.0	<0.2	<10	90	0.72	0.27	0.67	0.26	16.60	15.9	20
ZZ55178		0.20	0.003	0.13	1.39	17.5	<0.2	<10	100	0.92	0.31	0.59	0.19	27.8	14.2	23
ZZ55179		0.28	0.004	0.14	1.53	12.2	<0.2	<10	90	0.99	0.35	0.58	0.44	25.7	18.0	26
ZZ55180		0.16	0.005	0.14	1.04	18.5	<0.2	10	140	0.84	0.27	0.89	0.70	15.90	16.5	18
ZZ55181		0.22	0.003	0.11	0.94	22.2	<0.2	<10	130	0.80	0.27	1.29	1.30	16.40	20.6	17
ZZ55182		0.20	0.002	0.15	0.99	21.8	<0.2	<10	140	0.81	0.28	0.99	1.26	17.15	19.9	18
ZZ55183		0.24	0.002	0.13	1.15	14.3	<0.2	<10	120	0.81	0.27	0.85	0.64	16.75	12.6	20
ZZ55184		0.22	<0.001	0.09	1.30	12.9	<0.2	<10	170	0.60	0.28	0.69	0.32	16.55	10.3	19
ZZ55185		0.20	0.005	0.05	1.76	11.8	<0.2	<10	170	0.73	0.30	0.10	0.55	30.2	14.2	24
ZZ55186		0.24	0.003	0.13	1.39	11.5	<0.2	<10	140	0.94	0.31	0.64	0.36	20.9	10.6	21
ZZ55187		0.18	0.005	0.07	2.09	6.9	<0.2	<10	100	0.95	0.26	0.27	0.45	27.5	43.0	31
ZZ55188		0.22	0.003	0.07	1.06	6.0	<0.2	<10	150	1.02	0.26	0.76	0.11	25.5	11.1	27
ZZ55189		0.24	0.002	0.14	1.30	10.5	<0.2	<10	270	0.85	0.26	0.92	0.28	20.8	12.3	23
ZZ55190		0.24	0.002	0.11	1.93	14.5	<0.2	<10	240	0.95	0.30	0.15	0.53	30.6	12.8	28
ZZ55191		0.28	0.001	0.07	1.80	12.3	<0.2	<10	190	0.63	0.31	0.08	0.24	23.4	11.9	27
ZZ55192		0.30	0.001	0.05	1.23	11.0	<0.2	<10	200	0.59	0.29	0.20	0.23	20.1	9.7	21
ZZ55193		0.22	0.002	0.11	1.24	5.8	<0.2	<10	330	0.91	0.22	1.17	0.15	18.35	7.2	25
ZZ55194		0.18	0.002	0.20	1.09	7.8	<0.2	10	400	0.87	0.22	1.75	0.45	11.15	9.7	26
ZZ55195		0.24	0.003	0.20	1.20	11.8	<0.2	<10	320	0.83	0.26	1.08	0.32	17.30	10.3	20
ZZ55196		0.26	0.002	0.29	1.31	9.5	<0.2	<10	260	0.92	0.26	1.15	0.27	14.65	10.0	20
ZZ55197		0.22	0.001	0.06	1.38	6.5	<0.2	<10	120	1.06	0.29	0.13	0.40	9.61	13.3	28
ZZ55198		0.22	0.002	0.23	1.27	11.0	<0.2	<10	180	0.98	0.26	0.88	0.44	17.30	13.7	21
ZZ55199		0.22	0.002	0.32	1.16	9.5	<0.2	<10	320	0.91	0.24	1.02	0.31	13.90	8.4	19
ZZ55200		0.18	0.002	0.21	0.73	11.1	<0.2	<10	300	0.80	0.23	1.55	0.67	10.10	8.2	10
ZZ55201		0.18	0.005	0.15	0.91	9.6	<0.2	10	200	0.81	0.20	2.25	0.64	12.50	8.1	13
ZZ55202		0.18	0.007	0.23	0.82	6.0	<0.2	10	220	0.63	0.14	4.09	0.82	9.00	7.0	11
ZZ55203		0.14	0.001	0.70	0.83	18.9	<0.2	<10	110	0.83	0.18	3.15	8.04	20.8	8.3	11
ZZ55204		0.16	0.004	0.30	0.64	6.3	<0.2	<10	90	0.28	0.10	5.02	9.30	6.51	2.9	5
ZZ55205		0.24	0.002	0.26	0.97	21.1	<0.2	<10	130	0.47	0.20	2.33	16.90	11.45	8.9	14
ZZ55206		0.24	0.004	0.21	1.18	10.2	<0.2	<10	190	0.78	0.21	0.89	0.83	22.2	9.9	22
ZZ55207		0.24	0.003	0.18	0.94	11.5	<0.2	10	160	0.94	0.23	1.33	1.63	15.10	9.6	15
ZZ55208		0.22	0.003	0.17	1.05	11.5	<0.2	<10	120	0.91	0.29	1.13	0.54	19.45	16.3	17
ZZ55209		0.20	0.004	0.14	0.93	10.5	<0.2	10	110	0.74	0.25	1.81	0.32	14.80	14.1	15
ZZ55210		0.18	0.003	0.16	0.98	9.8	<0.2	10	120	0.74	0.22	1.78	0.38	11.75	11.2	16



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55171		2.18	49.0	2.91	3.81	<0.05	0.06	0.15	0.029	0.08	6.7	20.7	0.57	449	0.63	0.01
ZZ55172		3.92	34.9	2.48	3.26	<0.05	0.07	0.20	0.026	0.08	5.5	19.5	0.63	342	0.60	0.01
ZZ55173		2.61	41.2	1.93	2.65	<0.05	0.07	0.14	0.019	0.08	5.3	14.8	0.61	1040	0.49	0.01
ZZ55174		3.57	51.1	1.71	2.67	<0.05	0.05	0.12	0.016	0.04	8.1	11.5	0.50	478	0.61	0.01
ZZ55175		4.80	55.2	1.72	2.57	0.05	0.06	0.10	0.021	0.06	10.4	13.3	0.51	270	0.48	0.01
ZZ55176		1.54	44.4	2.74	4.18	0.05	0.04	0.10	0.034	0.06	10.5	19.7	0.50	545	0.86	0.01
ZZ55177		0.92	43.4	3.62	3.96	<0.05	0.05	0.07	0.031	0.05	6.4	21.2	0.51	617	0.76	0.01
ZZ55178		1.03	38.6	4.49	5.03	<0.05	0.04	0.09	0.039	0.06	10.6	30.8	0.48	588	0.93	0.01
ZZ55179		1.77	77.0	3.75	4.98	0.06	0.11	0.22	0.045	0.09	10.6	37.4	0.74	212	0.57	0.01
ZZ55180		1.28	48.5	3.59	3.51	<0.05	0.07	0.17	0.039	0.10	6.6	18.1	0.54	580	0.66	0.01
ZZ55181		1.39	60.0	3.63	3.31	0.05	0.06	0.16	0.034	0.09	6.5	16.7	0.70	598	0.75	0.01
ZZ55182		1.32	58.2	3.71	3.31	<0.05	0.07	0.20	0.032	0.09	6.9	17.0	0.66	799	0.77	0.01
ZZ55183		1.24	51.1	3.58	3.75	0.06	0.08	0.21	0.036	0.09	7.1	21.8	0.61	128	0.66	0.01
ZZ55184		1.11	30.8	3.57	5.80	<0.05	0.04	0.05	0.029	0.05	7.5	29.6	0.38	251	0.87	<0.01
ZZ55185		1.41	16.5	3.51	6.52	0.05	0.04	0.05	0.039	0.05	12.0	20.8	0.26	1270	1.46	0.01
ZZ55186		1.53	56.1	2.95	4.28	0.05	0.08	0.17	0.038	0.08	9.0	23.1	0.56	120	0.69	0.01
ZZ55187		8.57	53.9	5.13	9.84	<0.05	0.02	0.20	0.078	0.06	9.2	33.1	0.52	2620	1.26	0.01
ZZ55188		0.70	27.2	2.79	3.96	<0.05	0.13	0.03	0.029	0.08	10.6	24.6	0.59	271	0.48	0.01
ZZ55189		1.46	23.6	2.87	4.03	<0.05	0.07	0.12	0.032	0.09	9.0	19.4	0.50	575	1.29	0.01
ZZ55190		1.57	28.8	3.85	5.67	<0.05	0.05	0.04	0.041	0.07	9.7	25.0	0.41	356	1.37	0.01
ZZ55191		1.81	20.7	3.48	6.52	<0.05	0.04	0.02	0.033	0.07	8.5	31.9	0.40	385	1.21	0.01
ZZ55192		1.16	26.1	3.08	5.12	<0.05	0.02	0.02	0.028	0.07	7.9	23.0	0.35	303	1.16	<0.01
ZZ55193		0.74	21.4	2.22	3.72	0.05	0.09	0.05	0.026	0.06	7.8	26.3	0.57	246	0.57	0.01
ZZ55194		2.93	33.7	2.38	3.14	<0.05	0.07	0.10	0.025	0.09	5.4	21.2	0.49	469	0.77	0.01
ZZ55195		1.03	26.7	2.91	3.78	<0.05	0.06	0.09	0.033	0.07	7.0	19.9	0.35	420	1.11	0.01
ZZ55196		1.89	37.4	2.74	3.68	<0.05	0.08	0.15	0.028	0.09	6.7	20.7	0.36	386	0.90	0.01
ZZ55197		1.82	29.1	3.08	4.61	<0.05	0.08	0.03	0.028	0.10	3.6	37.5	0.64	676	0.55	0.01
ZZ55198		2.10	33.7	2.88	3.71	0.05	0.08	0.08	0.031	0.09	6.6	24.1	0.42	913	0.94	0.01
ZZ55199		1.97	28.3	2.74	3.15	<0.05	0.08	0.12	0.030	0.08	7.1	16.5	0.34	304	0.90	0.01
ZZ55200		0.91	27.6	2.61	1.97	<0.05	0.07	0.17	0.028	0.07	4.6	7.4	0.18	285	0.73	0.01
ZZ55201		0.83	32.3	2.31	2.50	<0.05	0.05	0.14	0.023	0.06	6.1	10.0	0.23	363	0.65	0.01
ZZ55202		0.65	42.5	1.67	2.07	<0.05	0.04	0.22	0.017	0.04	4.5	6.2	0.19	620	0.66	0.01
ZZ55203		0.74	28.4	2.05	2.29	0.05	0.04	0.21	0.025	0.05	9.1	6.4	0.17	474	0.68	0.01
ZZ55204		0.39	8.5	0.70	1.69	<0.05	0.06	0.21	0.015	0.03	3.2	1.3	0.05	146	0.51	0.02
ZZ55205		0.91	23.6	2.57	3.25	<0.05	0.04	0.56	0.028	0.05	4.0	11.3	0.19	713	0.79	0.01
ZZ55206		0.93	36.4	2.61	3.55	0.06	0.06	0.12	0.030	0.07	10.8	12.5	0.39	273	1.15	0.01
ZZ55207		0.91	36.6	2.61	2.65	<0.05	0.06	0.14	0.032	0.07	6.6	10.7	0.27	369	0.85	0.01
ZZ55208		0.91	48.4	3.21	3.15	0.05	0.08	0.13	0.037	0.08	8.4	16.4	0.38	735	1.16	0.01
ZZ55209		0.84	52.2	2.90	2.94	0.06	0.06	0.14	0.032	0.08	7.0	12.5	0.34	489	1.01	0.01
ZZ55210		1.01	48.6	2.78	2.96	<0.05	0.06	0.16	0.030	0.07	5.7	13.9	0.44	326	1.12	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ55171		0.39	24.5	980	12.4	9.4	<0.001	0.11	0.47	4.2	1.2	0.3	63.8	<0.01	0.06	1.0
ZZ55172		0.36	20.4	930	11.4	9.3	<0.001	0.15	0.39	3.0	2.6	0.3	69.2	<0.01	0.04	0.8
ZZ55173		0.25	18.6	870	8.5	8.0	<0.001	0.16	0.46	2.4	3.9	0.2	95.9	<0.01	0.04	0.6
ZZ55174		0.44	16.4	1010	8.4	6.3	0.001	0.14	0.50	2.3	3.3	0.2	92.7	<0.01	0.04	0.5
ZZ55175		0.31	17.3	930	7.9	7.5	<0.001	0.17	0.38	3.8	1.5	0.2	108.0	<0.01	<0.01	0.7
ZZ55176		0.67	22.9	820	18.2	9.1	<0.001	0.08	0.47	5.0	1.5	0.4	51.3	<0.01	0.04	1.2
ZZ55177		0.33	25.9	710	20.6	6.1	0.001	0.07	0.44	5.1	0.5	0.3	31.2	<0.01	0.06	1.6
ZZ55178		0.65	25.1	420	23.6	8.7	<0.001	0.04	0.48	7.1	1.4	0.4	34.9	0.01	0.08	3.0
ZZ55179		0.23	39.4	590	23.7	9.5	0.003	0.07	0.32	11.1	2.2	0.3	31.2	<0.01	0.07	3.9
ZZ55180		0.26	28.7	570	38.6	8.5	0.008	0.10	0.41	6.8	2.3	0.3	41.0	<0.01	0.04	2.4
ZZ55181		0.23	34.9	540	51.9	7.2	0.004	0.08	0.56	7.0	1.5	0.3	42.9	<0.01	0.06	2.7
ZZ55182		0.25	33.5	620	49.6	7.7	0.002	0.08	0.54	7.2	1.7	0.3	39.0	<0.01	0.07	2.7
ZZ55183		0.26	27.6	630	27.3	8.8	0.007	0.12	0.32	6.9	3.4	0.3	40.0	<0.01	0.08	2.4
ZZ55184		0.43	18.8	370	15.6	10.7	<0.001	0.04	0.35	3.3	0.7	0.4	38.7	<0.01	0.05	1.9
ZZ55185		1.38	23.5	460	20.4	9.4	<0.001	0.03	0.55	3.5	0.2	0.6	13.7	0.01	0.04	3.6
ZZ55186		0.29	25.6	690	28.2	9.2	0.001	0.07	0.35	7.9	1.6	0.4	34.6	<0.01	0.07	2.3
ZZ55187		0.70	20.9	970	17.9	13.0	<0.001	0.10	0.43	6.6	1.1	0.7	13.4	<0.01	0.14	1.2
ZZ55188		0.34	32.4	710	15.4	8.8	<0.001	0.06	0.20	4.9	0.8	0.4	41.4	<0.01	0.01	3.3
ZZ55189		0.54	22.9	1040	19.5	15.3	<0.001	0.09	0.43	3.5	2.0	0.4	60.5	<0.01	0.04	1.4
ZZ55190		0.73	31.5	570	24.0	12.1	0.001	0.03	0.56	3.9	0.5	0.5	14.6	<0.01	0.06	2.6
ZZ55191		0.79	23.0	550	22.7	13.0	<0.001	0.03	0.37	3.5	0.4	0.7	10.0	<0.01	0.04	2.6
ZZ55192		0.55	24.0	470	21.4	12.9	<0.001	0.02	0.38	3.4	0.5	0.5	15.8	<0.01	0.05	2.3
ZZ55193		0.37	24.0	840	11.6	9.5	<0.001	0.08	0.37	3.5	0.8	0.4	56.3	<0.01	0.02	1.5
ZZ55194		0.36	22.2	760	18.7	17.1	<0.001	0.10	0.59	4.3	2.0	0.4	102.0	<0.01	0.04	1.0
ZZ55195		0.44	23.4	730	20.9	9.0	<0.001	0.06	0.67	3.8	1.2	0.4	48.7	<0.01	0.04	1.3
ZZ55196		0.38	23.4	980	18.5	12.5	<0.001	0.10	0.57	3.9	1.1	0.5	58.4	<0.01	0.07	1.2
ZZ55197		0.34	34.2	630	23.3	11.0	<0.001	0.04	0.37	4.0	<0.2	0.5	18.3	<0.01	0.02	1.7
ZZ55198		0.43	31.6	560	18.9	10.1	<0.001	0.05	0.64	5.0	0.8	0.4	45.9	<0.01	0.04	1.8
ZZ55199		0.33	22.7	830	18.1	12.0	<0.001	0.08	0.53	4.1	1.7	0.4	43.5	<0.01	0.04	1.1
ZZ55200		0.17	20.3	730	19.9	7.6	<0.001	0.11	0.46	3.2	1.8	0.3	51.9	<0.01	0.04	0.9
ZZ55201		0.34	19.6	850	18.5	6.9	0.001	0.13	0.51	2.5	1.4	0.3	63.1	<0.01	0.04	0.6
ZZ55202		0.23	16.9	1570	17.0	4.1	<0.001	0.24	0.62	0.9	2.4	0.2	114.5	<0.01	0.04	0.2
ZZ55203		0.32	22.8	1050	129.0	5.1	<0.001	0.13	0.88	2.3	1.4	0.3	82.6	<0.01	0.06	0.5
ZZ55204		0.43	6.3	790	44.3	2.3	<0.001	0.26	0.43	0.8	0.5	0.2	114.5	0.01	0.01	0.2
ZZ55205		0.39	16.3	780	230	8.1	<0.001	0.17	0.89	2.6	0.4	0.4	58.2	<0.01	0.06	0.8
ZZ55206		0.60	26.9	740	17.9	7.0	0.001	0.04	0.83	4.8	0.8	0.4	35.5	<0.01	0.05	1.7
ZZ55207		0.29	24.2	630	47.2	6.8	0.002	0.08	0.63	4.2	1.3	0.4	39.2	<0.01	0.04	1.1
ZZ55208		0.31	29.4	720	18.2	6.8	<0.001	0.06	0.60	6.4	1.2	0.4	41.5	<0.01	0.09	1.5
ZZ55209		0.33	27.2	790	14.6	6.6	<0.001	0.11	0.67	4.7	1.5	0.4	63.5	<0.01	0.10	0.8
ZZ55210		0.31	24.9	690	12.1	7.8	0.001	0.11	0.61	4.2	1.5	0.3	50.3	<0.01	0.07	0.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55171		0.008	0.10	0.78	28	0.11	9.39	81	2.0
ZZ55172		0.007	0.11	1.13	22	<0.05	7.78	64	2.0
ZZ55173		0.005	0.10	1.37	19	<0.05	8.96	49	1.8
ZZ55174		0.011	0.07	1.09	18	0.06	13.40	35	1.4
ZZ55175		0.007	0.09	0.87	15	<0.05	19.90	40	1.9
ZZ55176		0.018	0.12	1.37	33	0.11	13.15	72	1.1
ZZ55177		0.010	0.10	0.74	30	0.05	5.56	73	1.4
ZZ55178		0.012	0.12	0.68	41	0.10	11.50	70	1.5
ZZ55179		0.005	0.10	0.56	35	<0.05	13.10	117	3.6
ZZ55180		0.005	0.11	0.44	30	<0.05	9.41	221	2.2
ZZ55181		0.005	0.12	0.47	31	<0.05	9.42	279	2.0
ZZ55182		0.006	0.12	0.51	31	0.05	9.61	260	2.1
ZZ55183		0.005	0.10	0.66	31	0.06	9.33	192	2.4
ZZ55184		0.007	0.11	1.00	40	0.08	3.94	55	1.2
ZZ55185		0.028	0.17	0.52	53	0.21	5.47	63	1.2
ZZ55186		0.005	0.12	1.09	36	<0.05	11.00	167	2.1
ZZ55187		0.021	0.17	0.24	106	0.09	4.94	65	<0.5
ZZ55188		0.006	0.12	1.68	22	<0.05	11.05	91	3.5
ZZ55189		0.011	0.13	9.22	34	0.12	9.94	132	1.9
ZZ55190		0.011	0.22	1.11	50	0.16	5.82	155	1.6
ZZ55191		0.011	0.24	0.85	50	0.15	3.85	144	1.1
ZZ55192		0.010	0.17	1.56	40	0.13	5.24	133	0.7
ZZ55193		0.010	0.10	6.41	25	0.10	8.44	82	2.1
ZZ55194		0.009	0.13	9.75	26	0.06	8.02	113	2.0
ZZ55195		0.011	0.12	2.41	35	0.11	8.03	107	1.5
ZZ55196		0.007	0.18	2.48	32	0.10	11.40	113	2.1
ZZ55197		0.010	0.09	0.70	25	0.07	5.30	133	1.6
ZZ55198		0.012	0.16	1.00	30	0.12	8.57	149	2.0
ZZ55199		0.008	0.15	1.65	30	0.08	11.80	154	1.9
ZZ55200		<0.005	0.15	1.69	17	0.06	8.57	154	1.6
ZZ55201		0.008	0.11	4.30	22	0.08	8.05	194	1.4
ZZ55202		0.005	0.11	3.69	18	0.05	6.89	130	1.1
ZZ55203		0.007	0.21	2.16	19	0.08	10.10	3960	1.2
ZZ55204		0.015	0.10	0.87	10	<0.05	2.92	1900	2.1
ZZ55205		0.008	0.26	0.98	28	0.06	3.34	6070	1.4
ZZ55206		0.023	0.12	1.44	41	0.21	10.65	429	1.5
ZZ55207		0.007	0.15	1.40	26	0.06	9.24	863	1.5
ZZ55208		0.009	0.13	1.37	29	0.12	13.60	161	1.7
ZZ55209		0.008	0.08	1.36	26	0.08	11.60	101	1.8
ZZ55210		0.008	0.14	0.98	28	0.06	8.04	110	1.7



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55211		0.18	0.005	0.17	1.17	10.3	<0.2	<10	150	0.71	0.21	0.99	0.40	19.25	11.2	21
ZZ55212		0.26	0.003	0.19	1.31	11.1	<0.2	<10	190	0.76	0.22	0.80	0.38	22.9	11.4	23
ZZ55213		0.22	0.003	0.20	1.49	11.3	<0.2	<10	220	0.88	0.24	1.06	0.35	20.5	13.3	24
ZZ55214		0.22	0.003	0.16	1.13	9.9	<0.2	<10	180	0.57	0.19	1.03	0.53	19.60	10.1	21
ZZ55215		0.22	0.003	0.19	1.34	11.1	<0.2	<10	200	0.78	0.23	0.99	0.50	20.5	12.7	23
ZZ55216		0.20	0.004	0.14	1.36	12.6	<0.2	<10	170	0.78	0.23	1.02	0.47	19.20	14.1	23
ZZ55217		0.24	0.004	0.06	1.39	34.4	<0.2	<10	150	0.92	0.31	0.12	0.34	19.35	23.3	24
ZZ55218		0.20	0.003	0.04	1.28	28.2	<0.2	<10	330	0.54	0.35	0.34	0.20	16.55	14.7	20
ZZ55219		0.22	0.003	0.06	1.01	8.3	<0.2	<10	70	0.78	0.41	1.65	0.11	5.99	15.9	15
ZZ55220		0.18	0.007	0.14	1.32	21.5	<0.2	10	300	0.90	0.25	1.73	0.60	11.05	14.1	20
ZZ55221		0.30	0.011	0.12	1.65	20.5	<0.2	<10	150	0.90	0.32	0.94	0.24	13.45	17.3	27
ZZ55222		0.32	0.003	0.07	1.72	14.6	<0.2	<10	100	0.92	0.27	0.16	0.19	32.4	24.9	26
ZZ55223		0.26	0.003	0.07	1.72	12.9	<0.2	<10	130	0.63	0.29	0.11	0.18	26.9	10.3	24
ZZ55224		0.26	0.006	0.08	0.80	163.0	<0.2	<10	250	1.25	0.24	0.99	0.89	16.80	15.5	14
ZZ55225		0.24	0.004	0.05	1.68	18.3	<0.2	<10	100	0.63	0.35	0.07	0.25	24.3	17.8	28
ZZ55226		0.24	0.004	0.07	1.70	10.8	<0.2	<10	180	0.65	0.27	0.48	0.15	24.0	11.2	29
ZZ55227		0.28	0.003	0.12	1.44	14.7	<0.2	<10	150	0.77	0.26	0.53	0.25	22.1	13.5	25
ZZ55228		0.26	0.003	0.11	1.44	15.3	<0.2	<10	150	0.73	0.28	0.62	0.27	21.4	17.7	24
ZZ55229		0.24	0.006	0.11	1.46	13.5	<0.2	<10	120	0.66	0.25	0.94	0.24	24.6	17.6	23
ZZ55230		0.22	0.015	0.80	0.59	21.5	<0.2	<10	760	0.61	0.17	1.71	1.55	11.20	9.1	18
ZZ55231		0.20	0.006	0.78	0.60	16.4	<0.2	10	790	0.54	0.17	1.56	1.41	8.81	6.5	16
ZZ55232		0.24	0.006	0.29	1.95	13.2	<0.2	<10	270	1.05	0.25	1.01	0.28	20.9	13.9	24
ZZ55233		0.26	0.003	0.09	1.76	18.5	<0.2	<10	150	0.57	0.34	0.22	0.35	17.80	23.6	27
ZZ55234		0.24	0.003	0.05	0.92	11.0	<0.2	<10	80	0.27	0.35	0.11	0.11	22.5	5.5	15
ZZ55235		0.30	0.003	0.05	1.91	15.7	<0.2	<10	130	0.65	0.29	0.03	0.17	33.7	13.3	29
ZZ55236		0.18	0.004	0.55	1.06	23.5	<0.2	<10	560	0.60	0.22	4.03	2.69	19.85	17.9	26
ZZ55237		0.26	0.011	1.97	0.35	20.8	<0.2	<10	860	0.33	0.18	0.41	1.05	11.25	5.5	28
ZZ55238		0.32	0.007	2.48	0.71	25.6	<0.2	10	1650	0.71	0.15	1.08	3.05	11.00	11.9	44
ZZ55239		0.20	0.004	1.25	0.31	14.5	<0.2	10	2220	0.37	0.10	3.42	1.29	5.56	3.2	24
ZZ55240		0.28	0.006	2.06	0.38	23.3	<0.2	<10	1060	0.42	0.18	1.15	0.69	9.51	4.5	30
ZZ55241		0.26	0.008	1.14	0.75	250	<0.2	<10	1570	0.32	0.20	10.50	6.63	15.95	21.3	28
ZZ55242		0.22	0.004	0.61	2.12	118	<0.2	10	1610	1.26	0.27	10.30	7.86	30.0	24.2	61
ZZ55243		0.32	0.003	0.62	0.26	33	<0.2	<10	420	0.16	0.14	12.55	2.69	8.53	6.4	15
ZZ55244		0.26	0.005	0.25	1.04	32	<0.2	10	830	0.69	0.34	11.25	4.18	27.9	11.8	42
ZZ55245		0.34	0.002	0.33	0.52	42	<0.2	<10	230	0.32	0.24	19.75	4.27	15.45	10.1	18
ZZ55246		0.30	0.001	0.16	0.84	26.2	<0.2	10	630	0.63	0.27	7.50	4.72	26.1	6.9	28
ZZ55247		0.24	0.002	0.25	0.58	10.7	<0.2	<10	430	0.50	0.17	4.01	3.13	12.90	5.7	14
ZZ55248		0.24	0.004	0.36	0.43	10.2	<0.2	10	860	0.52	0.17	3.18	1.91	9.42	7.5	11
ZZ55249		0.24	0.010	0.11	0.27	2.7	<0.2	<10	280	0.14	0.05	3.68	0.63	3.50	1.9	5
ZZ55250		0.28	0.005	0.29	1.54	19.4	<0.2	<10	910	0.72	0.25	2.23	1.93	22.0	10.2	29





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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ55211		0.86	35.4	2.67	3.62	<0.05	0.07	0.10	0.027	0.07	9.0	18.9	0.49	262	0.85	0.01
ZZ55212		1.08	43.0	2.73	4.21	0.05	0.06	0.08	0.029	0.07	10.7	19.1	0.50	253	0.96	0.01
ZZ55213		1.30	56.3	2.96	4.43	0.06	0.07	0.12	0.032	0.08	9.7	19.2	0.58	526	0.88	0.01
ZZ55214		0.97	29.8	2.41	3.66	0.06	0.07	0.09	0.027	0.07	9.2	16.2	0.44	415	0.86	0.01
ZZ55215		1.14	40.6	3.01	4.18	0.05	0.08	0.11	0.031	0.08	9.6	22.9	0.58	371	0.89	0.01
ZZ55216		1.12	38.9	3.19	4.30	0.05	0.07	0.11	0.030	0.08	8.7	24.5	0.61	518	0.72	0.01
ZZ55217		1.46	67.3	5.15	4.90	0.06	0.04	0.13	0.047	0.07	6.5	17.9	0.38	810	2.36	0.01
ZZ55218		0.92	55.3	4.72	6.37	0.05	0.02	0.08	0.043	0.07	6.4	10.3	0.29	547	1.32	0.01
ZZ55219		1.11	61.7	3.32	3.48	<0.05	0.06	0.10	0.034	0.06	3.5	15.5	0.32	788	1.49	0.01
ZZ55220		1.13	48.6	3.64	3.45	0.06	0.06	0.31	0.031	0.06	5.3	21.8	0.58	1260	1.23	0.01
ZZ55221		1.50	59.4	5.12	5.74	<0.05	0.05	0.12	0.052	0.07	5.2	27.3	0.58	599	0.92	0.01
ZZ55222		1.04	83.5	4.49	5.04	0.07	0.05	0.10	0.038	0.06	13.9	30.7	0.76	875	0.52	0.01
ZZ55223		1.81	56.4	3.85	7.46	0.05	0.02	0.05	0.038	0.07	12.6	19.5	0.38	212	0.95	0.01
ZZ55224		0.69	50.4	7.75	2.15	0.06	0.04	0.21	0.043	0.06	6.3	6.6	0.26	2480	1.34	0.01
ZZ55225		1.80	41.0	4.59	7.06	<0.05	0.02	0.04	0.046	0.06	9.2	20.4	0.52	601	1.06	0.01
ZZ55226		1.46	22.1	3.06	5.42	<0.05	0.05	0.08	0.030	0.05	10.1	23.3	0.56	558	0.96	0.01
ZZ55227		1.83	51.4	3.87	4.42	0.06	0.06	0.11	0.033	0.07	9.5	24.1	0.66	355	0.84	0.01
ZZ55228		1.24	68.6	4.19	4.27	0.05	0.07	0.10	0.030	0.06	8.4	23.7	0.72	596	0.92	0.01
ZZ55229		1.09	74.3	3.95	4.88	0.09	0.07	0.11	0.033	0.08	10.3	32.8	0.79	551	0.64	0.01
ZZ55230		1.32	48.6	2.53	2.05	0.07	0.06	0.17	0.033	0.10	6.2	8.4	0.73	275	2.82	0.01
ZZ55231		0.84	44.7	2.05	2.04	0.07	0.09	0.19	0.027	0.07	4.8	6.1	0.29	435	0.92	0.01
ZZ55232		3.01	72.2	3.81	5.55	0.10	0.14	0.18	0.040	0.13	11.4	31.0	0.68	560	0.60	0.01
ZZ55233		2.87	37.2	4.58	7.38	0.07	0.04	0.06	0.040	0.11	7.5	33.1	0.46	1100	0.97	0.01
ZZ55234		2.17	15.6	2.77	8.66	0.06	0.02	0.02	0.020	0.06	10.7	4.5	0.08	174	1.62	0.01
ZZ55235		1.68	44.8	3.91	6.26	0.09	0.08	0.03	0.036	0.09	15.4	36.2	0.48	267	1.55	0.01
ZZ55236		0.68	38.8	3.31	3.26	0.09	0.07	0.32	0.035	0.10	18.3	10.0	0.26	530	3.27	0.01
ZZ55237		1.13	67.7	2.42	1.10	0.10	0.07	0.16	0.038	0.11	6.6	2.4	0.04	125	5.33	0.01
ZZ55238		1.14	72.2	2.77	1.60	0.11	0.08	0.15	0.033	0.13	7.3	2.2	0.03	237	6.29	<0.01
ZZ55239		0.29	32.7	1.33	0.90	0.06	0.07	0.21	0.022	0.06	4.7	1.1	0.17	155	3.25	<0.01
ZZ55240		0.62	56.4	2.13	1.49	0.09	0.09	0.22	0.037	0.12	7.7	2.1	0.04	138	6.52	0.01
ZZ55241		0.74	37.6	4.50	2.43	0.15	0.11	0.71	0.039	0.11	29.2	4.7	0.11	402	20.0	0.01
ZZ55242		1.18	132.0	4.41	4.00	0.19	0.28	0.33	0.088	0.14	70.6	9.4	0.13	490	9.39	<0.01
ZZ55243		0.60	23.7	1.48	1.09	0.07	0.05	0.28	0.025	0.05	16.2	1.5	0.05	169	8.75	<0.01
ZZ55244		1.22	36.9	2.31	3.62	0.15	0.21	0.22	0.065	0.15	56.3	8.4	0.15	735	2.59	0.01
ZZ55245		0.78	19.5	2.31	1.78	0.10	0.11	0.12	0.037	0.09	25.3	4.4	0.13	499	4.74	0.01
ZZ55246		1.70	29.7	1.94	2.88	0.14	0.13	0.11	0.048	0.11	49.8	6.5	0.14	454	1.21	0.01
ZZ55247		0.63	20.3	1.24	1.94	0.08	0.08	0.15	0.025	0.07	20.3	3.9	0.08	363	1.02	0.01
ZZ55248		0.46	21.0	1.46	1.32	0.06	0.10	0.10	0.025	0.09	9.9	3.1	0.07	203	1.04	0.01
ZZ55249		0.30	8.4	0.40	0.77	<0.05	0.04	0.10	0.008	0.06	3.9	1.0	0.05	180	0.73	0.01
ZZ55250		1.65	23.5	2.56	4.81	0.07	0.07	0.11	0.038	0.07	16.3	11.7	0.25	645	1.47	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ55211		0.55	24.6	710	13.0	6.9	<0.001	0.09	0.62	5.0	2.0	0.4	38.6	<0.01	0.04	1.7
ZZ55212		0.61	27.4	760	12.7	7.5	<0.001	0.06	0.83	5.4	1.3	0.4	32.8	<0.01	0.07	1.8
ZZ55213		0.58	29.0	710	13.4	8.5	<0.001	0.06	0.78	6.3	1.4	0.4	39.8	<0.01	0.06	1.6
ZZ55214		0.63	22.7	760	11.7	7.7	0.001	0.07	0.65	4.5	1.3	0.4	40.4	<0.01	0.05	1.7
ZZ55215		0.57	27.6	670	13.6	8.6	0.002	0.09	0.68	5.9	2.1	0.4	38.4	<0.01	0.07	1.9
ZZ55216		0.41	26.5	620	13.3	8.1	0.001	0.07	0.49	5.9	2.3	0.4	36.7	<0.01	0.10	1.5
ZZ55217		0.28	31.5	480	19.2	7.4	<0.001	0.03	0.71	9.1	1.0	0.5	8.8	<0.01	0.13	2.2
ZZ55218		0.26	23.8	430	14.8	8.9	<0.001	0.02	0.49	6.1	0.7	0.5	16.4	<0.01	0.16	1.4
ZZ55219		0.26	29.3	620	19.0	6.8	<0.001	0.07	0.90	5.0	0.8	0.4	60.2	<0.01	0.17	0.8
ZZ55220		0.24	30.3	980	13.2	9.2	0.007	0.18	0.54	5.2	5.6	0.3	63.4	<0.01	0.08	0.8
ZZ55221		0.40	29.6	670	20.0	7.7	<0.001	0.07	0.73	5.9	0.9	0.5	35.2	<0.01	0.15	1.3
ZZ55222		0.11	34.3	510	16.9	4.6	<0.001	0.02	0.52	7.9	0.8	0.3	11.5	<0.01	0.12	3.6
ZZ55223		0.38	21.1	430	11.7	10.4	<0.001	0.02	0.52	5.3	0.3	0.6	9.2	<0.01	0.11	2.1
ZZ55224		0.18	32.9	840	12.6	6.0	0.001	0.09	0.76	9.9	2.0	0.3	32.5	<0.01	0.13	1.2
ZZ55225		0.55	26.2	570	18.4	11.2	<0.001	0.02	0.51	5.4	0.7	0.6	6.7	<0.01	0.15	2.1
ZZ55226		0.68	20.4	780	12.2	9.0	<0.001	0.05	0.55	4.1	0.9	0.5	19.9	<0.01	0.06	1.6
ZZ55227		0.40	31.3	450	13.9	8.3	<0.001	0.04	0.72	6.8	1.9	0.4	24.1	<0.01	0.09	2.0
ZZ55228		0.24	31.0	370	17.0	6.0	<0.001	0.05	0.71	6.5	1.2	0.3	25.2	<0.01	0.09	2.1
ZZ55229		0.20	34.1	430	16.3	6.0	<0.001	0.06	0.61	5.9	1.3	0.3	35.0	<0.01	0.09	1.9
ZZ55230		0.16	62.4	1190	20.4	8.7	0.004	0.10	1.08	4.8	4.0	0.4	66.7	0.01	0.08	2.1
ZZ55231		0.19	48.2	1140	17.2	7.6	0.014	0.15	0.98	3.5	6.5	0.3	120.0	<0.01	0.06	1.1
ZZ55232		0.30	29.4	1280	14.8	14.2	0.001	0.19	0.48	7.2	1.9	0.4	92.7	0.01	0.07	1.7
ZZ55233		0.41	25.8	570	22.7	14.8	<0.001	0.05	0.63	5.4	0.5	0.6	20.2	<0.01	0.09	2.3
ZZ55234		1.23	8.9	230	13.2	10.8	<0.001	0.02	0.72	2.2	0.3	0.9	9.5	<0.01	0.06	2.9
ZZ55235		0.46	33.4	220	17.0	13.0	<0.001	0.01	0.85	4.8	0.7	0.6	13.0	<0.01	0.07	5.3
ZZ55236		0.47	93.0	870	13.6	7.7	0.001	0.08	1.60	3.1	2.0	0.5	37.9	0.01	0.12	0.9
ZZ55237		0.06	73.0	1340	10.2	7.9	0.009	0.22	1.68	5.7	6.1	0.4	64.1	0.01	0.11	3.9
ZZ55238		0.08	155.0	4170	8.1	9.5	0.006	0.20	1.84	4.3	10.2	0.4	148.5	0.01	0.30	1.2
ZZ55239		0.10	56.9	2140	5.8	4.2	0.002	0.20	1.32	1.5	6.1	0.3	101.5	<0.01	0.13	0.6
ZZ55240		0.09	59.9	1440	10.5	7.7	0.005	0.22	1.78	4.1	6.9	0.4	71.5	0.01	0.13	1.5
ZZ55241		0.26	98.0	3010	13.5	7.0	0.005	0.21	2.75	2.5	10.9	0.5	110.5	0.02	0.23	1.1
ZZ55242		0.39	262	4890	21.3	9.8	0.012	0.12	8.67	6.5	5.3	0.8	180.5	0.04	0.35	2.5
ZZ55243		0.14	46.8	1360	9.8	3.5	0.002	0.03	1.81	1.4	3.0	0.3	59.6	0.01	0.20	1.3
ZZ55244		0.39	92.2	4170	22.1	12.5	0.001	0.11	2.47	4.6	2.8	0.8	107.0	0.02	0.42	1.8
ZZ55245		0.30	43.5	2250	17.7	6.6	0.001	0.05	1.53	2.4	1.9	0.4	81.6	0.01	0.35	1.4
ZZ55246		0.35	90.1	3480	22.1	9.5	0.001	0.09	2.19	3.7	2.3	0.6	87.0	0.02	0.36	0.9
ZZ55247		0.34	33.2	1330	11.1	5.8	0.001	0.20	0.90	1.7	2.2	0.3	38.7	0.01	0.15	0.3
ZZ55248		0.18	35.6	1340	11.4	5.9	0.002	0.21	0.90	1.9	2.1	0.4	30.5	0.01	0.14	0.9
ZZ55249		0.16	9.5	1710	3.2	3.1	<0.001	0.29	0.27	0.6	1.9	<0.2	33.4	<0.01	0.03	<0.2
ZZ55250		0.66	49.4	1810	16.5	9.4	<0.001	0.14	1.05	2.8	1.7	0.6	29.2	0.01	0.14	0.8

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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55211		0.019	0.09	0.57	35	0.17	8.58	112	1.7
ZZ55212		0.019	0.09	1.08	41	0.18	9.26	109	1.7
ZZ55213		0.017	0.11	1.27	43	0.12	10.45	110	1.7
ZZ55214		0.022	0.09	0.80	36	0.11	7.77	129	1.6
ZZ55215		0.019	0.11	0.63	39	0.14	9.05	160	2.0
ZZ55216		0.013	0.10	0.62	39	0.08	8.41	155	1.7
ZZ55217		0.006	0.14	0.48	53	0.06	6.50	80	1.2
ZZ55218		0.006	0.09	0.32	68	0.05	4.70	72	0.7
ZZ55219		0.008	0.06	0.49	23	<0.05	7.32	63	1.4
ZZ55220		0.006	0.17	0.85	28	<0.05	8.68	106	1.6
ZZ55221		0.008	0.14	0.69	47	0.07	4.80	69	1.4
ZZ55222		0.005	0.07	0.45	43	<0.05	8.66	64	1.8
ZZ55223		0.008	0.11	0.43	63	0.08	4.66	46	0.7
ZZ55224		0.008	0.38	0.62	34	0.06	14.95	93	1.5
ZZ55225		0.014	0.12	0.42	65	0.13	3.59	64	0.6
ZZ55226		0.020	0.12	0.77	49	0.18	5.78	59	1.2
ZZ55227		0.014	0.10	0.44	39	0.12	8.92	74	1.6
ZZ55228		0.009	0.11	0.51	39	0.12	5.95	78	1.7
ZZ55229		0.006	0.07	0.54	36	0.06	8.16	77	1.9
ZZ55230		<0.005	0.19	2.48	39	0.08	21.3	317	1.5
ZZ55231		<0.005	0.16	2.59	38	0.06	16.15	142	2.5
ZZ55232		0.005	0.13	1.75	42	0.07	17.90	68	3.5
ZZ55233		0.007	0.13	0.33	61	0.08	3.11	97	1.1
ZZ55234		0.032	0.12	0.38	74	0.19	1.99	32	1.0
ZZ55235		0.009	0.14	0.76	50	0.09	6.26	105	3.7
ZZ55236		0.013	0.23	0.80	52	0.20	31.5	327	1.1
ZZ55237		<0.005	0.23	5.16	43	0.07	25.6	251	3.1
ZZ55238		<0.005	0.28	6.43	68	0.09	52.3	542	2.0
ZZ55239		<0.005	0.13	2.46	43	0.06	17.00	166	2.7
ZZ55240		<0.005	0.28	4.49	43	0.08	28.2	185	2.4
ZZ55241		0.005	0.86	4.07	59	0.14	57.9	604	1.9
ZZ55242		0.005	0.65	9.72	86	0.28	176.0	1480	4.9
ZZ55243		<0.005	0.27	2.94	20	0.07	27.4	259	1.2
ZZ55244		0.006	0.30	4.45	53	0.18	100.5	509	4.1
ZZ55245		0.005	0.20	2.59	30	0.13	51.8	370	2.0
ZZ55246		0.007	0.18	4.39	41	0.19	92.0	429	1.7
ZZ55247		0.006	0.11	1.96	22	0.11	46.7	188	1.5
ZZ55248		<0.005	0.12	1.56	18	0.09	24.1	167	2.6
ZZ55249		0.005	0.06	0.81	9	0.05	7.72	36	1.1
ZZ55250		0.009	0.21	2.30	54	0.20	29.5	269	1.3



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ55251		0.24	0.004	0.30	1.29	15.9	<0.2	<10	470	0.61	0.24	1.82	2.59	24.2	9.1	26
ZZ55252		0.28	0.005	0.46	1.38	17.3	<0.2	<10	820	0.82	0.26	1.69	2.03	23.4	10.7	28
ZZ55253		0.32	0.003	0.18	0.52	12.9	<0.2	<10	340	0.81	0.30	0.76	0.67	18.40	11.3	10
ZZ55254		0.32	0.003	0.29	0.75	18.8	<0.2	<10	740	0.84	0.24	4.44	0.93	14.95	9.3	13
ZZ55255		0.24	0.003	0.44	1.18	28.6	<0.2	<10	900	0.97	0.28	1.70	2.11	25.5	11.6	21
ZZ55256		0.32	0.003	0.47	0.74	15.2	<0.2	<10	530	1.03	0.33	0.48	0.92	16.20	12.0	15
ZZ55257		0.30	0.003	1.12	0.96	30.6	<0.2	<10	1770	0.84	0.24	0.82	1.63	12.50	4.4	22
ZZ55258		0.24	0.004	0.92	1.30	34.9	<0.2	<10	610	1.09	0.23	0.79	1.01	21.6	8.1	28
ZZ55259		0.26	0.004	0.25	0.95	17.9	<0.2	<10	230	0.27	0.28	0.17	0.73	16.30	5.4	22
ZZ55260		0.30	0.003	0.46	1.22	24.4	<0.2	<10	330	0.77	0.26	0.20	1.17	23.4	13.2	27



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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ55251		0.89	20.4	2.49	4.00	0.09	0.06	0.13	0.033	0.06	24.2	10.0	0.25	745	1.49	0.01
ZZ55252		0.86	28.2	2.85	4.50	0.09	0.07	0.14	0.038	0.08	19.9	12.5	0.27	809	1.75	0.01
ZZ55253		1.01	29.4	2.52	1.95	0.05	0.08	0.09	0.031	0.15	8.9	2.8	0.10	467	1.19	0.01
ZZ55254		1.77	31.4	2.94	2.65	0.06	0.13	0.20	0.032	0.14	8.3	6.6	2.44	724	1.74	0.01
ZZ55255		0.97	29.8	3.82	4.15	0.09	0.10	0.29	0.041	0.09	14.3	11.8	0.82	1660	2.25	0.01
ZZ55256		2.82	40.6	2.94	2.59	0.07	0.11	0.12	0.039	0.15	9.0	4.6	0.17	539	1.91	<0.01
ZZ55257		1.54	23.3	2.35	3.15	0.07	0.13	0.13	0.037	0.08	11.8	4.1	0.09	295	2.41	<0.01
ZZ55258		1.21	42.7	3.91	3.88	0.09	0.11	0.25	0.037	0.08	12.5	11.8	0.35	1120	3.31	0.01
ZZ55259		1.09	20.5	2.58	5.30	0.05	<0.02	0.06	0.023	0.08	8.4	7.7	0.16	410	2.50	<0.01
ZZ55260		1.41	50.8	3.06	4.11	0.07	0.03	0.14	0.036	0.10	11.2	16.7	0.28	497	3.91	0.01

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**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ55251		0.60	33.7	1650	16.5	8.8	0.001	0.15	0.98	2.3	1.7	0.5	27.9	0.01	0.11	0.5
ZZ55252		0.56	44.2	1680	20.5	10.6	0.002	0.13	1.02	3.1	2.4	0.6	37.7	0.01	0.10	0.8
ZZ55253		0.22	27.6	510	25.2	9.4	<0.001	0.05	0.48	4.3	0.9	0.4	27.8	<0.01	0.04	3.0
ZZ55254		0.35	27.0	980	79.8	11.4	<0.001	0.07	0.83	4.1	1.2	0.5	37.5	0.01	0.04	1.9
ZZ55255		0.43	33.7	1370	210	14.2	<0.001	0.09	1.23	4.0	1.6	0.6	29.1	0.01	0.07	1.5
ZZ55256		0.27	39.4	850	32.6	13.8	0.001	0.06	0.87	5.0	1.5	0.5	34.4	0.01	0.06	2.1
ZZ55257		0.22	29.1	1880	28.1	14.3	0.001	0.11	0.70	4.2	2.5	0.6	32.4	0.01	0.10	1.4
ZZ55258		0.35	48.6	1210	51.0	11.5	0.001	0.07	1.53	4.6	2.2	0.5	27.8	0.01	0.09	1.8
ZZ55259		0.33	23.3	820	19.0	14.8	<0.001	0.05	0.91	0.8	1.1	0.7	16.8	<0.01	0.07	<0.2
ZZ55260		0.36	57.5	950	27.8	10.5	0.001	0.03	1.85	4.2	1.8	0.6	34.3	<0.01	0.07	2.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204567**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55251		0.013	0.13	1.81	48	0.17	40.1	177	0.9
ZZ55252		0.011	0.16	3.32	53	0.14	34.0	180	1.3
ZZ55253		<0.005	0.15	0.85	18	0.05	10.40	109	2.1
ZZ55254		0.005	0.24	1.36	28	0.09	12.90	272	3.2
ZZ55255		0.009	0.28	1.86	47	0.14	18.50	501	2.1
ZZ55256		<0.005	0.21	1.54	31	0.07	17.45	158	2.5
ZZ55257		<0.005	0.23	2.81	46	0.11	31.3	190	3.1
ZZ55258		0.006	0.37	2.59	64	0.12	22.6	320	2.5
ZZ55259		0.011	0.23	0.92	61	0.17	3.79	133	<0.5
ZZ55260		0.010	0.31	1.83	65	0.15	12.80	249	<0.5

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204567**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).





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**CERTIFICATE WH12204569**

Project: ATAC- Regional (Area B)  
 P.O. No.: Soil 36  
 This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ58071		0.16	0.002	0.23	1.17	22.8	<0.2	<10	300	0.77	0.18	1.74	0.50	9.95	9.5	21
ZZ58072		0.18	0.002	0.11	1.25	35.5	<0.2	<10	150	0.65	0.26	0.10	0.58	19.50	12.8	22
ZZ58073		0.18	0.002	0.25	1.03	27.6	<0.2	<10	350	0.53	0.20	1.40	1.69	17.10	8.6	20
ZZ58074		0.10	0.001	0.29	0.85	23.8	<0.2	10	500	0.58	0.13	4.15	0.67	5.95	6.1	15
ZZ58075		0.12	0.004	0.27	1.08	49.7	<0.2	<10	460	0.65	0.15	3.28	0.79	9.38	7.3	18
ZZ58076		0.12	0.006	0.33	1.77	233	<0.2	<10	400	1.38	0.19	2.92	2.17	13.10	9.6	24
ZZ58077		0.14	0.004	0.20	1.49	155.5	<0.2	<10	280	1.00	0.23	2.75	1.02	16.30	9.7	24
ZZ58078		0.12	0.003	0.16	1.70	284	<0.2	<10	220	1.09	0.20	2.18	2.92	16.40	12.1	25
ZZ58079		0.10	0.002	0.39	1.46	470	<0.2	<10	450	1.52	0.19	2.66	3.28	15.75	13.5	23
ZZ58080		0.10	0.009	0.36	1.18	48.4	<0.2	<10	550	0.68	0.17	2.63	1.04	17.25	8.7	20
ZZ58081		0.12	0.002	0.62	0.73	32.2	<0.2	10	600	0.45	0.13	3.26	0.59	11.00	6.3	17
ZZ58082		0.12	0.003	0.76	0.84	39.3	<0.2	<10	870	0.57	0.15	2.39	1.11	14.30	7.3	19
ZZ58083		0.18	0.005	1.49	0.80	20.9	<0.2	<10	720	0.55	0.14	2.40	0.94	9.99	5.1	21
ZZ58084		0.14	0.002	0.59	0.87	19.6	<0.2	10	630	0.47	0.12	3.35	0.56	7.03	5.7	18
ZZ58085		0.14	0.004	0.93	0.87	15.8	<0.2	10	510	0.55	0.14	3.50	0.63	9.88	5.0	22
ZZ58086		0.20	0.004	0.90	0.89	23.0	<0.2	10	520	0.60	0.15	2.90	0.59	11.10	6.2	21
ZZ58087		0.14	0.002	0.22	0.52	15.2	<0.2	<10	280	0.19	0.06	4.78	0.38	5.14	3.2	6
ZZ58088		0.12	0.003	0.72	0.86	32.8	<0.2	<10	470	0.46	0.16	3.43	0.52	12.25	5.9	18
ZZ58089		0.08	0.004	0.69	0.80	19.0	<0.2	<10	840	0.36	0.11	4.88	0.46	11.50	3.2	13
ZZ58090		0.14	0.001	0.24	2.13	114.0	<0.2	<10	160	0.98	0.28	0.30	1.55	27.8	10.2	35
ZZ58091		0.10	0.002	0.40	0.58	111.5	<0.2	10	290	0.40	0.11	4.78	1.72	9.00	5.3	16
ZZ58092		0.10	<0.001	0.42	0.57	29.6	<0.2	<10	400	0.25	0.07	4.84	0.99	7.14	2.9	8
ZZ58093		0.18	0.001	0.33	0.69	51.7	<0.2	<10	320	0.45	0.10	1.62	0.61	13.05	4.4	15
ZZ58094		0.14	0.002	0.53	0.91	61.0	<0.2	10	450	0.66	0.13	3.59	1.26	8.75	6.3	18
ZZ58095		0.28	0.005	0.56	1.15	90.3	<0.2	<10	490	0.96	0.19	2.98	1.64	16.60	10.0	23
ZZ58096		0.20	<0.001	0.37	0.89	55.3	<0.2	<10	520	0.65	0.15	2.75	1.42	12.70	6.6	17
ZZ58097		0.18	0.006	0.28	0.91	31.8	<0.2	<10	420	0.66	0.16	1.66	1.03	15.45	8.8	18
ZZ58098		0.24	0.003	0.31	1.01	33.3	<0.2	<10	560	0.65	0.15	1.55	0.71	20.3	7.1	21
ZZ58099		0.18	0.002	0.27	0.87	31.5	<0.2	<10	540	0.61	0.15	2.12	1.11	13.65	8.3	16
ZZ58100		0.20	0.002	0.20	0.85	18.5	<0.2	<10	370	0.90	0.20	1.83	1.34	12.10	10.0	15
ZZ58101		0.20	0.002	0.20	0.79	16.5	<0.2	<10	270	0.74	0.24	1.59	0.64	10.05	8.1	14
ZZ58102		0.10	0.001	0.06	0.66	3.2	<0.2	<10	180	0.25	0.14	3.25	0.73	7.75	4.3	9
ZZ58103		0.16	0.002	0.18	1.77	21.8	<0.2	<10	280	0.74	0.26	1.19	3.15	27.4	9.0	33
ZZ58104		0.26	0.005	0.45	1.56	39.6	<0.2	<10	760	0.86	0.23	1.90	2.15	22.4	10.3	29
ZZ58105		0.18	0.006	3.84	0.39	41.5	<0.2	10	1030	0.56	0.15	2.84	2.12	5.13	3.6	29
ZZ58106		0.20	0.005	1.90	0.73	65.4	<0.2	<10	910	0.45	0.16	1.38	2.30	9.35	4.6	31
ZZ58107		0.18	0.007	2.70	0.55	34.2	<0.2	10	1340	0.60	0.19	1.61	1.41	4.86	4.2	26
ZZ58108		0.14	0.003	1.29	1.38	22.6	<0.2	10	510	2.10	0.14	1.93	3.09	9.04	14.4	23
ZZ58109		0.20	0.004	1.24	0.62	113.5	<0.2	10	370	0.60	0.17	2.10	1.10	9.47	6.3	28
ZZ58110		0.14	0.005	1.24	0.78	35.7	<0.2	<10	510	0.55	0.19	2.31	0.59	13.45	6.7	26



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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58071		0.87	22.8	2.52	3.28	<0.05	0.04	0.07	0.028	0.06	7.4	16.8	0.28	253	0.67	<0.01
ZZ58072		2.63	14.9	2.85	4.68	<0.05	0.03	0.03	0.033	0.06	9.7	13.4	0.18	648	1.46	<0.01
ZZ58073		1.90	13.8	2.20	3.47	<0.05	0.03	0.09	0.029	0.05	13.4	8.7	0.12	467	1.26	0.01
ZZ58074		0.89	24.8	1.58	2.29	<0.05	0.06	0.13	0.021	0.06	9.0	9.1	0.19	241	0.99	0.01
ZZ58075		0.92	23.6	1.86	2.90	<0.05	0.05	0.22	0.023	0.07	6.9	11.8	0.25	317	0.76	0.01
ZZ58076		1.48	36.4	2.53	4.85	<0.05	0.06	0.46	0.031	0.10	8.8	11.0	0.24	423	1.84	0.01
ZZ58077		1.11	21.3	2.77	4.38	<0.05	0.04	0.48	0.029	0.09	9.1	10.6	0.39	515	1.96	0.01
ZZ58078		1.91	25.1	2.94	5.62	<0.05	0.05	0.34	0.035	0.09	12.1	12.2	0.26	458	3.09	0.01
ZZ58079		1.58	39.3	3.15	4.06	<0.05	0.05	0.61	0.029	0.10	12.0	10.4	0.28	449	3.11	0.01
ZZ58080		0.83	22.6	2.11	3.47	<0.05	0.04	0.26	0.023	0.07	9.6	12.0	0.32	523	1.20	0.01
ZZ58081		0.62	19.5	1.46	2.32	<0.05	0.03	0.22	0.020	0.05	6.3	6.1	0.21	384	0.96	0.01
ZZ58082		0.65	27.2	1.95	2.62	<0.05	0.05	0.24	0.021	0.06	8.3	8.3	0.22	316	1.51	0.01
ZZ58083		0.92	33.0	1.46	2.30	<0.05	0.04	0.30	0.024	0.05	6.1	5.9	0.16	215	0.85	0.01
ZZ58084		0.78	30.2	1.49	2.38	<0.05	0.04	0.18	0.020	0.05	4.8	7.7	0.19	271	0.82	0.01
ZZ58085		0.96	32.0	1.21	2.42	<0.05	0.06	0.22	0.020	0.05	6.5	6.4	0.16	265	0.52	0.01
ZZ58086		1.19	28.4	1.53	2.50	<0.05	0.04	0.19	0.024	0.06	7.1	7.0	0.17	315	0.70	0.01
ZZ58087		0.43	10.9	0.59	1.42	<0.05	0.03	0.12	0.009	0.02	2.7	1.3	0.04	457	0.59	0.01
ZZ58088		1.21	21.2	1.29	2.56	<0.05	0.06	0.22	0.020	0.05	9.3	6.5	0.16	269	0.25	0.01
ZZ58089		1.10	11.5	0.98	2.11	<0.05	0.04	0.20	0.018	0.03	10.9	2.8	0.06	785	0.49	0.01
ZZ58090		1.73	11.4	3.35	6.45	<0.05	0.04	0.22	0.041	0.07	14.0	14.4	0.30	407	2.45	<0.01
ZZ58091		0.61	19.7	0.95	1.60	0.05	0.04	0.22	0.017	0.04	12.8	3.2	0.09	319	0.53	0.01
ZZ58092		0.88	15.5	0.75	1.60	<0.05	0.03	0.17	0.009	0.03	5.0	2.4	0.10	366	0.94	0.01
ZZ58093		0.54	15.0	1.29	2.12	<0.05	0.02	0.12	0.016	0.03	12.7	5.0	0.13	303	1.24	<0.01
ZZ58094		0.73	38.5	1.75	2.57	<0.05	0.05	0.22	0.023	0.07	9.1	7.5	0.19	224	1.73	0.01
ZZ58095		0.81	40.6	2.76	3.42	<0.05	0.05	0.36	0.029	0.11	11.5	11.4	0.80	482	3.10	0.01
ZZ58096		0.62	27.7	2.21	2.67	<0.05	0.05	0.26	0.025	0.07	7.1	9.1	0.38	352	1.91	0.01
ZZ58097		0.66	26.9	2.27	2.83	<0.05	0.05	0.24	0.025	0.07	8.9	11.0	0.33	336	1.64	0.01
ZZ58098		0.70	25.3	2.21	3.11	<0.05	0.04	0.22	0.023	0.07	12.1	11.6	0.49	228	1.27	0.01
ZZ58099		0.62	26.1	2.29	2.70	<0.05	0.05	0.23	0.023	0.06	6.6	9.6	0.24	489	2.39	0.01
ZZ58100		0.52	25.9	2.61	2.36	<0.05	0.04	0.16	0.031	0.07	7.0	6.5	0.14	476	2.95	0.01
ZZ58101		0.94	20.6	2.31	2.05	<0.05	0.04	0.20	0.041	0.08	5.6	8.5	0.17	184	2.14	0.01
ZZ58102		0.61	14.3	0.99	1.90	<0.05	0.05	0.10	0.016	0.03	5.7	2.9	0.10	471	1.16	0.02
ZZ58103		1.19	12.5	2.86	4.53	0.05	0.02	0.18	0.034	0.07	18.5	14.3	0.33	446	1.92	0.01
ZZ58104		0.91	36.3	2.68	4.26	<0.05	0.04	0.43	0.032	0.08	12.5	13.3	0.38	809	1.95	0.01
ZZ58105		0.86	51.6	2.21	1.06	0.06	0.04	0.28	0.027	0.08	4.7	2.0	0.09	63	8.85	0.01
ZZ58106		1.06	25.1	2.06	2.27	<0.05	0.03	0.23	0.030	0.06	5.5	3.8	0.04	82	7.64	0.01
ZZ58107		1.64	57.7	2.27	1.72	0.05	0.06	0.22	0.034	0.12	3.8	3.4	0.07	46	11.45	0.01
ZZ58108		3.28	642	2.48	1.71	0.07	0.08	0.18	0.032	0.09	6.1	5.1	0.09	284	1.58	0.01
ZZ58109		1.79	48.0	1.77	1.96	0.06	0.05	0.25	0.038	0.09	8.2	3.9	0.09	229	2.83	0.01
ZZ58110		1.78	43.4	1.88	2.36	<0.05	0.05	0.17	0.029	0.07	7.7	7.7	0.24	198	0.97	0.01

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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58071		0.29	32.3	740	13.4	8.6	0.001	0.08	0.38	3.6	1.4	0.4	27.5	<0.01	0.04	1.4
ZZ58072		0.50	30.5	680	20.9	12.0	<0.001	0.03	0.53	3.5	1.3	0.6	11.5	<0.01	0.08	2.6
ZZ58073		0.40	20.1	1140	18.9	10.5	0.001	0.09	0.42	2.8	1.8	0.5	32.0	<0.01	0.08	0.6
ZZ58074		0.22	24.9	970	10.2	8.6	0.001	0.16	0.49	1.6	1.7	0.3	51.7	<0.01	0.04	0.4
ZZ58075		0.36	26.9	1020	13.4	9.2	0.001	0.16	0.53	2.0	1.5	0.4	38.0	<0.01	0.04	0.6
ZZ58076		0.44	56.7	990	28.0	10.7	<0.001	0.11	1.42	2.7	1.5	0.6	31.9	<0.01	0.03	0.6
ZZ58077		0.65	33.1	640	33.6	9.8	<0.001	0.08	1.26	3.0	1.3	0.5	26.1	<0.01	0.03	0.9
ZZ58078		0.78	87.4	620	31.2	11.9	0.001	0.08	1.81	3.3	2.4	0.7	27.4	<0.01	0.06	0.9
ZZ58079		0.53	120.5	950	32.2	10.0	<0.001	0.12	2.28	2.6	2.3	0.5	33.7	<0.01	0.06	0.6
ZZ58080		0.62	28.6	870	21.5	7.8	0.001	0.11	0.78	2.6	2.2	0.4	60.2	<0.01	0.05	0.9
ZZ58081		0.44	24.8	930	11.7	5.5	0.002	0.16	0.81	1.5	4.2	0.3	86.9	<0.01	0.04	0.3
ZZ58082		0.49	40.8	950	14.4	5.9	0.002	0.10	0.73	2.6	2.7	0.4	66.4	<0.01	0.06	0.8
ZZ58083		0.36	45.2	860	13.2	6.6	0.004	0.12	0.75	2.9	3.8	0.4	60.1	<0.01	0.06	0.8
ZZ58084		0.27	34.7	900	11.0	6.9	0.002	0.17	0.59	1.6	3.7	0.3	75.0	<0.01	0.05	0.5
ZZ58085		0.37	28.7	940	12.3	7.4	0.002	0.14	0.61	1.7	2.5	0.3	72.9	<0.01	0.04	0.5
ZZ58086		0.36	29.5	880	12.6	9.0	0.002	0.13	0.66	2.1	2.5	0.4	51.7	<0.01	0.04	0.5
ZZ58087		0.31	6.4	900	4.9	1.8	0.001	0.19	0.21	0.5	1.4	0.2	53.9	<0.01	0.04	<0.2
ZZ58088		0.46	18.4	670	12.5	10.3	0.002	0.14	0.40	2.9	2.3	0.4	55.8	<0.01	0.07	0.8
ZZ58089		0.46	9.0	1240	8.5	4.1	<0.001	0.19	0.28	1.3	2.0	0.3	88.1	<0.01	0.05	0.3
ZZ58090		1.02	29.7	350	32.5	10.7	<0.001	0.03	0.76	4.1	1.2	0.8	11.0	<0.01	0.06	3.4
ZZ58091		0.25	19.2	1000	9.7	5.1	0.002	0.18	0.57	1.2	3.2	0.3	40.3	<0.01	0.07	0.4
ZZ58092		0.33	13.4	730	8.2	4.5	<0.001	0.14	0.40	0.6	2.3	0.2	64.6	<0.01	0.02	<0.2
ZZ58093		0.32	16.3	570	11.6	3.9	0.001	0.05	0.49	1.4	1.8	0.3	31.3	<0.01	0.02	0.4
ZZ58094		0.33	40.0	790	13.4	6.5	0.001	0.14	1.05	2.0	3.4	0.4	47.7	<0.01	0.05	0.5
ZZ58095		0.34	45.5	990	31.4	8.4	0.003	0.08	1.49	4.0	3.7	0.5	41.8	<0.01	0.04	1.1
ZZ58096		0.30	30.6	940	21.6	7.1	0.005	0.10	1.08	3.0	2.9	0.4	45.7	<0.01	0.05	1.1
ZZ58097		0.44	33.2	900	18.1	6.9	0.006	0.10	0.87	3.5	1.9	0.4	37.8	<0.01	0.04	1.8
ZZ58098		0.55	27.2	890	18.8	6.8	0.002	0.06	0.72	3.6	1.9	0.4	35.3	<0.01	0.04	2.0
ZZ58099		0.37	28.8	930	17.1	6.8	0.003	0.11	1.16	2.7	2.9	0.4	51.7	<0.01	0.04	1.0
ZZ58100		0.24	36.8	800	16.0	7.3	0.001	0.08	0.71	3.5	2.2	0.4	25.3	<0.01	0.06	1.3
ZZ58101		0.21	30.7	700	15.2	8.7	0.002	0.06	0.54	4.3	1.6	0.4	24.2	<0.01	0.05	2.2
ZZ58102		0.45	9.3	870	6.5	4.7	<0.001	0.21	0.36	1.0	0.7	0.2	30.7	<0.01	0.02	0.3
ZZ58103		0.84	36.8	620	15.3	12.5	<0.001	0.06	0.75	3.6	0.9	0.6	18.0	<0.01	0.04	1.7
ZZ58104		0.69	39.3	1000	17.0	9.8	0.001	0.06	1.14	3.9	1.8	0.6	34.6	<0.01	0.05	1.3
ZZ58105		0.08	87.9	1560	8.5	5.0	0.006	0.24	2.11	3.2	11.1	0.4	305	<0.01	0.07	0.5
ZZ58106		0.24	62.5	1240	19.4	5.7	0.002	0.11	1.63	3.2	4.8	0.5	140.5	<0.01	0.08	0.7
ZZ58107		0.06	95.0	1440	10.9	8.8	0.005	0.20	1.90	4.8	6.8	0.6	210	<0.01	0.07	1.1
ZZ58108		0.19	167.5	1170	8.4	11.2	0.002	0.19	0.94	3.8	10.5	0.4	75.5	0.01	0.11	1.1
ZZ58109		0.18	58.0	1580	12.4	8.5	0.004	0.10	1.58	5.6	5.9	0.4	74.2	<0.01	0.10	0.9
ZZ58110		0.58	45.1	1180	8.9	7.4	0.003	0.12	0.89	3.7	4.3	0.4	51.2	<0.01	0.06	1.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ58071		<0.005	0.11	1.51	32	0.22	16.55	124	1.2
ZZ58072		0.009	0.18	0.97	50	0.13	12.30	133	0.8
ZZ58073		0.006	0.13	1.66	45	0.08	21.2	121	1.0
ZZ58074		<0.005	0.14	1.30	25	0.05	20.3	103	1.5
ZZ58075		0.006	0.17	2.60	34	0.15	12.65	120	1.4
ZZ58076		0.005	0.46	4.17	73	0.34	19.80	281	1.7
ZZ58077		0.010	0.31	2.23	64	0.26	10.75	197	1.1
ZZ58078		0.008	0.49	3.14	86	0.35	17.70	496	1.7
ZZ58079		0.007	0.48	3.24	83	0.69	30.0	644	1.6
ZZ58080		0.011	0.17	2.25	44	0.16	12.15	144	1.5
ZZ58081		0.009	0.14	5.69	41	0.10	12.00	112	1.3
ZZ58082		0.009	0.14	2.26	46	0.09	16.50	128	1.5
ZZ58083		0.006	0.14	2.98	46	0.10	17.35	128	1.6
ZZ58084		<0.005	0.13	2.00	37	0.05	12.40	113	1.6
ZZ58085		0.006	0.17	3.29	37	0.09	15.25	107	1.5
ZZ58086		0.006	0.24	2.25	40	0.06	16.15	99	1.4
ZZ58087		0.010	0.07	1.41	14	0.05	4.71	18	1.2
ZZ58088		0.008	0.36	3.10	35	0.15	22.7	74	2.3
ZZ58089		0.011	0.16	3.56	25	0.05	17.30	28	1.5
ZZ58090		0.017	0.28	1.01	89	0.24	10.00	173	1.3
ZZ58091		0.005	0.17	5.93	25	0.05	34.7	75	1.6
ZZ58092		0.010	0.10	2.20	18	<0.05	8.27	59	1.0
ZZ58093		0.008	0.11	2.20	32	0.10	15.00	53	0.7
ZZ58094		<0.005	0.28	4.49	39	0.08	23.9	110	1.8
ZZ58095		0.005	0.29	1.68	60	0.11	22.8	239	1.6
ZZ58096		0.005	0.19	1.57	47	0.08	15.25	173	1.6
ZZ58097		0.008	0.16	1.22	43	0.19	13.85	159	1.5
ZZ58098		0.014	0.16	1.05	46	0.24	14.90	138	1.4
ZZ58099		0.007	0.15	1.78	47	0.15	11.00	174	1.5
ZZ58100		<0.005	0.12	1.70	45	0.06	14.40	156	1.0
ZZ58101		<0.005	0.14	1.00	33	0.05	11.55	141	1.4
ZZ58102		0.019	0.08	0.92	23	0.06	8.15	65	2.0
ZZ58103		0.017	0.17	1.26	75	0.23	18.55	192	0.7
ZZ58104		0.013	0.20	2.18	75	0.17	18.35	171	1.3
ZZ58105		<0.005	0.27	5.96	53	0.11	34.1	248	2.6
ZZ58106		0.006	0.27	3.48	73	0.12	20.0	246	1.3
ZZ58107		<0.005	0.30	3.45	53	0.09	26.2	282	2.6
ZZ58108		<0.005	0.22	8.80	41	0.09	180.0	368	2.7
ZZ58109		<0.005	0.48	3.38	51	0.07	42.9	214	1.6
ZZ58110		0.016	0.21	2.54	44	0.16	21.8	139	1.8



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58111		0.16	0.002	0.42	1.38	50.5	<0.2	<10	390	0.59	0.25	1.61	2.47	21.9	7.8	31
ZZ58112		0.10	0.032	0.47	0.93	42.9	<0.2	<10	640	0.45	0.15	2.56	1.00	9.24	4.4	19
ZZ58113		0.12	0.003	0.12	1.26	42.8	<0.2	<10	280	0.52	0.23	2.66	2.14	13.85	5.1	23
ZZ58114		0.18	0.007	0.16	0.87	26.3	<0.2	<10	200	0.24	0.29	0.17	1.25	15.40	5.2	22
ZZ58115		0.12	0.001	0.40	0.98	41.6	<0.2	<10	560	0.65	0.18	3.08	1.91	16.10	6.5	27
ZZ58116		0.22	0.004	0.18	0.69	19	<0.2	<10	370	0.42	0.13	16.60	2.04	12.60	5.6	13
ZZ58117		0.16	0.003	0.19	0.93	31.2	<0.2	<10	340	0.27	0.21	0.58	0.88	14.25	3.4	19
ZZ58118		0.14	0.002	0.35	1.08	24.5	<0.2	<10	510	0.45	0.15	1.74	1.73	12.75	4.4	26
ZZ58119		0.14	<0.001	0.17	0.30	15.4	<0.2	10	340	0.19	0.05	5.79	0.72	3.19	1.3	4
ZZ58120		0.10	0.005	0.19	0.39	42.0	<0.2	10	400	0.29	0.06	5.28	0.70	3.55	2.1	6
ZZ58121		0.18	<0.001	0.05	1.77	21.1	<0.2	<10	220	0.63	0.31	0.16	0.30	10.70	9.3	26
ZZ58122		0.20	0.006	0.40	1.13	33.6	<0.2	<10	510	0.72	0.20	1.85	0.78	22.5	8.3	24
ZZ58123		0.18	0.002	0.21	1.08	17.7	<0.2	<10	340	0.58	0.17	1.17	0.76	22.1	8.6	22
ZZ58124		0.18	<0.001	0.05	2.05	18.7	<0.2	<10	280	0.83	0.30	0.13	0.69	29.9	10.7	30
ZZ58125		0.20	0.003	0.19	1.10	14.2	<0.2	<10	340	0.49	0.16	1.21	0.77	18.80	8.6	23
ZZ58126		0.12	0.004	0.25	0.96	14.0	<0.2	<10	480	0.63	0.12	3.72	1.49	9.45	6.6	27
ZZ58127		0.10	0.006	0.06	1.07	2.9	<0.2	<10	220	0.32	0.21	2.59	1.48	11.85	6.3	15
ZZ58128		0.16	<0.001	0.08	2.15	11.2	<0.2	<10	350	0.65	0.27	0.87	1.12	24.8	7.1	30
ZZ58129		0.14	0.011	0.52	0.69	12.5	<0.2	<10	690	0.45	0.09	5.07	2.41	13.55	7.8	30
ZZ58130		0.12	0.007	0.92	0.59	11.1	<0.2	<10	1550	0.40	0.13	2.41	1.28	9.37	3.1	14
ZZ58131		0.14	0.009	1.27	0.91	14.0	<0.2	<10	790	0.47	0.12	2.26	4.59	14.60	6.3	19
ZZ58132		0.14	0.006	1.20	0.74	7.0	<0.2	<10	1890	0.63	0.16	2.05	6.79	21.3	6.9	16
ZZ58133		0.14	0.007	0.76	0.71	15.6	<0.2	<10	710	0.63	0.12	2.08	2.93	14.95	5.9	17
ZZ58134		0.14	0.036	0.39	0.77	8.5	<0.2	<10	840	0.36	0.12	3.26	2.61	8.06	5.6	14
ZZ58135		0.16	0.007	1.05	0.95	8.6	<0.2	<10	1060	0.67	0.16	1.93	4.00	14.70	7.2	16
ZZ58136		0.14	0.016	0.97	0.74	5.1	<0.2	<10	2010	0.57	0.11	2.66	3.22	9.51	3.9	12
ZZ58137		0.16	0.007	2.50	0.92	6.5	<0.2	<10	2350	1.00	0.20	1.40	2.92	11.10	6.8	11
ZZ58138		0.22	0.004	1.24	1.14	7.2	<0.2	<10	920	1.25	0.24	1.15	38.8	14.35	5.4	28
ZZ58139		0.12	<0.001	1.79	0.85	28.9	<0.2	<10	660	0.62	0.25	2.31	3.39	14.00	6.2	58
ZZ58140		0.16	0.002	0.92	0.45	15.5	<0.2	<10	300	0.22	0.14	0.48	1.76	6.67	2.0	37
ZZ58141		0.14	<0.001	0.47	1.45	13.7	<0.2	<10	500	0.50	0.29	0.64	1.57	14.50	12.9	24
ZZ58142		0.12	0.008	0.41	0.88	10.0	<0.2	10	200	0.82	0.13	3.53	7.44	12.85	4.8	30
ZZ58143		0.14	0.002	0.83	0.88	13.4	<0.2	<10	220	0.92	0.15	3.43	3.65	16.40	4.5	36
ZZ58144		0.16	0.011	0.55	1.44	22.9	<0.2	<10	240	0.85	0.22	0.96	4.56	15.45	5.8	57
ZZ58145		0.10	<0.001	1.21	0.40	17.0	<0.2	10	350	0.51	0.09	5.14	14.30	10.50	3.7	20
ZZ58146		0.18	0.003	2.19	0.44	24.4	<0.2	<10	240	0.71	0.14	2.51	4.32	15.40	7.9	32
ZZ58147		0.16	<0.001	0.73	0.71	11.7	<0.2	10	390	0.81	0.14	3.72	4.70	10.05	6.6	15
ZZ58148		0.16	0.001	1.09	0.70	16.2	<0.2	<10	290	0.88	0.20	1.91	3.30	12.70	9.1	22
ZZ58149		0.16	0.004	0.76	0.75	12.4	<0.2	<10	310	0.74	0.18	2.02	2.23	11.00	6.4	20
ZZ58150		0.10	0.004	0.74	0.60	8.5	<0.2	10	390	0.50	0.13	3.56	3.16	7.50	6.3	15



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58111		1.35	16.6	2.42	4.78	<0.05	<0.02	0.09	0.033	0.05	13.4	9.1	0.18	739	1.76	0.01
ZZ58112		1.67	14.8	1.52	2.65	<0.05	0.04	0.10	0.021	0.05	7.8	5.2	0.13	507	1.03	0.01
ZZ58113		0.98	12.4	2.09	3.30	<0.05	0.02	0.05	0.029	0.04	14.7	7.6	0.20	657	1.23	0.01
ZZ58114		2.47	17.5	2.54	4.49	<0.05	<0.02	0.03	0.025	0.05	7.7	6.4	0.09	119	2.10	<0.01
ZZ58115		1.21	15.4	2.17	2.71	0.08	0.04	0.12	0.030	0.04	26.6	7.0	0.15	281	1.11	0.01
ZZ58116		0.50	12.0	1.40	1.72	0.08	0.03	0.10	0.021	0.04	25.2	4.8	0.16	459	0.77	0.01
ZZ58117		2.27	11.2	1.91	4.06	<0.05	<0.02	0.06	0.023	0.05	7.1	5.6	0.08	130	3.17	0.01
ZZ58118		1.42	10.7	1.83	2.78	<0.05	0.02	0.08	0.024	0.06	10.1	6.2	0.15	243	1.82	0.01
ZZ58119		0.23	10.4	0.37	0.84	<0.05	0.02	0.12	0.007	0.02	2.9	1.0	0.05	130	0.95	0.01
ZZ58120		0.59	23.6	0.55	1.06	<0.05	0.03	0.15	0.009	0.03	7.0	1.5	0.04	196	0.98	0.01
ZZ58121		1.20	17.7	3.88	4.74	<0.05	0.02	0.14	0.041	0.09	5.3	17.1	0.25	327	1.81	0.01
ZZ58122		1.12	30.5	2.69	3.21	0.05	0.05	0.28	0.036	0.09	14.4	14.6	0.70	316	1.57	0.01
ZZ58123		0.71	21.6	2.40	3.18	<0.05	0.05	0.13	0.023	0.07	11.4	14.5	0.35	394	1.10	0.01
ZZ58124		1.49	15.4	3.57	6.13	<0.05	0.04	0.06	0.038	0.07	12.5	23.4	0.35	487	2.53	0.01
ZZ58125		0.71	17.0	2.35	2.92	<0.05	0.04	0.10	0.025	0.07	9.4	14.0	0.38	513	1.06	0.02
ZZ58126		0.46	27.1	2.12	1.84	0.05	0.04	0.20	0.021	0.05	8.4	5.5	0.14	628	2.07	0.01
ZZ58127		0.73	12.4	1.69	3.50	<0.05	0.02	0.10	0.027	0.04	6.9	4.2	0.11	1240	1.40	0.02
ZZ58128		1.51	5.6	3.01	5.50	<0.05	0.02	0.05	0.034	0.05	11.7	15.9	0.32	277	1.05	0.01
ZZ58129		0.41	16.7	1.23	1.59	0.07	0.03	0.38	0.022	0.04	15.5	4.4	0.07	1260	15.15	0.01
ZZ58130		0.62	37.2	0.94	1.78	<0.05	0.05	0.41	0.023	0.05	4.9	4.4	0.10	174	1.91	<0.01
ZZ58131		0.78	51.4	1.70	2.12	0.05	0.03	0.55	0.020	0.06	7.0	6.1	0.15	615	1.84	0.01
ZZ58132		0.50	71.3	1.86	1.90	0.06	0.03	0.37	0.034	0.05	8.3	3.3	0.09	212	1.62	0.01
ZZ58133		0.51	34.8	2.89	1.88	0.05	0.03	0.23	0.017	0.06	6.8	3.7	0.14	319	6.14	0.01
ZZ58134		0.39	19.5	1.55	2.02	<0.05	0.03	0.21	0.019	0.04	4.2	4.6	0.20	808	1.95	0.01
ZZ58135		0.71	34.0	1.83	2.45	<0.05	0.04	0.27	0.025	0.06	7.3	6.3	0.19	622	2.82	0.01
ZZ58136		0.67	31.9	1.36	1.53	<0.05	0.05	0.25	0.019	0.05	5.2	3.4	0.17	236	1.66	<0.01
ZZ58137		2.46	50.0	1.96	2.14	<0.05	0.04	0.48	0.038	0.10	5.4	3.4	0.11	171	2.95	<0.01
ZZ58138		0.80	83.6	1.47	3.39	0.08	0.07	0.53	0.036	0.08	7.8	13.0	0.18	188	3.13	<0.01
ZZ58139		0.60	67.6	1.93	4.39	0.05	0.04	0.19	0.029	0.06	7.7	4.1	0.22	235	14.70	0.01
ZZ58140		0.68	40.7	0.82	3.40	0.07	<0.02	0.05	0.015	0.05	3.7	1.0	0.04	17	13.45	0.01
ZZ58141		0.92	16.3	2.89	5.35	<0.05	0.02	0.06	0.027	0.06	6.3	14.4	0.22	388	3.32	<0.01
ZZ58142		0.44	24.0	1.27	2.44	<0.05	0.04	0.12	0.019	0.04	11.6	4.7	0.14	220	5.07	0.01
ZZ58143		0.50	25.0	1.50	2.60	<0.05	0.04	0.12	0.022	0.04	14.7	4.5	0.28	216	4.58	0.01
ZZ58144		0.35	39.1	2.13	4.62	<0.05	0.05	0.17	0.032	0.04	10.3	7.8	0.26	104	10.50	0.01
ZZ58145		0.30	51.7	0.97	1.44	0.06	0.04	0.24	0.014	0.05	9.4	2.3	0.27	131	10.65	0.01
ZZ58146		0.33	53.7	2.13	1.69	0.05	0.04	0.28	0.031	0.08	9.0	2.9	0.46	155	13.40	<0.01
ZZ58147		0.46	37.8	1.96	1.92	<0.05	0.04	0.20	0.026	0.06	6.0	6.3	0.20	406	4.58	0.01
ZZ58148		0.43	49.0	2.25	2.09	<0.05	0.04	0.25	0.028	0.08	6.6	8.8	0.19	408	6.90	0.01
ZZ58149		0.46	36.8	1.94	2.23	<0.05	0.04	0.22	0.024	0.06	5.9	8.5	0.19	314	5.40	0.01
ZZ58150		0.40	28.9	1.64	1.69	<0.05	0.05	0.22	0.020	0.06	4.0	6.0	0.24	727	2.52	0.01

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ58111	0.65	21.4	1140	13.5	8.3	0.001	0.10	0.74	2.8	1.4	0.6	31.7	<0.01	0.08	0.5	
ZZ58112	0.42	16.5	1290	7.9	6.7	<0.001	0.18	0.51	1.6	1.2	0.3	94.1	<0.01	0.05	0.4	
ZZ58113	0.58	16.5	1390	12.4	7.0	<0.001	0.15	0.52	1.7	1.5	0.5	33.1	<0.01	0.09	0.3	
ZZ58114	0.85	25.1	310	11.4	9.8	<0.001	0.03	0.83	2.3	1.3	0.7	13.6	<0.01	0.06	2.0	
ZZ58115	0.43	28.2	1250	11.1	7.8	0.002	0.16	0.62	1.7	2.3	0.4	50.9	<0.01	0.06	0.4	
ZZ58116	0.18	16.6	1410	8.8	5.3	0.001	0.13	0.43	1.4	1.7	0.3	117.0	<0.01	0.07	0.4	
ZZ58117	0.74	16.9	450	13.7	14.4	<0.001	0.05	0.72	1.9	1.0	0.7	27.8	<0.01	0.08	1.1	
ZZ58118	0.52	21.7	550	10.1	7.8	<0.001	0.09	0.50	2.2	1.4	0.4	40.3	<0.01	0.02	0.5	
ZZ58119	0.20	11.3	810	2.1	1.0	0.001	0.20	0.32	0.5	2.4	0.2	66.5	<0.01	0.05	<0.2	
ZZ58120	0.17	22.7	1070	3.0	3.7	0.002	0.22	0.76	0.7	4.4	<0.2	65.0	<0.01	0.04	<0.2	
ZZ58121	0.36	21.9	550	22.4	17.4	<0.001	0.03	0.55	3.1	0.2	0.7	10.8	<0.01	0.06	2.2	
ZZ58122	0.56	33.7	970	13.8	9.5	<0.001	0.04	0.83	5.6	1.6	0.4	38.3	<0.01	0.06	2.7	
ZZ58123	0.62	27.8	980	11.0	7.9	0.002	0.06	0.58	3.6	1.3	0.4	32.6	<0.01	0.02	2.1	
ZZ58124	0.80	25.9	600	19.6	12.6	<0.001	0.02	0.53	4.1	1.0	0.8	12.6	<0.01	0.05	3.8	
ZZ58125	0.57	28.9	970	9.9	7.8	0.002	0.08	0.49	3.4	1.1	0.4	28.2	<0.01	0.03	2.0	
ZZ58126	0.27	34.7	1390	11.7	5.2	0.001	0.18	0.77	2.2	3.0	0.3	37.8	<0.01	0.03	0.4	
ZZ58127	0.61	12.4	970	11.3	3.9	<0.001	0.18	0.42	2.1	0.5	0.4	23.3	<0.01	0.05	0.2	
ZZ58128	1.11	14.9	680	14.0	9.3	0.001	0.05	0.38	2.8	0.7	0.7	17.3	<0.01	0.04	1.4	
ZZ58129	0.17	41.3	3770	8.1	3.6	0.003	0.14	0.91	1.9	2.3	0.3	50.1	<0.01	0.07	0.4	
ZZ58130	0.23	24.7	1150	9.6	5.5	0.011	0.16	2.38	1.5	4.2	0.4	60.3	<0.01	0.08	0.5	
ZZ58131	0.30	48.2	2050	11.6	6.0	0.017	0.18	1.91	2.6	9.5	0.4	96.6	<0.01	0.04	0.7	
ZZ58132	0.33	89.2	1530	12.4	4.3	0.005	0.20	2.06	3.9	9.1	0.4	99.5	<0.01	0.01	0.8	
ZZ58133	0.31	60.8	1680	13.6	5.4	0.002	0.10	2.72	3.2	3.5	0.4	62.1	<0.01	0.03	1.1	
ZZ58134	0.40	22.1	1070	6.9	3.8	0.003	0.17	0.97	1.5	2.4	0.3	73.3	<0.01	0.03	0.4	
ZZ58135	0.40	35.9	1190	11.6	7.3	0.002	0.12	1.58	2.8	3.7	0.4	65.2	<0.01	0.05	0.6	
ZZ58136	0.26	38.4	970	7.7	5.4	0.006	0.16	1.65	2.2	3.9	0.3	87.7	<0.01	0.04	0.4	
ZZ58137	0.23	34.4	960	24.3	11.6	0.005	0.11	1.76	5.2	3.7	0.4	62.3	<0.01	0.05	0.6	
ZZ58138	0.34	113.5	640	13.4	8.7	0.086	0.12	7.89	5.1	16.4	0.6	89.4	<0.01	0.12	1.8	
ZZ58139	0.35	112.5	1360	13.3	7.1	0.009	0.12	6.18	1.9	11.7	1.0	96.2	<0.01	0.19	0.7	
ZZ58140	0.19	62.9	270	7.0	5.4	0.001	0.03	5.28	1.1	8.0	0.7	23.4	<0.01	0.13	0.3	
ZZ58141	0.59	27.0	540	19.3	11.2	0.001	0.02	1.19	2.6	1.9	0.7	32.9	<0.01	0.06	2.1	
ZZ58142	0.30	43.8	810	8.4	4.0	0.001	0.12	5.03	1.4	3.5	0.4	48.1	<0.01	0.10	0.5	
ZZ58143	0.44	45.2	510	9.7	5.0	0.001	0.08	3.74	1.8	5.2	0.4	60.0	<0.01	0.09	0.4	
ZZ58144	0.52	84.1	370	15.1	2.9	<0.001	0.05	6.10	3.9	6.6	0.7	25.5	<0.01	0.17	1.9	
ZZ58145	0.18	130.0	1030	6.3	3.8	0.005	0.14	9.52	0.9	7.0	0.3	95.0	<0.01	0.09	0.2	
ZZ58146	0.17	139.5	1290	9.4	5.0	0.005	0.05	7.93	3.6	6.9	0.6	55.2	<0.01	0.08	1.4	
ZZ58147	0.24	74.1	920	9.2	5.5	0.006	0.13	2.97	1.3	7.5	0.4	73.5	<0.01	0.07	0.4	
ZZ58148	0.22	81.0	890	13.0	5.9	0.009	0.07	3.48	3.3	5.1	0.5	50.7	<0.01	0.09	1.4	
ZZ58149	0.21	61.1	710	11.1	6.1	0.021	0.09	2.44	2.5	6.8	0.4	48.9	<0.01	0.06	0.9	
ZZ58150	0.21	72.5	690	8.9	7.4	0.010	0.16	1.89	1.9	8.1	0.3	112.0	<0.01	0.05	0.6	

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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58111		0.020	0.17	2.52	71	0.18	25.3	136	0.5
ZZ58112		0.010	0.23	1.81	44	0.10	17.90	80	1.2
ZZ58113		0.016	0.11	1.28	51	0.13	29.0	187	0.5
ZZ58114		0.018	0.22	0.53	72	0.16	3.15	114	0.5
ZZ58115		0.010	0.17	2.18	39	0.12	51.6	105	1.0
ZZ58116		0.005	0.08	0.57	27	0.06	49.3	116	0.9
ZZ58117		0.016	0.17	0.72	63	0.23	4.72	74	<0.5
ZZ58118		0.012	0.17	1.03	49	0.19	15.95	121	0.8
ZZ58119		0.007	0.05	1.77	10	<0.05	8.29	40	0.9
ZZ58120		0.005	0.10	7.33	18	<0.05	35.2	28	1.3
ZZ58121		<0.005	0.19	0.74	61	0.08	4.06	171	0.7
ZZ58122		0.015	0.15	1.00	44	0.16	22.8	132	1.6
ZZ58123		0.020	0.10	0.82	44	0.30	12.30	133	1.6
ZZ58124		0.012	0.19	1.21	78	0.18	8.05	118	1.3
ZZ58125		0.019	0.10	0.89	45	0.18	10.65	141	1.4
ZZ58126		0.005	0.13	6.38	75	0.05	29.0	181	1.0
ZZ58127		0.028	0.09	0.96	51	0.06	9.17	81	0.8
ZZ58128		0.028	0.16	1.73	76	0.24	10.00	101	0.5
ZZ58129		0.005	0.14	6.65	79	0.06	40.9	129	0.9
ZZ58130		0.005	0.45	5.02	146	0.05	14.25	90	2.1
ZZ58131		0.006	0.30	4.18	128	0.06	19.75	207	1.2
ZZ58132		0.008	0.16	4.28	61	0.12	23.3	210	1.5
ZZ58133		0.008	0.26	2.32	93	0.08	18.40	265	1.0
ZZ58134		0.011	0.09	1.50	69	0.13	6.19	75	1.2
ZZ58135		0.008	0.17	2.07	93	0.11	17.75	150	1.4
ZZ58136		0.006	0.19	1.58	56	0.05	16.25	128	2.1
ZZ58137		<0.005	0.54	2.07	52	0.07	24.0	161	1.3
ZZ58138		<0.005	1.31	9.55	616	0.20	27.7	1130	3.5
ZZ58139		0.010	0.21	5.41	285	0.23	15.00	491	1.5
ZZ58140		0.012	0.19	4.50	229	0.20	3.83	292	<0.5
ZZ58141		0.011	0.16	2.28	156	0.16	3.98	215	0.7
ZZ58142		0.007	0.17	1.27	174	0.11	15.40	464	1.7
ZZ58143		0.009	0.16	2.17	237	0.15	26.2	217	1.1
ZZ58144		0.008	0.30	1.49	389	0.24	18.85	448	1.7
ZZ58145		0.005	0.42	5.18	335	0.10	21.9	1140	1.8
ZZ58146		<0.005	0.20	4.44	307	0.13	23.2	999	1.4
ZZ58147		<0.005	0.12	13.20	91	0.06	12.55	332	1.3
ZZ58148		<0.005	0.14	4.30	130	0.08	15.25	403	1.4
ZZ58149		<0.005	0.11	7.37	104	0.06	13.05	324	1.4
ZZ58150		<0.005	0.14	10.45	72	0.05	7.80	614	1.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58151		0.14	0.001	0.72	0.76	12.2	<0.2	10	240	0.70	0.19	2.22	1.66	11.60	7.4	19
ZZ58152		0.16	0.003	1.54	0.58	16.6	<0.2	10	250	0.73	0.16	2.42	4.31	14.55	7.0	28
ZZ58153		0.14	0.003	1.00	0.69	12.2	<0.2	<10	290	0.84	0.19	1.94	3.29	13.45	9.3	21
ZZ58154		0.14	0.001	0.47	0.44	20.9	<0.2	10	360	0.57	0.21	2.14	0.63	6.21	5.0	16
ZZ58155		0.20	0.002	0.15	0.80	12.4	<0.2	<10	350	0.61	0.26	0.96	0.36	6.02	9.8	13
ZZ58156		0.22	<0.001	0.21	0.74	11.5	<0.2	<10	220	0.63	0.26	1.31	0.84	6.16	6.4	14
ZZ58157		0.14	0.004	1.35	0.76	24.2	<0.2	<10	300	0.78	0.24	1.96	0.79	6.71	9.1	16
ZZ58158		0.20	0.003	0.22	0.89	11.6	<0.2	<10	350	0.79	0.25	1.26	0.65	8.85	11.6	15
ZZ58159		0.14	0.004	0.42	0.76	11.1	<0.2	<10	340	0.79	0.20	2.14	1.31	7.66	10.7	16
ZZ58160		0.10	0.003	0.34	0.68	10.3	<0.2	<10	270	0.62	0.20	2.45	1.21	7.47	8.2	13
ZZ58161		0.12	0.001	0.37	0.75	8.7	<0.2	<10	280	0.70	0.21	1.90	0.96	8.13	6.3	15
ZZ58162		0.20	0.002	0.66	0.80	14.3	<0.2	<10	330	1.00	0.23	1.62	2.22	10.60	10.8	18
ZZ58163		0.14	0.004	0.49	0.78	14.7	<0.2	10	570	0.72	0.21	2.51	2.51	7.76	21.1	14
ZZ58164		0.12	<0.001	0.17	0.34	3.5	<0.2	10	250	0.36	0.05	3.75	1.66	3.06	10.7	4
ZZ58165		0.16	0.004	0.14	0.93	44.5	<0.2	<10	780	0.65	0.16	4.22	0.73	10.85	8.6	13
ZZ58166		0.18	0.001	0.02	1.18	20.1	<0.2	<10	80	0.43	0.26	0.06	0.38	13.15	7.7	17
ZZ58167		0.22	0.002	0.14	1.33	18.2	<0.2	<10	260	0.86	0.31	0.27	0.31	23.7	12.7	25
ZZ58168		0.18	0.003	0.39	0.83	238	<0.2	<10	530	0.73	0.20	1.21	1.59	13.75	9.8	18
ZZ58169		0.14	0.009	0.31	1.60	32.4	<0.2	10	560	1.19	0.33	4.35	1.11	16.40	16.2	27
ZZ58170		0.12	0.002	0.16	0.94	25.6	<0.2	<10	430	0.89	0.22	2.04	0.65	11.20	17.8	16
ZZ58171		0.14	0.003	0.01	0.04	0.5	<0.2	<10	10	<0.05	0.01	0.06	0.02	0.50	0.4	1
ZZ58172		0.18	0.005	1.63	0.50	19.6	<0.2	10	840	0.56	0.25	1.26	0.59	6.82	5.5	20
ZZ58173		0.16	0.004	0.67	0.95	12.2	<0.2	<10	380	0.47	0.17	2.84	0.86	10.85	5.6	20
ZZ58174		0.18	0.004	0.33	0.66	47.5	<0.2	<10	540	0.29	0.24	1.49	1.56	14.50	8.0	18
ZZ58175		0.14	0.006	0.24	0.44	10.6	<0.2	<10	350	0.21	0.11	3.52	2.12	7.88	3.8	11
ZZ58176		0.16	0.002	0.56	0.59	6.2	<0.2	<10	250	0.18	0.23	1.03	1.64	11.50	3.6	14
ZZ58177		0.16	<0.001	0.14	1.02	52.7	<0.2	<10	450	0.43	0.22	1.05	1.29	15.60	6.0	39
ZZ58178		0.20	0.002	0.73	0.66	104.0	<0.2	<10	170	0.58	0.34	3.26	2.66	15.15	42.0	24
ZZ58179		0.18	0.002	0.43	1.32	107.5	<0.2	<10	260	0.70	0.25	0.63	0.75	23.0	6.8	29
ZZ58180		0.14	0.003	0.36	0.93	101.5	<0.2	<10	410	0.64	0.24	0.94	0.97	10.85	7.6	27
ZZ58181		0.16	0.002	0.66	0.98	232	<0.2	<10	190	1.06	0.23	2.25	5.19	41.8	10.3	21
ZZ58182		0.16	0.005	2.32	0.62	300	<0.2	<10	160	0.71	0.19	1.89	10.10	34.7	7.2	31
ZZ58183		0.14	0.004	0.58	1.31	697	<0.2	<10	220	1.04	0.27	2.85	24.3	35.0	16.6	34
ZZ58184		0.20	0.005	1.75	0.78	294	<0.2	<10	380	0.81	0.19	4.61	12.45	29.4	7.1	44
ZZ58185		0.20	0.005	1.23	0.66	102.5	<0.2	<10	980	0.51	0.19	0.90	2.74	11.55	7.1	24
ZZ58186		0.14	0.008	0.50	0.92	28.1	<0.2	10	700	0.45	0.17	3.54	1.13	9.79	6.9	17
ZZ58187		0.18	0.004	0.61	1.03	33.6	<0.2	<10	580	0.69	0.26	1.13	0.75	18.50	10.1	21
ZZ58188		0.12	<0.001	0.40	0.80	17.4	<0.2	<10	300	0.60	0.14	3.34	1.84	10.00	4.8	12
ZZ58189		0.12	0.004	0.59	1.39	78.6	<0.2	<10	440	0.77	0.30	1.94	1.73	18.35	9.3	27
ZZ58190		0.16	0.001	0.26	1.66	76.2	<0.2	<10	330	0.92	0.30	1.33	2.79	24.5	11.5	31



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58151		0.83	41.3	2.25	2.21	<0.05	0.05	0.26	0.031	0.08	6.1	8.3	0.20	281	4.52	0.01
ZZ58152		0.51	59.4	1.84	1.98	<0.05	0.04	0.39	0.023	0.09	7.9	6.8	0.30	274	8.94	<0.01
ZZ58153		0.56	46.7	2.05	2.14	<0.05	0.05	0.34	0.031	0.08	6.9	8.1	0.19	644	4.71	0.01
ZZ58154		1.22	28.1	1.66	1.32	<0.05	0.05	0.60	0.033	0.07	3.2	4.7	0.10	193	3.69	0.01
ZZ58155		1.23	28.4	3.05	2.14	<0.05	0.04	0.16	0.037	0.08	2.4	9.5	0.21	153	2.83	0.01
ZZ58156		1.25	26.1	2.61	2.08	<0.05	0.03	0.21	0.033	0.08	2.6	9.9	0.21	89	3.07	0.01
ZZ58157		1.77	40.3	2.59	2.28	<0.05	0.04	0.87	0.032	0.09	3.1	8.8	0.21	276	3.10	0.01
ZZ58158		0.96	32.2	2.84	2.50	<0.05	0.04	0.18	0.038	0.08	3.6	13.5	0.23	329	2.37	0.01
ZZ58159		0.77	33.0	2.41	2.22	<0.05	0.05	0.25	0.030	0.08	3.6	9.6	0.24	762	2.82	0.01
ZZ58160		0.73	29.4	2.17	2.04	<0.05	0.04	0.20	0.030	0.08	3.5	8.6	0.22	393	2.73	0.01
ZZ58161		0.73	31.5	2.18	2.07	<0.05	0.05	0.27	0.027	0.07	4.0	9.5	0.22	125	2.31	<0.01
ZZ58162		1.04	45.5	2.80	2.40	<0.05	0.04	0.28	0.031	0.07	4.9	9.0	0.19	265	4.01	0.01
ZZ58163		0.70	34.5	2.60	2.33	<0.05	0.06	0.28	0.030	0.07	3.2	8.3	0.21	4050	5.25	0.01
ZZ58164		0.31	29.8	1.01	0.64	<0.05	0.04	0.10	0.010	0.02	1.7	1.1	0.16	419	2.15	0.02
ZZ58165		0.50	24.3	3.83	2.58	<0.05	0.05	1.15	0.023	0.04	4.8	14.1	1.99	535	5.13	0.01
ZZ58166		0.86	16.7	3.37	4.79	<0.05	0.02	0.04	0.031	0.06	5.6	17.9	0.12	249	2.60	<0.01
ZZ58167		1.00	29.8	3.05	4.55	<0.05	<0.02	0.17	0.026	0.10	10.4	20.4	0.40	342	1.83	0.01
ZZ58168		1.52	36.3	2.49	2.72	<0.05	0.05	0.39	0.033	0.07	6.6	13.4	0.43	449	2.30	0.01
ZZ58169		0.84	42.1	4.38	4.86	0.06	0.07	0.50	0.045	0.11	7.3	20.0	0.57	1440	2.36	0.02
ZZ58170		0.58	22.8	3.76	2.95	<0.05	0.04	0.24	0.030	0.08	5.2	13.0	0.32	2470	1.78	0.01
ZZ58171		0.09	1.0	0.10	0.12	<0.05	<0.02	0.02	<0.005	0.01	0.2	0.6	0.01	18	0.07	<0.01
ZZ58172		1.95	51.0	2.84	1.48	<0.05	0.05	0.21	0.042	0.14	5.0	2.4	0.08	107	3.48	0.01
ZZ58173		2.06	21.3	1.60	3.04	0.06	0.06	0.13	0.025	0.05	8.2	4.7	0.15	384	1.11	0.01
ZZ58174		2.54	14.4	2.00	3.37	0.07	0.02	0.06	0.027	0.05	6.8	4.1	0.11	514	1.37	0.01
ZZ58175		0.72	9.9	1.06	1.56	0.05	0.03	0.10	0.012	0.03	8.2	2.1	0.06	305	0.73	0.01
ZZ58176		2.54	9.9	1.04	3.94	<0.05	<0.02	0.07	0.017	0.04	6.6	1.9	0.06	213	1.03	<0.01
ZZ58177		1.31	10.5	2.21	3.50	0.05	0.02	0.05	0.033	0.04	14.8	10.0	0.11	493	1.05	0.01
ZZ58178		0.65	63.6	1.68	2.32	0.08	0.05	0.15	0.042	0.09	17.3	4.1	0.10	380	2.75	0.01
ZZ58179		1.69	17.0	2.33	3.88	<0.05	0.02	0.09	0.031	0.06	13.1	9.3	0.18	251	2.09	0.01
ZZ58180		1.11	21.8	2.23	2.80	<0.05	0.04	0.17	0.032	0.08	7.4	7.0	0.12	222	2.47	0.01
ZZ58181		0.95	21.8	2.80	2.66	0.05	0.04	0.14	0.029	0.09	27.1	5.9	0.18	434	4.98	0.01
ZZ58182		1.29	38.0	1.97	2.40	0.06	0.04	0.31	0.029	0.10	27.5	5.1	0.13	194	12.55	0.01
ZZ58183		1.04	28.2	3.73	3.78	0.05	0.04	0.63	0.028	0.08	29.2	7.9	0.30	464	36.5	0.01
ZZ58184		1.72	53.9	1.80	2.67	0.07	0.06	0.56	0.027	0.09	29.6	6.2	0.47	218	22.7	0.01
ZZ58185		1.39	33.2	2.51	2.01	<0.05	0.04	0.19	0.034	0.09	6.2	5.6	0.13	236	6.32	0.01
ZZ58186		1.12	29.5	1.76	2.50	<0.05	0.05	0.16	0.024	0.08	10.4	7.5	0.18	292	1.61	0.02
ZZ58187		0.77	27.5	2.63	2.87	<0.05	0.04	0.19	0.034	0.08	10.6	12.5	0.26	381	2.03	0.01
ZZ58188		1.01	22.9	1.36	2.01	<0.05	0.04	0.19	0.017	0.06	10.6	3.7	0.12	177	1.16	0.01
ZZ58189		1.39	30.0	2.57	3.83	0.05	0.05	0.43	0.034	0.09	17.4	10.8	0.21	574	2.28	0.01
ZZ58190		1.44	23.2	2.97	4.73	0.06	0.05	0.13	0.041	0.08	15.7	14.9	0.32	555	3.01	0.01

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ58151		0.24	80.1	650	12.0	8.8	0.008	0.08	2.76	2.9	4.0	0.4	60.2	<0.01	0.06	1.0
ZZ58152		0.19	96.0	1060	11.1	8.2	0.019	0.10	5.23	3.2	7.1	0.5	72.2	<0.01	0.07	1.2
ZZ58153		0.23	91.0	870	12.4	7.3	0.014	0.10	2.58	3.2	5.5	0.4	56.7	<0.01	0.07	1.1
ZZ58154		0.10	18.6	640	11.8	7.1	0.010	0.09	1.00	3.5	2.4	0.4	80.6	<0.01	0.09	0.8
ZZ58155		0.08	33.7	560	16.8	8.0	0.004	0.06	0.67	4.6	2.5	0.4	42.6	<0.01	0.05	2.0
ZZ58156		0.09	34.0	550	15.9	8.4	0.017	0.09	0.72	4.2	3.1	0.4	52.6	<0.01	0.07	1.9
ZZ58157		0.15	54.4	680	14.2	10.3	0.012	0.11	1.38	3.8	3.5	0.5	70.2	<0.01	0.09	0.9
ZZ58158		0.17	45.6	660	15.4	8.1	0.007	0.07	0.69	4.4	2.6	0.4	56.0	<0.01	0.08	2.0
ZZ58159		0.15	51.7	710	12.6	8.6	0.014	0.11	1.12	3.3	3.3	0.4	65.8	<0.01	0.05	1.0
ZZ58160		0.19	40.7	690	11.9	7.7	0.012	0.13	1.20	2.7	4.0	0.3	66.6	<0.01	0.05	0.9
ZZ58161		0.15	40.1	640	13.5	6.5	0.025	0.12	0.98	3.4	3.9	0.4	56.5	<0.01	0.07	1.2
ZZ58162		0.19	73.7	800	14.6	9.3	0.017	0.12	1.80	4.0	5.4	0.4	54.6	<0.01	0.07	1.2
ZZ58163		0.15	64.5	840	12.5	6.6	0.025	0.19	1.37	2.9	4.4	0.4	71.6	<0.01	0.09	0.9
ZZ58164		0.10	54.4	680	2.9	1.8	0.041	0.70	1.54	1.0	3.9	<0.2	86.8	<0.01	0.02	0.3
ZZ58165		0.33	27.8	580	44.8	5.5	0.011	0.29	1.00	2.9	1.4	0.4	41.9	<0.01	0.03	1.5
ZZ58166		0.40	23.9	280	17.6	10.7	<0.001	0.01	0.81	2.3	0.8	0.6	5.7	<0.01	0.05	2.2
ZZ58167		0.48	30.7	530	17.5	9.9	<0.001	0.01	0.77	4.2	0.9	0.6	18.7	<0.01	0.05	3.2
ZZ58168		0.30	38.6	850	18.8	8.5	0.005	0.10	1.23	4.0	2.4	0.4	44.6	<0.01	0.05	2.0
ZZ58169		0.69	43.1	1660	24.5	10.8	0.014	0.40	0.91	3.8	2.2	0.6	96.7	<0.01	0.06	1.2
ZZ58170		0.32	28.1	720	17.3	8.1	0.008	0.15	0.54	3.5	1.8	0.4	47.6	<0.01	0.03	1.4
ZZ58171		<0.05	1.2	20	0.6	0.7	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	1.2	<0.01	<0.01	<0.2
ZZ58172		0.11	62.8	1380	15.3	11.8	0.001	0.25	1.56	4.2	5.2	0.4	73.5	<0.01	0.17	1.2
ZZ58173		0.60	26.4	1280	8.0	6.8	<0.001	0.16	0.65	1.8	2.4	0.3	51.6	0.01	0.07	0.3
ZZ58174		0.63	19.8	700	12.1	8.3	0.001	0.09	0.72	2.5	2.3	0.4	41.6	<0.01	0.08	0.5
ZZ58175		0.39	11.4	1240	5.8	4.1	<0.001	0.22	0.41	0.9	1.3	0.2	45.4	0.01	0.07	<0.2
ZZ58176		0.67	9.3	850	9.0	8.2	<0.001	0.09	0.44	1.5	0.7	0.6	25.4	<0.01	0.04	0.2
ZZ58177		0.31	19.3	970	12.9	6.3	0.001	0.07	0.28	2.4	0.6	0.4	23.5	<0.01	0.05	0.8
ZZ58178		0.20	103.0	1060	23.9	7.4	0.001	0.05	1.72	4.3	4.0	0.5	25.3	<0.01	0.27	1.8
ZZ58179		0.55	32.5	700	12.4	10.3	<0.001	0.04	0.81	3.9	0.7	0.4	21.5	<0.01	0.04	1.2
ZZ58180		0.33	37.2	510	11.6	10.8	<0.001	0.06	1.02	3.3	2.4	0.6	28.5	<0.01	0.03	1.0
ZZ58181		0.30	63.5	820	18.0	9.7	0.001	0.09	2.89	3.1	1.3	0.4	45.3	<0.01	0.02	1.1
ZZ58182		0.25	74.4	690	22.3	9.9	0.002	0.08	7.61	3.4	2.8	0.5	27.6	<0.01	0.12	1.1
ZZ58183		0.45	242	1220	59.5	7.4	0.003	0.11	7.52	3.5	3.9	0.6	34.5	<0.01	0.08	0.8
ZZ58184		0.30	151.0	1470	22.5	8.5	0.008	0.15	7.93	2.5	9.0	0.4	62.0	<0.01	0.11	0.6
ZZ58185		0.18	58.9	1500	28.6	10.5	0.004	0.12	1.87	4.0	4.1	0.4	83.7	<0.01	0.09	1.4
ZZ58186		0.34	31.6	1090	10.8	8.5	<0.001	0.17	1.00	1.9	2.6	0.3	50.6	<0.01	0.04	0.5
ZZ58187		0.28	39.5	580	16.1	7.2	0.001	0.06	0.89	4.1	1.3	0.4	23.3	<0.01	0.09	1.4
ZZ58188		0.31	20.9	970	7.4	6.4	<0.001	0.18	0.69	1.3	1.8	0.2	45.6	<0.01	0.03	0.3
ZZ58189		0.49	35.3	1070	18.6	13.2	0.001	0.09	1.02	3.1	1.8	0.5	32.5	<0.01	0.05	0.9
ZZ58190		0.62	41.9	540	19.6	12.2	<0.001	0.05	1.18	4.9	1.9	0.6	26.4	<0.01	0.08	2.1

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58151		0.005	0.18	6.81	120	0.08	11.80	577	1.3
ZZ58152		<0.005	0.30	5.27	208	0.09	20.7	685	2.1
ZZ58153		<0.005	0.20	6.52	128	0.06	15.20	593	1.4
ZZ58154		<0.005	0.30	6.13	36	<0.05	9.42	57	1.1
ZZ58155		<0.005	0.16	7.66	24	<0.05	6.17	101	1.1
ZZ58156		<0.005	0.17	4.78	29	<0.05	6.82	161	1.1
ZZ58157		<0.005	0.27	17.25	49	<0.05	10.05	153	1.3
ZZ58158		<0.005	0.14	5.34	28	<0.05	8.97	136	1.2
ZZ58159		<0.005	0.16	6.60	52	<0.05	9.91	239	1.2
ZZ58160		<0.005	0.15	6.82	46	0.10	8.36	196	1.4
ZZ58161		<0.005	0.13	4.98	46	<0.05	9.77	178	1.3
ZZ58162		<0.005	0.18	6.67	77	<0.05	13.20	345	1.6
ZZ58163		<0.005	0.15	8.98	57	<0.05	8.13	235	1.5
ZZ58164		<0.005	0.07	14.05	12	<0.05	4.87	102	1.5
ZZ58165		<0.005	0.12	2.28	33	0.06	7.61	91	1.7
ZZ58166		0.005	0.16	0.49	71	0.09	2.36	112	1.0
ZZ58167		0.014	0.15	0.99	43	0.13	7.85	120	<0.5
ZZ58168		0.005	0.41	1.29	51	0.06	11.70	205	1.7
ZZ58169		0.005	0.34	2.70	49	0.11	12.30	180	2.5
ZZ58170		<0.005	0.25	1.99	34	0.05	9.08	127	1.4
ZZ58171		<0.005	0.02	0.05	1	<0.05	0.33	4	<0.5
ZZ58172		<0.005	0.34	2.77	41	0.06	27.0	254	1.7
ZZ58173		0.013	0.22	2.29	40	0.09	21.3	117	1.8
ZZ58174		0.020	0.19	1.18	53	0.15	11.55	110	0.5
ZZ58175		0.011	0.08	0.84	24	0.10	14.60	131	1.0
ZZ58176		0.019	0.32	0.89	35	0.15	5.18	53	<0.5
ZZ58177		0.013	0.23	1.22	51	0.07	26.3	92	0.5
ZZ58178		0.007	0.19	1.85	49	0.12	47.7	318	1.1
ZZ58179		0.013	0.23	2.11	58	0.15	24.5	114	0.5
ZZ58180		0.006	0.28	2.30	48	0.11	16.50	134	1.3
ZZ58181		0.007	0.40	2.08	149	0.18	34.3	514	1.2
ZZ58182		0.006	0.57	3.76	401	0.25	34.3	803	1.6
ZZ58183		0.009	1.31	7.51	372	0.40	42.5	2150	1.3
ZZ58184		0.006	1.38	6.72	376	0.27	50.3	1050	1.8
ZZ58185		<0.005	0.43	2.64	81	0.14	16.10	383	1.8
ZZ58186		0.007	0.25	2.71	40	0.07	21.0	164	1.5
ZZ58187		0.006	0.16	1.26	44	0.10	18.55	137	1.0
ZZ58188		0.007	0.14	2.65	25	0.08	21.9	91	1.7
ZZ58189		0.008	0.31	2.61	66	0.15	33.0	166	1.1
ZZ58190		0.008	0.30	1.11	73	0.15	23.8	167	1.5



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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58191		0.12	0.006	0.14	1.34	19.8	<0.2	<10	420	0.71	0.25	2.56	1.81	16.50	11.4	22
ZZ58192		0.12	0.002	0.35	1.29	37.5	<0.2	<10	560	0.66	0.35	2.81	1.75	14.45	8.4	22
ZZ58193		0.14	0.008	0.32	1.30	47.8	<0.2	<10	580	0.75	0.23	2.55	1.37	14.80	8.8	23
ZZ58194		0.14	0.006	0.27	1.35	68.7	<0.2	<10	400	0.81	0.21	2.42	1.32	15.60	8.7	26
ZZ58195		0.12	0.008	0.17	0.93	57.8	<0.2	<10	340	0.63	0.18	2.90	2.23	12.25	6.9	19
ZZ58196		0.12	<0.001	0.17	0.70	24.7	<0.2	<10	300	0.40	0.11	4.55	3.78	9.66	3.9	12
ZZ58197		0.16	0.007	0.52	0.65	62.7	<0.2	10	380	0.65	0.16	4.10	1.34	6.72	6.0	18
ZZ58198		0.12	0.003	0.20	0.24	2.2	<0.2	10	420	0.11	0.06	5.79	2.13	3.08	0.6	4
ZZ58199		0.12	0.004	0.24	0.55	30.5	<0.2	<10	330	0.32	0.09	4.23	0.79	3.67	2.0	11
ZZ58200		0.12	0.004	0.22	0.69	29.0	<0.2	10	420	0.41	0.16	3.73	1.51	8.68	6.0	13
ZZ58201		0.14	0.002	0.19	0.99	21.7	<0.2	<10	470	0.64	0.18	2.83	0.61	13.65	7.8	18
ZZ58202		0.18	0.002	0.21	1.08	22.5	<0.2	<10	340	0.80	0.23	2.16	1.04	16.90	11.1	21
ZZ58203		0.12	0.001	0.15	1.25	9.6	<0.2	10	320	0.66	0.21	1.53	0.71	7.97	9.9	22
ZZ58204		0.22	0.002	0.18	1.53	10.7	<0.2	<10	340	0.88	0.28	1.02	0.20	8.80	11.4	26
ZZ58205		0.20	0.006	0.13	1.40	9.4	<0.2	<10	290	0.81	0.27	1.42	0.31	8.41	12.7	22
ZZ58206		0.14	0.007	0.13	1.00	8.2	<0.2	<10	390	0.60	0.19	2.50	0.51	5.94	7.3	17
ZZ58207		0.16	0.001	0.22	0.97	9.2	<0.2	<10	470	0.66	0.20	2.21	0.67	9.92	8.5	17
ZZ58208		0.20	0.002	0.16	1.19	10.3	<0.2	<10	530	0.61	0.23	1.35	0.22	8.92	9.5	20
ZZ58209		0.16	0.003	0.15	1.05	9.6	<0.2	<10	650	0.67	0.22	1.08	0.72	8.69	10.0	18
ZZ58210		0.14	0.003	0.59	0.87	13.8	<0.2	<10	620	0.78	0.19	1.28	3.94	10.50	9.9	19
ZZ58211		0.10	0.002	0.86	0.44	7.9	<0.2	10	530	0.51	0.09	4.21	4.36	7.51	4.2	14
ZZ58212		0.18	0.003	1.69	0.39	16.2	<0.2	<10	850	0.80	0.16	2.24	7.17	15.55	11.3	16
ZZ58213		0.18	0.003	0.86	0.67	16.1	<0.2	<10	930	0.96	0.21	1.24	2.96	19.30	11.7	18
ZZ58214		0.20	0.004	0.24	1.03	10.7	<0.2	<10	290	0.88	0.29	1.63	0.62	16.35	10.1	19
ZZ58215		0.22	0.001	0.20	1.12	17.7	<0.2	<10	280	0.99	0.35	1.19	0.53	16.20	15.5	21
ZZ58216		0.26	0.002	0.18	1.40	16.0	<0.2	<10	330	1.02	0.32	0.63	0.57	15.60	18.0	25
ZZ58217		0.16	0.002	0.12	1.39	10.3	<0.2	<10	290	0.96	0.22	1.09	0.26	26.4	12.0	25
ZZ58218		0.18	0.003	0.15	1.46	10.0	<0.2	<10	230	1.00	0.22	0.86	0.42	34.5	16.7	26
ZZ58219		0.16	0.001	0.12	1.71	7.8	<0.2	<10	170	0.87	0.16	1.24	0.43	53.1	18.8	33
ZZ58220		0.14	<0.001	0.19	1.14	8.3	<0.2	<10	190	0.80	0.18	1.88	0.72	30.0	13.9	28
ZZ58221		0.20	<0.001	0.13	0.81	7.5	<0.2	<10	290	1.36	0.47	0.76	0.13	13.85	14.4	14
ZZ58222		0.20	0.002	0.45	0.76	11.5	<0.2	<10	200	1.01	0.23	1.34	1.45	21.7	13.5	15
ZZ58223		0.20	0.004	0.22	0.98	10.1	<0.2	<10	180	0.87	0.25	1.48	0.81	24.7	11.5	19
ZZ58224		0.16	0.002	0.18	0.94	13.7	<0.2	<10	190	1.00	0.26	1.58	0.55	25.3	12.3	19
ZZ58225		0.22	0.003	0.18	0.67	13.6	<0.2	<10	130	0.96	0.34	1.30	0.43	15.50	11.4	13
ZZ58226		0.14	0.006	0.09	0.47	7.7	<0.2	<10	150	0.83	0.23	3.18	0.29	14.15	8.0	10
ZZ58227		0.16	0.001	0.11	0.72	14.7	<0.2	<10	240	0.93	0.26	1.32	0.26	17.50	10.3	14
ZZ58228		0.12	0.005	0.11	0.60	25.4	<0.2	<10	330	0.66	0.21	3.68	0.32	10.20	7.9	11
ZZ58229		0.18	0.003	0.17	0.48	61	<0.2	<10	210	0.62	0.16	10.95	0.43	20.2	7.8	7
ZZ58230		0.12	0.016	0.10	0.57	11.8	<0.2	10	320	0.77	0.22	3.26	0.34	14.20	7.7	10



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ58191		0.73	30.5	2.49	3.64	0.05	0.03	0.19	0.033	0.05	12.7	11.2	0.25	1060	0.98	0.01
ZZ58192		1.08	31.5	2.04	3.56	<0.05	0.04	0.34	0.017	0.06	9.5	9.7	0.26	650	1.23	0.01
ZZ58193		1.16	29.9	2.15	3.74	<0.05	0.04	0.26	0.026	0.06	9.5	11.0	0.25	547	1.58	0.01
ZZ58194		1.05	30.3	2.21	3.52	0.05	0.04	0.24	0.029	0.07	16.9	10.2	0.19	501	3.39	0.01
ZZ58195		0.65	18.8	1.84	2.65	0.05	0.02	0.13	0.019	0.06	13.4	7.5	0.17	386	1.71	0.01
ZZ58196		0.65	13.0	0.96	1.63	<0.05	0.02	0.18	0.015	0.03	17.4	2.3	0.05	137	0.67	0.01
ZZ58197		1.21	36.6	1.44	1.83	<0.05	0.05	0.53	0.020	0.07	9.5	4.0	0.09	303	1.10	0.01
ZZ58198		0.48	11.8	0.35	0.71	<0.05	0.04	0.12	0.006	0.01	2.1	0.4	0.02	22	0.17	0.02
ZZ58199		1.02	14.9	0.61	1.37	<0.05	0.06	0.21	0.007	0.04	5.8	1.5	0.03	115	0.90	0.01
ZZ58200		0.55	20.8	1.47	1.89	<0.05	0.05	0.18	0.022	0.06	5.8	7.2	0.18	344	0.84	0.01
ZZ58201		0.45	17.5	2.22	2.76	<0.05	0.03	0.24	0.025	0.06	7.6	13.4	0.31	326	1.39	0.01
ZZ58202		0.60	27.5	2.76	3.36	<0.05	0.05	0.27	0.035	0.10	8.4	18.5	0.54	484	1.39	0.01
ZZ58203		0.54	27.1	2.55	3.55	<0.05	0.05	0.10	0.027	0.10	3.8	27.2	0.46	356	0.96	0.02
ZZ58204		0.78	26.2	3.03	4.41	<0.05	0.04	0.08	0.037	0.10	3.6	26.5	0.37	487	1.48	0.01
ZZ58205		0.58	27.0	2.78	3.97	<0.05	0.05	0.05	0.033	0.09	3.5	25.2	0.35	598	1.22	0.01
ZZ58206		0.47	24.7	2.22	2.85	<0.05	0.05	0.08	0.027	0.07	2.8	17.3	0.27	326	1.04	0.01
ZZ58207		0.44	24.3	2.34	2.74	<0.05	0.04	0.19	0.035	0.08	4.6	14.7	0.30	260	1.24	0.01
ZZ58208		0.71	21.8	2.84	3.61	<0.05	0.03	0.12	0.033	0.08	3.8	17.9	0.32	241	2.07	0.01
ZZ58209		0.56	25.4	2.63	3.42	<0.05	0.04	0.08	0.034	0.10	3.5	14.0	0.24	215	2.04	0.01
ZZ58210		0.45	41.0	2.36	2.91	0.05	0.04	0.21	0.034	0.09	4.7	9.7	0.17	328	7.44	0.01
ZZ58211		0.29	48.6	1.09	1.47	0.05	0.05	0.25	0.015	0.05	3.7	3.5	0.17	233	1.79	0.01
ZZ58212		0.76	67.5	1.99	1.72	0.06	0.04	0.43	0.030	0.10	6.6	3.0	0.32	578	8.54	0.01
ZZ58213		0.57	61.6	2.71	2.42	0.05	0.04	0.25	0.040	0.11	9.3	4.8	0.09	686	8.46	0.01
ZZ58214		0.88	33.8	2.65	3.61	<0.05	0.10	0.27	0.026	0.12	7.4	17.8	0.61	336	1.39	0.01
ZZ58215		1.33	38.9	3.39	3.83	<0.05	0.07	0.50	0.038	0.12	6.9	18.9	0.66	437	2.02	0.01
ZZ58216		1.24	38.3	3.63	4.77	0.05	0.06	0.18	0.043	0.13	6.4	26.5	0.47	521	2.22	0.01
ZZ58217		0.56	28.8	3.02	4.83	<0.05	0.04	0.16	0.035	0.10	11.1	22.2	0.48	365	1.13	0.01
ZZ58218		0.79	32.4	3.26	5.21	0.06	0.06	0.25	0.046	0.13	14.4	25.0	0.55	652	1.31	0.01
ZZ58219		0.97	29.0	3.83	6.53	0.08	0.06	0.20	0.038	0.13	21.7	34.6	0.94	551	1.41	0.01
ZZ58220		0.89	29.4	2.65	4.26	0.05	0.06	0.23	0.031	0.11	12.6	20.9	0.54	878	1.17	0.01
ZZ58221		3.90	54.0	3.57	2.84	<0.05	0.05	0.11	0.038	0.13	5.4	16.4	0.28	597	1.35	<0.01
ZZ58222		1.42	32.3	2.71	2.84	<0.05	0.06	0.22	0.034	0.11	8.1	13.1	0.27	349	5.00	0.01
ZZ58223		0.70	30.8	2.67	3.35	0.05	0.08	0.38	0.033	0.10	9.9	16.5	0.37	635	1.34	0.01
ZZ58224		0.61	32.2	2.83	3.42	0.05	0.05	0.40	0.036	0.09	10.9	16.0	0.46	505	1.54	0.01
ZZ58225		0.90	40.5	2.94	2.21	0.05	0.06	0.42	0.036	0.09	7.0	11.6	0.35	379	1.32	<0.01
ZZ58226		0.58	27.8	2.15	1.46	<0.05	0.06	0.32	0.025	0.06	5.8	4.7	0.53	402	0.63	0.01
ZZ58227		1.84	28.0	2.51	2.32	<0.05	0.06	0.40	0.036	0.09	7.5	10.7	0.29	346	0.74	<0.01
ZZ58228		1.05	30.5	1.78	1.83	<0.05	0.06	0.69	0.027	0.07	4.5	5.8	0.89	340	1.03	0.01
ZZ58229		0.82	20.9	2.02	1.48	<0.05	0.05	2.71	0.019	0.08	8.4	4.3	5.76	470	2.85	0.01
ZZ58230		0.88	23.4	2.11	1.73	<0.05	0.04	0.52	0.029	0.07	5.9	6.4	0.67	413	0.71	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58191		0.49	23.7	1060	15.6	5.4	0.001	0.12	0.51	2.7	0.9	0.4	37.0	<0.01	0.04	0.6
ZZ58192		0.50	27.8	1090	20.0	8.4	0.001	0.13	0.77	2.2	1.8	0.4	42.5	<0.01	0.03	0.5
ZZ58193		0.59	30.0	850	13.8	10.2	0.002	0.10	0.79	2.8	1.2	0.4	41.3	<0.01	0.01	0.7
ZZ58194		0.40	41.4	580	16.8	8.7	<0.001	0.08	1.07	4.1	4.2	0.4	40.5	<0.01	0.04	0.9
ZZ58195		0.32	31.2	770	12.3	8.9	0.001	0.09	0.76	2.0	2.4	0.4	36.8	<0.01	0.01	0.3
ZZ58196		0.25	13.6	1010	6.1	3.4	<0.001	0.16	0.32	1.7	2.5	0.2	57.9	<0.01	0.01	<0.2
ZZ58197		0.18	38.2	1000	7.4	9.0	0.005	0.15	0.63	1.4	4.0	0.3	63.0	<0.01	0.01	0.3
ZZ58198		0.19	15.6	510	2.2	1.2	0.001	0.18	0.26	0.9	1.1	0.2	59.9	0.01	<0.01	0.2
ZZ58199		0.20	13.7	790	4.1	5.5	0.001	0.15	0.37	1.2	2.4	0.2	50.3	<0.01	<0.01	0.2
ZZ58200		0.26	23.6	760	13.1	7.5	0.001	0.14	0.56	1.5	1.7	0.3	51.4	<0.01	0.01	0.4
ZZ58201		0.26	26.7	690	13.4	5.8	0.002	0.10	0.88	2.3	1.2	0.3	53.1	<0.01	0.03	0.7
ZZ58202		0.32	35.2	790	17.3	7.8	0.001	0.08	0.67	4.2	1.4	0.4	34.3	<0.01	0.04	2.0
ZZ58203		0.16	43.8	760	13.0	10.0	0.001	0.18	0.41	3.9	0.6	0.4	106.0	<0.01	0.03	2.0
ZZ58204		0.17	40.7	740	16.4	11.5	0.001	0.09	0.46	4.5	0.8	0.5	33.7	<0.01	0.05	2.6
ZZ58205		0.17	44.4	650	14.5	9.5	0.001	0.09	0.52	4.1	1.0	0.4	44.8	<0.01	0.02	2.1
ZZ58206		0.14	31.5	700	10.6	8.0	0.001	0.14	0.45	2.7	0.6	0.4	42.0	<0.01	0.02	1.1
ZZ58207		0.16	34.0	710	13.3	7.5	0.004	0.11	0.70	3.3	1.0	0.4	45.0	<0.01	0.03	1.6
ZZ58208		0.16	31.7	650	14.9	9.4	0.001	0.07	0.68	3.9	0.5	0.4	40.3	<0.01	0.04	2.3
ZZ58209		0.21	35.1	690	13.1	9.8	<0.001	0.08	0.57	3.9	1.4	0.5	34.6	<0.01	0.05	2.4
ZZ58210		0.23	53.9	890	12.5	7.9	0.004	0.07	3.13	4.1	4.0	0.5	56.8	<0.01	0.08	2.1
ZZ58211		0.20	70.1	1160	7.2	4.3	0.008	0.16	2.86	1.4	6.0	0.3	125.5	<0.01	0.05	0.7
ZZ58212		0.17	82.9	1940	13.0	6.5	0.017	0.10	6.28	4.7	7.3	0.4	112.5	<0.01	0.09	2.0
ZZ58213		0.23	79.2	1780	15.5	8.0	0.007	0.06	3.70	5.8	4.0	0.5	73.1	<0.01	0.07	3.0
ZZ58214		0.54	32.5	630	18.8	9.3	0.002	0.07	0.86	3.9	2.1	0.5	54.9	<0.01	0.03	2.7
ZZ58215		0.40	45.2	660	23.8	11.0	0.001	0.05	0.72	5.6	1.7	0.6	27.5	<0.01	0.05	4.2
ZZ58216		0.33	53.0	740	20.9	11.6	0.003	0.11	0.65	5.7	2.0	0.6	26.3	<0.01	0.04	4.2
ZZ58217		0.32	36.1	640	16.3	9.1	0.001	0.07	0.46	4.5	1.4	0.6	33.4	<0.01	0.02	2.3
ZZ58218		0.41	37.2	1050	19.1	11.1	0.002	0.06	0.59	5.6	1.4	0.6	34.9	<0.01	0.05	3.1
ZZ58219		0.39	40.0	1150	16.0	9.7	0.001	0.06	0.42	5.3	1.2	0.6	47.8	<0.01	0.02	3.0
ZZ58220		0.37	31.7	870	17.0	9.3	0.002	0.11	0.77	4.2	1.3	0.5	74.9	<0.01	0.03	1.7
ZZ58221		0.28	31.5	330	27.7	13.5	<0.001	0.04	0.56	6.1	1.0	0.5	31.5	<0.01	0.02	4.0
ZZ58222		0.28	39.6	720	16.3	10.0	0.001	0.07	2.15	6.4	1.9	0.5	57.4	<0.01	0.05	3.1
ZZ58223		0.42	30.5	750	18.0	8.7	0.002	0.07	0.78	5.2	0.9	0.5	49.4	<0.01	0.03	2.8
ZZ58224		0.37	33.7	600	20.3	7.7	<0.001	0.06	0.77	5.1	1.5	0.5	49.6	<0.01	0.04	2.3
ZZ58225		0.24	31.3	620	20.8	6.6	<0.001	0.06	0.65	6.3	1.6	0.4	49.6	<0.01	0.03	3.1
ZZ58226		0.22	19.4	740	14.8	5.3	<0.001	0.11	0.28	2.9	1.1	0.4	84.8	<0.01	0.02	1.0
ZZ58227		0.30	23.0	570	16.3	8.5	0.001	0.07	0.34	4.8	1.8	0.5	43.5	<0.01	0.02	2.1
ZZ58228		0.31	23.6	700	14.2	6.5	<0.001	0.13	0.69	2.2	2.6	0.4	71.3	<0.01	0.01	0.8
ZZ58229		0.19	20.0	1850	27.1	5.8	<0.001	0.05	2.48	2.5	1.5	0.3	67.1	<0.01	0.06	1.3
ZZ58230		0.27	16.7	730	14.2	6.5	<0.001	0.11	0.53	2.8	1.0	0.4	60.3	<0.01	0.02	0.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58191		0.012	0.11	2.38	45	0.10	18.30	78	0.9
ZZ58192		0.010	0.16	3.29	46	0.12	16.20	129	1.1
ZZ58193		0.010	0.19	2.86	50	0.10	15.25	123	1.1
ZZ58194		0.005	0.26	2.68	65	0.10	37.3	142	1.2
ZZ58195		0.007	0.13	1.95	53	0.11	29.4	118	0.7
ZZ58196		0.009	0.06	3.48	25	0.09	37.5	77	0.7
ZZ58197		<0.005	0.18	5.03	32	0.05	28.1	117	1.5
ZZ58198		0.012	0.04	4.59	8	<0.05	3.01	70	1.4
ZZ58199		0.005	0.14	4.54	20	<0.05	16.30	63	2.0
ZZ58200		0.005	0.13	1.59	24	0.05	10.35	131	1.3
ZZ58201		<0.005	0.12	1.56	34	0.05	11.05	111	1.0
ZZ58202		0.005	0.13	0.90	39	0.12	12.05	145	1.6
ZZ58203		<0.005	0.11	0.70	29	<0.05	10.15	129	1.5
ZZ58204		<0.005	0.14	0.84	38	<0.05	8.95	114	1.1
ZZ58205		<0.005	0.11	0.73	33	<0.05	10.55	105	1.3
ZZ58206		<0.005	0.09	0.93	27	<0.05	7.14	99	1.3
ZZ58207		<0.005	0.11	0.86	36	<0.05	9.89	115	1.3
ZZ58208		<0.005	0.10	1.07	40	<0.05	6.95	112	1.2
ZZ58209		<0.005	0.11	1.00	32	<0.05	9.20	118	1.1
ZZ58210		<0.005	0.25	2.69	115	0.06	14.40	279	1.3
ZZ58211		<0.005	0.18	7.80	75	0.05	12.65	261	1.6
ZZ58212		<0.005	0.38	4.06	158	0.08	26.9	572	2.1
ZZ58213		<0.005	0.28	2.45	129	0.05	22.7	418	1.7
ZZ58214		0.009	0.17	2.24	31	0.10	9.69	121	2.5
ZZ58215		0.006	0.21	0.80	33	0.07	11.40	151	2.0
ZZ58216		0.005	0.16	0.88	36	0.09	12.65	146	2.1
ZZ58217		<0.005	0.12	1.08	38	0.09	11.35	108	1.4
ZZ58218		<0.005	0.14	1.16	46	<0.05	12.55	134	1.6
ZZ58219		0.005	0.14	0.58	56	<0.05	10.50	124	1.4
ZZ58220		0.005	0.20	1.21	41	0.05	10.25	122	1.5
ZZ58221		<0.005	0.14	1.03	18	<0.05	9.76	92	1.9
ZZ58222		<0.005	0.22	0.97	36	<0.05	12.15	184	2.6
ZZ58223		0.005	0.17	1.17	30	0.08	11.35	123	2.0
ZZ58224		<0.005	0.14	0.92	28	0.06	13.45	111	1.7
ZZ58225		<0.005	0.12	1.10	19	<0.05	11.00	116	1.9
ZZ58226		<0.005	0.07	2.73	12	<0.05	11.05	83	1.8
ZZ58227		<0.005	0.12	2.07	18	0.05	10.35	91	1.8
ZZ58228		<0.005	0.16	8.32	16	0.06	6.81	98	1.7
ZZ58229		<0.005	0.48	4.09	16	0.05	12.60	75	1.4
ZZ58230		<0.005	0.11	2.98	14	<0.05	9.56	75	1.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58231		0.18	0.001	0.03	0.74	32.0	<0.2	<10	100	0.98	0.25	0.16	0.08	19.60	9.5	14
ZZ58232		0.16	0.002	0.18	1.23	14.0	<0.2	<10	340	0.90	0.27	1.37	0.26	21.9	10.8	20
ZZ58233		0.12	0.006	0.13	0.66	9.1	<0.2	<10	280	0.33	0.17	2.94	0.22	8.90	8.1	11
ZZ58234		0.14	0.006	0.18	0.95	7.3	<0.2	<10	440	0.58	0.20	2.23	0.58	13.60	9.8	13
ZZ58235		0.18	0.001	0.02	1.42	10.6	<0.2	<10	180	0.66	0.32	0.10	0.21	22.5	9.4	22
ZZ58236		0.18	0.003	0.06	0.87	9.8	<0.2	<10	230	0.67	0.29	1.24	0.27	10.60	7.5	13
ZZ58237		0.16	0.005	0.14	0.86	11.5	<0.2	<10	210	0.92	0.28	1.21	0.27	18.05	9.7	15
ZZ58238		0.18	<0.001	0.03	0.78	16.0	<0.2	<10	150	0.64	0.28	0.15	0.11	13.15	8.4	13
ZZ58239		0.16	0.001	0.06	0.22	22.0	<0.2	<10	60	0.49	0.15	2.14	0.21	14.75	4.2	6
ZZ58240		0.14	0.047	0.17	0.81	32.9	<0.2	10	260	0.80	0.20	2.76	0.80	18.40	5.7	14
ZZ58241		0.12	0.004	0.08	1.22	40.9	<0.2	<10	260	0.80	0.25	2.21	6.37	20.3	9.7	16
ZZ58242		0.06	0.004	0.09	0.36	12.7	<0.2	20	320	0.28	0.07	5.15	1.07	5.80	3.8	4
ZZ58243		0.20	0.002	0.08	0.94	82.5	<0.2	<10	490	1.05	0.35	0.44	0.18	15.15	34.2	21
ZZ58244		0.18	0.004	0.02	1.34	19.3	<0.2	<10	330	0.94	0.36	0.12	0.18	22.1	10.5	22
ZZ58245		0.18	0.002	0.13	0.96	14.4	<0.2	<10	230	0.90	0.26	1.22	0.37	21.5	9.8	17
ZZ58246		0.18	0.001	0.11	0.70	22.5	<0.2	10	300	0.68	0.24	2.20	0.50	14.65	8.1	12
ZZ58247		0.14	0.007	0.11	0.84	19.3	<0.2	10	290	0.75	0.24	1.81	0.44	14.20	8.1	14
ZZ58248		0.14	<0.001	0.16	0.83	25.9	<0.2	10	410	0.64	0.22	2.14	0.53	13.95	10.4	14
ZZ58249		0.22	0.002	0.25	1.26	12.0	<0.2	<10	440	0.82	0.24	1.11	0.39	24.4	8.8	24
ZZ58250		0.12	0.014	0.24	0.88	5.1	<0.2	10	720	0.92	0.13	3.86	0.48	17.00	5.6	13
ZZ58251		0.18	0.001	0.01	1.00	11.7	<0.2	<10	140	0.39	0.24	0.10	0.13	13.35	7.2	19
ZZ58252		0.20	0.001	0.03	1.15	13.4	<0.2	<10	130	0.69	0.24	0.10	0.19	19.80	9.9	20
ZZ58253		0.28	0.003	0.23	0.92	12.3	<0.2	<10	290	1.08	0.35	0.50	0.49	13.75	16.2	19
ZZ58254		0.14	0.008	0.13	0.63	4.4	<0.2	20	560	0.55	0.12	4.24	0.96	3.96	11.2	8
ZZ58255		0.22	0.001	0.11	1.10	10.5	<0.2	<10	170	0.73	0.28	0.94	0.20	12.80	9.6	21
ZZ58256		0.18	0.001	0.12	1.28	12.1	<0.2	10	240	0.87	0.27	1.12	0.22	18.00	9.9	24
ZZ58257		0.18	0.003	0.16	1.28	12.5	<0.2	<10	390	0.86	0.25	1.37	0.37	15.30	8.6	22
ZZ58258		0.16	0.001	0.15	1.27	12.8	<0.2	<10	360	0.81	0.25	1.16	0.30	17.75	10.6	23
ZZ58259		0.14	0.002	0.10	1.12	9.3	<0.2	10	380	0.81	0.24	2.27	0.44	14.25	12.0	19
ZZ58260		0.16	0.005	0.12	1.32	12.4	<0.2	<10	450	0.86	0.26	1.11	0.29	16.35	10.5	23
ZZ58261		0.22	0.001	0.13	1.35	12.5	<0.2	<10	290	0.93	0.30	0.66	0.36	19.45	11.5	25
ZZ58262		0.18	0.002	0.30	1.36	39.5	<0.2	<10	420	0.93	0.28	0.77	0.99	17.65	13.3	25
ZZ58263		0.16	0.003	0.38	1.02	46.0	<0.2	<10	340	0.73	0.21	1.03	0.92	16.45	10.6	21
ZZ58264		0.20	0.008	0.17	1.80	13.3	<0.2	<10	340	0.85	0.26	1.19	0.28	18.15	15.0	27
ZZ58265		0.20	0.008	0.23	2.26	16.5	<0.2	<10	540	1.11	0.30	0.61	0.43	20.1	16.5	35
ZZ58266		0.24	0.007	0.09	1.85	21.5	<0.2	<10	200	1.02	0.30	0.40	0.32	23.7	22.1	30
ZZ58267		0.18	0.008	0.17	1.85	16.9	<0.2	<10	410	1.14	0.28	1.11	0.39	18.55	17.6	30
ZZ58268		0.16	0.007	0.13	1.40	14.2	<0.2	<10	290	0.71	0.23	1.61	0.68	15.35	14.9	24
ZZ58269		0.20	0.007	0.13	1.65	15.3	<0.2	<10	270	0.95	0.27	0.80	0.36	19.15	14.8	27
ZZ58270		0.12	0.007	0.12	1.14	12.1	<0.2	<10	200	0.55	0.22	1.18	0.40	13.60	10.2	20



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58231		1.11	11.9	2.21	2.18	<0.05	0.02	2.01	0.035	0.10	5.7	10.0	0.11	203	0.41	<0.01
ZZ58232		0.77	22.7	2.41	4.07	<0.05	0.05	0.42	0.031	0.08	9.8	15.6	0.34	585	0.77	0.01
ZZ58233		0.96	13.4	1.38	2.46	<0.05	0.04	0.20	0.021	0.05	3.8	6.7	0.31	400	0.57	0.01
ZZ58234		0.76	19.5	1.89	2.96	<0.05	0.05	0.29	0.024	0.06	6.2	8.3	0.25	1410	0.83	0.01
ZZ58235		1.21	11.9	2.93	5.25	<0.05	0.04	0.04	0.035	0.08	9.8	24.3	0.31	257	0.89	<0.01
ZZ58236		0.45	17.5	2.36	2.95	<0.05	0.03	0.09	0.025	0.07	4.6	8.4	0.15	183	0.64	<0.01
ZZ58237		1.25	25.5	2.68	2.85	<0.05	0.05	0.63	0.028	0.08	7.6	12.5	0.24	507	0.75	<0.01
ZZ58238		0.56	18.3	2.52	3.31	<0.05	0.03	0.33	0.031	0.08	5.4	12.9	0.16	168	0.72	<0.01
ZZ58239		0.84	8.2	1.42	0.76	<0.05	0.04	1.90	0.020	0.07	5.2	1.0	0.91	172	0.41	<0.01
ZZ58240		0.98	23.8	2.34	2.75	<0.05	0.04	1.87	0.029	0.06	9.1	9.6	0.78	575	2.09	0.01
ZZ58241		0.52	15.3	3.27	4.15	<0.05	0.03	2.18	0.030	0.07	8.5	10.7	0.71	2470	4.13	0.01
ZZ58242		0.60	24.1	0.73	1.09	<0.05	0.04	1.07	0.009	0.03	3.6	2.0	0.45	421	0.63	0.01
ZZ58243		0.25	109.0	3.43	2.85	<0.05	0.09	1.29	0.033	0.11	7.5	6.1	0.23	1230	6.04	<0.01
ZZ58244		1.22	19.6	3.17	4.64	<0.05	0.05	0.42	0.043	0.11	9.2	17.0	0.26	278	1.06	<0.01
ZZ58245		0.65	21.6	3.10	2.74	<0.05	0.05	0.27	0.033	0.09	7.6	15.1	0.47	552	1.21	0.01
ZZ58246		0.62	23.8	2.60	1.98	<0.05	0.04	0.99	0.026	0.10	6.5	8.1	0.50	534	1.52	0.01
ZZ58247		0.56	20.6	2.50	2.49	<0.05	0.04	0.68	0.028	0.10	6.6	10.3	0.31	449	1.34	0.01
ZZ58248		1.00	26.0	4.25	2.26	<0.05	0.04	0.97	0.021	0.08	6.8	8.8	0.32	854	1.67	0.01
ZZ58249		0.83	26.1	2.81	3.82	0.05	0.05	0.27	0.031	0.09	14.4	17.2	0.59	366	1.04	0.01
ZZ58250		0.42	42.3	1.90	1.78	0.05	0.04	0.41	0.017	0.04	10.6	4.6	0.24	481	0.64	0.01
ZZ58251		0.44	12.1	2.70	3.88	<0.05	0.04	0.06	0.022	0.07	6.0	15.8	0.24	200	1.57	<0.01
ZZ58252		0.57	27.8	2.90	3.72	<0.05	0.02	0.11	0.022	0.06	9.5	17.9	0.27	270	1.28	<0.01
ZZ58253		1.35	40.4	3.95	2.80	<0.05	0.05	0.45	0.043	0.15	6.0	15.3	0.22	345	1.86	0.01
ZZ58254		0.41	25.2	1.96	1.33	<0.05	0.05	0.23	0.012	0.07	2.0	3.0	0.43	3720	3.30	0.02
ZZ58255		0.82	22.4	3.33	3.49	<0.05	0.06	0.17	0.029	0.12	6.0	16.7	0.38	380	0.82	0.01
ZZ58256		0.79	26.4	2.94	3.89	<0.05	0.07	0.19	0.027	0.12	7.9	26.8	0.45	301	0.79	0.01
ZZ58257		0.65	28.7	2.87	3.77	<0.05	0.08	0.16	0.026	0.10	7.0	18.9	0.39	469	0.82	0.01
ZZ58258		0.80	27.8	2.93	3.74	<0.05	0.06	0.26	0.025	0.11	8.3	22.1	0.40	603	0.82	0.01
ZZ58259		0.68	35.1	2.45	3.48	<0.05	0.05	0.18	0.026	0.11	5.8	16.5	0.41	228	0.58	0.01
ZZ58260		0.62	23.2	3.04	3.93	<0.05	0.07	0.17	0.026	0.10	7.3	22.2	0.40	295	0.67	0.01
ZZ58261		0.78	31.0	2.89	4.21	<0.05	0.07	0.17	0.032	0.11	9.3	22.4	0.39	227	0.74	0.01
ZZ58262		0.93	41.8	2.21	3.87	0.05	0.05	0.30	0.034	0.12	7.6	21.2	0.38	149	1.65	0.01
ZZ58263		0.95	31.5	2.69	2.95	0.05	0.06	0.25	0.032	0.10	7.4	17.1	0.52	616	1.80	0.01
ZZ58264		1.40	41.4	3.64	5.20	<0.05	0.07	0.13	0.034	0.11	8.5	19.0	0.43	879	0.90	0.01
ZZ58265		2.07	64.0	4.79	6.18	0.06	0.07	0.15	0.048	0.13	10.3	27.1	0.60	675	1.01	0.01
ZZ58266		1.55	87.5	5.07	5.68	0.05	0.03	0.10	0.043	0.11	9.9	30.9	0.65	691	0.97	0.01
ZZ58267		1.37	82.9	4.37	5.14	<0.05	0.08	0.19	0.039	0.10	10.1	24.1	0.61	644	0.92	0.01
ZZ58268		0.77	56.3	3.54	3.91	<0.05	0.05	0.11	0.030	0.09	6.3	18.6	0.54	716	0.84	0.01
ZZ58269		1.17	49.5	4.04	4.71	0.05	0.08	0.13	0.034	0.09	8.7	23.0	0.55	585	0.98	0.01
ZZ58270		1.00	41.6	3.01	4.16	<0.05	0.04	0.09	0.028	0.06	6.0	13.8	0.37	365	0.99	0.01

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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58231		0.20	19.8	100	18.7	7.3	<0.001	0.01	0.36	5.1	1.3	0.5	10.7	<0.01	0.01	4.5
ZZ58232		0.63	22.2	490	15.5	8.9	<0.001	0.05	0.39	4.2	1.6	0.5	39.3	<0.01	0.03	1.8
ZZ58233		0.40	10.6	750	10.7	5.9	<0.001	0.13	0.20	1.7	0.9	0.3	69.9	<0.01	0.02	0.7
ZZ58234		0.48	16.3	1100	12.3	6.6	<0.001	0.15	0.38	2.0	1.2	0.4	63.7	<0.01	0.02	0.9
ZZ58235		0.88	19.0	170	18.5	15.3	<0.001	0.01	0.30	3.0	0.5	0.7	9.7	<0.01	0.04	3.4
ZZ58236		0.49	16.3	380	18.6	6.4	<0.001	0.05	0.22	2.6	0.4	0.5	59.8	<0.01	0.05	1.3
ZZ58237		0.40	23.8	640	20.7	11.4	<0.001	0.07	0.33	3.7	1.8	0.5	45.0	<0.01	0.02	1.6
ZZ58238		0.30	18.6	200	18.3	9.6	<0.001	0.01	0.22	3.1	0.6	0.5	9.0	<0.01	0.04	2.5
ZZ58239		0.10	13.5	410	63.3	2.8	<0.001	0.03	<0.05	3.1	0.4	0.3	16.9	<0.01	0.02	5.9
ZZ58240		0.44	18.5	790	44.9	8.7	<0.001	0.10	1.02	2.4	1.5	0.5	48.0	<0.01	0.02	1.0
ZZ58241		0.66	15.7	550	50.9	8.7	<0.001	0.06	1.56	2.8	0.6	0.7	28.5	<0.01	0.04	1.2
ZZ58242		0.21	15.4	900	11.4	2.9	<0.001	0.19	0.89	0.6	1.9	0.2	102.5	<0.01	0.01	0.4
ZZ58243		0.29	45.1	120	49.7	4.5	0.001	0.02	1.30	6.3	1.2	0.7	8.3	<0.01	0.04	4.2
ZZ58244		0.78	22.5	150	21.3	14.6	<0.001	0.01	0.39	4.6	0.6	0.7	10.7	<0.01	0.02	4.5
ZZ58245		0.29	25.7	310	23.5	7.6	<0.001	0.04	0.64	4.6	0.4	0.5	33.7	<0.01	0.04	3.2
ZZ58246		0.30	20.6	570	28.1	7.7	0.001	0.09	0.57	3.0	0.6	0.5	52.1	<0.01	0.02	1.0
ZZ58247		0.39	18.9	560	23.5	8.0	0.001	0.08	0.54	3.4	0.5	0.5	55.5	<0.01	0.03	1.2
ZZ58248		0.38	20.7	870	29.8	9.8	0.005	0.16	0.76	3.0	0.8	0.5	65.3	<0.01	0.03	1.0
ZZ58249		0.68	29.1	720	16.1	10.0	0.001	0.03	0.70	5.3	0.7	0.6	35.2	<0.01	0.01	2.9
ZZ58250		0.25	17.5	1340	13.3	4.0	<0.001	0.15	0.72	1.8	1.6	0.3	119.5	<0.01	0.01	0.4
ZZ58251		0.48	15.5	210	15.7	10.7	<0.001	0.01	0.48	2.0	0.3	0.6	8.1	<0.01	0.02	2.3
ZZ58252		0.46	24.3	370	17.4	7.4	<0.001	0.01	0.68	3.1	0.3	0.5	9.7	<0.01	0.02	3.5
ZZ58253		0.29	47.3	540	22.9	13.9	0.007	0.14	0.53	6.0	1.8	0.6	34.5	<0.01	0.03	4.0
ZZ58254		0.17	35.2	1190	5.3	4.9	0.031	0.41	0.69	0.7	3.5	0.3	117.5	<0.01	0.03	0.2
ZZ58255		0.48	26.0	410	16.7	12.4	0.003	0.07	0.48	4.3	0.5	0.5	33.8	<0.01	0.02	3.0
ZZ58256		0.53	24.6	630	19.6	9.2	0.001	0.07	0.57	4.0	0.4	0.5	37.2	<0.01	0.03	2.6
ZZ58257		0.49	25.1	770	16.3	8.9	0.001	0.10	0.58	3.2	0.7	0.5	41.7	<0.01	0.04	1.6
ZZ58258		0.52	25.8	550	17.9	11.0	<0.001	0.05	0.56	4.0	0.6	0.6	40.2	<0.01	0.03	2.2
ZZ58259		0.53	29.2	650	17.3	11.0	<0.001	0.16	0.57	2.8	0.6	0.5	76.2	<0.01	0.01	1.1
ZZ58260		0.56	23.9	500	17.6	8.8	0.002	0.10	0.45	3.9	0.4	0.6	42.2	<0.01	0.01	2.7
ZZ58261		0.59	28.0	480	23.0	10.0	0.001	0.05	0.51	4.9	0.5	0.6	27.3	<0.01	0.04	4.0
ZZ58262		0.46	37.8	660	23.6	10.4	0.002	0.12	0.98	5.0	1.8	0.5	36.3	<0.01	0.04	4.0
ZZ58263		0.28	38.4	940	20.5	8.1	0.003	0.08	0.96	4.3	1.0	0.5	44.5	<0.01	0.06	2.7
ZZ58264		0.48	22.4	1400	23.7	11.6	<0.001	0.11	0.51	4.7	0.7	0.6	45.4	<0.01	0.07	1.2
ZZ58265		0.40	33.2	970	29.1	14.1	<0.001	0.06	0.56	8.6	0.5	0.7	25.8	<0.01	0.09	1.9
ZZ58266		0.21	38.1	630	25.2	9.1	0.001	0.02	0.59	8.1	0.5	0.6	21.4	<0.01	0.12	2.9
ZZ58267		0.36	35.9	970	25.3	10.6	<0.001	0.09	0.65	7.6	1.1	0.5	41.5	<0.01	0.09	1.5
ZZ58268		0.37	26.7	860	17.1	6.9	0.001	0.11	0.53	4.3	0.6	0.5	48.8	<0.01	0.08	1.0
ZZ58269		0.40	28.7	920	24.6	11.0	0.002	0.09	0.53	5.4	0.9	0.5	30.7	<0.01	0.08	1.3
ZZ58270		0.47	20.3	960	15.8	8.1	0.001	0.11	0.51	3.0	0.6	0.5	38.1	<0.01	0.07	0.7

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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58231		<0.005	0.18	0.45	14	<0.05	6.86	54	1.1
ZZ58232		0.009	0.11	3.05	31	0.11	9.53	72	1.4
ZZ58233		0.006	0.06	0.87	20	0.12	3.92	27	1.1
ZZ58234		0.008	0.09	2.38	23	0.09	6.98	42	1.4
ZZ58235		0.012	0.13	0.59	40	0.13	3.35	72	1.6
ZZ58236		0.006	0.06	0.91	25	0.07	3.81	52	0.8
ZZ58237		0.006	0.16	2.89	22	0.11	9.58	98	1.2
ZZ58238		<0.005	0.11	0.58	20	0.05	3.52	62	1.0
ZZ58239		<0.005	0.11	0.50	5	<0.05	4.72	158	1.5
ZZ58240		0.007	0.84	2.46	20	0.07	10.80	164	1.2
ZZ58241		0.016	0.22	1.21	33	0.14	7.87	1910	1.0
ZZ58242		0.005	0.31	2.99	6	<0.05	4.59	923	1.2
ZZ58243		<0.005	0.30	2.57	39	0.07	14.10	123	3.7
ZZ58244		0.010	0.20	0.66	35	0.11	4.93	98	2.0
ZZ58245		<0.005	0.15	1.04	36	0.07	8.67	111	1.5
ZZ58246		<0.005	0.22	2.07	21	0.07	8.92	238	1.0
ZZ58247		<0.005	0.20	2.14	25	0.12	8.03	203	1.2
ZZ58248		0.006	0.30	2.41	24	0.09	9.63	244	1.3
ZZ58249		0.018	0.15	1.06	40	0.16	14.35	124	1.3
ZZ58250		0.006	0.06	5.31	24	0.05	18.40	37	1.1
ZZ58251		0.010	0.08	0.33	38	0.11	2.15	57	1.4
ZZ58252		0.010	0.10	0.72	36	0.16	4.94	92	0.9
ZZ58253		<0.005	0.18	1.83	29	0.05	11.20	150	2.1
ZZ58254		<0.005	0.09	10.40	12	<0.05	4.08	144	1.1
ZZ58255		0.009	0.13	0.65	29	0.09	5.72	124	1.6
ZZ58256		0.011	0.11	0.82	35	0.12	7.28	105	1.9
ZZ58257		0.007	0.10	1.73	33	0.08	7.24	112	1.7
ZZ58258		0.010	0.13	0.88	35	0.10	8.84	102	1.7
ZZ58259		0.007	0.11	1.70	26	0.06	6.99	97	1.6
ZZ58260		0.007	0.11	1.46	33	0.09	7.00	112	1.9
ZZ58261		0.009	0.12	1.06	35	0.12	9.06	115	2.3
ZZ58262		0.005	0.21	2.44	46	0.07	10.65	173	1.9
ZZ58263		0.005	0.22	1.04	49	0.09	11.95	223	1.7
ZZ58264		0.008	0.14	1.47	49	0.09	9.28	115	1.7
ZZ58265		0.006	0.17	1.32	60	0.10	13.20	189	1.6
ZZ58266		0.005	0.13	0.56	57	0.07	8.64	138	1.0
ZZ58267		0.007	0.14	2.47	50	0.08	14.35	146	2.0
ZZ58268		0.009	0.09	1.13	44	0.08	6.77	148	1.5
ZZ58269		0.010	0.13	1.90	46	0.10	10.15	149	1.7
ZZ58270		0.012	0.10	0.82	43	0.11	5.66	104	1.2



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58271		0.22	0.008	0.03	1.92	15.9	<0.2	<10	80	0.46	0.31	0.04	0.11	26.3	9.6	27
ZZ58272		0.22	0.008	0.03	1.13	10.0	<0.2	<10	70	0.25	0.26	0.05	0.11	30.0	5.0	16
ZZ58273		0.22	0.006	0.08	1.70	13.3	<0.2	<10	90	0.38	0.31	0.07	0.18	28.2	11.4	29
ZZ58274		0.16	0.032	0.39	0.57	3.0	<0.2	10	180	0.83	0.07	3.87	0.30	9.15	2.9	7
ZZ58275		0.22	0.006	0.06	1.28	12.0	<0.2	<10	160	0.58	0.26	0.09	0.27	28.5	11.0	20
ZZ58276		0.16	0.007	0.03	1.08	12.2	<0.2	<10	70	0.24	0.31	0.08	0.09	20.5	8.0	21
ZZ58277		0.18	0.008	0.21	1.78	14.5	<0.2	<10	210	1.01	0.26	1.43	0.17	20.1	14.3	26
ZZ58278		0.18	0.004	0.13	1.62	11.5	<0.2	<10	150	0.77	0.27	1.13	0.30	22.0	15.7	24
ZZ58279		0.22	0.007	0.17	1.72	12.4	<0.2	<10	130	0.89	0.30	0.98	0.19	26.2	18.4	27
ZZ58280		0.16	0.008	0.16	1.29	9.7	<0.2	<10	220	0.85	0.23	2.12	0.37	16.40	12.4	18
ZZ58281		0.16	0.005	0.14	1.61	15.0	<0.2	<10	210	0.98	0.29	0.78	0.41	21.0	13.8	26
ZZ58282		0.16	0.004	0.14	1.67	11.0	<0.2	<10	340	0.60	0.25	1.05	0.15	15.85	13.9	26
ZZ58283		0.18	0.008	0.18	1.39	10.4	<0.2	<10	330	0.62	0.22	1.59	0.39	17.55	11.6	24
ZZ58284		0.18	0.004	0.13	2.09	13.6	<0.2	<10	180	0.85	0.30	0.21	0.20	20.5	18.0	33
ZZ58285		0.14	0.009	0.18	1.34	9.1	<0.2	10	280	0.80	0.16	2.77	0.38	10.70	11.1	19
ZZ58286		0.22	0.007	0.16	2.05	15.3	<0.2	<10	280	1.15	0.31	0.34	0.37	28.4	19.1	31
ZZ58287		0.14	0.018	0.23	1.13	7.0	<0.2	10	420	0.64	0.16	2.85	0.35	12.20	9.0	19
ZZ58288		0.20	0.003	0.11	1.81	11.2	<0.2	<10	110	0.61	0.26	0.05	0.55	25.5	14.2	26
ZZ58289		0.20	0.005	0.20	1.66	9.9	<0.2	<10	320	0.74	0.24	0.86	0.18	26.6	13.4	29
ZZ58290		0.16	0.005	0.07	1.58	16.7	<0.2	<10	330	0.87	0.29	0.56	0.60	23.2	21.5	27
ZZ58291		0.24	0.006	0.16	1.49	14.7	<0.2	<10	240	0.78	0.24	0.84	0.50	20.3	14.5	27
ZZ58292		0.18	0.006	0.18	1.28	11.5	<0.2	10	320	0.70	0.21	2.10	0.52	13.05	11.3	20
ZZ58293		0.18	0.004	0.14	1.50	13.2	<0.2	<10	320	0.83	0.24	1.56	0.25	15.65	13.9	23
ZZ58294		0.22	0.008	0.10	1.26	12.8	<0.2	<10	280	0.71	0.21	1.76	0.49	14.40	17.0	22
ZZ58295		0.26	0.007	0.29	1.53	18.1	<0.2	<10	160	0.82	0.26	0.90	0.38	16.25	15.2	27
ZZ58296		0.22	0.003	0.08	1.83	19.5	<0.2	<10	220	1.11	0.30	0.19	0.32	24.4	17.1	27
ZZ58297		0.18	0.009	0.14	1.55	8.2	<0.2	10	240	0.75	0.24	1.37	0.55	15.05	13.1	24
ZZ58298		0.16	0.004	0.09	1.71	11.5	<0.2	<10	100	0.34	0.29	0.05	0.14	28.0	6.9	24
ZZ58299		0.24	0.004	0.07	2.72	18.1	<0.2	<10	130	1.20	0.31	0.06	0.23	27.7	23.7	34
ZZ58300		0.24	0.004	0.17	1.58	12.5	<0.2	10	170	0.95	0.27	1.21	0.45	20.8	14.4	26
ZZ58301		0.16	0.016	0.22	0.67	2.5	<0.2	30	120	0.56	0.10	4.47	0.54	7.84	4.1	9
ZZ58302		0.16	0.006	0.13	0.53	2.7	<0.2	30	120	0.36	0.08	4.70	0.51	6.06	4.0	6
ZZ58303		0.20	0.007	0.38	0.89	7.3	<0.2	10	150	0.97	0.14	3.56	0.73	12.85	8.6	13
ZZ58304		0.16	0.013	0.12	0.37	2.1	<0.2	20	160	0.19	0.06	3.64	0.45	3.81	3.4	5
ZZ58305		0.26	0.004	0.17	1.26	11.9	<0.2	<10	130	0.96	0.27	0.81	1.07	19.95	15.3	23
ZZ58306		0.20	0.006	0.17	1.39	21.3	<0.2	10	130	0.99	0.31	0.76	0.80	22.3	17.6	24
ZZ58307		0.20	0.007	0.14	1.28	18.6	<0.2	<10	140	0.83	0.27	0.78	0.99	19.15	14.7	22
ZZ58308		0.22	0.006	0.17	1.31	20.1	<0.2	<10	160	1.09	0.28	0.76	0.98	20.7	16.7	24
ZZ58309		0.16	0.004	0.18	1.41	24.4	<0.2	10	160	1.12	0.29	1.05	1.33	17.55	17.9	25
ZZ58310		0.16	0.005	0.12	1.10	45.6	<0.2	<10	190	0.87	0.26	0.50	0.40	17.40	15.1	20



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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58271		1.37	27.4	4.03	6.52	<0.05	0.09	0.04	0.029	0.05	12.7	31.3	0.33	256	1.43	<0.01
ZZ58272		1.38	15.1	2.80	6.77	<0.05	0.03	0.02	0.017	0.04	16.2	11.1	0.15	135	1.22	<0.01
ZZ58273		2.68	32.2	4.80	7.55	<0.05	0.02	0.03	0.036	0.07	14.2	26.8	0.32	465	1.24	<0.01
ZZ58274		1.68	66.5	0.77	1.19	0.06	0.03	0.06	0.009	0.03	6.5	2.3	0.51	145	0.57	0.01
ZZ58275		1.21	39.3	4.20	4.42	<0.05	<0.02	0.14	0.034	0.05	13.0	10.2	0.13	423	1.31	0.01
ZZ58276		1.59	25.8	3.10	6.61	<0.05	<0.02	0.04	0.024	0.07	10.3	9.9	0.22	607	1.02	0.01
ZZ58277		3.43	80.5	4.28	4.80	0.05	0.08	0.17	0.036	0.11	10.7	31.7	0.75	589	0.67	0.01
ZZ58278		0.98	60.2	3.63	4.70	0.06	0.07	0.11	0.031	0.08	10.8	35.7	0.71	887	0.56	0.01
ZZ58279		2.76	73.3	4.28	5.01	0.06	0.07	0.15	0.038	0.09	11.9	33.9	0.75	654	0.55	0.01
ZZ58280		1.53	67.6	2.85	3.92	0.06	0.04	0.10	0.025	0.06	12.2	18.8	0.45	744	0.77	0.01
ZZ58281		1.31	46.5	3.65	5.12	<0.05	0.07	0.11	0.038	0.09	10.3	24.4	0.53	487	1.03	0.01
ZZ58282		1.15	34.0	3.47	6.13	<0.05	0.06	0.12	0.039	0.07	7.2	19.3	0.54	621	1.12	0.01
ZZ58283		1.17	34.4	2.73	4.50	0.05	0.05	0.12	0.030	0.06	8.8	18.2	0.46	718	0.98	0.01
ZZ58284		3.53	51.2	4.82	7.80	0.05	0.04	0.04	0.053	0.09	8.9	34.8	0.68	568	0.84	0.01
ZZ58285		2.14	67.7	2.68	4.03	<0.05	0.04	0.15	0.030	0.09	6.0	16.2	0.55	459	0.57	0.01
ZZ58286		4.41	81.5	4.65	6.03	0.06	0.06	0.10	0.047	0.09	13.3	30.4	0.69	1100	0.83	0.01
ZZ58287		2.34	49.0	2.24	3.30	<0.05	0.03	0.17	0.021	0.07	7.0	13.8	0.52	570	0.57	0.02
ZZ58288		1.44	38.3	3.98	7.09	<0.05	0.02	0.04	0.040	0.06	9.1	8.3	0.17	1680	1.11	0.01
ZZ58289		1.14	39.6	2.93	5.58	<0.05	0.04	0.10	0.031	0.07	12.2	20.1	0.64	680	0.81	0.01
ZZ58290		1.49	51.7	4.20	6.06	<0.05	0.04	0.11	0.039	0.10	8.6	19.4	0.49	1260	1.10	0.01
ZZ58291		1.14	59.8	3.70	4.79	<0.05	0.05	0.13	0.032	0.09	9.8	21.8	0.59	557	0.93	0.01
ZZ58292		1.57	44.9	2.84	3.73	<0.05	0.04	0.15	0.028	0.09	6.6	17.6	0.78	580	0.72	0.01
ZZ58293		1.77	48.9	3.42	4.52	<0.05	0.06	0.12	0.029	0.11	7.7	22.5	0.68	573	0.84	0.01
ZZ58294		1.38	44.8	3.31	4.25	0.05	0.05	0.10	0.034	0.08	6.0	18.0	0.53	940	0.85	0.01
ZZ58295		1.42	71.5	4.30	4.83	0.05	0.06	0.13	0.039	0.08	7.5	27.4	0.74	531	0.99	0.01
ZZ58296		1.49	66.0	4.69	5.92	<0.05	0.06	0.07	0.040	0.11	11.8	27.5	0.46	578	0.95	0.01
ZZ58297		1.85	46.6	3.29	4.39	<0.05	0.09	0.19	0.035	0.11	7.0	31.6	0.73	498	0.58	0.01
ZZ58298		1.42	19.1	3.13	7.61	<0.05	0.03	0.03	0.031	0.05	13.8	19.9	0.28	177	1.26	0.01
ZZ58299		2.14	57.2	5.06	5.79	<0.05	0.09	0.09	0.051	0.07	11.1	40.7	0.54	468	1.11	0.01
ZZ58300		1.02	64.1	3.68	4.56	0.05	0.06	0.18	0.037	0.08	10.1	31.8	0.81	794	0.71	0.01
ZZ58301		1.61	91.3	1.23	1.91	0.05	0.06	0.25	0.015	0.05	5.8	9.1	0.86	352	0.48	0.02
ZZ58302		0.50	41.9	0.81	1.11	<0.05	0.04	0.11	0.009	0.03	3.6	5.1	0.81	560	0.60	0.02
ZZ58303		0.77	95.9	1.94	2.18	0.06	0.03	0.31	0.020	0.04	9.9	7.8	0.62	1050	0.75	0.01
ZZ58304		0.61	26.5	0.67	1.05	<0.05	0.02	0.13	0.007	0.04	2.3	3.5	0.57	564	0.59	0.02
ZZ58305		1.46	70.2	3.01	3.91	0.06	0.08	0.18	0.033	0.10	9.2	24.2	0.61	123	0.48	0.01
ZZ58306		1.82	65.2	4.27	4.48	0.06	0.08	0.19	0.040	0.12	10.2	25.1	0.66	367	0.85	0.01
ZZ58307		1.54	56.1	3.76	3.86	0.05	0.06	0.18	0.029	0.10	8.9	22.5	0.58	353	0.77	0.01
ZZ58308		1.44	63.8	4.03	4.07	<0.05	0.07	0.19	0.037	0.10	9.5	25.7	0.64	435	0.71	0.01
ZZ58309		1.73	65.8	4.29	4.19	<0.05	0.10	0.17	0.039	0.14	8.0	23.7	0.72	662	1.06	0.01
ZZ58310		1.39	41.1	3.50	3.31	0.06	0.07	0.11	0.023	0.07	7.8	35.5	0.61	452	1.15	0.01

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**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58271		1.10	20.2	290	15.2	9.2	<0.001	0.01	0.70	3.1	0.3	0.8	5.5	<0.01	0.03	3.7
ZZ58272		1.11	8.9	190	12.4	10.0	<0.001	0.01	0.45	2.0	0.2	0.9	7.0	<0.01	0.05	3.3
ZZ58273		1.08	17.4	400	13.9	12.4	<0.001	0.02	0.57	3.1	0.2	0.8	6.5	<0.01	0.06	2.8
ZZ58274		0.25	13.6	1010	3.6	3.0	0.001	0.25	0.53	1.4	3.2	0.2	104.5	<0.01	0.01	<0.2
ZZ58275		0.48	17.7	370	15.8	9.4	<0.001	0.03	0.47	4.3	0.4	0.6	8.2	0.01	0.04	2.4
ZZ58276		0.81	13.3	530	14.4	12.2	<0.001	0.03	0.51	2.4	0.2	0.7	7.8	<0.01	0.07	1.4
ZZ58277		0.25	35.5	830	15.3	10.3	<0.001	0.09	0.58	7.4	1.1	0.4	50.6	<0.01	0.07	1.5
ZZ58278		0.29	33.7	670	14.1	7.8	<0.001	0.07	0.54	5.6	0.7	0.4	49.1	<0.01	0.06	2.1
ZZ58279		0.23	33.5	640	15.9	8.4	<0.001	0.06	0.48	8.5	0.8	0.4	41.0	<0.01	0.08	2.4
ZZ58280		0.49	24.3	880	14.7	7.7	<0.001	0.10	0.59	4.2	0.7	0.4	103.0	<0.01	0.04	0.7
ZZ58281		0.46	27.4	1000	25.2	12.2	0.001	0.09	0.56	5.5	0.9	0.5	31.7	<0.01	0.07	1.4
ZZ58282		0.53	20.0	1170	15.7	9.0	<0.001	0.11	0.36	4.6	0.7	0.5	38.2	<0.01	0.04	1.2
ZZ58283		0.60	18.2	1400	14.3	12.1	0.001	0.13	0.42	3.7	1.4	0.4	44.8	<0.01	0.05	0.7
ZZ58284		0.47	25.9	480	16.6	12.9	<0.001	0.04	0.39	6.4	0.8	0.7	10.1	<0.01	0.08	2.5
ZZ58285		0.33	23.1	990	9.8	9.4	0.001	0.15	0.50	5.3	2.2	0.4	65.7	<0.01	0.07	0.5
ZZ58286		0.32	32.3	740	17.2	11.7	0.001	0.05	0.54	12.5	1.8	0.5	12.8	<0.01	0.08	2.0
ZZ58287		0.43	19.0	1180	9.2	11.0	0.001	0.17	0.47	4.1	2.2	0.3	60.5	<0.01	0.05	0.4
ZZ58288		0.65	13.8	480	14.7	10.7	<0.001	0.03	0.41	5.7	1.2	0.8	5.7	0.01	0.07	2.2
ZZ58289		0.77	27.4	800	12.5	9.3	0.001	0.07	0.48	6.3	1.2	0.5	27.4	<0.01	0.06	1.7
ZZ58290		0.60	28.0	760	22.4	10.4	<0.001	0.06	0.57	7.8	0.9	0.6	25.1	<0.01	0.06	2.2
ZZ58291		0.52	31.7	610	16.2	7.8	<0.001	0.07	0.62	9.0	1.3	0.5	32.1	<0.01	0.06	1.8
ZZ58292		0.42	21.9	1020	14.1	10.3	0.001	0.17	0.52	4.4	2.2	0.4	79.0	<0.01	0.02	0.7
ZZ58293		0.41	24.5	910	16.6	13.4	0.001	0.11	0.48	6.2	1.6	0.4	51.6	<0.01	<0.01	1.1
ZZ58294		0.46	21.9	840	16.2	10.1	<0.001	0.11	0.50	5.0	0.8	0.4	55.0	<0.01	0.05	1.0
ZZ58295		0.21	33.0	690	18.3	7.4	0.001	0.08	0.58	7.8	2.2	0.4	41.9	<0.01	0.09	1.5
ZZ58296		0.35	30.6	460	19.1	12.1	0.001	0.03	0.60	8.2	0.8	0.5	13.0	<0.01	0.05	3.1
ZZ58297		0.23	26.8	730	18.0	11.9	0.008	0.22	0.36	6.8	4.9	0.4	71.6	<0.01	0.03	1.5
ZZ58298		0.99	13.0	190	14.0	12.6	<0.001	0.02	0.42	3.1	0.8	0.8	7.3	<0.01	0.03	3.2
ZZ58299		0.61	44.7	380	20.9	12.9	<0.001	0.03	0.62	5.9	0.7	0.5	6.8	<0.01	0.07	4.3
ZZ58300		0.27	30.1	950	16.8	8.4	0.001	0.14	0.45	6.4	2.0	0.4	87.8	<0.01	0.03	1.1
ZZ58301		0.15	16.6	1250	6.0	7.5	0.005	0.44	0.73	1.9	6.4	0.2	214	<0.01	<0.01	0.3
ZZ58302		0.23	11.3	1480	4.5	3.6	0.001	0.29	0.49	0.6	4.9	<0.2	215	<0.01	0.01	0.2
ZZ58303		0.27	25.2	1780	11.9	4.7	0.001	0.22	0.64	3.1	4.1	0.2	168.0	0.01	0.02	0.2
ZZ58304		0.14	7.0	950	3.4	1.8	0.001	0.44	0.34	0.7	2.1	<0.2	169.5	<0.01	0.01	<0.2
ZZ58305		0.27	31.8	570	35.8	8.8	0.003	0.14	0.45	7.9	3.5	0.4	35.7	<0.01	0.06	3.0
ZZ58306		0.24	35.1	670	39.4	10.5	0.002	0.07	0.62	8.8	1.6	0.4	37.4	<0.01	0.07	2.8
ZZ58307		0.23	30.8	510	34.4	9.4	0.004	0.10	0.52	7.4	2.7	0.4	32.9	<0.01	0.06	2.5
ZZ58308		0.23	33.3	670	35.2	9.6	0.004	0.07	0.54	8.5	2.4	0.4	34.6	<0.01	0.07	2.7
ZZ58309		0.23	40.3	660	41.8	10.2	0.002	0.06	0.75	8.0	1.9	0.5	43.2	<0.01	0.04	2.7
ZZ58310		0.16	36.0	600	20.7	5.6	0.001	0.06	0.88	4.6	1.2	0.3	26.3	<0.01	0.03	3.4

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58271		0.019	0.14	0.48	66	0.21	2.51	58	2.8
ZZ58272		0.026	0.14	0.42	62	0.20	2.03	32	1.4
ZZ58273		0.019	0.13	0.38	73	0.19	2.35	78	0.8
ZZ58274		0.008	0.06	0.79	8	<0.05	17.20	24	1.2
ZZ58275		0.011	0.17	0.48	44	0.11	3.43	58	<0.5
ZZ58276		0.016	0.12	0.37	63	0.18	2.07	63	<0.5
ZZ58277		0.005	0.12	1.17	41	0.05	14.00	90	2.2
ZZ58278		0.007	0.08	1.01	35	0.09	9.22	87	2.3
ZZ58279		0.006	0.11	0.71	39	<0.05	11.25	99	2.0
ZZ58280		0.012	0.09	0.82	32	0.09	17.40	63	1.2
ZZ58281		0.011	0.12	1.22	47	0.22	10.05	142	1.5
ZZ58282		0.011	0.11	0.76	59	0.10	4.46	57	1.4
ZZ58283		0.016	0.13	1.17	44	0.17	8.30	109	1.0
ZZ58284		0.008	0.13	0.47	74	0.08	4.96	64	1.2
ZZ58285		0.006	0.09	0.85	38	0.06	10.40	87	1.4
ZZ58286		0.009	0.11	0.79	59	0.11	19.75	79	1.4
ZZ58287		0.009	0.11	0.81	36	0.06	13.30	74	1.1
ZZ58288		0.016	0.13	0.43	79	0.11	4.78	64	0.8
ZZ58289		0.020	0.11	0.89	53	0.21	10.30	79	1.3
ZZ58290		0.018	0.11	0.68	62	0.15	7.67	102	1.4
ZZ58291		0.014	0.10	1.00	49	0.15	11.55	113	1.3
ZZ58292		0.009	0.09	0.82	36	0.08	8.81	124	1.3
ZZ58293		0.008	0.09	0.67	43	0.10	8.07	108	1.7
ZZ58294		0.011	0.10	0.55	47	0.08	6.25	87	1.4
ZZ58295		0.007	0.10	1.70	52	0.05	9.30	119	1.6
ZZ58296		0.006	0.13	0.73	58	0.08	11.00	85	1.7
ZZ58297		0.005	0.09	1.25	38	0.06	8.51	139	2.3
ZZ58298		0.020	0.13	0.41	69	0.16	2.32	41	1.5
ZZ58299		0.010	0.14	0.54	52	0.20	5.20	74	2.9
ZZ58300		0.008	0.07	1.15	39	0.06	11.55	104	1.5
ZZ58301		<0.005	0.05	2.87	11	0.07	11.05	51	2.1
ZZ58302		0.007	0.04	2.36	8	<0.05	5.18	42	1.2
ZZ58303		0.008	0.05	4.53	18	0.06	25.9	40	1.0
ZZ58304		0.006	0.04	1.51	9	<0.05	3.53	47	1.0
ZZ58305		0.006	0.12	0.67	38	<0.05	10.95	214	2.5
ZZ58306		0.006	0.13	0.67	41	<0.05	11.35	248	2.2
ZZ58307		0.006	0.11	0.75	37	0.05	9.88	209	2.0
ZZ58308		0.005	0.10	0.53	39	<0.05	11.15	231	2.3
ZZ58309		0.005	0.13	0.81	41	<0.05	9.73	344	2.7
ZZ58310		<0.005	0.11	0.78	27	<0.05	8.91	122	2.4



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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ58311		0.22	0.008	0.09	2.29	20.1	<0.2	10	200	1.14	0.31	1.12	0.35	11.35	24.5	37
ZZ58312		0.20	0.004	0.12	1.12	15.5	<0.2	<10	300	1.34	0.33	0.91	0.34	15.45	11.7	23
ZZ58313		0.22	0.003	0.07	0.39	16.6	<0.2	<10	80	1.17	0.37	0.85	0.26	12.35	16.3	19
ZZ58314		0.18	0.007	0.23	0.79	22.7	<0.2	10	190	0.92	0.23	1.33	1.03	10.00	11.6	15
ZZ58315		0.24	0.003	0.02	0.68	16.6	<0.2	<10	100	0.31	0.30	0.10	0.27	24.2	6.4	12
ZZ58316		5.00	0.003	0.04	1.23	20.5	<0.2	<10	70	0.40	0.32	0.03	0.18	21.7	9.1	19
ZZ58317		0.26	0.003	0.06	0.50	65.1	<0.2	<10	50	0.84	0.40	0.03	0.20	6.00	15.3	12
ZZ58318		0.22	0.004	0.20	0.71	44.7	<0.2	<10	150	0.95	0.39	0.31	0.53	14.20	15.1	15
ZZ58319		0.22	0.004	0.18	1.17	29.0	<0.2	<10	190	0.90	0.30	0.54	0.79	15.75	12.0	21
ZZ58320		0.18	0.007	0.53	1.22	38.1	<0.2	10	240	0.99	0.29	1.14	0.89	14.05	11.0	18

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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ58311		2.27	124.0	5.91	7.80	<0.05	0.05	0.09	0.055	0.11	4.2	34.2	1.30	508	1.03	0.01
ZZ58312		0.56	37.4	3.27	3.71	<0.05	0.08	0.07	0.034	0.11	7.1	10.4	0.27	352	1.29	0.01
ZZ58313		0.56	40.8	3.63	1.67	<0.05	0.06	0.06	0.034	0.11	4.0	2.9	0.11	597	1.70	0.01
ZZ58314		1.36	39.1	3.10	2.51	<0.05	0.10	0.16	0.026	0.12	4.7	9.1	0.37	454	0.73	0.01
ZZ58315		1.07	21.1	2.07	5.00	<0.05	0.03	0.01	0.018	0.07	11.7	3.6	0.07	135	1.12	<0.01
ZZ58316		2.35	27.5	3.68	5.62	<0.05	0.02	0.03	0.026	0.08	10.3	14.4	0.25	585	0.93	0.01
ZZ58317		2.73	36.6	3.62	1.65	<0.05	<0.02	0.09	0.026	0.13	2.3	2.8	0.07	646	0.84	<0.01
ZZ58318		3.56	35.7	3.46	2.21	0.05	0.04	0.19	0.027	0.12	6.3	10.1	0.23	609	0.50	0.01
ZZ58319		2.80	32.2	3.56	3.36	<0.05	0.09	0.14	0.029	0.12	6.8	15.6	0.38	501	0.79	0.01
ZZ58320		5.17	32.1	2.89	3.56	0.05	0.09	0.29	0.031	0.15	6.6	10.3	0.30	672	0.60	0.01

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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ58311		0.12	47.0	630	21.2	8.9	<0.001	0.07	0.41	11.1	1.2	0.5	35.3	<0.01	0.17	1.8
ZZ58312		0.25	32.0	870	24.5	11.8	0.001	0.09	0.49	5.1	0.9	0.9	37.0	<0.01	0.02	2.1
ZZ58313		0.06	41.3	520	21.3	6.8	0.002	0.12	0.60	6.0	0.8	0.5	38.0	<0.01	0.06	4.4
ZZ58314		0.17	27.8	720	63.1	8.2	<0.001	0.11	0.74	4.4	1.5	0.3	47.1	<0.01	0.05	1.3
ZZ58315		0.79	13.8	160	15.8	10.2	0.001	0.02	0.62	2.4	0.3	0.6	9.5	<0.01	0.02	3.3
ZZ58316		0.40	18.5	360	31.4	10.9	<0.001	0.02	0.60	2.9	1.0	0.5	6.1	<0.01	0.05	2.6
ZZ58317		0.08	30.6	510	46.7	8.2	<0.001	0.08	1.33	3.4	0.4	0.3	18.0	<0.01	0.06	2.0
ZZ58318		0.15	31.7	610	52.1	8.0	<0.001	0.03	0.87	6.6	1.0	0.3	23.8	<0.01	0.05	4.2
ZZ58319		0.31	28.5	660	66.5	9.3	<0.001	0.05	0.78	5.4	0.9	0.4	23.9	<0.01	0.06	3.3
ZZ58320		0.31	23.1	1090	47.9	15.7	0.001	0.12	0.55	5.3	1.4	0.5	43.1	<0.01	0.05	1.5

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 Account: RCM

Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ58311		<0.005	0.10	0.45	77	<0.05	10.20	161	1.6
ZZ58312		<0.005	0.11	2.64	31	0.06	11.90	159	2.0
ZZ58313		<0.005	0.11	2.93	21	<0.05	10.05	118	2.0
ZZ58314		<0.005	0.12	1.62	30	0.07	9.87	303	2.4
ZZ58315		0.017	0.09	0.53	49	0.14	3.26	67	1.1
ZZ58316		0.008	0.13	0.36	45	0.10	2.78	93	0.8
ZZ58317		<0.005	0.17	0.48	17	<0.05	3.70	111	<0.5
ZZ58318		0.005	0.13	0.78	20	<0.05	12.85	188	1.6
ZZ58319		0.008	0.16	0.70	30	0.08	6.69	334	2.6
ZZ58320		0.005	0.25	1.32	29	0.07	17.15	213	2.2

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Project: ATAC- Regional (Area B)

**CERTIFICATE OF ANALYSIS WH12204569**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12209622**

Project: ATAC- Regional - Area B  
 P.O. No.: Silt 26  
 This report is for 1 Silt sample submitted to our lab in Whitehorse, YT, Canada on 5- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------


<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209622**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
DD027339		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.33	0.003	1.07	0.62	57.9	<0.2	10	1200	0.60	0.16	0.88	0.72	7.10	5.7	25

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209622**

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
DD027339		0.84	45.5	2.09	1.94	0.07	0.06	0.29	0.033	0.07	3.9	5.1	0.10	145	4.15	<0.01

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209622**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD027339		0.14	64.9	1100	12.6	6.4	0.010	0.07	1.14	5.4	6.2	0.4	117.5	0.01	0.08	1.5

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209622**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
DD027339		<0.005	0.11	3.02	51	0.07	21.2	246	1.8

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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209622**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12209623**

Project: ATAC- Regional - Area B  
 P.O. No.: Soil 37  
 This report is for 211 Soil samples submitted to our lab in Whitehorse, YT, Canada on 5- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

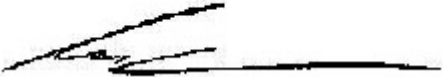
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Finalized Date: 25- SEP- 2012  
 Account: RCM

Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ32031		0.15	0.005	0.45	1.58	58.4	<0.2	<10	180	1.03	0.24	2.05	2.39	16.60	10.3	29
ZZ32032		0.14	0.004	0.15	1.49	45.5	<0.2	<10	280	0.73	0.23	0.82	1.01	13.25	9.4	23
ZZ32033		0.09	0.005	0.24	1.29	37.9	<0.2	<10	300	0.70	0.22	1.42	0.68	12.55	11.1	23
ZZ32034		0.11	0.005	0.39	1.29	41.1	<0.2	<10	1030	1.06	0.19	2.73	2.43	17.65	16.7	19
ZZ32035		0.15	0.005	0.30	1.16	35.4	<0.2	<10	660	0.69	0.20	1.81	0.69	12.35	10.3	21
ZZ32036		0.20	0.003	0.18	1.19	37.3	<0.2	<10	450	0.82	0.21	0.45	0.29	16.10	11.9	23
ZZ32037		0.16	0.004	0.17	1.18	25.0	<0.2	<10	450	0.77	0.21	0.51	0.34	14.95	10.4	23
ZZ32038		0.20	0.006	0.37	1.20	42.9	<0.2	<10	480	0.87	0.23	0.99	0.91	17.55	13.7	24
ZZ32039		0.15	0.012	0.32	1.11	40.5	<0.2	<10	360	0.77	0.22	1.82	0.94	16.25	12.8	23
ZZ32040		0.16	0.009	0.55	1.10	43.3	<0.2	<10	400	0.88	0.17	3.45	1.03	21.5	7.7	23
ZZ32041		0.17	0.005	0.31	0.93	32.0	<0.2	<10	300	0.78	0.16	4.13	0.99	17.80	10.0	19
ZZ32042		0.14	0.011	0.17	1.24	34.1	<0.2	<10	480	0.92	0.21	1.37	1.55	17.30	10.3	22
ZZ32043		0.09	0.009	0.57	0.68	21.7	<0.2	<10	600	0.59	0.12	4.51	0.77	9.08	5.4	13
ZZ32044		0.23	0.006	0.66	0.81	51.4	<0.2	<10	470	0.72	0.17	3.23	1.64	12.00	8.5	20
ZZ32045		0.16	0.005	0.63	0.75	36.0	<0.2	<10	570	0.61	0.18	3.30	0.94	12.30	9.7	18
ZZ32046		0.11	0.008	0.42	0.71	20.3	<0.2	<10	450	0.49	0.11	1.98	0.78	9.82	6.0	16
ZZ32047		0.08	0.008	0.44	0.72	21.7	<0.2	<10	440	0.45	0.13	2.01	0.89	10.45	6.4	16
ZZ32048		0.14	0.006	0.62	0.66	5.4	<0.2	<10	390	0.43	0.12	2.87	1.49	9.84	3.4	17
ZZ32049		0.19	0.002	0.14	0.85	36.3	<0.2	<10	180	0.60	0.18	0.18	0.80	16.35	8.5	18
ZZ32050		0.15	0.012	0.53	0.68	21.6	<0.2	<10	630	0.51	0.12	2.50	0.77	9.73	6.1	17
ZZ32051		0.14	0.005	0.41	1.04	36.6	<0.2	<10	690	0.76	0.17	1.70	0.56	14.60	7.7	21
ZZ32052		0.09	0.009	0.33	0.81	27.2	<0.2	<10	510	0.61	0.14	3.13	1.43	12.50	5.8	18
ZZ32053		0.13	0.003	0.34	0.79	21.4	<0.2	<10	500	0.58	0.15	2.67	1.93	12.80	7.1	18
ZZ32054		0.15	0.001	0.07	0.19	47.0	<0.2	<10	50	0.08	0.06	0.03	0.20	5.45	2.5	11
ZZ32055		0.11	0.005	0.14	0.89	21.3	<0.2	<10	340	0.47	0.17	1.87	2.14	12.00	6.1	21
ZZ32056		0.12	0.004	0.36	0.89	11.8	<0.2	<10	490	0.61	0.13	2.46	1.09	10.35	4.7	18
ZZ32057		0.17	0.002	0.18	1.68	15.4	<0.2	<10	220	0.64	0.24	0.25	0.67	21.7	8.9	27
ZZ32058		0.09	0.004	0.07	0.77	18.7	<0.2	<10	250	0.33	0.19	0.44	1.05	8.01	5.9	25
ZZ32059		0.10	0.004	0.35	1.11	8.4	<0.2	<10	520	0.67	0.19	1.50	0.29	7.63	6.3	18
ZZ32060		0.17	0.003	0.13	1.17	10.9	<0.2	<10	230	0.65	0.23	0.57	0.29	7.11	11.0	22
ZZ32061		0.10	0.005	0.29	1.01	16.7	<0.2	<10	410	0.69	0.20	1.87	0.54	7.55	8.8	23
ZZ32062		0.10	0.003	0.17	0.91	17.0	<0.2	<10	560	0.38	0.14	1.79	0.96	10.75	7.4	17
ZZ32063		0.12	0.011	0.46	0.70	12.5	<0.2	<10	510	0.53	0.12	2.25	2.27	10.95	9.2	17
ZZ32064		0.11	0.005	0.42	0.60	10.5	<0.2	<10	430	0.53	0.13	1.76	1.69	10.70	6.9	15
ZZ32065		0.12	0.004	0.36	0.71	9.0	<0.2	<10	450	0.51	0.14	2.17	1.88	9.87	7.4	16
ZZ32066		0.18	0.005	0.97	0.78	20.4	<0.2	<10	530	0.73	0.17	3.25	2.05	12.85	6.9	25
ZZ32067		0.15	0.004	1.14	0.68	21.7	<0.2	<10	540	0.90	0.16	4.19	3.70	14.45	6.8	24
ZZ32068		0.21	0.003	0.69	1.10	28.1	<0.2	<10	280	0.83	0.23	1.16	3.99	22.4	7.0	28
ZZ32069		0.09	0.010	0.47	1.39	11.6	<0.2	<10	520	0.86	0.25	1.61	4.02	27.8	10.9	22
ZZ32070		0.08	0.009	0.39	0.64	9.6	<0.2	10	630	0.58	0.13	3.91	2.63	11.10	5.9	13

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ32031		0.84	28.8	3.31	4.26	0.05	0.06	0.23	0.033	0.08	9.6	13.6	0.70	369	1.74	<0.01
ZZ32032		0.82	21.5	3.02	4.40	<0.05	0.04	0.06	0.032	0.07	7.2	12.6	0.34	311	1.69	<0.01
ZZ32033		0.48	23.6	2.95	3.57	<0.05	0.06	0.18	0.030	0.07	6.2	13.9	0.43	491	1.60	<0.01
ZZ32034		0.54	41.8	2.70	2.96	0.05	0.05	0.26	0.029	0.08	8.9	13.5	0.49	957	1.60	0.01
ZZ32035		0.53	28.3	2.86	3.14	<0.05	0.04	0.29	0.026	0.06	6.8	13.5	0.52	832	1.65	<0.01
ZZ32036		0.56	32.9	3.31	3.64	<0.05	0.05	0.20	0.028	0.05	8.1	15.8	0.40	439	2.39	<0.01
ZZ32037		0.41	28.0	3.13	3.47	<0.05	0.05	0.17	0.025	0.06	7.7	15.7	0.39	346	1.74	<0.01
ZZ32038		0.92	49.1	3.56	3.66	0.05	0.05	0.36	0.036	0.08	8.9	17.9	0.67	601	2.73	<0.01
ZZ32039		0.73	37.7	3.30	3.41	0.05	0.03	0.24	0.028	0.07	9.5	14.9	0.87	585	2.50	<0.01
ZZ32040		0.51	32.7	2.97	2.69	0.06	0.04	0.40	0.030	0.05	13.0	11.4	1.12	417	2.18	0.01
ZZ32041		0.46	29.2	3.06	2.58	0.05	0.06	0.30	0.025	0.06	9.3	13.0	1.31	616	2.26	<0.01
ZZ32042		0.43	26.5	3.21	3.76	<0.05	0.04	0.12	0.031	0.08	9.1	12.3	0.38	716	2.67	<0.01
ZZ32043		0.47	28.3	1.80	1.75	<0.05	0.04	0.25	0.019	0.05	5.6	7.5	0.75	229	1.66	0.01
ZZ32044		1.20	40.6	2.58	2.48	<0.05	0.05	0.48	0.026	0.09	7.0	10.5	1.49	297	6.50	<0.01
ZZ32045		1.40	38.2	2.83	2.43	0.05	0.05	0.30	0.027	0.07	6.4	13.0	1.31	533	3.34	<0.01
ZZ32046		0.48	21.9	1.75	1.98	<0.05	0.02	0.19	0.018	0.05	6.2	7.4	0.20	311	1.13	0.01
ZZ32047		0.48	23.2	1.73	2.14	<0.05	0.03	0.22	0.020	0.05	6.5	8.1	0.21	328	1.13	<0.01
ZZ32048		0.47	43.4	0.83	1.86	<0.05	0.03	0.24	0.016	0.04	6.9	6.3	0.18	161	0.32	<0.01
ZZ32049		0.47	22.7	2.47	2.96	<0.05	0.03	0.09	0.021	0.05	8.0	8.0	0.10	357	4.00	<0.01
ZZ32050		0.38	25.4	1.63	1.84	<0.05	0.02	0.13	0.018	0.04	6.9	6.1	0.17	370	0.93	0.01
ZZ32051		0.46	24.2	2.34	2.85	0.06	0.04	0.23	0.030	0.04	13.2	9.4	0.18	425	1.75	<0.01
ZZ32052		0.36	20.3	2.04	2.26	0.05	0.02	0.17	0.020	0.03	12.4	7.3	0.19	373	1.62	<0.01
ZZ32053		0.43	27.9	1.76	2.49	<0.05	0.03	0.19	0.022	0.05	10.0	7.8	0.19	420	1.12	<0.01
ZZ32054		0.76	9.7	1.37	1.45	<0.05	<0.02	0.11	0.007	0.02	3.1	0.6	0.01	40	4.80	<0.01
ZZ32055		0.50	21.9	2.03	2.69	<0.05	0.02	0.07	0.024	0.05	9.1	3.8	0.06	1050	2.59	0.01
ZZ32056		0.58	24.8	1.40	2.37	<0.05	0.04	0.22	0.019	0.05	7.0	8.5	0.20	245	0.65	0.01
ZZ32057		1.24	13.1	3.14	5.18	<0.05	0.03	0.05	0.031	0.05	10.0	17.9	0.27	221	2.47	<0.01
ZZ32058		0.19	15.1	3.42	3.06	<0.05	0.02	0.05	0.026	0.17	5.2	6.5	0.12	305	2.74	<0.01
ZZ32059		0.70	25.7	2.46	3.01	<0.05	0.04	0.11	0.029	0.08	4.8	11.6	0.22	147	2.05	0.01
ZZ32060		0.62	25.8	3.30	3.41	<0.05	0.03	0.11	0.036	0.09	3.0	19.3	0.34	223	2.67	0.01
ZZ32061		0.86	25.1	2.73	2.69	<0.05	0.03	0.15	0.033	0.06	4.3	10.5	0.24	519	5.70	<0.01
ZZ32062		0.48	13.9	1.85	2.74	<0.05	0.04	0.12	0.021	0.05	6.0	10.7	0.25	322	0.92	0.01
ZZ32063		0.41	30.8	2.09	2.10	0.05	0.03	0.20	0.022	0.06	7.1	7.9	0.21	639	3.05	<0.01
ZZ32064		0.34	26.1	1.75	1.93	0.05	0.02	0.19	0.023	0.06	6.8	6.8	0.16	516	2.85	<0.01
ZZ32065		0.32	25.6	1.86	2.13	<0.05	0.02	0.17	0.017	0.05	6.2	8.2	0.21	389	2.16	<0.01
ZZ32066		0.47	41.9	1.95	2.33	<0.05	0.04	0.28	0.026	0.07	9.4	6.9	0.67	188	4.40	<0.01
ZZ32067		0.54	51.0	1.82	2.30	0.07	0.07	0.36	0.026	0.07	10.6	7.2	0.67	143	3.00	0.01
ZZ32068		0.69	31.1	2.63	4.33	0.09	0.06	0.21	0.031	0.05	17.0	11.0	0.20	251	12.30	<0.01
ZZ32069		1.23	17.8	2.57	5.04	0.08	0.04	0.17	0.035	0.05	16.4	9.4	0.18	499	3.08	0.01
ZZ32070		0.37	24.2	1.58	1.94	0.06	0.04	0.25	0.019	0.04	7.5	6.6	0.28	450	2.05	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ32031	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ32032	0.59	36.1	400	21.2	9.1	0.001	0.04	0.83	4.1	1.3	0.5	16.9	<0.01	0.04	2.1	
ZZ32033	0.52	26.5	350	20.0	10.5	<0.001	0.03	0.52	3.1	1.0	0.5	15.5	<0.01	0.07	1.9	
ZZ32034	0.51	29.9	700	17.4	7.1	<0.001	0.05	0.75	3.1	1.3	0.4	22.4	<0.01	0.06	1.5	
ZZ32035	0.38	38.8	1000	16.0	5.4	0.001	0.09	1.28	2.7	2.1	0.3	38.4	<0.01	0.05	0.8	
ZZ32036	0.49	33.2	710	16.4	5.8	<0.001	0.05	0.87	3.2	1.6	0.3	28.4	<0.01	0.05	1.3	
ZZ32037	0.61	36.8	370	18.3	5.8	<0.001	0.02	0.88	4.3	1.1	0.4	16.2	<0.01	0.05	3.1	
ZZ32038	0.61	33.0	650	15.1	5.1	<0.001	0.02	0.69	3.9	0.9	0.4	18.9	<0.01	0.05	2.8	
ZZ32039	0.44	48.6	770	20.5	6.8	0.001	0.03	1.10	6.1	1.7	0.4	26.7	<0.01	0.06	3.9	
ZZ32040	0.47	43.4	850	20.8	6.3	<0.001	0.04	1.03	4.7	1.4	0.4	37.1	<0.01	0.07	2.2	
ZZ32041	0.41	30.6	840	20.2	4.6	0.001	0.06	0.95	5.7	2.0	0.4	53.1	<0.01	0.04	1.3	
ZZ32042	0.49	31.7	760	19.6	4.6	0.001	0.05	0.98	4.7	1.6	0.3	64.0	<0.01	0.05	2.1	
ZZ32043	0.64	28.7	400	22.6	6.6	0.001	0.04	0.86	4.5	1.7	0.5	32.7	<0.01	0.05	1.9	
ZZ32044	0.38	25.4	800	11.2	4.2	0.002	0.09	1.00	2.2	1.4	0.3	80.5	<0.01	0.04	0.6	
ZZ32045	0.36	47.5	750	15.4	6.3	0.003	0.04	2.40	3.9	2.5	0.3	45.5	<0.01	0.06	1.8	
ZZ32046	0.53	40.1	970	17.5	5.6	0.003	0.04	1.14	4.1	1.8	0.3	65.8	<0.01	0.07	2.7	
ZZ32047	0.36	26.7	720	9.9	5.3	0.001	0.08	0.70	1.9	1.7	0.3	36.3	<0.01	0.03	0.5	
ZZ32048	0.37	27.5	730	10.8	5.6	0.002	0.08	0.75	2.0	2.1	0.3	37.9	<0.01	0.04	0.6	
ZZ32049	0.40	35.5	830	8.5	5.2	0.009	0.17	0.77	1.7	5.0	0.3	54.0	<0.01	0.04	0.5	
ZZ32050	0.40	35.0	680	13.9	6.4	<0.001	0.02	1.37	2.9	1.6	0.5	16.6	<0.01	0.07	2.4	
ZZ32051	0.35	29.1	820	8.8	4.1	0.001	0.09	0.80	1.7	2.1	0.3	43.0	<0.01	0.06	0.5	
ZZ32052	0.38	33.3	530	14.1	5.0	<0.001	0.05	0.97	3.7	2.4	0.4	30.0	<0.01	0.07	1.2	
ZZ32053	0.39	25.3	810	10.0	4.2	0.001	0.08	0.94	1.8	2.6	0.3	40.5	<0.01	0.04	0.4	
ZZ32054	0.45	30.1	780	10.7	5.5	0.002	0.08	0.95	2.0	1.8	0.3	37.4	<0.01	0.05	0.5	
ZZ32055	0.18	13.3	200	3.5	3.5	<0.001	0.01	0.71	0.9	0.8	0.4	4.4	<0.01	0.05	0.7	
ZZ32056	0.36	21.6	470	11.2	4.4	<0.001	0.06	0.91	2.1	1.0	0.4	24.7	<0.01	0.09	0.6	
ZZ32057	0.39	28.1	830	10.1	7.1	0.010	0.13	0.71	2.1	2.8	0.3	34.1	<0.01	0.04	0.6	
ZZ32058	0.96	26.9	340	13.7	13.0	<0.001	0.02	0.63	2.7	0.9	0.6	13.8	<0.01	0.07	3.0	
ZZ32059	0.59	22.4	340	9.8	8.6	<0.001	0.02	0.75	2.4	0.8	0.4	11.3	<0.01	0.05	1.5	
ZZ32060	0.26	31.0	520	12.0	9.1	0.002	0.10	0.63	3.3	1.0	0.4	48.2	<0.01	0.05	1.9	
ZZ32061	0.19	37.2	600	14.5	7.3	0.001	0.04	0.53	4.0	0.9	0.4	38.3	<0.01	0.05	3.0	
ZZ32062	0.24	26.9	750	12.4	8.3	0.002	0.09	0.68	2.5	1.9	0.4	35.9	<0.01	0.05	0.8	
ZZ32063	0.51	21.2	590	11.7	7.4	0.002	0.09	0.61	2.5	1.1	0.3	42.4	<0.01	0.04	1.0	
ZZ32064	0.32	42.2	950	10.0	5.5	0.004	0.09	1.99	2.5	3.1	0.3	48.2	<0.01	0.06	0.8	
ZZ32065	0.31	37.8	950	9.5	5.2	0.002	0.07	1.72	2.2	2.3	0.3	40.2	<0.01	0.05	0.8	
ZZ32066	0.34	38.6	860	10.0	5.0	0.001	0.08	1.54	2.2	1.8	0.3	40.6	<0.01	0.05	0.7	
ZZ32067	0.35	58.8	1010	12.4	5.2	0.002	0.07	2.99	3.0	2.4	0.4	59.8	<0.01	0.07	1.3	
ZZ32068	0.34	65.4	1050	13.2	6.4	0.004	0.08	2.97	3.7	3.5	0.4	81.7	0.01	0.07	1.3	
ZZ32069	0.55	60.2	830	16.9	8.8	0.002	0.03	4.84	4.7	3.4	0.6	31.3	0.01	0.08	2.5	
ZZ32070	0.68	26.3	930	20.2	9.7	0.001	0.06	1.06	3.3	2.1	0.6	41.3	0.01	0.05	1.0	
ZZ32070	0.36	33.9	960	9.7	4.4	0.004	0.15	2.10	1.4	5.4	0.3	93.7	<0.01	0.05	0.3	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ32031		0.009	0.20	0.76	62	0.12	12.80	187	1.8
ZZ32032		0.007	0.16	1.25	57	0.12	5.54	139	1.1
ZZ32033		0.007	0.13	1.24	49	0.11	7.59	141	1.4
ZZ32034		0.005	0.15	2.93	42	0.08	15.10	136	1.5
ZZ32035		0.008	0.15	1.79	47	0.09	9.06	125	1.3
ZZ32036		0.011	0.13	0.85	49	0.08	9.43	141	1.7
ZZ32037		0.011	0.11	1.04	42	0.16	9.07	121	1.4
ZZ32038		0.009	0.27	0.96	53	0.07	15.30	185	2.1
ZZ32039		0.008	0.20	1.17	56	0.08	16.65	188	1.3
ZZ32040		<0.005	0.21	1.60	72	0.06	27.9	147	1.4
ZZ32041		0.005	0.16	1.40	55	0.05	17.95	155	1.5
ZZ32042		0.005	0.17	0.48	77	0.07	13.70	122	1.1
ZZ32043		0.005	0.17	1.40	34	<0.05	12.30	99	1.3
ZZ32044		0.006	0.34	1.55	89	0.11	12.25	260	1.8
ZZ32045		0.010	0.21	1.13	42	0.12	12.00	183	2.2
ZZ32046		0.007	0.13	1.46	45	0.06	10.75	117	0.8
ZZ32047		0.007	0.12	1.52	46	0.06	11.35	123	0.9
ZZ32048		0.007	0.12	3.38	23	0.15	14.75	94	1.4
ZZ32049		0.006	0.14	1.17	87	0.08	11.25	188	0.9
ZZ32050		0.007	0.09	2.96	40	0.07	15.85	105	0.9
ZZ32051		0.005	0.12	1.75	71	0.07	25.3	145	1.1
ZZ32052		0.008	0.07	1.85	60	0.08	24.2	121	0.6
ZZ32053		0.007	0.11	1.66	57	0.10	19.60	142	0.9
ZZ32054		0.006	0.06	0.34	55	0.09	1.76	74	<0.5
ZZ32055		0.007	0.10	1.64	90	0.09	13.45	127	0.6
ZZ32056		0.005	0.13	2.23	48	<0.05	12.20	137	1.2
ZZ32057		0.014	0.16	0.85	68	0.17	5.16	136	1.1
ZZ32058		0.010	0.09	0.58	83	0.10	3.65	225	0.8
ZZ32059		<0.005	0.13	1.49	42	<0.05	10.70	91	1.4
ZZ32060		<0.005	0.12	0.96	39	<0.05	7.88	130	1.4
ZZ32061		<0.005	0.16	2.71	47	<0.05	9.44	103	1.1
ZZ32062		0.009	0.13	1.38	44	0.13	7.81	168	1.3
ZZ32063		<0.005	0.19	3.04	101	<0.05	15.20	213	1.1
ZZ32064		<0.005	0.17	1.79	94	0.05	13.85	227	0.9
ZZ32065		<0.005	0.15	2.11	91	0.06	12.55	208	1.1
ZZ32066		0.005	0.21	2.80	134	0.10	22.9	285	1.5
ZZ32067		0.005	0.21	3.07	145	0.11	29.1	261	2.2
ZZ32068		0.008	0.46	4.28	319	0.19	31.0	453	1.2
ZZ32069		0.011	0.19	3.33	119	0.16	18.05	168	0.8
ZZ32070		0.006	0.13	5.33	79	0.09	12.60	171	1.2



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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36171		0.23	0.013	0.27	1.06	11.2	<0.2	<10	350	0.75	0.26	1.25	1.19	18.00	10.8	20
ZZ36172		0.20	0.006	0.60	1.84	13.5	<0.2	<10	440	1.79	0.29	0.86	1.36	53.3	9.0	24
ZZ36173		0.23	0.002	0.16	1.36	11.5	<0.2	<10	150	0.58	0.32	0.13	0.18	17.95	7.5	25
ZZ36174		0.24	0.002	0.10	1.67	14.4	<0.2	<10	240	1.07	0.33	0.30	0.20	37.2	13.2	29
ZZ36175		0.23	0.005	0.11	1.47	11.4	<0.2	<10	270	0.93	0.28	0.35	0.13	28.8	8.7	23
ZZ36176		0.20	0.003	0.21	1.17	13.4	<0.2	<10	290	1.06	0.28	0.66	0.34	28.3	10.3	20
ZZ36177		0.22	0.003	0.08	1.23	11.5	<0.2	<10	350	0.93	0.32	0.33	0.14	17.35	8.3	19
ZZ36178		0.19	0.004	0.18	0.44	11.2	<0.2	<10	80	0.65	0.28	1.70	0.49	25.6	10.0	8
ZZ36179		0.22	0.004	0.53	0.35	27.4	<0.2	<10	370	0.76	0.31	0.62	0.30	7.64	8.5	9
ZZ36180		0.22	0.006	1.20	0.37	22.2	<0.2	<10	850	0.70	0.19	0.74	1.89	9.65	7.1	16
ZZ36181		0.20	0.008	0.69	0.86	48.1	<0.2	<10	1830	0.73	0.26	0.50	1.57	10.40	7.0	18
ZZ36182		0.21	0.003	1.57	0.75	35.7	<0.2	<10	1970	0.89	0.21	0.98	1.71	15.30	5.2	23
ZZ36183		0.21	0.003	0.74	1.09	28.1	<0.2	<10	810	0.88	0.21	5.59	1.77	20.4	8.8	20
ZZ36184		0.22	0.003	0.25	1.42	26.7	<0.2	<10	240	0.93	0.33	0.13	0.70	18.65	12.3	29
ZZ36185		0.17	0.005	0.54	1.11	27.1	<0.2	<10	1050	1.11	0.26	3.24	0.99	20.9	11.4	21
ZZ36186		0.23	0.002	0.36	0.24	46	<0.2	<10	1270	0.34	0.07	16.85	1.53	8.12	3.6	3
ZZ36187		0.21	0.006	1.16	0.33	64.1	<0.2	<10	700	0.72	0.21	1.68	1.06	8.89	9.6	17
ZZ36188		0.17	0.005	1.50	0.67	18.4	<0.2	10	1110	0.94	0.22	1.28	0.81	8.98	4.2	21
ZZ36189		0.17	0.010	0.93	0.63	13.7	<0.2	10	920	0.80	0.21	2.29	1.87	9.26	6.5	20
ZZ36190		0.20	0.004	0.41	0.47	28.0	<0.2	10	530	0.87	0.20	7.57	1.39	12.20	8.0	9
ZZ36191		0.17	0.006	1.43	0.62	18.1	<0.2	<10	1360	0.81	0.20	0.85	0.93	11.55	5.8	23
ZZ36192		0.20	0.003	0.45	0.42	11.3	<0.2	10	660	1.08	0.36	0.45	0.39	8.64	12.9	13
ZZ36193		0.22	0.003	0.54	0.34	34.4	<0.2	<10	750	0.76	0.21	7.79	1.12	11.45	12.9	9
ZZ36194		0.20	0.003	0.48	1.53	36.6	<0.2	<10	1370	1.22	0.29	1.32	0.85	21.6	10.3	28
ZZ36195		0.22	0.002	0.16	1.50	21.4	<0.2	<10	390	0.56	0.30	0.09	0.26	11.30	8.3	27
ZZ36196		0.26	0.002	0.14	1.66	26.0	<0.2	<10	810	1.09	0.34	0.31	0.31	21.5	12.8	30
ZZ36197		0.22	0.004	0.36	1.22	24.2	<0.2	<10	460	0.96	0.27	3.75	0.84	17.20	9.1	22
ZZ36198		0.23	0.003	0.33	1.68	23.3	<0.2	<10	530	1.06	0.31	0.33	0.42	18.00	7.0	30
ZZ36199		0.19	0.006	1.10	1.20	66.5	<0.2	<10	1320	1.14	0.23	1.53	7.64	14.85	6.4	26
ZZ36200		0.18	0.006	1.58	0.42	19.8	<0.2	<10	1220	0.53	0.15	1.01	1.87	7.81	4.3	25
ZZ36201		0.17	0.003	0.41	0.42	11.3	<0.2	<10	280	0.55	0.25	1.06	0.58	17.30	7.4	9
ZZ36202		0.18	0.002	0.21	0.85	13.8	<0.2	<10	110	0.33	0.30	0.07	0.25	11.25	8.0	17
ZZ36203		0.20	0.002	0.11	1.29	15.0	<0.2	<10	150	0.86	0.31	0.08	0.30	31.7	15.3	21
ZZ36204		0.20	0.003	0.10	1.57	12.7	<0.2	<10	140	0.65	0.29	0.09	0.18	24.8	10.1	23
ZZ36205		0.22	0.002	0.29	0.51	15.7	<0.2	<10	130	0.95	0.28	0.25	0.30	39.3	16.9	14
ZZ36206		0.22	0.003	0.20	1.08	11.5	<0.2	<10	220	0.80	0.28	0.65	0.20	27.2	10.2	18
ZZ36207		0.17	0.006	0.15	1.05	10.1	<0.2	<10	200	0.77	0.27	0.68	0.27	22.2	10.6	18
ZZ36208		0.27	0.003	0.09	1.28	16.9	<0.2	<10	200	0.85	0.30	0.36	0.23	33.6	13.6	20
ZZ36209		0.25	0.004	0.37	0.96	14.0	<0.2	<10	400	0.78	0.26	1.02	0.60	20.4	10.0	18
ZZ36210		0.26	0.004	0.26	1.44	13.2	<0.2	<10	290	0.80	0.26	0.70	0.49	22.5	9.5	23



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ36171		0.67	24.2	2.97	3.22	0.07	0.11	0.11	0.032	0.07	7.3	21.0	0.32	662	1.30	0.01
ZZ36172		0.96	31.9	3.37	4.63	0.13	0.16	0.17	0.043	0.06	26.4	21.6	0.33	315	1.42	0.01
ZZ36173		1.34	14.5	2.89	4.93	0.05	0.03	0.03	0.033	0.06	8.0	16.8	0.27	353	1.28	<0.01
ZZ36174		1.19	24.4	3.60	5.18	0.09	0.07	0.04	0.039	0.06	15.4	20.1	0.44	622	1.47	0.01
ZZ36175		1.12	17.5	3.21	4.59	0.08	0.08	0.06	0.034	0.05	12.1	16.1	0.30	399	1.03	<0.01
ZZ36176		0.79	24.8	3.61	3.70	0.09	0.08	0.08	0.037	0.06	12.1	14.1	0.25	600	1.13	<0.01
ZZ36177		0.95	23.3	3.76	3.76	0.07	0.09	0.05	0.038	0.06	6.6	13.9	0.23	343	1.20	<0.01
ZZ36178		0.41	25.2	2.92	1.30	0.09	0.08	0.08	0.032	0.06	9.0	3.9	0.07	314	0.83	<0.01
ZZ36179		1.14	31.2	2.64	1.14	0.05	0.09	0.13	0.031	0.09	3.3	1.3	0.04	202	2.17	<0.01
ZZ36180		1.56	64.4	2.25	1.43	0.08	0.05	0.25	0.037	0.09	5.6	1.9	0.11	133	7.10	<0.01
ZZ36181		1.46	22.1	3.12	2.85	0.07	0.08	0.15	0.037	0.06	5.6	2.7	0.09	495	2.47	<0.01
ZZ36182		1.02	26.5	3.02	2.34	0.09	0.09	0.27	0.034	0.05	10.0	2.5	0.09	709	3.18	<0.01
ZZ36183		0.63	25.4	3.36	3.47	0.08	0.08	0.44	0.028	0.06	11.3	11.9	3.30	1340	1.75	0.01
ZZ36184		1.43	36.7	3.77	4.73	0.08	0.04	0.10	0.042	0.07	7.8	16.3	0.25	745	3.97	<0.01
ZZ36185		0.47	30.0	3.49	3.58	0.08	0.10	0.28	0.034	0.07	11.2	10.6	1.70	1210	3.05	0.01
ZZ36186		0.61	13.9	2.44	0.97	0.05	0.07	0.10	0.011	0.05	4.2	2.5	9.38	1380	1.20	0.01
ZZ36187		3.58	53.6	2.32	1.24	0.09	0.05	0.20	0.031	0.11	5.7	1.5	0.59	276	4.35	<0.01
ZZ36188		1.16	30.6	2.12	2.01	0.07	0.09	0.17	0.037	0.07	8.6	3.5	0.09	172	2.43	<0.01
ZZ36189		0.47	21.6	1.82	1.78	0.07	0.09	0.17	0.033	0.07	12.8	3.7	0.07	256	1.63	0.01
ZZ36190		0.44	23.0	2.58	1.66	0.06	0.08	0.19	0.027	0.07	7.3	3.6	3.93	789	1.83	0.01
ZZ36191		0.54	38.5	2.41	2.05	0.07	0.10	0.17	0.035	0.08	8.7	4.7	0.11	264	3.95	<0.01
ZZ36192		7.57	31.6	2.60	1.74	0.07	0.05	0.06	0.035	0.23	4.4	3.1	0.13	235	2.02	<0.01
ZZ36193		5.14	38.0	2.77	1.35	0.06	0.05	0.34	0.027	0.10	6.0	2.9	4.32	1020	2.16	0.01
ZZ36194		1.20	23.3	4.06	5.06	0.07	0.09	0.41	0.041	0.07	10.8	14.3	0.77	1250	3.03	<0.01
ZZ36195		1.42	21.9	3.00	5.42	0.05	0.05	0.06	0.037	0.06	5.4	8.2	0.14	489	3.36	<0.01
ZZ36196		1.43	29.1	3.63	5.52	0.06	0.07	0.08	0.045	0.06	8.8	15.7	0.33	822	3.51	0.01
ZZ36197		0.81	24.9	3.52	4.00	0.06	0.05	0.22	0.037	0.07	8.5	14.0	2.20	1140	2.94	0.01
ZZ36198		1.56	23.1	3.44	5.42	0.07	0.07	0.17	0.044	0.07	9.9	16.9	0.33	518	2.50	0.01
ZZ36199		1.00	35.8	3.10	3.30	0.07	0.10	1.01	0.035	0.06	9.8	9.4	0.39	463	1.85	0.01
ZZ36200		0.86	44.3	2.18	1.28	0.10	0.12	0.36	0.031	0.09	5.8	1.9	0.10	103	5.03	0.01
ZZ36201		0.31	25.4	2.94	1.06	0.09	0.10	0.10	0.029	0.08	7.1	2.5	0.06	206	1.58	0.01
ZZ36202		1.02	31.7	3.27	2.90	0.07	0.03	0.05	0.033	0.07	4.2	5.0	0.09	260	2.13	0.01
ZZ36203		1.38	37.3	4.15	2.71	0.10	0.06	0.05	0.046	0.08	6.2	15.5	0.14	453	2.05	0.01
ZZ36204		1.48	24.7	3.54	4.17	0.10	0.04	0.04	0.033	0.08	9.4	28.5	0.37	398	1.14	0.01
ZZ36205		0.61	36.4	5.06	1.33	0.21	0.09	0.09	0.037	0.06	17.5	3.2	0.08	831	0.89	0.01
ZZ36206		0.88	22.1	3.47	2.89	0.12	0.08	0.07	0.034	0.06	10.7	8.5	0.19	626	0.99	0.01
ZZ36207		0.72	19.3	3.16	2.83	0.09	0.09	0.07	0.032	0.07	8.6	9.2	0.20	577	0.90	0.01
ZZ36208		1.01	31.6	3.92	3.28	0.11	0.07	0.05	0.042	0.07	8.5	17.4	0.23	443	1.58	0.01
ZZ36209		0.65	29.7	3.31	2.52	0.10	0.09	0.13	0.034	0.07	9.3	9.8	0.21	402	1.54	0.01
ZZ36210		1.21	29.1	3.20	3.72	0.10	0.08	0.09	0.032	0.06	10.4	23.2	0.33	388	1.49	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ36171		0.43	27.3	1080	19.0	13.5	0.002	0.13	0.61	3.3	2.5	0.3	60.8	<0.01	0.06	1.7
ZZ36172		0.49	31.7	1770	20.1	10.1	0.001	0.17	0.64	4.0	3.5	0.4	45.2	0.01	0.06	1.8
ZZ36173		0.50	17.7	1080	16.8	13.7	<0.001	0.04	0.54	2.1	0.8	0.6	14.5	<0.01	0.06	0.8
ZZ36174		0.70	35.0	890	20.6	9.9	<0.001	0.03	0.83	4.1	1.1	0.5	23.9	0.01	0.05	1.9
ZZ36175		0.57	22.3	1080	17.7	9.8	<0.001	0.06	0.52	3.4	1.0	0.5	23.6	0.01	0.05	1.6
ZZ36176		0.37	29.9	950	23.9	10.8	<0.001	0.05	0.58	3.6	1.1	0.4	38.0	0.01	0.05	1.5
ZZ36177		0.28	25.8	780	23.7	10.2	<0.001	0.04	0.52	3.8	0.7	0.4	27.3	<0.01	0.05	2.0
ZZ36178		0.16	24.8	710	24.8	5.6	<0.001	0.08	0.43	3.4	1.1	0.3	71.2	0.01	0.06	1.6
ZZ36179		0.09	35.6	420	28.4	6.8	0.001	0.05	0.71	4.1	1.8	0.3	40.5	<0.01	0.06	1.5
ZZ36180		0.10	78.3	1310	13.5	8.1	0.005	0.07	2.49	5.0	4.7	0.4	68.2	0.01	0.08	2.2
ZZ36181		0.18	28.0	1160	280	8.2	<0.001	0.07	0.77	4.0	2.1	0.6	27.0	<0.01	0.09	1.1
ZZ36182		0.19	33.8	2320	101.5	7.7	0.001	0.13	1.37	2.8	3.7	0.4	49.5	0.01	0.09	0.6
ZZ36183		0.54	33.4	1170	86.8	6.3	<0.001	0.04	1.59	4.4	1.5	0.4	44.4	0.01	0.05	1.7
ZZ36184		0.40	41.6	940	40.3	13.2	<0.001	0.03	1.64	3.4	1.4	0.6	21.7	<0.01	0.07	1.7
ZZ36185		0.41	35.9	1120	55.0	7.4	0.001	0.06	1.49	4.2	1.6	0.5	33.5	0.01	0.05	1.8
ZZ36186		0.18	9.7	1110	292	3.3	<0.001	0.09	1.31	2.2	0.9	0.2	85.7	<0.01	0.02	1.1
ZZ36187		0.10	61.2	1410	18.8	8.7	0.009	0.18	1.27	4.9	5.2	0.4	70.6	0.01	0.10	2.8
ZZ36188		0.21	47.5	1330	14.7	9.3	0.001	0.09	0.96	4.0	3.2	0.5	47.5	0.01	0.12	1.0
ZZ36189		0.19	42.3	990	16.2	5.0	0.002	0.14	0.99	2.5	3.0	0.5	37.4	0.01	0.14	0.7
ZZ36190		0.21	29.9	1120	112.0	5.6	0.001	0.08	0.63	3.0	1.9	0.3	106.5	0.01	0.05	1.1
ZZ36191		0.26	56.8	1630	13.6	6.5	0.002	0.09	1.30	4.5	3.9	0.4	57.2	0.01	0.10	1.0
ZZ36192		0.24	42.5	610	11.3	20.7	0.001	0.05	0.64	5.5	2.5	0.5	55.7	<0.01	0.05	2.9
ZZ36193		0.21	39.9	760	51.4	9.0	<0.001	0.05	0.92	5.4	1.7	0.3	80.0	0.01	0.05	3.0
ZZ36194		0.43	31.2	840	97.3	11.7	<0.001	0.03	1.53	4.5	1.3	0.7	30.7	0.01	0.06	2.1
ZZ36195		0.39	25.1	1050	30.7	15.4	<0.001	0.05	1.10	2.6	0.9	0.8	19.1	<0.01	0.07	0.9
ZZ36196		0.43	36.7	940	43.7	12.9	<0.001	0.03	1.34	4.0	1.1	0.8	23.7	<0.01	0.07	2.2
ZZ36197		0.35	30.2	970	53.3	11.6	<0.001	0.04	1.27	3.6	1.1	0.6	36.7	<0.01	0.06	1.9
ZZ36198		0.43	28.5	1380	36.5	13.8	<0.001	0.05	1.12	3.6	1.1	0.7	21.2	<0.01	0.07	1.5
ZZ36199		0.39	34.2	2020	45.0	9.5	0.001	0.17	1.64	2.7	2.7	0.4	28.6	0.01	0.07	1.0
ZZ36200		0.10	62.8	1760	11.9	8.7	0.005	0.11	1.70	4.6	4.2	0.4	90.9	0.01	0.09	1.2
ZZ36201		0.13	28.9	720	21.5	5.7	<0.001	0.08	0.65	3.1	1.4	0.2	53.2	<0.01	0.06	2.0
ZZ36202		0.28	28.6	620	21.1	11.8	<0.001	0.03	0.95	2.5	0.7	0.4	13.1	<0.01	0.07	1.5
ZZ36203		0.26	41.7	490	32.8	11.6	<0.001	0.03	1.02	3.7	1.0	0.4	21.5	<0.01	0.08	3.6
ZZ36204		0.39	29.8	530	19.8	11.6	<0.001	0.03	0.61	3.2	0.7	0.4	14.2	<0.01	0.06	2.6
ZZ36205		0.13	45.0	430	36.0	5.9	<0.001	0.05	0.64	7.1	1.4	0.3	27.4	0.01	0.06	5.4
ZZ36206		0.36	25.9	890	21.5	9.4	<0.001	0.08	0.49	3.4	1.0	0.4	38.2	0.01	0.07	1.7
ZZ36207		0.32	21.6	1120	19.2	9.7	<0.001	0.09	0.42	2.8	0.9	0.4	41.3	0.01	0.06	1.2
ZZ36208		0.29	33.9	570	24.9	9.3	<0.001	0.03	0.62	4.0	0.9	0.4	29.4	<0.01	0.08	3.0
ZZ36209		0.30	29.9	940	21.4	8.1	0.001	0.10	0.60	3.3	1.8	0.3	56.5	0.01	0.07	1.1
ZZ36210		0.42	33.9	910	17.2	8.6	0.001	0.07	0.81	3.0	1.3	0.4	34.1	0.01	0.07	1.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36171		0.009	0.11	2.77	31	0.11	9.48	234	2.9
ZZ36172		0.008	0.17	10.95	39	0.17	42.3	182	3.5
ZZ36173		0.013	0.18	1.30	45	0.16	3.67	95	0.7
ZZ36174		0.018	0.18	2.04	49	0.21	14.40	108	1.5
ZZ36175		0.012	0.15	1.88	41	0.17	12.00	72	1.8
ZZ36176		0.007	0.14	1.91	35	0.11	15.80	108	2.0
ZZ36177		<0.005	0.16	1.25	35	0.06	8.06	100	2.2
ZZ36178		<0.005	0.10	1.64	15	0.05	15.90	114	2.1
ZZ36179		<0.005	0.14	1.12	20	0.06	9.31	135	2.7
ZZ36180		<0.005	0.28	3.39	62	0.07	24.9	361	1.1
ZZ36181		<0.005	0.31	1.50	41	0.08	13.50	231	1.8
ZZ36182		<0.005	0.26	3.44	59	0.17	32.7	287	2.0
ZZ36183		0.014	0.25	2.32	42	0.19	17.60	381	2.1
ZZ36184		0.007	0.33	1.47	75	0.14	8.06	243	0.9
ZZ36185		0.006	0.24	1.59	54	0.11	16.30	240	2.6
ZZ36186		<0.005	0.98	2.07	13	0.06	10.35	532	2.0
ZZ36187		<0.005	0.37	3.25	33	0.06	23.3	226	1.5
ZZ36188		<0.005	0.17	2.57	40	0.08	27.7	210	2.2
ZZ36189		<0.005	0.12	1.55	32	0.07	29.3	186	1.9
ZZ36190		<0.005	0.22	2.57	21	0.05	17.15	325	2.1
ZZ36191		0.006	0.15	2.63	51	0.10	31.7	222	2.4
ZZ36192		0.007	0.15	1.49	21	0.05	14.25	123	1.4
ZZ36193		0.005	0.41	1.41	23	0.07	14.90	294	1.6
ZZ36194		0.006	0.37	1.57	67	0.14	12.90	386	1.8
ZZ36195		0.005	0.34	1.20	75	0.12	4.44	182	1.1
ZZ36196		0.007	0.31	1.49	78	0.17	7.69	201	1.7
ZZ36197		0.006	0.23	2.10	56	0.13	10.00	292	1.1
ZZ36198		0.008	0.31	1.92	74	0.13	10.20	232	1.6
ZZ36199		0.007	0.68	11.30	43	0.11	18.70	1050	2.5
ZZ36200		<0.005	0.19	3.03	61	0.07	27.5	294	3.6
ZZ36201		<0.005	0.13	1.39	20	0.05	14.40	121	3.0
ZZ36202		0.005	0.20	0.80	43	0.07	3.93	132	0.9
ZZ36203		<0.005	0.24	1.14	42	0.06	7.17	139	1.9
ZZ36204		0.007	0.15	0.89	35	0.13	6.35	117	1.1
ZZ36205		<0.005	0.17	1.22	18	0.06	28.7	103	2.2
ZZ36206		0.008	0.15	1.57	30	0.10	14.25	88	1.9
ZZ36207		0.006	0.12	2.02	28	0.08	11.60	118	2.1
ZZ36208		<0.005	0.18	1.49	37	0.08	9.96	115	1.7
ZZ36209		0.006	0.15	3.57	31	0.09	15.70	169	2.1
ZZ36210		0.010	0.15	3.33	41	0.11	10.20	125	1.9

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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36211		0.23	0.005	0.47	0.92	19.3	<0.2	<10	160	0.83	0.28	0.35	1.28	23.9	17.6	22
ZZ36212		0.18	0.011	0.15	0.30	5.8	<0.2	10	370	0.13	0.06	3.08	1.57	3.37	5.8	7
ZZ36213		0.21	0.006	0.22	1.11	13.0	<0.2	<10	280	0.85	0.26	0.87	1.05	19.65	10.9	26
ZZ36214		0.21	0.005	0.56	0.86	22.9	<0.2	<10	380	0.80	0.24	0.33	1.42	20.7	11.1	23
ZZ36215		0.21	0.005	0.23	0.89	14.3	<0.2	<10	200	0.81	0.26	1.21	0.86	21.0	11.1	23
ZZ36216		0.21	0.002	0.19	0.88	18.0	<0.2	<10	400	0.45	0.21	0.53	0.74	10.05	6.6	19
ZZ36217		0.24	0.003	0.12	1.26	16.3	<0.2	<10	260	0.63	0.26	0.32	0.31	21.4	11.2	24
ZZ36218		0.21	0.003	0.19	1.37	16.1	<0.2	<10	370	0.65	0.29	0.56	0.25	21.0	13.5	28
ZZ36219		0.20	0.003	0.28	1.16	18.8	<0.2	<10	360	0.76	0.27	0.59	0.74	20.9	14.6	23
ZZ36220		0.20	0.005	0.38	1.41	6.4	<0.2	<10	430	0.83	0.23	0.97	0.73	23.8	7.3	29
ZZ36221		0.17	0.004	0.20	1.54	10.5	<0.2	<10	230	0.51	0.26	0.25	0.19	21.3	6.9	27
ZZ36051		0.20	0.002	0.06	1.48	12.8	<0.2	<10	140	0.74	0.32	0.11	0.12	30.9	9.7	22
ZZ36052		0.15	0.003	0.10	1.63	13.8	<0.2	<10	150	0.60	0.31	0.08	0.10	22.7	10.2	23
ZZ36053		0.18	0.002	0.07	1.51	10.6	<0.2	<10	140	0.42	0.27	0.09	0.09	19.50	5.9	23
ZZ36054		0.22	0.002	0.04	1.48	15.8	<0.2	<10	130	0.61	0.31	0.12	0.11	31.3	10.0	23
ZZ36055		0.17	0.003	0.08	0.96	10.3	<0.2	<10	110	0.38	0.28	0.06	0.12	19.90	8.0	15
ZZ36056		0.20	0.002	0.09	1.48	16.0	<0.2	<10	320	0.75	0.27	0.25	0.13	25.2	5.5	23
ZZ36057		0.20	0.002	0.07	1.50	27.5	<0.2	<10	320	1.56	0.29	0.08	0.20	58.2	12.5	28
ZZ36058		0.16	0.004	0.54	1.39	108.0	<0.2	<10	720	1.67	0.24	0.25	1.72	65.7	8.2	21
ZZ36059		0.18	0.003	0.09	1.79	17.6	<0.2	<10	300	0.51	0.30	0.33	0.27	17.50	5.6	23
ZZ36060		0.19	0.003	0.31	1.78	25.2	<0.2	<10	260	0.84	0.33	0.46	0.62	29.7	10.5	31
ZZ36061		0.18	0.003	0.20	1.75	34.3	<0.2	<10	380	1.49	0.29	0.30	0.51	36.7	14.4	23
ZZ36062		0.18	0.002	0.04	1.83	13.3	<0.2	<10	290	0.67	0.30	0.09	0.24	30.0	6.9	26
ZZ36063		0.17	0.005	1.12	0.95	18.8	<0.2	<10	740	0.76	0.21	0.74	0.51	18.10	6.6	22
ZZ36064		0.18	0.005	1.34	0.62	15.2	<0.2	<10	610	0.76	0.18	0.87	0.59	11.25	6.3	17
ZZ36065		0.23	0.005	0.24	0.97	10.1	<0.2	<10	530	1.04	0.33	0.77	0.23	28.5	7.9	10
ZZ36066		0.19	0.007	1.56	0.66	18.0	<0.2	<10	1360	0.87	0.19	0.81	1.08	11.75	6.4	19
ZZ36067		0.16	0.006	1.13	0.81	17.4	<0.2	<10	790	1.02	0.23	0.99	1.21	19.25	9.7	18
ZZ36068		0.16	0.009	2.40	0.74	27.0	<0.2	10	870	0.76	0.30	1.41	1.69	12.15	9.0	29
ZZ36069		0.14	0.007	1.18	0.43	17.0	<0.2	10	490	0.33	0.18	2.43	1.29	7.80	5.2	15
ZZ36070		0.15	0.004	0.41	0.77	18.6	<0.2	<10	870	0.63	0.24	2.27	3.20	17.45	9.0	19
ZZ36071		0.19	0.006	0.35	1.30	14.1	<0.2	<10	590	0.69	0.24	1.83	1.85	17.85	8.5	22
ZZ36072		0.17	0.007	1.21	1.07	16.7	<0.2	<10	930	0.85	0.22	1.31	1.28	14.60	5.6	25
ZZ36073		0.19	0.004	0.36	0.71	14.1	<0.2	<10	520	1.24	0.37	0.73	0.55	15.80	14.9	13
ZZ36074		0.25	0.005	0.34	0.97	21.4	<0.2	<10	800	0.79	0.23	4.55	2.21	19.60	11.3	17
ZZ36075		0.20	0.005	0.41	0.76	24.6	<0.2	<10	1300	0.67	0.15	8.64	1.98	16.45	6.2	11
ZZ36076		0.23	0.003	0.46	0.48	29.7	<0.2	<10	400	0.82	0.24	6.78	1.51	15.55	11.7	9
ZZ36077		0.23	0.005	0.51	0.73	31.8	<0.2	<10	460	0.89	0.29	5.16	1.37	19.30	12.5	13
ZZ36078		0.17	0.011	2.03	0.92	67.5	<0.2	<10	630	1.29	0.36	0.87	3.16	18.70	16.0	17
ZZ36079		0.25	0.005	0.78	0.78	31.4	<0.2	<10	570	0.96	0.29	4.25	1.61	18.80	12.9	14

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36211		1.01	56.1	3.71	2.81	0.12	0.07	0.19	0.038	0.09	10.9	15.7	0.33	666	2.62	0.01
ZZ36212		0.19	33.6	4.29	0.82	0.16	0.04	0.17	0.006	0.02	1.6	1.0	0.14	1440	3.68	0.02
ZZ36213		0.86	34.0	3.17	3.46	0.10	0.12	0.14	0.032	0.10	8.3	25.2	0.58	236	2.83	0.01
ZZ36214		1.00	49.8	3.19	2.57	0.11	0.05	0.13	0.034	0.10	9.7	14.6	0.24	394	4.16	0.01
ZZ36215		0.90	34.8	2.81	2.96	0.10	0.10	0.16	0.033	0.09	9.3	20.0	0.71	304	2.43	0.01
ZZ36216		0.72	20.9	2.49	3.32	0.06	0.06	0.04	0.026	0.06	4.6	12.7	0.19	349	3.18	0.01
ZZ36217		1.05	31.5	3.23	3.79	0.09	0.07	0.06	0.031	0.08	8.7	21.5	0.39	311	1.96	0.01
ZZ36218		1.23	26.3	3.46	4.57	0.10	0.07	0.09	0.037	0.07	9.0	18.1	0.43	809	2.17	0.01
ZZ36219		0.67	38.5	3.44	3.28	0.09	0.08	0.10	0.032	0.08	8.3	23.0	0.43	524	2.56	0.01
ZZ36220		1.03	22.3	2.55	3.96	0.10	0.14	0.19	0.037	0.10	11.0	28.1	0.50	98	1.33	0.01
ZZ36221		1.36	13.6	2.87	5.28	0.08	0.05	0.07	0.029	0.07	9.6	20.6	0.34	294	1.30	0.01
ZZ36051		1.40	18.8	3.46	4.59	0.08	0.04	0.03	0.040	0.06	9.2	12.7	0.19	582	1.10	0.01
ZZ36052		1.24	21.1	3.66	5.05	0.09	0.03	0.07	0.041	0.07	8.5	16.0	0.26	413	1.16	0.01
ZZ36053		1.49	13.2	2.55	5.23	0.06	<0.02	0.03	0.029	0.06	8.7	15.4	0.24	270	1.22	0.01
ZZ36054		1.27	20.5	3.53	4.94	0.08	0.02	0.04	0.038	0.06	9.1	13.3	0.21	431	1.27	0.01
ZZ36055		1.31	15.7	2.97	3.47	0.06	<0.02	0.04	0.030	0.06	6.1	6.6	0.12	453	1.12	0.01
ZZ36056		1.77	10.5	3.89	4.74	0.10	0.02	0.04	0.031	0.07	11.3	12.2	0.25	692	0.97	0.01
ZZ36057		3.09	17.0	6.86	4.69	0.18	0.06	0.22	0.053	0.09	14.9	14.6	0.30	2290	0.96	0.01
ZZ36058		1.59	19.0	12.90	3.73	0.39	0.19	1.68	0.041	0.07	35.8	6.1	0.12	8410	0.72	0.01
ZZ36059		1.78	6.9	3.30	6.14	0.07	0.03	0.03	0.030	0.06	8.2	15.8	0.33	653	1.07	0.01
ZZ36060		1.68	27.6	4.08	5.47	0.13	0.04	0.15	0.037	0.08	14.8	15.6	0.47	821	1.35	0.01
ZZ36061		1.60	20.3	6.09	3.86	0.18	0.13	0.32	0.044	0.06	20.2	19.6	0.28	1940	1.43	0.01
ZZ36062		1.73	13.8	3.58	5.93	0.09	0.02	0.04	0.038	0.06	11.2	18.0	0.27	492	1.70	0.01
ZZ36063		0.60	32.9	3.09	2.57	0.10	0.10	0.15	0.040	0.09	9.5	5.8	0.18	224	7.76	0.01
ZZ36064		0.43	32.4	2.42	1.78	0.10	0.08	0.14	0.035	0.09	6.0	4.1	0.11	152	5.32	0.01
ZZ36065		0.64	21.1	3.53	2.70	0.05	0.09	0.04	0.031	0.09	15.8	6.5	0.12	252	2.78	0.01
ZZ36066		0.66	43.5	2.73	1.80	0.06	0.07	0.15	0.033	0.07	7.8	3.4	0.08	146	6.00	0.01
ZZ36067		0.52	38.6	3.13	2.59	0.05	0.10	0.13	0.038	0.11	9.0	4.8	0.10	316	4.19	0.01
ZZ36068		0.80	67.6	2.90	2.14	0.09	0.09	0.26	0.047	0.10	15.7	4.1	0.13	329	5.61	0.01
ZZ36069		0.60	36.3	1.69	1.21	0.06	0.06	0.15	0.025	0.06	8.3	2.5	0.08	174	3.20	0.01
ZZ36070		1.05	22.9	2.21	2.14	0.07	0.05	0.14	0.028	0.07	20.3	5.1	0.14	476	1.55	0.01
ZZ36071		0.94	20.4	2.44	3.63	0.06	0.04	0.13	0.030	0.05	16.5	7.7	0.21	604	1.69	0.01
ZZ36072		1.00	38.3	2.45	3.00	0.05	0.10	0.19	0.037	0.07	11.7	7.0	0.16	167	2.52	0.01
ZZ36073		1.79	44.4	3.23	2.31	<0.05	0.10	0.14	0.039	0.13	9.0	4.3	0.17	539	1.91	<0.01
ZZ36074		0.70	26.0	3.16	2.96	<0.05	0.08	0.44	0.025	0.06	10.6	9.4	2.76	1080	2.25	0.01
ZZ36075		0.51	14.9	2.67	2.24	<0.05	0.07	0.54	0.020	0.05	10.2	7.3	4.98	1230	1.12	0.02
ZZ36076		1.70	30.0	2.84	1.57	0.05	0.07	0.49	0.021	0.11	9.0	3.5	3.99	988	1.17	0.01
ZZ36077		2.24	32.2	3.31	2.26	<0.05	0.08	0.53	0.028	0.10	10.7	5.7	2.96	1080	1.43	0.01
ZZ36078		2.63	41.0	3.82	2.99	0.05	0.15	2.02	0.034	0.15	11.2	6.2	0.22	1000	1.73	0.01
ZZ36079		2.67	36.4	3.25	2.36	0.05	0.09	0.60	0.028	0.11	10.8	5.7	2.38	990	1.49	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ36211	0.05	0.29	56.3	870	27.0	6.6	0.001	0.02	1.34	7.0	1.3	0.4	40.0	0.01	0.07	4.7
ZZ36212	0.19	18.3	1070	3.5	2.3	0.023	1.13	0.88	0.9	23.5	<0.2	96.4	<0.01	0.04	0.2	
ZZ36213	0.27	39.4	660	20.4	9.0	0.002	0.11	0.95	4.8	1.6	0.4	44.8	<0.01	0.04	2.8	
ZZ36214	0.22	53.3	1180	21.6	7.1	0.001	0.03	1.79	5.0	1.8	0.4	45.1	0.01	0.08	2.7	
ZZ36215	0.24	42.2	710	24.2	9.2	0.001	0.06	1.07	4.4	1.6	0.4	43.8	<0.01	0.04	2.7	
ZZ36216	0.33	23.8	670	15.7	9.3	<0.001	0.04	0.99	2.2	1.0	0.4	35.6	<0.01	0.07	1.0	
ZZ36217	0.43	33.5	590	72.1	8.7	<0.001	0.03	0.98	3.8	1.0	0.4	27.6	<0.01	0.07	2.1	
ZZ36218	0.46	29.1	1190	22.8	10.9	<0.001	0.07	0.88	3.3	1.9	0.5	38.6	<0.01	0.07	1.2	
ZZ36219	0.31	39.1	530	24.6	6.3	0.001	0.05	1.06	3.8	1.6	0.4	38.1	<0.01	0.07	1.8	
ZZ36220	0.42	23.0	1150	19.6	15.6	0.002	0.15	0.53	5.1	3.6	0.4	51.7	0.01	0.04	2.2	
ZZ36221	0.65	16.6	960	15.9	9.3	<0.001	0.06	0.50	3.0	1.0	0.6	19.2	<0.01	0.06	1.3	
ZZ36051	0.48	21.3	1140	20.4	16.0	<0.001	0.06	0.47	2.2	0.7	0.6	18.6	<0.01	0.08	0.9	
ZZ36052	0.62	21.3	920	21.2	13.3	<0.001	0.05	0.45	2.4	0.6	0.6	13.9	<0.01	0.08	1.0	
ZZ36053	0.43	14.8	980	12.9	14.6	<0.001	0.05	0.41	1.1	0.5	0.7	12.7	<0.01	0.05	0.3	
ZZ36054	0.47	22.1	870	21.4	14.8	<0.001	0.05	0.53	1.6	0.6	0.6	17.0	<0.01	0.07	0.4	
ZZ36055	0.21	17.2	1500	21.5	12.5	<0.001	0.07	0.41	0.8	0.6	0.5	10.5	<0.01	0.06	0.2	
ZZ36056	0.27	14.8	1560	20.5	16.5	<0.001	0.07	0.38	1.2	0.7	0.6	12.9	<0.01	0.06	0.3	
ZZ36057	0.50	24.1	1060	42.8	15.3	<0.001	0.04	0.51	4.8	1.1	0.6	22.2	0.01	0.05	3.0	
ZZ36058	0.27	45.3	1240	95.5	10.1	0.001	0.05	1.09	10.0	2.5	0.4	14.0	0.02	0.10	4.1	
ZZ36059	0.60	10.6	450	30.1	14.1	<0.001	0.02	0.30	3.0	0.3	0.8	12.0	<0.01	0.07	2.0	
ZZ36060	0.53	28.4	1050	41.0	12.9	<0.001	0.04	0.78	3.8	1.0	0.7	18.9	0.01	0.08	1.1	
ZZ36061	0.31	25.2	1410	724	9.6	<0.001	0.08	0.48	5.6	1.1	0.5	14.8	0.01	0.08	3.0	
ZZ36062	0.47	17.0	1040	22.3	12.1	<0.001	0.06	0.60	1.4	0.6	0.7	10.3	<0.01	0.06	0.3	
ZZ36063	0.25	46.1	1310	14.7	7.1	0.002	0.08	1.53	4.2	3.0	0.5	42.3	0.01	0.10	1.1	
ZZ36064	0.16	46.1	1510	11.3	8.1	0.002	0.09	1.28	4.0	3.8	0.4	50.7	0.01	0.09	0.9	
ZZ36065	0.22	21.9	960	15.9	10.3	0.002	0.06	0.22	3.8	1.9	0.6	30.7	<0.01	0.03	2.4	
ZZ36066	0.24	67.1	1410	12.3	7.5	0.003	0.09	1.41	4.8	4.7	0.4	49.6	<0.01	0.08	1.0	
ZZ36067	0.28	49.5	1550	28.7	7.8	0.002	0.08	1.21	4.3	2.9	0.5	59.6	<0.01	0.08	1.7	
ZZ36068	0.25	84.9	1740	18.5	7.5	0.003	0.12	1.58	4.9	4.8	0.5	62.5	<0.01	0.22	1.4	
ZZ36069	0.23	44.3	1550	10.6	4.4	0.002	0.17	0.99	1.4	3.1	0.3	47.1	<0.01	0.18	0.5	
ZZ36070	0.38	50.8	1210	18.0	7.6	0.001	0.09	1.05	2.6	2.4	0.4	27.4	<0.01	0.15	0.8	
ZZ36071	0.62	32.8	1590	18.3	8.0	<0.001	0.14	0.82	2.0	1.4	0.5	31.2	<0.01	0.11	0.5	
ZZ36072	0.45	52.7	1570	16.8	8.4	0.001	0.11	0.97	3.8	2.9	0.5	53.7	<0.01	0.11	1.0	
ZZ36073	0.30	38.1	690	34.5	9.6	0.001	0.04	0.48	4.5	1.4	0.5	30.7	<0.01	0.05	1.8	
ZZ36074	0.46	32.6	730	575	6.0	<0.001	0.04	1.01	3.4	1.3	0.4	36.2	<0.01	0.05	1.8	
ZZ36075	0.29	16.8	1180	800	4.6	<0.001	0.06	0.75	2.3	1.0	0.3	48.8	<0.01	0.04	0.9	
ZZ36076	0.24	28.1	810	107.5	7.6	0.001	0.06	0.62	3.9	1.3	0.4	44.2	<0.01	0.04	2.1	
ZZ36077	0.31	31.6	980	115.5	9.1	0.001	0.05	0.68	3.9	1.5	0.5	38.9	<0.01	0.07	1.8	
ZZ36078	0.38	37.4	1220	292	13.6	0.001	0.06	1.48	5.3	1.6	0.7	44.5	<0.01	0.07	2.6	
ZZ36079	0.36	34.3	950	136.0	10.6	0.001	0.05	0.80	4.1	1.6	0.5	36.2	<0.01	0.06	1.9	

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36211		0.009	0.26	1.68	46	0.09	17.40	212	1.9
ZZ36212		0.005	0.07	52.2	7	<0.05	2.73	16	1.3
ZZ36213		0.005	0.23	2.50	49	0.06	12.65	175	3.1
ZZ36214		0.005	0.25	2.77	60	0.09	18.30	236	0.9
ZZ36215		0.005	0.25	2.23	45	0.06	12.80	188	2.9
ZZ36216		0.006	0.19	1.22	58	0.09	4.91	124	1.3
ZZ36217		0.010	0.17	2.36	47	0.13	7.72	140	1.9
ZZ36218		0.013	0.19	6.87	49	0.12	8.13	127	1.5
ZZ36219		0.009	0.17	4.64	45	0.09	8.13	158	2.2
ZZ36220		0.011	0.13	3.53	36	0.06	13.65	165	3.4
ZZ36221		0.014	0.16	2.48	51	0.16	5.12	61	1.2
ZZ36051		0.009	0.20	1.30	42	0.14	5.82	79	0.8
ZZ36052		0.009	0.16	0.99	46	0.15	5.17	68	0.6
ZZ36053		0.010	0.20	0.79	48	0.22	2.95	51	<0.5
ZZ36054		0.012	0.18	1.06	46	0.17	4.73	69	<0.5
ZZ36055		0.005	0.16	1.11	32	0.11	3.23	57	<0.5
ZZ36056		0.009	0.22	1.44	43	0.14	7.51	92	<0.5
ZZ36057		0.008	0.50	1.77	34	0.12	12.25	105	1.1
ZZ36058		<0.005	1.07	4.95	23	0.14	53.2	885	3.7
ZZ36059		0.010	0.41	0.80	57	0.14	2.39	161	0.8
ZZ36060		0.015	0.33	1.71	55	0.17	14.70	222	0.6
ZZ36061		0.006	0.32	1.69	32	0.12	20.6	454	3.0
ZZ36062		0.013	0.23	1.07	60	0.18	6.03	97	<0.5
ZZ36063		<0.005	0.18	4.60	76	0.07	20.3	210	2.4
ZZ36064		<0.005	0.14	2.43	56	0.06	18.65	185	2.0
ZZ36065		<0.005	0.27	2.19	33	<0.05	11.95	115	1.8
ZZ36066		<0.005	0.19	2.67	52	0.06	32.6	220	2.0
ZZ36067		<0.005	0.17	1.88	46	0.07	16.75	239	2.4
ZZ36068		<0.005	0.26	2.61	51	0.07	44.2	328	2.7
ZZ36069		0.005	0.16	2.35	26	0.06	24.1	199	1.6
ZZ36070		0.006	0.15	1.13	31	0.08	39.7	321	1.5
ZZ36071		0.011	0.14	1.58	45	0.09	26.2	133	1.0
ZZ36072		0.006	0.18	2.52	49	0.06	28.5	232	2.5
ZZ36073		<0.005	0.16	1.40	26	0.08	16.25	128	2.2
ZZ36074		0.011	0.19	1.06	40	0.11	11.70	627	1.9
ZZ36075		0.006	0.24	1.32	25	0.09	12.60	474	1.7
ZZ36076		<0.005	0.28	1.15	18	0.06	13.25	407	1.5
ZZ36077		0.006	0.33	1.28	26	0.09	16.70	405	1.8
ZZ36078		0.005	0.63	2.24	30	0.09	19.80	784	3.5
ZZ36079		0.006	0.32	1.35	27	0.20	16.85	368	2.0



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36080		0.21	0.007	1.28	0.77	43.0	<0.2	10	770	0.99	0.27	4.40	2.89	16.65	11.3	16
ZZ36081		0.18	0.006	1.06	0.81	128.0	<0.2	<10	650	0.86	0.24	4.30	3.51	23.2	12.9	16
ZZ36082		0.16	0.005	1.12	0.75	359	<0.2	<10	1700	0.84	0.22	3.76	3.94	19.90	9.0	13
ZZ36083		0.20	0.003	0.52	0.35	156	<0.2	<10	730	0.51	0.11	10.90	2.32	14.85	6.2	6
ZZ36084		0.18	0.004	1.09	0.42	231	<0.2	<10	820	0.65	0.17	6.65	2.12	12.55	6.2	8
ZZ36085		0.26	0.005	1.14	0.31	71.3	<0.2	<10	870	0.60	0.16	4.93	1.77	9.64	6.9	12
ZZ36086		0.25	0.007	1.56	0.38	34.0	<0.2	<10	860	0.70	0.21	3.30	1.63	9.54	7.6	17
ZZ36087		0.22	0.004	1.22	0.30	21.6	<0.2	<10	980	0.60	0.17	2.14	1.13	7.85	5.6	14
ZZ36088		0.24	0.005	1.24	0.32	30.7	<0.2	<10	820	0.59	0.16	3.99	1.67	8.08	6.5	15
ZZ36089		0.20	0.005	0.19	1.04	15.5	<0.2	<10	200	1.06	0.32	0.87	0.24	31.2	11.9	19
ZZ36090		0.19	0.005	0.21	0.91	16.0	<0.2	<10	200	1.08	0.29	1.76	0.16	26.0	11.4	17
ZZ36091		0.12	0.005	0.27	1.03	12.8	<0.2	<10	230	0.96	0.25	2.05	0.19	20.3	8.8	15
ZZ36092		0.17	0.006	0.19	0.88	16.1	<0.2	<10	160	0.83	0.26	1.64	0.59	19.35	9.4	14
ZZ36093		0.16	0.012	0.19	0.89	16.6	<0.2	<10	160	0.91	0.27	1.20	0.23	18.15	9.9	15
ZZ36094		0.16	0.006	0.43	0.78	34.8	<0.2	10	180	0.79	0.19	2.39	0.47	15.90	8.2	13
ZZ36095		0.17	0.005	0.13	0.81	22.5	<0.2	<10	170	0.92	0.27	0.87	0.17	18.85	10.6	15
ZZ36096		0.18	0.006	0.19	0.65	19.1	<0.2	<10	150	0.98	0.21	1.84	0.52	35.9	11.5	18
ZZ36097		0.19	0.005	0.16	1.02	16.9	<0.2	<10	170	1.19	0.30	0.72	0.32	20.4	10.2	18
ZZ36098		0.15	0.017	0.36	0.98	21.8	<0.2	<10	270	0.93	0.21	1.84	0.34	24.0	10.5	17
ZZ36099		0.16	0.012	0.18	0.49	5.6	<0.2	<10	160	0.33	0.09	3.99	0.78	11.60	3.6	5
ZZ36100		0.14	0.013	1.11	0.58	32.8	<0.2	10	650	0.65	0.17	1.70	1.14	11.60	5.4	17
ZZ36101		0.18	0.008	0.35	0.90	17.2	<0.2	10	260	0.97	0.20	1.85	0.56	19.30	10.1	18
ZZ36102		0.18	0.005	0.15	0.97	13.5	<0.2	10	210	0.86	0.25	1.59	0.63	15.80	8.3	18
ZZ36103		0.19	0.005	0.20	0.90	16.6	<0.2	<10	170	1.10	0.27	0.85	0.35	20.1	9.3	18
ZZ36104		0.20	0.006	0.15	0.94	30.5	<0.2	<10	180	0.92	0.22	1.02	0.18	22.4	9.9	20
ZZ36105		0.21	0.007	0.26	1.15	40.1	<0.2	<10	270	0.97	0.25	0.93	0.42	30.1	12.4	24
ZZ36106		0.18	0.004	0.10	0.80	71.3	<0.2	<10	210	0.81	0.25	0.89	0.51	29.7	10.0	27
ZZ36107		0.16	0.006	0.19	0.82	56.2	<0.2	<10	160	1.04	0.23	1.57	0.60	31.3	11.0	20
ZZ36108		0.18	0.008	0.23	0.56	37.1	<0.2	10	110	0.97	0.22	1.43	0.54	25.3	10.4	13
ZZ36109		0.26	0.010	0.29	0.56	23.1	<0.2	<10	90	0.83	0.22	7.26	0.54	24.0	14.1	11
ZZ36110		0.22	0.005	1.11	0.29	25.6	<0.2	10	990	0.54	0.17	3.01	1.56	8.21	7.5	13
ZZ36111		0.17	0.004	0.82	1.17	31.2	<0.2	<10	560	0.63	0.26	0.34	0.86	17.55	9.0	25
ZZ36112		0.18	0.008	1.16	0.89	25.8	<0.2	<10	620	0.89	0.25	1.52	1.57	19.10	11.8	23
ZZ36113		0.21	0.006	1.09	0.49	27.1	<0.2	<10	630	0.90	0.28	1.06	1.15	11.35	6.6	13
ZZ36114		0.17	0.006	1.05	0.55	18.3	<0.2	10	800	0.76	0.22	1.71	0.73	8.80	4.3	14
ZZ36115		0.17	0.002	0.60	0.70	18.9	<0.2	<10	740	0.90	0.27	2.03	0.68	14.85	7.4	14
ZZ36116		0.18	0.005	1.33	0.37	23.8	<0.2	<10	800	0.70	0.17	2.44	2.15	7.89	6.6	17
ZZ36117		0.20	0.002	0.98	0.46	46.6	<0.2	<10	700	0.72	0.20	2.01	1.12	11.95	6.6	12
ZZ36118		0.17	0.003	0.73	0.43	39.2	<0.2	10	680	0.68	0.18	6.10	1.63	10.15	5.3	10
ZZ36119		0.20	0.004	0.59	1.22	20.8	<0.2	<10	320	0.68	0.22	0.24	0.52	18.75	10.9	26

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36080		1.36	29.9	3.11	2.31	0.06	0.12	1.00	0.027	0.11	10.8	5.3	2.16	846	1.52	0.01
ZZ36081		1.19	30.7	3.64	2.55	0.05	0.11	1.06	0.031	0.09	12.4	8.4	2.25	1190	1.15	0.01
ZZ36082		0.63	20.6	3.94	2.19	0.05	0.11	1.28	0.026	0.08	11.1	5.5	1.86	1550	1.50	0.01
ZZ36083		0.75	16.8	2.75	1.21	<0.05	0.06	0.68	0.019	0.05	8.5	2.4	6.34	1230	1.79	0.01
ZZ36084		0.93	24.2	2.87	1.36	<0.05	0.09	0.82	0.024	0.07	6.7	3.1	3.59	675	1.68	0.01
ZZ36085		1.49	44.9	2.27	1.05	0.06	0.05	0.39	0.026	0.09	5.8	1.8	2.49	394	3.98	0.01
ZZ36086		1.94	64.2	2.66	1.19	0.06	0.05	0.35	0.032	0.10	5.7	1.9	1.32	257	4.70	0.01
ZZ36087		1.51	46.3	2.04	1.05	0.05	0.05	0.21	0.028	0.09	4.8	1.6	0.79	180	4.13	0.01
ZZ36088		1.62	54.5	2.31	1.02	0.06	0.03	0.24	0.027	0.09	5.1	1.4	1.71	289	4.74	0.01
ZZ36089		0.72	26.6	3.44	3.17	0.06	0.08	0.09	0.038	0.09	11.8	9.6	0.19	469	0.83	0.01
ZZ36090		0.70	27.2	3.50	2.44	0.06	0.06	0.11	0.033	0.07	11.1	6.9	0.15	519	0.64	0.01
ZZ36091		0.79	23.6	2.66	2.82	<0.05	0.08	0.11	0.031	0.06	9.7	6.6	0.16	385	0.76	0.01
ZZ36092		0.50	24.2	2.71	2.49	<0.05	0.09	0.11	0.031	0.09	8.4	6.9	0.15	382	0.72	0.01
ZZ36093		0.64	23.2	2.82	2.70	0.05	0.09	0.12	0.033	0.08	8.2	9.2	0.20	377	0.58	0.01
ZZ36094		0.46	31.7	2.07	2.30	0.05	0.10	0.17	0.025	0.08	8.8	8.6	0.22	388	0.71	0.01
ZZ36095		0.53	22.0	2.75	2.61	<0.05	0.08	0.08	0.028	0.11	9.3	7.2	0.17	405	0.70	0.01
ZZ36096		1.52	27.6	2.69	2.34	0.06	0.07	0.09	0.033	0.09	16.9	8.2	0.40	412	0.65	0.01
ZZ36097		0.83	29.8	3.25	3.31	0.05	0.10	0.08	0.036	0.12	10.7	12.5	0.28	317	0.78	0.01
ZZ36098		0.61	26.0	2.73	3.03	0.05	0.10	0.13	0.028	0.08	10.8	10.6	0.40	454	0.91	0.01
ZZ36099		0.38	12.8	0.88	1.27	<0.05	0.04	0.09	0.011	0.03	5.4	2.0	0.09	300	0.65	0.01
ZZ36100		0.81	46.6	3.08	1.73	<0.05	0.10	0.22	0.028	0.08	6.0	5.7	0.21	72	1.63	0.01
ZZ36101		1.72	42.3	2.57	2.72	<0.05	0.09	0.17	0.026	0.11	9.5	13.3	0.46	272	1.03	0.01
ZZ36102		0.80	25.9	2.91	3.02	<0.05	0.06	0.10	0.029	0.11	7.8	12.1	0.31	327	0.70	0.01
ZZ36103		0.52	27.6	2.94	2.92	0.05	0.09	0.12	0.036	0.10	10.0	8.8	0.21	317	0.69	0.01
ZZ36104		0.58	23.4	2.76	3.05	<0.05	0.08	0.15	0.030	0.10	10.5	11.1	0.24	314	0.77	0.01
ZZ36105		0.67	30.9	3.14	3.78	0.05	0.09	0.15	0.035	0.08	13.6	16.0	0.33	568	0.94	0.01
ZZ36106		0.39	30.0	3.20	3.16	0.05	0.08	0.18	0.034	0.08	15.9	11.6	0.24	334	0.82	0.01
ZZ36107		0.46	29.7	2.98	2.57	0.05	0.07	0.21	0.033	0.08	14.9	8.6	0.29	505	0.75	0.01
ZZ36108		0.24	32.5	2.70	1.62	<0.05	0.07	0.16	0.031	0.09	12.2	6.9	0.25	353	1.05	0.01
ZZ36109		0.49	37.0	2.65	1.82	0.05	0.07	0.16	0.026	0.08	9.5	9.7	1.25	426	1.24	0.01
ZZ36110		1.19	45.0	2.18	0.99	0.05	0.07	0.24	0.026	0.10	5.2	1.7	1.15	379	3.75	0.02
ZZ36111		1.31	29.2	2.87	3.45	0.05	0.03	0.22	0.038	0.07	9.5	9.1	0.20	684	2.90	0.01
ZZ36112		0.91	61.0	3.60	2.61	0.05	0.04	0.29	0.039	0.09	9.3	13.9	0.76	646	4.64	0.01
ZZ36113		1.53	34.3	3.19	1.38	0.05	0.08	0.21	0.035	0.11	7.0	2.5	0.17	317	2.59	0.01
ZZ36114		0.89	41.1	2.36	1.56	<0.05	0.10	0.28	0.029	0.08	5.7	2.6	0.29	143	2.28	0.02
ZZ36115		1.03	31.1	3.63	1.93	0.05	0.09	0.16	0.029	0.08	7.2	5.6	0.74	583	1.70	0.02
ZZ36116		1.21	57.6	2.47	1.11	0.06	0.03	0.24	0.033	0.10	5.6	1.6	0.71	156	4.54	0.02
ZZ36117		1.19	29.2	3.09	1.57	0.05	0.09	0.46	0.026	0.09	8.0	2.8	0.53	855	2.33	0.02
ZZ36118		1.07	27.6	2.86	1.34	<0.05	0.07	0.36	0.018	0.07	6.6	2.8	3.17	891	1.90	0.02
ZZ36119		1.04	36.4	2.81	3.88	<0.05	0.02	0.19	0.028	0.07	8.9	12.9	0.30	374	4.26	0.01



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Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ36080		0.34	34.7	1340	177.5	10.1	0.001	0.08	0.88	4.1	1.6	0.5	45.8	<0.01	0.07	1.6
ZZ36081		0.35	29.1	1310	163.5	9.0	0.001	0.10	0.72	4.6	1.8	0.5	43.4	<0.01	0.07	1.8
ZZ36082		0.25	26.8	1450	176.5	5.7	0.001	0.09	0.79	4.0	1.4	0.5	39.0	<0.01	0.04	1.8
ZZ36083		0.16	19.6	1010	57.5	4.5	0.001	0.08	0.76	2.8	1.4	0.3	56.0	<0.01	0.03	1.0
ZZ36084		0.19	26.4	1140	197.5	5.8	0.001	0.09	0.86	3.0	2.0	0.4	49.7	<0.01	0.04	1.3
ZZ36085		0.14	53.6	1260	61.1	7.6	0.006	0.11	1.30	3.9	4.0	0.3	73.6	<0.01	0.09	1.6
ZZ36086		0.15	83.6	1480	71.8	8.1	0.006	0.12	1.48	4.8	4.9	0.4	83.1	<0.01	0.12	1.9
ZZ36087		0.13	58.7	1400	24.1	7.0	0.007	0.09	1.24	4.2	4.3	0.3	80.7	<0.01	0.09	1.4
ZZ36088		0.11	75.7	1430	58.8	6.9	0.007	0.13	1.43	4.0	4.8	0.3	86.1	<0.01	0.10	2.0
ZZ36089		0.38	26.8	930	25.0	10.6	0.001	0.06	0.32	5.0	1.3	0.5	58.5	<0.01	0.05	2.0
ZZ36090		0.29	25.9	730	24.6	8.1	<0.001	0.06	0.30	3.8	1.1	0.4	88.7	<0.01	0.02	1.3
ZZ36091		0.39	20.1	1210	17.4	9.2	<0.001	0.15	0.25	2.6	1.4	0.4	100.5	<0.01	0.06	0.9
ZZ36092		0.35	23.8	970	18.0	9.4	<0.001	0.10	0.25	3.1	1.2	0.4	66.9	<0.01	0.05	1.1
ZZ36093		0.30	19.7	780	20.4	9.9	<0.001	0.07	0.20	3.8	1.2	0.4	68.6	<0.01	0.05	1.3
ZZ36094		0.40	22.9	830	14.7	7.3	<0.001	0.11	0.26	3.0	1.1	0.3	122.5	<0.01	0.02	1.1
ZZ36095		0.40	19.9	630	18.6	8.1	<0.001	0.06	0.18	4.8	1.1	0.4	63.8	<0.01	0.04	2.0
ZZ36096		0.40	24.3	690	15.8	10.7	<0.001	0.07	0.20	4.5	1.2	0.4	73.4	<0.01	0.02	1.7
ZZ36097		0.36	26.7	830	19.5	14.0	0.001	0.05	0.21	5.2	1.0	0.5	58.1	<0.01	0.06	1.9
ZZ36098		0.37	21.8	840	20.4	8.2	0.001	0.07	0.27	3.2	1.4	0.4	78.6	<0.01	0.03	1.2
ZZ36099		0.31	8.2	920	7.8	3.2	0.001	0.19	0.13	0.9	0.7	0.2	182.5	<0.01	0.03	0.3
ZZ36100		0.24	35.3	1150	17.0	10.2	0.004	0.27	0.75	3.9	5.2	0.4	121.5	<0.01	0.05	1.4
ZZ36101		0.28	38.2	970	18.9	27.5	0.001	0.13	0.54	3.3	2.2	0.4	113.5	<0.01	0.04	1.0
ZZ36102		0.31	23.6	910	17.5	15.7	0.001	0.09	0.32	3.3	1.1	0.4	92.9	<0.01	0.05	1.1
ZZ36103		0.29	23.9	820	17.7	10.5	0.001	0.06	0.28	4.5	1.1	0.5	58.3	<0.01	0.05	1.6
ZZ36104		0.39	22.2	770	16.5	9.5	0.001	0.08	0.31	4.0	1.1	0.4	66.4	<0.01	0.03	1.6
ZZ36105		0.42	29.5	880	19.0	9.2	0.001	0.07	0.40	3.9	1.5	0.4	58.7	<0.01	0.05	1.5
ZZ36106		0.29	28.0	460	17.8	6.8	<0.001	0.04	0.40	5.1	1.2	0.4	48.0	<0.01	0.04	2.6
ZZ36107		0.31	26.9	760	18.8	7.5	0.001	0.08	0.40	3.5	1.7	0.4	70.2	<0.01	0.04	1.1
ZZ36108		0.12	26.7	560	20.2	4.9	0.001	0.07	0.40	3.3	1.1	0.3	89.0	<0.01	0.02	0.9
ZZ36109		0.18	29.6	670	18.0	5.6	<0.001	0.03	0.44	4.9	1.1	0.2	335	<0.01	0.03	2.7
ZZ36110		0.09	61.1	1280	28.0	6.5	0.003	0.16	1.32	3.4	4.6	0.3	72.1	<0.01	0.07	1.2
ZZ36111		0.31	32.9	1470	23.3	12.8	0.001	0.06	0.89	2.1	2.5	0.5	27.0	<0.01	0.09	0.6
ZZ36112		0.18	73.1	1190	24.4	7.7	0.001	0.04	1.78	5.8	2.8	0.4	58.7	<0.01	0.11	2.7
ZZ36113		0.14	42.0	1200	39.3	7.9	0.002	0.09	0.93	4.2	3.7	0.4	59.7	<0.01	0.08	1.4
ZZ36114		0.14	46.0	1100	26.9	7.2	0.003	0.11	0.86	2.9	3.3	0.4	66.0	<0.01	0.07	1.0
ZZ36115		0.19	35.2	1090	31.3	8.2	0.002	0.11	0.69	3.6	2.2	0.3	42.5	<0.01	0.04	1.4
ZZ36116		0.07	92.1	1710	29.1	9.1	0.006	0.13	1.42	3.9	5.6	0.3	84.5	<0.01	0.11	1.5
ZZ36117		0.17	30.8	1730	88.5	9.1	0.002	0.17	1.21	2.6	2.7	0.4	42.3	<0.01	0.07	1.1
ZZ36118		0.16	26.7	1310	76.4	6.3	0.002	0.13	1.04	2.4	2.1	0.3	47.1	<0.01	0.05	0.9
ZZ36119		0.34	36.7	870	23.9	9.6	0.002	0.03	1.29	2.4	1.6	0.5	29.8	<0.01	0.06	1.0

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To: ATAC RESOURCES LTD.  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36080		0.005	0.34	1.76	30	0.08	20.6	702	2.6
ZZ36081		0.005	0.66	1.74	31	0.10	19.05	1220	2.7
ZZ36082		<0.005	0.56	2.48	31	0.07	18.45	1200	2.3
ZZ36083		<0.005	0.45	1.78	20	0.06	14.10	675	1.6
ZZ36084		<0.005	0.56	2.00	22	0.06	15.90	610	2.5
ZZ36085		<0.005	0.40	2.55	30	0.05	22.6	486	1.5
ZZ36086		<0.005	0.37	3.18	39	0.05	28.1	359	1.4
ZZ36087		<0.005	0.23	2.61	35	<0.05	23.9	259	1.8
ZZ36088		<0.005	0.28	3.10	37	<0.05	23.7	334	1.0
ZZ36089		<0.005	0.14	2.13	29	0.07	16.65	121	2.0
ZZ36090		<0.005	0.14	2.61	25	0.05	15.65	96	1.7
ZZ36091		<0.005	0.15	3.64	25	0.06	11.80	68	2.2
ZZ36092		<0.005	0.13	2.47	23	0.05	12.15	139	2.1
ZZ36093		<0.005	0.13	2.14	24	0.05	11.20	102	1.9
ZZ36094		0.006	0.14	7.89	21	0.06	11.90	110	2.6
ZZ36095		0.006	0.12	4.06	25	0.07	11.50	98	2.2
ZZ36096		0.007	0.13	2.56	25	0.05	11.00	160	2.1
ZZ36097		0.005	0.17	2.85	27	0.05	14.25	148	2.1
ZZ36098		0.005	0.16	7.09	29	0.07	11.00	133	2.6
ZZ36099		0.008	0.07	5.93	11	<0.05	4.39	88	1.5
ZZ36100		<0.005	0.20	6.03	35	<0.05	16.20	177	2.8
ZZ36101		0.006	0.20	3.68	27	0.09	12.55	145	2.6
ZZ36102		0.005	0.16	4.64	27	0.06	9.49	191	1.6
ZZ36103		<0.005	0.10	3.64	27	0.06	13.25	133	2.4
ZZ36104		0.006	0.14	3.37	29	0.06	10.70	95	2.3
ZZ36105		0.008	0.17	3.14	35	0.09	12.30	133	2.2
ZZ36106		0.006	0.20	2.72	37	0.05	11.25	143	2.2
ZZ36107		0.006	0.15	3.14	28	0.06	13.85	144	1.9
ZZ36108		<0.005	0.14	4.58	22	<0.05	11.90	158	2.1
ZZ36109		0.005	0.16	3.94	22	<0.05	11.70	102	2.5
ZZ36110		<0.005	0.25	2.61	34	<0.05	22.5	256	2.6
ZZ36111		0.007	0.26	2.76	57	0.12	17.05	195	0.7
ZZ36112		<0.005	0.34	2.55	60	0.08	22.8	301	1.0
ZZ36113		<0.005	0.24	3.37	29	<0.05	22.9	277	2.6
ZZ36114		<0.005	0.19	4.04	34	<0.05	19.60	186	2.7
ZZ36115		<0.005	0.22	1.62	29	0.07	18.10	183	2.2
ZZ36116		<0.005	0.26	3.05	42	<0.05	29.8	419	1.1
ZZ36117		<0.005	0.36	2.51	28	0.06	18.40	316	2.8
ZZ36118		<0.005	0.43	2.13	26	0.07	14.75	382	2.2
ZZ36119		0.008	0.27	1.55	69	0.09	8.97	176	<0.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36120		0.20	0.004	0.44	0.99	29.5	<0.2	<10	610	0.91	0.25	0.30	0.71	27.7	12.9	25
ZZ36121		0.16	0.002	0.20	1.27	14.3	<0.2	<10	340	0.41	0.24	0.14	0.22	12.65	4.0	23
ZZ36122		0.20	0.004	0.16	0.97	12.8	<0.2	<10	700	0.34	0.19	0.57	0.40	5.98	3.3	23
ZZ36123		0.15	0.003	0.52	0.82	22.9	<0.2	<10	1040	0.67	0.23	0.95	1.07	9.63	4.9	17
ZZ36124		0.18	0.002	0.24	0.89	13.9	<0.2	<10	640	0.83	0.31	0.86	0.70	9.95	8.1	15
ZZ36125		0.20	0.002	0.41	0.76	16.5	<0.2	<10	480	1.11	0.29	2.17	0.74	14.35	9.9	16
ZZ36126		0.23	0.002	0.20	0.56	10.9	<0.2	<10	380	0.99	0.33	1.02	0.27	13.20	8.9	10
ZZ36127		0.13	0.030	0.15	0.52	5.6	<0.2	10	450	0.34	0.12	3.61	1.25	8.25	4.7	10
ZZ36128		0.20	0.006	0.59	1.32	18.5	<0.2	<10	910	0.80	0.26	1.50	1.18	19.05	10.1	29
ZZ36129		0.20	0.006	0.39	0.73	14.5	<0.2	10	1080	0.54	0.20	3.04	1.36	12.85	6.2	16
ZZ36130		0.18	0.002	0.90	0.52	15.2	<0.2	<10	1180	0.81	0.34	0.69	1.13	14.65	11.5	15
ZZ36131		0.14	0.005	0.36	0.71	12.4	<0.2	<10	580	0.58	0.20	1.93	1.80	12.50	7.5	18
ZZ36132		0.24	0.003	0.31	0.83	16.7	<0.2	<10	510	0.94	0.35	1.11	0.54	14.75	9.9	15
ZZ36133		0.14	0.004	0.28	0.77	9.6	<0.2	<10	630	0.64	0.20	2.75	0.67	10.30	7.7	13
ZZ36134		0.26	0.005	0.66	0.38	37	<0.2	<10	440	0.55	0.16	10.90	0.95	10.40	8.6	10
ZZ36135		0.24	0.004	1.40	0.41	30.5	<0.2	<10	820	0.76	0.19	1.73	1.52	8.86	10.0	20
ZZ36136		0.23	0.009	1.39	0.39	33.3	<0.2	<10	810	0.66	0.19	2.27	1.50	8.53	9.0	19
ZZ36137		0.21	0.005	1.78	0.54	33.2	<0.2	<10	810	1.35	0.19	1.68	4.36	9.59	16.4	25
ZZ36138		0.26	0.003	1.56	0.46	47.4	<0.2	<10	750	1.16	0.23	4.06	3.02	10.35	14.7	18
ZZ36139		0.20	0.006	1.65	0.49	29.7	<0.2	<10	850	1.16	0.18	1.68	3.52	8.91	14.7	24
ZZ36140		0.19	0.004	1.51	0.39	50.8	<0.2	<10	840	0.68	0.20	5.61	1.52	10.65	7.7	13
ZZ36141		0.23	0.006	1.13	0.36	21.9	<0.2	<10	890	0.62	0.17	1.93	1.92	8.96	6.4	17
ZZ36142		0.21	0.005	1.36	0.48	29.8	<0.2	<10	790	1.17	0.19	2.68	3.98	9.22	14.6	22
ZZ36143		0.16	0.003	0.30	1.24	10.9	<0.2	<10	290	0.78	0.26	0.64	0.28	19.20	7.4	20
ZZ36144		0.20	0.003	0.37	1.43	14.1	<0.2	<10	350	1.05	0.30	0.58	0.28	26.5	9.3	23
ZZ36145		0.28	0.002	0.16	1.75	14.1	<0.2	<10	350	1.24	0.32	0.38	0.24	36.9	11.3	25
ZZ36146		0.17	0.004	0.10	1.73	21.7	<0.2	<10	180	0.69	0.32	0.08	0.51	22.3	12.7	30
ZZ36147		0.24	0.004	0.15	1.68	10.4	<0.2	<10	160	0.61	0.30	0.11	0.13	16.05	5.6	25
ZZ36148		0.18	0.002	0.15	0.75	23.8	<0.2	<10	150	0.34	0.29	0.06	0.43	9.88	5.0	24
ZZ36149		0.22	0.003	0.29	1.34	17.5	<0.2	<10	220	0.41	0.22	0.07	0.32	13.00	3.7	25
ZZ36150		0.17	0.004	0.55	0.86	25.1	<0.2	<10	750	0.83	0.27	0.94	0.89	21.9	10.1	20
ZZ36151		0.20	0.005	1.03	0.39	27.4	<0.2	<10	1090	0.63	0.19	2.70	1.44	9.18	6.6	16
ZZ36152		0.24	0.005	1.15	0.36	27.8	<0.2	<10	1160	0.67	0.20	2.15	1.57	9.22	6.1	15
ZZ36153		0.23	0.008	1.34	0.37	29.7	<0.2	<10	1120	0.67	0.17	1.08	1.26	8.19	4.9	18
ZZ36154		0.16	0.005	0.25	1.22	18.7	<0.2	<10	390	1.03	0.25	1.42	0.39	28.9	9.0	24
ZZ36155		0.22	0.005	1.38	0.37	31.5	<0.2	<10	950	0.55	0.15	1.43	1.20	7.80	5.1	22
ZZ36156		0.22	0.005	1.59	0.43	37.5	<0.2	<10	1020	0.74	0.18	2.83	2.12	9.29	7.8	20
ZZ36157		0.22	0.005	1.13	0.36	24.5	<0.2	<10	1080	0.65	0.16	3.30	1.29	8.21	5.4	15
ZZ36158		0.16	0.004	1.35	0.46	31.6	<0.2	<10	960	0.94	0.20	3.04	2.87	9.31	10.4	20
ZZ36159		0.20	0.005	1.31	0.52	32.9	<0.2	10	1110	0.78	0.21	1.44	1.43	9.99	7.4	19

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36120		0.80	55.7	3.17	3.18	0.05	0.03	0.26	0.032	0.07	13.2	11.6	0.32	418	4.83	0.02
ZZ36121		1.47	16.7	2.22	5.09	<0.05	<0.02	0.03	0.026	0.06	6.8	6.6	0.15	154	2.54	0.01
ZZ36122		1.53	17.8	1.80	3.26	<0.05	0.05	0.02	0.025	0.06	3.8	2.3	0.10	262	2.94	0.02
ZZ36123		1.74	20.0	2.39	2.42	<0.05	0.13	0.07	0.031	0.09	7.1	2.6	0.10	427	2.27	0.02
ZZ36124		3.28	25.5	2.93	2.77	<0.05	0.11	0.03	0.037	0.12	5.7	3.6	0.16	390	1.71	0.01
ZZ36125		3.95	34.2	3.29	2.41	<0.05	0.09	0.15	0.036	0.14	9.0	5.1	0.96	503	1.77	0.01
ZZ36126		2.16	31.4	2.23	2.06	<0.05	0.09	0.09	0.028	0.14	7.1	2.6	0.12	186	1.04	0.01
ZZ36127		0.33	12.8	1.06	1.54	<0.05	0.04	0.14	0.010	0.05	8.5	2.9	0.11	543	0.95	0.01
ZZ36128		0.66	31.8	2.84	3.78	0.06	0.05	0.18	0.031	0.07	19.5	9.1	0.28	645	1.93	0.02
ZZ36129		0.63	18.9	1.66	2.11	<0.05	0.04	0.15	0.022	0.06	15.0	4.3	0.10	418	1.27	0.02
ZZ36130		0.61	33.6	2.79	1.51	0.06	0.08	0.13	0.040	0.16	10.1	2.7	0.06	196	1.65	0.02
ZZ36131		0.69	24.4	1.82	1.95	0.05	0.06	0.13	0.030	0.07	14.5	3.5	0.09	319	1.52	0.02
ZZ36132		0.71	28.8	2.84	2.60	<0.05	0.07	0.10	0.028	0.12	9.2	5.8	0.19	361	1.26	0.01
ZZ36133		0.78	18.8	1.94	2.26	<0.05	0.07	0.11	0.024	0.07	6.5	2.6	0.18	570	1.44	0.02
ZZ36134		2.10	32.4	2.41	1.29	<0.05	0.03	0.38	0.019	0.08	5.5	5.0	6.19	711	2.42	0.02
ZZ36135		2.23	66.0	2.87	1.31	0.07	0.03	0.16	0.033	0.12	6.4	1.8	0.47	253	4.90	0.02
ZZ36136		2.35	58.5	2.65	1.30	0.06	0.03	0.19	0.030	0.12	6.2	1.7	0.79	265	4.98	0.02
ZZ36137		1.72	128.0	4.65	1.33	0.08	0.05	0.21	0.053	0.11	7.0	1.9	0.23	354	5.47	0.02
ZZ36138		3.32	80.9	3.88	1.37	0.07	0.03	0.32	0.039	0.14	6.7	1.9	1.70	495	4.10	0.02
ZZ36139		1.82	109.0	4.03	1.25	0.08	0.03	0.19	0.045	0.11	6.3	1.8	0.28	315	5.45	0.02
ZZ36140		2.12	57.2	2.66	1.29	<0.05	0.07	0.63	0.022	0.12	6.4	2.5	3.01	561	2.68	0.02
ZZ36141		1.31	52.9	2.29	1.27	0.05	0.03	0.48	0.029	0.12	5.5	1.8	0.25	134	6.71	0.02
ZZ36142		2.25	102.0	3.69	1.31	0.07	0.04	0.21	0.045	0.12	6.4	1.9	0.43	344	5.52	0.02
ZZ36143		0.90	18.1	3.19	3.65	<0.05	0.06	0.06	0.032	0.08	7.8	13.2	0.25	414	1.14	0.01
ZZ36144		0.96	24.5	3.72	3.87	0.07	0.07	0.12	0.033	0.07	11.2	13.8	0.27	590	1.58	0.01
ZZ36145		1.54	28.4	3.89	5.07	0.05	0.06	0.05	0.045	0.07	12.5	19.3	0.31	476	1.38	0.01
ZZ36146		1.49	39.4	4.15	4.72	<0.05	0.03	0.06	0.035	0.08	9.2	25.6	0.39	460	2.73	0.01
ZZ36147		1.51	23.0	2.73	5.35	<0.05	0.02	0.06	0.029	0.08	7.2	15.1	0.26	145	1.92	0.01
ZZ36148		1.18	29.8	3.02	3.87	<0.05	<0.02	0.06	0.028	0.07	4.7	3.0	0.08	208	3.84	0.01
ZZ36149		1.39	20.1	2.45	4.97	<0.05	0.02	0.06	0.021	0.06	6.6	9.1	0.15	86	3.48	0.01
ZZ36150		0.79	41.0	3.40	2.71	0.05	0.07	0.17	0.034	0.09	9.8	8.4	0.24	451	3.03	0.02
ZZ36151		1.17	43.7	2.22	1.29	0.05	0.07	3.16	0.027	0.10	5.4	2.8	1.16	281	4.01	0.02
ZZ36152		1.02	40.6	2.43	1.14	0.05	0.09	0.25	0.026	0.10	5.4	2.1	0.80	386	4.04	0.02
ZZ36153		1.19	40.4	2.27	1.20	0.05	0.05	0.27	0.027	0.10	5.1	1.7	0.27	154	4.38	0.02
ZZ36154		0.87	25.7	2.92	3.67	0.06	0.06	0.15	0.032	0.10	16.1	13.6	0.39	496	0.88	0.01
ZZ36155		1.13	48.8	2.02	1.18	0.05	0.03	0.26	0.028	0.10	5.7	1.3	0.47	144	5.03	0.02
ZZ36156		1.38	63.7	2.86	1.32	0.06	0.03	0.37	0.032	0.10	6.3	1.9	1.20	255	5.14	0.02
ZZ36157		1.20	43.7	2.16	1.25	0.05	0.04	0.25	0.028	0.10	4.9	2.3	1.45	266	4.00	0.02
ZZ36158		1.67	68.7	3.16	1.37	0.06	0.03	0.19	0.036	0.11	6.2	2.2	0.81	304	5.06	0.02
ZZ36159		1.24	53.1	2.68	1.75	0.06	0.05	0.31	0.037	0.10	5.9	3.5	0.47	247	4.81	0.02

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36120		0.40	65.8	1090	42.9	6.5	0.002	0.03	2.08	5.5	2.6	0.5	43.9	<0.01	0.09	4.4
ZZ36121		0.25	20.7	1050	15.0	9.9	<0.001	0.04	0.66	0.4	1.0	0.7	16.8	<0.01	0.06	<0.2
ZZ36122		0.23	23.3	1700	14.7	9.0	0.002	0.09	0.62	2.1	1.3	0.5	22.3	<0.01	0.08	0.6
ZZ36123		0.22	23.5	1910	28.3	14.2	0.002	0.13	0.56	3.1	1.7	0.4	28.2	<0.01	0.05	1.2
ZZ36124		0.33	24.8	1010	27.1	16.7	<0.001	0.07	0.47	3.8	1.4	0.5	27.0	<0.01	0.05	1.5
ZZ36125		0.32	33.4	880	59.5	14.0	0.001	0.07	0.66	4.6	1.5	0.4	36.2	<0.01	0.07	1.8
ZZ36126		0.27	24.4	560	24.5	10.6	0.003	0.07	0.37	3.6	1.7	0.4	38.3	<0.01	0.03	1.9
ZZ36127		0.27	14.0	1570	9.8	4.4	<0.001	0.23	0.49	0.7	2.5	0.2	48.7	<0.01	0.03	0.2
ZZ36128		0.42	44.9	1580	20.6	6.0	<0.001	0.08	0.96	2.7	2.6	0.4	32.9	<0.01	0.10	0.8
ZZ36129		0.28	37.3	1310	13.1	5.6	0.002	0.16	0.80	1.6	2.1	0.3	32.7	<0.01	0.11	0.5
ZZ36130		0.15	61.9	820	23.3	8.1	0.007	0.17	1.22	4.6	3.0	0.5	30.3	<0.01	0.19	2.7
ZZ36131		0.29	44.2	1330	13.1	6.7	0.002	0.15	1.03	2.4	2.2	0.4	31.5	<0.01	0.10	0.6
ZZ36132		0.30	27.8	770	27.6	8.1	0.001	0.07	0.49	3.1	1.4	0.5	32.0	<0.01	0.05	1.5
ZZ36133		0.25	19.8	1590	18.1	11.2	0.001	0.22	0.59	1.5	2.5	0.3	69.0	<0.01	0.05	0.4
ZZ36134		0.15	47.1	700	43.0	5.9	0.001	0.06	1.18	3.5	1.7	0.3	80.2	<0.01	0.03	2.5
ZZ36135		0.08	101.5	1840	15.1	9.5	0.012	0.17	1.23	5.0	6.1	0.4	93.5	<0.01	0.14	2.6
ZZ36136		0.08	88.5	1740	20.9	9.0	0.013	0.18	1.32	4.8	6.1	0.4	92.8	<0.01	0.12	2.7
ZZ36137		0.05	237	2850	40.6	9.1	0.007	0.25	1.47	7.7	8.9	0.4	125.0	<0.01	0.16	2.4
ZZ36138		0.08	142.5	2180	164.5	10.4	0.004	0.23	1.46	5.8	6.3	0.4	105.0	<0.01	0.14	2.6
ZZ36139		<0.05	197.5	2500	33.4	9.3	0.008	0.25	1.34	6.7	8.7	0.4	114.5	<0.01	0.16	2.5
ZZ36140		0.12	50.7	1200	222	9.0	0.004	0.14	1.82	3.8	3.1	0.3	68.8	<0.01	0.08	1.5
ZZ36141		0.05	85.7	1510	17.9	9.0	0.004	0.14	1.83	3.8	5.5	0.4	84.8	<0.01	0.09	2.0
ZZ36142		0.05	179.5	2380	32.0	9.8	0.008	0.22	1.46	6.0	7.4	0.4	112.5	<0.01	0.14	2.3
ZZ36143		0.35	21.4	1360	18.8	13.4	<0.001	0.10	0.42	2.7	1.1	0.4	31.8	<0.01	0.04	1.1
ZZ36144		0.39	28.1	1080	22.8	12.8	<0.001	0.06	0.59	3.6	1.0	0.5	35.3	<0.01	0.09	1.5
ZZ36145		0.44	32.8	900	24.6	13.5	<0.001	0.03	0.54	4.4	1.3	0.5	31.5	<0.01	0.05	2.1
ZZ36146		0.50	45.9	510	27.2	12.2	<0.001	0.02	0.99	3.4	1.3	0.5	19.9	<0.01	0.09	2.9
ZZ36147		0.38	20.9	870	13.0	12.2	<0.001	0.05	0.55	1.5	0.9	0.6	13.5	<0.01	0.06	0.5
ZZ36148		0.27	32.3	1050	23.8	9.6	<0.001	0.03	1.16	0.7	1.6	0.5	18.2	<0.01	0.08	0.2
ZZ36149		0.51	19.4	730	16.0	9.9	<0.001	0.03	0.74	1.6	1.4	0.6	16.9	<0.01	0.04	0.8
ZZ36150		0.27	43.6	830	29.2	9.0	<0.001	0.06	0.91	4.6	2.1	0.4	59.6	<0.01	0.08	1.8
ZZ36151		0.08	56.4	1420	32.8	7.8	0.005	0.10	1.35	3.6	4.7	0.3	73.2	<0.01	0.06	1.3
ZZ36152		0.08	54.4	1320	51.5	6.8	0.001	0.14	1.34	3.4	4.8	0.3	65.1	<0.01	0.10	1.2
ZZ36153		0.06	53.6	1440	50.4	8.1	0.002	0.10	1.37	3.8	4.7	0.3	76.6	<0.01	0.10	1.2
ZZ36154		0.46	25.1	990	17.3	10.2	<0.001	0.09	0.43	3.8	2.0	0.4	50.5	<0.01	0.04	1.2
ZZ36155		0.05	64.7	1730	23.1	7.4	0.005	0.13	1.34	3.9	5.8	0.4	77.7	<0.01	0.15	2.6
ZZ36156		0.07	87.1	1640	58.2	8.1	0.006	0.13	1.67	4.6	5.5	0.4	89.1	<0.01	0.14	1.8
ZZ36157		0.06	56.1	1270	28.2	7.7	0.005	0.10	1.29	4.0	4.8	0.3	85.4	<0.01	0.08	1.5
ZZ36158		0.07	125.5	1690	33.9	9.6	0.009	0.16	1.34	4.9	6.9	0.4	96.0	<0.01	0.13	1.7
ZZ36159		0.16	71.3	1250	34.8	8.9	0.002	0.08	1.46	4.6	5.9	0.4	67.1	<0.01	0.09	1.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36120		0.016	0.21	2.16	69	0.11	20.8	260	1.3
ZZ36121		0.006	0.22	0.90	67	0.12	4.68	99	<0.5
ZZ36122		<0.005	0.19	1.04	62	0.07	4.55	129	1.0
ZZ36123		<0.005	0.23	2.60	38	0.06	16.55	185	3.1
ZZ36124		<0.005	0.21	1.23	28	0.06	9.38	164	2.8
ZZ36125		0.005	0.21	1.16	31	0.10	17.20	211	2.7
ZZ36126		<0.005	0.15	1.32	18	<0.05	10.70	76	2.4
ZZ36127		0.007	0.07	3.20	20	<0.05	15.65	72	1.0
ZZ36128		0.010	0.13	1.69	58	0.16	36.3	168	1.4
ZZ36129		0.005	0.12	1.50	28	0.06	27.8	133	1.6
ZZ36130		<0.005	0.21	1.57	25	0.07	23.8	212	2.6
ZZ36131		0.006	0.12	1.68	31	0.06	32.3	196	2.0
ZZ36132		<0.005	0.14	1.56	29	0.07	14.40	128	2.0
ZZ36133		<0.005	0.13	4.66	25	0.05	11.85	87	1.6
ZZ36134		0.005	0.39	1.53	31	<0.05	11.80	219	2.0
ZZ36135		<0.005	0.27	3.86	42	<0.05	31.2	354	1.5
ZZ36136		<0.005	0.25	3.65	40	<0.05	30.3	318	1.5
ZZ36137		<0.005	0.25	5.54	54	<0.05	62.2	1040	1.5
ZZ36138		<0.005	0.38	4.32	39	<0.05	39.9	710	1.1
ZZ36139		<0.005	0.23	4.90	49	<0.05	50.2	859	1.4
ZZ36140		<0.005	0.46	2.41	29	0.06	20.5	309	1.7
ZZ36141		<0.005	0.21	3.37	59	0.05	24.7	399	1.5
ZZ36142		<0.005	0.27	5.04	52	<0.05	47.5	850	1.1
ZZ36143		0.007	0.16	1.48	38	0.09	8.77	103	1.4
ZZ36144		0.008	0.20	1.94	53	0.16	14.20	129	1.5
ZZ36145		0.007	0.21	1.54	48	0.15	12.65	118	1.3
ZZ36146		0.008	0.20	0.97	62	0.10	5.46	203	0.9
ZZ36147		0.006	0.23	1.21	56	0.10	5.02	75	0.5
ZZ36148		0.008	0.28	1.02	74	0.13	3.92	177	<0.5
ZZ36149		0.009	0.25	0.94	70	0.12	3.64	91	0.5
ZZ36150		0.006	0.27	2.66	48	0.11	15.10	222	1.5
ZZ36151		<0.005	0.27	2.81	44	<0.05	21.8	287	1.9
ZZ36152		<0.005	0.25	2.79	39	<0.05	22.3	271	2.1
ZZ36153		<0.005	0.17	3.04	47	<0.05	23.0	300	1.6
ZZ36154		0.010	0.15	3.68	35	0.06	14.60	102	1.6
ZZ36155		<0.005	0.18	3.49	43	<0.05	25.9	270	1.6
ZZ36156		<0.005	0.27	3.59	48	<0.05	29.6	447	1.1
ZZ36157		<0.005	0.20	2.60	41	<0.05	21.6	273	1.3
ZZ36158		<0.005	0.23	3.56	48	<0.05	35.2	558	0.9
ZZ36159		<0.005	0.22	2.68	52	0.08	23.0	334	1.9



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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ36160		0.24	0.003	0.34	1.52	14.2	<0.2	<10	440	0.98	0.29	0.82	0.56	22.2	11.2	29
ZZ36161		0.23	0.002	0.24	1.58	13.6	<0.2	<10	340	0.74	0.28	0.79	0.59	27.3	12.9	29
ZZ36162		0.18	0.004	0.20	1.43	14.4	<0.2	<10	430	0.81	0.25	1.03	0.43	18.15	9.7	25
ZZ36163		0.23	0.005	0.46	0.82	19.7	<0.2	<10	240	0.83	0.24	2.60	1.30	21.2	14.1	17
ZZ36164		0.17	0.006	1.11	0.48	22.4	<0.2	<10	910	0.71	0.18	1.72	0.75	9.73	4.8	18
ZZ36165		0.21	0.004	0.24	1.23	10.1	<0.2	<10	280	1.08	0.27	0.63	0.38	18.85	7.7	28
ZZ36166		0.22	0.001	0.26	1.55	11.5	<0.2	<10	200	0.37	0.28	0.11	0.11	14.90	3.0	25
ZZ36167		0.22	0.007	0.24	1.14	14.5	<0.2	<10	250	1.17	0.30	0.62	0.63	22.8	11.4	29
ZZ36168		0.24	0.003	0.32	1.28	22.9	<0.2	<10	300	0.94	0.29	0.19	0.68	18.55	9.6	28
ZZ36169		0.19	0.005	0.56	1.15	9.4	<0.2	<10	660	0.62	0.19	1.04	0.34	13.75	5.8	24
ZZ36170		0.25	0.002	0.28	1.48	9.1	<0.2	<10	470	1.08	0.27	0.74	0.80	22.6	9.6	30

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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ36160		0.99	33.8	3.80	4.02	0.05	0.10	0.12	0.031	0.11	11.0	26.1	0.56	502	1.33	0.02
ZZ36161		0.88	28.3	3.58	4.55	<0.05	0.07	0.09	0.031	0.11	10.2	29.8	0.62	506	1.34	0.02
ZZ36162		0.94	28.4	3.24	4.07	<0.05	0.08	0.10	0.030	0.09	8.3	17.9	0.46	438	1.71	0.02
ZZ36163		1.33	54.5	3.71	2.58	0.06	0.10	0.20	0.029	0.12	9.4	13.2	1.25	681	2.42	0.01
ZZ36164		1.16	33.2	1.97	1.59	0.05	0.07	0.28	0.029	0.09	5.7	4.2	0.69	219	2.89	0.02
ZZ36165		0.75	26.7	3.18	3.66	0.05	0.11	0.15	0.030	0.09	9.5	21.7	0.48	208	1.60	0.01
ZZ36166		1.52	14.7	2.24	5.25	<0.05	0.04	0.08	0.025	0.06	6.9	14.1	0.21	69	2.10	0.01
ZZ36167		0.63	31.2	3.32	3.65	<0.05	0.12	0.15	0.030	0.10	10.1	20.5	0.47	364	2.51	0.01
ZZ36168		1.20	44.0	3.79	3.97	<0.05	0.04	0.12	0.037	0.09	8.3	15.7	0.24	387	3.48	0.01
ZZ36169		0.66	20.3	2.38	3.43	<0.05	0.08	0.22	0.025	0.06	6.7	17.4	0.30	81	0.91	0.02
ZZ36170		0.81	37.3	2.50	4.58	0.05	0.10	0.17	0.033	0.10	10.7	33.1	0.56	115	1.10	0.01

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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ36160		0.30	32.7	920	21.7	10.5	<0.001	0.06	0.73	4.5	2.0	0.4	38.9	<0.01	0.05	1.7
ZZ36161		0.49	30.4	800	20.0	9.8	<0.001	0.06	0.64	4.2	2.2	0.4	38.4	<0.01	0.03	1.8
ZZ36162		0.37	27.2	1180	20.0	11.6	<0.001	0.09	0.68	3.2	1.8	0.4	42.8	<0.01	0.08	1.0
ZZ36163		0.22	48.1	1080	27.1	8.3	<0.001	0.06	1.30	5.9	1.9	0.3	50.1	<0.01	0.05	2.4
ZZ36164		0.09	39.0	1190	42.2	8.7	0.002	0.08	0.90	4.2	4.1	0.4	75.9	<0.01	0.10	1.6
ZZ36165		0.25	34.2	700	19.3	12.9	<0.001	0.05	0.47	4.8	1.6	0.4	31.5	<0.01	0.05	2.3
ZZ36166		0.47	13.1	980	16.2	10.1	<0.001	0.04	0.41	1.5	0.7	0.6	13.7	<0.01	0.03	0.8
ZZ36167		0.24	38.5	780	25.8	10.5	<0.001	0.04	0.78	5.0	2.4	0.5	39.7	<0.01	0.04	2.7
ZZ36168		0.29	45.9	1090	23.2	11.2	<0.001	0.03	1.06	3.7	1.9	0.5	34.2	<0.01	0.08	1.7
ZZ36169		0.24	19.2	970	15.5	9.4	0.001	0.13	0.34	3.4	4.1	0.4	59.7	<0.01	0.03	1.3
ZZ36170		0.38	37.7	790	19.8	10.7	<0.001	0.08	0.70	5.2	1.4	0.5	43.1	<0.01	0.04	2.4

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**CERTIFICATE OF ANALYSIS WH12209623**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ36160		0.010	0.15	2.09	49	0.08	14.40	186	2.3
ZZ36161		0.015	0.13	3.95	45	0.09	8.38	173	1.9
ZZ36162		0.009	0.15	4.74	50	0.11	9.89	145	1.8
ZZ36163		0.006	0.32	1.50	41	0.05	16.10	209	2.6
ZZ36164		<0.005	0.21	2.58	45	<0.05	20.8	220	1.9
ZZ36165		0.005	0.18	2.80	43	0.05	13.40	179	2.9
ZZ36166		0.007	0.25	1.38	63	0.18	3.43	57	0.7
ZZ36167		<0.005	0.23	2.51	55	<0.05	14.15	201	2.7
ZZ36168		0.006	0.25	1.76	65	0.07	11.55	210	0.7
ZZ36169		<0.005	0.17	3.07	52	0.17	10.55	94	1.9
ZZ36170		0.007	0.20	1.55	65	<0.05	16.00	165	2.6

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Page: Appendix 1  
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Account: RCM

Project: ATAC- Regional - Area B

**CERTIFICATE OF ANALYSIS WH12209623**

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12223911**

Project: AtacRegional- AreaB- RacklaCntrl  
 P.O. No.: Soil 40  
 This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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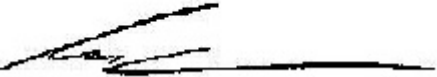
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31586		0.22	0.006	1.17	0.39	61.3	<0.2	<10	200	0.63	0.21	0.42	1.26	16.55	9.3	6
ZZ31587		0.21	0.010	1.85	0.50	79.2	<0.2	<10	150	0.46	0.25	0.09	0.45	10.30	9.2	8
ZZ31588		0.16	0.010	1.15	0.40	69.5	<0.2	<10	180	0.37	0.23	0.12	0.70	10.65	2.5	6
ZZ31589		0.13	0.009	0.74	1.03	98.4	<0.2	<10	400	1.39	0.27	0.84	2.76	29.6	26.4	16
ZZ31590		0.13	0.007	0.99	0.69	162.0	<0.2	<10	380	0.99	0.24	0.67	1.86	16.75	11.3	11
ZZ31591		0.25	0.004	0.43	1.02	110.5	<0.2	<10	320	1.10	0.29	1.79	2.38	19.05	16.1	18
ZZ31592		0.18	0.006	0.55	0.96	120.0	<0.2	<10	340	1.13	0.27	1.95	2.21	19.35	14.2	17
ZZ31593		0.12	0.005	0.57	0.86	92.9	<0.2	<10	340	1.06	0.23	1.39	1.85	16.65	11.4	15
ZZ31594		0.11	0.005	0.78	0.76	107.5	<0.2	<10	360	0.90	0.22	1.45	1.64	14.00	8.9	13
ZZ31595		0.08	0.007	0.57	0.87	139.5	<0.2	<10	450	0.94	0.20	2.54	1.55	14.15	7.6	17
ZZ31596		0.12	0.005	0.45	1.00	42.9	<0.2	<10	540	0.90	0.18	2.39	1.80	16.40	10.1	19
ZZ31597		0.12	0.005	0.46	0.98	35.8	<0.2	<10	450	0.86	0.18	2.77	1.62	15.30	9.3	20
ZZ31598		0.18	0.005	0.39	1.01	33.0	<0.2	<10	250	0.85	0.19	2.49	1.56	17.00	10.8	19
ZZ31599		0.12	0.003	0.39	1.04	26.3	<0.2	<10	420	0.86	0.21	2.78	1.37	13.15	10.6	19
ZZ31600		0.18	0.004	0.29	1.39	26.8	<0.2	<10	290	1.01	0.22	1.60	1.16	12.35	14.8	24
ZZ31601		0.20	0.003	0.25	1.47	31.3	<0.2	<10	330	1.03	0.22	1.67	0.91	9.88	13.0	24
ZZ31602		0.09	0.009	0.18	1.08	18.7	<0.2	<10	320	0.74	0.15	2.76	0.64	6.27	9.2	17
ZZ31603		0.15	0.007	0.19	1.23	29.0	<0.2	<10	320	0.86	0.18	2.24	0.74	7.89	10.6	19
ZZ31604		0.19	0.003	0.25	1.50	44.6	<0.2	<10	310	1.09	0.20	1.66	0.83	10.50	12.7	24
ZZ31605		0.22	0.004	0.28	1.58	46.6	<0.2	<10	300	1.09	0.23	1.24	0.83	10.70	15.1	26
ZZ31606		0.18	0.004	0.23	1.43	32.3	<0.2	<10	320	0.99	0.20	1.76	0.73	8.21	12.0	23
ZZ31607		0.22	0.004	0.23	1.42	38.6	<0.2	<10	330	0.96	0.20	1.85	0.58	7.73	10.3	23
ZZ31608		0.14	0.006	0.23	1.24	30.3	<0.2	<10	300	0.85	0.18	2.06	1.03	9.81	10.4	21
ZZ31609		0.09	NSS	0.23	1.04	27.0	<0.2	<10	370	0.73	0.16	3.16	0.70	6.47	7.6	17
ZZ31610		0.16	0.006	0.30	1.33	54.9	<0.2	<10	350	0.95	0.20	2.46	1.02	10.80	10.9	22
ZZ31611		0.20	0.006	0.38	1.39	73.0	<0.2	<10	420	1.04	0.25	1.32	1.17	16.20	13.5	24
ZZ31612		0.15	0.006	0.38	1.02	80.8	<0.2	<10	350	0.80	0.19	2.25	2.02	14.80	10.8	18
ZZ31613		0.27	0.004	0.48	0.92	33.9	<0.2	<10	520	0.87	0.20	2.76	2.17	19.15	12.1	20
ZZ31614		0.25	0.003	0.50	0.89	30.9	<0.2	<10	520	0.86	0.22	3.36	2.45	16.60	12.3	19
ZZ31615		0.27	0.003	0.53	0.89	33.0	<0.2	<10	550	0.84	0.22	2.67	2.36	17.85	10.8	19
ZZ31616		0.16	0.003	0.81	1.12	47.9	<0.2	<10	1180	1.00	0.19	2.73	1.77	16.30	12.0	24
ZZ31617		0.17	0.003	0.79	0.93	48.1	<0.2	<10	720	0.72	0.19	1.49	3.20	13.90	22.1	23
ZZ31618		0.12	0.007	0.81	0.99	30.2	<0.2	<10	650	0.79	0.19	2.21	1.77	13.25	8.4	22
ZZ31619		0.13	0.002	0.55	0.99	50.9	<0.2	10	490	0.78	0.19	2.32	1.16	14.40	9.3	20
ZZ31620		0.13	0.002	0.54	1.09	46.2	<0.2	10	500	0.81	0.20	2.31	1.17	15.05	9.4	21
ZZ31621		0.25	0.005	0.45	1.08	43.1	<0.2	<10	420	0.85	0.22	1.85	1.07	16.80	9.1	21
ZZ31622		0.21	0.004	0.48	1.02	42.4	<0.2	10	380	0.84	0.23	1.91	1.06	18.25	10.6	20
ZZ31623		0.13	0.015	0.35	0.71	44.5	<0.2	10	220	0.50	0.15	3.13	1.17	11.40	7.0	14
ZZ31624		0.09	NSS	0.35	0.65	60.9	<0.2	10	160	0.56	0.17	3.34	1.15	11.55	7.0	14
ZZ31625		0.11	0.002	0.29	0.60	66.3	<0.2	10	150	0.42	0.13	3.70	1.03	9.69	6.4	11

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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ31586		20.1	74.9	2.14	1.28	0.06	0.02	0.25	0.035	0.11	5.6	1.5	0.10	149	5.44	0.01
ZZ31587		33.8	40.1	1.94	1.94	<0.05	<0.02	0.54	0.034	0.12	4.2	2.9	0.06	213	5.12	0.01
ZZ31588		12.95	40.7	1.44	1.42	<0.05	<0.02	0.64	0.035	0.09	4.0	1.6	0.04	61	2.33	0.01
ZZ31589		6.46	82.2	3.54	3.02	0.07	0.07	0.52	0.044	0.12	11.3	11.1	0.30	1430	3.32	0.02
ZZ31590		7.92	66.1	3.04	2.01	0.06	0.04	0.72	0.042	0.12	6.7	5.8	0.21	556	4.14	0.01
ZZ31591		3.93	50.9	3.54	3.60	0.05	0.05	0.45	0.031	0.13	7.3	14.8	1.05	1000	4.30	0.02
ZZ31592		4.09	54.6	3.44	3.32	0.05	0.07	0.53	0.034	0.12	8.2	14.0	1.01	877	4.52	0.02
ZZ31593		3.03	48.6	2.91	2.77	0.05	0.07	0.45	0.035	0.11	7.0	11.0	0.53	589	4.33	0.01
ZZ31594		3.51	49.4	2.54	2.48	0.05	0.07	0.52	0.031	0.10	6.5	9.2	0.43	401	4.01	0.01
ZZ31595		1.52	38.1	2.50	2.74	0.05	0.06	0.67	0.032	0.09	7.8	10.2	0.91	356	3.26	0.02
ZZ31596		0.54	30.3	2.47	3.04	0.05	0.05	0.66	0.030	0.07	8.3	13.9	0.71	839	2.60	0.02
ZZ31597		0.64	34.6	2.82	2.92	0.05	0.05	0.49	0.028	0.07	9.2	14.8	1.03	406	2.99	0.02
ZZ31598		0.79	31.1	2.88	3.09	0.05	0.04	0.37	0.031	0.08	7.9	16.9	1.11	455	2.73	0.02
ZZ31599		0.87	34.3	2.85	3.09	<0.05	0.05	2.25	0.028	0.08	6.6	16.3	0.91	464	2.71	0.02
ZZ31600		1.22	34.3	3.30	4.10	<0.05	0.06	0.32	0.038	0.10	5.6	25.2	0.72	613	2.11	0.02
ZZ31601		1.05	36.7	3.24	4.12	<0.05	0.06	0.29	0.037	0.10	5.0	25.3	0.69	495	1.66	0.02
ZZ31602		0.61	26.4	2.16	3.03	<0.05	0.06	0.21	0.028	0.08	3.4	17.8	0.37	356	0.79	0.02
ZZ31603		0.58	26.8	2.61	3.41	<0.05	0.06	0.30	0.029	0.07	4.1	20.3	0.40	490	1.02	0.02
ZZ31604		0.93	32.8	3.12	4.29	<0.05	0.06	0.41	0.037	0.09	5.8	26.4	0.55	488	1.37	0.02
ZZ31605		1.16	35.7	3.56	4.64	<0.05	0.06	0.35	0.037	0.10	5.4	28.5	0.64	553	1.71	0.02
ZZ31606		0.97	35.6	2.99	4.04	<0.05	0.06	0.26	0.035	0.09	4.4	25.0	0.53	468	1.27	0.02
ZZ31607		0.92	33.9	2.98	3.87	<0.05	0.06	0.32	0.034	0.09	5.0	23.8	0.47	332	1.29	0.02
ZZ31608		0.62	26.3	2.54	3.49	<0.05	0.05	0.35	0.027	0.07	5.2	19.0	0.39	882	1.22	0.02
ZZ31609		0.67	28.6	2.08	2.90	<0.05	0.05	0.33	0.027	0.06	4.4	15.3	0.32	387	1.05	0.02
ZZ31610		0.68	32.8	2.94	3.78	<0.05	0.05	0.80	0.028	0.08	6.2	21.1	0.76	564	1.78	0.02
ZZ31611		1.10	36.4	3.41	4.23	0.05	0.06	0.89	0.037	0.10	7.9	21.7	0.49	515	2.60	0.02
ZZ31612		0.86	33.2	2.72	3.15	<0.05	0.05	0.89	0.029	0.08	6.9	14.4	0.45	623	2.56	0.02
ZZ31613		1.13	40.3	2.96	2.99	0.05	0.05	5.06	0.029	0.10	8.4	14.7	0.97	507	4.96	0.02
ZZ31614		1.14	44.0	2.76	3.04	0.05	0.06	0.39	0.029	0.10	7.5	15.4	0.96	501	4.46	0.02
ZZ31615		1.15	42.7	2.83	3.03	0.06	0.05	0.54	0.032	0.10	8.2	15.0	1.04	398	4.94	0.02
ZZ31616		1.13	43.9	2.79	3.19	0.06	0.07	0.53	0.029	0.06	9.2	12.9	0.77	1420	4.80	0.02
ZZ31617		1.15	36.2	3.72	2.82	<0.05	0.05	0.49	0.029	0.07	6.9	12.1	0.29	1140	6.13	0.02
ZZ31618		0.89	35.6	2.28	2.74	<0.05	0.07	0.60	0.030	0.07	6.6	12.8	0.38	601	2.38	0.02
ZZ31619		0.91	30.0	2.55	3.03	0.05	0.06	0.44	0.032	0.08	6.7	13.5	0.39	544	4.42	0.02
ZZ31620		0.79	32.8	2.67	3.31	0.05	0.05	0.49	0.030	0.08	7.1	14.6	0.57	647	3.60	0.02
ZZ31621		0.97	34.4	2.70	3.35	0.05	0.05	0.63	0.028	0.08	8.4	14.7	0.53	342	4.70	0.02
ZZ31622		1.03	28.3	2.58	3.31	0.06	0.06	0.52	0.029	0.07	8.8	14.4	0.55	770	4.91	<0.01
ZZ31623		0.64	20.7	1.62	2.18	0.07	0.05	0.45	0.021	0.05	5.7	9.0	0.29	534	2.94	<0.01
ZZ31624		0.61	24.3	1.61	1.96	0.07	0.05	0.47	0.020	0.04	5.6	8.0	0.24	478	2.77	0.01
ZZ31625		0.68	17.1	1.39	1.80	0.07	0.05	0.35	0.017	0.03	4.6	5.8	0.18	643	4.36	0.01

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ31586		0.11	45.6	730	17.8	14.2	0.002	0.05	3.02	4.3	4.9	0.5	29.1	<0.01	0.07	2.3
ZZ31587		0.14	27.9	900	24.0	24.9	0.001	0.03	2.27	2.8	3.0	0.6	16.5	<0.01	0.07	2.0
ZZ31588		0.15	16.7	660	15.4	17.3	0.001	0.05	1.29	3.1	4.2	0.4	14.3	<0.01	0.09	2.2
ZZ31589		0.22	82.1	850	30.0	16.1	0.002	0.07	1.95	7.8	4.9	0.5	38.7	<0.01	0.07	4.4
ZZ31590		0.15	46.9	820	23.2	14.4	0.004	0.07	2.34	5.6	4.6	0.5	34.8	<0.01	0.08	3.0
ZZ31591		0.23	56.2	660	39.6	11.3	0.002	0.07	2.12	6.0	2.5	0.6	34.6	<0.01	0.08	4.6
ZZ31592		0.23	52.7	730	38.7	11.6	0.003	0.07	2.45	6.2	2.8	0.6	34.3	<0.01	0.07	3.9
ZZ31593		0.21	42.8	700	34.8	10.1	0.003	0.07	2.03	5.3	2.4	0.5	31.5	<0.01	0.07	3.1
ZZ31594		0.20	37.8	770	33.5	10.4	0.003	0.08	2.26	4.5	3.1	0.5	32.9	<0.01	0.07	2.4
ZZ31595		0.26	36.1	940	38.0	7.6	0.002	0.08	2.05	3.7	2.6	0.5	38.5	<0.01	0.05	1.4
ZZ31596		0.28	39.3	810	18.9	5.9	0.001	0.08	1.45	4.1	1.8	0.4	34.4	<0.01	0.04	1.2
ZZ31597		0.24	40.0	900	18.3	6.3	0.002	0.05	1.54	4.6	2.2	0.5	43.7	<0.01	0.04	1.6
ZZ31598		0.28	42.9	850	17.8	6.6	0.001	0.03	1.35	5.3	1.3	0.5	42.9	<0.01	0.05	3.1
ZZ31599		0.22	43.3	900	18.8	7.1	0.001	0.06	1.39	4.5	1.8	0.5	45.1	<0.01	0.06	1.8
ZZ31600		0.18	51.0	860	16.5	8.7	0.001	0.04	0.91	6.1	1.6	0.5	28.5	<0.01	0.04	2.7
ZZ31601		0.16	48.6	820	17.0	8.6	0.001	0.05	0.87	5.9	1.2	0.5	23.9	<0.01	0.05	2.5
ZZ31602		0.15	35.0	800	10.7	7.0	0.001	0.11	0.54	3.1	1.1	0.4	31.4	<0.01	0.03	0.9
ZZ31603		0.18	38.4	770	14.4	6.9	0.001	0.09	0.63	3.8	1.1	0.5	27.8	<0.01	0.03	1.3
ZZ31604		0.22	46.3	850	17.6	8.8	<0.001	0.06	0.81	5.6	1.3	0.6	23.2	<0.01	0.05	2.0
ZZ31605		0.17	52.6	870	19.6	9.2	0.001	0.04	0.80	6.5	1.5	0.6	21.4	<0.01	0.06	2.8
ZZ31606		0.16	46.2	790	14.5	8.9	0.001	0.07	0.66	5.1	1.1	1.2	22.7	<0.01	0.05	1.8
ZZ31607		0.16	41.7	820	14.9	8.6	0.001	0.09	0.74	4.7	1.2	0.5	24.2	<0.01	0.05	1.4
ZZ31608		0.23	37.8	870	14.9	7.3	<0.001	0.09	0.66	3.8	1.1	0.4	28.9	<0.01	0.04	1.1
ZZ31609		0.19	30.3	980	11.8	7.8	0.001	0.15	0.94	2.5	1.7	0.4	37.8	<0.01	0.05	0.6
ZZ31610		0.20	39.8	990	19.6	7.3	0.001	0.09	1.15	4.3	1.5	0.5	31.0	<0.01	0.06	1.2
ZZ31611		0.32	47.9	920	25.0	8.6	<0.001	0.05	1.42	5.5	1.4	0.6	30.1	<0.01	0.05	2.3
ZZ31612		0.31	41.4	1030	21.6	6.9	0.001	0.08	1.65	3.6	1.8	0.4	41.2	<0.01	0.06	1.0
ZZ31613		0.30	53.5	890	18.4	7.2	0.003	0.04	2.29	5.5	2.1	0.5	65.0	<0.01	0.07	3.6
ZZ31614		0.31	54.3	870	18.3	7.5	0.006	0.05	2.32	5.4	2.6	0.5	83.7	<0.01	0.05	3.2
ZZ31615		0.32	53.0	910	18.8	7.3	0.004	0.06	2.46	5.4	2.7	0.5	66.9	<0.01	0.06	3.7
ZZ31616		0.26	86.9	920	17.5	8.1	0.016	0.14	1.62	4.2	4.5	0.5	77.9	<0.01	0.07	1.0
ZZ31617		0.31	122.5	1010	16.3	8.2	0.010	0.08	1.46	4.6	4.0	0.4	56.3	<0.01	0.08	1.8
ZZ31618		0.34	52.4	930	14.9	7.0	0.012	0.13	1.30	4.0	4.9	0.4	64.8	<0.01	0.06	1.1
ZZ31619		0.38	42.6	880	16.5	7.5	0.011	0.14	1.65	3.7	5.3	0.5	67.2	<0.01	0.05	1.2
ZZ31620		0.39	41.9	850	16.9	6.9	0.012	0.11	1.47	3.9	4.6	0.5	63.0	<0.01	0.04	1.4
ZZ31621		0.40	42.0	850	18.1	7.6	0.007	0.10	2.08	4.3	3.8	0.5	54.2	<0.01	0.06	1.6
ZZ31622		0.41	37.8	840	19.9	8.1	0.013	0.11	2.23	4.2	4.6	0.5	58.3	<0.01	0.05	1.8
ZZ31623		0.36	41.3	850	14.5	7.8	0.029	0.30	3.09	2.3	13.8	0.4	95.9	<0.01	0.05	0.8
ZZ31624		0.38	49.3	760	15.6	5.9	0.017	0.36	4.15	2.5	15.4	0.3	104.0	<0.01	0.05	0.8
ZZ31625		0.33	47.5	860	10.7	5.6	0.027	0.37	4.88	1.9	18.3	0.3	115.5	<0.01	0.04	0.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31586		<0.005	0.70	1.93	31	0.05	17.90	243	<0.5
ZZ31587		<0.005	1.04	1.16	37	0.07	7.21	155	<0.5
ZZ31588		<0.005	0.78	1.43	31	0.05	9.29	52	<0.5
ZZ31589		<0.005	0.97	2.79	41	0.07	35.1	393	1.6
ZZ31590		<0.005	0.75	2.37	37	0.09	23.0	273	1.2
ZZ31591		0.006	0.72	1.42	54	0.13	14.75	364	1.7
ZZ31592		0.005	0.69	1.77	57	0.11	16.45	334	2.0
ZZ31593		<0.005	0.52	1.72	54	0.09	15.90	273	2.1
ZZ31594		<0.005	0.50	1.74	56	0.09	14.75	255	1.9
ZZ31595		0.006	0.36	1.73	62	0.14	16.35	246	1.6
ZZ31596		0.006	0.17	1.50	59	0.19	16.45	200	1.3
ZZ31597		0.006	0.19	1.41	65	0.09	18.20	210	1.2
ZZ31598		0.007	0.19	1.16	58	0.06	16.05	202	1.5
ZZ31599		<0.005	0.21	1.58	59	0.07	16.05	198	1.5
ZZ31600		<0.005	0.17	0.97	46	<0.05	15.35	189	1.5
ZZ31601		<0.005	0.17	1.15	43	0.05	15.70	176	1.6
ZZ31602		<0.005	0.11	1.67	25	<0.05	11.25	125	1.6
ZZ31603		<0.005	0.14	1.61	30	<0.05	12.50	144	1.6
ZZ31604		<0.005	0.18	1.11	36	0.07	16.50	174	1.7
ZZ31605		<0.005	0.18	0.89	38	0.05	16.60	186	1.7
ZZ31606		<0.005	0.15	1.01	32	<0.05	14.90	164	1.6
ZZ31607		<0.005	0.14	1.38	32	<0.05	15.75	161	1.6
ZZ31608		<0.005	0.14	1.80	34	0.07	13.20	152	1.5
ZZ31609		<0.005	0.14	2.14	25	<0.05	13.55	117	1.6
ZZ31610		<0.005	0.23	1.89	39	0.07	16.20	188	1.4
ZZ31611		0.006	0.28	1.52	52	0.09	15.40	213	1.5
ZZ31612		0.007	0.30	2.12	52	0.11	12.60	223	1.3
ZZ31613		0.009	0.35	1.48	80	0.08	14.80	255	2.0
ZZ31614		0.008	0.33	1.64	72	0.07	15.30	249	1.9
ZZ31615		0.009	0.32	1.59	82	0.57	15.45	264	2.1
ZZ31616		<0.005	0.33	2.87	63	0.08	20.3	251	2.0
ZZ31617		0.006	0.36	2.72	55	0.09	14.90	412	1.8
ZZ31618		0.005	0.24	2.24	46	0.09	14.80	231	2.1
ZZ31619		0.006	0.23	3.23	45	0.10	11.50	182	1.8
ZZ31620		0.006	0.23	1.96	49	0.11	11.75	183	1.6
ZZ31621		0.008	0.28	3.09	53	0.09	13.30	180	1.4
ZZ31622		0.008	0.29	2.47	48	0.17	13.40	166	1.8
ZZ31623		0.007	0.22	10.85	34	0.09	7.84	126	1.7
ZZ31624		0.008	0.26	14.40	39	0.08	8.16	102	1.6
ZZ31625		0.008	0.22	19.90	42	0.07	6.29	86	1.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31626		0.10	0.006	0.28	0.54	36.4	<0.2	10	220	0.40	0.13	3.63	0.62	9.57	4.5	11
ZZ31627		0.12	0.005	0.39	0.57	47.7	<0.2	20	180	0.45	0.13	3.80	1.43	9.60	5.9	13
ZZ31628		0.14	0.003	0.49	0.72	37.8	<0.2	20	260	0.87	0.16	3.55	1.27	12.90	8.5	16
ZZ31629		0.12	0.004	0.38	0.86	69.0	<0.2	10	290	0.82	0.18	2.68	1.04	13.05	8.9	19
ZZ31630		0.12	NSS	0.44	0.49	31.4	<0.2	10	260	0.66	0.10	2.69	0.95	7.64	5.6	12
ZZ31631		0.11	0.007	0.67	0.76	55.0	<0.2	10	390	0.90	0.17	2.53	1.24	13.25	9.4	18
ZZ31632		0.12	0.007	1.03	0.83	75.4	<0.2	10	550	0.86	0.18	2.29	1.36	12.00	8.9	21
ZZ31633		0.08	NSS	1.04	0.54	136.0	<0.2	10	200	0.50	0.12	3.87	1.84	6.50	5.0	23
ZZ31634		0.08	NSS	0.74	0.31	17.9	<0.2	20	190	0.28	0.07	4.74	8.82	2.92	1.6	13
ZZ31635		0.12	0.025	1.56	0.71	360	<0.2	10	500	0.78	0.21	2.15	1.33	11.60	6.2	14
ZZ31636		0.09	0.013	1.59	0.48	305	<0.2	10	740	0.55	0.16	2.57	1.96	5.42	3.3	9
ZZ31637		0.22	0.017	2.81	0.68	1810	<0.2	<10	610	1.90	0.31	0.81	2.72	10.60	17.8	16
ZZ31638		0.19	0.008	1.12	0.81	233	<0.2	<10	670	0.77	0.27	0.87	2.02	10.40	7.0	15
ZZ31639		0.19	0.015	0.99	0.77	255	<0.2	<10	570	0.93	0.25	0.47	1.07	17.20	9.2	15
ZZ31640		0.21	0.003	1.06	0.43	74.6	<0.2	<10	290	0.22	0.25	0.04	0.39	11.50	1.9	15
ZZ31641		0.20	0.003	1.55	0.75	255	<0.2	<10	330	0.35	0.30	0.02	0.23	11.40	4.8	16
ZZ31642		0.17	0.011	0.25	2.74	15.1	<0.2	<10	340	1.71	0.26	0.48	0.68	41.6	36.2	37
ZZ31643		0.14	NSS	0.25	1.89	11.3	<0.2	<10	240	0.94	0.22	1.17	0.62	20.8	22.5	27
ZZ31644		0.16	0.007	0.19	2.17	15.9	<0.2	10	230	1.04	0.25	1.54	0.51	16.30	30.4	33
ZZ31645		0.15	0.010	0.18	2.19	11.9	<0.2	10	1100	1.03	0.26	0.86	0.40	23.0	31.0	39
ZZ31646		0.18	NSS	0.27	1.69	6.7	<0.2	10	380	0.91	0.19	1.84	0.38	21.5	21.2	29
ZZ31647		0.12	0.016	0.26	1.54	5.9	<0.2	10	350	1.03	0.19	1.84	0.42	16.15	15.4	24
ZZ31648		0.20	0.006	0.17	1.74	14.4	<0.2	<10	280	1.20	0.33	0.52	0.42	24.1	23.4	26
ZZ31649		0.19	0.009	0.16	1.80	18.8	<0.2	10	310	1.09	0.26	0.79	0.27	25.9	28.2	30
ZZ31650		0.13	0.012	0.18	1.41	30.0	<0.2	<10	220	0.82	0.23	1.54	0.28	16.35	15.7	22
ZZ31651		0.20	0.004	0.13	1.80	16.7	<0.2	<10	160	0.96	0.28	0.70	0.18	24.2	22.3	27
ZZ31652		0.18	0.005	0.53	1.78	16.3	<0.2	<10	110	0.98	0.29	0.64	0.21	26.5	22.5	27
ZZ31653		0.25	0.004	0.22	1.91	15.4	<0.2	<10	120	1.00	0.31	0.57	0.24	28.8	25.7	29
ZZ31654		0.21	0.003	0.20	1.94	13.5	<0.2	<10	130	1.10	0.28	0.72	0.30	26.5	23.0	28
ZZ31655		0.18	0.004	0.11	1.83	18.1	<0.2	<10	120	0.96	0.27	0.68	0.39	24.1	23.8	28
ZZ31656		0.15	0.005	0.11	1.38	14.5	<0.2	10	100	0.85	0.23	2.09	0.36	17.20	16.1	20
ZZ31657		0.17	0.002	0.14	1.50	20.2	<0.2	<10	120	0.81	0.25	0.90	0.25	20.9	16.0	23
ZZ31658		0.15	0.005	0.11	1.41	22.5	<0.2	<10	150	0.87	0.28	1.33	0.32	18.10	17.9	21
ZZ31659		0.23	0.004	0.10	1.97	22.1	<0.2	<10	120	0.96	0.32	0.55	0.48	22.6	23.1	30
ZZ31660		0.16	0.004	0.08	1.47	14.7	<0.2	<10	140	0.60	0.26	1.34	0.42	18.55	17.4	23
ZZ31661		0.19	0.003	0.04	2.19	13.9	<0.2	<10	160	0.78	0.29	0.06	0.12	27.7	15.3	29
ZZ31662		0.11	0.005	0.13	1.89	25.6	<0.2	<10	160	0.90	0.29	1.02	0.35	24.1	21.0	29
ZZ31663		0.17	0.014	0.08	1.62	19.4	<0.2	<10	130	0.74	0.26	1.19	0.33	22.9	17.2	24
ZZ31664		0.29	0.003	0.07	2.12	16.6	<0.2	<10	130	1.05	0.33	3.42	0.19	26.7	22.3	27
ZZ31665		0.14	0.005	0.16	1.42	33.0	<0.2	<10	170	0.79	0.28	0.87	0.35	18.70	14.8	22

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ZZ31626	0.58	14.6	1.19	1.65	0.06	0.06	0.38	0.016	0.03	4.6	6.5	0.19	318	1.99	0.01	
ZZ31627	0.71	24.2	1.29	1.65	0.07	0.05	0.47	0.020	0.03	4.7	6.7	0.22	370	1.79	0.01	
ZZ31628	0.89	44.1	1.87	2.27	0.06	0.06	0.55	0.029	0.05	6.3	10.0	0.50	551	2.48	<0.01	
ZZ31629	0.87	38.0	2.29	2.39	0.06	0.05	0.63	0.025	0.04	6.2	11.1	0.37	545	2.84	<0.01	
ZZ31630	0.60	38.9	1.45	1.46	<0.05	0.03	0.47	0.018	0.03	3.9	5.8	0.19	291	2.87	<0.01	
ZZ31631	1.31	50.3	2.36	2.48	0.06	0.05	0.76	0.032	0.05	6.6	9.6	0.30	464	4.55	<0.01	
ZZ31632	2.22	60.0	2.27	2.61	0.05	0.06	1.28	0.031	0.06	6.1	10.1	0.36	308	3.45	<0.01	
ZZ31633	4.37	58.3	2.65	2.92	0.06	0.05	1.80	0.037	0.03	3.0	3.8	0.12	301	11.70	<0.01	
ZZ31634	3.93	38.4	0.84	1.49	0.05	0.05	1.44	0.013	0.03	1.4	2.1	0.10	104	4.70	0.01	
ZZ31635	4.04	42.6	1.75	2.24	<0.05	0.06	2.52	0.034	0.07	5.2	6.2	0.24	342	1.62	<0.01	
ZZ31636	4.48	43.2	1.35	1.60	<0.05	0.08	1.38	0.027	0.06	2.4	2.5	0.17	131	1.68	0.01	
ZZ31637	6.71	109.5	3.88	1.87	0.07	0.06	2.45	0.074	0.10	4.3	4.3	0.09	393	8.18	<0.01	
ZZ31638	4.40	32.0	2.23	3.01	<0.05	0.05	1.22	0.039	0.07	4.4	10.2	0.14	138	5.75	<0.01	
ZZ31639	5.38	55.9	2.30	2.54	0.06	0.04	1.64	0.038	0.08	7.7	7.6	0.19	238	4.05	<0.01	
ZZ31640	3.07	20.2	1.10	2.81	<0.05	<0.02	0.53	0.021	0.07	5.9	0.8	0.02	28	3.60	<0.01	
ZZ31641	4.32	33.2	2.56	4.64	<0.05	<0.02	2.22	0.033	0.09	5.5	4.9	0.10	92	5.71	<0.01	
ZZ31642	5.10	182.5	5.35	8.15	0.12	0.08	0.09	0.082	0.08	16.2	48.0	1.19	1680	0.88	0.01	
ZZ31643	4.02	106.5	4.52	6.30	0.07	0.04	0.17	0.053	0.06	9.5	26.2	0.58	1360	0.74	0.01	
ZZ31644	3.46	148.5	5.30	7.32	0.06	0.06	0.27	0.056	0.08	5.0	33.2	1.16	1030	1.05	<0.01	
ZZ31645	2.59	126.5	6.08	7.56	0.09	0.05	0.34	0.071	0.07	6.8	34.6	1.23	1380	0.60	<0.01	
ZZ31646	2.73	111.0	3.66	5.51	0.08	0.04	0.92	0.051	0.06	9.0	24.4	0.94	1220	0.45	0.01	
ZZ31647	9.76	103.5	3.55	5.15	0.11	0.04	0.30	0.049	0.05	11.0	16.5	0.46	1600	0.62	0.01	
ZZ31648	4.65	82.1	4.48	5.29	0.07	0.08	0.24	0.042	0.09	10.0	35.0	0.77	1020	1.82	<0.01	
ZZ31649	2.52	97.6	4.97	5.64	0.06	0.09	0.70	0.043	0.11	9.8	37.3	0.91	991	0.75	<0.01	
ZZ31650	1.71	53.5	3.34	4.17	0.05	0.06	0.17	0.033	0.07	7.3	23.1	0.62	621	0.87	0.01	
ZZ31651	1.34	83.8	4.57	5.55	0.06	0.10	0.13	0.038	0.09	11.4	37.1	0.81	635	0.70	<0.01	
ZZ31652	1.24	85.1	4.71	5.33	0.07	0.10	0.14	0.037	0.10	11.6	36.1	0.90	746	0.72	<0.01	
ZZ31653	1.61	84.6	4.70	5.80	0.08	0.13	0.16	0.034	0.12	12.4	46.5	1.02	914	0.64	<0.01	
ZZ31654	1.52	80.4	4.36	5.98	0.07	0.11	0.15	0.038	0.12	12.3	46.9	0.89	744	0.69	<0.01	
ZZ31655	1.48	81.2	4.51	5.69	0.07	0.08	0.10	0.040	0.09	9.7	35.7	0.94	722	0.95	<0.01	
ZZ31656	1.29	56.3	3.54	4.33	0.05	0.09	0.11	0.034	0.08	7.2	30.0	0.84	365	0.78	0.01	
ZZ31657	1.59	50.7	3.56	4.59	0.06	0.07	0.13	0.036	0.08	9.6	30.2	0.74	339	0.86	0.01	
ZZ31658	0.75	60.1	4.10	4.63	0.09	0.06	0.12	0.038	0.07	7.6	28.2	0.71	778	1.01	<0.01	
ZZ31659	1.12	97.9	5.30	6.66	0.13	0.07	0.09	0.049	0.08	9.3	36.9	1.10	833	1.08	<0.01	
ZZ31660	0.83	48.6	4.21	5.26	0.08	0.05	0.07	0.037	0.06	7.9	32.9	0.60	659	0.81	<0.01	
ZZ31661	1.39	36.8	4.75	7.16	0.09	0.08	0.03	0.046	0.07	12.7	41.9	0.58	343	1.08	<0.01	
ZZ31662	1.97	79.1	4.86	6.09	0.12	0.10	0.18	0.046	0.15	10.7	42.5	0.97	847	0.87	0.01	
ZZ31663	1.17	56.2	4.06	5.23	0.11	0.11	0.12	0.035	0.11	10.8	41.0	0.84	652	0.73	<0.01	
ZZ31664	1.66	63.3	4.66	6.84	0.11	0.17	0.13	0.040	0.19	12.3	59.5	1.04	871	0.62	0.01	
ZZ31665	1.17	36.8	3.53	4.58	0.09	0.10	0.15	0.035	0.10	8.6	36.3	0.58	416	1.14	<0.01	

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ31626		0.32	40.6	580	11.6	6.2	0.012	0.41	3.55	2.5	15.3	0.3	110.0	<0.01	0.03	1.1
ZZ31627		0.28	77.8	800	12.1	5.8	0.014	0.43	4.65	2.0	13.6	0.3	113.5	<0.01	0.04	0.6
ZZ31628		0.34	63.6	810	14.9	7.1	0.014	0.29	3.82	3.2	7.8	0.3	103.5	<0.01	0.04	0.9
ZZ31629		0.35	67.8	860	18.0	6.0	0.019	0.20	3.78	3.6	7.6	0.4	83.7	<0.01	0.03	1.0
ZZ31630		0.21	35.8	550	10.7	4.7	0.011	0.15	2.49	2.1	5.7	0.3	85.1	<0.01	0.02	0.4
ZZ31631		0.33	52.9	650	17.1	7.0	0.020	0.16	4.43	4.4	6.7	0.4	80.8	<0.01	0.04	1.1
ZZ31632		0.34	85.1	800	18.4	7.8	0.018	0.20	4.59	4.4	5.7	0.4	77.7	<0.01	0.07	1.5
ZZ31633		0.31	106.5	870	10.9	7.1	0.045	0.44	6.30	2.6	12.6	0.3	87.4	<0.01	0.04	0.5
ZZ31634		0.17	226	750	5.6	6.0	0.025	0.68	5.34	1.2	9.2	0.3	110.0	<0.01	0.03	0.4
ZZ31635		0.32	30.3	630	21.9	9.3	0.012	0.15	2.67	3.5	5.7	0.4	85.2	<0.01	0.05	1.6
ZZ31636		0.19	25.7	790	16.8	8.7	0.010	0.19	2.76	2.6	7.0	0.4	122.0	<0.01	0.06	0.9
ZZ31637		0.16	74.4	980	43.7	10.0	0.009	0.17	6.38	5.9	8.3	0.5	95.1	<0.01	0.13	2.6
ZZ31638		0.38	39.1	590	22.7	11.9	0.006	0.09	3.64	2.4	5.2	0.5	71.8	<0.01	0.07	1.4
ZZ31639		0.32	33.3	780	24.4	10.3	0.002	0.04	2.95	4.5	4.3	0.5	28.2	<0.01	0.08	3.3
ZZ31640		0.23	14.9	580	23.2	9.6	0.001	0.05	1.58	0.9	2.2	0.7	25.0	<0.01	0.07	0.3
ZZ31641		0.44	21.9	520	26.2	15.8	<0.001	0.10	3.42	2.1	2.0	0.7	36.7	<0.01	0.12	2.0
ZZ31642		0.28	41.9	970	16.2	8.0	<0.001	0.06	0.62	26.9	2.2	0.5	21.7	<0.01	0.15	1.9
ZZ31643		0.24	27.6	930	12.2	8.1	0.001	0.09	0.42	12.5	1.6	0.5	24.1	<0.01	0.13	1.0
ZZ31644		0.22	44.3	490	13.4	8.5	0.001	0.07	0.55	13.3	1.2	0.6	35.1	<0.01	0.20	1.6
ZZ31645		0.25	48.2	500	9.9	5.8	0.001	0.07	0.32	24.0	1.5	0.6	48.3	<0.01	0.24	2.1
ZZ31646		0.25	37.5	770	9.9	6.6	<0.001	0.10	0.34	17.6	2.7	0.5	33.2	<0.01	0.14	0.8
ZZ31647		0.29	18.8	1340	10.6	8.0	<0.001	0.14	0.36	10.8	3.5	0.4	39.2	<0.01	0.13	0.7
ZZ31648		0.22	36.3	380	18.0	7.6	0.001	0.03	0.48	10.7	1.3	0.4	17.4	<0.01	0.09	3.5
ZZ31649		0.13	42.9	430	15.6	7.5	0.001	0.06	0.57	12.2	1.6	0.4	23.4	<0.01	0.11	2.4
ZZ31650		0.28	25.2	760	13.5	8.6	0.001	0.09	0.60	5.9	1.7	0.4	80.7	<0.01	0.06	1.0
ZZ31651		0.13	34.9	360	16.2	7.1	0.001	0.04	0.56	9.3	1.3	0.4	32.9	<0.01	0.09	3.1
ZZ31652		0.11	38.7	460	17.6	5.6	<0.001	0.05	0.56	9.7	0.8	0.4	30.4	<0.01	0.11	4.0
ZZ31653		0.09	40.3	590	18.9	6.0	0.001	0.03	0.61	9.3	0.9	0.3	32.8	<0.01	0.09	5.2
ZZ31654		0.15	40.2	600	15.4	7.5	0.001	0.04	0.56	9.8	1.1	0.4	39.3	<0.01	0.09	3.6
ZZ31655		0.14	37.0	450	17.0	6.4	<0.001	0.05	0.57	10.6	1.4	0.4	51.0	<0.01	0.12	2.7
ZZ31656		0.17	28.4	550	14.3	7.4	0.003	0.12	0.52	7.4	1.5	0.4	108.5	<0.01	0.08	2.1
ZZ31657		0.32	27.8	520	15.7	7.4	0.003	0.07	0.61	7.4	1.7	0.3	71.9	<0.01	0.09	2.2
ZZ31658		0.34	31.2	500	18.6	6.5	0.001	0.05	0.69	7.5	1.5	0.4	58.7	<0.01	0.07	2.2
ZZ31659		0.24	39.1	420	27.2	7.1	0.001	0.02	0.63	10.6	1.4	0.4	24.9	<0.01	0.11	3.2
ZZ31660		0.30	26.1	630	16.1	8.1	<0.001	0.04	0.55	4.7	1.1	0.4	56.1	<0.01	0.07	1.5
ZZ31661		0.78	28.8	270	18.2	12.8	<0.001	<0.01	0.44	4.6	0.4	0.6	8.8	<0.01	0.06	4.4
ZZ31662		0.29	39.3	630	16.4	9.7	0.001	0.04	0.61	9.5	1.8	0.4	49.2	<0.01	0.09	3.2
ZZ31663		0.26	32.5	630	17.5	7.6	0.001	0.04	0.54	7.0	1.7	0.4	56.9	<0.01	0.06	3.3
ZZ31664		0.09	40.8	520	19.5	9.6	<0.001	<0.01	0.44	8.6	0.6	0.4	129.0	<0.01	0.06	6.8
ZZ31665		0.22	29.3	670	18.7	8.1	<0.001	0.03	0.54	5.8	1.1	0.4	53.4	<0.01	0.06	3.3

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31626		0.008	0.19	24.2	30	0.06	6.45	82	1.8
ZZ31627		0.007	0.33	14.55	47	0.16	8.24	129	1.5
ZZ31628		0.007	0.35	8.67	35	0.07	13.95	173	1.6
ZZ31629		0.007	0.43	8.31	61	0.11	14.10	204	1.5
ZZ31630		<0.005	0.21	11.75	24	0.05	11.20	118	1.1
ZZ31631		0.007	0.39	8.49	47	0.07	16.55	137	1.6
ZZ31632		0.007	0.80	7.25	59	0.12	16.60	193	2.1
ZZ31633		0.007	2.41	16.75	85	0.09	9.48	80	1.5
ZZ31634		0.005	2.57	28.0	32	0.06	2.70	161	1.6
ZZ31635		0.005	0.92	2.57	48	0.32	7.73	124	2.0
ZZ31636		<0.005	0.94	2.00	35	0.28	4.15	99	2.2
ZZ31637		<0.005	1.70	2.85	77	0.89	11.95	431	1.7
ZZ31638		0.007	0.96	1.32	52	0.32	4.20	184	1.2
ZZ31639		0.008	0.63	2.34	44	0.35	11.55	168	1.2
ZZ31640		0.009	0.55	0.72	48	0.26	2.64	73	<0.5
ZZ31641		0.008	1.26	0.59	88	0.34	3.10	105	<0.5
ZZ31642		0.011	0.14	0.53	68	0.06	30.4	81	1.8
ZZ31643		0.007	0.11	0.40	66	0.05	18.10	48	0.8
ZZ31644		0.007	0.09	0.48	68	<0.05	8.97	84	1.9
ZZ31645		0.011	0.08	0.41	87	0.05	14.05	91	1.3
ZZ31646		0.009	0.10	0.66	55	0.05	23.6	63	0.9
ZZ31647		0.010	0.15	0.87	47	0.06	29.7	61	0.8
ZZ31648		0.007	0.10	0.60	41	0.06	13.40	73	2.3
ZZ31649		0.005	0.11	0.57	56	<0.05	12.90	78	2.5
ZZ31650		0.008	0.10	2.55	37	0.07	10.20	76	1.3
ZZ31651		0.005	0.08	0.67	46	<0.05	9.72	81	2.9
ZZ31652		<0.005	0.08	0.50	45	<0.05	10.00	85	3.1
ZZ31653		0.005	0.08	0.46	42	<0.05	9.83	93	5.2
ZZ31654		0.005	0.07	0.68	41	<0.05	11.65	90	3.6
ZZ31655		0.005	0.09	0.58	45	<0.05	11.15	77	2.2
ZZ31656		0.006	0.07	0.39	32	<0.05	9.23	75	2.4
ZZ31657		0.010	0.08	0.81	39	0.06	9.62	84	2.1
ZZ31658		0.008	0.09	0.81	34	0.07	8.85	70	2.1
ZZ31659		0.006	0.11	0.76	51	<0.05	10.00	89	2.1
ZZ31660		0.007	0.07	0.95	39	0.05	5.70	87	1.4
ZZ31661		0.011	0.13	0.55	58	0.10	3.15	56	3.7
ZZ31662		0.007	0.12	1.02	47	0.08	10.15	104	3.2
ZZ31663		0.006	0.08	1.15	35	0.05	10.40	85	3.8
ZZ31664		<0.005	0.09	0.70	35	<0.05	9.67	95	8.8
ZZ31665		<0.005	0.11	1.42	33	0.06	9.62	125	3.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31666		0.18	0.004	0.23	1.20	46.1	<0.2	<10	190	0.87	0.31	0.72	0.41	20.3	18.0	21
ZZ31667		0.17	0.003	0.21	1.03	34.0	<0.2	<10	360	0.73	0.26	0.59	0.48	17.65	15.4	18
ZZ31668		0.14	0.005	0.07	1.88	16.8	<0.2	<10	190	0.82	0.30	0.35	0.35	23.4	18.4	29
ZZ31669		0.11	0.009	0.12	1.67	24.7	<0.2	10	180	0.83	0.25	1.79	0.44	19.75	19.6	25
ZZ31670		0.10	0.010	0.14	1.82	24.7	<0.2	10	250	0.88	0.31	1.14	0.62	24.5	26.7	28
ZZ31671		0.10	NSS	0.14	1.60	20.1	<0.2	<10	240	0.98	0.25	1.48	0.72	17.65	13.9	23
ZZ31672		0.12	0.006	0.11	1.59	14.3	<0.2	<10	160	0.86	0.25	1.19	0.30	16.65	17.5	23
ZZ31673		0.19	0.006	0.13	1.59	12.8	<0.2	<10	190	0.75	0.24	1.67	0.32	16.85	17.6	23
ZZ31674		0.19	0.005	0.10	1.59	11.9	<0.2	<10	150	0.81	0.24	1.61	0.21	20.3	16.6	22
ZZ31675		0.13	0.005	0.13	1.35	10.2	<0.2	<10	190	0.70	0.21	1.93	0.33	17.00	13.4	21
ZZ31676		0.19	0.001	0.06	1.38	12.4	<0.2	<10	170	0.56	0.25	1.27	0.25	18.30	13.9	23
ZZ31677		0.17	0.002	0.13	1.45	19.0	<0.2	<10	140	0.94	0.25	1.29	0.23	19.00	15.3	21
ZZ31678		0.10	NSS	0.09	0.78	6.5	<0.2	<10	120	0.55	0.13	3.03	0.34	9.86	7.8	11
ZZ31679		0.23	0.003	0.12	1.62	10.8	<0.2	<10	210	0.83	0.24	1.44	0.30	19.55	16.9	23
ZZ31680		0.06	0.006	0.10	0.84	4.8	<0.2	<10	460	0.42	0.12	2.31	0.29	10.65	6.1	12
ZZ31681		0.25	0.005	1.03	1.13	227	<0.2	<10	480	0.52	0.28	0.07	0.53	16.00	6.7	20
ZZ31682		0.24	0.001	0.81	0.37	216	<0.2	<10	430	0.19	0.31	0.01	0.09	7.02	1.9	11
ZZ31683		0.22	0.004	2.22	0.38	161.0	<0.2	<10	1260	0.20	0.27	0.01	0.13	9.05	1.3	13
ZZ31684		0.25	0.004	1.38	0.40	232	<0.2	<10	510	0.30	0.32	0.01	0.12	8.92	2.0	14
ZZ31685		0.24	0.003	0.57	0.39	79.8	<0.2	<10	460	0.21	0.22	0.01	0.17	5.92	2.2	12
ZZ31686		0.23	0.021	2.81	1.92	460	<0.2	<10	860	2.06	0.30	0.79	3.70	16.55	5.9	38
ZZ31687		0.16	0.010	1.96	0.34	145.5	<0.2	<10	710	0.28	0.19	0.58	2.52	6.50	1.6	14
ZZ31688		0.20	0.009	1.05	0.80	182.0	<0.2	<10	640	0.63	0.19	0.44	2.80	14.10	6.1	16
ZZ31689		0.12	0.015	1.96	0.68	492	<0.2	<10	1080	1.01	0.13	2.44	7.79	8.91	6.9	17
ZZ31690		0.17	0.022	2.44	2.09	1805	<0.2	<10	600	3.38	0.26	1.16	8.66	20.0	12.4	47
ZZ31691		0.16	0.015	1.33	0.62	267	<0.2	<10	580	0.70	0.24	1.91	0.88	7.76	3.0	15
ZZ31692		0.13	NSS	0.50	0.37	181.0	<0.2	10	340	0.74	0.06	5.85	3.93	5.78	4.2	7
ZZ31693		0.14	NSS	0.55	0.51	172.5	<0.2	<10	330	0.64	0.07	5.32	2.86	5.81	4.0	9
ZZ31694		0.18	0.027	1.17	2.07	1445	<0.2	10	360	2.19	0.14	3.30	10.95	15.85	12.0	40
ZZ31695		0.11	NSS	2.52	0.89	349	<0.2	10	330	0.85	0.16	3.00	7.42	8.29	4.3	21
ZZ31696		0.11	NSS	0.30	0.37	35.2	<0.2	10	160	0.25	0.06	5.10	4.51	3.60	3.2	3
ZZ31697		0.25	0.016	1.66	0.42	774	<0.2	<10	420	0.55	0.24	0.60	1.18	7.11	2.5	23
ZZ31698		0.12	NSS	1.16	0.65	220	<0.2	10	380	0.60	0.09	3.66	5.38	6.03	4.5	12
ZZ31699		0.08	NSS	0.81	0.52	188.5	<0.2	10	320	0.75	0.08	3.46	5.26	6.36	6.9	11
ZZ31700		0.10	0.012	0.56	0.48	115.5	<0.2	10	340	0.62	0.06	4.18	3.79	5.20	3.9	8
ZZ31701		0.13	0.012	0.93	0.84	303	<0.2	10	370	1.07	0.12	3.74	4.22	11.30	6.9	16
ZZ31702		0.11	0.012	0.93	0.68	214	<0.2	<10	270	1.06	0.11	7.48	3.91	10.65	6.6	12
ZZ31703		0.15	0.006	0.80	1.53	264	<0.2	<10	230	1.46	0.23	1.88	1.97	24.0	7.6	26
ZZ31704		0.16	0.004	0.62	1.55	176.5	<0.2	<10	230	1.58	0.21	2.82	1.29	24.3	9.6	25
ZZ31705		0.14	0.004	1.04	1.38	144.0	<0.2	<10	220	1.41	0.20	5.80	0.94	24.7	8.1	24

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ31666		1.46	45.0	3.97	4.05	0.10	0.09	0.19	0.036	0.07	9.1	35.2	0.58	676	1.52	<0.01
ZZ31667		1.24	41.9	3.48	3.44	0.10	0.06	0.12	0.030	0.07	8.0	33.5	0.67	531	1.70	<0.01
ZZ31668		1.46	48.9	4.73	6.14	0.09	0.06	0.06	0.047	0.13	10.9	37.3	0.60	966	1.17	<0.01
ZZ31669		1.50	70.6	4.29	5.23	0.10	0.09	0.16	0.041	0.12	8.5	34.4	0.94	908	0.85	0.01
ZZ31670		1.50	84.1	5.21	6.04	0.13	0.08	0.17	0.046	0.13	11.3	40.5	1.00	2930	0.94	0.01
ZZ31671		2.06	86.2	2.97	4.91	0.10	0.09	0.16	0.034	0.09	8.3	33.8	0.78	508	0.74	<0.01
ZZ31672		2.07	70.1	4.06	4.91	0.10	0.07	0.14	0.036	0.09	7.7	33.7	0.77	392	1.19	<0.01
ZZ31673		1.65	69.9	3.91	4.99	0.09	0.07	0.13	0.034	0.09	7.7	34.3	0.83	604	0.76	<0.01
ZZ31674		1.55	64.4	3.84	4.82	0.09	0.08	0.12	0.033	0.10	9.3	37.2	0.79	581	0.70	0.01
ZZ31675		1.47	45.2	2.93	4.38	0.07	0.06	0.09	0.032	0.07	7.5	27.0	0.58	682	0.80	0.01
ZZ31676		0.93	35.1	3.58	5.51	0.07	0.03	0.05	0.035	0.06	8.5	27.5	0.54	434	1.02	<0.01
ZZ31677		0.88	54.5	3.74	4.48	0.09	0.07	0.11	0.040	0.08	9.3	27.2	0.68	605	0.83	0.01
ZZ31678		0.62	44.8	1.80	2.40	0.06	0.04	0.10	0.019	0.04	4.8	14.8	0.50	447	0.61	0.01
ZZ31679		0.87	62.5	3.81	5.00	0.09	0.06	0.13	0.038	0.07	8.8	31.7	0.77	950	0.85	<0.01
ZZ31680		1.22	63.8	1.66	2.81	0.07	0.04	0.18	0.026	0.04	6.1	7.9	0.36	728	0.80	0.01
ZZ31681		3.78	63.2	2.78	5.04	0.07	0.02	0.68	0.036	0.11	8.2	9.5	0.19	195	4.58	<0.01
ZZ31682		4.83	9.0	1.99	2.23	0.05	<0.02	0.20	0.035	0.22	3.5	1.4	0.02	6	7.44	0.01
ZZ31683		3.25	14.9	1.76	2.86	0.05	<0.02	1.62	0.034	0.15	4.5	1.3	0.03	25	5.95	<0.01
ZZ31684		4.23	30.9	2.60	3.84	0.07	0.02	0.17	0.060	0.22	4.1	1.5	0.02	18	7.54	<0.01
ZZ31685		3.86	19.0	1.31	2.60	<0.05	<0.02	0.15	0.022	0.12	3.0	0.8	0.02	19	7.05	<0.01
ZZ31686		3.04	293	3.34	2.88	0.13	0.05	1.48	0.097	0.13	7.6	10.3	0.07	154	14.25	<0.01
ZZ31687		1.96	24.9	1.01	1.71	0.06	0.04	1.91	0.042	0.07	3.1	1.5	0.07	14	6.47	<0.01
ZZ31688		1.61	28.0	1.75	3.23	0.07	0.04	2.69	0.031	0.06	6.8	6.7	0.10	93	8.04	<0.01
ZZ31689		1.46	45.3	2.83	1.90	0.14	0.08	2.33	0.026	0.05	4.2	2.7	0.11	379	11.60	0.01
ZZ31690		2.40	274	5.52	3.76	0.15	0.13	4.73	0.100	0.18	9.2	8.7	0.19	317	8.40	0.01
ZZ31691		2.10	69.6	1.33	2.98	0.07	0.09	1.43	0.042	0.12	3.7	3.0	0.14	139	2.95	0.01
ZZ31692		0.87	34.6	0.91	1.16	0.11	0.04	1.79	0.012	0.02	3.1	2.4	1.06	558	1.67	0.01
ZZ31693		0.60	56.2	0.91	1.34	0.05	0.03	1.24	0.012	0.02	4.4	2.1	0.12	503	1.23	<0.01
ZZ31694		1.20	158.0	3.61	2.95	0.10	0.07	3.87	0.051	0.04	6.7	6.5	0.14	520	3.55	0.01
ZZ31695		2.19	99.9	1.56	2.21	0.07	0.08	3.19	0.031	0.06	4.0	3.8	0.10	263	2.87	<0.01
ZZ31696		0.23	11.9	0.41	0.80	<0.05	0.05	1.03	0.008	0.02	1.7	0.6	0.14	617	0.32	0.01
ZZ31697		2.14	50.0	4.11	2.46	0.06	0.03	3.14	0.044	0.13	4.0	1.9	0.06	71	5.86	<0.01
ZZ31698		1.56	57.4	1.04	1.78	0.06	0.07	1.49	0.019	0.04	2.9	2.9	0.20	366	1.95	0.01
ZZ31699		1.25	70.8	1.48	1.23	0.05	0.05	1.38	0.017	0.03	2.8	2.8	0.22	260	1.44	0.01
ZZ31700		0.84	47.3	0.92	1.17	<0.05	0.04	0.76	0.013	0.02	2.4	3.2	0.22	421	1.17	<0.01
ZZ31701		1.15	72.8	1.88	2.06	0.06	0.04	1.88	0.027	0.04	4.6	5.9	0.27	402	1.47	0.01
ZZ31702		0.98	48.3	1.63	1.85	0.05	0.04	1.75	0.020	0.03	4.7	5.0	2.74	440	1.54	0.01
ZZ31703		1.24	19.9	2.89	4.33	0.06	0.02	1.64	0.031	0.04	10.7	9.2	0.44	586	2.07	<0.01
ZZ31704		0.94	19.3	3.11	4.63	0.05	0.04	1.24	0.034	0.04	13.3	11.8	1.51	596	2.12	<0.01
ZZ31705		0.99	14.0	2.87	4.26	0.06	0.05	4.94	0.033	0.05	12.1	10.8	3.31	555	1.50	0.01

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ31666	0.22	36.7	640	23.4	7.3	0.001	0.04	0.86	5.8	1.6	0.4	42.8	<0.01	0.06	3.2	
ZZ31667	0.14	40.0	700	17.9	5.5	0.001	0.02	0.82	5.0	1.3	0.3	29.8	<0.01	0.06	4.1	
ZZ31668	0.46	29.0	770	19.0	12.2	<0.001	0.02	0.40	6.6	1.1	0.5	26.9	<0.01	0.07	2.7	
ZZ31669	0.30	33.7	710	14.9	10.1	0.001	0.07	0.56	8.1	2.2	0.4	94.4	<0.01	0.08	2.1	
ZZ31670	0.28	41.7	840	16.4	9.6	0.002	0.09	0.53	10.4	6.0	0.4	70.9	0.01	0.10	2.9	
ZZ31671	0.28	33.5	710	21.8	7.3	0.007	0.18	0.94	8.0	9.4	0.3	70.0	<0.01	0.06	1.9	
ZZ31672	0.23	29.4	750	24.8	9.1	0.004	0.09	0.98	6.1	3.5	0.3	45.9	<0.01	0.08	1.2	
ZZ31673	0.26	30.2	680	17.9	7.5	0.001	0.07	0.96	6.4	1.8	0.3	59.7	<0.01	0.09	1.5	
ZZ31674	0.22	29.9	640	16.6	7.5	<0.001	0.06	0.53	6.2	1.6	0.3	64.7	<0.01	0.06	1.7	
ZZ31675	0.51	22.7	870	15.1	9.4	<0.001	0.08	0.50	5.3	1.5	0.3	74.9	<0.01	0.05	0.9	
ZZ31676	0.82	21.6	510	12.8	8.6	<0.001	0.03	0.49	3.8	0.6	0.5	46.3	<0.01	0.06	1.3	
ZZ31677	0.37	28.2	700	15.4	7.3	0.001	0.05	0.56	6.9	1.4	0.4	43.2	0.01	0.06	1.5	
ZZ31678	0.24	16.9	840	7.3	4.8	<0.001	0.14	0.46	2.4	1.7	0.2	94.3	<0.01	0.04	0.4	
ZZ31679	0.28	28.3	880	14.6	9.0	0.001	0.07	0.39	6.3	2.1	0.4	39.5	<0.01	0.07	1.1	
ZZ31680	0.32	11.3	1090	7.8	3.7	<0.001	0.17	0.32	4.8	2.4	0.2	45.8	0.01	0.04	0.3	
ZZ31681	0.69	28.8	540	48.9	18.3	<0.001	0.06	2.04	2.8	1.5	0.7	33.3	<0.01	0.07	2.8	
ZZ31682	0.18	13.8	580	25.1	19.2	<0.001	0.30	2.49	1.1	2.1	0.6	73.9	<0.01	0.13	2.9	
ZZ31683	0.36	8.1	500	304	14.4	0.001	0.22	9.35	1.3	1.8	0.6	95.6	<0.01	0.11	2.4	
ZZ31684	0.19	10.5	630	27.0	19.4	<0.001	0.38	3.59	1.7	2.6	0.6	95.0	<0.01	0.17	3.5	
ZZ31685	0.26	20.7	430	35.2	10.5	0.001	0.11	2.39	1.1	1.3	0.7	47.2	<0.01	0.09	0.6	
ZZ31686	0.22	121.5	2550	70.3	14.6	0.010	0.20	7.28	6.8	7.6	0.7	184.0	0.01	0.15	3.0	
ZZ31687	0.18	13.4	650	25.0	8.3	0.017	0.09	3.17	2.4	7.0	0.4	62.3	<0.01	0.10	1.7	
ZZ31688	0.59	24.9	740	42.4	8.8	0.015	0.06	3.87	2.6	7.5	0.5	38.0	<0.01	0.04	1.9	
ZZ31689	0.31	49.4	1960	31.7	7.0	0.052	0.22	7.23	2.8	22.7	0.3	109.0	0.01	0.05	0.6	
ZZ31690	0.32	102.5	1280	163.5	14.7	0.011	0.31	5.54	12.4	5.9	0.5	111.0	0.02	0.11	4.3	
ZZ31691	0.21	90.0	750	28.9	12.4	0.013	0.16	3.07	3.6	7.0	0.5	93.2	<0.01	0.07	1.6	
ZZ31692	0.23	37.9	1190	22.4	3.0	0.020	0.27	2.94	1.2	21.9	0.2	52.0	<0.01	0.03	0.3	
ZZ31693	0.24	16.3	1520	10.9	2.8	0.004	0.19	1.76	0.8	6.1	0.2	42.5	0.01	0.04	<0.2	
ZZ31694	0.45	107.5	1930	62.1	5.3	0.008	0.19	4.25	3.4	8.4	0.4	29.3	0.01	0.06	0.7	
ZZ31695	0.30	58.9	1600	37.1	8.8	0.046	0.26	3.25	2.3	14.4	0.4	27.2	<0.01	0.03	0.7	
ZZ31696	0.29	8.5	910	26.6	1.4	<0.001	0.17	1.12	0.4	1.2	<0.2	18.9	0.01	0.02	<0.2	
ZZ31697	0.18	17.8	1020	30.0	9.2	0.001	0.16	4.87	2.7	2.9	0.5	54.0	<0.01	0.12	1.3	
ZZ31698	0.30	56.6	1450	17.2	6.7	0.025	0.23	2.30	1.2	11.9	0.3	50.7	<0.01	0.02	0.3	
ZZ31699	0.23	50.9	1080	16.4	5.7	0.042	0.25	1.92	1.6	10.5	0.2	40.9	<0.01	0.03	0.4	
ZZ31700	0.28	42.5	1000	10.2	3.8	0.013	0.22	1.40	0.9	7.3	0.4	48.9	<0.01	<0.01	0.2	
ZZ31701	0.39	52.2	1150	22.9	6.8	0.015	0.19	2.03	1.8	6.6	0.3	52.8	<0.01	0.02	0.4	
ZZ31702	0.35	43.5	890	28.7	5.8	0.007	0.11	1.80	1.7	4.3	0.3	54.3	<0.01	0.03	0.4	
ZZ31703	0.89	26.9	710	45.9	8.3	<0.001	0.07	1.59	2.8	2.0	0.5	21.3	<0.01	0.05	0.7	
ZZ31704	0.59	29.3	720	36.7	8.1	<0.001	0.04	1.27	3.6	1.1	0.6	23.3	<0.01	0.06	1.1	
ZZ31705	0.61	25.2	680	84.1	6.7	<0.001	0.04	2.11	3.6	1.2	0.5	34.1	<0.01	0.02	1.5	

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31666		<0.005	0.13	1.51	30	0.05	11.20	139	3.0
ZZ31667		<0.005	0.12	1.11	28	<0.05	10.15	141	2.4
ZZ31668		0.008	0.09	1.12	50	0.08	7.96	117	1.5
ZZ31669		0.006	0.10	1.38	42	0.06	9.93	101	2.8
ZZ31670		0.006	0.13	0.68	48	0.05	11.60	112	2.4
ZZ31671		0.005	0.10	4.92	37	0.05	10.80	79	2.8
ZZ31672		0.005	0.10	2.11	37	<0.05	9.10	95	1.9
ZZ31673		0.006	0.08	0.90	37	<0.05	8.44	92	2.1
ZZ31674		0.005	0.07	1.04	32	<0.05	9.70	73	2.3
ZZ31675		0.011	0.09	1.34	34	0.07	8.24	78	1.6
ZZ31676		0.019	0.08	0.57	49	0.14	3.89	60	1.0
ZZ31677		0.008	0.10	1.33	34	0.08	13.15	67	1.6
ZZ31678		0.006	0.06	1.04	18	<0.05	7.07	54	1.4
ZZ31679		0.006	0.09	1.86	40	0.06	9.98	83	1.6
ZZ31680		0.012	0.07	0.60	26	0.05	15.00	28	1.1
ZZ31681		0.010	1.29	0.71	95	0.34	3.47	147	0.7
ZZ31682		<0.005	1.21	0.40	91	0.23	1.57	76	0.6
ZZ31683		0.007	1.13	0.67	95	0.46	2.67	43	<0.5
ZZ31684		<0.005	1.01	0.47	114	0.49	1.66	101	0.9
ZZ31685		0.006	0.41	0.38	117	0.41	1.70	142	<0.5
ZZ31686		<0.005	0.91	10.35	229	0.52	14.90	210	1.1
ZZ31687		<0.005	0.71	1.39	45	0.43	4.37	65	1.6
ZZ31688		0.008	0.86	1.77	41	0.34	7.42	246	0.9
ZZ31689		<0.005	0.93	4.45	85	0.34	13.80	295	2.6
ZZ31690		<0.005	2.38	17.70	144	0.54	47.9	778	3.1
ZZ31691		<0.005	1.16	1.88	50	0.33	5.30	95	3.4
ZZ31692		0.005	1.39	14.25	32	0.12	8.63	278	1.5
ZZ31693		0.006	0.34	7.98	30	0.09	13.15	84	0.9
ZZ31694		0.008	0.96	20.5	194	0.25	41.5	822	2.0
ZZ31695		<0.005	1.27	14.90	80	0.18	14.50	259	2.1
ZZ31696		0.010	0.19	2.71	7	0.07	2.22	183	1.5
ZZ31697		<0.005	1.32	2.67	76	0.45	6.75	168	0.9
ZZ31698		0.005	0.74	9.18	47	0.15	8.01	198	1.8
ZZ31699		0.005	0.50	4.83	32	0.09	8.41	189	1.5
ZZ31700		0.007	0.33	5.67	21	0.06	5.51	172	1.2
ZZ31701		0.006	0.55	5.42	56	0.14	13.25	194	1.2
ZZ31702		0.006	0.55	4.40	40	0.17	10.60	237	1.0
ZZ31703		0.020	0.46	2.28	61	0.23	10.10	225	0.6
ZZ31704		0.012	0.33	1.51	62	0.27	12.20	204	0.9
ZZ31705		0.014	0.59	1.78	50	0.28	9.17	220	1.0



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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31706		0.11	0.018	0.26	0.86	67.5	<0.2	<10	710	0.61	0.13	3.70	1.25	12.40	5.5	12
ZZ31707		0.22	0.024	2.05	1.17	247	<0.2	<10	310	1.79	0.18	3.75	2.07	20.5	8.1	31
ZZ31708		0.11	NSS	0.73	1.61	205	<0.2	<10	590	1.25	0.23	1.49	2.92	23.4	9.3	26
ZZ31709		0.13	0.005	0.89	1.62	262	<0.2	<10	820	1.72	0.22	5.55	3.34	28.7	15.9	24
ZZ31710		0.18	0.007	1.14	0.77	362	<0.2	<10	110	0.96	0.10	13.65	1.66	10.40	13.4	13
ZZ31711		0.12	0.028	1.81	0.65	334	<0.2	10	330	0.66	0.09	4.63	8.74	8.53	8.4	13
ZZ31712		0.09	0.013	1.31	0.74	337	<0.2	10	460	0.87	0.12	3.02	11.60	9.32	8.0	19
ZZ31713		0.14	0.012	1.81	0.74	151.5	<0.2	10	510	0.84	0.14	2.83	8.08	10.15	7.3	24
ZZ31714		0.16	0.007	1.90	0.60	91.8	<0.2	10	800	0.74	0.13	1.87	5.66	7.29	4.6	25
ZZ31715		0.10	0.008	1.85	0.54	135.0	<0.2	10	820	0.61	0.12	2.21	8.10	5.96	10.8	25
ZZ31716		0.15	0.010	2.34	0.52	130.0	<0.2	10	890	0.63	0.14	1.57	5.19	6.11	4.9	26
ZZ31717		0.15	0.007	2.02	0.55	90.6	<0.2	10	940	0.66	0.14	1.66	3.78	5.89	5.6	29
ZZ31718		0.15	0.006	2.13	0.55	72.6	<0.2	10	1190	0.66	0.14	1.46	3.75	5.46	5.4	29
ZZ31719		0.14	0.007	1.57	0.48	76.4	<0.2	10	1070	0.66	0.14	1.89	2.64	5.08	5.8	25
ZZ31720		0.11	0.005	1.08	0.51	54.4	<0.2	10	1090	0.61	0.14	1.30	0.95	4.57	4.9	22
ZZ31721		0.15	0.006	2.21	0.53	68.0	<0.2	10	1280	0.72	0.15	1.66	1.11	5.50	5.4	25
ZZ31722		0.19	0.005	1.40	0.67	35.6	<0.2	10	1160	0.76	0.17	1.28	0.78	6.36	3.8	26
ZZ31723		0.21	0.006	2.34	0.58	155.5	<0.2	10	1070	0.78	0.15	1.19	0.98	5.53	5.1	32
ZZ31724		0.17	0.003	3.18	0.61	117.5	<0.2	10	970	0.75	0.15	1.58	2.03	5.66	4.4	37
ZZ31725		0.14	0.012	1.47	0.55	94.9	<0.2	10	1720	0.79	0.19	1.01	1.20	6.38	6.9	22
ZZ31726		0.10	0.012	1.56	0.47	66.4	<0.2	10	1450	0.61	0.17	1.48	1.94	5.16	20.4	19
ZZ31727		0.17	0.005	1.10	0.54	57.0	<0.2	10	1210	0.72	0.17	1.45	1.10	6.13	6.4	22
ZZ31728		0.09	0.001	1.20	0.83	99.8	<0.2	10	510	0.62	0.14	2.61	1.76	5.40	4.1	21
ZZ31729		0.20	0.004	0.20	1.41	37.1	<0.2	10	170	0.94	0.27	0.71	0.23	18.65	15.9	24
ZZ31730		0.12	0.021	0.29	1.51	41.8	<0.2	10	220	0.99	0.29	1.24	0.40	16.10	16.4	23
ZZ31731		0.17	0.002	0.13	1.62	47.4	<0.2	<10	200	0.97	0.30	0.56	0.29	20.8	16.3	24
ZZ31732		0.17	0.001	0.10	1.47	39.1	<0.2	<10	180	0.79	0.28	0.81	0.24	16.25	14.8	22
ZZ31733		0.18	0.001	0.08	1.60	37.9	<0.2	<10	210	0.75	0.32	0.36	0.46	22.5	16.3	24
ZZ31734		0.19	0.001	0.10	1.52	41.2	<0.2	<10	230	0.78	0.30	0.62	0.66	21.0	20.1	23
ZZ31735		0.18	<0.001	0.02	1.40	10.1	<0.2	<10	180	0.33	0.30	0.09	0.27	23.2	7.4	21
ZZ31736		0.21	0.002	0.04	1.82	12.2	<0.2	<10	130	0.78	0.31	0.74	0.12	20.3	15.6	25
ZZ31737		0.23	0.002	0.07	1.73	12.4	<0.2	<10	110	0.96	0.29	0.62	0.11	22.2	12.7	23
ZZ31738		0.19	0.001	0.07	1.81	12.9	<0.2	10	180	0.97	0.30	0.97	0.27	18.25	14.3	25
ZZ31739		0.15	<0.001	0.09	1.59	11.1	<0.2	10	140	0.74	0.26	1.42	0.20	14.60	11.3	21
ZZ31740		0.17	0.004	0.10	1.95	11.9	<0.2	<10	160	1.06	0.29	1.02	0.16	20.5	15.5	26
ZZ31741		0.16	0.002	0.11	1.78	12.3	<0.2	10	160	0.87	0.26	1.39	0.21	18.30	16.3	25
ZZ31742		0.28	0.003	0.14	1.71	17.1	<0.2	<10	160	0.91	0.29	0.89	0.24	21.6	17.7	28
ZZ31743		0.17	0.004	0.16	1.80	11.4	<0.2	<10	210	0.84	0.24	1.58	0.28	18.35	14.9	26
ZZ31744		0.13	0.001	0.16	1.53	9.7	<0.2	<10	240	0.81	0.23	1.69	0.28	18.30	11.9	22
ZZ31745		0.15	0.004	0.12	1.58	10.6	<0.2	<10	260	0.77	0.24	1.59	0.24	17.80	15.0	23

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ31706		0.50	14.2	1.50	2.37	<0.05	0.05	1.04	0.014	0.03	6.0	4.2	0.17	156	1.93	<0.01
ZZ31707		0.88	24.5	3.00	3.06	0.07	0.07	13.05	0.033	0.06	14.8	9.1	1.77	313	5.31	<0.01
ZZ31708		1.42	18.1	3.02	5.06	0.06	0.03	9.06	0.032	0.05	10.9	8.7	0.25	503	2.29	<0.01
ZZ31709		1.24	16.0	3.77	4.40	0.06	0.02	4.51	0.037	0.04	13.7	6.4	2.62	1080	2.11	0.01
ZZ31710		0.68	13.6	2.69	2.15	<0.05	0.04	7.88	0.018	0.03	5.3	4.7	7.41	416	3.19	0.01
ZZ31711		1.19	77.0	1.45	1.75	<0.05	0.03	3.62	0.016	0.03	4.4	4.3	0.22	757	7.11	0.01
ZZ31712		1.00	81.2	1.80	1.92	0.06	0.07	1.47	0.024	0.04	4.8	5.2	0.19	492	2.70	<0.01
ZZ31713		1.30	76.9	1.71	1.96	0.06	0.05	1.57	0.020	0.04	5.2	5.5	0.24	410	2.17	0.01
ZZ31714		1.27	60.9	1.43	1.90	0.05	0.05	1.58	0.025	0.04	4.1	4.1	0.14	359	3.48	<0.01
ZZ31715		1.25	60.0	1.84	1.67	<0.05	0.05	0.90	0.023	0.05	3.3	3.5	0.14	1610	6.21	0.01
ZZ31716		1.18	56.9	1.67	1.71	0.06	0.05	0.92	0.023	0.05	3.6	3.3	0.11	292	4.05	<0.01
ZZ31717		1.21	57.6	2.00	1.69	<0.05	0.05	0.73	0.024	0.05	3.5	3.7	0.13	331	4.95	<0.01
ZZ31718		1.25	57.9	2.10	1.80	<0.05	0.04	0.55	0.028	0.06	3.3	3.7	0.10	206	6.17	<0.01
ZZ31719		1.02	47.1	2.19	1.58	0.05	0.05	0.84	0.026	0.06	3.0	3.2	0.44	248	6.45	<0.01
ZZ31720		1.28	44.6	2.10	1.59	0.06	0.04	0.37	0.027	0.06	2.7	3.2	0.08	186	3.87	<0.01
ZZ31721		1.08	52.9	1.85	1.79	0.07	0.06	0.48	0.026	0.06	3.2	4.6	0.11	290	4.35	<0.01
ZZ31722		0.97	57.3	1.43	2.17	0.05	0.06	0.46	0.029	0.06	3.5	5.1	0.13	177	3.01	<0.01
ZZ31723		0.84	67.0	2.80	1.91	0.06	0.05	0.48	0.035	0.06	3.4	4.0	0.09	126	8.40	<0.01
ZZ31724		0.72	66.6	1.95	1.99	0.05	0.05	0.72	0.032	0.05	3.7	4.3	0.09	174	7.28	<0.01
ZZ31725		1.30	58.8	2.56	1.86	0.05	0.05	0.49	0.032	0.06	3.7	4.0	0.09	197	6.80	<0.01
ZZ31726		1.21	57.0	2.08	1.57	0.05	0.06	0.41	0.029	0.06	2.9	3.4	0.09	2220	5.08	<0.01
ZZ31727		0.94	58.1	2.16	1.79	0.05	0.04	0.44	0.031	0.06	3.4	4.1	0.10	196	4.22	0.01
ZZ31728		1.01	53.4	1.25	2.36	0.15	0.10	0.32	0.025	0.05	2.6	7.3	0.16	57	3.60	0.01
ZZ31729		2.17	60.9	4.14	4.41	0.06	0.09	0.19	0.038	0.09	8.0	25.3	0.62	527	0.93	<0.01
ZZ31730		1.89	52.0	3.95	4.37	0.05	0.10	0.16	0.041	0.10	7.2	24.4	0.62	672	0.99	0.01
ZZ31731		1.53	37.2	4.29	4.87	0.05	0.08	0.08	0.041	0.08	8.9	30.8	0.60	497	1.07	<0.01
ZZ31732		1.26	37.4	3.88	4.56	<0.05	0.07	0.08	0.033	0.08	7.0	24.2	0.59	546	1.02	<0.01
ZZ31733		1.36	34.2	3.99	5.33	<0.05	0.05	0.07	0.042	0.10	9.5	27.3	0.49	669	1.07	0.01
ZZ31734		1.32	34.5	4.06	4.95	<0.05	0.06	0.07	0.039	0.08	8.8	29.6	0.53	624	1.01	<0.01
ZZ31735		1.23	27.7	3.00	7.83	0.05	<0.02	0.03	0.031	0.04	11.0	11.6	0.27	207	1.29	<0.01
ZZ31736		0.92	45.2	3.92	4.85	<0.05	0.15	0.06	0.029	0.09	7.7	46.4	0.80	691	0.64	<0.01
ZZ31737		0.78	45.3	3.85	4.58	0.05	0.09	0.08	0.029	0.06	9.4	42.9	0.70	566	0.59	<0.01
ZZ31738		1.08	46.7	3.87	4.87	0.06	0.10	0.10	0.032	0.11	8.4	43.0	0.83	679	0.69	<0.01
ZZ31739		1.27	46.6	3.59	4.21	0.05	0.10	0.13	0.028	0.09	7.2	34.7	0.78	354	0.63	0.01
ZZ31740		1.40	67.2	4.02	5.38	0.06	0.14	0.15	0.035	0.12	9.9	45.6	0.84	621	0.61	0.01
ZZ31741		1.56	70.3	3.92	4.82	0.05	0.12	0.13	0.032	0.12	8.5	37.5	0.83	517	0.67	0.01
ZZ31742		2.39	82.0	4.62	4.92	0.06	0.10	0.19	0.039	0.10	10.3	33.2	0.83	604	0.96	0.01
ZZ31743		1.68	89.5	3.75	4.90	0.05	0.08	0.16	0.036	0.09	8.4	29.3	0.77	821	0.67	0.01
ZZ31744		1.23	60.0	3.02	4.36	<0.05	0.06	0.12	0.031	0.07	8.9	24.1	0.60	552	0.69	0.01
ZZ31745		1.40	81.5	3.61	4.76	0.05	0.09	0.14	0.035	0.09	8.9	31.6	0.81	523	0.63	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ31706		0.53	21.5	720	21.1	3.9	<0.001	0.11	1.05	1.3	1.6	0.3	28.9	<0.01	0.02	0.4
ZZ31707		0.32	54.2	770	65.0	7.4	<0.001	0.07	3.28	4.7	2.9	0.5	29.2	<0.01	0.07	1.3
ZZ31708		0.78	46.4	890	72.1	9.6	<0.001	0.06	1.77	2.4	1.2	0.6	16.3	<0.01	0.03	0.7
ZZ31709		0.52	73.7	980	92.3	6.3	<0.001	0.07	1.71	3.2	1.6	0.6	26.0	<0.01	0.04	0.5
ZZ31710		0.27	106.0	580	153.5	4.6	<0.001	0.02	3.98	2.8	1.8	0.4	63.2	<0.01	0.01	0.9
ZZ31711		0.38	129.0	1290	264	6.6	0.008	0.17	3.18	1.0	6.4	0.4	51.6	<0.01	0.02	0.3
ZZ31712		0.38	97.5	1360	31.8	6.8	0.015	0.18	2.56	2.3	12.3	0.3	87.8	<0.01	0.03	0.7
ZZ31713		0.38	86.6	1140	38.3	8.5	0.022	0.17	2.45	2.2	9.4	0.4	76.1	<0.01	0.04	0.5
ZZ31714		0.26	68.3	1060	24.0	6.6	0.024	0.12	2.23	2.5	8.8	0.4	86.1	<0.01	0.06	0.5
ZZ31715		0.24	81.0	1120	19.9	7.3	0.036	0.15	2.28	2.6	9.8	0.4	83.4	<0.01	0.07	0.5
ZZ31716		0.22	55.8	910	18.4	5.7	0.018	0.11	2.05	2.5	9.5	0.4	79.0	<0.01	0.04	0.4
ZZ31717		0.21	72.3	1040	17.1	6.2	0.021	0.12	2.00	3.2	8.8	0.4	98.7	<0.01	0.08	0.5
ZZ31718		0.18	64.5	1120	14.1	6.0	0.015	0.10	2.01	3.7	8.3	0.4	117.0	<0.01	0.07	0.6
ZZ31719		0.15	67.3	1100	19.5	5.3	0.021	0.09	1.86	3.7	7.8	0.4	107.5	<0.01	0.07	0.7
ZZ31720		0.15	57.6	1030	10.5	6.4	0.027	0.10	1.29	3.8	11.5	0.4	118.0	<0.01	0.07	0.8
ZZ31721		0.18	67.2	1040	10.0	6.8	0.027	0.12	1.59	4.4	9.4	0.4	144.0	<0.01	0.06	0.8
ZZ31722		0.21	63.6	920	12.4	7.5	0.013	0.08	1.22	5.0	7.2	0.4	109.0	<0.01	0.05	0.9
ZZ31723		0.18	67.4	1240	11.8	6.1	0.016	0.08	1.70	5.3	11.1	0.4	160.5	<0.01	0.09	1.0
ZZ31724		0.20	70.0	1200	14.0	5.6	0.018	0.08	2.09	5.6	7.1	0.4	171.0	<0.01	0.09	0.8
ZZ31725		0.22	81.1	1050	12.3	7.4	0.017	0.09	2.65	5.6	7.7	0.5	105.5	<0.01	0.11	1.0
ZZ31726		0.18	92.5	1020	9.5	6.7	0.031	0.13	2.15	4.6	12.2	0.4	115.5	<0.01	0.09	0.6
ZZ31727		0.22	75.9	1020	12.8	6.3	0.014	0.10	1.50	4.8	5.9	0.4	126.5	<0.01	0.08	0.7
ZZ31728		0.29	82.9	840	8.9	4.3	0.043	0.57	1.95	3.6	60.7	0.4	136.0	<0.01	0.04	0.7
ZZ31729		0.22	30.5	670	17.2	7.9	0.001	0.05	0.59	7.6	1.3	0.4	39.4	<0.01	0.10	2.4
ZZ31730		0.22	29.0	830	21.9	9.4	0.001	0.08	0.53	6.6	1.5	0.5	69.5	<0.01	0.08	1.8
ZZ31731		0.20	27.7	530	25.1	9.8	0.001	0.03	0.39	5.8	1.2	0.4	36.2	<0.01	0.09	2.6
ZZ31732		0.16	22.7	650	23.0	9.8	<0.001	0.05	0.37	5.1	1.0	0.4	51.2	<0.01	0.08	1.9
ZZ31733		0.24	24.0	420	25.7	11.3	<0.001	0.03	0.35	4.9	1.1	0.5	30.6	<0.01	0.07	2.9
ZZ31734		0.21	26.6	480	28.7	11.1	<0.001	0.03	0.39	5.1	1.1	0.4	38.7	<0.01	0.07	2.6
ZZ31735		0.62	13.7	260	12.4	8.0	0.001	0.02	0.40	3.6	0.6	0.8	10.3	<0.01	0.11	2.4
ZZ31736		0.11	30.2	330	19.0	6.1	<0.001	0.03	0.50	4.4	0.4	0.3	39.6	<0.01	0.05	3.5
ZZ31737		0.11	28.0	400	16.9	6.0	0.001	0.03	0.48	5.4	1.0	0.3	39.0	<0.01	0.05	3.2
ZZ31738		0.16	29.4	630	19.0	7.7	0.001	0.06	0.50	5.0	1.7	0.3	97.6	<0.01	0.05	2.0
ZZ31739		0.13	26.1	680	15.2	7.0	0.004	0.12	0.48	4.1	2.0	0.3	60.4	<0.01	0.06	1.4
ZZ31740		0.15	35.0	600	17.4	7.9	0.001	0.07	0.52	6.3	1.2	0.3	44.3	<0.01	0.05	2.3
ZZ31741		0.16	33.8	640	15.3	7.4	0.001	0.08	0.51	6.5	1.3	0.3	54.8	<0.01	0.06	2.2
ZZ31742		0.21	38.1	540	17.8	6.9	0.001	0.06	0.61	9.3	1.2	0.3	33.5	<0.01	0.09	2.8
ZZ31743		0.25	32.0	790	13.2	8.1	<0.001	0.10	0.55	6.6	1.8	0.4	59.3	<0.01	0.10	1.5
ZZ31744		0.40	26.7	840	12.4	7.4	<0.001	0.10	0.52	4.4	1.7	0.4	66.4	<0.01	0.07	1.0
ZZ31745		0.14	29.9	710	13.6	6.3	0.001	0.09	0.48	6.5	2.3	0.3	60.2	<0.01	0.07	1.5

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To: ATAC RESOURCES LTD.  
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31706		0.013	0.33	5.26	26	0.16	5.77	150	1.5
ZZ31707		<0.005	0.66	1.77	75	0.23	21.0	319	1.3
ZZ31708		0.018	0.67	4.57	58	0.30	9.44	382	0.6
ZZ31709		0.017	0.39	3.87	75	0.23	15.55	482	<0.5
ZZ31710		0.006	0.58	1.36	37	0.24	8.42	477	1.0
ZZ31711		0.008	10.40	8.83	30	0.16	13.60	1230	1.0
ZZ31712		0.008	0.51	5.09	48	0.16	17.75	426	1.8
ZZ31713		0.007	0.62	4.53	58	0.14	19.60	340	1.9
ZZ31714		<0.005	0.42	4.81	57	0.11	17.40	259	1.6
ZZ31715		<0.005	0.42	6.45	60	0.09	15.30	309	1.7
ZZ31716		<0.005	0.36	4.81	60	0.12	16.50	225	1.7
ZZ31717		<0.005	0.31	4.39	64	0.10	18.35	318	1.7
ZZ31718		<0.005	0.25	4.11	68	0.11	19.05	271	1.5
ZZ31719		<0.005	0.21	3.41	57	0.12	17.35	284	1.4
ZZ31720		<0.005	0.19	2.87	48	0.08	17.55	212	1.6
ZZ31721		<0.005	0.22	3.87	47	0.07	17.45	213	2.0
ZZ31722		<0.005	0.16	7.82	53	0.06	19.20	175	1.7
ZZ31723		<0.005	0.15	4.03	60	0.10	21.6	251	1.8
ZZ31724		<0.005	0.16	4.64	68	0.14	24.4	222	1.9
ZZ31725		<0.005	0.68	2.55	57	0.07	18.45	224	1.6
ZZ31726		<0.005	0.47	5.17	48	0.09	16.50	244	2.1
ZZ31727		<0.005	0.18	3.38	48	0.07	18.80	239	1.6
ZZ31728		<0.005	0.19	14.95	89	0.07	10.90	273	3.8
ZZ31729		0.005	0.13	1.05	41	<0.05	10.80	112	2.1
ZZ31730		0.005	0.17	2.42	41	0.06	10.30	119	2.3
ZZ31731		0.005	0.17	1.47	43	0.05	6.03	132	2.0
ZZ31732		<0.005	0.15	1.72	41	<0.05	6.12	124	1.6
ZZ31733		0.005	0.16	1.50	44	0.06	6.39	167	1.1
ZZ31734		<0.005	0.16	1.68	42	0.06	5.70	159	1.6
ZZ31735		0.016	0.12	0.48	74	0.12	2.76	47	0.5
ZZ31736		<0.005	0.06	1.17	27	0.05	4.08	85	4.3
ZZ31737		<0.005	0.05	0.92	28	<0.05	7.74	66	2.5
ZZ31738		<0.005	0.08	0.82	32	0.05	8.20	98	2.6
ZZ31739		<0.005	0.07	1.74	27	<0.05	8.32	81	2.5
ZZ31740		<0.005	0.07	1.08	36	<0.05	11.80	84	3.4
ZZ31741		<0.005	0.09	1.01	36	<0.05	9.72	89	3.1
ZZ31742		0.007	0.11	0.60	49	0.05	10.90	91	2.3
ZZ31743		0.006	0.09	1.04	43	0.06	9.61	80	2.2
ZZ31744		0.011	0.08	1.01	36	0.07	9.81	67	1.6
ZZ31745		0.005	0.07	0.94	38	<0.05	9.30	68	2.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31746		0.17	0.003	0.06	2.46	11.8	<0.2	<10	270	1.08	0.24	0.20	0.34	33.1	18.5	31
ZZ31747		0.14	0.005	0.16	1.86	8.1	<0.2	<10	250	1.17	0.28	1.21	0.50	15.95	8.0	26
ZZ31748		0.14	0.003	0.17	1.69	12.3	<0.2	<10	270	0.89	0.24	1.49	0.32	15.75	14.0	24
ZZ31749		0.14	0.005	0.18	1.76	13.8	<0.2	<10	220	0.88	0.26	1.14	0.21	15.30	14.6	27
ZZ31750		0.12	0.008	0.23	1.76	16.1	<0.2	10	320	1.22	0.28	1.49	0.38	11.90	19.0	26
ZZ31751		0.12	0.007	0.20	1.33	4.3	<0.2	<10	260	0.82	0.17	2.18	0.40	12.90	12.5	20
ZZ31752		0.12	0.007	0.27	1.62	5.5	<0.2	<10	400	1.02	0.18	2.17	0.44	15.80	14.0	24
ZZ31753		0.23	0.001	0.10	1.85	15.5	<0.2	<10	260	1.44	0.30	0.35	0.64	20.2	37.0	36
ZZ31754		0.10	NSS	0.11	0.78	2.5	<0.2	<10	380	0.57	0.10	3.20	0.31	10.85	12.0	9
ZZ31755		0.12	NSS	0.19	1.18	5.1	<0.2	<10	320	0.54	0.15	2.09	0.45	11.90	9.8	17
ZZ31756		0.12	<0.001	0.17	1.23	5.2	<0.2	<10	290	0.81	0.16	2.58	0.44	14.70	12.5	15
ZZ31757		0.20	0.002	0.07	1.41	12.1	<0.2	<10	290	0.55	0.28	0.92	0.19	15.20	14.3	24
ZZ31758		0.15	NSS	0.11	1.11	7.6	<0.2	<10	220	0.62	0.16	0.30	0.38	14.75	15.8	21
ZZ31759		0.18	0.004	0.11	1.98	18.5	<0.2	<10	270	0.97	0.32	0.58	0.17	25.5	20.1	32
ZZ31760		0.15	0.003	0.15	1.82	11.2	<0.2	<10	270	0.84	0.27	1.03	0.20	19.45	13.1	27
ZZ31761		0.09	0.002	0.18	1.65	12.5	<0.2	10	250	0.90	0.21	1.95	0.39	16.10	13.0	24
ZZ31762		0.12	0.002	0.16	1.68	10.8	<0.2	<10	250	0.77	0.23	1.30	0.39	20.9	11.3	26
ZZ31763		0.16	0.001	0.07	2.00	11.8	<0.2	<10	140	0.63	0.30	0.07	0.22	26.9	17.1	28
ZZ31764		0.10	<0.001	0.14	0.96	10.3	<0.2	<10	550	0.65	0.11	2.97	0.28	8.40	6.3	13
ZZ31765		0.09	0.009	0.17	1.01	9.4	<0.2	10	410	0.56	0.14	3.59	0.21	8.45	8.8	17
ZZ31766		0.17	0.004	0.12	1.47	9.9	<0.2	10	240	0.85	0.21	1.84	0.25	18.55	16.1	23
ZZ31767		0.14	0.006	0.13	1.80	12.3	<0.2	<10	320	1.01	0.24	1.13	0.32	22.0	18.7	29
ZZ31768		0.10	0.004	0.39	0.95	11.2	<0.2	20	250	0.61	0.10	3.50	0.35	7.03	8.6	14
ZZ31769		0.13	0.003	0.13	1.61	10.8	<0.2	10	280	0.88	0.23	1.48	0.36	17.70	15.7	25
ZZ31770		0.18	0.004	0.12	1.56	34.7	<0.2	10	190	1.20	0.28	0.78	0.28	21.2	21.8	25
ZZ31771		0.21	0.003	0.13	1.53	29.8	<0.2	10	140	1.06	0.28	0.96	0.31	21.0	17.5	26
ZZ31772		0.16	0.004	0.11	1.26	38.6	<0.2	10	140	0.98	0.25	0.86	0.35	19.75	19.4	22
ZZ31773		0.15	0.004	0.15	1.50	49.7	<0.2	10	220	1.13	0.30	0.74	0.31	23.0	31.2	25
ZZ31774		0.21	<0.001	0.09	0.95	26.0	<0.2	<10	130	0.42	0.21	1.15	0.72	13.65	12.9	18
ZZ31775		0.16	0.004	0.12	1.47	35.4	<0.2	10	160	1.07	0.28	0.76	0.41	21.6	21.3	25
ZZ31776		0.20	0.003	0.28	1.63	48.7	<0.2	<10	310	1.22	0.28	0.19	0.63	32.2	20.9	26
ZZ31777		0.21	<0.001	0.08	1.38	20.3	<0.2	<10	170	0.50	0.26	0.08	0.63	20.4	9.0	22
ZZ31778		0.18	0.003	0.20	0.95	72.2	<0.2	<10	230	0.82	0.24	0.79	0.43	17.20	14.7	17
ZZ31779		0.19	0.002	0.13	1.11	41.2	<0.2	<10	170	0.79	0.24	1.00	0.40	17.80	14.4	18
ZZ31780		0.20	<0.001	0.01	1.38	28.1	<0.2	<10	80	0.58	0.25	0.03	0.13	16.70	12.5	20
ZZ31781		0.22	<0.001	0.01	1.01	13.1	<0.2	<10	120	0.31	0.27	0.05	0.08	33.4	5.4	12
ZZ31782		0.13	0.005	0.19	1.23	17.6	<0.2	10	240	0.79	0.20	2.24	0.71	13.35	11.7	17
ZZ31783		0.19	0.002	0.16	1.50	25.6	<0.2	<10	190	0.99	0.28	0.96	0.42	21.8	17.4	23
ZZ31784		0.18	<0.001	0.08	1.82	17.1	<0.2	<10	180	1.01	0.26	0.83	0.20	22.9	17.7	26
ZZ31785		0.14	0.001	0.11	1.48	20.3	<0.2	10	200	0.86	0.25	1.28	0.36	19.35	15.2	22

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ31746		1.33	53.7	4.20	5.30	0.05	0.07	0.04	0.045	0.06	11.9	38.1	0.75	565	0.61	<0.01
ZZ31747		3.23	93.9	2.17	5.18	0.05	0.10	0.37	0.047	0.10	7.6	28.0	0.75	105	0.28	0.01
ZZ31748		1.38	85.9	3.62	4.83	<0.05	0.09	0.19	0.038	0.09	7.6	25.8	0.65	615	0.94	0.01
ZZ31749		1.61	99.0	3.97	4.98	0.05	0.07	0.17	0.039	0.08	7.9	25.9	0.73	545	1.39	0.01
ZZ31750		3.21	141.5	4.28	5.09	0.06	0.07	0.27	0.064	0.12	6.9	22.2	0.73	921	1.30	0.01
ZZ31751		4.64	141.0	2.34	3.70	0.05	0.03	0.18	0.040	0.05	6.0	14.4	0.52	940	0.59	0.01
ZZ31752		7.90	145.0	2.86	4.40	0.11	0.06	0.23	0.042	0.05	10.5	16.2	0.62	1440	0.70	0.01
ZZ31753		6.21	109.5	8.91	5.63	0.05	0.03	0.13	0.080	0.08	5.5	20.9	0.51	3030	0.91	<0.01
ZZ31754		3.74	81.8	1.29	1.80	<0.05	0.05	0.16	0.023	0.02	4.7	3.1	0.27	645	0.49	0.01
ZZ31755		4.59	47.2	2.09	3.53	0.06	0.06	0.13	0.028	0.05	5.9	12.1	0.54	711	0.81	0.01
ZZ31756		3.48	95.1	2.35	3.16	0.06	0.05	0.14	0.032	0.04	7.0	15.1	0.55	1100	0.48	0.01
ZZ31757		2.03	48.0	3.70	5.68	<0.05	0.04	0.04	0.033	0.06	6.6	22.1	0.45	713	1.05	<0.01
ZZ31758		6.72	65.8	3.09	3.97	<0.05	<0.02	0.06	0.036	0.06	5.0	11.7	0.32	603	0.84	0.01
ZZ31759		2.30	81.6	4.63	5.80	0.05	0.10	0.19	0.040	0.10	10.8	38.0	0.99	661	0.77	0.01
ZZ31760		1.44	41.3	3.74	5.07	<0.05	0.10	0.18	0.033	0.10	8.9	33.5	0.77	534	0.61	0.01
ZZ31761		2.48	100.0	3.44	4.76	<0.05	0.07	0.18	0.037	0.12	8.6	26.3	0.81	553	0.62	0.01
ZZ31762		2.61	55.7	3.17	4.72	<0.05	0.07	0.15	0.035	0.07	9.6	24.2	0.68	459	0.69	0.01
ZZ31763		1.53	36.9	4.13	7.18	<0.05	0.05	0.04	0.042	0.06	13.2	32.5	0.48	496	1.13	<0.01
ZZ31764		1.82	84.2	1.59	3.10	<0.05	0.05	0.10	0.022	0.04	6.3	6.6	0.34	709	0.56	0.01
ZZ31765		1.62	105.5	2.39	2.85	0.05	0.05	0.15	0.025	0.06	5.4	14.2	0.88	319	0.56	0.01
ZZ31766		0.96	78.4	3.41	4.04	0.05	0.06	0.12	0.031	0.08	8.7	29.2	0.69	752	0.49	<0.01
ZZ31767		2.02	84.3	4.76	5.03	0.05	0.07	0.24	0.039	0.09	10.4	34.5	0.80	1350	0.94	<0.01
ZZ31768		7.97	119.0	2.02	2.32	<0.05	0.04	0.33	0.019	0.07	5.2	11.3	0.58	416	0.66	0.01
ZZ31769		2.01	74.3	3.96	4.50	0.05	0.06	0.15	0.031	0.09	8.8	32.3	0.79	855	0.67	0.01
ZZ31770		2.86	77.4	4.06	4.50	0.05	0.07	0.22	0.042	0.10	9.3	29.1	0.66	252	0.86	<0.01
ZZ31771		2.84	82.2	4.17	4.60	0.05	0.07	0.22	0.043	0.10	9.1	30.5	0.75	390	0.56	<0.01
ZZ31772		3.19	74.0	4.15	3.84	0.05	0.07	0.23	0.040	0.09	8.3	26.0	0.73	628	0.79	<0.01
ZZ31773		3.72	86.9	4.98	4.37	0.06	0.07	0.28	0.042	0.10	9.8	28.3	0.72	1380	1.05	0.01
ZZ31774		1.25	40.9	3.31	4.44	<0.05	0.03	0.04	0.030	0.07	6.1	11.5	0.42	731	0.78	0.01
ZZ31775		3.01	85.2	4.53	4.29	0.06	0.07	0.27	0.040	0.10	9.2	28.2	0.75	864	0.82	0.01
ZZ31776		1.42	68.3	4.59	4.32	0.06	0.06	0.17	0.042	0.09	13.7	31.6	0.62	970	0.79	0.01
ZZ31777		0.74	20.8	3.64	5.51	<0.05	<0.02	0.02	0.031	0.08	9.7	22.6	0.26	416	1.27	<0.01
ZZ31778		1.44	48.3	3.50	2.78	0.05	0.05	0.20	0.029	0.06	7.3	28.2	0.68	483	1.35	<0.01
ZZ31779		1.45	43.7	3.53	3.23	0.05	0.05	0.11	0.028	0.06	7.8	38.4	0.88	536	1.13	<0.01
ZZ31780		1.00	27.0	3.57	4.01	<0.05	<0.02	0.03	0.027	0.05	7.8	35.9	0.42	449	1.07	<0.01
ZZ31781		1.16	12.5	2.49	4.94	<0.05	<0.02	0.01	0.015	0.04	16.1	10.2	0.15	175	1.32	<0.01
ZZ31782		1.28	61.2	2.81	3.30	<0.05	0.07	0.13	0.024	0.08	6.1	21.7	0.57	697	0.64	<0.01
ZZ31783		1.70	65.6	3.84	4.23	0.05	0.08	0.21	0.035	0.09	10.2	36.1	0.69	764	0.74	<0.01
ZZ31784		1.19	66.6	4.41	4.97	0.05	0.08	0.08	0.035	0.10	10.4	42.1	0.77	612	0.92	<0.01
ZZ31785		1.49	54.7	3.40	4.04	<0.05	0.09	0.13	0.030	0.09	9.1	38.2	0.75	827	0.59	<0.01

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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ31746		0.32	41.2	430	14.3	9.4	<0.001	0.02	0.41	5.8	0.7	0.4	12.6	<0.01	0.09	4.1
ZZ31747		0.26	25.3	730	16.2	10.1	0.005	0.22	0.48	10.2	5.6	0.5	61.4	<0.01	0.06	1.6
ZZ31748		0.26	28.6	890	13.6	8.3	<0.001	0.10	0.54	5.8	1.5	0.4	43.5	<0.01	0.12	1.1
ZZ31749		0.31	29.4	710	13.7	7.8	0.001	0.07	0.50	9.0	1.9	0.4	30.5	<0.01	0.10	1.8
ZZ31750		0.30	32.1	890	17.9	9.7	0.001	0.11	0.61	15.1	3.3	0.5	31.7	<0.01	0.11	1.3
ZZ31751		0.38	17.1	1100	8.1	6.3	<0.001	0.17	0.30	8.2	3.2	0.3	38.3	<0.01	0.08	0.5
ZZ31752		0.39	22.5	1520	9.7	7.2	0.001	0.16	0.39	10.8	3.6	0.4	37.9	<0.01	0.08	0.7
ZZ31753		0.36	41.7	1040	22.9	12.2	<0.001	0.05	0.54	11.7	1.5	1.0	16.9	<0.01	0.24	1.6
ZZ31754		0.28	8.9	1310	7.2	2.2	0.001	0.22	0.25	5.5	3.2	0.2	46.4	<0.01	0.03	0.3
ZZ31755		0.46	16.5	1120	7.1	7.7	<0.001	0.17	0.34	5.8	2.3	0.4	53.0	<0.01	0.06	0.7
ZZ31756		0.22	19.9	1110	10.3	4.9	<0.001	0.16	0.33	5.6	2.9	0.2	69.0	<0.01	0.06	0.5
ZZ31757		0.60	20.4	530	14.2	9.0	0.001	0.05	0.47	4.3	0.8	0.6	25.7	<0.01	0.10	1.4
ZZ31758		0.23	20.9	960	10.7	6.1	<0.001	0.09	0.30	5.4	1.2	0.5	11.0	<0.01	0.09	0.6
ZZ31759		0.23	38.1	390	16.8	7.8	0.001	0.04	0.50	8.2	1.1	0.4	16.3	<0.01	0.09	3.1
ZZ31760		0.33	26.9	780	14.5	9.8	0.003	0.11	0.37	5.9	1.5	0.4	111.5	<0.01	0.06	1.7
ZZ31761		0.34	30.7	800	13.5	10.1	0.001	0.13	0.71	6.4	2.1	0.4	251	<0.01	0.07	1.1
ZZ31762		0.54	24.4	1000	14.2	10.7	0.002	0.13	0.55	6.4	1.9	0.4	136.0	<0.01	0.05	1.6
ZZ31763		0.76	24.0	330	16.5	10.5	<0.001	0.02	0.49	3.9	0.7	0.7	8.3	<0.01	0.09	3.7
ZZ31764		0.32	11.0	1200	6.3	3.9	<0.001	0.19	0.27	4.2	1.2	0.2	83.4	<0.01	0.04	0.3
ZZ31765		0.16	21.4	870	7.1	4.4	0.001	0.18	0.37	3.8	2.1	0.2	103.5	<0.01	0.06	0.3
ZZ31766		0.19	29.8	710	12.5	5.5	<0.001	0.08	0.48	5.1	1.2	0.3	61.0	<0.01	0.07	1.0
ZZ31767		0.25	25.8	850	17.0	9.1	0.002	0.11	0.37	10.2	3.1	0.3	51.9	<0.01	0.08	1.4
ZZ31768		0.18	18.9	1090	6.8	7.9	0.001	0.21	0.81	4.5	4.3	0.3	121.5	<0.01	0.04	0.3
ZZ31769		0.20	25.7	860	14.7	9.2	0.002	0.10	0.44	7.4	2.5	0.3	69.0	<0.01	0.09	1.1
ZZ31770		0.22	36.4	690	21.5	9.8	0.002	0.07	0.54	10.7	2.0	0.4	44.5	<0.01	0.12	2.7
ZZ31771		0.21	32.9	710	20.3	9.9	0.001	0.06	0.48	10.5	1.9	0.4	61.0	<0.01	0.14	2.3
ZZ31772		0.18	34.5	770	19.7	8.4	0.001	0.05	0.54	9.6	1.4	0.4	57.4	<0.01	0.10	2.5
ZZ31773		0.22	42.3	820	22.3	9.6	0.003	0.06	0.69	11.1	1.8	0.4	49.6	<0.01	0.10	3.0
ZZ31774		0.22	16.9	730	15.0	11.3	<0.001	0.05	0.35	3.1	0.5	0.4	69.6	<0.01	0.08	0.9
ZZ31775		0.20	38.0	740	21.1	9.6	0.002	0.05	0.55	10.2	1.8	0.4	49.5	<0.01	0.10	2.6
ZZ31776		0.18	37.1	700	31.3	8.5	<0.001	0.01	0.45	11.3	1.0	0.4	20.6	<0.01	0.08	4.3
ZZ31777		0.72	13.7	360	17.9	6.7	<0.001	0.01	0.46	2.3	0.3	0.6	11.4	<0.01	0.06	1.6
ZZ31778		0.10	35.0	630	22.2	4.8	0.001	0.04	0.87	4.7	1.1	0.3	45.7	<0.01	0.07	3.0
ZZ31779		0.08	35.3	600	19.0	4.2	0.001	0.04	0.80	4.4	0.9	0.3	41.4	<0.01	0.05	3.8
ZZ31780		0.19	21.3	280	17.2	10.5	<0.001	<0.01	0.68	2.4	0.6	0.3	9.3	<0.01	0.05	2.7
ZZ31781		0.64	9.6	140	12.1	8.7	<0.001	<0.01	0.49	1.8	0.2	0.6	6.5	<0.01	0.05	3.5
ZZ31782		0.24	23.3	950	14.4	7.4	0.001	0.14	0.48	3.6	1.9	0.3	117.0	<0.01	0.05	0.9
ZZ31783		0.24	32.5	850	20.6	8.1	0.001	0.09	0.56	7.2	1.9	0.3	62.0	<0.01	0.08	2.2
ZZ31784		0.14	33.0	590	17.5	8.1	<0.001	0.05	0.51	6.4	0.9	0.3	49.6	<0.01	0.09	1.9
ZZ31785		0.23	30.3	680	16.9	7.8	0.002	0.09	0.46	5.6	1.5	0.3	73.9	<0.01	0.06	2.0

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31746		0.007	0.09	0.48	46	0.07	5.51	62	2.0
ZZ31747		<0.005	0.15	1.59	46	<0.05	14.20	90	2.6
ZZ31748		0.006	0.09	0.79	40	0.05	10.85	81	2.1
ZZ31749		0.008	0.09	0.71	47	0.06	13.90	72	1.7
ZZ31750		0.007	0.13	0.84	48	0.06	22.0	75	1.7
ZZ31751		0.012	0.08	0.47	37	0.06	15.85	42	0.8
ZZ31752		0.013	0.10	0.58	41	0.07	36.6	51	1.3
ZZ31753		0.010	0.12	0.40	105	0.10	12.20	107	0.6
ZZ31754		0.013	0.07	0.39	16	<0.05	14.65	12	1.4
ZZ31755		0.014	0.08	0.73	30	0.07	10.65	47	1.8
ZZ31756		0.008	0.07	0.66	26	<0.05	15.50	48	1.3
ZZ31757		0.017	0.08	0.39	59	0.17	3.74	53	0.9
ZZ31758		0.010	0.06	0.33	42	0.06	7.62	53	0.5
ZZ31759		0.009	0.10	0.63	52	0.05	7.93	87	2.6
ZZ31760		0.008	0.10	0.77	43	0.06	8.56	88	2.0
ZZ31761		0.009	0.10	1.46	39	0.06	11.15	95	2.0
ZZ31762		0.011	0.10	1.17	43	0.18	9.73	105	1.8
ZZ31763		0.017	0.10	0.53	68	0.18	3.11	62	1.6
ZZ31764		0.014	0.06	0.41	34	<0.05	11.45	27	1.7
ZZ31765		0.005	0.06	1.29	34	<0.05	10.00	49	1.5
ZZ31766		0.006	0.07	1.46	39	<0.05	9.20	73	1.5
ZZ31767		0.005	0.09	1.37	57	0.05	11.70	93	1.8
ZZ31768		<0.005	0.13	1.29	23	<0.05	10.90	43	1.3
ZZ31769		0.005	0.07	1.20	43	<0.05	10.15	111	1.7
ZZ31770		<0.005	0.14	1.80	46	<0.05	13.15	95	2.1
ZZ31771		0.006	0.13	0.79	46	0.05	13.25	104	1.9
ZZ31772		0.006	0.13	0.75	40	<0.05	12.20	93	1.9
ZZ31773		0.007	0.18	1.10	45	0.05	12.90	105	2.2
ZZ31774		0.008	0.09	0.94	48	0.06	3.38	87	0.9
ZZ31775		0.006	0.15	0.74	45	0.05	12.75	98	2.1
ZZ31776		0.005	0.19	1.03	40	<0.05	17.40	159	2.0
ZZ31777		0.013	0.11	0.43	57	0.16	2.00	84	<0.5
ZZ31778		<0.005	0.18	0.96	28	0.06	9.66	124	1.8
ZZ31779		<0.005	0.10	0.92	24	<0.05	8.94	121	2.0
ZZ31780		<0.005	0.08	0.42	32	0.06	2.43	85	<0.5
ZZ31781		0.017	0.10	0.42	49	0.13	2.33	35	0.7
ZZ31782		0.006	0.09	3.31	28	0.06	8.07	71	2.2
ZZ31783		0.007	0.10	1.35	34	0.05	11.60	100	2.5
ZZ31784		<0.005	0.08	1.07	41	<0.05	9.75	75	2.2
ZZ31785		0.006	0.10	1.02	31	<0.05	10.05	93	2.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31786		0.23	0.003	0.14	1.73	16.0	<0.2	<10	140	1.00	0.31	0.48	0.25	31.2	16.5	28
ZZ31787		0.22	0.002	0.04	1.90	18.0	<0.2	<10	110	0.97	0.31	0.13	0.11	29.5	14.8	29
ZZ31788		0.12	0.002	0.09	1.22	26.9	<0.2	10	110	0.84	0.22	1.09	0.25	17.25	16.1	21
ZZ31789		0.24	0.003	0.10	1.31	32.8	<0.2	10	140	0.95	0.25	0.90	0.23	19.50	16.3	24
ZZ31790		0.16	0.003	0.11	1.26	33.4	<0.2	10	150	1.00	0.26	0.83	0.36	20.2	19.4	22
ZZ31791		0.16	0.004	0.12	1.30	40.7	<0.2	10	190	0.99	0.25	1.28	0.38	18.25	18.9	22
ZZ31792		0.22	0.002	0.08	1.78	14.6	<0.2	<10	170	0.99	0.27	1.04	0.22	22.8	16.5	26
ZZ31793		0.17	0.001	0.08	1.53	8.4	<0.2	<10	220	0.83	0.22	1.50	0.32	17.45	19.9	22
ZZ31794		0.20	0.003	0.10	1.67	9.8	<0.2	10	180	0.89	0.23	1.48	0.18	18.70	14.9	24
ZZ31795		0.13	0.003	0.08	1.57	9.8	<0.2	10	160	0.81	0.22	1.49	0.23	18.05	14.5	23
ZZ31796		0.24	0.003	0.10	1.81	10.9	<0.2	<10	200	0.98	0.26	1.12	0.29	26.2	20.6	28
ZZ31797		0.23	0.003	0.09	1.57	11.6	<0.2	<10	180	0.80	0.25	0.71	0.25	25.5	17.6	26
ZZ31798		0.24	0.002	0.14	1.61	13.2	<0.2	<10	210	0.83	0.23	1.24	0.31	21.2	14.7	26
ZZ31799		0.25	0.003	0.18	1.90	14.4	<0.2	10	310	1.03	0.23	1.16	0.29	18.90	12.9	30
ZZ31800		0.19	0.003	0.19	1.99	15.1	<0.2	<10	280	1.16	0.25	0.97	0.25	18.95	16.2	28
ZZ31801		0.26	0.008	0.14	1.82	12.9	<0.2	<10	240	0.99	0.26	0.63	0.19	21.9	14.3	31
ZZ31802		0.15	0.007	0.20	1.71	10.2	<0.2	<10	300	1.20	0.23	1.71	0.21	19.55	16.8	24
ZZ31803		0.14	0.007	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
ZZ31804		0.15	0.002	0.16	1.65	13.6	<0.2	<10	240	0.91	0.23	1.87	0.39	16.80	14.0	24
ZZ31805		0.16	0.003	0.12	1.39	13.3	<0.2	<10	230	0.79	0.22	1.50	0.30	17.35	13.5	22
ZZ31806		0.18	0.004	0.11	1.46	15.6	<0.2	<10	190	0.83	0.24	1.56	0.27	16.15	15.2	22
ZZ31807		0.19	0.003	0.12	1.53	13.9	<0.2	<10	180	0.86	0.24	1.37	0.26	18.00	15.1	23
ZZ31808		0.15	0.009	0.10	1.38	19.8	<0.2	<10	160	0.85	0.23	1.37	0.21	18.10	16.1	21
ZZ31809		0.16	0.003	0.11	1.31	44.7	<0.2	<10	160	1.00	0.26	0.97	0.16	20.3	18.8	22
ZZ31810		0.18	0.002	0.13	1.38	33.8	<0.2	<10	170	0.95	0.26	1.40	0.39	17.50	18.7	22
ZZ31811		0.21	0.002	0.08	1.08	39.4	<0.2	<10	100	0.82	0.25	1.26	0.30	17.60	17.5	19
ZZ31812		0.19	0.002	0.10	1.62	14.2	<0.2	<10	160	0.91	0.27	1.24	0.23	22.2	18.2	23
ZZ31813		0.22	0.002	0.03	2.23	15.4	<0.2	<10	250	0.65	0.33	0.11	0.16	31.5	18.2	32
ZZ31814		0.15	NSS	0.23	1.47	18.1	<0.2	<10	270	1.26	0.18	2.37	0.63	15.55	16.8	18
ZZ31815		0.21	0.002	0.05	1.51	14.1	<0.2	<10	100	0.43	0.31	0.09	0.11	28.0	7.6	23
ZZ31816		0.26	0.003	0.13	1.80	13.1	<0.2	<10	180	1.01	0.29	0.73	0.29	25.8	18.2	25
ZZ31817		0.21	0.008	0.19	1.62	21.5	<0.2	<10	190	0.96	0.29	0.94	0.37	24.0	15.7	25
ZZ31818		0.20	0.002	0.06	1.94	14.9	<0.2	<10	110	0.71	0.32	0.04	0.11	27.5	15.2	25
ZZ31819		0.17	<0.001	0.18	1.42	27.7	<0.2	<10	220	0.85	0.25	1.81	0.32	18.20	12.0	21
ZZ31820		0.12	NSS	0.17	1.17	24.4	<0.2	<10	230	0.72	0.20	2.55	0.30	14.55	12.3	17
ZZ31821		0.16	0.001	0.10	1.27	13.9	<0.2	<10	110	0.62	0.23	1.05	0.15	18.25	12.9	19
ZZ31822		0.17	0.001	0.09	1.74	14.5	<0.2	<10	80	0.83	0.29	0.70	0.15	26.9	18.2	25
ZZ31823		0.16	<0.001	0.07	1.13	8.3	<0.2	<10	170	0.32	0.25	0.14	0.24	23.9	6.0	17
ZZ31824		0.10	0.004	0.20	1.09	5.1	<0.2	<10	410	1.13	0.17	2.84	0.21	22.9	9.0	13
ZZ31825		0.13	0.009	0.22	1.54	31.1	<0.2	<10	270	1.01	0.25	1.92	0.57	18.70	16.1	22



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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ31786		1.14	52.4	4.18	4.79	0.06	0.06	0.09	0.034	0.06	14.5	42.3	0.73	654	0.82	<0.01
ZZ31787		1.30	47.5	4.72	4.81	<0.05	0.04	0.03	0.037	0.05	10.7	47.4	0.68	566	0.87	<0.01
ZZ31788		2.44	63.6	3.57	3.57	0.05	0.05	0.20	0.033	0.09	7.2	24.5	0.70	308	0.53	<0.01
ZZ31789		3.11	73.0	4.10	3.89	0.05	0.07	0.24	0.041	0.09	8.3	26.4	0.76	401	0.64	<0.01
ZZ31790		3.21	70.6	3.87	3.73	0.05	0.06	0.29	0.039	0.10	8.2	24.8	0.67	584	0.78	<0.01
ZZ31791		2.91	70.8	4.14	3.81	0.05	0.07	0.23	0.039	0.11	8.0	24.6	0.71	589	0.75	0.01
ZZ31792		1.01	59.8	4.50	4.91	0.05	0.09	0.10	0.033	0.10	10.4	43.0	0.83	681	0.79	<0.01
ZZ31793		0.95	57.2	3.47	4.21	<0.05	0.09	0.11	0.028	0.09	8.2	37.7	0.74	1710	0.70	<0.01
ZZ31794		1.24	68.0	3.66	4.53	0.05	0.09	0.10	0.030	0.10	9.1	39.6	0.81	474	0.53	<0.01
ZZ31795		1.08	58.4	3.57	4.18	0.05	0.08	0.09	0.028	0.10	8.6	35.9	0.79	495	0.55	0.01
ZZ31796		1.38	104.0	4.26	5.10	0.05	0.08	0.15	0.038	0.11	12.0	41.0	0.94	542	0.54	<0.01
ZZ31797		1.01	58.1	3.78	4.44	<0.05	0.05	0.07	0.033	0.07	10.6	33.0	0.77	565	0.67	<0.01
ZZ31798		1.09	76.0	3.64	4.59	0.05	0.04	0.15	0.032	0.08	9.8	31.3	0.69	437	0.72	<0.01
ZZ31799		1.74	100.0	4.00	5.33	0.05	0.06	0.22	0.038	0.12	9.5	33.2	0.78	301	0.69	<0.01
ZZ31800		1.55	87.9	4.43	5.38	0.05	0.07	0.19	0.043	0.11	9.6	27.3	0.71	634	0.77	0.01
ZZ31801		1.73	75.5	4.11	5.26	0.05	0.05	0.13	0.041	0.09	11.2	28.6	0.77	587	0.89	<0.01
ZZ31802		2.93	82.0	3.67	5.52	0.12	0.09	0.16	0.046	0.09	10.5	29.2	0.73	728	0.87	0.01
ZZ31803		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
ZZ31804		1.67	67.6	3.56	5.20	0.09	0.08	0.15	0.038	0.10	8.2	25.6	0.62	638	0.86	0.01
ZZ31805		1.10	56.2	3.32	4.45	0.08	0.06	0.11	0.033	0.06	7.9	23.6	0.58	629	0.87	0.01
ZZ31806		1.30	61.2	3.77	4.79	0.09	0.09	0.13	0.037	0.10	7.6	29.8	0.69	447	0.76	<0.01
ZZ31807		1.36	63.6	3.74	4.95	0.09	0.07	0.11	0.038	0.09	8.4	30.4	0.69	451	0.70	<0.01
ZZ31808		1.76	63.7	3.71	4.61	0.10	0.08	0.14	0.037	0.10	8.1	29.5	0.72	461	0.71	<0.01
ZZ31809		3.00	62.8	4.23	4.45	0.10	0.10	0.17	0.045	0.07	8.6	23.4	0.65	571	0.97	<0.01
ZZ31810		2.40	65.4	3.97	4.62	0.09	0.08	0.17	0.042	0.09	7.7	26.4	0.60	727	0.92	<0.01
ZZ31811		2.88	60.8	3.78	3.94	0.10	0.08	0.19	0.041	0.08	7.1	22.9	0.79	283	0.86	<0.01
ZZ31812		1.30	65.8	4.10	5.58	0.09	0.09	0.11	0.036	0.11	10.2	40.2	0.63	517	0.73	<0.01
ZZ31813		2.13	73.7	6.59	11.50	0.13	0.06	0.03	0.054	0.06	14.9	34.5	0.58	415	1.39	<0.01
ZZ31814		3.43	150.5	3.45	3.76	0.11	0.08	0.21	0.033	0.08	9.4	21.5	0.57	1080	1.00	0.01
ZZ31815		1.39	15.8	3.78	7.08	0.08	0.04	0.02	0.026	0.05	13.9	31.6	0.34	212	1.59	<0.01
ZZ31816		1.00	54.8	4.21	5.09	0.10	0.11	0.12	0.035	0.08	11.8	44.8	0.81	1070	0.81	0.01
ZZ31817		0.95	54.7	3.81	4.96	0.10	0.11	0.15	0.037	0.10	11.1	42.3	0.82	496	0.76	0.01
ZZ31818		1.18	31.8	4.60	6.97	0.09	0.06	0.04	0.042	0.04	12.6	44.1	0.56	318	1.13	<0.01
ZZ31819		1.08	41.4	3.10	4.41	0.08	0.09	0.14	0.034	0.09	8.5	28.2	0.60	447	0.95	0.01
ZZ31820		0.81	34.8	2.74	3.57	0.07	0.07	0.13	0.027	0.06	6.9	18.9	0.57	827	1.10	0.01
ZZ31821		0.56	37.6	3.52	3.87	0.08	0.07	0.08	0.028	0.04	7.8	36.7	0.68	491	0.62	<0.01
ZZ31822		0.99	48.9	4.21	5.31	0.10	0.15	0.09	0.028	0.10	11.9	54.0	0.91	670	0.68	0.01
ZZ31823		0.80	21.5	2.60	5.84	0.06	<0.02	0.02	0.024	0.04	11.5	16.8	0.22	231	1.12	<0.01
ZZ31824		1.72	94.4	1.76	3.61	0.10	0.06	0.18	0.030	0.03	16.3	6.3	0.22	920	0.92	0.01
ZZ31825		1.45	65.2	3.81	4.76	0.08	0.11	0.13	0.033	0.11	9.0	30.0	0.65	1140	1.17	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ31786		0.37	32.3	520	23.6	7.3	<0.001	0.02	0.54	8.7	1.1	0.4	34.4	<0.01	0.08	4.1
ZZ31787		0.20	31.0	380	23.6	9.6	<0.001	0.01	0.52	4.4	0.7	0.3	11.8	<0.01	0.07	4.2
ZZ31788		0.17	27.1	570	16.9	7.6	0.004	0.09	0.41	8.2	1.7	0.3	65.3	<0.01	0.09	2.1
ZZ31789		0.16	32.2	650	17.2	8.1	0.002	0.05	0.47	10.1	1.2	0.4	58.0	<0.01	0.11	2.7
ZZ31790		0.20	35.5	710	19.7	8.4	0.003	0.10	0.55	9.3	1.7	0.4	64.4	<0.01	0.11	2.7
ZZ31791		0.24	32.9	760	19.3	9.3	0.005	0.10	0.59	9.0	2.0	0.4	97.8	<0.01	0.09	2.1
ZZ31792		0.16	30.0	540	18.1	6.5	0.001	0.07	0.41	7.1	1.2	0.3	46.8	<0.01	0.09	2.5
ZZ31793		0.13	32.6	590	13.7	6.0	0.001	0.10	0.38	5.2	1.3	0.2	62.0	<0.01	0.07	1.7
ZZ31794		0.15	30.5	600	15.4	6.9	<0.001	0.07	0.41	7.3	1.5	0.3	58.6	<0.01	0.07	2.1
ZZ31795		0.17	27.8	550	14.7	6.3	<0.001	0.07	0.37	6.5	1.4	0.3	58.3	<0.01	0.08	1.9
ZZ31796		0.15	36.7	570	17.0	6.2	<0.001	0.05	0.43	11.2	1.5	0.3	46.8	<0.01	0.08	2.8
ZZ31797		0.33	30.8	440	16.1	5.7	<0.001	0.03	0.37	7.3	0.9	0.3	29.1	<0.01	0.07	2.2
ZZ31798		0.38	25.1	780	14.9	8.8	0.002	0.08	0.47	6.7	1.9	0.3	48.6	<0.01	0.07	1.2
ZZ31799		0.37	30.9	760	14.4	10.9	0.001	0.08	0.48	8.6	2.3	0.4	44.0	<0.01	0.08	1.2
ZZ31800		0.30	30.4	960	14.6	11.1	<0.001	0.08	0.44	8.3	1.4	0.4	33.3	<0.01	0.13	1.3
ZZ31801		0.50	31.3	650	13.1	8.9	<0.001	0.04	0.50	9.8	1.3	0.5	22.3	<0.01	0.09	1.6
ZZ31802		0.43	28.8	930	12.4	10.2	0.001	0.09	0.44	9.0	2.5	0.4	42.4	0.01	0.08	1.1
ZZ31803		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
ZZ31804		0.53	26.3	940	13.6	9.9	0.001	0.09	0.59	5.6	2.4	0.4	67.6	<0.01	0.08	1.0
ZZ31805		0.47	24.5	870	12.9	7.7	0.001	0.09	0.54	5.2	2.5	0.4	49.3	0.01	0.07	1.0
ZZ31806		0.32	29.6	660	13.4	8.9	0.001	0.06	0.50	7.0	2.1	0.3	86.9	<0.01	0.07	1.7
ZZ31807		0.36	28.4	660	13.0	8.8	<0.001	0.06	0.44	7.6	1.9	0.4	73.6	<0.01	0.07	1.5
ZZ31808		0.29	29.5	570	14.1	9.4	0.001	0.08	0.50	7.2	2.2	0.3	104.5	<0.01	0.07	1.7
ZZ31809		0.27	32.2	460	18.2	8.7	0.001	0.04	0.55	9.0	1.4	0.4	59.9	0.01	0.10	2.1
ZZ31810		0.30	30.8	830	16.1	10.2	0.001	0.07	0.57	7.7	2.0	0.4	76.8	<0.01	0.09	1.5
ZZ31811		0.22	33.6	740	16.8	7.8	0.001	0.07	0.58	8.6	1.1	0.4	54.7	<0.01	0.08	2.8
ZZ31812		0.24	33.3	450	15.4	8.7	<0.001	0.03	0.53	6.5	0.8	0.4	48.9	<0.01	0.08	2.7
ZZ31813		0.88	23.5	330	15.3	10.9	<0.001	<0.01	0.54	5.4	0.5	0.8	9.3	<0.01	0.12	3.5
ZZ31814		0.31	24.8	1250	12.1	9.8	0.004	0.23	0.62	5.8	5.5	0.3	117.5	0.01	0.07	0.7
ZZ31815		1.44	15.5	230	14.7	11.5	<0.001	<0.01	0.51	2.8	0.4	0.8	9.6	<0.01	0.06	3.9
ZZ31816		0.22	34.5	570	17.7	7.5	<0.001	0.07	0.51	6.8	1.1	0.3	50.3	<0.01	0.06	3.2
ZZ31817		0.30	34.4	690	21.7	8.1	0.002	0.06	0.43	7.0	2.3	0.3	60.2	<0.01	0.05	3.3
ZZ31818		0.63	30.0	240	17.9	9.7	<0.001	<0.01	0.48	3.8	0.4	0.6	6.6	<0.01	0.06	4.2
ZZ31819		0.36	23.4	930	21.9	9.1	0.002	0.19	0.42	4.4	2.7	0.4	96.3	<0.01	0.06	1.2
ZZ31820		0.36	21.9	1010	16.6	6.1	0.001	0.17	0.55	2.8	2.8	0.3	124.5	<0.01	0.05	0.7
ZZ31821		0.13	25.1	550	15.2	4.2	<0.001	0.04	0.55	4.2	1.0	0.2	51.0	<0.01	0.05	1.4
ZZ31822		0.19	34.9	500	18.5	5.9	<0.001	0.02	0.51	5.9	0.6	0.3	42.3	<0.01	0.06	4.8
ZZ31823		0.70	11.4	250	11.0	6.0	<0.001	<0.01	0.36	2.6	0.3	0.7	10.2	<0.01	0.05	2.3
ZZ31824		0.64	15.1	1680	8.9	5.1	<0.001	0.15	0.41	3.8	2.1	0.4	95.5	0.01	0.04	0.4
ZZ31825		0.37	32.9	990	19.7	11.8	<0.001	0.07	0.84	5.3	2.7	0.4	81.4	<0.01	0.07	1.5

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31786		0.011	0.09	1.17	37	0.07	13.80	81	1.9
ZZ31787		<0.005	0.08	0.98	36	0.05	5.82	66	1.9
ZZ31788		0.005	0.11	0.51	36	<0.05	10.25	87	1.8
ZZ31789		0.005	0.13	0.58	41	<0.05	12.10	89	1.8
ZZ31790		0.006	0.15	0.92	40	<0.05	11.80	96	2.0
ZZ31791		0.006	0.16	0.99	40	0.05	12.05	101	2.2
ZZ31792		<0.005	0.06	0.89	39	<0.05	9.17	89	2.5
ZZ31793		<0.005	0.05	1.04	29	<0.05	8.59	75	2.7
ZZ31794		<0.005	0.06	0.93	35	<0.05	9.48	82	2.9
ZZ31795		0.005	0.06	0.62	34	<0.05	8.53	86	2.7
ZZ31796		<0.005	0.06	0.65	45	<0.05	11.85	87	2.8
ZZ31797		0.011	0.07	0.65	41	0.05	7.12	75	1.4
ZZ31798		0.011	0.08	1.24	42	0.11	9.81	84	1.3
ZZ31799		0.009	0.10	0.97	49	0.06	11.55	94	1.4
ZZ31800		0.007	0.10	0.92	51	0.07	12.30	83	1.8
ZZ31801		0.017	0.10	0.78	53	0.11	11.20	80	1.2
ZZ31802		0.009	0.10	1.08	41	0.09	20.3	60	1.9
ZZ31803		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
ZZ31804		0.010	0.10	1.31	40	0.08	10.30	99	2.1
ZZ31805		0.012	0.08	1.15	36	0.07	9.98	73	1.7
ZZ31806		0.006	0.09	0.94	35	0.05	8.84	101	2.5
ZZ31807		0.007	0.09	0.85	37	0.05	10.25	87	2.0
ZZ31808		0.006	0.09	1.20	35	0.05	10.25	82	2.4
ZZ31809		0.005	0.16	1.41	39	0.07	14.05	70	2.4
ZZ31810		0.005	0.14	1.46	38	0.05	11.75	102	2.1
ZZ31811		0.005	0.13	0.72	35	0.05	11.00	89	2.7
ZZ31812		<0.005	0.08	0.61	37	<0.05	7.95	74	3.1
ZZ31813		0.013	0.12	0.41	100	0.10	3.34	61	2.8
ZZ31814		0.006	0.11	5.67	31	0.06	17.45	68	1.8
ZZ31815		0.027	0.14	0.60	61	0.22	2.95	47	1.5
ZZ31816		<0.005	0.07	1.88	31	0.05	11.40	86	3.1
ZZ31817		0.006	0.11	1.36	33	0.07	11.55	124	3.5
ZZ31818		0.009	0.11	0.65	49	0.08	3.20	58	3.0
ZZ31819		0.005	0.21	5.11	32	0.05	10.40	94	2.5
ZZ31820		0.007	0.12	6.27	27	0.05	8.83	82	2.2
ZZ31821		<0.005	0.04	1.59	23	<0.05	7.00	65	2.0
ZZ31822		0.005	0.05	0.73	27	<0.05	9.21	91	6.0
ZZ31823		0.016	0.08	0.42	48	0.11	2.31	32	0.5
ZZ31824		0.016	0.06	1.23	29	0.11	20.7	25	1.0
ZZ31825		0.007	0.17	6.61	34	0.08	12.00	143	2.9



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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ31826		0.16	0.001	0.04	1.03	54.3	<0.2	<10	80	0.79	0.37	0.02	0.21	35.8	16.0	18
ZZ31827		0.19	0.002	0.02	1.23	14.3	<0.2	<10	100	0.38	0.30	0.08	0.31	27.6	10.5	17
ZZ31828		0.23	0.002	0.01	0.72	14.8	<0.2	<10	70	0.22	0.33	0.17	0.07	27.8	7.5	15
ZZ31829		0.21	0.002	0.13	2.04	13.0	<0.2	<10	150	1.11	0.31	0.80	0.14	26.3	16.0	28
ZZ31830		0.12	0.001	0.40	1.19	39.4	<0.2	<10	290	0.90	0.22	2.29	0.44	16.05	14.0	18
ZZ31831		0.11	0.005	0.27	1.25	47.0	<0.2	<10	280	0.87	0.25	1.64	0.42	16.70	14.3	20
ZZ31832		0.12	<0.001	0.28	1.12	96.0	<0.2	<10	700	0.89	0.23	1.52	0.90	15.45	38.1	18
ZZ31833		0.26	0.004	0.16	1.57	18.2	<0.2	<10	180	0.89	0.25	0.42	0.20	33.7	18.0	27
ZZ31834		0.22	0.003	0.03	1.76	14.6	<0.2	<10	150	0.56	0.29	0.09	0.15	29.8	9.7	27
ZZ31835		0.19	0.002	0.11	1.68	13.7	<0.2	<10	150	0.95	0.25	1.03	0.18	20.8	16.8	25

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ31826		1.39	41.8	4.61	3.58	0.11	0.02	0.11	0.050	0.05	15.2	14.4	0.08	514	9.34	<0.01
ZZ31827		1.03	31.9	3.77	6.75	0.08	0.02	0.03	0.031	0.04	13.5	19.7	0.22	216	1.31	<0.01
ZZ31828		1.01	20.0	3.70	8.75	0.08	0.05	0.01	0.023	0.05	13.4	8.3	0.18	277	1.26	<0.01
ZZ31829		1.32	44.7	4.01	5.87	0.10	0.15	0.10	0.033	0.13	13.0	59.1	0.85	625	0.70	<0.01
ZZ31830		1.16	48.2	3.18	3.47	0.09	0.10	0.16	0.030	0.10	7.5	22.9	0.48	1080	1.04	0.01
ZZ31831		0.70	47.0	3.72	3.83	0.08	0.09	0.13	0.035	0.11	7.7	24.2	0.60	711	1.15	0.01
ZZ31832		1.09	42.2	8.02	3.85	0.12	0.09	0.13	0.034	0.11	7.0	20.6	0.54	5830	2.98	0.01
ZZ31833		1.48	83.2	3.87	5.46	0.11	0.06	0.12	0.037	0.06	16.2	32.1	0.75	732	0.83	<0.01
ZZ31834		1.56	13.0	3.68	6.60	0.08	0.07	0.02	0.033	0.06	14.8	31.9	0.37	281	2.11	<0.01
ZZ31835		1.41	66.4	4.23	5.25	0.10	0.10	0.12	0.038	0.10	10.0	37.8	0.74	476	0.66	<0.01

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**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm	ME- MS41 Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ31826		0.58	27.2	320	24.5	8.9	<0.001	<0.01	1.42	4.3	0.7	0.6	3.9	<0.01	0.08	4.1
ZZ31827		0.50	18.3	280	15.0	6.6	<0.001	<0.01	0.74	3.2	0.3	0.6	7.8	<0.01	0.07	2.7
ZZ31828		1.04	10.7	210	13.4	11.0	<0.001	<0.01	0.60	2.3	0.3	0.7	10.9	<0.01	0.07	3.6
ZZ31829		0.34	35.3	750	17.5	10.2	<0.001	0.02	0.47	6.1	0.9	0.4	53.1	<0.01	0.05	4.3
ZZ31830		0.26	28.7	790	22.6	10.6	0.001	0.09	0.75	4.6	3.0	0.3	82.2	<0.01	0.07	1.4
ZZ31831		0.29	27.7	590	27.1	10.4	0.003	0.08	0.71	5.6	2.9	0.4	69.1	<0.01	0.07	2.2
ZZ31832		0.27	39.8	930	25.6	12.7	0.007	0.14	0.83	5.9	2.9	0.4	71.3	<0.01	0.11	2.2
ZZ31833		0.58	34.1	720	14.5	7.4	<0.001	<0.01	0.52	9.8	0.9	0.4	26.2	<0.01	0.05	3.9
ZZ31834		1.59	19.8	260	15.9	13.0	<0.001	<0.01	0.80	3.1	0.5	0.8	10.6	<0.01	0.05	4.8
ZZ31835		0.26	33.5	590	13.8	8.6	<0.001	0.04	0.47	8.2	1.2	0.4	43.9	0.01	0.08	2.4

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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223911**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ31826		0.007	0.28	0.40	38	0.09	3.64	55	0.8
ZZ31827		0.010	0.07	0.42	50	0.08	2.89	43	0.7
ZZ31828		0.036	0.10	0.38	69	0.10	1.90	43	2.5
ZZ31829		0.007	0.08	1.34	30	0.07	11.90	90	4.9
ZZ31830		<0.005	0.21	3.91	28	0.05	11.35	144	3.0
ZZ31831		<0.005	0.19	3.57	34	0.05	9.71	175	2.9
ZZ31832		<0.005	0.28	3.13	33	0.06	9.14	220	2.6
ZZ31833		0.019	0.09	0.80	49	0.13	13.00	82	1.4
ZZ31834		0.037	0.15	0.68	62	0.25	3.46	60	3.2
ZZ31835		0.005	0.08	0.71	41	<0.05	11.35	91	2.8



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**CERTIFICATE OF ANALYSIS WH12223911**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12223913**

Project: AtacRegional- AreaB- RacklaCntrl  
 P.O. No.: Soil 40  
 This report is for 180 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

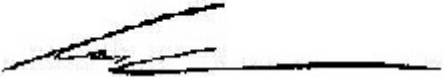
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ34546		0.14	0.004	0.17	1.36	16.9	<0.2	<10	180	1.02	0.27	1.27	0.28	17.55	11.5	21
ZZ34547		0.15	0.007	0.11	2.46	14.0	<0.2	<10	290	1.38	0.30	0.35	0.26	23.9	27.2	38
ZZ34548		0.17	0.010	0.12	2.08	8.7	<0.2	<10	390	1.02	0.24	1.00	0.21	12.30	18.1	35
ZZ34549		0.16	0.002	0.06	2.96	16.2	<0.2	<10	220	1.26	0.27	0.12	0.27	18.35	28.5	43
ZZ34550		0.16	0.005	0.04	1.90	7.7	<0.2	<10	140	0.44	0.30	0.06	0.21	17.05	16.0	37
ZZ34551		0.14	0.002	0.13	1.79	14.7	<0.2	<10	280	0.80	0.26	0.69	0.25	19.35	12.5	30
ZZ34552		0.08	NSS	0.19	1.47	6.5	<0.2	<10	630	0.85	0.22	1.66	0.60	22.1	12.2	21
ZZ34553		0.12	0.007	0.10	1.88	7.2	<0.2	<10	210	0.81	0.25	0.35	0.24	17.70	13.2	30
ZZ34554		0.15	0.010	0.19	1.53	8.1	<0.2	<10	410	0.80	0.21	1.67	0.36	17.10	13.5	24
ZZ34555		0.22	0.004	0.05	1.54	11.5	<0.2	<10	50	1.19	0.53	0.05	0.25	13.00	20.0	20
ZZ34556		0.21	0.002	0.05	1.74	12.6	<0.2	<10	270	0.98	0.34	0.34	0.18	19.55	14.2	27
ZZ34557		0.21	0.008	0.08	1.58	17.3	<0.2	<10	340	1.04	0.35	0.40	0.50	22.3	33.1	24
ZZ34558		0.14	0.008	0.19	1.45	5.7	<0.2	<10	340	0.80	0.21	1.62	0.32	17.65	12.0	24
ZZ34559		0.16	0.007	0.15	1.31	21.5	<0.2	<10	250	0.78	0.23	0.81	0.36	23.4	11.7	21
ZZ34560		0.22	0.007	0.18	1.70	9.9	<0.2	<10	450	1.11	0.25	2.10	0.86	22.1	19.6	25
ZZ34561		0.10	0.007	0.12	1.33	8.5	<0.2	<10	400	0.84	0.24	2.01	0.56	19.65	14.0	20
ZZ34562		0.20	0.004	0.28	1.51	9.4	<0.2	<10	290	0.95	0.24	1.60	0.41	17.75	14.5	22
ZZ34563		0.14	0.004	0.13	1.80	14.0	<0.2	<10	150	0.89	0.27	1.23	0.18	16.65	12.7	26
ZZ34564		0.28	0.003	0.12	1.87	14.3	<0.2	<10	120	1.04	0.29	0.74	0.25	22.3	20.2	28
ZZ34565		0.30	0.003	0.08	1.67	11.5	<0.2	<10	110	0.88	0.25	1.02	0.19	18.75	16.7	24
ZZ34566		0.40	0.004	0.10	1.88	13.0	<0.2	<10	120	0.93	0.30	0.63	0.21	24.3	17.7	27
ZZ34567		0.20	0.003	0.09	1.77	11.6	<0.2	<10	120	0.90	0.25	1.07	0.15	18.25	14.6	25
ZZ34568		0.26	0.003	0.08	1.90	10.7	<0.2	<10	150	1.03	0.28	0.73	0.17	21.2	15.3	27
ZZ34569		0.31	0.003	0.08	1.90	10.8	<0.2	<10	130	0.88	0.26	0.75	0.12	19.25	12.1	27
ZZ34570		0.11	0.008	0.09	1.72	9.6	<0.2	<10	150	0.89	0.25	1.45	0.18	16.10	10.4	25
ZZ34571		0.14	0.003	0.09	1.67	9.4	<0.2	<10	170	0.81	0.24	1.06	0.27	18.40	13.3	24
ZZ34572		0.15	0.008	0.14	1.49	12.8	<0.2	<10	180	0.93	0.21	1.35	0.38	15.70	11.2	19
ZZ34573		0.28	0.004	0.04	2.17	16.4	<0.2	<10	130	1.29	0.29	0.07	0.21	26.9	17.4	29
ZZ34574		0.19	0.002	0.08	1.92	13.1	<0.2	<10	280	0.73	0.27	0.23	0.07	33.6	10.1	30
ZZ34575		0.30	0.002	0.06	2.70	19.7	<0.2	<10	210	1.15	0.34	0.10	0.21	27.1	19.9	35
ZZ34576		0.22	0.003	0.23	2.42	18.4	<0.2	<10	210	1.71	0.32	0.46	0.23	41.1	23.2	33
ZZ34577		0.17	<0.001	0.07	1.98	16.6	<0.2	<10	150	1.02	0.34	0.43	0.35	33.7	22.6	28
ZZ34578		0.21	0.004	0.14	1.68	11.1	<0.2	<10	160	0.79	0.29	0.47	0.18	27.4	13.8	28
ZZ34579		0.23	0.003	0.10	1.92	11.0	<0.2	<10	150	0.96	0.26	0.56	0.17	24.4	16.2	28
ZZ34580		0.17	0.002	0.08	1.65	21.8	<0.2	<10	110	0.66	0.27	0.29	0.26	19.40	10.3	23
ZZ34581		0.20	0.003	0.04	1.57	13.8	<0.2	<10	200	0.43	0.29	0.12	0.37	16.65	13.7	25
ZZ34582		0.17	0.003	0.07	2.11	15.1	<0.2	<10	120	1.01	0.32	0.20	0.19	25.0	17.9	31
ZZ34583		0.19	0.003	0.06	1.58	11.1	<0.2	<10	120	0.75	0.25	0.60	0.14	22.0	14.2	24
ZZ34584		0.15	0.002	0.19	1.49	9.1	<0.2	<10	210	0.79	0.24	1.78	0.39	18.80	9.4	23
ZZ34585		0.33	0.003	0.13	1.74	8.6	<0.2	<10	160	0.85	0.26	0.78	0.29	26.2	15.0	28

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 Account: RCM

Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ34546		2.69	56.3	3.69	4.15	0.08	0.07	0.20	0.045	0.08	7.9	28.4	0.55	268	1.08	0.01
ZZ34547		7.18	115.0	6.53	8.09	0.14	0.08	0.11	0.084	0.09	8.7	49.1	1.06	1240	0.81	<0.01
ZZ34548		1.97	113.0	4.86	6.43	0.05	0.06	0.08	0.056	0.06	6.2	26.0	0.96	492	0.76	<0.01
ZZ34549		3.50	111.5	6.41	8.64	<0.05	0.04	0.16	0.073	0.08	5.7	40.2	1.12	915	0.92	<0.01
ZZ34550		1.77	71.1	5.25	9.96	<0.05	0.03	0.05	0.044	0.06	6.2	13.4	0.60	958	0.99	<0.01
ZZ34551		5.74	57.9	4.31	5.97	0.05	0.04	0.22	0.046	0.05	7.5	26.1	0.54	866	0.90	0.01
ZZ34552		3.02	51.7	2.80	4.61	0.06	0.03	0.13	0.041	0.04	11.2	13.0	0.39	1880	0.87	0.01
ZZ34553		4.07	67.7	3.99	6.93	<0.05	0.02	0.06	0.055	0.04	7.6	31.3	0.63	856	0.99	0.01
ZZ34554		3.66	82.0	2.72	4.55	0.06	0.04	0.20	0.035	0.05	10.0	18.5	0.57	815	0.93	0.01
ZZ34555		1.96	59.2	4.81	3.52	0.05	0.07	0.11	0.054	0.06	3.6	15.8	0.53	795	1.07	<0.01
ZZ34556		2.06	42.7	4.47	6.55	0.05	0.03	0.05	0.044	0.05	9.3	24.0	0.50	839	1.06	0.01
ZZ34557		1.89	123.5	6.29	4.56	0.07	0.07	0.09	0.046	0.06	7.1	27.4	0.71	1760	11.00	<0.01
ZZ34558		2.62	79.8	2.61	4.04	0.05	0.06	0.13	0.031	0.06	9.4	21.0	0.63	585	0.67	0.01
ZZ34559		2.90	54.4	4.19	3.89	0.07	0.05	0.09	0.031	0.05	8.1	21.4	0.48	1880	1.18	0.01
ZZ34560		2.57	97.7	3.88	4.28	0.06	0.05	0.17	0.042	0.07	8.5	19.4	0.72	2250	0.93	0.01
ZZ34561		3.17	59.7	2.76	3.97	0.05	0.04	0.10	0.034	0.05	9.2	14.3	0.48	1600	0.89	0.01
ZZ34562		3.03	73.5	3.36	4.09	0.05	0.07	0.12	0.031	0.08	8.5	26.2	0.72	1020	0.85	0.01
ZZ34563		1.24	73.1	4.15	5.18	<0.05	0.09	0.10	0.035	0.10	7.7	34.3	0.81	314	0.74	0.01
ZZ34564		1.24	83.6	4.40	5.47	0.07	0.12	0.14	0.034	0.11	11.1	40.5	0.87	708	0.65	<0.01
ZZ34565		1.02	67.3	3.84	4.76	0.06	0.12	0.10	0.028	0.10	8.4	38.0	0.93	527	0.54	0.01
ZZ34566		1.16	69.1	4.24	5.23	0.06	0.13	0.11	0.031	0.11	11.1	43.6	0.88	596	0.61	<0.01
ZZ34567		1.11	55.9	3.73	4.85	0.05	0.12	0.09	0.028	0.10	9.1	41.3	0.77	583	0.55	0.01
ZZ34568		1.06	62.1	3.86	5.21	0.06	0.13	0.11	0.032	0.11	10.2	44.5	0.81	1300	0.59	<0.01
ZZ34569		1.03	53.5	3.80	5.08	<0.05	0.12	0.10	0.029	0.10	10.1	44.2	0.81	409	0.59	<0.01
ZZ34570		1.04	50.0	3.35	4.41	<0.05	0.12	0.09	0.028	0.09	8.0	34.7	0.71	401	0.58	0.01
ZZ34571		1.02	45.4	3.34	4.79	<0.05	0.11	0.10	0.029	0.09	8.4	40.3	0.70	769	0.52	0.01
ZZ34572		0.92	75.0	3.33	4.06	<0.05	0.14	0.13	0.024	0.07	6.8	27.1	0.50	1320	0.52	0.01
ZZ34573		0.98	63.3	4.53	5.03	0.05	0.06	0.11	0.038	0.05	10.8	44.9	0.80	665	0.60	<0.01
ZZ34574		1.27	19.4	3.12	5.41	0.06	0.03	0.04	0.026	0.04	17.0	20.0	0.52	335	1.20	0.01
ZZ34575		1.43	51.2	5.03	5.96	0.05	0.07	0.03	0.041	0.07	10.2	49.0	0.86	828	1.09	<0.01
ZZ34576		1.18	79.6	5.60	5.55	0.10	0.14	0.14	0.039	0.08	21.9	48.2	0.86	1240	0.73	<0.01
ZZ34577		1.86	36.5	4.79	5.19	<0.05	0.05	0.03	0.046	0.06	9.7	47.2	0.67	1300	0.82	0.01
ZZ34578		0.92	52.4	3.58	4.71	0.06	0.07	0.09	0.026	0.07	14.2	34.2	0.76	423	0.74	0.01
ZZ34579		0.82	60.5	4.01	5.38	0.06	0.11	0.07	0.032	0.08	12.3	41.2	0.89	501	0.59	<0.01
ZZ34580		1.15	27.2	4.29	5.58	<0.05	0.05	0.06	0.031	0.06	6.8	41.1	0.47	528	1.07	<0.01
ZZ34581		1.43	22.0	3.91	5.27	<0.05	0.05	0.02	0.026	0.06	7.9	40.0	0.46	919	1.11	<0.01
ZZ34582		1.47	70.2	4.73	5.83	0.05	0.09	0.09	0.035	0.10	11.7	41.5	0.85	658	0.63	<0.01
ZZ34583		0.65	36.7	3.64	4.45	0.06	0.10	0.09	0.026	0.06	9.9	39.0	0.77	411	0.51	<0.01
ZZ34584		0.81	45.2	2.89	4.55	0.05	0.05	0.14	0.028	0.05	8.8	25.3	0.50	512	0.68	0.01
ZZ34585		0.66	58.1	3.71	5.19	0.07	0.09	0.13	0.035	0.07	11.8	43.1	0.89	406	0.48	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ34546		0.37	26.2	890	18.2	15.1	0.003	0.09	0.52	6.8	3.2	0.5	69.3	0.01	0.07	1.2
ZZ34547		0.38	42.2	600	14.9	11.4	<0.001	0.02	0.44	21.4	1.3	0.7	14.3	0.01	0.17	2.8
ZZ34548		0.29	33.7	820	9.5	6.1	<0.001	0.05	0.38	17.0	1.2	0.6	26.1	<0.01	0.15	1.2
ZZ34549		0.27	37.3	390	14.2	10.4	<0.001	0.02	0.40	12.2	0.7	0.7	7.2	<0.01	0.16	2.2
ZZ34550		0.57	19.5	620	12.0	11.3	<0.001	0.01	0.48	6.5	0.5	0.8	5.8	<0.01	0.15	1.7
ZZ34551		0.53	25.1	790	12.2	8.2	<0.001	0.04	0.46	8.4	1.0	0.5	21.5	<0.01	0.10	1.3
ZZ34552		0.50	16.4	1350	12.5	6.6	0.001	0.13	0.42	7.7	1.4	0.4	38.0	<0.01	0.06	0.5
ZZ34553		0.71	18.6	580	12.4	5.8	<0.001	0.04	0.36	7.6	0.5	0.6	11.2	<0.01	0.06	1.4
ZZ34554		0.56	21.4	1230	11.1	9.2	0.001	0.13	0.57	7.5	2.9	0.4	37.9	<0.01	0.04	0.6
ZZ34555		0.14	30.4	340	15.2	5.7	0.001	0.01	0.27	7.7	1.0	0.3	4.1	<0.01	0.23	2.8
ZZ34556		0.55	21.9	650	16.4	9.2	<0.001	0.03	0.48	5.5	1.0	0.6	11.2	<0.01	0.09	1.5
ZZ34557		0.14	43.1	370	90.2	5.3	0.001	0.02	0.47	13.1	1.1	0.3	12.7	<0.01	0.13	2.7
ZZ34558		0.53	22.3	830	9.7	7.1	<0.001	0.08	0.38	8.1	2.3	0.4	32.1	<0.01	0.05	1.0
ZZ34559		0.34	21.2	810	28.0	6.4	<0.001	0.05	0.62	7.6	2.1	0.3	23.5	<0.01	0.04	1.9
ZZ34560		0.34	24.4	1100	16.0	7.8	<0.001	0.12	0.53	7.1	2.6	0.4	41.8	<0.01	0.09	0.6
ZZ34561		0.54	16.2	1070	15.4	5.7	<0.001	0.12	0.48	5.2	2.0	0.4	43.9	<0.01	0.07	0.5
ZZ34562		0.28	24.5	850	16.3	7.7	0.001	0.09	0.48	6.5	2.6	0.3	37.6	<0.01	0.06	0.9
ZZ34563		0.19	31.7	630	13.0	7.0	0.001	0.07	0.49	7.2	1.9	0.5	48.1	<0.01	0.08	1.6
ZZ34564		0.16	38.0	530	16.3	6.1	<0.001	0.02	0.51	9.1	1.1	0.3	36.6	<0.01	0.07	3.3
ZZ34565		0.12	31.8	550	14.8	5.3	0.001	0.04	0.48	6.6	1.4	0.3	70.3	<0.01	0.09	2.5
ZZ34566		0.14	34.4	590	17.5	5.8	<0.001	0.02	0.52	7.4	0.8	0.3	36.1	<0.01	0.06	3.6
ZZ34567		0.14	30.8	540	14.7	6.3	<0.001	0.05	0.50	6.0	1.1	0.3	51.6	<0.01	0.07	2.3
ZZ34568		0.15	37.0	460	15.3	6.3	<0.001	0.03	0.49	7.0	0.8	0.3	38.1	<0.01	0.04	3.1
ZZ34569		0.15	30.2	580	13.5	6.4	<0.001	0.04	0.55	6.0	0.6	0.3	38.5	<0.01	0.05	2.5
ZZ34570		0.18	26.8	690	11.9	6.9	<0.001	0.07	0.49	5.0	1.1	0.3	64.8	<0.01	0.04	1.5
ZZ34571		0.17	28.1	630	13.7	6.9	0.002	0.08	0.43	5.8	1.0	0.3	52.4	<0.01	0.05	2.4
ZZ34572		0.24	24.9	810	10.2	5.6	0.002	0.20	0.62	5.2	1.7	0.3	63.3	<0.01	0.06	1.6
ZZ34573		0.07	35.8	270	18.2	6.3	<0.001	0.01	0.57	6.3	0.5	0.3	9.3	<0.01	0.06	4.8
ZZ34574		0.84	26.1	550	15.3	7.8	<0.001	0.01	0.63	4.6	0.7	0.6	18.4	<0.01	0.03	3.7
ZZ34575		0.28	46.0	490	22.1	9.5	0.001	0.01	0.76	5.5	0.5	0.4	13.8	<0.01	0.07	4.7
ZZ34576		0.10	42.2	590	28.0	6.9	<0.001	0.02	0.60	17.9	1.4	0.3	36.7	<0.01	0.06	6.2
ZZ34577		0.22	33.9	580	26.5	9.3	<0.001	0.02	0.58	5.4	0.5	0.3	27.9	<0.01	0.05	4.1
ZZ34578		0.42	31.3	610	14.9	5.4	<0.001	0.01	0.54	6.6	0.9	0.3	28.8	<0.01	0.05	3.6
ZZ34579		0.17	33.8	430	14.4	5.5	<0.001	0.02	0.48	6.7	0.9	0.3	31.1	<0.01	0.05	2.8
ZZ34580		0.17	22.9	520	14.0	8.2	<0.001	0.02	0.46	4.2	0.5	0.7	22.2	<0.01	0.06	2.7
ZZ34581		0.54	18.5	420	15.4	11.5	<0.001	0.01	0.65	2.8	0.3	0.4	14.8	<0.01	0.05	2.6
ZZ34582		0.16	32.2	550	17.1	7.6	<0.001	0.01	0.50	7.0	0.8	0.4	14.6	<0.01	0.07	3.6
ZZ34583		0.09	30.1	520	14.1	3.8	<0.001	0.02	0.41	5.2	0.5	0.2	31.2	<0.01	0.04	2.9
ZZ34584		0.51	22.3	980	15.1	7.4	0.002	0.09	0.58	2.7	1.7	0.4	78.8	<0.01	0.04	0.8
ZZ34585		0.21	32.4	650	16.7	6.3	0.001	0.04	0.49	6.2	1.6	0.3	38.7	<0.01	0.04	2.7





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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ34546		0.007	0.12	2.71	34	0.08	14.80	94	1.5
ZZ34547		0.008	0.11	0.52	83	0.06	17.40	76	1.5
ZZ34548		0.011	0.08	0.51	74	0.07	18.60	66	1.1
ZZ34549		0.008	0.12	0.34	101	0.05	6.00	84	1.1
ZZ34550		0.019	0.07	0.41	122	0.08	2.92	63	0.7
ZZ34551		0.019	0.11	0.53	69	0.13	10.35	65	0.6
ZZ34552		0.019	0.11	0.81	46	0.09	20.7	42	0.7
ZZ34553		0.022	0.13	0.47	72	0.12	7.21	53	<0.5
ZZ34554		0.017	0.11	1.12	42	0.09	18.85	68	0.9
ZZ34555		<0.005	0.13	0.41	33	<0.05	9.44	70	1.9
ZZ34556		0.016	0.10	0.49	61	0.12	9.89	62	0.7
ZZ34557		0.006	0.10	0.38	49	<0.05	13.80	86	1.4
ZZ34558		0.018	0.10	0.84	37	0.07	16.80	61	1.0
ZZ34559		0.015	0.16	0.99	41	0.07	14.95	55	1.0
ZZ34560		0.012	0.10	1.28	47	0.07	17.60	102	1.0
ZZ34561		0.019	0.09	0.98	38	0.08	14.75	56	0.8
ZZ34562		0.010	0.08	1.08	34	0.07	14.40	80	1.2
ZZ34563		0.005	0.07	0.79	45	<0.05	8.00	78	2.0
ZZ34564		0.005	0.07	0.79	44	0.07	11.55	84	3.1
ZZ34565		<0.005	0.06	0.79	36	<0.05	8.66	84	2.9
ZZ34566		0.005	0.06	0.76	37	<0.05	10.05	87	3.5
ZZ34567		<0.005	0.06	0.87	33	<0.05	9.68	81	3.0
ZZ34568		0.005	0.06	1.04	35	<0.05	11.30	85	3.2
ZZ34569		0.005	0.06	1.24	35	<0.05	9.95	85	2.7
ZZ34570		0.006	0.07	0.90	33	<0.05	10.25	81	2.6
ZZ34571		<0.005	0.06	1.19	33	<0.05	8.25	82	2.6
ZZ34572		0.006	0.07	1.83	27	<0.05	9.61	58	3.4
ZZ34573		<0.005	0.08	0.75	37	<0.05	5.98	76	1.9
ZZ34574		0.026	0.13	1.69	52	0.25	8.48	61	0.7
ZZ34575		0.007	0.12	0.71	48	0.11	5.36	87	2.6
ZZ34576		<0.005	0.08	1.61	41	<0.05	32.1	85	3.5
ZZ34577		0.006	0.09	0.99	36	<0.05	7.00	103	2.0
ZZ34578		0.018	0.07	0.77	40	0.10	11.90	86	1.7
ZZ34579		0.006	0.06	0.86	39	0.05	11.65	84	2.5
ZZ34580		<0.005	0.09	0.79	43	<0.05	4.88	83	1.9
ZZ34581		0.012	0.09	0.41	46	0.10	2.13	122	1.1
ZZ34582		0.005	0.09	0.67	47	<0.05	5.63	91	2.2
ZZ34583		<0.005	0.04	0.97	31	<0.05	7.71	74	2.4
ZZ34584		0.013	0.06	1.50	38	0.14	8.50	55	1.4
ZZ34585		0.006	0.06	0.95	37	<0.05	11.05	97	2.4



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ34586		0.25	0.003	0.12	1.77	9.6	<0.2	<10	180	0.83	0.26	0.50	0.21	28.1	14.3	28
ZZ34587		0.23	0.003	0.11	1.88	15.4	<0.2	<10	180	0.98	0.28	0.40	0.35	23.9	18.7	28
ZZ34588		0.27	0.004	0.09	1.96	13.1	<0.2	<10	150	0.98	0.30	0.49	0.24	25.6	18.7	28
ZZ34589		0.20	0.003	0.07	1.74	12.0	<0.2	<10	120	0.95	0.27	0.47	0.19	23.0	21.2	26
ZZ34590		0.19	0.003	0.10	2.10	16.7	<0.2	<10	130	1.26	0.30	0.50	0.14	26.3	19.5	31
ZZ34591		0.21	NSS	0.08	1.70	10.3	<0.2	10	140	0.83	0.24	1.41	0.14	17.05	14.0	24
ZZ34592		0.24	0.005	0.08	1.65	10.8	<0.2	<10	140	0.89	0.23	1.32	0.20	18.35	16.2	23
ZZ34593		0.26	0.004	0.09	1.94	13.7	<0.2	<10	130	1.07	0.27	0.60	0.15	27.9	20.6	29
ZZ34594		0.35	0.004	0.10	1.98	13.4	<0.2	<10	140	0.97	0.26	0.82	0.25	25.9	22.7	30
ZZ34595		0.25	0.002	0.08	2.12	13.9	<0.2	<10	140	1.06	0.30	0.33	0.17	29.1	23.7	31
ZZ34596		0.28	0.005	0.14	1.82	14.0	<0.2	<10	180	0.90	0.25	0.91	0.23	19.75	16.8	28
ZZ34597		0.19	0.004	0.12	1.74	13.7	<0.2	<10	180	0.91	0.26	0.95	0.24	20.9	20.1	29
ZZ34598		0.14	0.003	0.12	1.65	12.7	<0.2	<10	260	0.94	0.23	1.72	0.29	17.35	16.9	25
ZZ35041		0.29	0.002	0.31	1.25	9.8	<0.2	<10	360	0.88	0.21	1.09	1.26	13.60	10.0	21
ZZ35042		0.20	0.001	0.35	1.32	11.0	<0.2	<10	410	0.81	0.21	1.10	0.55	10.30	11.4	21
ZZ35043		0.22	<0.001	0.48	1.27	10.0	<0.2	<10	410	0.74	0.20	1.18	0.74	8.53	10.5	20
ZZ35044		0.24	<0.001	0.20	1.52	8.1	<0.2	<10	310	0.71	0.22	0.58	0.15	29.1	14.0	22
ZZ35045		0.21	0.002	0.19	1.85	7.6	<0.2	<10	230	0.79	0.16	0.46	0.32	44.0	20.0	26
ZZ35046		0.12	0.002	0.27	1.90	8.5	<0.2	<10	270	0.85	0.16	0.96	0.53	51.2	18.9	27
ZZ35047		0.17	0.001	0.24	1.93	9.1	<0.2	<10	270	0.94	0.16	0.83	0.27	55.0	16.8	30
ZZ35048		0.32	0.001	0.15	2.00	7.8	<0.2	<10	230	0.98	0.13	1.15	0.19	51.3	16.1	40
ZZ35049		0.28	0.003	0.21	1.65	8.5	<0.2	<10	170	0.96	0.14	1.33	0.43	50.6	15.2	41
ZZ35050		0.14	0.003	0.18	1.42	8.4	<0.2	<10	170	0.79	0.16	1.55	0.31	38.1	10.9	35
ZZ35051		0.25	0.004	0.25	1.85	7.2	<0.2	<10	150	0.98	0.15	1.39	0.41	70.4	17.2	57
ZZ35052		0.13	0.004	0.13	1.36	5.8	<0.2	<10	150	0.57	0.15	0.57	0.46	32.7	10.8	29
ZZ35053		0.21	0.005	0.18	1.19	5.9	<0.2	<10	230	0.71	0.13	1.47	0.27	30.6	8.8	27
ZZ35054		0.24	0.005	0.17	0.93	11.6	<0.2	<10	250	0.71	0.19	1.25	0.59	21.1	9.1	15
ZZ35055		0.25	0.002	0.04	0.40	4.0	<0.2	<10	130	0.85	0.21	2.91	0.17	11.15	9.2	7
ZZ35056		0.28	0.001	0.01	0.65	6.9	<0.2	<10	70	0.54	0.22	0.29	0.03	13.55	6.2	10
ZZ35057		0.18	<0.001	0.10	1.35	5.1	<0.2	<10	410	1.12	0.23	1.82	0.16	20.9	13.9	15
ZZ35058		0.20	0.004	0.16	0.64	60.2	<0.2	<10	90	0.93	0.19	3.76	0.20	23.0	11.0	17
ZZ35059		0.19	0.001	0.15	0.84	22.2	<0.2	<10	260	0.64	0.14	8.83	0.38	18.30	6.7	12
ZZ35071		0.16	<0.001	0.08	1.06	6.7	<0.2	<10	110	0.40	0.24	0.68	0.36	12.50	9.5	20
ZZ35072		0.23	0.008	2.94	1.04	333	<0.2	<10	500	3.13	0.25	0.16	3.39	22.7	16.2	33
ZZ35073		0.21	0.010	4.32	0.50	228	<0.2	<10	380	0.86	0.23	0.16	2.92	13.15	6.3	27
ZZ35074		0.23	0.007	4.10	0.55	238	<0.2	<10	870	0.95	0.27	0.22	4.19	13.75	9.4	35
ZZ35075		0.21	0.010	4.75	0.92	364	<0.2	<10	560	2.03	0.32	0.12	1.99	21.8	5.6	40
ZZ35076		0.23	0.007	1.73	0.50	131.5	<0.2	<10	280	0.97	0.25	0.09	1.71	14.90	11.3	17
ZZ35077		0.19	0.010	1.29	0.72	211	<0.2	<10	350	1.13	0.23	0.55	3.15	22.0	9.3	15
ZZ35078		0.23	0.003	0.56	0.58	70.9	<0.2	<10	350	0.66	0.25	0.75	0.89	8.40	4.4	10



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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
ZZ34586	0.71	40.5	3.71	5.15	0.06	0.06	0.07	0.034	0.05	12.2	31.9	0.76	430	0.60	0.01	
ZZ34587	1.33	61.5	4.70	5.68	0.07	0.11	0.13	0.042	0.11	10.9	40.2	0.83	425	0.67	0.01	
ZZ34588	1.25	68.7	4.47	5.71	0.06	0.09	0.12	0.035	0.12	11.8	47.0	0.89	435	0.62	0.01	
ZZ34589	1.02	63.2	4.27	5.08	0.06	0.10	0.10	0.028	0.10	10.6	37.9	0.82	695	0.64	<0.01	
ZZ34590	1.47	85.6	5.45	6.14	0.08	0.12	0.14	0.041	0.14	12.2	45.2	0.99	338	0.81	0.01	
ZZ34591	1.05	68.4	3.82	4.54	0.06	0.10	0.10	0.026	0.12	8.2	35.6	0.88	435	0.60	0.01	
ZZ34592	0.99	68.8	3.82	4.72	<0.05	0.08	0.09	0.031	0.12	8.2	33.3	0.76	557	0.57	0.01	
ZZ34593	1.24	83.4	4.83	5.98	0.07	0.10	0.11	0.036	0.13	12.3	40.8	0.93	605	0.62	0.01	
ZZ34594	1.34	81.9	5.01	5.66	0.07	0.10	0.12	0.035	0.14	11.9	39.0	0.98	1080	0.76	0.01	
ZZ34595	1.31	83.3	5.12	5.99	0.08	0.11	0.11	0.039	0.13	12.5	45.8	1.02	947	0.62	0.01	
ZZ34596	1.49	77.7	4.60	5.25	0.07	0.08	0.15	0.037	0.10	9.3	28.9	0.87	615	0.76	0.01	
ZZ34597	1.30	93.3	4.77	5.24	0.07	0.07	0.13	0.033	0.10	9.7	27.1	0.88	625	0.71	0.01	
ZZ34598	1.51	82.3	4.16	5.18	0.07	0.06	0.14	0.040	0.09	7.6	25.3	0.91	452	0.73	0.01	
ZZ35041	0.63	36.1	2.99	3.89	0.06	0.06	0.28	0.040	0.08	6.1	17.8	0.41	302	2.64	0.01	
ZZ35042	0.64	29.0	3.17	4.02	0.05	0.06	0.36	0.041	0.08	4.6	16.6	0.38	385	3.76	<0.01	
ZZ35043	0.37	23.5	3.11	3.98	<0.05	0.03	0.23	0.034	0.11	4.2	16.3	0.35	332	3.35	0.01	
ZZ35044	0.75	20.3	3.42	5.32	0.07	0.03	0.08	0.034	0.10	14.0	19.2	0.49	664	1.77	0.01	
ZZ35045	0.79	24.8	4.40	6.81	0.08	0.04	0.06	0.040	0.11	20.9	26.5	0.76	767	1.97	0.01	
ZZ35046	0.72	32.8	4.39	6.68	0.10	0.06	0.10	0.046	0.13	24.5	28.6	0.79	847	1.74	0.01	
ZZ35047	0.69	34.0	4.34	7.51	0.10	0.04	0.07	0.051	0.12	29.1	29.5	0.77	734	2.08	0.01	
ZZ35048	1.07	23.5	4.29	7.42	0.10	0.06	0.08	0.039	0.11	24.4	30.4	0.95	555	1.85	0.01	
ZZ35049	1.03	30.5	3.61	6.35	0.10	0.06	0.23	0.042	0.10	25.9	29.3	0.89	569	1.01	0.01	
ZZ35050	0.85	23.3	3.24	4.90	0.08	0.05	0.34	0.033	0.10	20.1	21.6	0.71	365	0.91	0.01	
ZZ35051	1.70	35.4	3.61	7.54	0.12	0.05	0.09	0.038	0.10	38.4	30.8	0.94	864	1.50	0.01	
ZZ35052	1.20	18.4	2.59	4.62	0.05	0.03	0.04	0.028	0.07	16.7	14.0	0.40	288	1.20	0.01	
ZZ35053	0.96	19.3	2.46	4.39	0.05	0.04	0.15	0.021	0.08	14.2	18.8	0.60	469	0.88	0.01	
ZZ35054	0.49	24.1	2.92	2.82	0.05	0.06	0.24	0.031	0.10	7.4	9.8	0.39	269	1.34	<0.01	
ZZ35055	0.82	23.2	2.72	1.26	0.05	0.05	0.42	0.031	0.09	4.7	8.0	1.27	357	0.45	0.01	
ZZ35056	0.22	21.5	1.89	1.69	<0.05	0.02	0.09	0.018	0.05	4.3	5.1	0.10	160	0.54	<0.01	
ZZ35057	0.66	19.8	2.12	3.64	<0.05	0.06	0.16	0.026	0.05	8.3	4.5	0.12	1390	0.69	0.01	
ZZ35058	0.13	26.7	2.90	1.78	0.05	0.13	0.64	0.030	0.12	9.4	3.8	1.74	472	1.36	0.01	
ZZ35059	0.44	19.6	2.50	2.32	0.06	0.04	0.46	0.022	0.08	8.1	6.7	4.32	588	1.08	0.01	
ZZ35071	1.36	21.5	2.68	4.55	<0.05	0.02	0.03	0.018	0.05	5.9	17.2	0.37	319	0.84	<0.01	
ZZ35072	16.60	379	5.43	2.48	0.14	0.03	0.54	0.103	0.22	8.6	4.7	0.06	437	17.70	0.01	
ZZ35073	10.75	112.0	6.48	1.87	0.09	0.03	0.84	0.076	0.37	6.1	1.4	0.03	113	20.1	0.01	
ZZ35074	9.66	91.9	4.01	2.41	0.08	0.03	0.56	0.068	0.21	7.0	2.8	0.05	284	23.0	0.01	
ZZ35075	22.0	331	5.87	2.70	0.15	0.04	0.69	0.159	0.22	8.1	4.6	0.06	112	21.6	0.01	
ZZ35076	9.81	152.0	3.15	1.77	0.06	0.02	0.31	0.059	0.14	5.6	2.7	0.05	331	10.05	<0.01	
ZZ35077	6.62	75.0	2.73	2.07	0.06	0.06	0.33	0.042	0.11	11.0	6.6	0.19	389	4.13	<0.01	
ZZ35078	5.22	39.0	2.05	1.96	<0.05	0.05	0.11	0.037	0.10	3.8	2.9	0.26	127	4.11	<0.01	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ34586		0.44	28.3	520	16.5	6.8	0.001	0.03	0.44	5.3	1.4	0.4	27.5	<0.01	0.06	3.2
ZZ34587		0.18	33.0	630	19.0	8.1	0.002	0.08	0.48	7.5	2.4	0.4	30.7	<0.01	0.06	3.7
ZZ34588		0.17	33.5	620	19.2	7.4	0.001	0.03	0.51	7.8	2.2	0.3	29.3	<0.01	0.09	4.0
ZZ34589		0.13	30.5	490	16.7	6.2	0.002	0.03	0.45	6.5	1.9	0.3	30.8	<0.01	0.07	2.8
ZZ34590		0.14	35.9	560	18.7	8.2	0.001	0.03	0.52	8.4	2.7	0.4	37.0	<0.01	0.06	3.8
ZZ34591		0.13	29.2	620	13.4	6.4	0.001	0.08	0.59	5.2	2.8	0.3	66.7	<0.01	0.08	1.8
ZZ34592		0.13	29.3	560	13.8	6.5	0.002	0.07	0.59	5.4	2.0	0.3	48.6	<0.01	0.05	1.7
ZZ34593		0.12	37.6	310	17.2	6.6	0.001	0.03	0.61	8.5	1.1	0.3	28.8	<0.01	0.06	3.6
ZZ34594		0.12	37.3	580	18.8	6.9	<0.001	0.02	0.61	8.2	1.6	0.3	36.5	<0.01	0.06	3.8
ZZ34595		0.10	39.6	360	20.5	6.7	<0.001	0.02	0.56	8.2	1.1	0.3	19.6	<0.01	0.08	4.9
ZZ34596		0.17	31.4	570	14.4	7.1	0.002	0.05	0.48	8.4	1.4	0.4	30.1	<0.01	0.08	2.0
ZZ34597		0.16	34.5	540	14.8	6.5	0.001	0.05	0.60	8.9	1.8	0.3	26.9	<0.01	0.08	2.3
ZZ34598		0.24	29.5	580	13.4	7.7	0.002	0.07	0.47	8.6	2.4	0.4	46.2	<0.01	0.09	1.5
ZZ35041		0.23	43.9	790	17.0	9.0	0.005	0.06	1.21	4.3	2.5	0.5	31.2	<0.01	0.03	2.3
ZZ35042		0.22	35.3	960	14.9	9.3	0.004	0.06	1.22	3.7	2.1	0.6	31.4	<0.01	0.03	1.7
ZZ35043		0.21	31.5	640	14.1	7.8	0.003	0.04	1.14	3.6	1.6	0.5	28.3	<0.01	0.04	2.0
ZZ35044		0.29	18.4	850	20.1	9.9	<0.001	0.05	0.52	3.7	1.1	0.6	24.8	<0.01	0.06	2.6
ZZ35045		0.32	23.3	1160	18.1	11.6	<0.001	0.05	0.78	5.2	1.4	0.7	23.7	<0.01	0.01	3.1
ZZ35046		0.39	28.3	1480	17.4	10.0	0.002	0.07	0.72	6.1	2.1	0.7	46.7	<0.01	0.03	3.2
ZZ35047		0.41	27.3	1280	15.4	11.6	0.001	0.06	0.97	5.7	1.7	0.8	39.0	<0.01	0.02	2.6
ZZ35048		0.38	31.0	1180	13.5	11.9	0.002	0.08	0.57	4.8	1.0	0.7	52.7	<0.01	0.03	2.3
ZZ35049		0.42	33.1	1100	11.8	10.2	<0.001	0.10	0.65	5.2	1.9	0.6	59.3	<0.01	0.01	1.8
ZZ35050		0.36	24.6	1040	11.7	8.9	0.001	0.10	0.63	3.9	2.4	0.6	54.1	<0.01	0.01	1.3
ZZ35051		0.44	38.5	1200	16.3	10.9	0.001	0.07	0.59	6.7	1.7	0.7	65.2	<0.01	0.02	2.0
ZZ35052		0.48	16.4	1140	11.0	8.7	0.001	0.12	0.65	2.5	1.1	0.5	33.8	<0.01	0.03	0.8
ZZ35053		0.40	19.4	1110	10.3	9.9	0.001	0.13	0.43	2.5	1.9	0.5	51.1	<0.01	0.02	0.9
ZZ35054		0.22	20.3	720	13.5	7.6	<0.001	0.05	0.69	3.4	1.5	0.5	37.1	<0.01	0.03	1.4
ZZ35055		0.17	18.6	610	11.8	5.8	0.001	0.02	0.33	5.3	1.6	0.4	60.5	<0.01	0.02	3.3
ZZ35056		0.18	12.2	130	12.4	5.7	0.001	0.01	0.26	1.9	0.9	0.3	9.4	<0.01	<0.01	2.6
ZZ35057		0.37	11.7	1040	15.1	5.6	0.001	0.09	0.23	3.0	1.5	0.5	44.8	<0.01	0.02	1.3
ZZ35058		0.14	24.6	630	20.3	3.4	0.001	0.04	3.37	4.9	2.6	0.6	35.7	<0.01	0.01	3.4
ZZ35059		0.35	17.9	1500	12.8	6.7	0.001	0.07	2.02	1.6	0.9	0.3	51.0	<0.01	0.02	0.7
ZZ35071		0.60	14.1	500	13.4	7.6	<0.001	0.05	0.41	2.5	0.6	0.4	78.1	<0.01	0.03	1.4
ZZ35072		0.14	75.9	2450	51.0	21.2	0.007	0.48	7.99	10.8	14.9	0.5	142.5	<0.01	0.19	3.8
ZZ35073		0.14	45.4	2990	39.6	20.7	0.004	0.87	9.18	4.0	14.1	0.4	115.0	<0.01	0.15	2.0
ZZ35074		0.11	58.1	2450	58.2	20.2	0.005	0.41	9.21	3.6	10.5	0.5	149.5	<0.01	0.18	1.6
ZZ35075		0.14	61.0	2680	63.0	25.5	0.012	0.57	10.35	22.5	14.4	0.6	162.5	<0.01	0.21	4.5
ZZ35076		0.09	50.4	1280	30.9	16.3	0.007	0.18	5.19	5.6	6.2	0.4	57.6	<0.01	0.11	2.3
ZZ35077		0.15	54.5	1170	35.2	11.5	0.001	0.09	2.81	5.1	2.6	0.4	40.2	<0.01	0.07	2.4
ZZ35078		0.13	25.9	910	16.6	14.2	0.001	0.06	2.20	2.5	1.1	0.5	22.9	<0.01	0.07	1.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ34586		0.010	0.07	1.43	44	0.10	8.78	70	2.0
ZZ34587		<0.005	0.09	1.08	43	<0.05	10.10	94	3.6
ZZ34588		0.005	0.07	1.02	40	<0.05	10.80	95	3.5
ZZ34589		<0.005	0.06	0.70	39	<0.05	10.60	80	3.2
ZZ34590		<0.005	0.08	0.97	46	<0.05	11.20	101	4.5
ZZ34591		<0.005	0.06	1.25	36	<0.05	9.33	81	3.1
ZZ34592		<0.005	0.05	1.10	36	<0.05	8.89	84	2.5
ZZ34593		<0.005	0.07	0.55	47	<0.05	9.72	88	3.6
ZZ34594		<0.005	0.08	0.60	46	<0.05	11.15	94	3.9
ZZ34595		<0.005	0.08	0.64	43	<0.05	9.46	95	5.4
ZZ34596		0.005	0.08	0.72	48	0.14	11.15	86	2.0
ZZ34597		0.005	0.08	0.46	51	<0.05	11.35	91	2.1
ZZ34598		0.006	0.10	0.81	44	0.05	11.80	85	2.0
ZZ35041		<0.005	0.14	1.43	56	0.11	12.80	204	1.8
ZZ35042		<0.005	0.16	1.37	60	<0.05	10.40	187	1.4
ZZ35043		<0.005	0.13	1.07	60	<0.05	9.03	186	1.0
ZZ35044		<0.005	0.13	0.68	58	<0.05	7.67	104	0.8
ZZ35045		<0.005	0.13	0.57	79	0.05	8.89	123	0.9
ZZ35046		0.005	0.15	0.67	81	<0.05	13.60	140	1.5
ZZ35047		<0.005	0.15	0.60	77	0.05	14.45	111	1.2
ZZ35048		0.005	0.17	0.47	69	<0.05	9.84	106	1.3
ZZ35049		0.007	0.19	0.53	57	0.05	12.40	119	1.5
ZZ35050		0.006	0.16	1.11	47	<0.05	10.90	118	1.3
ZZ35051		0.009	0.23	0.71	63	<0.05	19.55	118	1.5
ZZ35052		0.011	0.12	0.53	41	0.07	5.92	77	0.8
ZZ35053		0.008	0.10	1.14	37	0.05	8.36	86	1.2
ZZ35054		<0.005	0.15	1.78	29	<0.05	6.58	168	1.8
ZZ35055		<0.005	0.06	0.65	11	<0.05	11.95	76	2.3
ZZ35056		<0.005	0.06	0.57	15	0.06	3.48	39	0.7
ZZ35057		0.007	0.07	3.63	30	0.09	9.27	19	1.6
ZZ35058		<0.005	0.25	1.37	26	0.05	12.25	37	3.5
ZZ35059		0.009	0.14	1.67	24	0.09	8.81	62	1.4
ZZ35071		0.019	0.06	0.44	36	0.11	2.71	59	0.8
ZZ35072		<0.005	2.17	14.40	123	0.28	58.0	469	0.9
ZZ35073		<0.005	2.26	5.17	124	0.19	21.9	246	1.2
ZZ35074		<0.005	1.83	5.43	148	0.21	16.05	365	0.7
ZZ35075		<0.005	2.47	32.1	136	0.33	43.2	364	0.8
ZZ35076		<0.005	1.04	6.83	69	0.11	25.5	318	0.5
ZZ35077		<0.005	0.65	2.27	55	0.12	23.1	347	1.8
ZZ35078		<0.005	0.37	1.20	49	0.05	6.40	205	1.0



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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ35079		0.26	0.004	0.65	0.84	276	<0.2	<10	340	1.10	0.25	0.51	2.16	27.3	9.2	16
ZZ35080		0.19	0.004	0.49	0.78	103.5	<0.2	<10	550	0.91	0.24	0.61	0.43	15.80	5.2	12
ZZ35081		0.22	0.005	0.77	0.35	78.2	<0.2	<10	360	0.75	0.25	0.18	3.67	16.75	10.4	7
ZZ35082		0.24	0.004	0.65	0.41	51.3	<0.2	<10	310	0.55	0.27	0.08	1.85	12.55	10.0	8
ZZ35083		0.24	0.005	0.27	0.49	152.5	<0.2	<10	260	0.52	0.25	0.11	0.96	8.75	6.8	11
ZZ35084		0.22	0.007	0.81	0.69	146.0	<0.2	<10	540	0.85	0.25	0.29	1.32	23.7	8.1	13
ZZ35085		0.23	0.006	0.75	0.49	63.4	<0.2	<10	520	0.69	0.29	0.12	0.66	15.75	9.5	9
ZZ35086		0.23	0.005	0.68	0.51	66.7	<0.2	<10	270	0.67	0.27	0.05	1.13	16.80	9.5	10
ZZ35087		0.26	0.007	0.63	0.81	107.5	<0.2	<10	400	0.80	0.27	0.12	1.23	22.4	9.6	16
ZZ35088		0.19	0.006	0.93	0.43	41.5	<0.2	<10	360	0.67	0.25	0.06	1.33	9.75	8.3	10
ZZ35089		0.21	0.007	0.76	0.41	46.0	<0.2	<10	200	0.53	0.27	0.02	0.71	7.84	7.7	10
ZZ35090		0.20	0.005	0.75	0.51	24.5	<0.2	<10	170	0.34	0.29	0.01	0.45	8.73	4.9	11
ZZ35091		0.20	0.007	0.95	0.65	86.2	<0.2	<10	290	0.50	0.31	0.03	1.27	13.75	5.9	14
ZZ35092		0.17	0.013	0.72	0.46	237	<0.2	<10	330	0.60	0.27	0.05	1.56	14.80	11.3	10
ZZ35093		0.20	0.009	0.66	0.41	315	<0.2	<10	230	0.35	0.26	0.10	1.02	5.70	5.3	10
ZZ35094		0.23	0.004	0.91	0.39	91.5	<0.2	<10	130	0.36	0.25	0.04	1.13	5.02	6.0	11
ZZ35095		0.20	0.006	0.46	0.60	377	<0.2	<10	340	0.65	0.22	0.28	1.06	16.30	7.6	11
ZZ35096		0.19	0.010	0.87	0.81	364	<0.2	<10	560	0.95	0.24	0.68	2.40	17.60	9.2	16
ZZ35097		0.23	0.006	0.77	0.87	278	<0.2	<10	630	0.88	0.25	0.86	1.76	19.45	7.3	16
ZZ35098		0.14	0.006	0.82	0.82	199.5	<0.2	10	650	0.82	0.19	1.66	4.15	16.95	6.9	14
ZZ35099		0.21	0.007	0.75	0.85	292	<0.2	<10	560	0.84	0.23	0.76	2.86	18.00	8.0	15
ZZ35100		0.17	0.005	0.80	0.82	243	<0.2	<10	460	0.71	0.19	0.79	1.97	13.45	4.6	15
ZZ35101		0.18	0.007	0.80	0.86	220	<0.2	<10	500	0.77	0.22	0.68	3.11	14.40	4.3	14
ZZ35102		0.19	0.005	2.43	0.45	51.3	<0.2	10	890	0.53	0.19	0.75	2.92	5.37	4.5	21
ZZ35103		0.20	0.066	3.25	0.50	179.5	<0.2	10	1450	0.66	0.22	0.97	5.59	7.77	5.6	31
ZZ35104		0.20	0.161	3.13	0.50	186.0	<0.2	10	1030	0.70	0.26	0.73	3.16	7.73	5.9	26
ZZ35105		0.17	0.023	2.38	0.67	144.0	<0.2	10	1100	0.69	0.20	1.34	3.18	7.77	3.9	28
ZZ35106		0.20	0.043	2.81	0.90	224	<0.2	10	1320	0.84	0.22	1.50	4.08	10.65	5.4	30
ZZ35107		0.17	0.013	1.70	0.65	125.0	<0.2	10	1580	0.47	0.16	2.05	1.96	6.23	2.9	24
ZZ35108		0.15	0.030	1.56	0.89	190.0	<0.2	10	870	0.70	0.19	2.09	5.18	9.43	4.4	24
ZZ35109		0.20	0.029	2.15	0.51	156.5	<0.2	10	1260	0.71	0.18	1.39	2.93	7.05	4.7	23
ZZ35110		0.22	0.111	2.41	0.69	219	<0.2	10	850	2.75	0.21	0.58	12.90	11.45	23.5	23
ZZ35111		0.17	0.034	2.42	0.48	175.5	<0.2	10	1250	0.66	0.17	0.70	3.79	7.85	4.5	27
ZZ35112		0.23	0.027	2.63	0.43	156.0	<0.2	10	1440	0.73	0.16	1.30	5.44	7.50	6.2	30
ZZ35113		0.19	0.031	1.91	0.37	174.5	<0.2	10	980	0.57	0.16	0.78	4.30	6.55	4.4	26
ZZ35114		0.19	0.179	2.30	0.49	198.0	<0.2	10	1040	0.93	0.21	0.67	3.94	7.48	6.3	24
ZZ35115		0.21	0.049	2.36	0.44	155.0	<0.2	10	1140	0.68	0.19	0.79	3.51	6.97	5.2	24
ZZ35116		0.16	0.041	2.53	0.42	230	<0.2	10	1320	0.68	0.18	1.04	5.25	6.47	5.4	28
ZZ35117		0.16	0.017	3.68	0.49	122.0	<0.2	10	1620	0.69	0.18	1.14	6.06	7.70	5.1	42
ZZ35118		0.23	0.018	3.32	0.43	168.0	<0.2	10	1390	0.64	0.16	1.02	5.22	6.96	5.0	35



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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ35079		1.75	39.8	3.73	2.60	0.07	0.05	0.20	0.045	0.11	12.2	8.8	0.20	702	4.04	<0.01
ZZ35080		3.23	37.8	2.31	2.39	<0.05	0.10	0.13	0.039	0.09	6.9	4.0	0.11	187	3.68	<0.01
ZZ35081		8.66	65.4	2.61	1.35	0.06	0.04	0.14	0.042	0.12	6.4	1.5	0.05	414	6.26	<0.01
ZZ35082		7.70	59.8	2.70	1.53	<0.05	0.02	0.10	0.036	0.12	4.8	1.6	0.05	713	5.98	<0.01
ZZ35083		4.14	44.6	2.75	1.81	<0.05	0.05	0.06	0.035	0.12	3.8	1.6	0.04	161	4.77	<0.01
ZZ35084		3.29	44.4	3.02	1.96	0.06	0.05	0.20	0.037	0.11	9.6	5.2	0.09	449	4.22	<0.01
ZZ35085		6.93	58.2	2.86	1.82	0.05	0.02	0.15	0.041	0.13	6.5	2.7	0.07	273	6.28	<0.01
ZZ35086		8.47	62.5	2.73	1.82	<0.05	0.02	0.13	0.041	0.12	6.6	1.9	0.05	460	6.81	<0.01
ZZ35087		7.38	49.5	2.93	2.48	<0.05	0.03	0.20	0.042	0.13	8.7	5.9	0.11	321	4.97	<0.01
ZZ35088		13.45	55.4	2.64	1.68	<0.05	0.02	0.10	0.040	0.14	4.1	1.4	0.04	234	5.20	<0.01
ZZ35089		13.15	54.2	3.31	2.05	<0.05	<0.02	0.14	0.039	0.12	3.4	1.0	0.03	265	6.09	<0.01
ZZ35090		12.70	38.7	1.99	2.29	<0.05	<0.02	0.06	0.030	0.12	4.0	1.5	0.03	139	4.44	<0.01
ZZ35091		8.30	46.2	2.30	2.72	<0.05	<0.02	0.20	0.037	0.13	5.5	2.0	0.05	141	4.33	<0.01
ZZ35092		13.75	47.5	2.61	2.15	<0.05	<0.02	0.10	0.034	0.12	5.7	1.2	0.04	1580	5.52	<0.01
ZZ35093		23.1	38.6	2.43	2.25	<0.05	<0.02	0.13	0.028	0.12	2.8	1.3	0.05	291	5.36	<0.01
ZZ35094		33.9	45.1	2.53	1.98	<0.05	<0.02	0.11	0.032	0.13	2.3	1.1	0.03	290	4.79	<0.01
ZZ35095		8.97	37.9	2.45	2.02	<0.05	0.07	0.18	0.037	0.11	7.4	3.5	0.08	278	5.13	<0.01
ZZ35096		4.37	58.4	2.63	2.33	<0.05	0.06	0.48	0.039	0.09	8.7	7.4	0.24	450	3.62	<0.01
ZZ35097		4.39	45.7	2.61	2.45	0.05	0.07	0.43	0.038	0.09	9.6	8.1	0.31	300	2.97	<0.01
ZZ35098		3.33	44.8	2.36	2.29	0.05	0.07	0.41	0.032	0.08	8.8	6.7	0.22	570	2.71	<0.01
ZZ35099		3.64	37.7	2.48	2.41	<0.05	0.07	0.40	0.039	0.08	7.9	7.2	0.20	376	3.44	<0.01
ZZ35100		3.48	28.7	2.07	2.22	<0.05	0.12	0.37	0.032	0.07	7.2	6.2	0.17	169	2.62	<0.01
ZZ35101		5.55	35.6	2.11	2.49	<0.05	0.10	0.35	0.033	0.08	7.0	5.7	0.15	139	3.06	<0.01
ZZ35102		2.06	51.0	2.72	1.18	0.05	0.02	0.19	0.030	0.10	3.5	2.5	0.06	122	6.46	<0.01
ZZ35103		3.75	70.9	2.69	1.76	0.06	0.07	1.10	0.039	0.12	5.0	2.8	0.08	146	13.85	<0.01
ZZ35104		2.82	67.8	2.95	1.79	0.06	0.03	2.25	0.049	0.14	4.5	2.9	0.09	123	10.90	0.01
ZZ35105		2.35	42.9	2.16	2.01	<0.05	0.05	0.56	0.033	0.08	5.4	4.3	0.10	74	7.11	0.01
ZZ35106		2.00	48.4	2.50	2.69	0.05	0.07	0.87	0.038	0.08	7.4	6.4	0.16	161	8.95	0.01
ZZ35107		1.51	29.0	1.77	1.97	<0.05	0.07	0.39	0.024	0.06	3.9	3.0	0.14	95	5.15	<0.01
ZZ35108		1.83	32.9	2.12	2.57	<0.05	0.07	0.48	0.029	0.06	6.4	5.8	0.15	161	4.67	0.01
ZZ35109		2.90	60.4	2.53	1.71	0.06	0.06	0.76	0.031	0.11	4.6	3.2	0.09	125	8.61	0.01
ZZ35110		7.92	250	2.92	1.77	0.09	0.03	1.56	0.051	0.17	5.1	3.0	0.11	729	12.90	0.01
ZZ35111		4.04	70.8	2.32	1.80	0.07	0.04	0.80	0.034	0.12	5.0	2.7	0.06	89	12.20	0.01
ZZ35112		5.01	70.5	2.51	1.58	0.07	0.06	0.64	0.033	0.14	5.0	2.4	0.13	171	14.20	0.01
ZZ35113		4.70	50.7	2.11	1.49	0.07	0.05	0.70	0.029	0.13	4.4	1.7	0.05	122	12.55	0.01
ZZ35114		4.98	89.6	2.95	1.80	0.07	0.02	1.78	0.042	0.14	4.2	2.6	0.08	130	10.10	0.01
ZZ35115		4.10	66.9	2.51	1.68	0.08	0.05	0.88	0.033	0.13	4.3	2.5	0.07	117	10.90	0.01
ZZ35116		3.59	67.1	2.61	1.64	0.08	0.04	0.95	0.033	0.11	4.1	1.9	0.08	104	12.90	0.01
ZZ35117		2.87	68.9	2.53	1.83	0.10	0.05	0.66	0.037	0.13	5.5	2.3	0.06	127	16.40	<0.01
ZZ35118		3.72	70.3	2.38	1.75	0.09	0.04	0.70	0.036	0.13	5.0	2.0	0.05	107	16.90	<0.01

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 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ35079		0.14	44.4	1250	40.6	8.8	<0.001	0.07	2.51	4.3	2.0	0.4	29.7	<0.01	0.09	2.0
ZZ35080		0.15	28.7	1170	20.7	12.3	0.001	0.08	1.99	3.1	1.4	0.4	23.1	<0.01	0.06	1.8
ZZ35081		0.10	48.8	1130	21.7	14.6	0.002	0.05	3.94	2.8	2.3	0.4	19.4	<0.01	0.09	1.5
ZZ35082		0.09	42.1	1180	22.7	16.9	0.001	0.06	3.09	2.2	2.2	0.4	14.7	<0.01	0.07	1.1
ZZ35083		0.11	34.0	1560	21.5	13.7	<0.001	0.09	2.87	2.2	1.1	0.4	17.3	<0.01	0.09	1.0
ZZ35084		0.09	40.8	1330	27.5	10.7	0.001	0.07	2.62	3.8	2.0	0.4	27.9	<0.01	0.07	2.2
ZZ35085		0.10	44.5	1110	24.4	16.3	0.001	0.06	3.14	2.5	2.7	0.4	20.9	<0.01	0.08	1.4
ZZ35086		0.12	42.6	1210	25.4	18.3	0.001	0.05	3.54	2.5	2.6	0.4	16.8	<0.01	0.09	1.7
ZZ35087		0.16	42.2	1330	23.9	18.1	0.001	0.06	2.86	2.7	2.3	0.4	25.7	<0.01	0.07	1.6
ZZ35088		0.11	34.6	1810	27.2	28.7	0.001	0.12	3.46	2.3	2.4	0.4	21.4	<0.01	0.10	0.6
ZZ35089		0.12	39.2	1230	27.9	17.8	0.002	0.09	4.23	2.3	3.0	0.5	23.6	<0.01	0.09	0.8
ZZ35090		0.11	23.4	1310	17.7	20.4	0.001	0.10	2.66	0.7	1.7	0.6	14.7	<0.01	0.09	0.2
ZZ35091		0.15	28.2	1260	19.9	19.0	0.001	0.13	2.73	1.1	2.0	0.5	22.2	<0.01	0.09	0.5
ZZ35092		0.07	32.3	1570	33.7	19.6	0.001	0.08	3.05	1.0	1.7	0.5	15.9	<0.01	0.07	0.2
ZZ35093		0.13	29.5	1090	23.2	25.5	0.001	0.07	3.04	1.3	1.4	0.5	16.4	<0.01	0.09	0.3
ZZ35094		0.13	32.4	1010	20.5	26.9	0.001	0.06	2.87	2.0	1.3	0.5	14.1	<0.01	0.12	0.7
ZZ35095		0.16	36.9	1050	25.9	15.5	0.001	0.07	2.68	2.7	1.6	0.4	23.2	<0.01	0.08	1.9
ZZ35096		0.15	50.3	700	30.6	10.7	0.001	0.05	2.41	4.6	2.2	0.4	32.9	<0.01	0.08	2.1
ZZ35097		0.16	41.6	920	30.1	11.7	0.001	0.06	1.96	4.4	3.4	0.4	34.1	<0.01	0.08	2.2
ZZ35098		0.19	40.0	1190	23.6	9.7	0.001	0.12	1.94	2.9	3.4	0.3	56.3	<0.01	0.06	1.1
ZZ35099		0.16	40.5	1020	33.6	10.1	0.002	0.07	2.24	3.1	3.4	0.4	40.7	<0.01	0.08	1.1
ZZ35100		0.17	30.4	1350	25.5	13.8	0.001	0.10	1.70	3.0	3.4	0.3	37.9	<0.01	0.06	1.4
ZZ35101		0.18	29.4	1390	23.2	16.7	<0.001	0.10	1.74	2.8	2.8	0.4	33.7	<0.01	0.05	1.4
ZZ35102		0.07	102.0	1500	12.2	10.6	0.002	0.21	1.81	4.3	7.6	0.3	157.5	<0.01	0.14	0.9
ZZ35103		0.07	102.5	1830	33.5	9.5	0.007	0.21	5.17	4.9	10.8	0.5	183.0	<0.01	0.12	1.1
ZZ35104		0.08	98.9	1500	56.2	10.8	0.008	0.24	4.55	5.2	9.4	0.5	199.5	<0.01	0.17	1.4
ZZ35105		0.14	58.3	1490	24.7	8.2	0.003	0.15	2.99	3.7	6.0	0.4	104.0	<0.01	0.10	0.8
ZZ35106		0.24	71.4	1790	35.3	8.8	0.004	0.19	4.06	3.5	8.1	0.5	113.5	<0.01	0.10	0.7
ZZ35107		0.23	44.4	1640	18.1	7.0	0.005	0.19	2.20	2.3	6.3	0.3	128.0	<0.01	0.10	0.5
ZZ35108		0.28	45.1	1730	25.9	8.1	0.001	0.20	2.48	2.6	4.8	0.4	65.5	<0.01	0.08	0.6
ZZ35109		0.19	83.6	1470	26.0	8.6	0.005	0.20	3.12	4.2	8.4	0.4	135.5	<0.01	0.09	1.0
ZZ35110		0.12	172.5	1590	37.6	12.1	0.007	0.27	5.56	5.8	11.5	0.5	171.5	<0.01	0.17	2.3
ZZ35111		0.14	74.0	1470	25.1	9.6	0.005	0.18	4.73	4.0	8.6	0.5	144.0	<0.01	0.11	1.3
ZZ35112		0.15	90.0	1960	26.4	10.0	0.006	0.20	4.80	4.3	11.5	0.4	166.5	<0.01	0.11	1.3
ZZ35113		0.12	61.7	1670	21.5	10.4	0.008	0.19	4.58	3.8	10.1	0.4	142.0	<0.01	0.08	1.3
ZZ35114		0.14	98.2	1530	31.4	10.3	0.009	0.22	3.93	5.3	8.9	0.5	160.0	<0.01	0.13	1.4
ZZ35115		0.15	81.4	1490	37.9	10.6	0.006	0.22	4.22	4.1	8.4	0.4	148.0	<0.01	0.14	1.2
ZZ35116		0.13	92.5	1700	71.1	8.8	0.008	0.19	6.87	4.0	9.8	0.4	190.0	<0.01	0.11	1.4
ZZ35117		0.14	92.7	2020	24.2	12.7	0.008	0.18	5.34	4.3	14.1	0.5	195.0	<0.01	0.11	1.2
ZZ35118		0.12	92.7	2060	29.1	9.9	0.010	0.19	5.72	4.4	12.7	0.5	206	<0.01	0.13	1.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
ZZ35079		<0.005	0.51	1.43	63	0.09	19.50	299	1.4
ZZ35080		<0.005	0.40	1.57	52	0.06	11.65	176	2.2
ZZ35081		<0.005	0.57	1.80	37	0.07	13.55	316	0.9
ZZ35082		<0.005	0.68	1.52	40	0.05	8.94	288	0.6
ZZ35083		<0.005	0.42	1.01	51	0.07	5.98	264	1.1
ZZ35084		<0.005	0.44	1.46	53	0.07	20.1	270	1.2
ZZ35085		<0.005	0.54	1.52	44	0.07	15.30	255	<0.5
ZZ35086		<0.005	0.53	1.78	50	0.06	11.10	275	0.5
ZZ35087		0.006	0.60	1.63	60	0.07	14.40	279	0.6
ZZ35088		<0.005	0.68	1.72	46	0.06	6.80	259	<0.5
ZZ35089		<0.005	0.53	1.11	58	0.07	4.64	259	<0.5
ZZ35090		0.005	0.32	0.95	50	0.08	3.19	170	<0.5
ZZ35091		0.006	0.53	1.68	61	0.10	7.97	188	<0.5
ZZ35092		<0.005	0.79	1.25	58	0.10	8.97	233	<0.5
ZZ35093		0.005	0.77	0.72	61	0.15	2.30	227	<0.5
ZZ35094		<0.005	0.70	0.61	51	0.12	2.28	277	0.6
ZZ35095		<0.005	0.74	1.49	58	0.11	12.00	250	1.4
ZZ35096		<0.005	0.64	1.51	70	0.11	18.20	276	1.4
ZZ35097		<0.005	0.65	1.37	67	0.18	18.20	275	1.8
ZZ35098		<0.005	0.49	1.68	58	0.11	15.30	279	1.8
ZZ35099		<0.005	0.61	1.50	71	0.11	16.05	330	1.6
ZZ35100		<0.005	0.80	1.47	67	0.12	13.30	251	2.7
ZZ35101		<0.005	0.78	1.37	61	0.09	12.30	226	2.4
ZZ35102		<0.005	0.54	3.00	66	0.09	25.8	367	1.0
ZZ35103		<0.005	1.62	5.22	98	0.24	26.9	413	2.1
ZZ35104		<0.005	2.63	3.70	119	0.39	25.2	367	0.9
ZZ35105		<0.005	0.73	4.54	77	0.20	23.8	282	1.4
ZZ35106		0.005	0.97	4.85	99	0.25	27.2	325	2.1
ZZ35107		0.006	0.50	3.70	72	0.15	16.30	171	2.3
ZZ35108		0.006	0.64	5.87	76	0.16	18.90	265	2.3
ZZ35109		<0.005	0.99	3.32	71	0.24	26.8	326	1.7
ZZ35110		<0.005	2.80	4.72	99	0.46	51.9	904	1.1
ZZ35111		<0.005	1.31	4.87	95	0.27	22.8	327	1.1
ZZ35112		<0.005	1.14	4.65	90	0.25	27.7	400	2.1
ZZ35113		<0.005	1.38	4.07	86	0.25	16.25	339	2.0
ZZ35114		<0.005	2.37	3.77	83	0.38	27.4	429	0.7
ZZ35115		<0.005	1.58	3.69	76	0.25	23.4	358	1.4
ZZ35116		<0.005	1.34	4.30	87	0.32	22.2	426	1.5
ZZ35117		<0.005	0.88	5.40	110	0.22	28.9	424	2.0
ZZ35118		<0.005	1.04	5.36	102	0.22	28.2	387	1.4



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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ35119		0.16	0.018	1.16	1.07	1280	<0.2	<10	790	1.19	0.18	0.81	15.20	18.90	7.8	20
ZZ35120		0.17	0.025	2.72	1.24	2390	<0.2	<10	840	1.83	0.17	1.27	17.70	20.1	7.2	25
ZZ35121		0.23	0.019	2.37	1.40	3770	<0.2	<10	640	1.74	0.19	0.38	18.80	20.9	10.5	30
ZZ35122		0.20	NSS	1.31	1.18	1440	<0.2	<10	650	1.44	0.22	0.49	12.15	27.1	8.8	24
ZZ35123		0.21	0.016	1.61	1.30	2570	<0.2	<10	550	1.50	0.20	0.36	10.55	23.6	7.4	28
ZZ35124		0.23	0.008	0.80	0.39	141.5	<0.2	<10	440	0.70	0.20	0.10	2.40	14.55	8.5	10
ZZ35125		0.22	0.009	0.98	0.79	741	<0.2	<10	500	1.11	0.23	0.13	4.59	19.95	7.7	17
ZZ35126		0.19	0.008	0.69	0.53	430	<0.2	<10	390	0.78	0.19	0.09	4.12	13.60	5.8	13
ZZ35127		0.22	0.008	1.48	0.71	684	<0.2	<10	480	0.98	0.22	0.07	3.48	15.30	6.2	16
ZZ35128		0.22	0.012	1.10	0.58	253	<0.2	<10	490	0.80	0.19	0.09	2.70	15.95	6.7	13
ZZ35129		0.22	0.009	0.87	0.73	763	<0.2	<10	610	0.96	0.21	0.20	4.62	17.45	8.3	16
ZZ35130		0.18	0.005	0.83	0.53	208	<0.2	<10	340	0.61	0.22	0.05	1.75	11.00	5.2	13
ZZ35131		0.23	0.016	1.42	1.52	3940	<0.2	<10	560	1.87	0.20	0.19	17.35	20.1	12.6	29
ZZ35132		0.24	0.010	0.99	1.25	2430	<0.2	<10	420	1.44	0.22	0.12	9.86	19.00	8.8	27
ZZ35133		0.25	0.007	0.78	1.02	2660	<0.2	<10	300	1.26	0.19	0.08	12.45	14.15	7.7	24
ZZ35134		0.23	0.064	1.75	1.14	1165	<0.2	<10	760	1.11	0.26	0.59	13.85	20.6	9.5	23
ZZ35135		0.17	0.007	0.24	0.61	497	<0.2	<10	250	0.60	0.16	1.76	4.94	31.2	7.9	12
ZZ35136		0.20	0.003	0.57	0.58	199.5	<0.2	<10	210	0.58	0.12	1.37	4.59	40.3	7.0	10
ZZ35137		0.16	0.010	0.43	0.76	135.0	<0.2	<10	250	0.76	0.17	2.22	3.59	31.5	6.1	11
ZZ35138		0.16	0.007	0.32	0.69	227	<0.2	<10	250	0.67	0.17	2.37	6.37	28.4	6.8	10
ZZ35139		0.17	NSS	0.22	0.47	59.1	<0.2	<10	260	0.37	0.08	3.95	4.92	9.83	2.9	5
ZZ35140		0.13	NSS	0.20	0.51	51.9	<0.2	<10	280	0.26	0.08	4.09	5.42	7.04	2.7	4
ZZ35141		0.13	0.008	0.42	0.98	490	<0.2	<10	570	0.74	0.15	2.88	6.39	18.70	6.6	12
ZZ35142		0.17	0.013	0.81	1.15	1410	<0.2	<10	640	1.16	0.18	0.96	6.57	21.8	7.9	22
ZZ35143		0.17	0.006	0.44	0.58	206	<0.2	<10	570	0.56	0.09	3.19	6.06	9.46	3.6	8
ZZ35144		0.17	0.009	0.94	0.65	702	<0.2	<10	340	1.06	0.13	2.97	55.0	24.4	17.6	14
ZZ35145		0.16	0.013	0.84	1.05	867	<0.2	<10	530	1.08	0.16	1.91	11.55	15.10	3.7	18
ZZ35146		0.21	0.015	1.07	0.89	2100	<0.2	<10	500	1.01	0.19	0.09	8.28	13.40	8.6	26
ZZ35147		0.19	0.016	0.85	0.91	1330	<0.2	<10	700	0.94	0.20	0.56	8.82	15.45	9.5	23
ZZ35148		0.17	0.003	0.93	0.94	1430	<0.2	<10	500	0.91	0.19	0.13	6.76	13.40	5.7	25
ZZ35149		0.18	0.013	0.43	0.70	1940	<0.2	<10	350	0.69	0.19	0.06	5.54	10.10	5.5	22
ZZ35150		0.20	0.014	1.09	1.43	3190	<0.2	<10	560	1.57	0.18	0.37	13.40	21.3	9.7	27
ZZ35151		0.19	0.007	0.39	0.74	1400	<0.2	<10	410	0.83	0.20	0.19	7.93	9.82	7.4	21
ZZ35152		0.21	0.017	0.99	1.20	1725	<0.2	<10	570	1.39	0.16	0.30	9.59	15.55	6.8	25
ZZ35153		0.23	0.015	0.55	1.08	2200	<0.2	<10	390	1.22	0.21	0.29	8.33	15.65	10.6	25
ZZ35154		0.20	0.016	0.61	0.70	985	<0.2	<10	360	0.64	0.16	0.28	5.22	7.91	5.8	18
ZZ35155		0.21	0.021	1.85	1.13	861	<0.2	<10	680	1.38	0.17	1.28	10.85	19.75	6.9	25
ZZ35156		0.20	0.011	1.17	0.94	763	<0.2	<10	700	1.12	0.14	1.38	8.39	16.25	6.6	20
ZZ35157		0.14	0.096	0.88	0.52	232	<0.2	<10	190	0.59	0.09	10.75	2.74	7.29	3.9	7
ZZ35158		0.18	0.059	0.78	2.33	1700	<0.2	10	940	3.25	0.17	3.20	3.30	14.80	9.3	23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ35119		2.81	42.5	2.61	2.31	0.07	0.07	1.61	0.031	0.09	9.5	4.3	0.09	204	7.76	0.01
ZZ35120		3.12	53.7	3.00	2.14	0.09	0.09	2.48	0.032	0.08	15.6	4.4	0.09	160	12.75	0.01
ZZ35121		3.72	52.4	3.73	2.21	0.09	0.06	1.35	0.032	0.10	11.9	4.1	0.06	280	17.15	0.01
ZZ35122		4.34	45.6	2.91	3.01	0.07	0.06	1.06	0.031	0.13	14.3	6.6	0.17	360	7.91	0.01
ZZ35123		5.66	42.9	3.17	2.79	0.09	0.05	0.96	0.030	0.11	13.1	5.8	0.13	227	11.40	0.01
ZZ35124		11.95	65.0	2.53	1.73	0.05	<0.02	0.18	0.034	0.13	5.8	1.4	0.03	190	9.66	0.01
ZZ35125		8.53	50.7	2.82	2.52	0.06	0.03	0.46	0.037	0.12	8.3	3.8	0.08	267	10.10	0.01
ZZ35126		7.48	50.4	2.27	1.98	0.06	0.02	0.24	0.026	0.13	5.8	1.8	0.04	159	10.95	<0.01
ZZ35127		8.13	51.9	2.72	2.51	0.06	0.02	0.38	0.033	0.13	7.0	2.7	0.05	118	11.95	0.01
ZZ35128		9.04	66.7	2.27	2.09	0.07	0.02	0.24	0.032	0.13	6.5	3.1	0.07	190	10.20	0.01
ZZ35129		10.35	67.8	2.65	2.14	0.07	0.02	0.32	0.033	0.13	7.3	3.4	0.06	270	12.05	0.01
ZZ35130		8.44	50.3	2.24	2.48	0.05	<0.02	0.17	0.033	0.12	4.9	1.6	0.03	67	10.90	0.01
ZZ35131		4.97	62.2	3.88	2.49	0.08	0.03	1.29	0.033	0.11	13.2	4.5	0.07	396	20.1	0.01
ZZ35132		5.14	42.7	3.62	3.09	0.07	0.02	1.14	0.032	0.10	10.1	5.1	0.11	321	15.10	0.01
ZZ35133		5.63	37.8	3.38	2.73	0.07	<0.02	0.79	0.026	0.11	8.5	2.1	0.05	296	14.70	0.01
ZZ35134		5.81	86.8	3.49	3.46	0.08	0.04	3.76	0.040	0.13	11.4	7.0	0.14	278	25.2	0.01
ZZ35135		2.15	18.3	2.08	2.02	0.05	0.04	0.18	0.025	0.09	13.4	3.4	0.07	468	4.59	0.01
ZZ35136		1.09	15.4	1.88	1.49	0.06	0.02	0.11	0.019	0.06	15.5	3.4	0.09	375	3.72	<0.01
ZZ35137		0.85	17.5	1.87	2.29	0.07	0.04	0.09	0.024	0.07	22.4	3.4	0.10	261	3.24	0.01
ZZ35138		1.10	19.9	1.98	2.07	0.05	0.04	0.11	0.027	0.07	19.8	3.2	0.08	313	6.35	0.01
ZZ35139		0.59	11.7	0.79	1.45	<0.05	0.03	0.13	0.010	0.03	6.9	1.4	0.05	222	1.69	0.01
ZZ35140		0.41	11.7	0.66	1.33	<0.05	0.04	0.15	0.010	0.03	4.2	1.5	0.07	180	1.30	0.01
ZZ35141		1.41	20.7	1.75	2.53	0.05	0.05	0.19	0.022	0.04	10.5	3.3	0.08	554	4.12	0.01
ZZ35142		2.30	39.9	2.88	2.66	0.06	0.06	0.41	0.032	0.09	11.6	5.8	0.11	286	9.24	0.01
ZZ35143		1.15	19.8	1.16	1.60	<0.05	0.06	0.20	0.014	0.04	5.8	1.8	0.07	225	3.02	0.01
ZZ35144		1.14	25.0	2.25	1.89	0.06	0.03	0.61	0.024	0.06	16.6	2.9	0.10	865	4.66	0.01
ZZ35145		1.70	36.5	1.91	2.60	0.05	0.09	0.66	0.026	0.07	10.0	4.1	0.10	105	4.58	0.01
ZZ35146		3.95	42.4	3.40	2.55	0.06	0.02	0.41	0.030	0.11	7.7	1.9	0.04	720	16.95	<0.01
ZZ35147		3.77	34.8	2.91	2.82	0.05	0.02	0.29	0.022	0.09	7.2	2.5	0.05	1760	12.10	0.01
ZZ35148		3.26	33.4	2.86	3.22	0.05	0.02	0.24	0.021	0.10	7.9	3.3	0.08	314	13.85	0.01
ZZ35149		3.36	38.3	3.10	2.90	0.05	<0.02	0.28	0.023	0.10	6.8	1.3	0.03	149	16.60	<0.01
ZZ35150		4.82	48.6	3.22	2.86	0.08	0.07	0.85	0.027	0.10	12.6	6.1	0.13	275	12.05	0.01
ZZ35151		1.89	40.1	2.64	2.76	0.05	0.03	0.26	0.026	0.11	6.0	2.6	0.05	260	10.40	<0.01
ZZ35152		2.76	43.9	2.91	2.76	<0.05	0.08	1.05	0.028	0.10	8.6	5.3	0.10	234	10.05	<0.01
ZZ35153		2.23	40.5	3.79	2.85	0.06	0.07	1.67	0.034	0.10	7.4	7.2	0.14	326	12.60	0.01
ZZ35154		1.47	29.8	2.32	2.46	<0.05	0.05	0.63	0.024	0.11	4.7	2.9	0.06	136	8.31	<0.01
ZZ35155		2.25	40.3	2.71	3.00	0.07	0.07	3.35	0.034	0.09	15.1	7.4	0.17	169	7.52	0.01
ZZ35156		1.71	37.6	2.20	2.51	0.06	0.07	1.27	0.026	0.08	9.4	4.8	0.13	206	7.60	0.01
ZZ35157		1.06	15.7	1.08	1.38	<0.05	0.02	0.63	0.010	0.04	4.3	3.3	5.41	378	1.01	0.01
ZZ35158		3.17	54.7	3.64	2.87	0.08	0.08	0.63	0.025	0.10	8.6	15.8	1.11	298	3.71	0.01

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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ35119		0.24	106.0	1280	110.0	9.0	<0.001	0.11	5.02	2.8	4.5	0.4	64.6	<0.01	0.07	1.1
ZZ35120		0.22	170.0	1360	178.0	8.9	0.002	0.11	7.41	4.0	7.0	0.4	92.7	<0.01	0.08	1.2
ZZ35121		0.17	212	1630	125.0	10.3	0.001	0.08	7.90	4.3	7.5	0.5	116.0	<0.01	0.11	1.8
ZZ35122		0.31	101.5	1610	88.2	14.1	<0.001	0.08	4.30	3.4	3.6	0.5	56.7	<0.01	0.06	1.3
ZZ35123		0.29	146.5	1710	132.0	13.6	0.002	0.07	5.73	3.0	4.3	0.5	94.2	<0.01	0.08	1.3
ZZ35124		0.14	54.0	1050	26.4	12.8	<0.001	0.08	5.57	2.4	4.7	0.8	47.1	<0.01	0.09	0.9
ZZ35125		0.21	75.6	1400	67.0	14.0	0.001	0.09	4.91	2.0	4.0	0.5	55.2	<0.01	0.07	0.8
ZZ35126		0.18	55.4	1330	37.5	13.1	<0.001	0.14	5.69	1.5	3.8	0.5	69.9	<0.01	0.07	0.6
ZZ35127		0.19	75.9	1520	55.9	14.6	0.001	0.15	5.90	1.6	4.7	0.5	78.9	<0.01	0.09	0.5
ZZ35128		0.20	48.9	1000	30.9	12.1	0.001	0.12	5.21	2.9	5.3	0.4	79.3	<0.01	0.09	1.5
ZZ35129		0.18	72.8	1300	42.4	13.0	0.001	0.12	5.79	2.9	5.3	0.4	80.1	<0.01	0.10	1.3
ZZ35130		0.23	41.2	1190	29.9	13.2	0.001	0.13	5.46	1.3	3.9	0.6	86.6	<0.01	0.14	0.5
ZZ35131		0.25	233	1770	207	11.1	<0.001	0.08	8.98	3.4	6.5	0.5	135.0	<0.01	0.11	1.4
ZZ35132		0.27	162.0	1760	168.5	13.0	<0.001	0.09	6.59	1.4	4.7	0.6	91.0	<0.01	0.08	0.5
ZZ35133		0.29	174.0	1850	137.5	15.5	<0.001	0.11	6.80	0.8	4.2	0.5	85.4	<0.01	0.07	0.2
ZZ35134		0.28	111.5	1580	107.0	13.0	<0.001	0.12	12.90	3.6	10.0	0.7	152.0	<0.01	0.19	1.6
ZZ35135		0.37	53.0	1310	20.9	15.8	<0.001	0.16	3.42	1.8	2.5	0.3	85.1	<0.01	0.01	0.6
ZZ35136		0.26	35.1	970	26.5	9.8	<0.001	0.10	2.51	1.5	1.8	0.2	82.2	<0.01	0.02	0.5
ZZ35137		0.41	27.6	1090	13.9	6.9	<0.001	0.16	2.51	1.5	2.1	0.3	105.5	<0.01	0.02	0.4
ZZ35138		0.35	42.5	1090	14.7	8.5	<0.001	0.15	3.97	1.9	2.8	0.3	103.5	<0.01	0.02	0.5
ZZ35139		0.28	13.3	1040	7.1	3.3	<0.001	0.25	1.22	0.5	1.0	<0.2	155.0	<0.01	0.01	0.2
ZZ35140		0.33	10.8	1330	5.8	2.1	<0.001	0.32	0.77	0.5	0.6	0.2	158.5	<0.01	0.01	<0.2
ZZ35141		0.37	37.3	2100	20.6	5.5	<0.001	0.28	1.97	1.4	1.9	0.3	114.0	<0.01	0.02	0.4
ZZ35142		0.29	102.0	1320	58.9	11.4	0.001	0.10	4.11	3.4	3.8	0.4	90.3	<0.01	0.08	1.3
ZZ35143		0.33	27.0	1620	13.8	4.0	<0.001	0.27	1.47	0.9	1.2	0.3	110.5	<0.01	0.01	0.4
ZZ35144		0.23	111.5	1500	61.5	5.8	<0.001	0.16	4.95	1.3	2.7	0.3	82.5	<0.01	0.05	0.3
ZZ35145		0.30	76.2	1970	34.7	9.2	<0.001	0.17	3.32	2.2	2.9	0.4	59.6	<0.01	0.04	0.8
ZZ35146		0.20	158.5	2210	155.0	10.1	0.001	0.11	6.72	1.0	4.7	0.5	90.1	<0.01	0.11	0.3
ZZ35147		0.16	103.5	1830	100.0	12.1	<0.001	0.10	4.36	0.7	3.4	0.5	64.2	<0.01	0.06	0.2
ZZ35148		0.21	131.5	1670	157.5	11.2	<0.001	0.12	5.27	0.7	3.9	0.6	71.4	<0.01	0.08	<0.2
ZZ35149		0.19	138.0	1450	140.0	11.0	<0.001	0.08	5.95	0.7	3.5	0.7	72.8	<0.01	0.10	<0.2
ZZ35150		0.30	171.5	1770	148.0	13.4	<0.001	0.07	6.32	3.5	3.9	0.5	95.9	<0.01	0.07	1.3
ZZ35151		0.25	106.0	1610	103.0	12.0	<0.001	0.10	4.64	1.4	3.2	0.6	61.9	<0.01	0.07	0.4
ZZ35152		0.25	129.5	1840	140.5	11.3	<0.001	0.11	5.28	2.7	3.8	0.5	62.0	<0.01	0.06	1.0
ZZ35153		0.22	151.5	1110	135.5	9.6	<0.001	0.07	7.06	3.3	4.0	0.5	63.5	<0.01	0.06	1.6
ZZ35154		0.21	84.0	1320	86.2	10.1	<0.001	0.09	4.17	2.0	2.4	0.5	48.2	<0.01	0.06	0.8
ZZ35155		0.27	90.1	1370	121.0	8.9	<0.001	0.11	5.92	4.4	4.2	0.5	54.1	<0.01	0.06	1.3
ZZ35156		0.27	88.0	1840	67.1	9.0	<0.001	0.17	4.31	2.3	4.8	0.4	50.1	<0.01	0.05	0.7
ZZ35157		0.23	21.7	840	66.1	3.3	<0.001	0.12	2.77	1.3	1.2	0.3	63.1	<0.01	0.02	0.2
ZZ35158		0.35	160.5	1240	55.6	7.3	<0.001	0.09	3.76	4.8	3.9	0.5	83.1	<0.01	0.04	1.1

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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ35119		<0.005	2.61	4.12	177	0.19	31.7	803	1.6
ZZ35120		<0.005	3.94	5.13	282	0.28	55.3	1380	2.3
ZZ35121		<0.005	4.51	4.27	367	0.33	43.9	1450	1.7
ZZ35122		0.006	3.53	3.46	185	0.23	37.5	926	1.4
ZZ35123		0.006	5.46	4.35	278	0.29	36.2	973	1.3
ZZ35124		<0.005	0.90	2.13	78	0.08	13.15	364	<0.5
ZZ35125		0.005	1.69	2.85	136	0.17	19.45	510	0.6
ZZ35126		<0.005	1.48	2.35	124	0.15	14.40	366	<0.5
ZZ35127		<0.005	1.89	2.47	157	0.18	18.60	461	0.5
ZZ35128		0.005	1.12	2.61	107	0.12	20.1	307	0.5
ZZ35129		<0.005	1.39	3.16	157	0.15	22.5	460	0.5
ZZ35130		0.005	1.00	2.21	107	0.15	8.76	249	<0.5
ZZ35131		0.006	5.47	5.57	387	0.45	48.8	1370	0.9
ZZ35132		0.008	3.91	3.78	308	0.60	28.5	984	<0.5
ZZ35133		0.006	3.45	3.85	343	0.37	26.4	1010	<0.5
ZZ35134		0.006	5.92	5.67	312	0.52	38.3	779	1.0
ZZ35135		0.010	1.86	2.12	89	0.15	12.80	627	0.9
ZZ35136		0.008	1.04	2.04	58	0.07	16.25	355	0.7
ZZ35137		0.011	0.80	1.90	63	0.07	21.0	297	1.3
ZZ35138		0.008	1.18	2.81	65	0.07	19.20	514	1.2
ZZ35139		0.007	0.36	2.95	27	<0.05	7.13	180	0.9
ZZ35140		0.010	0.29	1.26	18	<0.05	4.41	115	1.2
ZZ35141		0.009	0.98	2.40	81	0.11	16.45	230	1.3
ZZ35142		<0.005	2.30	2.76	181	0.22	27.1	575	1.6
ZZ35143		0.007	0.59	1.19	48	0.07	9.38	138	1.9
ZZ35144		0.005	5.50	3.29	140	0.16	28.2	1180	0.6
ZZ35145		0.005	2.31	3.35	141	0.17	25.2	574	2.0
ZZ35146		0.005	2.98	3.25	308	0.35	21.7	900	<0.5
ZZ35147		<0.005	3.07	1.99	237	0.26	18.75	706	<0.5
ZZ35148		0.005	3.51	2.58	269	0.30	17.85	759	<0.5
ZZ35149		0.005	3.71	2.19	369	0.31	11.60	843	<0.5
ZZ35150		0.007	7.05	5.29	322	0.32	41.9	1220	1.9
ZZ35151		0.005	2.75	2.05	224	0.26	13.50	690	0.7
ZZ35152		<0.005	4.09	3.33	239	0.24	32.3	899	1.9
ZZ35153		<0.005	3.69	2.57	253	0.28	20.8	1110	1.5
ZZ35154		<0.005	2.65	1.78	168	0.19	10.95	577	1.3
ZZ35155		<0.005	3.18	3.80	160	0.19	35.1	1130	2.3
ZZ35156		<0.005	3.20	4.36	150	0.19	25.4	720	2.0
ZZ35157		0.006	0.26	0.90	28	0.35	10.45	239	0.8
ZZ35158		0.006	0.58	1.80	107	0.88	47.9	943	2.2



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ35159		0.18	0.040	0.93	1.17	287	<0.2	<10	190	1.11	0.21	1.34	3.23	21.6	6.3	22
ZZ35160		0.16	0.073	0.71	0.87	277	<0.2	<10	340	0.87	0.15	4.14	2.31	12.60	5.8	15
ZZ35161		0.13	0.143	1.06	0.97	222	<0.2	<10	180	0.87	0.15	3.48	3.25	16.55	6.5	16
ZZ35162		0.20	0.260	0.50	0.48	191	0.2	<10	110	0.58	0.07	14.20	2.25	8.55	6.0	8
ZZ35163		0.16	NSS	0.20	0.56	195.0	<0.2	10	260	0.55	0.08	5.79	1.93	6.37	3.2	10
ZZ35164		0.15	0.077	0.50	0.97	187.0	<0.2	<10	170	0.70	0.14	2.59	2.62	17.15	6.7	18
ZZ35165		0.16	0.019	0.28	0.77	413	<0.2	10	270	0.93	0.13	6.68	2.45	10.55	4.8	14
ZZ35166		0.16	0.022	0.34	0.92	659	<0.2	10	320	1.18	0.15	5.98	2.49	12.80	6.0	16
ZZ35167		0.15	0.012	0.23	0.72	362	<0.2	10	210	0.71	0.11	4.35	2.17	8.36	4.1	14
ZZ35168		0.16	0.153	0.62	1.05	921	<0.2	10	470	1.06	0.15	5.78	2.10	14.60	6.9	20
ZZ35169		0.15	0.021	0.26	0.66	1055	<0.2	10	440	0.61	0.10	4.61	2.99	7.15	4.1	11
ZZ35170		0.12	NSS	0.16	0.44	309	<0.2	<10	180	0.45	0.07	4.16	3.81	5.55	3.5	8
ZZ35171		0.18	0.008	1.61	0.65	100.0	<0.2	10	1370	0.71	0.14	1.94	1.66	6.69	3.5	22
ZZ35172		0.15	0.010	0.53	1.10	199.0	<0.2	<10	330	1.05	0.15	3.24	1.77	13.30	5.7	20
ZZ53203		0.31	0.003	0.08	2.58	18.3	<0.2	<10	90	1.06	0.26	0.09	0.24	18.40	23.9	36
ZZ53204		0.28	0.008	0.16	1.89	15.8	<0.2	<10	140	0.97	0.23	0.74	0.26	19.50	17.9	30
ZZ53205		0.30	0.005	0.09	1.81	16.3	<0.2	<10	160	0.87	0.24	0.68	0.29	21.8	19.7	29
ZZ53206		0.19	0.007	0.12	1.64	13.2	<0.2	10	140	0.84	0.21	1.58	0.33	13.95	18.3	24
ZZ53207		0.19	0.002	0.08	2.59	11.0	<0.2	<10	320	1.22	0.22	0.74	0.47	39.1	18.7	33
ZZ53208		0.26	0.002	0.05	2.87	14.4	<0.2	<10	210	1.28	0.26	0.20	0.26	32.2	27.4	36

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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ35159		1.60	26.3	2.60	3.49	0.05	0.04	0.55	0.026	0.07	12.0	9.7	0.29	239	2.33	0.01
ZZ35160		1.58	27.4	1.84	2.61	0.06	0.03	0.35	0.016	0.07	8.1	8.5	1.26	365	1.87	0.01
ZZ35161		1.38	25.1	1.95	2.67	0.05	0.02	0.54	0.021	0.05	10.4	8.1	0.79	583	2.13	0.01
ZZ35162		1.05	15.4	1.28	1.25	<0.05	0.02	0.35	0.010	0.04	5.2	5.0	7.33	281	1.70	0.01
ZZ35163		1.32	19.9	0.93	1.63	<0.05	0.02	0.20	0.013	0.04	5.1	4.3	0.35	570	1.20	0.01
ZZ35164		1.04	22.2	2.02	2.64	0.06	0.02	0.67	0.021	0.05	10.9	8.1	0.36	426	2.14	0.01
ZZ35165		2.48	28.3	1.41	2.20	0.06	0.04	0.21	0.017	0.09	9.4	9.3	0.31	453	1.66	0.01
ZZ35166		3.16	34.8	1.89	2.80	0.06	0.04	0.29	0.019	0.09	9.3	12.0	0.36	365	2.00	0.01
ZZ35167		2.03	21.0	1.24	2.09	0.05	<0.02	0.25	0.012	0.07	7.1	6.6	0.14	470	1.36	0.01
ZZ35168		2.24	30.6	2.09	3.13	0.05	0.03	3.41	0.023	0.09	10.9	10.6	1.07	544	2.64	0.01
ZZ35169		1.55	21.5	1.27	1.82	0.05	0.02	0.24	0.011	0.05	4.9	5.7	0.14	318	1.81	0.01
ZZ35170		0.99	14.0	0.96	1.27	<0.05	0.03	0.24	0.009	0.05	4.0	3.1	0.09	520	1.68	0.01
ZZ35171		1.43	40.8	2.11	1.91	0.06	0.03	0.31	0.025	0.06	4.8	3.9	0.10	114	4.39	0.01
ZZ35172		1.88	28.1	2.12	2.90	0.05	0.03	0.78	0.020	0.07	11.3	7.4	0.21	346	2.25	0.01
ZZ53203		2.48	104.5	6.39	8.03	0.06	0.05	0.07	0.061	0.07	6.9	45.7	0.73	511	1.04	<0.01
ZZ53204		2.34	98.9	4.51	5.65	0.07	0.07	0.20	0.044	0.10	9.3	36.7	0.88	569	0.97	0.01
ZZ53205		2.26	106.0	4.65	5.68	0.07	0.06	0.17	0.036	0.09	8.8	32.3	0.89	492	0.82	0.01
ZZ53206		2.70	96.5	3.62	4.81	0.06	0.06	0.17	0.034	0.10	5.7	26.9	0.82	648	1.37	0.01
ZZ53207		2.20	96.9	4.42	7.68	0.08	0.05	0.06	0.055	0.08	12.1	34.1	0.72	756	0.78	0.01
ZZ53208		2.34	73.1	4.93	7.14	0.06	0.04	0.06	0.049	0.08	11.6	35.9	0.59	889	0.99	<0.01

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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ35159		0.56	33.8	910	75.4	8.1	<0.001	0.10	2.86	3.6	1.8	0.4	27.8	<0.01	0.03	1.0
ZZ35160		0.39	31.2	1010	28.8	6.3	<0.001	0.13	1.68	2.0	1.3	0.3	37.3	<0.01	0.01	0.4
ZZ35161		0.37	31.3	1070	53.9	5.9	<0.001	0.17	2.85	1.6	1.9	0.4	35.3	<0.01	0.02	0.2
ZZ35162		0.20	30.2	510	27.0	3.8	<0.001	0.02	1.70	1.9	1.0	0.2	80.7	<0.01	0.02	0.4
ZZ35163		0.30	17.9	980	13.9	3.7	<0.001	0.23	1.25	1.2	1.1	0.2	39.3	<0.01	0.01	<0.2
ZZ35164		0.47	30.4	1100	35.1	6.7	<0.001	0.14	3.71	2.0	1.7	0.3	34.9	<0.01	0.03	0.2
ZZ35165		0.33	40.8	1230	27.8	5.9	<0.001	0.16	1.76	2.9	1.7	0.4	56.5	<0.01	0.04	0.3
ZZ35166		0.35	56.1	1190	28.5	7.1	<0.001	0.13	2.09	2.8	2.3	0.4	53.8	<0.01	0.04	0.3
ZZ35167		0.28	30.3	1280	19.1	5.1	<0.001	0.21	1.41	1.2	1.2	0.3	41.5	<0.01	0.01	<0.2
ZZ35168		0.32	51.1	1750	47.9	6.9	<0.001	0.14	7.52	2.6	2.1	0.4	66.4	<0.01	0.04	0.3
ZZ35169		0.28	33.4	1310	14.6	4.0	<0.001	0.23	1.94	1.0	1.4	0.2	77.2	<0.01	0.02	<0.2
ZZ35170		0.25	24.7	1450	9.9	4.3	<0.001	0.24	2.15	3.2	2.0	0.5	32.5	<0.01	0.02	0.2
ZZ35171		0.24	57.4	1590	11.2	6.3	<0.001	0.15	1.77	2.8	5.1	0.3	80.3	<0.01	0.09	0.3
ZZ35172		0.42	37.5	2230	17.5	7.6	<0.001	0.18	1.73	1.5	2.3	0.4	36.5	<0.01	0.02	0.2
ZZ53203		0.26	32.4	350	15.9	8.8	<0.001	0.02	0.46	6.9	0.5	0.6	5.8	<0.01	0.14	2.3
ZZ53204		0.29	34.2	690	14.5	7.0	<0.001	0.04	0.53	11.4	1.7	0.4	22.8	<0.01	0.10	2.2
ZZ53205		0.26	35.4	650	14.0	7.0	<0.001	0.04	0.50	10.2	1.7	0.3	24.6	<0.01	0.12	2.0
ZZ53206		0.29	27.4	740	11.3	7.8	<0.001	0.11	0.44	7.3	2.8	0.3	77.7	<0.01	0.09	0.9
ZZ53207		0.38	30.8	760	11.1	11.3	<0.001	0.05	0.34	9.5	1.2	0.6	27.5	<0.01	0.08	1.5
ZZ53208		0.64	38.2	360	15.3	12.2	<0.001	0.02	0.44	6.6	1.0	0.6	9.9	<0.01	0.08	2.9

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**CERTIFICATE OF ANALYSIS WH12223913**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ35159		0.015	0.37	1.00	60	0.40	17.25	287	1.2
ZZ35160		0.009	0.30	1.60	45	0.29	15.65	241	1.1
ZZ35161		0.009	0.36	1.68	53	0.30	21.5	279	0.8
ZZ35162		0.007	0.27	1.85	34	0.25	10.85	217	0.7
ZZ35163		0.008	0.21	3.26	40	0.19	11.85	249	0.7
ZZ35164		0.013	0.29	2.59	60	0.19	19.90	223	0.8
ZZ35165		0.008	0.31	3.17	54	0.40	25.8	270	1.3
ZZ35166		0.007	0.46	2.82	63	0.43	28.3	367	1.3
ZZ35167		0.005	0.34	2.51	52	0.27	20.5	264	0.6
ZZ35168		0.007	1.39	4.44	75	0.37	29.2	359	1.0
ZZ35169		0.006	0.48	5.70	47	0.25	15.95	255	0.8
ZZ35170		0.008	0.36	2.75	41	0.16	19.10	269	1.4
ZZ35171		0.006	0.34	3.38	64	0.14	32.3	244	1.3
ZZ35172		0.010	0.38	4.50	70	0.21	30.9	270	1.0
ZZ53203		0.005	0.12	0.38	75	<0.05	3.89	69	2.0
ZZ53204		0.009	0.10	0.69	50	0.05	15.40	87	1.8
ZZ53205		0.008	0.08	0.59	51	0.05	12.35	95	1.6
ZZ53206		0.007	0.10	0.47	43	<0.05	10.55	77	1.6
ZZ53207		0.007	0.10	0.50	65	0.06	11.85	72	1.2
ZZ53208		0.012	0.14	0.49	66	0.12	7.10	66	1.5



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Project: AtacRegional- AreaB- RacklaCntrl

**CERTIFICATE OF ANALYSIS WH12223913**

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41 ME- MS41	NSS is non- sufficient sample. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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**CERTIFICATE WH12226810**

Project: Rackla Gold (Area B)  
 P.O. No.: NR- 5  
 This report is for 35 Rock samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226810**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M389451		0.22	<0.01	0.51	2.45	18.3	640	2.11	0.26	0.18	1.08	49.5	3.2	1660	4.11	20.6
M389452		0.35	<0.01	0.47	2.43	13.6	630	2.24	0.31	0.13	1.25	49.0	3.2	1720	4.16	20.7
M389453		0.54	<0.01	0.46	1.98	4.5	1120	1.64	0.14	0.07	0.32	34.1	2.0	520	2.29	20.3
M389454		0.38	<0.01	0.02	0.04	<0.2	100	<0.05	0.01	8.32	0.16	0.65	0.4	28	0.06	1.2
M389455		0.39	<0.01	0.02	0.15	0.5	170	<0.05	0.02	6.18	0.25	1.67	0.3	35	0.17	2.7
M389456		0.30	<0.01	0.02	0.09	0.7	110	<0.05	0.02	5.85	0.29	1.00	0.2	31	0.11	2.6
M389457		0.54	<0.01	0.03	0.08	0.6	520	0.08	0.02	8.03	0.25	0.92	0.4	25	0.11	2.5
M389458		0.09	<0.01	0.03	0.14	<5	130	0.06	0.03	10.75	1.02	1.67	0.6	29	0.16	4.4
M389459		0.20	<0.01	0.01	0.02	<5	80	<0.05	0.02	33.6	0.27	1.58	0.3	<1	<0.05	1.4
M389460		0.18	<0.01	0.09	0.16	<0.2	210	<0.05	0.02	4.46	0.25	1.78	0.5	45	0.19	3.0
M389461		0.18	<0.01	0.18	0.19	33.6	70	0.08	0.02	0.23	0.11	4.38	0.8	28	0.49	6.0
M389462		0.21	<0.01	0.21	0.09	15.4	40	<0.05	0.02	0.20	0.09	0.95	0.3	23	0.22	1.5
M389463		0.12	<0.01	0.07	0.19	18	90	0.08	0.02	18.10	0.42	5.09	0.7	6	0.33	4.8
M389464		0.45	<0.01	0.06	0.03	<5	70	<0.05	0.02	34.4	0.70	1.91	0.4	<1	0.05	1.7
M389465		0.30	<0.01	0.05	0.13	39	50	0.16	0.02	32.7	0.68	2.38	0.7	2	0.17	2.4
M389466		0.12	<0.01	0.07	0.25	13.3	110	0.13	0.02	7.45	0.21	4.15	0.8	18	0.60	3.0
M389467		0.09	<0.01	0.12	0.19	8	50	0.06	0.02	15.30	0.60	4.83	0.8	5	0.41	3.0
M389468		0.23	<0.01	0.06	0.20	6	110	0.12	0.03	11.45	0.21	2.56	0.6	10	0.43	2.0
M389469		0.16	<0.01	0.09	0.29	970	110	0.20	0.02	0.79	3.40	13.75	14.6	43	0.35	11.9
M389470		0.26	0.01	0.07	0.13	201	60	0.07	0.02	0.27	0.56	1.58	1.5	25	0.35	7.6
M389471		0.07	<0.01	0.12	0.10	77.9	60	0.10	0.02	0.39	0.28	1.92	1.5	29	0.41	7.1
M389472		0.32	<0.01	0.10	0.02	<5	30	0.05	0.01	32.8	1.03	1.82	1.4	<1	<0.05	2.1
M389473		0.26	<0.01	0.02	0.09	0.6	90	<0.05	0.01	4.62	0.24	0.84	0.2	17	0.07	2.1
M389474		0.32	<0.01	0.16	0.13	<5	400	0.08	0.01	26.5	2.65	3.05	1.3	2	0.11	2.5
M389475		1.18	<0.01	0.42	0.08	6.5	160	<0.05	0.03	0.34	0.16	0.88	4.1	80	0.13	12.5
M389476		0.30	<0.01	0.04	0.20	1.0	340	0.05	0.02	8.74	2.22	2.08	0.9	29	0.24	4.2
M389477		0.22	<0.01	0.02	0.03	<5	50	<0.05	0.01	10.25	0.64	0.73	0.2	9	<0.05	2.2
M389478		0.37	<0.01	0.01	0.05	<5	40	0.05	0.01	33.5	112.0	1.45	0.3	<1	<0.05	1.4
M389479		0.30	<0.01	0.01	0.07	<5	130	0.06	0.02	34.8	94.0	3.37	0.4	<1	0.09	2.8
M389480		0.40	<0.01	0.27	0.09	5.1	180	<0.05	0.03	2.91	1.11	0.89	4.8	41	0.15	10.5
M389481		0.39	<0.01	0.83	0.11	11.4	130	0.05	0.03	1.40	0.57	2.09	5.5	60	0.14	12.5
M389482		0.21	<0.01	0.56	0.26	<5	7690	0.11	0.02	22.8	2.04	4.45	3.7	5	0.25	4.4
M389483		0.22	<0.01	0.02	0.13	<5	240	0.07	0.02	36.9	111.0	2.05	0.6	<1	0.15	3.5
M389484		0.54	<0.01	0.03	0.25	<5	250	0.08	0.02	36.4	219	2.74	0.6	<1	0.31	2.9
M389485		0.22	<0.01	0.03	0.12	<5	140	0.05	0.02	31.7	12.40	2.22	2.1	<1	0.17	1.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226810**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M389451		11.30	6.30	0.06	1.1	0.10	0.072	0.56	64.3	42.1	0.15	55	12.60	0.06	11.1	123.0
M389452		14.95	6.13	0.06	1.0	0.05	0.078	0.53	63.1	38.6	0.13	40	16.90	0.03	10.2	150.5
M389453		3.20	5.33	<0.05	0.8	<0.01	0.036	0.36	28.1	49.5	0.08	28	2.01	0.04	4.8	163.0
M389454		0.15	0.33	<0.05	0.1	<0.01	<0.005	0.01	1.5	2.1	1.80	88	0.25	<0.01	0.1	6.6
M389455		0.23	0.31	<0.05	<0.1	<0.01	0.007	0.04	2.2	2.4	0.04	32	0.31	0.01	0.2	10.7
M389456		0.21	0.18	<0.05	<0.1	<0.01	<0.005	0.02	1.7	3.3	0.04	42	0.27	0.01	0.1	6.6
M389457		0.24	0.12	<0.05	<0.1	<0.01	<0.005	0.02	1.9	2.3	0.04	27	0.23	0.01	0.1	14.7
M389458		0.23	0.35	<0.05	0.1	<0.01	<0.005	0.04	2.5	2.2	0.06	59	0.31	0.01	0.2	10.8
M389459		0.04	0.08	<0.05	<0.1	<0.1	<0.005	<0.01	4.4	0.3	0.14	88	0.10	<0.01	0.1	1.9
M389460		0.34	0.34	<0.05	<0.1	0.01	0.006	0.04	2.4	4.0	0.04	71	0.48	0.01	0.2	4.7
M389461		0.32	0.47	<0.05	0.1	0.02	<0.005	0.04	12.7	5.7	0.01	41	0.37	0.01	0.2	6.1
M389462		0.26	0.25	<0.05	<0.1	0.02	<0.005	0.02	2.1	3.4	0.01	33	0.64	<0.01	0.1	2.6
M389463		0.16	0.70	<0.05	0.1	0.02	<0.005	0.05	14.5	6.4	0.03	113	0.20	0.01	0.3	4.0
M389464		0.05	0.13	<0.05	<0.1	<0.1	<0.005	0.01	9.6	0.3	0.10	128	0.12	0.01	<0.1	1.6
M389465		0.26	0.30	<0.05	0.1	<0.1	<0.005	0.02	8.3	1.0	0.06	212	0.31	<0.01	0.2	5.1
M389466		0.25	0.65	<0.05	0.1	0.08	<0.005	0.06	9.0	2.2	0.04	80	0.25	0.01	0.3	3.7
M389467		0.16	0.57	<0.05	0.1	0.03	<0.005	0.05	12.9	6.9	0.04	110	0.23	0.01	0.2	3.5
M389468		0.17	0.57	<0.05	0.1	0.01	<0.005	0.04	4.1	2.7	0.08	70	0.32	0.02	0.3	2.7
M389469		6.53	1.20	<0.05	0.1	0.37	0.009	0.03	42.9	6.8	0.01	145	81.1	0.01	0.2	122.5
M389470		0.93	0.54	<0.05	<0.1	0.05	0.005	0.04	4.5	6.0	0.01	45	13.50	<0.01	0.1	18.8
M389471		0.76	0.39	<0.05	<0.1	0.01	<0.005	0.03	5.6	2.7	0.01	41	1.67	<0.01	0.1	23.8
M389472		0.05	0.11	<0.05	<0.1	0.02	<0.005	<0.01	9.1	0.4	0.06	106	0.31	<0.01	<0.1	2.4
M389473		0.18	0.11	<0.05	<0.1	<0.01	<0.005	0.01	1.8	5.3	0.02	31	0.18	0.01	0.1	6.8
M389474		0.14	0.37	<0.05	0.1	<0.1	0.008	0.04	4.4	1.5	0.12	154	0.43	0.01	0.2	16.7
M389475		2.35	0.18	<0.05	<0.1	0.36	<0.005	0.02	1.4	5.0	0.01	165	3.24	0.01	0.2	30.7
M389476		0.34	0.43	<0.05	0.1	<0.01	<0.005	0.06	2.4	3.6	0.05	51	0.57	0.01	0.3	17.3
M389477		0.12	0.08	<0.05	<0.1	<0.01	<0.005	<0.01	2.0	1.9	0.05	39	0.17	<0.01	0.1	7.5
M389478		0.06	0.15	<0.05	<0.1	<0.1	<0.005	0.01	3.5	0.4	0.09	44	0.13	<0.01	0.1	10.7
M389479		0.09	0.24	<0.05	<0.1	<0.1	<0.005	0.02	7.1	0.5	0.10	55	0.15	<0.01	0.2	14.3
M389480		2.45	0.18	<0.05	0.1	0.13	<0.005	0.02	1.6	3.0	0.02	356	5.00	0.01	0.1	37.8
M389481		4.32	0.25	<0.05	<0.1	0.37	<0.005	0.02	3.9	3.6	0.02	119	3.35	0.01	0.1	44.0
M389482		0.18	0.62	0.05	0.1	<0.01	0.006	0.09	4.9	2.4	0.09	358	0.62	<0.01	0.4	29.2
M389483		0.10	0.33	<0.05	0.1	<0.1	<0.005	0.04	3.5	0.8	0.12	40	0.23	<0.01	0.2	32.0
M389484		0.13	0.64	<0.05	0.1	<0.1	0.005	0.08	4.2	1.6	0.11	39	0.21	0.01	0.4	36.2
M389485		0.10	0.33	0.05	<0.1	<0.1	<0.005	0.04	4.6	0.9	0.10	165	0.16	<0.01	0.2	17.9



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226810**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M389451		1560	9.2	41.8	0.002	0.13	5.22	4.3	4	0.7	111.5	0.25	0.31	6.9	0.148	0.33
M389452		1990	10.5	40.8	0.003	0.11	3.03	4.7	5	0.6	104.5	0.27	0.37	7.5	0.155	0.29
M389453		560	5.2	26.0	<0.002	0.05	1.41	4.0	1	0.5	47.8	0.19	0.16	4.3	0.090	0.14
M389454		140	<0.5	0.3	<0.002	<0.01	0.14	0.1	1	<0.2	53.5	<0.05	<0.05	<0.2	<0.005	<0.02
M389455		110	0.8	2.0	<0.002	0.01	0.26	0.3	<1	<0.2	41.3	<0.05	0.06	0.3	0.006	0.02
M389456		140	0.8	0.8	<0.002	<0.01	0.22	0.2	1	<0.2	28.1	<0.05	<0.05	<0.2	<0.005	<0.02
M389457		70	1.0	0.6	<0.002	0.01	0.29	0.2	1	<0.2	43.0	<0.05	<0.05	<0.2	<0.005	<0.02
M389458		140	1.0	2.0	<0.002	0.01	0.31	0.3	1	<0.2	70.4	<0.05	<0.05	0.2	0.006	0.02
M389459		60	0.6	0.2	<0.002	<0.01	0.15	0.2	1	<0.2	228	<0.05	<0.05	<0.2	<0.005	<0.02
M389460		60	1.7	2.2	0.003	0.01	0.44	0.4	1	<0.2	48.0	<0.05	<0.05	0.2	0.005	<0.02
M389461		360	0.9	2.7	<0.002	<0.01	0.33	0.4	3	0.2	14.2	<0.05	0.05	0.3	0.008	0.05
M389462		50	0.7	1.5	<0.002	<0.01	0.62	0.2	1	<0.2	6.0	<0.05	<0.05	<0.2	<0.005	0.03
M389463		790	1.4	3.1	0.002	<0.01	0.21	1.3	1	<0.2	60.2	<0.05	<0.05	0.4	0.009	0.02
M389464		200	<0.5	0.5	<0.002	<0.01	0.14	1.4	2	<0.2	196.5	<0.05	<0.05	<0.2	<0.005	<0.02
M389465		160	1.2	1.6	0.002	<0.01	0.27	2.2	3	<0.2	61.9	<0.05	<0.05	0.2	0.006	<0.02
M389466		330	0.9	4.4	<0.002	0.01	0.19	1.0	1	0.2	66.8	<0.05	<0.05	0.4	0.012	0.04
M389467		1170	1.7	3.3	<0.002	<0.01	0.19	1.3	2	<0.2	55.1	<0.05	<0.05	0.3	0.009	0.02
M389468		150	0.9	3.5	<0.002	0.01	0.17	0.6	1	<0.2	152.5	<0.05	0.06	0.3	0.009	0.02
M389469		720	2.0	1.9	0.004	0.01	1.65	0.8	2	<0.2	11.5	<0.05	<0.05	0.5	0.005	0.17
M389470		290	1.9	2.1	<0.002	<0.01	5.11	0.2	1	<0.2	8.3	<0.05	<0.05	0.3	<0.005	0.08
M389471		1250	1.1	2.0	<0.002	<0.01	0.64	0.3	1	0.2	17.6	<0.05	<0.05	<0.2	<0.005	0.03
M389472		220	0.9	0.2	<0.002	<0.01	0.15	1.6	1	<0.2	154.5	<0.05	0.05	<0.2	<0.005	<0.02
M389473		100	0.5	0.5	<0.002	<0.01	0.16	0.2	1	<0.2	20.5	<0.05	<0.05	0.2	<0.005	<0.02
M389474		140	1.6	2.1	<0.002	0.01	0.18	1.0	1	<0.2	164.0	<0.05	<0.05	0.2	0.006	<0.02
M389475		110	11.1	0.7	0.002	0.01	0.87	0.1	1	0.2	4.6	<0.05	0.12	<0.2	<0.005	0.10
M389476		100	1.9	2.9	<0.002	0.01	0.43	0.5	1	<0.2	66.6	<0.05	0.08	0.2	0.008	0.02
M389477		60	0.6	0.3	<0.002	<0.01	0.17	0.1	1	<0.2	62.3	<0.05	0.05	<0.2	<0.005	<0.02
M389478		200	1.7	0.6	<0.002	<0.01	0.16	0.4	1	<0.2	90.1	<0.05	<0.05	<0.2	<0.005	<0.02
M389479		310	2.1	1.1	0.003	<0.01	0.21	0.7	1	<0.2	86.4	<0.05	<0.05	0.4	0.006	<0.02
M389480		140	6.1	0.8	<0.002	0.01	0.64	0.2	1	<0.2	22.5	<0.05	<0.05	<0.2	<0.005	0.25
M389481		450	24.0	1.0	<0.002	0.02	1.27	0.3	2	0.2	17.0	<0.05	0.05	<0.2	<0.005	0.12
M389482		290	2.4	4.0	<0.002	0.20	0.30	2.2	1	<0.2	178.5	<0.05	<0.05	0.4	0.011	0.08
M389483		250	1.7	2.1	<0.002	0.01	0.15	0.9	1	<0.2	103.5	<0.05	<0.05	0.2	0.007	0.03
M389484		600	2.0	4.0	<0.002	0.01	0.11	1.2	1	<0.2	90.9	<0.05	<0.05	0.4	0.012	0.05
M389485		170	0.9	2.0	<0.002	<0.01	0.08	0.6	1	<0.2	100.0	<0.05	<0.05	0.2	0.006	0.03



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**CERTIFICATE OF ANALYSIS WH12226810**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M389451		2.3	260	0.7	20.5	1090	56.0
M389452		2.4	313	0.6	19.0	1310	49.1
M389453		1.3	105	0.2	13.2	823	33.0
M389454		0.4	5	<0.1	2.4	83	4.1
M389455		0.7	8	0.1	3.4	62	1.9
M389456		0.7	6	<0.1	2.8	48	1.1
M389457		0.5	8	<0.1	3.9	74	1.0
M389458		0.7	8	0.1	5.5	85	1.7
M389459		0.5	6	<0.1	8.8	9	0.6
M389460		1.1	9	0.1	4.3	32	1.8
M389461		1.5	7	0.1	5.6	18	2.4
M389462		0.2	7	<0.1	1.1	10	1.2
M389463		1.6	10	0.1	16.7	19	2.9
M389464		1.6	7	<0.1	20.0	10	0.7
M389465		2.1	15	0.1	19.0	44	2.4
M389466		0.6	9	0.1	8.2	16	3.4
M389467		1.7	9	0.1	17.0	25	2.6
M389468		0.6	6	<0.1	5.0	13	2.5
M389469		8.0	30	0.1	40.7	788	2.9
M389470		0.6	9	<0.1	1.9	134	1.6
M389471		1.2	10	0.1	4.8	78	1.8
M389472		1.3	7	<0.1	17.0	17	0.6
M389473		0.2	4	<0.1	2.5	39	1.0
M389474		0.9	15	0.1	9.1	138	3.1
M389475		0.4	10	0.1	2.1	103	1.4
M389476		0.5	15	0.1	4.6	114	2.4
M389477		0.2	3	<0.1	3.3	135	1.1
M389478		0.7	5	<0.1	9.5	292	1.0
M389479		0.8	6	<0.1	14.0	483	2.1
M389480		0.4	26	<0.1	3.2	156	2.0
M389481		0.6	26	0.1	7.5	164	1.4
M389482		6.0	25	0.1	20.5	189	4.9
M389483		0.7	6	<0.1	11.8	1000	2.6
M389484		0.8	10	<0.1	20.4	807	3.8
M389485		0.5	8	<0.1	7.9	188	2.5



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**CERTIFICATE OF ANALYSIS WH12226810**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41 ME- MS61	REE's may not be totally soluble in this method. Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor. Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



**APPENDIX VI**  
**PYRAMID AUGER DRILLING LOGS**

Hole	Easting	Northing	Elevation(GPS)	From (m)	To (m)	Interval (m)	Colour	Grain Size	Frozen	Mzn	DESCRIPTION	Sample #	Au ppm	As ppm	Hg ppm	Sb ppm	Tl ppm
PYAG-12-01	609027	7115187	1100	0.00	0.71	0.71	Grey	Silt w cobbles	yes	Suspect	Orange and yellow oxidation throughout	L828151	0.01	66.1	0.82	1.45	1.19
PYAG-12-01	609027	7115187	1100	0.71	1.47	0.76	Grey	Silt w cobbles	yes	Suspect	Orange and yellow oxidation throughout	L828152	0.01	114.5	1	1.32	1.75
PYAG-12-01	609027	7115187	1100	1.47	2.24	0.76	Grey	Silt w cobbles	Partial	Suspect	Still oxidation present, not as frozen	L828153	<0.01	2550	4.6	5.93	53
PYAG-12-01	609027	7115187	1100	2.24	3.00	0.76	Grey/Black	Silt w cobbles	no	suspect	Some blacker sootier soil present, with possible orpiment.	L828154	<0.01	1950	0.27	1.86	7.34
PYAG-12-01	609027	7115187	1100	3.00	3.76	0.76	Grey/black	Silt w cobbles	no	suspect	Getting darker, some orange material (oxidation? Orp?) with black soil	L828155	<0.01	2110	0.3	1.41	3.69
PYAG-12-01	609027	7115187	1100	3.76	4.52	0.76	Black	Silt w cobbles	no	probable	Increasing amount of orange material with black soil	L828156	<0.01	2140	0.37	1.3	3.39
PYAG-12-01	609027	7115187	1100	4.52	5.28	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil with white calcite crystals throughout	L828157	<0.01	1355	0.5	2.24	7.88
PYAG-12-01	609027	7115187	1100	5.28	6.05	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil with white calcite crystals throughout	L828158	0.01	1160	0.94	1.58	8.69
PYAG-12-01	609027	7115187	1100	6.05	6.81	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, less calcite than previous sample	L828159	<0.01	572	0.2	0.86	2.1
PYAG-12-01	609027	7115187	1100	6.81	7.57	0.76	Black	Silt w cobbles	no	non	Black, homogenous soil, small amount of white calcite crystals	L828160	<0.01	467	0.25	0.78	1.92
PYAG-12-01	609027	7115187	1100	7.57	8.33	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, small amount of white calcite crystals	L828161	0.01	5170	0.81	1.61	3.32
PYAG-12-01	609027	7115187	1100	8.33	9.09	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, small amount of white calcite crystals	L828162	<0.01	5600	0.81	1.48	2.87
PYAG-12-01	609027	7115187	1100	9.09	9.86	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, small amount of white calcite crystals	L828163	<0.01	6910	1.06	1.66	3.06
PYAG-12-01	609027	7115187	1100	9.86	10.62	0.76	Black	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips. Rep has a good chip	L828164	<0.01	4570	0.75	1.37	3.21
PYAG-12-01	609027	7115187	1100	10.62	11.38	0.76	Black/grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips.	L828165	0.16	1145	1.65	1.56	13.65

PYAG-12-01	609027	7115187	1100	11.38	12.14	0.76	Black/grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips.	L828166	0.03	1060	1.32	1.2	9.9
PYAG-12-01	609027	7115187	1100	12.14	12.90	0.76	Grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips.	L828167	<0.01	864	1.21	1.01	10.9
PYAG-12-01	609027	7115187	1100	12.90	13.67	0.76	Grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips. Very good chip in rep	L828168	<0.01	1620	1.82	1.28	12.75
PYAG-12-01	609027	7115187	1100	13.67	14.43	0.76	Brown	Silt/Sand	no	no	Out of black sooty material. Similar material to top of hole	L828169	<0.01	1600	1.72	1.78	8.4
PYAG-12-01	609027	7115187	1100	14.43	15.19	0.76	Brown	Silt/sand	no	no	Brown material with some slightly oxidized areas.	L828170	<0.01	534	1.73	1.64	3.63
PYAG-12-02	608937	7115191	1104	0.00	0.61	0.61	Brown/Grey	Silt/cobbles	Yes	no	Some oxidized material (limonite).	L828171	<0.01	20.6	0.14	0.84	0.9
PYAG-12-02	608937	7115191	1104	0.61	1.37	0.76	Brown/Grey	Clay/cobbles	Yes	no	Contains chips of grey/black ls.	L828172	<0.01	30	0.38	0.87	0.53
PYAG-12-02	608937	7115191	1104	1.37	2.13	0.76	Grey/Brown	Clay/cobbles	Yes	no	Increasing amount of ls chips.	L828173	<0.01	25	0.51	0.79	0.37
PYAG-12-02	608937	7115191	1104	2.13	2.90	0.76	Grey/Brown	Clay/cobbles	No	No	Dry. Lots of ls chips. Drilling through a rock	L828174	<0.01	135	2.35	1.85	0.86
PYAG-12-03				0.00	0.91	0.91	Grey/Brown	Clay/cobbles	Yes	no	ls chips	L828175	<0.01	31	0.25	4.51	0.85
PYAG-12-03				0.91	1.68	0.76	Grey/Brown	Clay/cobbles	Yes	no	ls Chips	L828176	<0.01	23	0.15	0.86	0.69
PYAG-12-03				1.68	2.44	0.76	Grey	Clay/cobbles	Yes	no	ls Chips	L828177	0.01	32	0.28	0.6	0.43
PYAG-12-03				2.44	3.20	0.76	Grey	Clay/cobbles	No	no	Increasing amount of ls chips	L828178	<0.01	236	3.38	2.55	2.35
PYAG-12-03				3.20	3.96	0.76	Grey	Clay/cobbles	No	no	Increasing amount of ls chips	L828179	<0.01	279	3.6	2.88	2.27
PYAG-12-03				3.96	4.72	0.76	Grey	Clay/cobbles	No	no	Pulverised ls. Bedrock?	L828180	<0.01	54	0.6	0.82	0.63
PYAG-12-04				0.00	0.94	0.94	Grey/Brown	Silt + clay	Yes	no	Some greenish tint in parts of soil	L828181	<0.01	21.6	0.12	0.93	0.81
PYAG-12-04				0.94	1.70	0.76	Brown	Silt + clay	Yes	no	Still contains areas with green tint	L828182	<0.01	184.5	2.24	1.12	1.49
PYAG-12-04				1.70	2.46	0.76	Brown	Silt + clay	Yes	no	Still has pockets of green tinted soil	L828183	<0.01	135.5	9.9	0.59	1.77
PYAG-12-04				2.46	2.77	0.30	Brown/Black	Silt + clay	Semi	no	Darker material	L828184	<0.01	673	24.1	3.13	12.4
PYAG-12-04				2.77	3.38	0.61	Black/dark gre	Silt + clay	No	no	Uniform soil with small chips of black rock	L828185	<0.01	478	7.86	0.84	3.92
PYAG-12-04				3.38	4.14	0.76	Black	Silt + clay	No	no	Uniform soil with small chips of black rock	L828186	<0.01	897	11.1	0.85	6.25
PYAG-12-04				4.14	4.90	0.76	Black	Silt + clay	No	no	Uniform soil with small chips of black rock	L828187	<0.01	697	10.6	0.64	5.23
PYAG-12-04				4.90	5.66	0.76	Black	Silt + clay	No		Uniform soil with small chips of black rock	L828188	<0.01	508	14.4	0.72	3.6
PYAG-12-04				5.66	6.43	0.76	Black	Silt + clay	No		Slightly lighter coloured soil	L828189	<0.01	474	14.3	0.65	2.99
PYAG-12-04				6.43	7.19	0.76	Black	Silt + clay	No		Back to darker soil	L828190	<0.01	462	14.6	0.57	3.3
PYAG-12-04				7.19	7.95	0.76	Black	Silt + clay	No			L828191	<0.01	392	15.9	0.51	2.76
PYAG-12-04				7.95	8.71	0.76	Black	Silt + clay	No			L828192	0.01	776	13.8	0.66	5.9
PYAG-12-04				8.71	9.47	0.76	Black	Silt + clay	No			L828193	<0.01	609	19.1	0.63	4.52

PYAG-12-04				9.47	10.24	0.76	Black	Silt + clay	No			L828194	<0.01	895	20.7	0.62	5.23
PYAG-12-04				10.24	11.00	0.76	Black	Silt + clay	No			L828195	<0.01	792	27.3	0.54	4.68
PYAG-12-04				11.00	11.76	0.76	Black	Silt + clay	No	orp	Small orp chips, see rep	L828196	<0.01	788	30.3	0.49	3.17
PYAG-12-04				11.76	12.52	0.76	Black	Silt + clay	No	orp	Small orp chips	L828197	<0.01	621	28.4	0.47	3.28
PYAG-12-04				12.52	13.28	0.76	Black	Silt + clay	No	orp + real	Increasing amount of orp, possible realgar	L828198	0.02	12750	35	2.22	5.31
PYAG-12-04				13.28	14.04	0.76	Black	Silt + clay	No	orp + real	Same as 198	L828199	0.03	13150	28.5	1.91	4.75
PYAG-12-04				14.04	14.80	0.76	Black	Silt + clay	No	orp + real	Same as 198	L828200	0.05	9570	20.4	2.15	5.54
PYAG-12-04				14.80	15.56	0.76	Black	Silt + clay	No	orp + real	Lesser amounts	L828201	0.04	12850	28.7	2.74	6.59
PYAG-12-05	609136	7115176		0.00	0.76	0.76	Brown	Silt + clay	Yes	no	Till	L828202	<0.01	115	0.54	0.64	0.77
PYAG-12-05	609136	7115176		0.76	1.52	0.76	Brown	Silt + clay	Yes	no	Till	L828203	<0.01	167	0.59	0.71	0.97
PYAG-12-05	609136	7115176		1.52	2.29	0.76	Brown	Silt + clay	Yes	no	Till	L828204	<0.01	281	14.2	0.64	1.67
PYAG-12-06	609121	7115175		0.00	0.76	0.76	Brown	Silt + clay	Yes	no	Till	L828205	<0.01	97.5	4.6	1.09	0.71
PYAG-12-06	609121	7115175		0.76	1.52	0.76	Brown	Silt + clay	Yes	no	Till	L828206	<0.01	117	10.8	0.63	0.72
PYAG-12-06	609121	7115175		1.52	2.29	0.76	Brown	Silt + clay	Yes	no	Till	L828207	<0.01	385	6.93	0.48	2.16
PYAG-12-07				0.00	1.02	1.02	Grey/Brown	Silt + clay	Yes		Mostly silt+clay plus some cobbles. Till	L828208	<0.01	17.8	0.1	0.81	0.74
PYAG-12-07				1.02	1.78	0.76	Brown	Silt + clay	Yes		Till	L828209	<0.01	25.6	0.11	0.78	0.64
PYAG-12-07				1.78	2.54	0.76	Brown	Silt + clay	Yes		Till	L828210	<0.01	22	0.08	0.68	0.54
PYAG-12-07				2.54	3.30	0.76	Brown/Black	Silt + clay	Semi		Till	L828211	<0.01	1685	0.88	1.17	1.2
PYAG-12-07				3.30	4.06	0.76	Black/dark gre	Silt + clay	No		Till	L828212	<0.01	1185	0.3	0.94	1.1
PYAG-12-07				4.06	4.83	0.76	Black	Silt + clay	No		Darker material	L828213	<0.01	1505	0.28	2.61	3.72
PYAG-12-07				4.83	5.59	0.76	Black	Silt + clay	No		Darker material	L828214	<0.01	746	0.22	1.4	3.39
PYAG-12-07				5.59	6.35	0.76	Black	Silt + clay	No		Darker material	L828215	<0.01	241	0.18	1.03	3.21
PYAG-12-07				6.35	7.11	0.76	Black	Silt + clay	No		Darker material	L828216	<0.01	442	0.2	1.25	3.73
PYAG-12-07				7.11	7.87	0.76	Black	Silt + clay	No		Darker material	L828217	<0.01	169	0.18	1.16	1.44
PYAG-12-07				7.87	8.64	0.76	Black	Silt + clay	No		Darker material	L828218	<0.01	189.5	0.16	1.01	1.32
PYAG-12-07				8.64	9.40	0.76	Black	Silt + clay	No		Darker material	L828219	<0.01	81.1	0.15	1.07	1.25
PYAG-12-07				9.40	10.16	0.76	Black	Silt + clay	No	Poss orp	Possible orp, specs of orange in mud (very minor)	L828220	<0.01	110	0.18	1.1	1.39
PYAG-12-07				10.16	10.92	0.76	Black	Silt + clay	No			L828221	<0.01	70.5	0.2	0.93	1.17
PYAG-12-07				10.92	11.68	0.76	Black	Silt + clay	No			L828222	<0.01	76.3	0.17	0.98	1.13
PYAG-12-07				11.68	12.45	0.76	Black	Silt + clay	No			L828223	<0.01	64.5	0.19	1.17	1.24
PYAG-12-07				12.45	13.21	0.76	Black	Silt + clay	No			L828224	<0.01	44.5	0.18	1.08	1.19
PYAG-12-08	609238	7115191	1078	0.00	0.51	0.51	Grey/Brown	Silt + clay	Yes		Till - oxi	L828225	<0.01	885	0.12	0.84	1.89
PYAG-12-08	609238	7115191	1078	0.51	1.27	0.76	Grey/Brown	Silt + clay	Yes		Till	L828226	<0.01	683	0.5	0.86	5.58
PYAG-12-08	609238	7115191	1078	1.27	2.03	0.76	Grey/Brown	Silt + clay	semi		Till	L828227	<0.01	846	0.65	0.95	4.01
PYAG-12-08	609238	7115191	1078	2.03	2.79	0.30	Black/dark gre	Silt	no		Till - darker material, lots of gravel	L828228	<0.01	866	26.3	13.5	13.85
PYAG-12-08	609238	7115191	1078	2.79	3.56	0.76	Black/dark gre	Silt	No		Till - darker material, lots of gravel	L828229	<0.01	736	28.5	13.45	14.7

PYAG-12-09	609286	7115196	1081	0.00	0.66	0.66	Brown	Silt + clay	Yes		Till	L828230	<0.01	25.6	0.14	0.89	0.63
PYAG-12-09	609286	7115196	1081	0.66	1.42	0.76	Grey	Silt + clay	Yes		Till - more clay rich	L828231	<0.01	46.6	0.13	0.91	0.6
PYAG-12-09	609286	7115196	1081	1.42	2.18	0.76	Grey	Silt + clay	semi		Till - clay rich	L828232	<0.01	67.3	0.17	0.89	0.62
PYAG-12-09	609286	7115196	1081	2.18	2.95	0.30	Grey	Silt + clay	no			L828233	0.03	1785	3.79	1.43	7.91
PYAG-12-09	609286	7115196	1081	2.95	3.71	0.76	Grey	Silt + clay	No	real?	Very smal red fleck visible, hole making water	L828234	<0.01	536	2.65	1.09	7.05
PYAG-12-09	609286	7115196	1081	3.71	4.47	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828235	<0.01	653	3.09	1.21	7.81
PYAG-12-09	609286	7115196	1081	4.47	5.23	0.76	Grey	Silt + clay	No		F grained dissem py throughout.	L828236	<0.01	398	2.11	0.97	5.69
PYAG-12-09	609286	7115196	1081	5.23	5.99	0.76	Grey	Silt + clay	No		F grained dissem py throughout.	L828237	<0.01	185.5	0.93	1.18	3.03
PYAG-12-09	609286	7115196	1081	5.99	6.76	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828238	<0.01	261	1.85	1.05	5.95
PYAG-12-09	609286	7115196	1081	6.76	7.52	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828239	<0.01	96	0.41	1.01	2.03
PYAG-12-09	609286	7115196	1081	7.52	8.28	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828240	<0.01	90.5	0.35	1.26	2
PYAG-12-10	609333	7115193	1083	0.00	0.71	0.71	Brown	Silt + clay	Yes		Till	L828241	<0.01	22.7	0.14	0.86	0.64
PYAG-12-10	609333	7115193	1083	0.71	1.47	0.76	Brown	Silt + clay	Yes		Till - some green/orange weathering on soil	L828242	<0.01	17.1	0.13	0.89	0.6
PYAG-12-10	609333	7115193	1083	1.47	2.24	0.76	Brown	Silt + clay	no		Till - clay rich	L828243	<0.01	16.6	0.1	0.9	0.66
PYAG-12-10	609333	7115193	1083	2.24	3.00	0.76	Brown/grey	Silt + clay	no		Till - clay rich	L828244	<0.01	16.8	0.11	0.87	0.66
PYAG-12-10	609333	7115193	1083	3.00	3.76	0.76	Grey	Silt + clay	No			L828245	<0.01	13.9	0.08	0.76	0.59
PYAG-12-10	609333	7115193	1083	3.76	4.52	0.76	Grey	Silt + clay	No		Lots of cobbles	L828246	<0.01	14.2	0.11	0.73	0.6
PYAG-12-10	609333	7115193	1083	4.52	5.28	0.76	Grey	Silt + clay	No			L828247	<0.01	13.7	0.08	0.81	0.65
PYAG-12-10	609333	7115193	1083	5.28	6.05	0.76	Grey	Silt + clay	No			L828248	<0.01	13.4	0.09	0.81	0.63
PYAG-12-10	609333	7115193	1083	6.05	6.81	0.76	Grey	Silt + clay	No			L828249	0.02	24.7	0.09	0.82	0.65
PYAG-12-10	609333	7115193	1083	6.81	7.57	0.76	Grey	Silt + clay	No			L828250	<0.01	56.6	0.08	0.8	0.66
PYAG-12-10	609333	7115193	1083	7.57	8.33	0.76	Black/Grey	Silt	No		Crushed up bedrock?	L828251	<0.01	300	0.45	0.85	1.73
PYAG-12-10	609333	7115193	1083	8.33	9.09	0.76	Black/Grey	Silt	No		Crushed up bedrock?	L828252	<0.01	234	0.43	0.75	1.58
PYAG-12-10	609333	7115193	1083	9.09	9.86	0.76	Black/Grey	Silt	No		Crushed up bedrock?	L828253	<0.01	3400	0.86	1.18	3.06
PYAG-12-10	609333	7115193	1083	9.86	10.62	0.76	Black/Grey	Silt	No	Orp?	Possible orp on weakly reactive ls	L828254	<0.01	4220	0.92	1.17	3.34
PYAG-12-10	609333	7115193	1083	10.62	11.28	0.66	Black/Grey	Silt	No	py	F grained dissem py in some chips	L828255	<0.01	4430	0.74	1.07	2.44
PYAG-12-11	609396	7115196	1083	0.00	1.02	1.02	Brown	Silt + clay	Yes		Till	L828256	<0.01	22.2	0.11	0.98	0.69
PYAG-12-11	609396	7115196	1083	1.02	1.78	0.76	Brown	Silt + clay	Yes		Till	L828257	<0.01	23.8	0.1	0.93	0.73
PYAG-12-11	609396	7115196	1083	1.78	2.54	0.76	Brown	Silt + clay	Yes		Till	L828258	<0.01	19.8	0.1	0.91	0.65
PYAG-12-11	609396	7115196	1083	2.54	3.30	0.30	Brown/grey	Silt + clay	no		Till	L828259	<0.01	20.4	0.1	1.03	0.8
PYAG-12-11	609396	7115196	1083	3.30	4.06	0.76	Grey	Silt + clay	No		Till - clay rich	L828260	<0.01	16.8	0.11	0.92	0.75
PYAG-12-11	609396	7115196	1083	4.06	4.83	0.76	Grey	Silt + clay	No		Till - clay rich	L828261	<0.01	16.2	0.12	0.98	0.68
PYAG-12-11	609396	7115196	1083	4.83	5.59	0.76	Grey	Silt + clay	No		Grey clay	L828262	<0.01	15.4	0.13	0.89	0.65
PYAG-12-11	609396	7115196	1083	5.59	6.35	0.76	Grey	Silt + clay	No		Grey clay	L828263	<0.01	30.6	0.11	1.05	0.68
PYAG-12-11	609396	7115196	1083	6.35	7.11	0.76	Grey	Silt + clay	No		Grey clay	L828264	<0.01	18.4	0.09	0.89	0.66
PYAG-12-11	609396	7115196	1083	7.11	7.87	0.76	Grey	Silt + clay	No		More cobbles	L828265	<0.01	12.8	0.02	0.68	0.59
PYAG-12-11	609396	7115196	1083	7.87	8.64	0.76	Grey	Silt	No		Pulverised bedrock	L828266	<0.01	12.5	0.03	0.66	0.56

PYAG-12-12	609441	7115198	1079	0.00	1.02	1.02	Brown	Silt + clay	Yes		Till - some oxidized material	L828267	<0.01	26.3	0.12	0.96	0.7
PYAG-12-12	609441	7115198	1079	1.02	1.78	0.76	Brown	Silt + clay	Yes		Till - some oxidized material	L828268	<0.01	14.8	0.11	0.86	0.66
PYAG-12-12	609441	7115198	1079	1.78	2.54	0.76	Brown	Silt + clay	Yes		Till - some oxidized material	L828269	<0.01	14.3	0.1	0.89	0.65
PYAG-12-12	609441	7115198	1079	2.54	3.30	0.30	Brown/grey	Silt + clay	no		Till - more clay than above	L828270	<0.01	15.2	0.15	0.83	0.64
PYAG-12-12	609441	7115198	1079	3.30	4.06	0.76	Grey	Silt + clay	No		Till - more clay than above	L828271	<0.01	14.8	0.12	0.83	0.66
PYAG-12-12	609441	7115198	1079	4.06	4.83	0.76	Grey	Silt + clay	No		Till - more clay than above	L828272	<0.01	14.3	0.09	0.72	0.59
PYAG-12-12	609441	7115198	1079	4.83	5.59	0.76	Grey	Silt + clay	No		Large ls cobbles	L828273	<0.01	15.6	0.1	0.8	0.65
PYAG-12-12	609441	7115198	1079	5.59	6.35	0.76	Grey	Silt + clay	No		Large ls cobbles	L828274	<0.01	14.3	0.04	1.18	0.74
PYAG-12-12	609441	7115198	1079	6.35	7.11	0.76	Grey	Silt + clay	No			L828275	<0.01	12.6	0.03	0.89	0.74
PYAG-12-12	609441	7115198	1079	7.11	7.87	0.76	Grey	Silt + clay	No		Less clay	L828276	<0.01	9.4	0.01	0.54	0.75
PYAG-12-12	609441	7115198	1079	7.87	8.64	0.76	Grey	Silt + clay	No			L828277	<0.01	9.5	0.01	0.56	0.67
PYAG-12-12	609441	7115198	1079	8.64	9.40	0.76	Grey	Silt + clay	No		Pulverised bedrock, black/grey. Unreactive, soft (arg?)	L828278	<0.01	13.2	0.02	0.64	0.81
PYAG-12-12	609441	7115198	1079	9.40	10.16	0.76	Grey	Silt + clay	No		Pulverised bedrock, black/grey. Unreactive, soft (arg?)	L828279	<0.01	10.4	0.01	0.6	0.75
PYAG-12-13	609526	7115199	1073	0.00	0.61	0.61	Brown	Silt + clay	Yes		Till	L828280	<0.01	18.5	0.09	0.84	0.62
PYAG-12-13	609526	7115199	1073	0.61	1.37	0.76	Brown	Silt + clay	Yes		Till - clay rich	L828281	<0.01	19.9	0.04	0.94	1.04
PYAG-12-13	609526	7115199	1073	1.37	2.13	0.76	Brown	Silt + clay	Yes		Till - clay rich	L828282	<0.01	18.2	0.04	0.83	0.92
PYAG-12-13	609526	7115199	1073	2.13	2.90	0.76	Grey	Silt + clay	no		Till - clay rich	L828283	<0.01	12.9	0.03	0.82	0.84
PYAG-12-13	609526	7115199	1073	2.90	3.66	0.76	Grey	Silt + clay	No		Till - clay rich	L828284	<0.01	13.1	0.04	0.7	1
PYAG-12-13	609526	7115199	1073	3.66	4.42	0.76	Grey	Silt + clay	No		Till - clay rich	L828285	<0.01	14.2	0.03	0.87	1.07
PYAG-12-13	609526	7115199	1073	4.42	5.18	0.76	Grey	Silt + clay	No		Till - clay rich	L828286	<0.01	12.8	0.03	0.88	1.08
PYAG-12-14	608959	7115272	1091	0.00	0.76	0.76	Grey/Brown	Silt + clay	Yes		Till - ls chips and cobbles	L828287	<0.01	108	1.08	0.79	1.62
PYAG-12-14	608959	7115272	1091	0.76	1.52	0.76	Grey/Brown	Silt + clay	Yes		LS chips and cobbles	L828288	<0.01	262	2.07	1.37	4.04
PYAG-12-14	608959	7115272	1091	1.52	2.29	0.76	Grey/Brown	Silt + clay	Semi		LS chips and cobbles	L828289	<0.01	148	3.96	2.27	3.65
PYAG-12-14	608959	7115272	1091	2.29	3.05	0.76	Grey/Brown	Silt + clay	No		LS chips and cobbles	L828290	<0.01	151	3.17	2.46	3.21
PYAG-12-14	608959	7115272	1091	3.05	3.81	0.76	Grey/Brown	Silt + clay	No		LS chips and cobbles	L828291	<0.01	132	3.63	2.52	3.67
PYAG-12-15	609036	7115280	1088	0.00	0.91	0.91	Brown/black	Silt + clay	Yes		Brown materials as well as black clay w oxidation	L828292	<0.01	2490	21.5	15.55	67.6
PYAG-12-15	609036	7115280	1088	0.91	1.68	0.76	Brown	Silt + clay	Yes		Brown material, lots of oxi	L828293	<0.01	1910	0.87	1.86	23.2
PYAG-12-15	609036	7115280	1088	1.68	2.44	0.76	Brown/black	Silt + clay	Semi		Brown material with some black clay	L828294	<0.01	1370	0.71	1.53	25.3
PYAG-12-15	609036	7115280	1088	2.44	3.20	0.76	Brown	Silt + clay	No		brown material, oxi	L828295	<0.01	522	0.56	0.79	13.6
PYAG-12-15	609036	7115280	1088	3.20	3.96	0.76	Brown	Silt + clay	No		brown material, oxi	L828296	<0.01	263	0.08	0.5	9.08
PYAG-12-15	609036	7115280	1088	3.96	4.72	0.76	Brown	Silt + clay	No		brown material, oxi	L828297	<0.01	302	0.26	0.74	9.63
PYAG-12-15	609036	7115280	1088	4.72	5.49	0.76	Brown/grey	Silt + clay	No		brown material, slightly more clay rich	L828298	<0.01	298	0.17	0.7	8.83
PYAG-12-15	609036	7115280	1088	5.49	6.25	0.76	Brown/grey	Silt + clay	No		clay rich	L828299	<0.01	276	0.09	0.72	4.66
PYAG-12-15	609036	7115280	1088	6.25	7.01	0.76	Brown/grey	Silt + clay	No		clay rich	L828300	<0.01	295	0.07	0.72	5.07

PYAG-12-15	609036	7115280	1088	7.01	7.77	0.76	Brown	Silt + clay	No		clay rich	L828301	<0.01	338	0.06	0.84	3.15
PYAG-12-15	609036	7115280	1088	7.77	8.53	0.76	Brown	Silt + clay	No		clay rich	L828302	<0.01	270	0.06	0.74	3.3
PYAG-12-15	609036	7115280	1088	8.53	9.30	0.76	Brown	Silt + clay	No		grey, pulverised ls	L828303	<0.01	118.5	0.07	0.76	2.01
PYAG-12-15	609036	7115280	1088	9.30	10.06	0.76	Brown	Silt + clay	No		grey, pulverised ls	L828304	<0.01	193.5	0.15	0.7	2.89
PYAG-12-16	609128	7115286	1083	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828305	<0.01	1075	0.05	0.75	1.15
PYAG-12-16	609128	7115286	1083	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	L828306	<0.01	796	0.03	0.97	1.2
PYAG-12-16	609128	7115286	1083	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till	L828307	<0.01	1170	0.03	0.87	1.09
PYAG-12-16	609128	7115286	1083	2.29	3.05	0.76	Brown	Silt + clay	No		Till	L828308	<0.01	45.2	0.03	0.83	1.06
PYAG-12-16	609128	7115286	1083	3.05	3.81	0.76	Brown	Silt + clay	No		Less clay, more cobbles	L828309	<0.01	33.1	0.03	0.76	0.95
PYAG-12-16	609128	7115286	1083	3.81	4.57	0.76	Brown/grey	Silt	No			L828310	<0.01	39.9	0.04	0.74	0.98
PYAG-12-16	609128	7115286	1083	4.57	5.33	0.76	Grey	Silt	No		Likely pulverised bedrock (arg)	L828311	<0.01	40	0.03	0.69	1.02
PYAG-12-16	609128	7115286	1083	5.33	6.10	0.76	Grey	Silt	No		Pulverised bedrock	L828312	<0.01	32.4	0.03	0.63	1.08
PYAG-12-16	609128	7115286	1083	6.10	6.86	0.76	Grey	Silt	No		Pulverised bedrock	L828313	<0.01	26.7	0.03	0.67	1.07
PYAG-12-17	609190	7115270	1072	0.00	0.30	0.30	Brown	Silt + clay	Yes		Brown, clay rich	L828314	<0.01	1720	0.29	0.9	14.1
PYAG-12-17	609190	7115270	1072	0.30	1.07	0.76	Brown	Silt + clay	Yes		Brown, clay - wet	L828315	<0.01	1245	0.07	0.88	4.05
PYAG-12-17	609190	7115270	1072	1.07	1.83	0.76	Brown	Silt + clay	Semi		Brown, clay - wet	L828316	<0.01	1705	0.04	1	2.24
PYAG-12-17	609190	7115270	1072	1.83	2.59	0.76	Brown/grey	Silt + clay	No		More grey clay	L828317	<0.01	216	0.04	0.78	1.13
PYAG-12-17	609190	7115270	1072	2.59	3.35	0.76	Brown/grey	Silt + clay	No		More grey clay	L828318	<0.01	99.5	0.04	0.85	1.07
PYAG-12-17	609190	7115270	1072	3.35	4.11	0.76	Grey	Silt	No		Grey clay with ls chips	L828319	<0.01	60.6	0.04	0.76	1.02
PYAG-12-17	609190	7115270	1072	4.11	4.88	0.76	Grey	Silt	No		Grey clay with ls chips	L828320	<0.01	69.6	0.05	0.86	1.08
PYAG-12-17	609190	7115270	1072	4.88	5.64	0.76	Grey	Silt	No		Very wet, poor recovery	L828321	<0.01	147.5	0.05	0.67	1.02
PYAG-12-17	609190	7115270	1072	5.64	6.40	0.76	Grey	Silt	No		Very wet, poor recovery	L828322	<0.01	314	0.1	0.72	1.97
PYAG-12-18	609241	7155283	1074	0.00	0.30	0.30	Brown/black	Silt + clay	Yes		Somewhat organic	L828323	<0.01	352	0.05	0.6	0.6
PYAG-12-18	609241	7155283	1074	0.30	1.07	0.76	Dark grey	Silt + clay	Yes		Clay rich, green tint plus oxi on some material	L828324	<0.01	237	0.17	0.72	0.75
PYAG-12-18	609241	7155283	1074	1.07	1.83	0.76	dark grey	Silt + clay	Semi		Clay rich, green tint plus oxi on some material	L828325	<0.01	218	0.22	0.64	0.64
PYAG-12-18	609241	7155283	1074	1.83	2.59	0.76	Grey	Silt + clay	No		Clay rich, not as much oxi	L828326	<0.01	122.5	0.1	0.83	0.59
PYAG-12-18	609241	7155283	1074	2.59	3.35	0.76	Grey	Silt + clay	No		Clay rich, not as much oxi	L828327	<0.01	54.3	0.09	0.74	0.56
PYAG-12-18	609241	7155283	1074	3.35	4.11	0.76	Grey	Silt + clay	No		Clay rich, no oxi	L828328	<0.01	42.9	0.08	0.73	0.8
PYAG-12-18	609241	7155283	1074	4.11	4.88	0.76	Grey	Silt + clay	No		Less clay than 328 but still clay rich	L828329	<0.01	32.1	0.04	0.74	0.9
PYAG-12-18	609241	7155283	1074	4.88	5.64	0.76	Grey	Silt + clay	No		Less clay than 328 but still clay rich	L828330	<0.01	33.8	0.04	0.76	1
PYAG-12-18	609241	7155283	1074	5.64	6.40	0.76	Grey	Silt + clay	No		likely pulverised bedrock (arg)	L828331	<0.01	26.9	0.04	0.74	1.05
PYAG-12-18	609241	7155283	1074	6.40	7.16	0.76	Grey	Silt + clay	No		likely pulverised bedrock (arg)	L828332	<0.01	68.8	0.12	0.64	0.79
PYAG-12-18	609241	7155283	1074	7.16	7.92	0.76	Grey	Silt + clay	No		pulverised bedrock	L828333	<0.01	27.5	0.03	0.66	0.97
PYAG-12-19	609269	7115287	1067	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828334	<0.01	21.4	0.09	0.75	0.56
PYAG-12-19	609269	7115287	1067	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	L828335	<0.01	20.3	0.11	0.73	0.64
PYAG-12-19	609269	7115287	1067	1.52	2.29	0.76	Brown/grey	Silt + clay	Semi		Till + grey clay	L828336	<0.01	21.1	0.12	0.75	0.64
PYAG-12-19	609269	7115287	1067	2.29	3.05	0.76	Grey	Silt + clay	No		grey clay plus ls chips	L828337	<0.01	17.4	0.04	0.66	0.92

PYAG-12-19	609269	7115287	1067	3.05	3.81	0.76	Grey	Silt + clay	No		clay rich	L828338	<0.01	14.1	0.02	0.56	0.87
PYAG-12-19	609269	7115287	1067	3.81	4.57	0.76	Grey	Silt + clay	No		clay rich	L828339	<0.01	13.4	0.02	0.54	0.87
PYAG-12-19	609269	7115287	1067	4.57	5.33	0.76	Grey	Silt + clay	No		clay rich	L828340	<0.01	12	0.02	0.57	0.79
PYAG-12-19	609269	7115287	1067	5.33	6.10	0.76	Grey	Silt + clay	No		Pulverised bedrock	L828341	<0.01	11.9	0.02	0.57	0.81
PYAG-12-19	609269	7115287	1067	6.10	6.86	0.76	Grey	Silt + clay	No		Pulverised bedrock (arg)	L828342	<0.01	13.9	0.03	0.7	1.03
PYAG-12-19	609269	7115287	1067	6.86	7.62	0.76	Grey	Silt + clay	No		Pulverised bedrock (arg)	L828343	<0.01	14.2	0.03	0.68	1.02
PYAG-12-20	609337	7115277	1070	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828344	<0.01	15.7	0.1	0.66	0.51
PYAG-12-20	609337	7115277	1070	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	L828345	<0.01	15.4	0.1	0.8	0.59
PYAG-12-20	609337	7115277	1070	1.52	2.29	0.76	Brown/grey	Silt + clay	Semi		Till - some oxi	L828346	<0.01	15.6	0.08	0.83	0.57
PYAG-12-20	609337	7115277	1070	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till - oxi	L828347	<0.01	16.8	0.1	0.74	0.7
PYAG-12-20	609337	7115277	1070	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till - oxi	L828348	<0.01	16.3	0.1	0.75	0.76
PYAG-12-20	609337	7115277	1070	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Till	L828349	<0.01	19.3	<0.1	0.76	0.79
PYAG-12-20	609337	7115277	1070	4.57	5.33	0.76	Brown/grey	Silt + clay	No		Till - clay rich - still some oxi, mainly on cobbles	L828350	<0.01	14.6	<0.1	0.71	0.79
PYAG-12-20	609337	7115277	1070	5.33	6.10	0.76	Brown/grey	Silt + clay	No		Till - clay rich - still some oxi, mainly on cobbles	L828351	<0.01	13.7	0.06	0.73	0.8
PYAG-12-20	609337	7115277	1070	6.10	6.86	0.76	Brown/grey	Silt + clay	No		Till - clay rich - still some oxi, some ls chils with green tint	L828352	<0.01	16.3	0.07	0.7	0.69
PYAG-12-20	609337	7115277	1070	6.86	7.62	0.76	Grey	Silt + clay	No		Till - clay rich - still some oxi, some ls chils with green tint	L828353	<0.01	17.4	0.1	0.76	0.68
PYAG-12-20	609337	7115277	1070	7.62	7.82	0.20	Grey	Silt + clay	No		Hit bedrock, weakly reactive ls + chips pf red mineral, doesn't look like orp (likely just a flake of oxidized material)	L828354	<0.01	16	0.07	0.73	0.66
PYAG-12-21	609388	7115282	1073	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	L828355	<0.01	14.7	0.08	0.73	0.53
PYAG-12-21	609388	7115282	1073	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till - clay rich	L828356	<0.01	15.3	0.1	0.71	0.71
PYAG-12-21	609388	7115282	1073	1.68	2.44	0.76	Brown/grey	Silt + clay	Semi		Till - clay rich, some grey clay	L828357	<0.01	15.1	0.06	0.77	0.78
PYAG-12-21	609388	7115282	1073	2.44	3.20	0.76	Grey	Silt + clay	No		Till - clay rich, some grey clay	L828358	<0.01	14.7	0.07	0.72	0.64
PYAG-12-21	609388	7115282	1073	3.20	3.96	0.76	Grey	Silt + clay	No		Till - clay rich, some grey clay	L828359	<0.01	13.9	0.06	0.65	0.67
PYAG-12-21	609388	7115282	1073	3.96	4.72	0.76	Grey	Silt + clay	No		Grey clay and minor till	L828360	<0.01	14.7	0.05	0.54	0.72
PYAG-12-21	609388	7115282	1073	4.72	5.49	0.76	Grey	Silt + clay	No		Grey clay	L828361	<0.01	14.9	0.05	0.59	0.77
PYAG-12-21	609388	7115282	1073	5.49	5.74	0.25	Grey	Silt + clay	No		Bedrock, ls	L828362	<0.01	11.9	0.11	0.51	0.55
PYAG-12-22	609431	7115282	1071	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	L828363	<0.01	15.1	0.09	0.73	0.73
PYAG-12-22	609431	7115282	1071	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	L828364	<0.01	12.1	<0.1	0.64	0.69
PYAG-12-22	609431	7115282	1071	1.68	2.44	0.76	Brown/grey	Silt + clay	Semi		Till - grey clay	L828365	<0.01	17.3	0.1	0.74	0.71
PYAG-12-22	609431	7115282	1071	2.44	3.20	0.76	Grey	Silt + clay	No		Till - grey clay	L828366	<0.01	18.9	0.09	0.65	0.63
PYAG-12-22	609431	7115282	1071	3.20	3.96	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828367	<0.01	15.5	0.09	0.6	0.6
PYAG-12-22	609431	7115282	1071	3.96	4.72	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828368	<0.01	18.6	0.04	0.45	0.78
PYAG-12-22	609431	7115282	1071	4.72	5.49	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828369	<0.01	17.4	<0.1	0.43	0.73
PYAG-12-22	609431	7115282	1071	5.49	6.25	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828370	<0.01	20.7	0.03	0.49	0.94
PYAG-12-22	609431	7115282	1071	6.25	7.01	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828371	<0.01	18	0.03	0.43	0.76
PYAG-12-22	609431	7115282	1071	7.01	7.77	0.76	Grey	Silt + clay	No		Pulverised bedrock	L828372	<0.01	18.6	0.02	0.41	0.81
PYAG-12-22	609431	7115282	1071	7.77	8.53	0.76	Grey	Silt + clay	No		Pulverised bedrock	L828373	<0.01	19.8	0.03	0.46	0.83



PYAG-12-23	609142	7115361	1069	0.00	0.97	0.97	Brown	Silt + clay	Yes		Till - some oxi	L828374	<0.01	31.2	0.05	0.68	0.93
PYAG-12-23	609142	7115361	1069	0.97	1.73	0.76	Brown	Silt + clay	Yes		Till - some oxi	L828375	<0.01	1090	<0.1	0.89	1
PYAG-12-23	609142	7115361	1069	1.73	2.49	0.76	Brown/grey	Silt + clay	Yes		Till with grey clay, some oxi	L828376	<0.01	138	0.03	0.76	0.98
PYAG-12-23	609142	7115361	1069	2.49	3.25	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828377	<0.01	34	0.02	0.58	0.97
PYAG-12-23	609142	7115361	1069	3.25	4.01	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828378	<0.01	23.6	<0.1	0.7	0.97
PYAG-12-23	609142	7115361	1069	4.01	4.78	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828379	<0.01	19.3	<0.1	0.69	1.13
PYAG-12-23	609142	7115361	1069	4.78	5.54	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828380	<0.01	19.8	0.1	0.64	1.04
PYAG-12-23	609142	7115361	1069	5.54	6.30	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828381	<0.01	18.6	0.03	0.62	1.01
PYAG-12-23	609142	7115361	1069	6.30	7.06	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets), likely pulverised bedrock	L828382	<0.01	21.8	0.03	0.7	1.04
PYAG-12-24	609195	7115354	1056	0.00	0.46	0.46	Brown	Silt + clay	Yes		Till, brown material with some oxi, including some green tint from chips of green ls	L828383	<0.01	51.1	0.06	0.72	1.25
PYAG-12-24	609195	7115354	1056	0.46	1.22	0.76	Brown	Silt + clay	Yes		Till, brown material with some oxi, including some green tint from chips of green ls	L828384	<0.01	189	0.08	1.09	0.71
PYAG-12-24	609195	7115354	1056	1.22	1.98	0.76	Brown/grey	Silt + clay	Yes		Till, grey clay	L828385	<0.01	487	0.11	1.17	0.68
PYAG-12-24	609195	7115354	1056	1.98	2.74	0.76	Grey	Silt + clay	No		Till, less grey clay	L828386	<0.01	517	0.09	0.68	0.4
PYAG-12-24	609195	7115354	1056	2.74	3.51	0.76	Grey	Silt + clay	No		Grey clay, lots of oxi	L828387	<0.01	652	0.06	0.74	0.38
PYAG-12-24	609195	7115354	1056	3.51	4.27	0.76	Grey	Silt + clay	No		Less clay, crushed bedrock? (arg + ca stringers)	L828388	<0.01	55.4	0.03	0.76	0.71
PYAG-12-24	609195	7115354	1056	4.27	5.03	0.76	Grey	Silt + clay	No		Crushed bedrock (arg + ca stringers)	L828389	<0.01	57.9	0.03	0.71	0.79
PYAG-12-24	609195	7115354	1056	5.03	5.79	0.76	Grey	Silt + clay	No		Crushed bedrock (arg + ca stringers)	L828390	<0.01	23	0.02	0.65	0.79
PYAG-12-24	609195	7115354	1056	5.79	6.55	0.76	Grey	Silt + clay	No		Crushed bedrock (arg + ca stringers)	L828391	<0.01	27.8	0.02	0.7	0.83
PYAG-12-25	609246	7115351	1062	0.00	0.76	0.76	Brown/grey	Silt + clay	Yes		Brown till, some oxi, some grey clay	L828392	<0.01	88.4	0.08	0.85	0.63
PYAG-12-25	609246	7115351	1062	0.76	1.52	0.76	Brown/grey	Silt + clay	Yes		Till, increased amount of grey clay	L828393	<0.01	40.4	0.08	0.86	0.61
PYAG-12-25	609246	7115351	1062	1.52	2.29	0.76	Grey	Silt + clay	Semi		Mostly grey clay, minor brown till	L828394	<0.01	43.1	0.05	0.67	0.62
PYAG-12-25	609246	7115351	1062	2.29	3.05	0.76	Grey	Silt + clay	No		Grey clay	L828395	<0.01	24.6	0.03	0.6	0.55
PYAG-12-25	609246	7115351	1062	3.05	3.81	0.76	Grey	Silt + clay	No		Wet grey clay (hole wet rest of the way)	L828396	<0.01	9.1	0.02	0.46	0.49

PYAG-12-25	609246	7115351	1062	3.81	4.57	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls	L828397	<0.01	13.4	0.02	0.54	0.64
PYAG-12-25	609246	7115351	1062	4.57	5.33	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls	L828398	<0.01	10.9	0.01	0.48	0.62
PYAG-12-25	609246	7115351	1062	5.33	6.10	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls	L828399	<0.01	9.4	0.01	0.41	0.56
PYAG-12-25	609246	7115351	1062	6.10	6.86	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls, low recovery	L828400	<0.01	68.8	0.05	0.58	0.57
PYAG-12-25	609246	7115351	1062	6.86	7.62	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls, low recovery	L828401	<0.01	44.9	0.05	0.53	0.55
PYAG-12-25	609246	7115351	1062	7.62	8.08	0.46	Grey	Silt + clay	No		Bedrock, very wet as well. Arg with ca	L828402	<0.01	13	0.02	0.61	0.74
PYAG-12-26	609283	7115366	1065	0.00	0.66	0.66	Brown	Silt + clay	Yes		Brown till with oxi	L828403	<0.01	13.7	0.08	0.74	0.53
PYAG-12-26	609283	7115366	1065	0.66	1.42	0.76	Brown	Silt + clay	Yes		Brown till with oxi	L828404	<0.01	15.4	0.07	0.79	0.71
PYAG-12-26	609283	7115366	1065	1.42	2.18	0.76	Brown	Silt + clay	Semi		Brown till with oxi	L828405	<0.01	14.1	0.08	0.8	0.66
PYAG-12-26	609283	7115366	1065	2.18	2.95	0.76	Brown/grey	Silt + clay	No		Grey clay	L828406	<0.01	11.1	0.07	0.66	0.67
PYAG-12-26	609283	7115366	1065	2.95	3.71	0.76	Brown/grey	Silt + clay	No		Increased amount of grey clay	L828407	<0.01	12.5	0.06	0.7	0.75
PYAG-12-26	609283	7115366	1065	3.71	4.47	0.76	Grey	Silt + clay	No		Less clay, some oxi	L828408	<0.01	15	0.1	0.84	0.68
PYAG-12-26	609283	7115366	1065	4.47	5.23	0.76	Grey	Silt + clay	No		Less clay, more oxi	L828409	<0.01	13.5	0.09	0.87	0.66
PYAG-12-26	609283	7115366	1065	5.23	5.99	0.76	Grey	Silt	No		Grey clay	L828410	<0.01	13.3	0.05	0.86	0.76
PYAG-12-26	609283	7115366	1065	5.99	6.76	0.76	Grey	Silt	No		Grey clay, crushed arg ?	L828411	<0.01	13.8	0.05	0.87	0.82
PYAG-12-26	609283	7115366	1065	6.76	7.52	0.76	Grey	Silt	No		Crushed arg with ca	L828412	<0.01	13.3	0.03	0.88	0.96
PYAG-12-26	609283	7115366	1065	7.52	8.28	0.76	Grey	Silt	No		Crushed arg with ca	L828413	<0.01	12.4	0.03	0.93	0.93
PYAG-12-27	609333	7115363	1061	0.00	0.51	0.51	Brown	Silt + clay	Yes		Brown till with oxi	L828414	<0.01	17.3	0.07	0.84	0.54
PYAG-12-27	609333	7115363	1061	0.51	1.27	0.76	Brown	Silt + clay	Yes		Brown till with oxi	L828415	<0.01	12.1	0.08	0.74	0.74
PYAG-12-27	609333	7115363	1061	1.27	2.03	0.76	Brown/grey	Silt + clay	Semi		Brown till with oxi, plus grey clay	L828416	<0.01	11.9	0.08	0.75	0.89
PYAG-12-27	609333	7115363	1061	2.03	2.79	0.76	Brown/grey	Silt + clay	No		Brown till with oxi, plus grey clay	L828417	<0.01	15.4	0.09	0.91	0.81
PYAG-12-27	609333	7115363	1061	2.79	3.56	0.76	Grey	Silt + clay	No		Grey clay, chips of arg with ca	L828418	<0.01	14	0.07	0.77	0.82
PYAG-12-27	609333	7115363	1061	3.56	4.32	0.76	Grey	Silt + clay	No		Grey clay, chips of arg with ca	L828419	<0.01	11.6	0.03	0.63	0.69
PYAG-12-27	609333	7115363	1061	4.32	5.08	0.76	Grey	Silt + clay	No		Grey clay, chips of arg with ca	L828420	<0.01	10.8	0.03	0.65	0.65
PYAG-12-27	609333	7115363	1061	5.08	5.84	0.76	Grey	Silt	No		Grey clay, chips of arg with ca. Likely bedrock	L828421	<0.01	8.5	0.02	0.51	0.91
PYAG-12-27	609333	7115363	1061	5.84	6.60	0.76	Grey	Silt	No		Grey clay, chips of arg with ca. Likely bedrock	L828422	<0.01	9.5	0.02	0.57	0.83
PYAG-12-27	609333	7115363	1061	6.60	7.37	0.76	Grey	Silt	No		Crushed arg with ca	L828423	<0.01	14.5	0.02	0.81	0.84
PYAG-12-27	609333	7115363	1061	7.37	8.13	0.76	Grey	Silt	No		Crushed arg with ca	L828424	<0.01	12.9	0.02	0.78	0.78
PYAG-12-28	609373	7115355	1061	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till, fairly clay rich	L828425	0.01	15.9	0.04	0.92	1.03
PYAG-12-28	609373	7115355	1061	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till, fairly clay rich	L828426	<0.01	18.7	0.04	1.03	1.02
PYAG-12-28	609373	7115355	1061	1.52	2.29	0.76	Brown/grey	Silt + clay	Semi		Mostly grey clay	L828427	<0.01	16.4	0.04	1.04	1.03
PYAG-12-28	609373	7115355	1061	2.29	3.05	0.76	Grey	Silt + clay	No		Mostly grey clay	L828428	<0.01	14.9	0.04	0.82	1
PYAG-12-28	609373	7115355	1061	3.05	3.81	0.76	Grey	Silt + clay	No		Mostly grey clay, crushed bedrock?	L828429	<0.01	11.6	0.04	0.67	0.86
PYAG-12-28	609373	7115355	1061	3.81	4.57	0.76	Grey	Silt + clay	No		Mostly grey clay, crushed bedrock?	L828430	<0.01	13.9	0.05	0.73	1.05

PYAG-12-28	609373	7115355	1061	4.57	5.33	0.76	Grey	Silt + clay	No		Crushed arg	L828431	<0.01	15.7	0.04	0.79	1.03
PYAG-12-28	609373	7115355	1061	5.33	6.10	0.76	Grey	Silt	No		Crushed arg	L828432	<0.01	13.7	0.03	0.7	1
PYAG-12-29	609431	7115351	1060	0.00	0.81	0.81	Brown	Silt + clay	Yes		Brown till	L828433	0.01	14	0.05	1.06	0.61
PYAG-12-29	609431	7115351	1060	0.81	1.57	0.76	Brown	Silt + clay	Yes		Brown till, some oxi	L828434	<0.01	8.1	0.03	0.65	0.72
PYAG-12-29	609431	7115351	1060	1.57	2.34	0.76	Brown	Silt + clay	Semi		Brown till, some oxi	L828435	<0.01	7.8	0.03	0.65	0.8
PYAG-12-29	609431	7115351	1060	2.34	3.10	0.76	Brown	Silt + clay	No		Brown till, some oxi	L828436	<0.01	7.6	0.02	0.56	0.6
PYAG-12-29	609431	7115351	1060	3.10	3.86	0.76	Brown	Silt + clay	No		Brown till, some oxi	L828437	<0.01	7.2	0.02	0.57	0.63
PYAG-12-29	609431	7115351	1060	3.86	4.62	0.76	Grey	Silt + clay	No		Grey material, some oxi	L828438	0.01	8.7	0.02	0.67	0.73
PYAG-12-29	609431	7115351	1060	4.62	5.38	0.76	Grey	Silt + clay	No		Grey material, minor oxi	L828439	<0.01	9.6	0.03	0.72	0.78
PYAG-12-29	609431	7115351	1060	5.38	6.15	0.76	Grey	Silt	No		Crushed arg	L828440	<0.01	9.5	0.03	0.74	0.73
PYAG-12-29	609431	7115351	1060	6.15	6.86	0.71	Grey	Silt	No		Crushed arg	L828441	<0.01	9.6	0.03	0.77	0.73
PYAG-12-30	609528	7115356	1058	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till, some oxi	L828442	<0.01	14.2	0.08	0.95	0.75
PYAG-12-30	609528	7115356	1058	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till, some oxi	L828443	<0.01	12.4	0.03	1.04	0.88
PYAG-12-30	609528	7115356	1058	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till, some oxi	L828444	<0.01	11.4	0.03	0.83	0.92
PYAG-12-30	609528	7115356	1058	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till, some oxi	L828445	<0.01	12.1	0.05	0.81	1.05
PYAG-12-30	609528	7115356	1058	3.05	3.81	0.76	Brown	Silt + clay	No		Brown till, less oxi	L828446	<0.01	13.9	0.02	0.82	0.8
PYAG-12-30	609528	7115356	1058	3.81	4.57	0.76	Brown	Silt + clay	No		Brown till, less oxi	L828447	<0.01	13	0.02	0.72	0.99
PYAG-12-30	609528	7115356	1058	4.57	5.33	0.76	Grey	Silt + clay	No		Crushed grey material, arg	L828448	<0.01	8.5	0.02	0.55	0.65
PYAG-12-30	609528	7115356	1058	5.33	6.10	0.76	Grey	Silt	No		Crushed arg	L828449	<0.01	9.6	0.02	0.61	0.7
PYAG-12-31	609034	7115450	1072	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828450	<0.01	140.5	0.26	0.89	0.66
											Brown till, increased amount of clay						
PYAG-12-31	609034	7115450	1072	0.76	1.52	0.76	Brown	Silt + clay	Yes			L828451	<0.01	87.6	1.63	0.76	0.57
PYAG-12-31	609034	7115450	1072	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till, some dark grey clay	L828452	<0.01	39.5	0.1	0.69	1.08
PYAG-12-31	609034	7115450	1072	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till, some dark grey clay	L828453	<0.01	31.8	0.07	0.77	1.31
PYAG-12-31	609034	7115450	1072	3.05	3.81	0.76	Brown	Silt + clay	No		Grey material, not as much clay	L828454	<0.01	28.1	0.04	0.6	0.99
PYAG-12-31	609034	7115450	1072	3.81	4.57	0.76	Brown	Silt + clay	No		Grey material, not as much clay	L828455	<0.01	32	0.05	0.7	1.05
PYAG-12-31	609034	7115450	1072	4.57	5.33	0.76	Grey	Silt + clay	No		Grey material (crushed bedrock?) with ca xtals	L828456	<0.01	46.4	0.08	1.03	1.21
PYAG-12-31	609034	7115450	1072	5.33	6.10	0.76	Grey	Silt + clay	No		Grey material (crushed bedrock?) with ca xtals	L828457	<0.01	53.8	0.09	1.17	1.49
PYAG-12-31	609034	7115450	1072	6.10	6.86	0.76	Grey	Silt + clay	No		Bedrock (crushed arg) less ca	L828458	<0.01	61.5	0.12	1.37	2.14
PYAG-12-31	609034	7115450	1072	6.86	7.62	0.76	Grey	Silt + clay	No		Bedrock (crushed arg) less ca	L828459	<0.01	62.9	0.12	1.48	2.21
PYAG-12-32	609133	7115437	1063	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828460	<0.01	2630	0.14	3.49	9.43
PYAG-12-32	609133	7115437	1063	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	L828461	<0.01	2590	0.1	3.57	5.93
PYAG-12-32	609133	7115437	1063	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till (wet)	L828462	<0.01	530	0.04	1.01	2.48
PYAG-12-32	609133	7115437	1063	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till (wet)	L828463	<0.01	222	0.02	0.65	1.93
PYAG-12-32	609133	7115437	1063	3.05	3.81	0.76	Grey	Silt + clay	No		light grey material (some oxi)	L828464	<0.01	260	0.01	0.6	1.74
PYAG-12-32	609133	7115437	1063	3.81	4.57	0.76	Grey	Silt + clay	No		light grey material (some oxi)	L828465	<0.01	110.5	0.01	0.49	1.25
PYAG-12-32	609133	7115437	1063	4.57	5.33	0.76	Grey	Silt + clay	No		light grey material (less oxi)	L828466	<0.01	141.5	0.02	0.49	1.17
PYAG-12-32	609133	7115437	1063	5.33	6.10	0.76	Grey	Silt + clay	No		light grey material (less oxi)	L828467	<0.01	138	0.01	0.54	1.39

PYAG-12-32	609133	7115437	1063	6.10	6.86	0.76	Grey	Silt + clay	No		No oxi, crushed arg	L828468	<0.01	13.6	<0.01	0.36	0.79
PYAG-12-32	609133	7115437	1063	6.86	7.62	0.76	Grey	Silt + clay	No		No oxi, crushed arg	L828469	<0.01	25.5	<0.01	0.41	0.68
PYAG-12-33	609178	7115441	1060	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828470	<0.01	1450	0.24	1.44	17.6
PYAG-12-33	609178	7115441	1060	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	L828471	<0.01	1355	0.21	1.4	15.35
PYAG-12-33	609178	7115441	1060	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till	L828472	<0.01	763	0.06	0.79	3.11
PYAG-12-33	609178	7115441	1060	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Brown till	L828473	<0.01	668	0.05	0.79	3.55
PYAG-12-33	609178	7115441	1060	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till	L828474	<0.01	448	0.03	0.69	2.68
PYAG-12-33	609178	7115441	1060	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Till	L828475	<0.01	239	<0.01	0.62	1.18
PYAG-12-33	609178	7115441	1060	4.57	5.33	0.76	Brown/grey	Silt + clay	No		More clay rich, wet	L828476	<0.01	287	0.01	0.7	1.43
PYAG-12-33	609178	7115441	1060	5.33	6.10	0.76	Brown/grey	Silt + clay	No		More clay rich, wet	L828477	<0.01	314	0.02	0.7	1.54
PYAG-12-33	609178	7115441	1060	6.10	6.86	0.76	Brown/grey	Silt + clay	No		Grey clay (crushed arg)	L828478	<0.01	36.6	<0.01	0.65	0.84
PYAG-12-33	609178	7115441	1060	6.86	7.62	0.76	Grey	Silt + clay	No		Grey clay (crushed arg)	L828479	<0.01	143.5	0.02	0.62	1.58
											Crushed bedrock, grey and maroon arg						
PYAG-12-33	609178	7115441	1060	7.62	8.38	0.76	Grey/maroon	Silt + clay	No		Crushed bedrock, grey and maroon arg	L828480	<0.01	65.6	0.01	0.61	1.13
PYAG-12-33	609178	7115441	1060	8.38	9.14	0.76	Grey/maroon	Silt + clay	No		Crushed bedrock, grey and maroon arg	L828481	<0.01	79.1	0.01	0.62	1.32
PYAG-12-34	609233	7115443	1054	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828482	<0.01	1245	0.02	2.12	1.1
PYAG-12-34	609233	7115443	1054	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	L828483	<0.01	1295	0.02	2.31	1.17
PYAG-12-34	609233	7115443	1054	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till	L828484	<0.01	1005	<0.01	2.8	1.16
PYAG-12-34	609233	7115443	1054	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till	L828485	<0.01	772	0.02	2.82	0.99
PYAG-12-34	609233	7115443	1054	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till	L828486	<0.01	44	0.01	0.72	0.75
PYAG-12-34	609233	7115443	1054	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Till	L828487	<0.01	109	0.01	0.86	0.81
PYAG-12-34	609233	7115443	1054	4.57	5.33	0.76	Grey	Silt + clay	No		Clay rich	L828488	<0.01	41.4	<0.01	0.51	0.75
PYAG-12-34	609233	7115443	1054	5.33	6.10	0.76	Grey	Silt + clay	No		clay rich	L828489	<0.01	29.7	<0.01	0.55	0.7
PYAG-12-34	609233	7115443	1054	6.10	6.86	0.76	Grey	Silt + clay	No		Crushed arg, possible bedrock	L828490	<0.01	50.3	<0.01	0.59	0.77
PYAG-12-34	609233	7115443	1054	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	L828491	<0.01	47.8	<0.01	0.51	0.75
PYAG-12-34	609233	7115443	1054	7.62	8.38	0.76	Grey	Silt + clay	No		Crushed arg	L828492	<0.01	30.4	<0.01	0.51	0.76
PYAG-12-34	609233	7115443	1054	8.38	9.14	0.76	Grey	Silt + clay	No		Crushed arg	L828493	<0.01	42.8	<0.01	0.48	0.71
PYAG-12-35	609284	7115442	1052	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828494	<0.01	15.9	0.08	0.69	0.53
PYAG-12-35	609284	7115442	1052	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till (wet)	L828495	<0.01	15	0.08	0.68	0.55
PYAG-12-35	609284	7115442	1052	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till	L828496	<0.01	86.9	0.07	0.76	0.72
PYAG-12-35	609284	7115442	1052	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till - grey clay	L828497	<0.01	22.4	0.06	0.71	0.77
PYAG-12-35	609284	7115442	1052	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Grey clay	L828498	<0.01	19.7	0.04	0.56	0.6
PYAG-12-35	609284	7115442	1052	3.81	4.57	0.76	Grey	Silt + clay	No		Grey clay	L828499	<0.01	20.3	0.04	0.62	0.68
PYAG-12-35	609284	7115442	1052	4.57	5.33	0.76	Grey	Silt + clay	No		Grey clay	L828500	<0.01	28.6	0.02	0.41	0.71
PYAG-12-35	609284	7115442	1052	5.33	6.10	0.76	Grey	Silt + clay	No		Grey clay	J999800	<0.01	28.4	0.02	0.43	0.73
PYAG-12-35	609284	7115442	1052	6.10	6.86	0.76	Grey	Silt + clay	No		Crushed arg	J999801	<0.01	27	0.02	0.5	0.81
PYAG-12-35	609284	7115442	1052	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	J999802	<0.01	25.5	0.02	0.49	0.66
PYAG-12-36	609331	7115442	1058	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	J999803	<0.01	6.1	0.01	0.28	0.61
PYAG-12-36	609331	7115442	1058	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	J999804	<0.01	5.2	0.01	0.27	0.64
PYAG-12-36	609331	7115442	1058	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till	J999805	<0.01	4.9	0.01	0.27	0.6
PYAG-12-36	609331	7115442	1058	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till	J999806	<0.01	4.7	0.01	0.29	0.64

PYAG-12-36	609331	7115442	1058	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till	J999807	<0.01	3.9	0.01	0.34	0.65
PYAG-12-36	609331	7115442	1058	3.81	4.57	0.76	Grey	Silt + clay	No		Till	J999808	<0.01	4.1	0.01	0.3	0.65
PYAG-12-36	609331	7115442	1058	4.57	5.33	0.76	Grey	Silt + clay	No		Till	J999809	<0.01	4.6	0.01	0.3	0.64
PYAG-12-36	609331	7115442	1058	5.33	6.10	0.76	Grey	Silt + clay	No		Till	J999810	<0.01	5.8	0.01	0.29	0.65
PYAG-12-36	609331	7115442	1058	6.10	6.86	0.76	Grey	Silt + clay	No		Till	J999811	<0.01	5.9	0.01	0.3	0.64
PYAG-12-36	609331	7115442	1058	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	J999812	<0.01	5.1	<0.01	0.31	0.68
PYAG-12-36	609331	7115442	1058	7.62	8.38	0.76	Grey	Silt + clay	No		Crushed arg	J999813	<0.01	4.8	<0.01	0.31	0.66
PYAG-12-36	609331	7115442	1058	8.38	9.14	0.76	Grey	Silt + clay	No		Crushed arg	J999814	<0.01	6.9	0.01	0.46	0.7
PYAG-12-37	609144	7115514	1059	0.00	0.76	0.76	Brown/mar	Silt + clay	Yes		Maroon material, chips of arg	J999815	<0.01	439	0.1	1.41	1.06
PYAG-12-37	609144	7115514	1059	0.76	1.52	0.76	Mar	Silt + clay	Yes		Maroon material, chips of arg	J999816	<0.01	407	0.02	1.72	0.93
PYAG-12-37	609144	7115514	1059	1.52	2.29	0.76	Brown/mar	Silt + clay	Semi		Maroon material, chips of arg	J999817	<0.01	476	0.01	1.3	0.9
PYAG-12-37	609144	7115514	1059	2.29	3.05	0.76	Maroon	Silt + clay	No		Maroon material, chips of arg	J999818	<0.01	402	0.01	1.2	0.9
PYAG-12-37	609144	7115514	1059	3.05	3.81	0.76	Grey/mar	Silt + clay	No		Grey/green material in maroon arg	J999819	<0.01	222	0.01	0.95	0.79
PYAG-12-37	609144	7115514	1059	3.81	4.57	0.76	Grey/mar	Silt + clay	No		Grey/green material in maroon arg	J999820	<0.01	237	<0.01	0.99	0.82
PYAG-12-37	609144	7115514	1059	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon material, chips of arg	J999821	<0.01	126.5	0.02	1.85	0.97
PYAG-12-37	609144	7115514	1059	5.33	6.10	0.76	Grey	Silt + clay	No		Maroon material, chips of arg	J999822	<0.01	141.5	0.01	2.06	0.95
PYAG-12-37	609144	7115514	1059	6.10	6.86	0.76	Mar+grey	Silt + clay	No		Maroon + grey/green material (arg)	J999823	<0.01	19	0.03	2.07	0.97
PYAG-12-37	609144	7115514	1059	6.86	7.62	0.76	Mar+grey	Silt + clay	No		Maroon + grey/green material (arg)	J999824	<0.01	53	0.02	2.21	0.96
PYAG-12-37	609144	7115514	1059	7.62	8.38	0.76	Mar	Silt + clay	No		Crushed maroon arg	J999825	<0.01	38.1	0.01	1.72	0.9
PYAG-12-37	609144	7115514	1059	8.38	9.14	0.76	Mar	Silt + clay	No		Crushed maroon arg	J999826	<0.01	49.6	0.01	1.68	0.88
PYAG-12-38	609188	7115493	1050	0.00	0.76	0.76	Brown/mar	Silt + clay	Yes		Till, oxi	J999827	<0.01	2030	3.79	2.66	26.2
PYAG-12-38	609188	7115493	1050	0.76	1.52	0.76	Mar	Silt + clay	Yes		Till	J999828	<0.01	1675	0.34	1.92	38
PYAG-12-38	609188	7115493	1050	1.52	2.29	0.76	Brown/mar	Silt + clay	Semi		Till	J999829	<0.01	1765	0.26	2.01	26.5
PYAG-12-38	609188	7115493	1050	2.29	3.05	0.76	Maroon	Silt + clay	No		Till, maroon arg	J999830	<0.01	634	0.06	1.37	8.54
PYAG-12-38	609188	7115493	1050	3.05	3.81	0.76	Grey/mar	Silt + clay	No		Till, maroon arg	J999831	<0.01	534	0.07	1.32	4.43
PYAG-12-38	609188	7115493	1050	3.81	4.57	0.76	Grey/mar	Silt + clay	No		Maroon arg clay	J999832	<0.01	242	0.05	1.37	1.86
PYAG-12-38	609188	7115493	1050	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon arg clay	J999833	<0.01	332	0.04	1.23	1.71
PYAG-12-38	609188	7115493	1050	5.33	6.10	0.76	Grey	Silt + clay	No		Maroon arg clay + grey green arg	J999834	<0.01	133.5	0.09	0.92	2.27
PYAG-12-38	609188	7115493	1050	6.10	6.86	0.76	Mar+grey	Silt + clay	No		Maroon arg clay + grey green arg	J999835	<0.01	94.8	0.04	1.05	1.87
PYAG-12-38	609188	7115493	1050	6.86	7.62	0.76	Mar+grey	Silt + clay	No		Crushed arg (bedrock)	J999836	<0.01	66.9	0.02	1.4	1.47
PYAG-12-38	609188	7115493	1050	7.62	8.38	0.76	Mar	Silt + clay	No		Crushed arg (bedrock)	J999837	<0.01	81.5	0.02	1.36	1.6
PYAG-12-39	609264	7115519	1046	0.00	0.61	0.61	Brown/mar	Silt + clay	Yes		Brown till	J999838	<0.01	1120	0.3	1.3	19.7
PYAG-12-39	609264	7115519	1046	0.61	1.37	0.76	Mar	Silt + clay	Yes		Till	J999839	<0.01	412	0.02	0.75	2.32
PYAG-12-39	609264	7115519	1046	1.37	2.13	0.76	Brown/mar	Silt + clay	Semi		Till	J999840	<0.01	460	0.01	0.99	1.87
PYAG-12-39	609264	7115519	1046	2.13	2.90	0.76	Maroon	Silt + clay	No		Increased clay	J999841	<0.01	585	0.02	2.04	1.22
PYAG-12-39	609264	7115519	1046	2.90	3.66	0.76	Grey/mar	Silt + clay	No		Increased clay	J999842	<0.01	395	0.02	1.93	1.15
PYAG-12-39	609264	7115519	1046	3.66	4.42	0.76	Grey/mar	Silt + clay	No		Grey clay	J999843	<0.01	76.7	<0.1	2.27	0.95

PYAG-12-39	609264	7115519	1046	4.42	5.18	0.76	Mar	Silt + clay	No		Grey clay (wet)	J999844	<0.01	95	<0.1	1.76	1.02
PYAG-12-39	609264	7115519	1046	5.18	5.94	0.76	Grey	Silt + clay	No		Grey clay	J999845	<0.01	90.3	0.03	2.66	1.17
PYAG-12-39	609264	7115519	1046	5.94	6.71	0.76	Mar+grey	Silt + clay	No		Grey clay	J999846	<0.01	120	0.03	3.34	1.17
PYAG-12-39	609264	7115519	1046	6.71	7.47	0.76	Mar+grey	Silt + clay	No		Grey clay	J999847	<0.01	32.2	<0.1	1.4	0.97
PYAG-12-39	609264	7115519	1046	7.47	8.23	0.76	Mar	Silt + clay	No		Grey/green material (crushed arg?)	J999848	<0.01	21.7	0.01	0.92	0.99
PYAG-12-39	609264	7115519	1046	8.23	8.99	0.76	Mar	Silt + clay	No		Crushed arg	J999849	<0.01	13.2	0.01	0.98	0.95
PYAG-12-39	609264	7115519	1046	8.99	9.75	0.76	Mar	Silt + clay	No		Crushed arg	J999850	<0.01	20.8	0.01	0.97	0.94
PYAG-12-40	609284	7115516	1046	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till, some oxi on clasts	J999851	<0.01	409	0.5	0.84	1.27
PYAG-12-40	609284	7115516	1046	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till, some oxi on clasts	J999852	<0.01	467	0.31	0.77	1.24
											Till, some oxi on clasts. Wet down the hole						
PYAG-12-40	609284	7115516	1046	1.52	2.29	0.76	Brown	Silt + clay	Semi			J999853	<0.01	469	0.07	1.08	0.79
PYAG-12-40	609284	7115516	1046	2.29	3.05	0.76	Brown	Silt + clay	No		Till, less oxi	J999854	<0.01	331	0.03	1.55	1
PYAG-12-40	609284	7115516	1046	3.05	3.81	0.76	Mar	Silt + clay	No		Maroon clay	J999855	<0.01	38.4	<0.1	1.1	1.09
PYAG-12-40	609284	7115516	1046	3.81	4.57	0.76	Mar	Silt + clay	No		Maroon clay	J999856	<0.01	80.4	<0.1	1.04	1.06
											Maroon clay plus minor grey/green clay						
PYAG-12-40	609284	7115516	1046	4.57	5.33	0.76	Mar	Silt + clay	No			J999857	<0.01	41.5	0.01	0.98	0.99
PYAG-12-40	609284	7115516	1046	5.33	6.10	0.76	Mar	Silt + clay	No		maroon clay	J999858	<0.01	41.4	<0.1	0.91	0.99
											Grey/green maroon clay, crushed arg?						
PYAG-12-40	609284	7115516	1046	6.10	6.86	0.76	Grey/green	Silt + clay	No			J999859	<0.01	30.3	<0.1	1.45	0.92
											Grey/green maroon clay, crushed arg						
PYAG-12-40	609284	7115516	1046	6.86	7.62	0.76	Grey/green	Silt + clay	No			J999860	<0.01	42.1	0.1	2.39	0.96
											Grey/green maroon clay, crushed arg						
PYAG-12-40	609284	7115516	1046	7.62	8.38	0.76	Grey/green	Silt + clay	No			J999861	<0.01	39.2	0.02	0.7	0.99
											Grey/green maroon clay, crushed arg						
PYAG-12-40	609284	7115516	1046	8.38	9.14	0.76	Grey/green	Silt + clay	No			J999862	<0.01	22.7	0.01	0.46	1.1
PYAG-12-41	609334	7115515	1039	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	J999863	<0.01	7	0.03	0.41	0.62
PYAG-12-41	609334	7115515	1039	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	J999864	<0.01	9.3	0.04	0.46	0.74
PYAG-12-41	609334	7115515	1039	1.68	2.44	0.76	Brown	Silt + clay	No		Till - wet	J999865	<0.01	9.3	0.05	0.56	0.7
PYAG-12-41	609334	7115515	1039	2.44	3.20	0.76	Brown	Silt + clay	No		Till	J999866	<0.01	9.9	<0.1	0.43	0.8
PYAG-12-41	609334	7115515	1039	3.20	3.96	0.76	Brown/grey	Silt + clay	No		Till, more clay rich	J999867	<0.01	9.7	<0.1	0.39	0.88
PYAG-12-42	609335	7115523	1040	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	J999868	<0.01	9	<0.1	0.46	0.66
PYAG-12-42	609335	7115523	1040	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	J999869	<0.01	11.8	0.06	0.51	0.62
PYAG-12-42	609335	7115523	1040	1.68	2.44	0.76	Brown	Silt + clay	No		Till	J999870	<0.01	10.3	<0.1	0.53	0.69
PYAG-12-42	609335	7115523	1040	2.44	3.20	0.76	Brown	Silt + clay	No		Till - wet	J999871	<0.01	11.8	<0.1	0.67	0.97
PYAG-12-42	609335	7115523	1040	3.20	3.96	0.76	Brown/grey	Silt + clay	No		Till - clay rich	J999872	<0.01	10.9	0.07	0.74	1
											Crushed up grey arg with ca crystals						
PYAG-12-42	609335	7115523	1040	3.96	4.72	0.76	Brown/grey	Silt + clay	No			J999873	<0.01	10.2	0.05	0.88	0.97
											Crushed up grey arg with ca crystals						
PYAG-12-42	609335	7115523	1040	4.72	5.49	0.76	Brown/grey	Silt + clay	No			J999874	<0.01	7.3	0.04	0.6	0.92
											Crushed up grey arg with ca crystals, bedrock?						
PYAG-12-42	609335	7115523	1040	5.49	6.25	0.76	Brown/grey	Silt + clay	No			J999875	<0.01	7.5	0.04	0.56	0.9

PYAG-12-42	609335	7115523	1040	6.25	7.01	0.76	Brown/grey	Silt + clay	No		Crushed up grey arg with ca crystals. Bedrock	J999876	<0.01	8.1	0.05	0.56	0.86
PYAG-12-42	609335	7115523	1040	7.01	7.77	0.76	Brown/grey	Silt + clay	No		Crushed grey arg. Bedrock	J999877	<0.01	9.7	0.05	0.68	0.8
PYAG-12-42	609335	7115523	1040	7.77	8.53	0.76	Brown/grey	Silt + clay	No		Crushed grey arg. Bedrock	J999878	<0.01	9.1	0.05	0.71	0.92
PYAG-12-43	609073	7115637	1046	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till, oxi	J999879	<0.01	52.4	0.16	0.87	0.9
PYAG-12-43	609073	7115637	1046	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till, oxi	J999880	<0.01	27.9	0.14	0.75	0.73
PYAG-12-43	609073	7115637	1046	1.52	2.29	0.76	Brown/grey	Silt + clay	No		Till, grey clay oxi	J999881	<0.01	26.6	0.18	0.89	0.72
PYAG-12-43	609073	7115637	1046	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till, grey clay oxi	J999882	<0.01	27.6	0.2	0.88	0.69
PYAG-12-43	609073	7115637	1046	3.05	3.81	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999883	<0.01	25.4	0.16	0.92	0.63
PYAG-12-43	609073	7115637	1046	3.81	4.57	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999884	<0.01	19.7	0.1	0.88	0.59
PYAG-12-43	609073	7115637	1046	4.57	5.33	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999885	<0.01	54.6	0.25	0.87	0.84
PYAG-12-43	609073	7115637	1046	5.33	6.10	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999886	<0.01	62.4	0.38	1.05	1.11
PYAG-12-43	609073	7115637	1046	6.10	6.86	0.76	Grey	clay	No		Mostly all grey clay, some till cobbles	J999887	<0.01	47.4	0.32	1.11	1.05
PYAG-12-43	609073	7115637	1046	6.86	7.62	0.76	Grey	clay	No		Mostly all grey clay, some till cobbles	J999888	<0.01	53.1	0.38	1.05	0.99
PYAG-12-43	609073	7115637	1046	7.62	8.38	0.76	Grey	clay	No		Mostly all grey clay, some till cobbles	J999889	<0.01	54	0.29	1.02	0.95
PYAG-12-43	609073	7115637	1046	8.38	9.14	0.76	Grey	Silt + clay	No		Slightly less clay rich	J999890	<0.01	56.8	0.23	1.04	0.96
PYAG-12-43	609073	7115637	1046	9.14	9.91	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999891	<0.01	58.2	0.19	0.86	0.91
PYAG-12-43	609073	7115637	1046	9.91	10.67	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999892	<0.01	51.7	0.17	0.7	0.83
PYAG-12-43	609073	7115637	1046	10.67	11.43	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999893	<0.01	44.8	0.18	0.77	0.82
PYAG-12-43	609073	7115637	1046	11.43	12.19	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999894	<0.01	49.3	0.81	0.76	0.75
PYAG-12-43	609073	7115637	1046	12.19	12.95	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999895	<0.01	42.7	0.15	0.68	0.73
PYAG-12-43	609073	7115637	1046	12.95	13.72	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999896	<0.01	43.4	0.17	0.69	0.78
PYAG-12-43	609073	7115637	1046	13.72	14.48	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999897	<0.01	35.7	0.94	0.7	0.59
PYAG-12-43	609073	7115637	1046	14.48	15.24	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999898	<0.01	35.2	0.15	0.61	0.55
PYAG-12-44	609135	7115595	1042	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till	J999899	<0.01	77.4	0.16	0.86	0.82
PYAG-12-44	609135	7115595	1042	0.91	1.68	0.76	Brown	Silt + clay	Yes		Brown till. Possible orp, but likely just oxi	J999900	<0.01	209	0.09	0.86	0.63
PYAG-12-44	609135	7115595	1042	1.68	2.44	0.76	Brown	Silt + clay	No		Brown till. Possible orp, but likely just oxi	J999901	<0.01	104.5	0.11	0.78	0.68
PYAG-12-44	609135	7115595	1042	2.44	3.20	0.76	Brown	Silt + clay	No		Brown till. Possible orp, but likely just oxi	J999902	<0.01	41.7	0.14	0.8	0.68
PYAG-12-44	609135	7115595	1042	3.20	3.96	0.76	Brown	Silt + clay	No		Brown till	J999903	<0.01	52.1	0.14	0.9	0.8
PYAG-12-44	609135	7115595	1042	3.96	4.72	0.76	Brown	Silt + clay	No		Brown till	J999904	<0.01	41	0.28	0.94	0.8
PYAG-12-44	609135	7115595	1042	4.72	5.49	0.76	Brown	Silt + clay	No		Brown till	J999905	<0.01	42	0.4	0.89	0.79
PYAG-12-44	609135	7115595	1042	5.49	6.25	0.76	brown/grey	Silt + clay	No		Till, clay rich	J999906	<0.01	125	2.37	0.76	0.85
PYAG-12-44	609135	7115595	1042	6.25	7.01	0.76	brown/grey	clay	No		Till, clay rich	J999907	<0.01	155	0.81	0.76	0.82
PYAG-12-44	609135	7115595	1042	7.01	7.77	0.76	Grey	clay	No		Mostly grey clay, some till	J999908	<0.01	58.1	0.45	1.06	0.85
PYAG-12-44	609135	7115595	1042	7.77	8.53	0.76	Grey	clay	No		Mostly grey clay, some till	J999909	<0.01	47.8	0.57	0.96	0.76
PYAG-12-44	609135	7115595	1042	8.53	9.30	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999910	<0.01	53.6	0.37	1.14	0.85

PYAG-12-44	609135	7115595	1042	9.30	10.06	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999911	<0.01	44.2	0.34	1.2	0.89
PYAG-12-44	609135	7115595	1042	10.06	10.82	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999912	<0.01	43	0.33	1.3	0.88
PYAG-12-44	609135	7115595	1042	10.82	11.58	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999913	0.02	42.5	0.25	1.12	0.97
PYAG-12-45	609199	7115582	1045	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till, organic	J999914	0.01	983	0.41	1.31	17.85
PYAG-12-45	609199	7115582	1045	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	J999915	<0.01	941	0.26	1.26	13.9
PYAG-12-45	609199	7115582	1045	1.52	2.29	0.76	Brown	Silt + clay	No		Brown till	J999916	<0.01	1180	0.15	1.25	4.07
PYAG-12-45	609199	7115582	1045	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till	J999917	<0.01	1260	0.09	1.15	2.17
PYAG-12-45	609199	7115582	1045	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999918	<0.01	462	0.12	0.72	1.71
PYAG-12-45	609199	7115582	1045	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999919	<0.01	115	0.06	0.5	1.25
PYAG-12-45	609199	7115582	1045	4.57	5.33	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999920	<0.01	105	0.06	0.44	1.17
PYAG-12-45	609199	7115582	1045	5.33	6.10	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999921	<0.01	139	0.06	0.44	1.29
PYAG-12-45	609199	7115582	1045	6.10	6.86	0.76	Grey	Silt + clay	No		Grey	J999922	<0.01	51.9	0.06	0.33	1.08
PYAG-12-45	609199	7115582	1045	6.86	7.62	0.76	Grey	Silt + clay	No		Grey	J999923	0.01	48.9	0.05	0.35	1.03
PYAG-12-45	609199	7115582	1045	7.62	8.38	0.76	Grey	Silt + clay	No		Grey	J999924	<0.01	285	0.06	0.56	2.26
PYAG-12-45	609199	7115582	1045	8.38	9.14	0.76	Grey	Silt + clay	No		Grey	J999925	<0.01	224	0.1	0.49	2.16
PYAG-12-46	609253	7115587	1035	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till, oxi	J999926	<0.01	1610	1.77	2.43	20.4
PYAG-12-46	609253	7115587	1035	0.91	1.68	0.76	Brown	Silt + clay	Yes		Brown till, oxi	J999927	<0.01	1930	0.75	1.97	27.2
PYAG-12-46	609253	7115587	1035	1.68	2.44	0.76	Brown	Silt + clay	No		Brown till, oxi	J999928	<0.01	2470	0.56	2.06	37.9
PYAG-12-46	609253	7115587	1035	2.44	3.20	0.76	Brown	Silt + clay	No		Less cobbles, fairly uniform brown material	J999929	<0.01	1510	0.11	1.27	8.9
PYAG-12-46	609253	7115587	1035	3.20	3.96	0.76	Brown	Silt + clay	No		Less cobbles, fairly uniform brown material	J999930	<0.01	1385	0.12	1.14	6.35
PYAG-12-46	609253	7115587	1035	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Brown, grey clay	J999931	0.01	1245	0.13	1.07	7.12
PYAG-12-46	609253	7115587	1035	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Brown, grey clay	J999932	<0.01	970	0.07	0.9	2.16
PYAG-12-46	609253	7115587	1035	5.49	6.25	0.76	Grey	Silt + clay	No		Grey clay	J999933	<0.01	267	0.16	1.36	2.05
PYAG-12-46	609253	7115587	1035	6.25	7.01	0.76	Grey	Silt + clay	No		Grey clay	J999934	<0.01	330	0.25	2.08	2.71
PYAG-12-46	609253	7115587	1035	7.01	7.77	0.76	Grey	Silt + clay	No		Dark grey clay, crushed arg	J999935	<0.01	236	0.23	2.61	2.04
PYAG-12-46	609253	7115587	1035	7.77	8.53	0.76	Grey	Silt + clay	No		Dark grey clay, crushed arg	J999936	<0.01	164	0.2	2.38	1.77
PYAG-12-46	609253	7115587	1035	8.53	9.14	0.61	Grey	Silt + clay	No		Dark grey clay, crushed arg	J999937	<0.01	46	0.05	0.98	0.96
PYAG-12-47	609297	7115581	1040	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till, lots of oxi	J999938	<0.01	848	0.69	1.02	2.19
PYAG-12-47	609297	7115581	1040	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till, lots of oxi	J999939	<0.01	697	0.77	0.98	4.5
PYAG-12-47	609297	7115581	1040	1.52	2.29	0.76	Brown	Silt + clay	No		Till, lots of oxi	J999940	<0.01	811	0.25	0.8	2.56
PYAG-12-47	609297	7115581	1040	2.29	3.05	0.76	Brown	Silt + clay	No		Till, lots of oxi	J999941	<0.01	898	0.14	1.01	1.82
PYAG-12-47	609297	7115581	1040	3.05	3.81	0.76	Brown	Silt + clay	No		Brown, fairly uniform material. Suspect orp, likely oxi	J999942	<0.01	533	0.26	1.84	1.15
PYAG-12-47	609297	7115581	1040	3.81	4.57	0.76	Brown	Silt + clay	No		Brown, fairly uniform material	J999943	<0.01	541	0.22	1.68	1.23
PYAG-12-47	609297	7115581	1040	4.57	5.33	0.76	Brown/grey	Silt + clay	No		Brow, uniform material. Wet	J999944	<0.01	622	0.35	2.27	1.32
PYAG-12-47	609297	7115581	1040	5.33	6.10	0.76	Grey	Silt + clay	No		Brown and grey clay	J999945	0.02	520	0.23	1.99	1.36
PYAG-12-47	609297	7115581	1040	6.10	6.86	0.76	Grey	Silt + clay	No		Grey clay (crushed arg?)	J999946	<0.01	219	0.08	0.74	0.99
PYAG-12-47	609297	7115581	1040	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	J999947	<0.01	162.5	0.05	0.85	1.06



PYAG-12-47	609297	7115581	1040	7.62	8.23	0.61	Grey	Silt + clay	No		Crushed arg	J999948	<0.01	86.2	0.04	0.58	0.99
PYAG-12-48	609338	7115575	1042	0.00	0.61	0.61	Brown	Silt + clay	Yes		Till, wet	K976401	<0.01	288	1.33	0.83	1.42
PYAG-12-48	609338	7115575	1042	0.61	1.37	0.76	Brown	Silt + clay	Yes		Till, wet	K976402	<0.01	416	1.25	0.81	1.41
PYAG-12-48	609338	7115575	1042	1.37	2.13	0.76	Brown/mar	Silt + clay	No		Till plus maroon clay	K976403	<0.01	164.5	0.14	1.03	1.18
PYAG-12-48	609338	7115575	1042	2.13	2.90	0.76	Mar	Silt + clay	No		Maroon clay	K976404	<0.01	109	0.07	1.18	1.36
PYAG-12-48	609338	7115575	1042	2.90	3.66	0.76	Mar	Silt + clay	No		Maroon clay	K976405	<0.01	18.3	<0.01	1.15	0.98
PYAG-12-48	609338	7115575	1042	3.66	4.42	0.76	Mar	Silt + clay	No		Crushed maroon arg, bedrock	K976406	<0.01	15.6	0.03	0.99	0.95
PYAG-12-48	609338	7115575	1042	4.42	5.18	0.76	Mar	Silt + clay	No		Crushed maroon arg, bedrock	K976407	<0.01	25.9	0.03	1.01	0.92
PYAG-12-49	609381	7115587	1040	0.00	0.76	0.76	Brown/grey	Silt + clay	Yes		Brown/grey till	K976408	<0.01	474	0.49	1.01	2.05
PYAG-12-49	609381	7115587	1040	0.76	1.52	0.76	Brown	Silt + clay	Yes		brown grey till plus oxi	K976409	<0.01	289	1.08	0.98	2.28
PYAG-12-49	609381	7115587	1040	1.52	2.29	0.76	Mar	Silt + clay	No		Maroon arg	K976410	<0.01	48.4	0.07	1.28	0.95
PYAG-12-49	609381	7115587	1040	2.29	3.05	0.76	Mar	Silt + clay	No		Maroon arg	K976411	<0.01	28.3	0.07	1.29	0.92
PYAG-12-49	609381	7115587	1040	3.05	3.81	0.76	Mar	Silt + clay	No		Maroon arg	K976412	<0.01	9.3	0.02	1.31	0.86
PYAG-12-49	609381	7115587	1040	3.81	4.57	0.76	Mar	Silt + clay	No		Maroon arg	K976413	<0.01	11.5	0.03	1.26	0.86
PYAG-12-49	609381	7115587	1040	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon arg - bedrock	K976414	<0.01	9.3	0.03	1.09	0.85
PYAG-12-49	609381	7115587	1040	5.33	6.10	0.76	Mar	Silt + clay	No		Maroon arg - bedrock	K976415	<0.01	8	0.04	1	0.78
PYAG-12-50	609079	7115128	1092	0.00	0.91	0.91	Grey	Silt + clay	Yes		Grey clay + till	K976416	<0.01	14.5	0.09	0.89	0.73
PYAG-12-50	609079	7115128	1092	0.91	1.68	0.76	Grey	Silt + clay	Yes		Grey clay + till	K976417	<0.01	15.9	0.02	0.75	0.93
PYAG-12-50	609079	7115128	1092	1.68	2.44	0.76	Grey	Silt + clay	No		Grey clay + till	K976418	<0.01	15.8	0.02	0.72	1.04
PYAG-12-50	609079	7115128	1092	2.44	3.20	0.76	Grey/brown	Silt + clay	No		Grey material, lots of angular chips of d. grey arg with orange oxi on surface	K976419	<0.01	15.6	0.03	0.65	1.06
PYAG-12-50	609079	7115128	1092	3.20	3.96	0.76	Grey/brown	Silt + clay	No		Grey material, lots of angular chips of d. grey arg with orange oxi on surface	K976420	<0.01	15.4	0.03	0.64	1.09
PYAG-12-50	609079	7115128	1092	3.96	4.72	0.76	Grey/brown	Silt + clay	No		Grey material, lots of angular chips of d. grey arg with orange oxi on surface	K976421	<0.01	15.3	0.03	0.61	0.81
PYAG-12-50	609079	7115128	1092	4.72	5.49	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976422	<0.01	15.5	0.03	0.61	0.9
PYAG-12-50	609079	7115128	1092	5.49	6.25	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976423	<0.01	15.1	0.02	0.67	1.01
PYAG-12-50	609079	7115128	1092	6.25	7.01	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976424	<0.01	15.1	0.02	0.67	0.91
PYAG-12-50	609079	7115128	1092	7.01	7.77	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976425	<0.01	15.4	0.03	0.71	0.95
PYAG-12-50	609079	7115128	1092	7.77	8.53	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976426	<0.01	15.6	0.03	0.68	1.11
PYAG-12-50	609079	7115128	1092	8.53	9.30	0.76	Grey/brown	Silt + clay	No		Crushed grey arg, bedrock	K976427	<0.01	14.7	0.02	0.74	0.96
PYAG-12-50	609079	7115128	1092	9.30	10.06	0.76	Grey/brown	Silt + clay	No		Crushed grey arg, bedrock	K976428	<0.01	13.9	0.02	0.68	0.96
PYAG-12-51	609100	7115073	1105	0.00	0.76	0.76	Grey/brown	Silt + clay	Yes		Till	K976429	<0.01	24	0.09	0.76	0.49
PYAG-12-51	609100	7115073	1105	0.76	1.52	0.76	Grey/brown	Silt + clay	Yes		Till	K976430	<0.01	19.1	0.06	0.79	0.63

PYAG-12-51	609100	7115073	1105	1.52	2.29	0.76	Grey/brown	Silt + clay	No		Till + grey clay	K976431	<0.01	22.5	0.18	0.84	0.72
PYAG-12-51	609100	7115073	1105	2.29	3.05	0.76	Grey/brown	Silt + clay	No		Till + grey clay	K976432	<0.01	30.1	0.18	0.83	0.79
PYAG-12-51	609100	7115073	1105	3.05	3.66	0.61	Grey/brown	Silt + clay	No		Till + grey clay	K976433	<0.01	12.1	0.04	0.75	0.63
PYAG-12-52	609102	7115068	1105	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	K976434	<0.01	17	0.07	0.81	0.74
PYAG-12-52	609102	7115068	1105	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	K976435	<0.01	27.8	0.15	0.95	0.65
PYAG-12-52	609102	7115068	1105	1.68	2.44	0.76	Brown	Silt + clay	No		Till	K976436	<0.01	19.9	0.06	0.84	0.74
PYAG-12-52	609102	7115068	1105	2.44	3.20	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976437	<0.01	23.6	1.45	0.79	0.74
PYAG-12-52	609102	7115068	1105	3.20	3.96	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976438	<0.01	27.6	0.18	0.85	0.71
PYAG-12-52	609102	7115068	1105	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976439	<0.01	14.3	0.05	0.68	0.72
PYAG-12-52	609102	7115068	1105	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976440	<0.01	14.7	0.04	0.87	0.7
											Mostly grey arg with oxi on surface + brown material						
PYAG-12-52	609102	7115068	1105	5.49	6.25	0.76	Brown/grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material	K976441	<0.01	11.4	0.02	0.74	0.75
											Mostly grey arg with oxi on surface + brown material						
PYAG-12-52	609102	7115068	1105	6.25	7.01	0.76	Brown/grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material	K976442	<0.01	11.3	0.02	0.76	0.72
											Mostly grey arg with oxi on surface + brown material. Increasing amount of chips						
PYAG-12-52	609102	7115068	1105	7.01	7.77	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Increasing amount of chips	K976443	<0.01	16.7	0.03	1.42	0.95
											Mostly grey arg with oxi on surface + brown material. Increasing amount of chips						
PYAG-12-52	609102	7115068	1105	7.77	8.53	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Increasing amount of chips	K976444	0.01	16.3	<0.1	1.26	0.96
											Mostly grey arg with oxi on surface + brown material. Bedrock						
PYAG-12-52	609102	7115068	1105	8.53	9.30	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Bedrock	K976445	0.01	16.1	<0.1	1.08	1.06
											Mostly grey arg with oxi on surface + brown material. Bedrock						
PYAG-12-52	609102	7115068	1105	9.30	10.06	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Bedrock	K976446	<0.01	16.3	<1	1.17	1
PYAG-12-53	609024	7115150	1104	0.00	0.91	0.91	Brown/grey	Silt + clay	Yes		Till + grey clay	K976447	<0.01	14.5	<0.1	0.71	0.96
PYAG-12-53	609024	7115150	1104	0.91	1.68	0.76	Brown/grey	Silt + clay	Yes		Till + grey clay	K976448	<0.01	14.5	0.02	0.69	0.99
PYAG-12-53	609024	7115150	1104	1.68	2.44	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976449	<0.01	13.9	<1	0.73	1.17
											Grey clay, lots of chips of dark grey arg						
PYAG-12-53	609024	7115150	1104	2.44	3.20	0.76	Brown/grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg	K976450	<0.01	17	<1	0.8	1.74
											Grey clay, lots of chips of dark grey arg. Larger cobbles						
PYAG-12-53	609024	7115150	1104	3.20	3.96	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Larger cobbles	K976451	0.02	19.5	1	0.87	1.99
											Grey clay, lots of chips of dark grey arg. Larger cobbles						
PYAG-12-53	609024	7115150	1104	3.96	4.72	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Larger cobbles	K976452	0.02	12.7	<1	0.7	1.39
											Grey clay, lots of chips of dark grey arg. Larger cobbles						
PYAG-12-53	609024	7115150	1104	4.72	5.49	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Larger cobbles	K976453	<0.01	12.5	<1	0.54	1.18
											Grey clay, lots of chips of dark grey arg. Possible bedrock						
PYAG-12-53	609024	7115150	1104	5.49	6.25	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Possible bedrock	K976454	<0.01	10.3	<1	0.5	0.79
											Grey clay, lots of chips of dark grey arg.						
PYAG-12-53	609024	7115150	1104	6.25	7.01	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976455	<0.01	8.4	<1	0.55	0.75
											Grey clay, lots of chips of dark grey arg.						
PYAG-12-53	609024	7115150	1104	7.01	7.77	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976456	0.01	10.4	0.02	0.73	1.28

PYAG-12-53	609024	7115150	1104	7.77	8.53	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976457	<0.01	11.6	0.03	0.97	1.61
PYAG-12-53	609024	7115150	1104	8.53	9.30	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976458	<0.01	8.4	0.02	0.75	1.21
PYAG-12-53	609024	7115150	1104	9.30	10.06	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976459	0.01	7.6	0.02	0.82	1.27
PYAG-12-53	609024	7115150	1104	10.06	10.82	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976460	<0.01	7.8	0.02	0.73	1.25
PYAG-12-53	609024	7115150	1104	10.82	11.58	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976461	<0.01	8.2	0.02	0.68	1.21
PYAG-12-53	609024	7115150	1104	11.58	12.34	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Less cobbles. Wet	K976462	<0.01	6.6	0.01	0.51	1.05
PYAG-12-53	609024	7115150	1104	12.34	13.11	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976463	<0.01	7.3	0.01	0.47	1.01
PYAG-12-53	609024	7115150	1104	13.11	13.87	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976464	<0.01	6.6	0.01	0.47	1.04
PYAG-12-53	609024	7115150	1104	13.87	14.63	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976465	<0.01	6.9	0.01	0.46	1
PYAG-12-53	609024	7115150	1104	14.63	15.39	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976466	<0.01	7.5	0.01	0.47	1.05
PYAG-12-53	609024	7115150	1104	15.39	16.15	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976467	<0.01	6.8	0.01	0.48	0.88
PYAG-12-53	609024	7115150	1104	16.15	16.92	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976468	0.01	7.5	0.01	0.41	1.08
PYAG-12-53	609024	7115150	1104	16.92	17.68	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976469	<0.01	7.3	0.01	0.44	1.07
PYAG-12-53	609024	7115150	1104	17.68	18.44	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976470	0.02	6.4	0.01	0.41	0.99
PYAG-12-53	609024	7115150	1104	18.44	19.20	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976471	<0.01	5.2	0.01	0.42	0.89
PYAG-12-54	609033	7115086	1111	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	K976472	<0.01	21.6	<0.1	0.78	0.56
PYAG-12-54	609033	7115086	1111	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	K976473	0.01	16.3	1.13	0.77	0.72
PYAG-12-54	609033	7115086	1111	1.68	2.44	0.76	Brown	Silt + clay	No		Till - some cobbles of angular grey arg	K976474	0.01	15.2	0.03	0.95	1.1
PYAG-12-54	609033	7115086	1111	2.44	3.20	0.76	Brown	Silt + clay	No		Till - some cobbles of angular grey arg	K976475	<0.01	14.2	0.02	0.9	1.14
PYAG-12-54	609033	7115086	1111	3.20	3.96	0.76	Brown	Silt + clay	No		Increasing amount of angular grey arg	K976476	<0.01	12.3	0.02	0.84	1.03
PYAG-12-54	609033	7115086	1111	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Increasing amount of angular grey arg	K976477	<0.01	13.8	0.03	0.92	1.04
PYAG-12-54	609033	7115086	1111	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Increasing amount of angular grey arg	K976478	<0.01	14.6	0.03	0.88	1.18
PYAG-12-54	609033	7115086	1111	5.49	6.25	0.76	Brown/grey	Silt + clay	No		Increasing amount of angular grey arg	K976479	<0.01	15.1	0.02	1.01	1.14
PYAG-12-54	609033	7115086	1111	6.25	7.01	0.76	Grey	Silt + clay	No		Mostly all d.grey arg	K976480	<0.01	14	0.03	0.93	1.28

PYAG-12-54	609033	7115086	1111	7.01	7.77	0.76	Grey	Silt + clay	No		Mostly all d.grey arg	K976481	<0.01	14.7	0.03	0.86	1.06
PYAG-12-54	609033	7115086	1111	7.77	8.53	0.76	Grey	Silt + clay	No		Mostly all d.grey arg. Bedrock?	K976482	<0.01	14.3	0.02	0.78	1.01
PYAG-12-54	609033	7115086	1111	8.53	9.30	0.76	Grey	Silt + clay	No		Mostly all d.grey arg. Bedrock	K976483	<0.01	15.3	0.03	0.87	1.09
PYAG-12-54	609033	7115086	1111	9.30	10.06	0.76	Grey	Silt + clay	No		Mostly all d.grey arg. Bedrock	K976484	<0.01	14.4	0.03	0.81	1.2
PYAG-12-55	609051	7115180	1097	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till. Some oxi	K976485	0.01	38.8	0.25	0.94	1.07
PYAG-12-55	609051	7115180	1097	0.91	1.68	0.76	Brown/grey	Silt + clay	Yes		Brown till + grey clay	K976486	<0.01	25.2	0.04	0.8	1.82
PYAG-12-55	609051	7115180	1097	1.68	2.44	0.76	Brown/grey	Silt + clay	No		Brown till + grey clay	K976487	0.01	48.9	0.1	0.65	1.73
PYAG-12-55	609051	7115180	1097	2.44	3.20	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg	K976488	<0.01	67.2	0.04	0.69	2.09
PYAG-12-55	609051	7115180	1097	3.20	3.96	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg	K976489	<0.01	113	0.04	0.76	1.85
PYAG-12-55	609051	7115180	1097	3.96	4.72	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg with ca veinlets	K976490	<0.01	135.5	0.03	0.83	1.88
PYAG-12-55	609051	7115180	1097	4.72	5.49	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg with ca veinlets	K976491	<0.01	162.5	0.02	0.73	1.63
PYAG-12-55	609051	7115180	1097	5.49	6.25	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976492	<0.01	871	2.57	1.43	8.88
PYAG-12-55	609051	7115180	1097	6.25	7.01	0.76	Black	Clay	No	Py, orp?	Black sooty material, f.grained py throughout. Possible flecks of orp	K976493	<0.01	681	1.25	1.11	7.7
PYAG-12-55	609051	7115180	1097	7.01	7.77	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976494	<0.01	354	0.42	1.15	2.9
PYAG-12-55	609051	7115180	1097	7.77	8.53	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976495	<0.01	344	0.54	1.37	3.45
PYAG-12-55	609051	7115180	1097	8.53	9.30	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976496	<0.01	195	0.32	1.02	2.12
PYAG-12-55	609051	7115180	1097	9.30	10.06	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976497	<0.01	182.5	0.3	1.28	2.09
PYAG-12-55	609051	7115180	1097	10.06	10.82	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976498	<0.01	211	0.45	1.05	1.99
PYAG-12-55	609051	7115180	1097	10.82	11.58	0.76	Black	Clay	No	Py, orp?	Black sooty material, f.grained py throughout. Possible flecks of orp	K976499	<0.01	199.5	0.29	0.99	1.78
PYAG-12-55	609051	7115180	1097	11.58	12.34	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976500	0.01	213	0.78	1.03	7.35
PYAG-12-55	609051	7115180	1097	12.34	13.11	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	I383801	<0.01	200	0.4	0.89	3.12
PYAG-12-55	609051	7115180	1097	13.11	13.87	0.76	Black	Clay	No	Py, orp?	Slightly lighter colour, chips of orange on them (orp or oxi?)	I383802	<0.01	1220	1.2	1.23	9.79
PYAG-12-55	609051	7115180	1097	13.87	14.63	0.76	Black	Clay	No	Py, orp?	Slightly lighter colour, chips of orange on them (orp or oxi?)	I383803	<0.01	893	1.92	1.2	6.73
PYAG-12-55	609051	7115180	1097	14.63	15.39	0.76	D. Grey	Clay	No		fairly uniform d. grey material. No mzn	I383804	<0.01	635	2.92	0.98	4.31
PYAG-12-55	609051	7115180	1097	15.39	16.15	0.76	D. Grey	Clay	No		fairly uniform d. grey material. No mzn	I383805	<0.01	277	2.39	0.82	2.89
											Ran another run but had no return (too wet/deep)						

PYAG-12-56	609101	7115173	1091	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till	1383806	0.01	117	8.13	0.44	0.64
PYAG-12-56	609101	7115173	1091	0.91	1.83	0.91	d. grey	Silt + clay	Yes		Gravel, crushed black rock	1383807	<0.01	31.8	13.9	0.25	0.83

**APPENDIX VII**  
**AUGER DRILLING - CERTIFICATES OF ANALYSIS**



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ATAC RESOURCES LTD.**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

Page: 1  
 Finalized Date: 10- MAY- 2012  
 Account: RCM

**CERTIFICATE WH12091792**

Project: Rackla Gold (Rackla)  
 P.O. No.:  
 This report is for 51 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30- APR- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JULIA LANE	ANDREW CARNE JOAN MARIACHER	MATT DUMALA
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**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828151		3.10	0.01	0.25	7.06	66.1	750	1.82	0.22	0.38	0.44	66.3	20.9	96	13.05	32.1
L828152		2.18	0.01	0.25	6.19	114.5	650	1.57	0.22	5.20	0.59	58.5	13.8	68	18.10	29.3
L828153		2.49	<0.01	0.34	7.77	2550	1250	2.06	0.24	1.16	7.10	81.9	21.3	99	18.35	36.2
L828154		2.83	<0.01	0.34	8.33	1950	1440	1.97	0.26	0.45	1.10	93.8	15.3	106	19.00	31.8
L828155		1.12	<0.01	0.33	7.72	2110	1330	1.97	0.23	0.30	2.08	96.6	22.6	105	18.50	36.6
L828156		1.27	<0.01	0.32	7.60	2140	1290	1.67	0.24	0.23	0.39	86.7	18.2	99	14.80	31.1
L828157		0.74	<0.01	0.47	7.64	1355	740	1.68	0.25	0.46	0.17	88.4	15.2	99	18.30	29.8
L828158		0.79	0.01	0.42	7.98	1160	730	1.94	0.25	0.40	0.25	94.2	14.8	110	19.05	30.5
L828159		0.45	<0.01	0.27	8.49	572	1110	2.37	0.27	0.42	0.15	95.4	15.6	109	22.7	31.6
L828160		0.65	<0.01	0.22	8.07	467	990	1.91	0.25	0.46	0.21	90.2	12.7	104	18.00	32.3
L828161		0.62	0.01	0.29	8.04	5170	1070	1.76	0.25	0.56	0.22	90.0	12.5	118	16.70	31.5
L828162		0.61	<0.01	0.26	8.22	5600	1050	1.95	0.25	0.54	0.24	89.9	12.2	103	16.85	35.1
L828163		0.75	<0.01	0.31	8.06	6910	960	1.87	0.28	0.56	0.45	89.5	13.0	102	16.40	36.7
L828164		0.86	<0.01	0.26	7.83	4570	1040	1.93	0.27	0.52	0.19	87.6	13.4	98	16.15	32.7
L828165		0.64	0.16	0.19	8.62	1145	380	1.80	0.26	0.52	0.24	70.3	17.2	100	17.10	34.9
L828166		0.83	0.03	0.17	8.33	1060	850	1.89	0.25	0.49	0.21	69.7	16.5	93	15.75	32.3
L828167		0.75	<0.01	0.19	8.24	864	400	2.00	0.25	0.49	0.18	82.0	14.7	104	28.3	35.0
L828168		0.36	<0.01	0.28	7.89	1620	750	1.53	0.26	0.32	0.12	78.4	10.6	110	15.80	35.7
L828169		0.62	<0.01	0.23	4.54	1600	800	0.88	0.13	12.00	0.41	41.0	7.6	50	9.51	20.1
L828170		0.81	<0.01	0.21	1.39	534	280	0.40	0.04	20.6	0.43	13.65	2.7	17	3.58	6.8
L828171		0.40	<0.01	0.16	8.04	20.6	750	1.96	0.25	0.60	0.33	76.3	16.2	89	10.20	31.7
L828172		0.61	<0.01	0.10	3.97	30	510	0.95	0.10	12.40	0.26	32.7	9.5	44	3.59	17.7
L828173		0.55	<0.01	0.07	1.18	25	150	0.37	0.03	21.7	0.36	9.80	2.9	14	1.23	6.7
L828174		0.40	<0.01	0.21	0.94	135	200	0.41	0.03	22.5	0.44	8.25	2.3	13	1.16	4.6
L828175		0.99	<0.01	3.66	7.71	31.0	760	1.91	0.25	0.60	0.24	75.0	15.8	88	9.08	29.5
L828176		0.62	<0.01	0.16	6.35	23.0	830	1.67	0.18	2.06	0.22	56.6	11.4	75	6.16	27.8
L828177		0.64	0.01	0.08	3.20	32	1860	0.78	0.09	15.40	0.15	27.4	6.0	32	3.01	18.9
L828178		0.52	<0.01	0.32	1.67	236	400	0.53	0.08	21.6	0.34	16.10	2.0	17	2.32	10.8
L828179		0.62	<0.01	0.37	1.52	279	360	0.51	0.07	21.7	0.39	14.90	1.9	16	1.97	12.1
L828180		0.34	<0.01	0.07	0.52	54	150	0.19	0.02	23.4	0.19	4.56	1.4	6	0.68	4.8
L828181		0.29	<0.01	0.18	7.57	21.6	760	2.28	0.25	0.35	0.35	79.6	27.4	88	9.18	41.1
L828182		0.52	<0.01	0.18	6.10	184.5	1610	1.74	0.23	0.33	0.47	72.8	18.4	83	9.02	51.6
L828183		0.56	<0.01	0.21	2.55	135.5	6540	0.81	0.10	0.15	0.23	33.7	4.5	57	3.71	16.8
L828184		0.46	<0.01	0.23	4.56	673	3780	0.97	0.35	0.12	0.08	77.7	1.1	317	7.16	6.3
L828185		0.44	<0.01	0.08	1.33	478	6730	0.31	0.08	0.08	0.07	20.7	1.0	89	2.23	5.8
L828186		0.42	<0.01	0.19	1.12	897	5370	0.29	0.06	0.10	0.22	18.25	1.0	66	2.04	8.6
L828187		0.59	<0.01	0.18	0.60	697	7510	0.14	0.03	0.07	0.19	10.10	0.7	46	1.47	5.5
L828188		0.38	<0.01	0.17	1.29	508	6040	0.30	0.05	0.15	0.19	17.35	2.3	56	2.27	9.2
L828189		0.61	<0.01	0.19	1.10	474	3450	0.21	0.04	0.10	0.16	15.40	2.1	46	1.92	8.4
L828190		0.76	<0.01	0.22	0.93	462	3730	0.19	0.04	0.08	0.15	14.00	1.5	45	1.78	7.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828151		4.62	15.85	0.17	2.2	0.82	0.060	1.64	33.1	64.0	0.85	1090	2.02	0.40	11.3	51.4
L828152		3.52	13.65	0.16	2.1	1.0	0.053	1.54	29.9	57.0	3.47	625	1.17	0.43	10.1	47.5
L828153		3.82	17.75	0.18	2.9	4.6	0.069	2.16	42.9	39.7	0.70	254	1.87	0.16	22.9	53.9
L828154		4.06	19.05	0.21	2.7	0.27	0.074	2.44	48.3	45.3	0.29	438	2.05	0.11	29.9	54.4
L828155		4.33	18.05	0.24	3.1	0.3	0.084	2.16	50.8	47.2	0.24	514	2.66	0.08	30.0	57.6
L828156		5.31	17.10	0.26	2.8	0.37	0.070	2.21	45.0	55.3	0.23	688	1.87	0.07	27.2	58.8
L828157		5.31	16.85	0.23	2.5	0.5	0.068	2.51	44.6	41.2	0.63	292	1.91	0.09	27.7	46.6
L828158		5.50	18.35	0.26	2.5	0.94	0.077	2.67	48.9	40.8	0.60	316	1.73	0.09	30.7	43.9
L828159		4.40	19.25	0.22	2.7	0.2	0.073	2.86	49.5	55.6	0.73	435	1.61	0.11	29.7	44.1
L828160		4.30	22.8	0.17	2.6	0.25	0.075	2.93	49.5	47.8	0.81	368	1.63	0.11	31.0	39.9
L828161		3.78	22.5	0.16	2.7	0.81	0.079	2.79	50.0	41.8	0.56	272	1.94	0.11	31.0	40.0
L828162		4.00	22.3	0.16	2.7	0.81	0.081	2.84	49.2	36.6	0.59	343	1.71	0.11	30.8	39.1
L828163		4.28	22.3	0.16	2.7	1.06	0.085	2.79	48.9	31.8	0.58	373	1.81	0.11	30.1	41.3
L828164		4.45	21.7	0.16	2.7	0.75	0.077	2.70	47.9	34.5	0.57	399	1.97	0.10	29.4	43.8
L828165		6.88	23.0	0.21	2.8	1.65	0.078	2.85	34.0	49.7	0.46	208	1.90	0.12	15.8	63.5
L828166		5.18	21.8	0.17	2.8	1.32	0.072	2.76	33.3	56.3	0.43	186	1.76	0.11	16.0	58.5
L828167		4.39	22.3	0.17	2.7	1.21	0.077	2.48	42.2	34.3	0.43	180	1.68	0.09	25.5	55.4
L828168		6.31	21.6	0.20	2.7	1.82	0.077	2.42	41.2	31.2	0.35	87	1.67	0.09	26.1	40.9
L828169		2.98	11.00	0.10	1.8	1.72	0.037	1.40	22.5	17.4	6.74	214	1.79	0.06	12.1	27.8
L828170		0.92	3.46	0.05	0.6	1.73	0.012	0.41	7.6	6.1	11.30	158	0.73	0.02	3.6	10.5
L828171		4.85	22.1	0.17	2.6	0.14	0.072	2.01	40.9	68.5	0.96	1190	1.31	0.49	12.8	47.2
L828172		2.46	9.42	0.06	1.4	0.38	0.030	1.04	17.9	29.8	6.59	590	1.49	0.24	6.0	35.1
L828173		0.69	2.97	0.05	0.4	0.51	0.010	0.33	5.5	9.4	10.85	145	0.44	0.07	2.0	10.2
L828174		0.62	2.41	0.07	0.4	2.35	0.008	0.27	4.7	6.9	11.25	134	0.89	0.05	1.8	9.4
L828175		4.98	21.0	0.14	2.7	0.25	0.073	1.91	39.8	68.1	0.99	779	1.29	0.51	12.7	44.4
L828176		4.17	16.50	0.13	2.2	0.15	0.057	1.66	30.9	56.1	1.14	659	1.30	0.28	9.3	45.7
L828177		1.93	7.96	0.05	1.2	0.28	0.028	0.87	15.1	25.7	7.66	276	0.86	0.16	5.2	21.7
L828178		0.80	4.04	0.05	0.7	3.38	0.014	0.54	9.2	9.7	10.85	77	1.15	0.04	3.6	10.7
L828179		0.79	3.56	0.06	0.6	3.6	0.012	0.44	8.6	9.3	10.75	78	1.11	0.03	3.2	11.6
L828180		0.28	1.35	0.19	0.2	0.6	0.006	0.14	2.7	4.0	11.45	66	0.32	0.03	1.0	4.8
L828181		5.16	21.0	0.16	2.6	0.12	0.073	1.89	42.1	72.7	1.02	1290	1.46	0.56	13.1	61.6
L828182		5.00	17.05	0.14	2.6	2.24	0.068	1.64	39.4	60.3	0.90	810	2.03	0.51	11.6	53.2
L828183		1.74	6.85	0.06	1.1	9.9	0.021	0.64	26.5	36.9	0.27	280	1.43	0.16	5.1	18.7
L828184		1.29	13.85	0.13	2.4	24.1	0.031	1.26	63.3	18.7	0.20	83	1.58	0.10	11.5	5.6
L828185		1.09	4.02	<0.05	0.6	7.86	0.013	0.36	22.3	7.8	0.09	105	3.40	0.05	2.8	5.2
L828186		1.12	3.42	<0.05	0.5	11.1	0.019	0.31	22.5	9.4	0.08	92	2.78	0.04	2.3	5.0
L828187		0.78	2.21	<0.05	0.2	10.6	0.013	0.18	13.7	6.9	0.04	63	2.36	0.04	1.3	3.8
L828188		1.03	3.84	<0.05	0.5	14.4	0.015	0.35	17.4	10.7	0.14	116	1.69	0.08	2.6	7.7
L828189		0.90	3.37	<0.05	0.5	14.3	0.011	0.29	15.2	8.4	0.14	115	1.29	0.07	2.2	6.8
L828190		0.72	2.98	<0.05	0.4	14.6	0.010	0.25	15.8	7.9	0.08	81	1.16	0.05	2.0	5.5

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
L828151		820	42.9	123.5	<0.002	0.03	1.45	15.1	2	2.2	88.4	0.73	0.06	9.4	0.418	1.19
L828152		790	28.6	112.0	<0.002	0.02	1.32	13.7	2	1.9	117.5	0.71	<0.05	8.7	0.332	1.75
L828153		1010	54.1	124.5	0.004	0.06	5.93	16.0	2	2.4	238	1.42	0.09	11.1	0.449	53.0
L828154		1300	22.6	137.5	0.004	0.03	1.86	15.3	2	2.7	236	1.74	0.11	11.4	0.493	7.34
L828155		1220	24.0	125.5	0.003	0.04	1.41	16.3	3	2.6	235	1.63	0.11	10.8	0.469	3.69
L828156		1320	33.6	114.0	0.003	0.07	1.30	14.5	3	2.3	220	1.59	0.09	11.2	0.455	3.39
L828157		1280	27.6	129.0	0.003	2.72	2.24	13.9	3	2.4	170.5	1.66	0.09	10.5	0.472	7.88
L828158		1270	18.6	144.5	0.003	2.97	1.58	14.4	3	2.6	180.0	1.67	0.12	10.7	0.497	8.69
L828159		1510	11.9	150.0	0.003	0.27	0.86	16.3	2	2.5	174.0	1.79	0.10	12.1	0.509	2.10
L828160		1410	19.3	138.0	0.003	0.33	0.78	14.1	2	2.4	150.5	1.62	0.08	11.7	0.476	1.92
L828161		1390	23.9	131.0	0.003	1.29	1.61	14.4	3	2.5	253	1.61	0.09	11.5	0.478	3.32
L828162		1380	22.1	131.0	0.002	1.07	1.48	15.2	4	2.4	244	1.63	0.09	11.7	0.489	2.87
L828163		1450	24.6	127.0	0.003	1.31	1.66	15.2	4	2.4	223	1.61	0.09	11.6	0.474	3.06
L828164		1430	20.0	124.5	0.003	1.29	1.37	15.1	4	2.3	182.0	1.56	0.09	11.3	0.464	3.21
L828165		1050	23.8	130.5	0.002	6.37	1.56	16.5	2	2.5	400	0.93	0.06	10.8	0.468	13.65
L828166		1070	20.0	123.0	<0.002	4.63	1.20	15.3	2	2.4	352	0.97	0.06	10.4	0.473	9.90
L828167		1270	15.1	117.0	0.003	3.46	1.01	14.3	2	2.5	409	1.35	0.08	10.7	0.467	10.90
L828168		1080	19.6	114.5	0.003	5.72	1.28	13.1	3	2.4	351	1.42	0.09	10.9	0.451	12.75
L828169		710	24.3	60.8	0.002	1.52	1.78	9.8	2	1.4	397	0.64	<0.05	6.1	0.239	8.40
L828170		240	24.2	17.9	0.002	0.27	1.64	5.8	1	0.5	288	0.19	<0.05	2.0	0.071	3.63
L828171		870	19.8	137.5	<0.002	0.05	0.84	17.4	2	2.4	104.5	0.80	0.06	11.2	0.419	0.90
L828172		470	13.6	56.7	<0.002	0.04	0.87	8.1	1	1.0	115.5	0.37	<0.05	5.1	0.205	0.53
L828173		150	10.8	17.9	<0.002	0.02	0.79	2.6	1	0.4	139.5	0.11	<0.05	1.6	0.059	0.37
L828174		100	27.4	13.7	<0.002	0.02	1.85	2.1	1	0.3	143.5	0.10	<0.05	1.4	0.050	0.86
L828175		870	21.0	124.0	<0.002	0.03	4.51	16.3	2	2.4	91.1	0.82	0.06	11.2	0.435	0.85
L828176		670	14.1	98.2	0.003	0.05	0.86	13.4	1	1.9	79.9	0.60	<0.05	8.6	0.335	0.69
L828177		320	8.5	48.3	0.006	0.07	0.60	6.8	1	0.9	133.5	0.32	<0.05	4.3	0.165	0.43
L828178		240	23.8	22.8	<0.002	0.02	2.55	2.6	1	0.5	388	0.20	<0.05	3.0	0.097	2.35
L828179		250	27.7	18.5	<0.002	0.01	2.88	2.5	1	0.5	384	0.18	<0.05	2.8	0.087	2.27
L828180		160	8.5	7.2	<0.002	0.02	0.82	1.2	1	0.2	202	0.05	<0.05	0.7	0.025	0.63
L828181		870	19.2	123.0	<0.002	0.03	0.93	18.4	2	2.4	86.4	0.84	0.07	11.1	0.457	0.81
L828182		850	19.8	94.3	<0.002	0.11	1.12	15.9	2	2.0	124.0	0.72	0.07	10.2	0.430	1.49
L828183		660	9.3	36.3	0.002	0.16	0.59	5.6	1	0.8	340	0.33	<0.05	4.6	0.195	1.77
L828184		1410	32.0	68.6	0.002	0.15	3.13	8.2	1	1.9	1020	0.60	0.18	10.2	0.351	12.40
L828185		430	6.5	19.4	0.002	0.18	0.84	2.3	1	0.6	303	0.15	0.05	2.7	0.095	3.92
L828186		490	5.8	16.0	0.003	0.19	0.85	2.0	1	0.5	383	0.12	0.05	2.3	0.081	6.25
L828187		290	4.1	8.5	0.002	0.25	0.64	1.2	2	0.3	255	0.07	<0.05	1.1	0.040	5.23
L828188		360	5.4	18.3	0.004	0.18	0.72	2.6	1	0.5	240	0.15	<0.05	2.2	0.090	3.60
L828189		270	4.3	15.4	0.004	0.10	0.65	2.3	1	0.4	181.5	0.13	<0.05	1.9	0.085	2.99
L828190		300	4.7	13.7	0.004	0.11	0.57	1.8	1	0.4	215	0.11	<0.05	1.7	0.065	3.30



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
	Analyte	U	V	W	Y	Zn	Zr	As
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
LOR		0.1	1	0.1	0.1	2	0.5	0.001
L828151		2.6	138	1.8	19.4	161	85.5	
L828152		2.7	119	1.3	20.2	219	79.5	
L828153		4.0	193	3.4	24.3	1380	111.5	
L828154		3.2	211	3.9	23.2	670	115.5	
L828155		3.6	194	3.1	26.7	690	126.0	
L828156		3.0	189	3.0	20.9	546	110.0	
L828157		2.8	199	2.9	20.7	139	95.1	
L828158		2.8	207	2.8	22.9	176	103.5	
L828159		2.9	213	2.5	22.0	217	97.1	
L828160		2.8	202	2.4	21.4	238	96.8	
L828161		2.9	205	2.2	21.0	151	97.8	
L828162		2.9	205	2.2	20.3	167	98.8	
L828163		2.9	198	2.3	20.6	348	97.9	
L828164		2.8	196	2.3	21.3	132	100.0	
L828165		3.3	171	2.3	20.4	204	101.0	
L828166		3.1	168	2.3	20.4	178	98.5	
L828167		3.6	198	3.1	20.9	185	97.1	
L828168		3.4	195	3.2	17.2	86	99.1	
L828169		4.0	97	3.1	11.8	225	62.1	
L828170		3.0	38	1.6	4.5	179	20.5	
L828171		2.9	149	1.4	19.2	128	91.5	
L828172		2.1	69	0.8	11.6	113	51.3	
L828173		1.5	22	0.4	3.7	55	15.8	
L828174		1.6	19	1.0	2.8	140	13.7	
L828175		2.9	146	1.4	19.0	133	96.9	
L828176		2.4	117	1.1	16.0	125	74.9	
L828177		1.6	56	0.6	8.3	70	41.6	
L828178		4.1	32	4.3	2.8	237	24.9	
L828179		4.3	30	4.5	2.9	285	22.3	
L828180		1.9	12	0.6	2.1	63	6.6	
L828181		3.0	153	1.4	23.3	170	92.9	
L828182		2.7	135	1.4	21.5	130	94.9	
L828183		2.2	57	1.6	10.5	44	38.4	
L828184		5.9	151	5.6	22.0	15	86.2	
L828185		2.0	42	1.3	5.6	9	22.5	
L828186		2.3	36	1.4	4.9	12	18.8	
L828187		1.7	22	0.8	2.5	9	8.7	
L828188		1.8	37	2.2	4.7	21	18.0	
L828189		1.5	34	2.3	4.3	17	16.2	
L828190		1.6	28	2.7	3.7	15	14.1	

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**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828191		0.58	<0.01	0.21	0.66	392	2590	0.15	0.03	0.07	0.13	11.15	1.1	39	1.41	7.0
L828192		0.53	0.01	0.20	0.87	776	3420	0.21	0.04	0.07	0.14	13.75	1.3	42	1.79	6.6
L828193		0.69	<0.01	0.20	0.67	609	3350	0.15	0.03	0.07	0.13	11.20	1.0	41	1.70	6.7
L828194		0.89	<0.01	0.19	0.67	895	6790	0.15	0.03	0.08	0.18	12.15	1.0	46	1.66	6.5
L828195		0.91	<0.01	0.19	0.39	792	6890	0.09	0.02	0.06	0.20	9.02	0.6	34	1.30	4.8
L828196		0.61	<0.01	0.23	0.51	788	3990	0.12	0.03	0.06	0.23	10.60	0.8	40	1.41	6.2
L828197		0.57	<0.01	0.22	0.49	621	4370	0.11	0.02	0.06	0.22	9.79	0.7	42	1.40	5.6
L828198		0.53	0.02	0.26	0.51	>10000	2240	0.17	0.03	0.03	1.49	14.00	0.5	51	1.49	5.2
L828199		0.77	0.03	0.25	0.52	>10000	2340	0.19	0.03	0.04	1.27	14.40	0.5	53	1.36	5.6
L828200		0.80	0.05	0.25	0.28	>10000	2020	0.09	0.01	0.03	0.79	7.99	0.4	32	0.92	10.0
L828201		0.68	0.04	0.20	0.27	>10000	1490	0.09	0.01	0.03	0.69	7.48	0.3	34	0.83	9.9

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
L828191		0.60	2.11	<0.05	0.3	15.9	0.007	0.18	14.1	6.7	0.05	64	0.93	0.03	1.5	4.1
L828192		0.71	2.72	<0.05	0.4	13.8	0.008	0.26	16.7	7.5	0.08	63	0.77	0.04	1.7	5.2
L828193		0.60	2.13	<0.05	0.3	19.1	0.006	0.18	14.5	5.8	0.05	61	0.96	0.03	1.4	4.0
L828194		0.65	2.05	<0.05	0.3	20.7	0.007	0.17	16.6	7.9	0.05	70	0.87	0.04	1.4	4.1
L828195		0.51	1.29	<0.05	0.2	27.3	<0.005	0.10	14.6	7.7	0.03	49	0.68	0.03	0.8	3.0
L828196		0.50	1.68	<0.05	0.2	30.3	0.005	0.14	15.0	5.8	0.04	52	0.55	0.03	1.2	3.6
L828197		0.51	1.60	<0.05	0.2	28.4	<0.005	0.13	14.3	5.9	0.04	55	0.97	0.03	1.1	3.4
L828198		0.44	1.68	<0.05	0.2	35.0	0.014	0.13	21.8	4.8	0.03	44	0.47	0.01	1.2	3.9
L828199		0.45	1.72	<0.05	0.2	28.5	0.016	0.13	23.3	5.1	0.03	47	0.52	0.02	1.0	3.9
L828200		0.38	1.07	<0.05	0.1	20.4	0.015	0.06	12.9	6.4	0.02	40	0.57	0.01	0.5	3.3
L828201		0.37	1.00	<0.05	0.1	28.7	0.018	0.06	12.6	6.3	0.01	38	0.53	0.01	0.4	3.5

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
L828191		250	4.2	9.4	0.005	0.08	0.51	1.2	1	0.3	174.5	0.08	<0.05	1.2	0.046	2.76
L828192		300	3.8	12.6	0.005	0.09	0.66	1.5	1	0.4	200	0.10	<0.05	1.7	0.056	5.90
L828193		250	3.3	9.5	0.006	0.09	0.63	1.2	1	0.3	179.5	0.08	<0.05	1.3	0.045	4.52
L828194		340	5.3	9.2	0.008	0.18	0.62	1.1	1	0.4	250	0.08	<0.05	1.3	0.044	5.23
L828195		270	5.0	5.4	0.010	0.18	0.54	0.6	1	0.2	214	0.05	<0.05	0.9	0.025	4.68
L828196		290	4.1	7.3	0.004	0.13	0.49	0.8	1	0.3	214	0.07	<0.05	1.2	0.035	3.17
L828197		270	3.9	7.0	0.005	0.13	0.47	0.7	1	0.3	205	0.07	<0.05	1.0	0.034	3.28
L828198		760	4.9	6.3	0.005	0.81	2.22	0.6	4	0.3	571	0.06	<0.05	1.2	0.030	5.31
L828199		860	4.2	6.3	0.005	0.79	1.91	0.6	5	0.2	637	0.06	<0.05	1.2	0.028	4.75
L828200		450	4.4	2.9	0.007	0.66	2.15	0.4	3	0.2	332	<0.05	<0.05	0.6	0.012	5.54
L828201		400	3.1	2.8	0.008	0.80	2.74	0.4	3	<0.2	301	<0.05	<0.05	0.6	0.012	6.59

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	As- OG62 As % 0.001
L828191		1.4	22	2.5	2.8	12	10.6	
L828192		1.6	26	2.2	3.0	15	12.9	
L828193		1.4	22	2.3	2.6	12	10.3	
L828194		1.7	23	2.5	2.8	12	10.2	
L828195		1.5	16	1.9	1.8	11	6.2	
L828196		1.7	20	3.0	2.4	10	8.6	
L828197		1.6	20	2.6	2.3	9	8.2	
L828198		2.9	27	1.6	4.9	26	8.2	1.275
L828199		3.1	27	1.6	5.6	20	7.4	1.315
L828200		2.4	17	1.2	3.9	45	3.6	0.957
L828201		2.4	18	1.0	4.0	93	3.6	1.285



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12100500**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D  
 This report is for 142 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

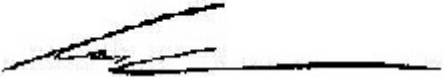
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828202		0.55	<0.01	0.16	5.61	115.0	670	1.43	0.21	0.24	0.23	52.5	18.8	70	6.76	48.8
L828203		0.54	<0.01	0.14	6.64	167.0	690	1.65	0.21	0.72	0.31	63.0	21.2	84	9.80	55.3
L828204		0.45	<0.01	0.08	3.74	281	2400	1.02	0.13	0.24	0.23	40.2	12.0	72	4.84	29.0
L828205		0.31	<0.01	0.17	3.77	97.5	2880	1.01	0.15	0.16	0.20	41.8	9.3	51	4.51	26.6
L828206		0.39	<0.01	0.09	3.05	117.0	3170	0.87	0.10	0.13	0.17	33.8	8.8	55	3.80	18.4
L828207		0.99	<0.01	0.06	1.38	385	5880	0.46	0.06	0.07	0.11	17.95	6.2	57	1.89	18.7
L828208		0.78	<0.01	0.12	7.07	17.8	720	1.91	0.24	0.37	0.23	74.0	18.9	84	6.76	31.1
L828209		0.55	<0.01	0.14	6.68	25.6	750	1.74	0.24	1.56	0.39	71.9	17.9	77	5.75	47.6
L828210		0.85	<0.01	0.12	6.32	22.0	680	1.59	0.21	2.03	0.30	65.3	16.5	81	4.83	44.0
L828211		0.78	<0.01	0.15	7.09	1685	790	1.76	0.24	2.20	0.45	77.4	17.9	80	8.17	50.1
L828212		1.26	<0.01	0.15	6.84	1185	660	1.56	0.22	3.40	0.38	70.1	18.6	84	6.72	54.1
L828213		0.47	<0.01	0.20	7.99	1505	1130	2.03	0.26	1.48	1.30	89.4	15.9	102	21.5	46.2
L828214		0.78	<0.01	0.20	8.32	746	1240	2.22	0.27	0.74	0.43	94.3	14.1	102	33.1	36.5
L828215		0.93	<0.01	0.22	8.47	241	1020	2.31	0.26	0.44	0.17	92.8	13.7	103	39.3	33.7
L828216		0.84	<0.01	0.21	8.58	442	1120	2.44	0.27	0.45	0.37	96.6	14.0	106	38.3	35.2
L828217		0.46	<0.01	0.21	8.55	169.0	1590	2.22	0.27	0.55	0.16	95.3	15.1	109	36.9	34.9
L828218		0.68	<0.01	0.23	8.57	189.5	1170	2.23	0.27	0.49	0.13	96.5	14.8	109	40.7	35.6
L828219		0.53	<0.01	0.21	8.67	81.1	1030	2.27	0.27	0.76	0.11	97.0	13.9	112	46.8	36.5
L828220		0.71	<0.01	0.21	8.67	110.0	1160	2.31	0.27	0.84	0.13	98.5	14.6	112	43.2	35.2
L828221		0.54	<0.01	0.20	8.60	70.5	2590	2.33	0.27	0.81	0.10	95.9	14.6	114	39.2	35.3
L828222		0.56	<0.01	0.19	8.45	76.3	2240	2.11	0.27	0.73	0.11	95.1	13.6	111	37.8	33.3
L828223		0.72	<0.01	0.20	8.65	64.5	1460	2.27	0.27	0.69	0.11	97.2	14.2	108	40.4	36.0
L828224		0.55	<0.01	0.22	8.89	44.5	1250	2.50	0.28	0.61	0.10	99.0	13.7	111	41.8	36.5
L828225		0.70	<0.01	0.19	7.12	885	880	1.77	0.22	0.61	0.41	72.1	17.6	87	8.23	39.6
L828226		1.02	<0.01	0.12	6.67	683	770	1.53	0.20	2.14	0.36	65.3	15.3	76	11.85	45.6
L828227		0.99	<0.01	0.16	7.22	846	940	1.80	0.23	2.15	0.37	73.3	17.3	84	11.35	51.0
L828228		0.65	<0.01	3.54	5.75	866	3000	1.66	0.22	2.23	3.81	44.2	2.2	184	22.7	38.0
L828229		0.89	<0.01	3.83	6.35	736	5150	1.68	0.25	2.97	1.64	46.4	1.9	218	21.8	29.6
L828230		0.92	<0.01	0.14	7.28	25.6	690	1.77	0.23	1.33	0.35	75.5	18.6	86	6.75	58.7
L828231		0.87	<0.01	0.16	6.86	46.6	1040	1.68	0.21	4.07	0.35	68.7	16.9	77	7.55	52.1
L828232		1.03	<0.01	0.18	6.82	67.3	820	1.70	0.24	3.59	0.37	71.4	18.8	77	7.41	54.3
L828233		1.16	0.03	0.49	7.21	1785	660	1.64	0.23	1.67	0.85	71.4	14.4	96	14.20	40.6
L828234		1.30	<0.01	0.17	8.54	536	410	2.21	0.27	0.72	0.28	84.3	18.7	99	22.2	41.6
L828235		1.08	<0.01	0.23	6.58	653	510	1.69	0.21	0.87	0.24	67.5	14.6	82	17.05	33.5
L828236		1.41	<0.01	0.22	6.35	398	390	1.89	0.21	0.64	0.19	72.3	13.6	85	20.9	30.1
L828237		1.01	<0.01	0.22	6.57	185.5	640	2.07	0.20	0.48	0.19	78.2	14.1	94	24.1	30.5
L828238		1.30	<0.01	0.21	5.72	261	400	1.49	0.17	1.47	0.24	61.7	12.2	71	16.25	27.4
L828239		1.05	<0.01	0.22	8.00	96.0	910	2.81	0.27	0.59	0.15	99.2	13.5	100	51.0	34.9
L828240		0.91	<0.01	0.25	8.43	90.5	910	2.79	0.29	0.59	0.14	101.0	15.1	107	50.0	37.0
L828241		0.41	<0.01	0.16	6.83	22.7	740	1.69	0.26	0.69	0.29	75.0	17.0	84	7.86	55.0



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828202		4.97	15.70	0.15	2.2	0.54	0.061	1.31	26.1	50.6	1.11	651	1.15	0.56	9.6	45.0
L828203		5.23	17.40	0.15	2.5	0.59	0.071	1.49	31.3	56.2	1.40	911	1.04	0.71	10.1	52.3
L828204		3.00	9.73	0.11	1.5	14.2	0.040	0.93	21.7	39.4	0.56	420	1.18	0.27	6.2	26.1
L828205		2.38	9.47	0.11	1.5	4.60	0.039	0.94	23.8	34.5	0.48	380	1.02	0.26	6.0	25.4
L828206		2.21	8.20	0.09	1.3	10.8	0.032	0.77	21.2	30.6	0.41	342	2.16	0.20	5.2	22.2
L828207		1.21	3.65	0.07	0.6	6.93	0.016	0.35	15.3	17.0	0.17	154	0.77	0.11	2.5	10.1
L828208		4.59	18.80	0.17	2.4	0.10	0.071	1.82	36.9	63.3	0.87	920	1.49	0.41	11.3	44.5
L828209		4.78	17.50	0.17	2.5	0.11	0.068	1.79	36.6	56.9	1.05	699	1.32	0.47	11.3	49.1
L828210		4.58	15.85	0.17	2.2	0.08	0.062	1.70	33.2	52.1	1.19	744	1.66	0.53	10.1	45.3
L828211		4.85	18.30	0.18	2.7	0.88	0.068	2.02	39.0	60.4	1.16	554	1.75	0.48	12.6	49.4
L828212		5.15	16.80	0.17	2.5	0.30	0.067	1.75	34.8	53.7	1.33	641	1.91	0.67	12.1	47.7
L828213		5.11	20.8	0.19	3.0	0.28	0.076	2.22	45.3	84.3	0.91	327	3.10	0.40	21.2	47.0
L828214		4.81	21.1	0.18	2.5	0.22	0.075	2.49	48.1	101.5	0.76	341	2.56	0.29	26.4	45.7
L828215		4.42	21.6	0.17	2.5	0.18	0.079	2.64	46.8	104.5	0.79	341	2.00	0.25	28.9	44.3
L828216		4.66	22.1	0.19	2.5	0.20	0.079	2.62	48.9	110.5	0.76	328	2.27	0.25	29.7	50.4
L828217		4.28	21.9	0.19	2.5	0.18	0.078	2.50	48.8	108.0	0.83	336	1.66	0.25	29.3	46.3
L828218		4.51	21.8	0.18	2.6	0.16	0.078	2.65	49.2	97.8	0.86	355	1.52	0.26	29.8	43.3
L828219		4.13	22.3	0.19	2.6	0.15	0.077	2.57	50.4	90.9	0.89	279	1.47	0.27	29.6	38.3
L828220		5.15	22.3	0.21	2.6	0.18	0.075	2.63	50.5	94.2	0.96	374	1.46	0.27	28.7	41.0
L828221		3.56	22.9	0.19	2.6	0.20	0.079	2.72	49.4	83.1	0.91	203	1.08	0.24	28.9	41.0
L828222		4.16	21.6	0.20	2.5	0.17	0.078	2.62	48.7	87.8	0.90	267	1.10	0.24	28.5	38.1
L828223		4.44	22.8	0.21	2.6	0.19	0.080	2.73	49.4	92.1	0.94	328	1.57	0.26	30.2	39.6
L828224		4.26	23.0	0.21	2.6	0.18	0.078	2.79	50.7	103.0	0.91	310	1.44	0.26	30.3	38.6
L828225		4.93	17.55	0.21	2.5	0.12	0.068	1.83	36.0	63.7	1.01	371	1.34	0.45	10.8	52.8
L828226		4.90	16.35	0.19	2.4	0.50	0.064	1.84	32.8	55.8	1.26	424	1.19	0.48	10.6	44.9
L828227		5.20	17.45	0.20	2.6	0.65	0.068	2.00	36.9	57.4	1.20	354	1.86	0.52	12.2	49.8
L828228		1.58	14.85	0.19	2.3	26.3	0.048	1.86	27.2	28.3	0.43	55	6.15	0.09	8.7	64.4
L828229		1.46	15.40	0.26	2.0	28.5	0.058	2.04	29.6	27.6	0.41	52	5.94	0.09	6.7	73.0
L828230		5.25	18.10	0.19	2.6	0.14	0.071	1.94	37.3	56.3	1.21	722	1.27	0.62	12.0	49.2
L828231		4.78	16.70	0.20	2.4	0.13	0.069	1.92	34.5	56.5	1.31	548	1.48	0.49	11.9	46.6
L828232		4.98	16.85	0.19	2.5	0.17	0.066	1.94	35.6	56.8	1.58	606	1.40	0.53	12.2	48.3
L828233		4.00	17.45	0.17	2.4	3.79	0.068	1.89	39.5	49.8	0.67	211	2.29	0.24	14.3	51.6
L828234		4.05	22.4	0.19	2.8	2.65	0.077	2.51	42.3	67.9	0.58	141	1.71	0.26	16.6	62.8
L828235		3.96	16.50	0.16	2.5	3.09	0.064	1.70	33.4	71.9	0.51	172	1.72	0.19	15.9	45.6
L828236		2.89	16.70	0.15	2.4	2.11	0.065	1.71	36.0	78.4	0.42	116	1.57	0.16	19.3	39.6
L828237		1.96	17.80	0.15	2.5	0.93	0.070	1.84	39.6	91.5	0.35	81	1.66	0.16	23.0	36.4
L828238		4.02	14.00	0.17	2.2	1.85	0.053	1.46	30.9	72.4	0.61	158	1.64	0.18	15.8	37.1
L828239		4.44	21.9	0.21	3.0	0.41	0.079	2.51	48.8	102.0	0.74	447	1.60	0.21	30.3	37.5
L828240		4.50	23.6	0.25	3.1	0.35	0.081	2.70	49.5	111.0	0.80	407	3.65	0.22	31.0	41.2
L828241		5.03	18.25	0.22	2.9	0.14	0.069	1.85	35.3	61.3	1.33	461	1.64	0.54	12.5	42.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828202		620	16.2	80.4	<0.002	0.03	0.64	14.9	2	1.9	74.3	0.66	0.08	8.0	0.414	0.77
L828203		700	16.7	95.9	<0.002	0.03	0.71	18.9	2	1.8	98.0	0.67	0.09	9.6	0.480	0.97
L828204		480	10.2	53.3	<0.002	0.07	0.64	9.5	1	1.2	109.0	0.42	0.05	5.8	0.272	1.67
L828205		520	17.6	59.3	<0.002	0.07	1.09	8.4	1	1.2	140.5	0.43	<0.05	6.5	0.230	0.71
L828206		470	7.7	49.3	<0.002	0.08	0.63	7.4	1	1.0	152.5	0.34	<0.05	4.9	0.193	0.72
L828207		380	4.3	19.9	0.002	0.15	0.48	3.3	1	0.5	190.0	0.18	<0.05	2.4	0.102	2.16
L828208		830	18.6	119.0	<0.002	0.04	0.81	16.1	2	2.2	83.1	0.76	0.07	11.1	0.412	0.74
L828209		810	16.6	103.0	0.002	0.07	0.78	16.3	2	2.1	108.5	0.76	0.08	10.9	0.436	0.64
L828210		710	14.7	93.5	0.002	0.10	0.68	14.6	2	1.9	107.5	0.68	0.08	9.9	0.398	0.54
L828211		920	16.7	112.5	0.004	0.10	1.17	17.2	2	2.1	145.5	0.81	0.08	11.5	0.470	1.20
L828212		780	15.5	92.8	0.002	0.13	0.94	17.6	2	2.0	144.5	0.79	0.08	10.4	0.554	1.10
L828213		1200	18.8	128.0	0.027	0.16	2.61	17.0	3	2.4	224	1.27	0.09	12.6	0.504	3.72
L828214		1410	19.3	138.0	0.012	0.25	1.40	15.3	3	2.4	231	1.55	0.10	12.7	0.500	3.39
L828215		1480	19.3	145.0	0.005	0.23	1.03	15.0	2	2.4	234	1.65	0.10	12.3	0.501	3.21
L828216		1530	20.1	148.5	0.009	0.27	1.25	15.4	3	2.5	249	1.67	0.10	12.8	0.506	3.73
L828217		1310	20.7	139.0	0.004	0.31	1.16	14.9	3	2.5	279	1.67	0.11	12.8	0.509	1.44
L828218		1440	19.3	146.5	0.004	0.30	1.01	15.1	3	2.5	227	1.71	0.11	12.5	0.522	1.32
L828219		1400	20.0	146.5	0.003	0.24	1.07	15.5	3	2.5	201	1.67	0.11	13.0	0.523	1.25
L828220		1690	20.5	150.0	0.003	0.43	1.10	15.4	3	2.5	209	1.64	0.10	12.9	0.514	1.39
L828221		1470	17.9	149.0	0.003	0.21	0.93	15.6	2	2.6	304	1.63	0.12	12.5	0.509	1.17
L828222		1420	16.5	144.5	0.003	0.22	0.98	15.0	2	2.4	302	1.58	0.11	12.3	0.503	1.13
L828223		1520	20.1	153.0	0.003	0.25	1.17	15.7	3	2.6	237	1.68	0.11	12.7	0.512	1.24
L828224		1470	20.5	158.0	0.003	0.22	1.08	15.9	3	2.6	226	1.72	0.11	13.2	0.529	1.19
L828225		1220	17.0	110.0	0.003	0.08	0.84	16.4	4	2.0	93.7	0.73	0.08	10.2	0.429	1.89
L828226		830	14.6	99.1	0.002	0.18	0.86	15.6	3	1.8	120.5	0.71	0.08	10.0	0.446	5.58
L828227		1040	17.9	111.0	0.002	0.20	0.95	16.4	2	2.1	167.0	0.81	0.08	11.2	0.489	4.01
L828228		8680	15.4	97.4	0.006	0.24	13.50	9.6	17	1.7	521	0.59	0.16	7.4	0.288	13.85
L828229		>10000	13.8	101.0	0.010	0.25	13.45	9.8	24	1.1	899	0.41	0.18	7.9	0.255	14.70
L828230		890	16.8	103.0	<0.002	0.03	0.89	18.0	2	2.0	105.0	0.79	0.09	10.9	0.512	0.63
L828231		860	16.7	98.7	0.003	0.41	0.91	16.4	2	1.9	179.5	0.77	0.08	10.2	0.473	0.60
L828232		890	17.9	98.6	0.003	0.75	0.89	16.7	2	1.9	176.5	0.80	0.09	10.6	0.498	0.62
L828233		1350	16.1	103.5	0.006	2.77	1.43	13.5	4	2.1	804	0.91	0.09	10.0	0.425	7.91
L828234		1080	23.2	140.5	0.003	3.06	1.09	15.3	2	2.6	659	1.05	0.09	11.8	0.508	7.05
L828235		1300	21.0	98.3	0.002	3.14	1.21	11.9	3	2.0	751	0.96	0.08	9.3	0.391	7.81
L828236		1080	17.3	101.5	0.002	2.25	0.97	11.6	2	2.0	620	1.18	0.09	9.4	0.392	5.69
L828237		1160	18.7	107.0	0.002	1.53	1.18	12.5	2	2.1	533	1.38	0.09	10.2	0.430	3.03
L828238		890	17.0	81.1	0.002	3.34	1.05	10.4	2	1.6	419	0.95	0.08	8.3	0.362	5.95
L828239		1470	20.0	159.0	0.003	0.74	1.01	13.8	3	2.5	262	1.72	0.10	11.1	0.466	2.03
L828240		1420	24.0	169.5	0.003	0.69	1.26	14.8	3	2.6	241	1.79	0.11	11.7	0.487	2.00
L828241		830	17.1	99.5	<0.002	0.05	0.86	15.9	2	2.2	90.4	0.88	0.09	9.9	0.462	0.64



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
L828202		2.1	134	2.3	16.8	135	83.3
L828203		2.2	160	1.6	21.1	150	97.6
L828204		1.7	89	18.1	12.5	85	56.6
L828205		1.8	73	0.8	11.8	81	56.3
L828206		1.6	63	0.7	10.4	64	46.6
L828207		1.3	34	24.8	5.5	37	21.1
L828208		2.7	146	1.3	18.7	132	91.1
L828209		2.6	140	1.2	20.4	129	96.3
L828210		2.2	128	1.0	18.5	118	86.0
L828211		2.9	152	1.2	22.6	139	112.0
L828212		2.5	159	1.2	20.8	127	100.5
L828213		3.1	187	1.5	24.8	362	124.0
L828214		2.8	207	1.6	22.9	468	98.8
L828215		2.8	207	1.6	22.8	423	100.0
L828216		2.9	211	1.7	23.9	451	103.0
L828217		2.8	213	1.7	21.0	322	102.0
L828218		2.7	219	1.7	23.0	205	106.0
L828219		2.8	222	1.7	23.1	144	108.0
L828220		2.8	224	1.7	23.9	163	107.0
L828221		2.8	231	1.7	18.9	136	104.5
L828222		2.7	225	1.6	19.1	135	104.5
L828223		2.7	218	1.7	22.0	138	103.5
L828224		2.8	225	1.7	22.8	139	106.5
L828225		3.3	153	1.2	21.3	152	96.2
L828226		2.6	146	1.2	19.2	136	92.9
L828227		2.8	153	1.5	21.6	157	103.5
L828228		10.3	1280	3.3	26.5	183	90.8
L828229		10.8	624	3.0	30.3	119	85.3
L828230		2.6	163	1.2	22.6	138	102.5
L828231		2.5	148	1.1	20.8	146	98.7
L828232		2.5	148	1.2	21.0	144	102.0
L828233		4.4	171	9.9	21.9	183	92.3
L828234		3.3	179	12.1	23.6	167	106.5
L828235		2.7	148	9.2	20.7	137	95.5
L828236		2.5	148	9.9	19.2	132	90.5
L828237		2.5	160	5.0	20.3	153	96.6
L828238		2.3	131	4.9	17.1	141	83.5
L828239		2.7	190	2.5	24.3	130	109.0
L828240		2.9	206	2.5	24.5	134	111.5
L828241		2.6	153	1.2	21.1	126	99.4



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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828242		0.69	<0.01	0.16	6.95	17.1	640	1.58	0.24	3.34	0.35	77.7	16.8	73	7.34	54.3
L828243		0.61	<0.01	0.15	7.02	16.6	700	1.69	0.25	2.58	0.51	69.2	16.5	82	9.62	51.0
L828244		0.62	<0.01	0.14	7.30	16.8	730	1.63	0.24	2.90	0.34	73.0	16.4	86	9.73	52.1
L828245		0.58	<0.01	0.14	6.67	13.9	590	1.47	0.22	4.07	0.28	69.4	16.0	78	8.15	52.7
L828246		0.92	<0.01	0.15	6.48	14.2	630	1.40	0.21	4.57	0.31	65.3	15.5	81	7.72	48.2
L828247		0.65	<0.01	0.16	7.13	13.7	640	1.55	0.24	4.56	0.32	71.3	15.7	81	8.63	49.1
L828248		0.64	<0.01	0.14	7.07	13.4	680	1.67	0.23	3.94	0.34	73.4	17.2	80	8.16	52.8
L828249		0.61	0.02	0.15	7.30	24.7	670	1.61	0.23	3.56	0.31	72.7	17.6	87	9.06	53.7
L828250		0.94	<0.01	0.15	7.33	56.6	730	1.64	0.24	3.76	0.31	73.4	15.8	83	10.20	49.7
L828251		0.71	<0.01	0.12	8.61	300	990	2.14	0.27	1.46	0.15	87.2	16.5	94	24.6	35.7
L828252		0.68	<0.01	0.11	8.48	234	960	2.14	0.28	1.24	0.13	84.6	16.5	93	24.7	35.3
L828253		0.59	<0.01	0.14	8.33	3400	860	1.95	0.27	1.61	0.12	82.4	16.7	85	23.0	33.6
L828254		0.67	<0.01	0.14	8.24	4220	420	1.82	0.26	1.99	0.15	81.0	16.3	88	20.4	33.5
L828255		0.81	<0.01	0.15	6.54	4430	270	1.41	0.21	2.17	0.17	67.4	14.7	104	15.35	30.0
L828256		0.64	<0.01	0.14	7.20	22.2	790	1.76	0.25	0.58	0.38	79.4	18.2	86	8.15	53.3
L828257		0.65	<0.01	0.14	7.56	23.8	830	1.80	0.26	1.58	0.32	77.6	18.1	88	11.20	55.3
L828258		0.82	<0.01	0.15	7.31	19.8	770	1.68	0.25	3.64	0.28	75.1	16.4	85	10.95	50.5
L828259		0.43	<0.01	0.17	8.56	20.4	900	1.97	0.29	2.88	0.32	79.6	18.5	101	13.60	53.3
L828260		0.66	<0.01	0.13	7.95	16.8	900	1.85	0.27	2.60	0.29	82.5	17.3	91	12.65	48.5
L828261		0.64	<0.01	0.17	7.26	16.2	760	1.62	0.25	4.22	0.60	73.4	15.8	83	10.85	50.1
L828262		0.73	<0.01	0.17	7.24	15.4	750	1.57	0.25	3.45	0.30	75.2	16.0	81	11.00	50.4
L828263		0.77	<0.01	0.17	7.48	30.6	770	1.75	0.26	3.65	0.32	77.2	17.8	85	11.60	53.5
L828264		0.99	<0.01	0.17	7.36	18.4	730	1.68	0.25	3.41	0.29	76.7	16.8	86	12.35	51.6
L828265		0.66	<0.01	0.08	6.66	12.8	400	1.66	0.21	2.70	0.11	74.8	15.1	80	16.15	25.7
L828266		0.50	<0.01	0.09	6.28	12.5	390	1.61	0.19	2.77	0.13	73.4	14.1	85	15.25	25.1
L828267		0.79	<0.01	0.17	7.29	26.3	800	1.79	0.26	1.06	0.36	79.6	16.8	86	10.45	52.5
L828268		0.72	<0.01	0.15	7.17	14.8	680	1.73	0.24	3.92	0.29	74.0	16.8	80	8.32	47.7
L828269		0.71	<0.01	0.15	6.91	14.3	690	1.60	0.24	3.30	0.30	65.8	15.3	79	8.10	45.2
L828270		0.76	<0.01	0.18	7.12	15.2	790	1.63	0.24	4.58	0.35	72.0	16.4	80	7.57	52.3
L828271		0.77	<0.01	0.17	7.34	14.8	750	1.74	0.26	3.38	0.29	73.0	17.0	81	7.56	52.2
L828272		0.74	<0.01	0.13	7.00	14.3	640	1.66	0.27	4.48	0.28	74.0	15.2	70	6.81	43.2
L828273		0.57	<0.01	0.14	7.30	15.6	700	1.80	0.27	3.72	0.28	73.3	16.5	82	7.76	44.9
L828274		0.68	<0.01	0.09	7.86	14.3	580	2.00	0.25	1.11	0.11	80.0	17.7	85	14.35	31.0
L828275		0.72	<0.01	0.09	8.13	12.6	540	1.97	0.23	1.32	0.16	74.7	15.9	85	14.45	37.6
L828276		0.56	<0.01	0.09	8.74	9.4	450	1.96	0.25	1.05	0.08	75.6	18.0	89	14.50	31.4
L828277		0.59	<0.01	0.08	8.00	9.5	430	1.89	0.21	1.50	0.13	72.9	16.1	83	13.95	31.7
L828278		0.57	<0.01	0.09	8.68	13.2	490	2.10	0.25	0.86	0.12	80.3	17.0	93	15.90	36.2
L828279		0.55	<0.01	0.09	7.48	10.4	440	2.04	0.23	0.78	0.11	68.1	16.0	85	15.75	33.1
L828280		0.53	<0.01	0.15	6.95	18.5	650	1.57	0.23	0.83	0.37	67.8	19.0	82	6.32	62.9
L828281		0.61	<0.01	0.10	9.21	19.9	890	2.41	0.27	0.26	0.17	68.5	19.9	103	10.70	38.0



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 Account: RCMP

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828242		4.98	18.10	0.23	3.1	0.13	0.073	1.92	36.8	55.4	1.41	661	1.44	0.47	11.9	41.6
L828243		4.91	18.65	0.22	2.8	0.10	0.072	1.98	31.5	56.5	1.16	530	1.52	0.45	12.1	46.4
L828244		4.98	18.50	0.22	3.0	0.11	0.069	1.99	34.9	57.0	1.22	553	1.87	0.47	11.8	45.3
L828245		4.97	17.25	0.22	2.8	0.08	0.066	1.83	32.9	52.8	1.51	538	1.83	0.44	11.2	42.4
L828246		4.45	16.55	0.21	2.7	0.11	0.064	1.78	31.6	50.6	1.45	502	1.55	0.45	10.9	40.2
L828247		4.70	17.95	0.22	2.9	0.08	0.068	1.99	34.3	55.1	1.40	554	1.65	0.46	11.3	42.6
L828248		4.86	18.35	0.21	3.0	0.09	0.064	1.95	34.6	57.7	1.44	557	1.49	0.47	11.9	46.1
L828249		4.94	19.15	0.22	3.1	0.09	0.071	1.95	35.0	57.4	1.45	609	1.36	0.49	11.7	47.3
L828250		4.80	19.10	0.22	3.0	0.08	0.072	2.07	35.1	56.8	1.43	540	1.36	0.45	12.0	44.9
L828251		4.85	23.1	0.24	3.0	0.45	0.079	2.49	41.7	101.5	1.21	605	1.32	0.33	16.2	49.9
L828252		4.86	22.7	0.24	3.0	0.43	0.077	2.47	40.4	97.8	1.15	586	1.12	0.32	15.3	48.5
L828253		4.71	22.6	0.23	2.9	0.86	0.078	2.25	38.5	92.6	1.12	490	1.09	0.26	15.8	48.3
L828254		4.66	21.6	0.23	3.0	0.92	0.074	2.11	38.6	88.3	1.16	508	1.13	0.25	16.4	47.7
L828255		4.23	17.40	0.21	2.5	0.74	0.060	1.61	32.6	70.6	1.03	484	1.92	0.20	14.6	41.2
L828256		5.26	19.95	0.24	3.0	0.11	0.072	1.92	37.7	57.9	0.90	807	1.51	0.50	12.4	47.0
L828257		5.03	20.4	0.22	2.9	0.10	0.072	2.10	36.5	62.1	0.91	598	1.58	0.45	13.6	47.7
L828258		4.98	19.30	0.22	2.8	0.10	0.071	2.06	35.4	58.3	1.02	444	1.48	0.41	13.7	43.8
L828259		5.53	22.6	0.24	3.3	0.10	0.082	2.44	36.9	69.5	1.42	584	1.68	0.45	15.9	53.8
L828260		5.02	21.6	0.25	3.4	0.11	0.075	2.20	39.7	67.8	1.30	517	1.50	0.42	15.0	48.4
L828261		4.72	19.35	0.22	2.9	0.12	0.073	2.08	34.6	58.1	1.32	526	1.72	0.42	14.1	42.9
L828262		4.80	19.20	0.21	2.9	0.13	0.069	2.03	35.9	57.6	1.43	570	1.49	0.42	13.8	41.5
L828263		4.92	20.0	0.23	3.0	0.11	0.070	2.07	37.5	63.3	1.43	563	1.79	0.46	13.1	46.6
L828264		4.88	20.5	0.24	3.0	0.09	0.071	2.04	36.5	62.4	1.40	547	1.59	0.44	13.6	43.8
L828265		4.17	18.40	0.22	2.8	0.02	0.057	1.79	34.7	66.8	1.34	729	1.18	0.35	11.4	41.5
L828266		4.03	17.25	0.22	2.8	0.03	0.056	1.67	34.0	66.2	1.33	747	1.75	0.35	11.0	39.0
L828267		4.98	20.8	0.23	3.1	0.12	0.072	1.99	37.9	59.1	0.91	557	1.63	0.47	13.5	44.1
L828268		4.76	19.35	0.23	3.0	0.11	0.067	1.94	35.4	60.3	1.08	581	1.30	0.45	12.1	43.1
L828269		4.68	17.95	0.21	2.7	0.10	0.070	1.98	30.3	55.8	1.16	551	1.32	0.46	11.7	41.6
L828270		4.72	18.85	0.22	3.0	0.15	0.069	1.98	34.7	58.3	1.46	600	1.30	0.49	11.8	42.9
L828271		4.94	20.2	0.22	2.8	0.12	0.071	2.04	34.8	61.5	1.44	611	1.22	0.48	12.0	43.5
L828272		4.33	18.70	0.22	2.6	0.09	0.064	1.92	35.3	57.8	1.23	647	1.15	0.40	11.4	37.0
L828273		4.64	20.3	0.21	2.8	0.10	0.070	2.06	34.3	61.7	1.23	594	1.50	0.42	12.0	42.2
L828274		4.74	21.2	0.21	2.9	0.04	0.070	2.11	37.2	73.3	1.14	525	0.83	0.46	12.1	49.7
L828275		4.33	20.9	0.17	2.9	0.03	0.073	2.06	38.0	74.8	1.13	444	0.92	0.43	12.7	50.1
L828276		5.62	21.6	0.20	2.8	0.01	0.074	2.21	37.9	71.6	1.48	627	0.78	0.42	12.6	60.3
L828277		4.76	20.7	0.20	2.7	0.01	0.074	2.06	36.6	65.8	1.43	834	0.83	0.44	12.4	51.8
L828278		4.54	22.6	0.19	2.9	0.02	0.082	2.33	40.1	77.9	1.23	489	1.00	0.45	13.3	53.2
L828279		4.26	22.1	0.19	2.8	0.01	0.079	2.15	31.0	76.0	1.08	489	0.96	0.44	13.0	50.7
L828280		5.32	18.65	0.20	2.6	0.09	0.074	1.68	33.5	55.1	1.37	718	1.28	0.56	11.5	50.5
L828281		5.07	25.0	0.19	3.2	0.04	0.082	2.38	31.2	148.0	0.43	527	1.37	0.32	13.7	64.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02		
L828242		780	16.2	107.5	0.002	0.03	0.89	16.3	2	2.0	129.5	0.85	0.08	9.9	0.449	0.60	
L828243		800	16.5	90.5	0.003	0.24	0.90	15.9	2	2.2	146.5	0.87	0.08	8.9	0.461	0.66	
L828244		800	16.4	108.5	0.003	0.34	0.87	16.1	2	2.1	153.0	0.84	0.08	9.7	0.470	0.66	
L828245		820	15.6	97.1	0.002	0.55	0.76	14.8	2	2.0	170.0	0.80	0.09	8.8	0.441	0.59	
L828246		730	14.6	97.3	0.003	0.51	0.73	14.0	2	1.9	196.0	0.77	0.08	8.7	0.425	0.60	
L828247		860	16.4	107.5	0.003	0.58	0.81	15.1	2	2.1	176.5	0.82	0.08	9.7	0.439	0.65	
L828248		800	15.8	111.5	0.003	0.59	0.81	16.3	2	2.0	180.5	0.83	0.08	9.7	0.445	0.63	
L828249		790	15.5	113.0	0.003	0.46	0.82	17.9	2	2.1	151.5	0.83	0.08	9.8	0.487	0.65	
L828250		770	16.7	116.5	0.003	0.47	0.80	16.0	2	2.1	167.0	0.83	0.08	9.9	0.452	0.66	
L828251		940	19.7	138.5	0.002	1.44	0.85	16.7	2	2.7	262	1.08	0.08	11.1	0.458	1.73	
L828252		890	17.5	142.5	0.002	1.25	0.75	16.6	2	2.7	224	1.03	0.07	11.4	0.457	1.58	
L828253		810	21.8	126.0	0.002	2.46	1.18	16.6	2	2.7	260	1.03	0.07	10.5	0.440	3.06	
L828254		900	19.9	120.5	0.002	2.36	1.17	16.1	2	2.5	282	1.06	0.07	10.6	0.439	3.34	
L828255		880	17.1	96.9	0.002	2.28	1.07	13.2	3	2.0	248	0.93	0.07	8.9	0.365	2.44	
L828256		880	18.1	117.5	0.002	0.03	0.98	17.6	2	2.2	101.5	0.88	0.09	10.3	0.460	0.69	
L828257		880	18.3	117.0	0.004	0.08	0.93	17.5	2	2.3	144.5	0.94	0.09	10.5	0.468	0.73	
L828258		840	17.5	108.0	0.003	0.29	0.91	16.7	2	2.2	178.5	0.94	0.09	9.7	0.462	0.65	
L828259		990	19.2	108.0	0.003	0.89	1.03	17.7	2	2.6	183.5	1.09	0.10	10.3	0.529	0.80	
L828260		890	17.9	131.5	0.003	0.79	0.92	18.2	3	2.4	172.5	1.01	0.09	10.8	0.478	0.75	
L828261		860	16.6	99.8	0.005	0.65	0.98	15.3	2	2.2	202	0.96	0.09	9.4	0.455	0.68	
L828262		830	16.8	111.0	0.004	0.63	0.89	15.7	2	2.2	184.5	0.95	0.09	9.7	0.450	0.65	
L828263		800	20.1	117.5	0.003	0.76	1.05	16.6	3	2.3	167.0	0.93	0.08	10.3	0.465	0.68	
L828264		820	16.7	117.0	0.003	0.54	0.89	16.3	2	2.2	182.0	0.94	0.08	10.4	0.452	0.66	
L828265		830	17.1	109.5	0.002	0.26	0.68	14.1	2	2.1	159.5	0.82	0.05	10.0	0.390	0.59	
L828266		820	17.3	103.5	<0.002	0.26	0.66	13.3	2	2.0	158.5	0.77	0.05	9.5	0.374	0.56	
L828267		890	18.2	118.0	0.003	0.02	0.96	17.0	2	2.2	125.0	0.94	0.09	10.6	0.460	0.70	
L828268		800	16.8	114.5	0.004	0.12	0.86	15.9	2	2.2	187.0	0.83	0.08	10.2	0.432	0.66	
L828269		810	17.4	85.5	0.003	0.16	0.89	14.8	2	2.2	168.0	0.83	0.08	8.9	0.435	0.65	
L828270		770	16.7	107.5	0.004	0.40	0.83	16.5	2	2.1	198.5	0.83	0.08	9.7	0.451	0.64	
L828271		800	17.0	101.5	0.003	0.47	0.83	16.6	2	2.3	168.5	0.86	0.09	9.9	0.450	0.66	
L828272		650	15.8	109.5	0.003	0.39	0.72	14.6	2	2.1	176.5	0.83	0.07	10.3	0.394	0.59	
L828273		740	17.0	97.6	0.003	0.43	0.80	15.4	2	2.3	160.0	0.87	0.07	9.9	0.426	0.65	
L828274		820	32.5	131.0	<0.002	1.51	1.18	16.9	2	2.5	150.5	0.88	0.06	10.9	0.435	0.74	
L828275		720	23.6	113.5	0.002	0.93	0.89	16.3	2	2.6	137.0	0.85	0.06	12.1	0.432	0.74	
L828276		750	13.4	121.5	<0.002	0.26	0.54	16.6	2	2.7	107.5	0.84	0.05	12.6	0.449	0.75	
L828277		710	16.8	114.5	<0.002	0.26	0.56	16.0	2	2.5	103.0	0.82	0.06	11.5	0.422	0.67	
L828278		730	17.5	128.5	0.002	0.32	0.64	18.3	2	2.9	101.5	0.91	0.07	12.5	0.450	0.81	
L828279		690	16.5	111.0	0.002	0.27	0.60	18.7	2	2.8	95.7	0.86	0.06	11.3	0.419	0.75	
L828280		820	19.0	85.7	0.002	0.04	0.84	18.4	2	2.1	73.1	0.78	0.09	10.2	0.500	0.62	
L828281		940	22.5	131.0	0.002	0.05	0.94	20.7	2	2.9	166.0	0.96	0.07	12.9	0.484	1.04	





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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828242		2.5	143	1.3	22.4	128	106.0
L828243		2.4	155	1.3	19.1	137	97.2
L828244		2.6	152	1.3	20.6	137	105.5
L828245		2.5	141	1.2	19.7	119	96.1
L828246		2.7	136	1.1	19.6	112	95.6
L828247		2.7	143	1.2	20.0	125	101.0
L828248		2.7	146	1.3	21.6	127	105.0
L828249		2.7	160	1.2	21.5	129	107.0
L828250		2.6	150	1.3	21.1	132	105.0
L828251		2.7	159	1.5	20.7	133	103.0
L828252		2.7	157	1.5	20.6	131	101.5
L828253		2.5	149	2.2	18.2	128	102.0
L828254		2.6	151	2.3	18.5	135	104.0
L828255		2.4	142	2.2	16.0	125	86.8
L828256		2.8	157	1.3	23.5	136	104.5
L828257		2.6	165	1.4	21.6	142	101.0
L828258		2.5	161	1.3	20.7	135	99.6
L828259		2.8	190	1.6	22.1	155	115.0
L828260		2.9	169	1.4	23.4	146	119.5
L828261		2.7	172	1.3	20.5	150	100.0
L828262		2.6	154	1.3	20.5	130	99.6
L828263		2.7	156	1.3	21.6	131	105.5
L828264		2.7	153	1.3	21.8	123	103.5
L828265		2.2	107	1.3	22.7	108	97.2
L828266		2.2	101	1.3	22.9	110	97.8
L828267		2.8	158	1.3	22.7	132	106.0
L828268		2.6	137	1.2	21.6	121	107.0
L828269		2.3	142	1.2	18.8	123	95.6
L828270		2.7	144	1.2	21.6	125	104.5
L828271		2.6	145	1.3	20.3	125	97.4
L828272		2.5	120	1.3	19.9	113	88.7
L828273		2.6	135	1.3	19.6	117	93.8
L828274		2.5	129	1.4	20.6	123	101.0
L828275		2.7	131	1.4	20.3	144	102.5
L828276		2.8	139	1.4	20.0	109	100.0
L828277		2.5	127	1.3	20.2	115	100.0
L828278		2.8	142	1.4	20.6	120	101.0
L828279		2.6	134	1.4	20.2	124	99.8
L828280		2.5	164	1.1	21.0	128	92.5
L828281		3.5	176	1.6	18.5	157	111.0



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828282		0.62	<0.01	0.09	9.81	18.2	1380	2.39	0.29	0.18	0.16	86.6	18.5	107	10.15	42.4
L828283		0.68	<0.01	0.09	8.67	12.9	700	1.89	0.24	1.21	0.21	72.1	16.4	89	8.32	34.9
L828284		0.55	<0.01	0.08	8.51	13.1	700	2.09	0.27	1.02	0.18	80.7	16.5	88	9.99	34.1
L828285		0.46	<0.01	0.09	8.95	14.2	740	2.29	0.27	0.52	0.19	78.9	17.9	97	9.81	39.2
L828286		0.46	<0.01	0.07	8.75	12.8	750	2.26	0.25	0.42	0.18	80.0	17.6	95	10.10	40.3
L828287		0.71	<0.01	0.09	2.33	108	220	0.44	0.07	17.50	0.57	19.55	5.1	20	2.26	12.6
L828288		0.55	<0.01	0.19	3.86	262	480	0.73	0.11	13.70	0.85	32.7	7.4	35	3.68	19.3
L828289		0.50	<0.01	0.23	0.87	148	110	0.23	0.03	20.7	1.97	7.66	2.4	8	1.10	5.1
L828290		0.46	<0.01	0.27	1.06	151	120	0.27	0.03	20.1	1.91	9.46	2.4	9	1.35	6.0
L828291		0.58	<0.01	0.38	0.38	132	40	0.17	0.01	21.5	2.52	3.10	1.2	18	0.84	3.4
L828292		1.37	<0.01	3.73	5.33	2490	810	1.02	0.14	11.70	23.1	47.3	5.0	51	51.9	21.2
L828293		0.69	<0.01	0.22	8.20	1910	1160	1.76	0.24	0.59	0.89	75.5	17.0	92	40.5	29.3
L828294		0.80	<0.01	0.14	8.67	1370	1150	1.96	0.25	0.58	0.49	78.9	15.8	97	67.4	29.3
L828295		0.70	<0.01	0.14	8.32	522	1360	2.01	0.23	0.56	0.52	77.7	15.5	88	36.8	28.4
L828296		0.75	<0.01	0.07	7.63	263	1070	2.01	0.23	0.37	0.13	80.7	15.2	87	31.0	27.0
L828297		0.54	<0.01	0.12	8.04	302	740	1.99	0.21	0.79	0.28	72.4	15.8	83	29.1	27.2
L828298		0.85	<0.01	0.11	8.10	298	740	2.05	0.23	0.58	0.22	77.0	15.8	87	32.1	28.9
L828299		0.72	<0.01	0.10	9.18	276	760	2.14	0.25	0.41	0.14	83.9	17.8	98	37.5	31.0
L828300		0.68	<0.01	0.09	8.59	295	870	2.30	0.26	0.37	0.15	78.4	18.5	92	38.9	33.3
L828301		0.65	<0.01	0.08	8.58	338	640	2.15	0.24	0.46	0.13	78.4	16.8	93	50.8	30.8
L828302		0.61	<0.01	0.08	9.27	270	740	2.33	0.26	0.43	0.11	85.1	17.8	97	59.3	30.1
L828303		0.64	<0.01	0.07	9.11	118.5	690	2.35	0.25	0.45	0.11	75.1	17.7	93	46.3	31.4
L828304		0.62	<0.01	0.09	8.40	193.5	770	2.17	0.23	0.61	0.18	77.0	16.4	88	55.4	28.2
L828305		0.53	<0.01	0.06	9.28	1075	1270	2.16	0.30	0.32	0.12	83.8	18.6	97	18.10	36.7
L828306		0.48	<0.01	0.13	9.44	796	2530	2.40	0.30	0.27	0.13	85.8	19.3	104	17.95	39.5
L828307		0.75	<0.01	0.12	9.36	1170	950	2.33	0.29	0.28	0.15	83.4	19.0	106	17.35	41.7
L828308		0.53	<0.01	0.12	8.89	45.2	700	2.21	0.28	0.34	0.13	83.4	21.1	98	16.45	35.2
L828309		0.62	<0.01	0.07	8.90	33.1	680	2.39	0.26	0.43	0.12	78.7	18.5	89	16.50	30.6
L828310		0.66	<0.01	0.08	8.53	39.9	610	2.32	0.26	0.48	0.10	77.3	17.7	89	16.80	31.2
L828311		0.89	<0.01	0.13	8.94	40.0	660	2.38	0.28	0.52	0.12	70.4	20.1	92	16.95	34.6
L828312		0.57	<0.01	0.11	9.01	32.4	660	2.32	0.28	0.55	0.13	67.6	19.4	92	16.90	36.1
L828313		0.52	<0.01	0.13	9.32	26.7	680	2.41	0.29	0.55	0.13	76.1	20.4	94	17.45	36.2
L828314		0.53	<0.01	0.15	7.72	1720	730	2.03	0.26	0.34	0.47	60.0	16.8	91	11.85	33.5
L828315		0.78	<0.01	0.14	9.28	1245	810	2.30	0.29	0.27	0.20	73.6	19.4	102	13.20	39.3
L828316		0.94	<0.01	0.14	9.54	1705	780	2.18	0.28	0.28	0.19	76.5	19.9	104	11.95	39.7
L828317		0.66	<0.01	0.14	9.18	216	850	2.11	0.28	0.29	0.22	79.4	20.2	99	11.15	38.8
L828318		0.77	<0.01	0.15	8.81	99.5	690	2.19	0.28	0.47	0.21	77.0	21.6	89	10.90	38.4
L828319		0.67	<0.01	0.14	8.95	60.6	1010	2.19	0.25	1.65	0.21	72.2	19.9	83	11.20	38.2
L828320		0.76	<0.01	0.16	9.29	69.6	990	2.34	0.28	0.93	0.19	72.2	21.2	88	11.00	40.1
L828321		0.67	<0.01	0.12	8.12	147.5	1150	1.73	0.23	1.87	0.27	66.4	17.3	79	8.19	35.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 22- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828282		4.64	25.6	0.19	3.3	0.04	0.085	2.31	43.9	161.5	0.45	351	1.40	0.28	13.9	61.8
L828283		4.75	21.9	0.19	2.9	0.03	0.078	2.19	36.9	97.1	1.30	696	2.25	0.31	12.4	55.8
L828284		4.52	22.9	0.19	3.0	0.04	0.077	2.33	39.6	93.1	1.20	504	2.42	0.32	12.1	55.0
L828285		4.54	24.4	0.20	3.1	0.03	0.079	2.55	40.1	89.0	1.20	367	2.05	0.32	14.1	60.1
L828286		4.39	24.0	0.20	3.1	0.03	0.075	2.57	40.7	97.5	1.18	351	1.87	0.31	13.7	60.2
L828287		1.23	5.66	0.08	0.8	1.08	0.020	0.61	10.0	14.2	8.37	261	0.76	0.13	3.6	13.7
L828288		2.09	8.92	0.11	1.3	2.07	0.035	1.00	16.9	24.9	6.45	308	1.01	0.20	5.7	22.9
L828289		0.51	2.19	0.07	0.3	3.96	0.009	0.23	3.9	5.7	9.57	280	0.28	0.05	1.5	4.7
L828290		0.60	2.55	0.07	0.4	3.17	0.011	0.29	4.9	7.2	9.15	274	0.36	0.06	1.8	5.1
L828291		0.37	1.06	0.10	0.1	3.63	<0.005	0.11	1.6	2.6	10.95	297	2.88	0.02	0.7	1.3
L828292		2.53	12.70	0.12	1.9	21.5	0.044	1.52	23.9	24.4	5.10	497	1.41	0.09	9.6	18.1
L828293		4.59	20.7	0.18	2.8	0.87	0.074	2.55	36.5	113.0	0.44	448	1.19	0.14	12.1	54.2
L828294		4.51	22.8	0.19	3.2	0.71	0.082	2.75	38.5	113.0	0.39	429	1.17	0.14	14.7	49.1
L828295		4.26	21.9	0.19	2.9	0.56	0.072	2.59	39.3	115.0	0.99	305	0.73	0.14	13.2	51.0
L828296		4.28	21.4	0.20	2.8	0.08	0.070	2.60	38.3	114.5	1.00	420	0.76	0.14	12.2	48.7
L828297		4.47	20.5	0.19	2.8	0.26	0.071	2.49	36.1	128.0	1.05	672	0.98	0.15	12.4	48.6
L828298		4.46	21.3	0.19	3.0	0.17	0.072	2.53	39.4	135.5	1.05	579	1.21	0.15	12.4	49.6
L828299		4.92	23.9	0.23	3.0	0.09	0.081	2.86	42.4	156.0	1.04	573	0.85	0.21	13.3	55.8
L828300		4.54	23.8	0.19	2.9	0.07	0.079	2.73	38.7	157.5	0.84	476	0.93	0.20	12.9	56.5
L828301		4.70	22.4	0.20	2.9	0.06	0.078	2.63	39.3	145.0	0.85	493	0.91	0.18	12.6	52.2
L828302		4.78	24.6	0.20	3.0	0.06	0.075	2.89	43.1	147.5	1.05	460	0.89	0.19	12.8	54.0
L828303		4.65	23.3	0.20	2.8	0.07	0.073	2.85	38.0	141.0	1.12	411	0.80	0.18	12.6	54.5
L828304		4.36	21.9	0.19	2.9	0.15	0.072	2.61	38.9	129.5	1.09	465	0.78	0.16	12.0	50.4
L828305		4.47	23.1	0.20	2.9	0.05	0.081	2.51	43.9	97.5	0.62	462	1.20	0.35	12.3	54.7
L828306		4.43	25.1	0.16	3.1	0.03	0.097	2.71	40.1	97.8	0.52	360	1.77	0.34	12.6	63.1
L828307		4.88	25.7	0.18	3.2	0.03	0.095	2.60	38.6	94.4	0.55	547	1.71	0.34	12.9	66.0
L828308		4.85	24.6	0.18	2.9	0.03	0.090	2.49	39.7	84.3	0.83	560	1.53	0.36	12.2	70.4
L828309		4.01	24.1	0.19	3.0	0.03	0.078	2.41	40.2	91.1	0.85	491	1.46	0.35	13.2	57.5
L828310		4.85	23.1	0.20	3.0	0.04	0.074	2.43	39.0	91.3	1.18	405	1.57	0.30	12.5	59.4
L828311		4.54	25.9	0.21	2.8	0.03	0.080	2.72	35.0	99.5	1.17	402	1.77	0.32	13.3	63.5
L828312		4.47	25.5	0.21	2.8	0.03	0.079	2.77	33.3	98.7	1.15	387	1.40	0.30	12.6	60.7
L828313		4.69	26.1	0.22	2.9	0.03	0.082	2.80	38.8	103.0	1.18	368	1.35	0.31	13.5	62.4
L828314		4.88	22.7	0.22	2.8	0.29	0.077	2.17	28.9	80.2	0.75	680	1.61	0.33	13.1	52.1
L828315		4.90	25.4	0.22	2.9	0.07	0.082	2.46	36.4	110.5	0.45	487	1.67	0.30	13.2	64.4
L828316		5.41	26.1	0.24	2.8	0.04	0.088	2.55	37.7	121.0	0.40	737	1.86	0.28	13.0	67.5
L828317		4.77	26.0	0.24	3.0	0.04	0.082	2.51	40.3	106.0	0.76	286	2.24	0.29	13.8	63.3
L828318		4.96	25.1	0.26	3.0	0.04	0.084	2.39	38.9	100.0	0.94	468	2.32	0.28	13.2	69.5
L828319		4.78	24.3	0.23	2.7	0.04	0.077	2.40	36.8	106.5	1.39	912	1.84	0.28	11.9	62.6
L828320		4.85	26.5	0.23	2.7	0.05	0.081	2.49	35.8	107.0	1.22	498	2.49	0.29	13.0	67.8
L828321		4.93	21.3	0.22	2.5	0.05	0.075	1.96	33.7	87.7	1.54	798	1.48	0.23	11.2	56.7

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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828282		820	18.5	127.5	0.002	0.48	0.83	20.8	2	3.1	311	0.97	0.07	14.0	0.501	0.92
L828283		960	19.5	116.0	0.002	1.53	0.82	18.6	2	2.5	134.5	0.82	0.06	11.8	0.449	0.84
L828284		1090	21.8	124.0	0.002	1.78	0.70	20.1	2	2.6	137.0	0.88	0.07	13.3	0.433	1.00
L828285		990	19.8	142.5	0.002	1.47	0.87	20.0	2	2.8	126.0	0.92	0.07	13.6	0.479	1.07
L828286		930	16.5	145.0	0.002	1.39	0.88	20.0	2	2.8	118.5	0.91	0.06	12.9	0.473	1.08
L828287		260	21.8	29.8	0.002	0.01	0.79	4.6	1	0.7	148.0	0.23	<0.05	3.2	0.119	1.62
L828288		390	27.7	48.7	0.002	0.02	1.37	7.2	1	1.1	146.5	0.37	<0.05	5.2	0.195	4.04
L828289		90	60.2	11.1	<0.002	0.02	2.27	1.8	1	0.3	146.0	0.09	<0.05	1.2	0.043	3.65
L828290		120	60.1	14.4	<0.002	0.01	2.46	2.1	1	0.4	150.5	0.10	<0.05	1.5	0.053	3.21
L828291		50	54.4	5.3	<0.002	0.01	2.52	0.8	1	0.2	152.0	<0.05	<0.05	0.5	0.015	3.67
L828292		570	876	78.8	0.003	0.03	15.55	8.7	2	1.6	386	0.62	<0.05	7.1	0.276	67.6
L828293		790	40.5	127.5	0.002	0.04	1.86	16.1	1	2.6	106.5	0.86	0.05	12.4	0.421	23.2
L828294		720	20.1	144.0	0.003	0.05	1.53	17.5	2	3.0	117.5	1.01	0.07	12.9	0.467	25.3
L828295		730	24.0	134.5	0.002	0.07	0.79	16.6	2	2.7	121.5	0.89	0.06	12.5	0.448	13.60
L828296		700	10.2	129.5	<0.002	0.08	0.50	18.2	1	2.6	100.5	0.85	0.05	13.3	0.423	9.08
L828297		720	20.5	130.0	0.002	0.18	0.74	16.2	2	2.5	93.1	0.84	0.05	11.6	0.426	9.63
L828298		710	16.5	130.0	<0.002	0.10	0.70	16.6	2	2.7	95.8	0.88	0.06	12.6	0.438	8.83
L828299		790	18.1	152.0	<0.002	0.34	0.72	18.9	2	3.0	111.5	0.91	0.06	12.7	0.464	4.66
L828300		780	20.5	146.5	<0.002	0.46	0.72	19.2	2	2.8	105.0	0.88	0.06	12.9	0.437	5.07
L828301		850	26.3	142.0	0.002	0.70	0.84	18.7	2	2.7	117.5	0.89	0.05	12.4	0.430	3.15
L828302		820	21.2	155.5	<0.002	0.66	0.74	19.1	2	2.9	113.5	0.91	0.05	13.8	0.461	3.30
L828303		740	21.4	149.5	0.002	0.92	0.76	18.6	2	2.8	111.0	0.85	0.05	12.8	0.456	2.01
L828304		760	20.5	137.0	<0.002	0.57	0.70	17.4	1	2.7	101.0	0.88	0.05	12.4	0.423	2.89
L828305		780	14.3	168.0	<0.002	0.02	0.75	19.1	1	2.9	103.0	0.83	0.06	12.4	0.471	1.15
L828306		770	20.7	181.5	0.003	0.07	0.97	18.8	2	3.1	112.5	1.02	0.07	13.1	0.485	1.20
L828307		820	14.8	167.5	0.003	0.03	0.87	20.1	2	2.9	109.0	1.05	0.10	12.7	0.493	1.09
L828308		800	21.2	166.0	0.002	1.13	0.83	18.5	2	2.8	102.0	0.98	0.07	12.7	0.456	1.06
L828309		810	20.8	145.0	0.002	1.31	0.76	20.4	2	2.8	94.2	0.89	0.06	13.1	0.447	0.95
L828310		770	21.8	141.5	0.002	1.67	0.74	19.7	2	2.7	91.1	0.87	0.06	13.0	0.437	0.98
L828311		860	22.0	163.0	0.002	1.77	0.69	19.4	2	2.6	93.8	0.85	0.05	11.9	0.453	1.02
L828312		890	21.6	159.5	<0.002	1.78	0.63	18.6	2	2.6	93.2	0.85	0.05	11.3	0.440	1.08
L828313		880	21.6	176.5	<0.002	1.85	0.67	19.6	2	2.7	101.0	0.89	0.06	12.4	0.460	1.07
L828314		860	25.8	121.5	0.002	0.05	0.90	17.0	2	2.4	88.5	0.87	0.06	9.9	0.438	14.10
L828315		900	23.0	151.5	0.002	0.04	0.88	19.7	2	2.5	152.0	0.87	0.05	12.3	0.459	4.05
L828316		860	22.5	153.0	0.002	0.03	1.00	20.0	2	2.5	157.5	0.85	0.06	12.2	0.456	2.24
L828317		940	20.5	154.0	0.002	1.28	0.78	19.6	2	2.6	161.5	0.90	0.06	12.4	0.470	1.13
L828318		940	24.3	147.0	0.002	1.68	0.85	19.1	2	2.6	152.5	0.89	0.05	12.2	0.444	1.07
L828319		1100	23.3	139.0	0.002	2.09	0.76	19.2	2	2.4	303	0.80	0.05	11.4	0.426	1.02
L828320		1180	27.7	140.0	0.002	2.20	0.86	19.3	2	2.7	321	0.81	0.06	11.6	0.430	1.08
L828321		1020	20.0	115.5	0.002	1.80	0.67	17.4	2	2.2	351	0.74	0.05	10.5	0.391	1.02



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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828282		3.4	185	1.7	18.2	158	113.5
L828283		3.1	165	1.4	19.9	177	106.0
L828284		3.5	164	1.5	21.7	158	97.4
L828285		3.7	183	1.5	21.6	156	110.5
L828286		3.5	182	1.5	21.1	149	108.5
L828287		2.1	42	0.6	6.4	95	28.9
L828288		2.4	67	0.9	9.9	271	47.2
L828289		1.9	17	0.7	2.8	220	11.8
L828290		1.9	21	0.8	3.5	217	14.1
L828291		1.3	9	0.6	1.3	236	4.8
L828292		3.4	101	5.6	13.6	2090	69.1
L828293		3.3	131	1.9	21.0	468	97.2
L828294		3.3	152	1.8	20.6	643	112.0
L828295		2.7	131	1.5	21.0	308	105.5
L828296		2.7	129	1.4	21.5	212	97.7
L828297		2.7	125	1.4	20.6	245	100.0
L828298		2.8	128	1.5	20.1	252	100.5
L828299		2.9	147	1.5	21.1	128	104.5
L828300		2.9	144	1.5	20.9	127	101.5
L828301		2.7	137	1.4	20.8	138	98.8
L828302		2.9	151	1.5	20.8	115	101.5
L828303		2.8	147	1.5	19.9	125	99.6
L828304		2.7	133	1.5	20.1	136	94.6
L828305		3.1	179	1.4	22.2	146	101.5
L828306		4.0	188	1.6	23.1	135	112.0
L828307		4.0	186	1.7	22.7	156	113.5
L828308		3.2	167	1.6	22.6	154	106.5
L828309		3.0	161	1.5	21.2	137	105.5
L828310		3.0	160	1.5	19.9	126	99.4
L828311		2.9	172	1.5	20.3	146	101.5
L828312		2.8	171	1.5	18.6	145	94.3
L828313		3.0	173	1.6	20.8	144	104.0
L828314		4.1	157	1.5	17.1	221	96.4
L828315		4.0	181	1.5	20.5	164	104.5
L828316		4.2	189	1.5	20.3	173	103.5
L828317		3.3	186	1.6	21.1	173	109.5
L828318		3.3	172	1.6	21.1	173	104.5
L828319		3.2	168	1.4	20.6	163	93.7
L828320		3.2	174	1.4	21.2	149	100.5
L828321		2.8	151	1.3	18.0	209	89.8



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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828322		0.64	<0.01	0.13	8.15	314	1050	1.71	0.24	1.62	0.27	67.0	17.5	82	8.53	34.4
L828323		0.45	<0.01	0.17	6.06	352	970	1.46	0.18	0.30	0.33	54.7	18.3	77	4.03	33.8
L828324		0.82	<0.01	0.27	6.62	237	880	1.62	0.22	0.48	0.44	62.0	18.6	81	5.77	37.8
L828325		0.99	<0.01	0.22	5.96	218	750	1.47	0.21	0.67	0.40	55.9	16.9	76	4.93	36.0
L828326		1.09	<0.01	0.13	6.81	122.5	2770	1.66	0.24	2.06	0.36	66.6	17.6	76	5.91	47.2
L828327		1.01	<0.01	0.18	6.36	54.3	690	1.53	0.23	2.38	0.29	66.4	17.8	69	5.44	42.6
L828328		1.31	<0.01	0.18	8.00	42.9	730	1.99	0.27	1.84	0.21	71.8	19.2	85	8.22	42.5
L828329		1.03	<0.01	0.14	8.61	32.1	750	2.11	0.27	1.04	0.18	74.3	20.0	90	9.03	39.3
L828330		0.89	<0.01	0.15	8.96	33.8	750	2.18	0.27	0.57	0.20	76.7	20.6	92	10.00	35.9
L828331		0.98	<0.01	0.14	8.96	26.9	750	2.19	0.28	0.61	0.15	72.2	20.3	96	9.65	32.8
L828332		0.83	<0.01	0.18	7.63	68.8	740	1.91	0.25	1.12	0.19	67.4	17.6	84	7.82	37.7
L828333		0.86	<0.01	0.14	8.87	27.5	750	2.11	0.27	0.93	0.19	77.4	18.8	91	9.63	35.5
L828334		0.70	<0.01	0.20	6.61	21.4	680	1.51	0.25	1.83	0.39	62.3	19.7	74	4.30	55.5
L828335		0.76	<0.01	0.21	7.04	20.3	710	1.62	0.24	3.05	0.33	71.1	18.4	74	5.61	48.9
L828336		0.73	<0.01	0.22	6.70	21.1	820	1.50	0.23	4.30	0.31	64.8	17.3	70	6.01	45.9
L828337		0.57	<0.01	0.14	9.03	17.4	620	2.28	0.27	1.28	0.14	80.2	20.0	95	8.74	34.2
L828338		0.79	<0.01	0.10	8.98	14.1	540	2.19	0.26	0.70	0.09	77.4	18.9	93	8.34	34.8
L828339		0.73	<0.01	0.11	8.87	13.4	530	2.30	0.26	1.05	0.13	78.3	18.6	92	8.24	29.0
L828340		0.76	<0.01	0.11	8.32	12.0	460	1.96	0.23	0.97	0.12	74.3	17.8	87	7.20	25.6
L828341		0.77	<0.01	0.11	8.38	11.9	480	2.02	0.24	0.75	0.09	71.7	17.8	88	7.31	30.1
L828342		0.67	<0.01	0.12	9.48	13.9	600	2.51	0.29	0.38	0.09	60.8	20.2	98	8.63	32.2
L828343		0.81	<0.01	0.11	9.40	14.2	570	2.52	0.29	0.36	0.12	67.2	20.2	98	8.68	33.8



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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828322		4.83	21.2	0.21	2.6	0.10	0.074	1.94	34.1	91.3	1.43	614	1.52	0.23	11.5	56.7
L828323		4.99	17.20	0.20	2.2	0.05	0.064	1.56	27.4	67.8	1.02	881	1.38	0.42	8.8	49.5
L828324		4.47	17.95	0.19	2.5	0.17	0.064	1.74	31.2	65.9	0.96	528	1.73	0.42	10.8	50.9
L828325		4.34	16.50	0.18	2.3	0.22	0.061	1.59	28.5	60.7	0.96	460	1.33	0.40	10.2	47.1
L828326		4.86	17.20	0.12	2.3	0.10	0.064	1.83	34.7	54.9	1.09	600	1.34	0.48	11.9	49.1
L828327		4.76	17.05	0.21	2.6	0.09	0.061	1.68	33.7	57.9	1.19	589	1.35	0.50	13.1	45.4
L828328		4.84	21.8	0.22	2.8	0.08	0.073	2.24	36.4	72.1	1.29	589	1.38	0.44	13.9	54.0
L828329		4.79	24.0	0.23	2.8	0.04	0.074	2.35	37.6	81.0	1.31	637	1.46	0.42	13.5	60.0
L828330		4.95	25.4	0.24	3.0	0.04	0.084	2.51	38.4	84.7	1.22	484	1.90	0.40	14.0	63.9
L828331		4.96	25.2	0.22	2.9	0.04	0.079	2.59	35.8	83.5	1.26	556	2.13	0.38	13.2	64.6
L828332		4.57	20.4	0.20	2.6	0.12	0.069	2.07	35.0	72.0	1.19	557	1.35	0.41	11.8	52.1
L828333		4.83	24.1	0.22	2.9	0.03	0.079	2.45	39.8	83.9	1.29	621	1.41	0.43	12.9	58.3
L828334		5.16	17.85	0.20	2.5	0.09	0.070	1.68	31.3	61.8	1.28	590	1.45	0.61	11.6	48.0
L828335		4.82	18.75	0.22	2.7	0.11	0.068	1.90	35.7	65.6	1.13	631	1.35	0.51	12.8	47.0
L828336		4.85	17.85	0.20	2.5	0.12	0.066	1.83	33.1	59.2	1.37	559	1.35	0.48	12.6	45.2
L828337		4.83	25.0	0.23	2.8	0.04	0.078	2.45	39.7	83.2	1.39	660	0.99	0.46	13.6	56.5
L828338		4.79	23.9	0.20	2.8	0.02	0.073	2.38	39.0	86.7	1.30	559	0.82	0.44	12.8	54.7
L828339		4.74	23.7	0.21	2.7	0.02	0.074	2.43	39.1	84.6	1.31	579	0.80	0.43	12.7	53.5
L828340		4.97	21.5	0.20	2.7	0.02	0.063	2.17	37.2	82.0	1.35	878	0.86	0.44	11.9	52.1
L828341		4.60	22.3	0.19	2.7	0.02	0.070	2.25	35.8	84.3	1.28	706	0.78	0.43	12.1	52.1
L828342		4.80	25.7	0.20	2.8	0.03	0.081	2.65	28.0	92.1	1.23	408	0.92	0.48	12.8	60.0
L828343		4.84	25.9	0.20	2.8	0.03	0.082	2.63	31.5	91.3	1.25	406	0.95	0.48	13.1	60.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828322		960	21.7	115.5	0.002	1.58	0.72	17.2	2	2.2	352	0.76	0.05	10.9	0.401	1.97
L828323		720	14.6	88.1	0.003	0.05	0.60	13.9	2	1.7	74.0	0.58	0.05	8.6	0.336	0.60
L828324		780	17.3	105.0	0.004	0.09	0.72	14.7	3	1.9	75.7	0.70	0.06	9.2	0.383	0.75
L828325		810	15.2	90.1	0.004	0.08	0.64	13.6	3	1.7	76.5	0.66	0.05	8.4	0.360	0.64
L828326		880	18.8	97.2	0.004	0.27	0.83	16.7	2	2.1	144.0	0.83	0.06	10.2	0.446	0.59
L828327		830	18.0	90.9	0.003	0.47	0.74	14.4	2	1.9	135.5	0.87	0.06	10.3	0.450	0.56
L828328		890	19.9	125.0	0.002	0.93	0.73	17.1	2	2.3	132.5	0.90	0.06	11.3	0.474	0.80
L828329		890	19.7	138.0	0.002	1.27	0.74	18.5	2	2.5	104.5	0.86	0.05	11.7	0.456	0.90
L828330		870	21.8	154.5	0.002	1.84	0.76	19.0	2	2.7	99.9	0.86	0.06	11.8	0.459	1.00
L828331		800	20.5	151.0	0.002	1.81	0.74	18.5	2	2.6	96.5	0.86	0.07	11.4	0.455	1.05
L828332		820	18.4	125.5	0.002	1.07	0.64	16.2	2	2.4	108.5	0.78	0.06	10.9	0.409	0.79
L828333		930	19.6	148.5	0.002	1.58	0.66	18.4	2	2.5	102.0	0.88	0.05	12.2	0.444	0.97
L828334		830	17.3	88.4	0.002	0.06	0.75	17.0	2	1.8	106.0	0.77	0.08	9.2	0.457	0.56
L828335		880	17.8	102.0	0.003	0.08	0.73	16.3	2	2.0	155.5	0.84	0.07	10.4	0.458	0.64
L828336		840	17.6	99.6	0.003	0.55	0.75	15.3	2	1.9	253	0.83	0.06	9.8	0.434	0.64
L828337		780	19.4	146.0	0.002	0.87	0.66	18.5	2	2.7	116.5	0.88	0.05	12.2	0.443	0.92
L828338		720	17.7	148.5	<0.002	0.93	0.56	17.6	2	2.7	94.5	0.86	<0.05	12.2	0.432	0.87
L828339		720	16.5	144.0	<0.002	0.91	0.54	17.3	2	2.6	101.5	0.85	0.05	11.7	0.431	0.87
L828340		690	18.0	129.5	<0.002	0.97	0.57	15.8	1	2.4	90.0	0.79	<0.05	11.1	0.409	0.79
L828341		710	17.7	129.0	<0.002	0.90	0.57	16.1	1	2.4	90.4	0.83	0.05	11.4	0.420	0.81
L828342		710	23.9	131.0	<0.002	1.31	0.70	18.5	2	2.9	102.0	0.86	0.05	10.1	0.443	1.03
L828343		690	23.2	137.0	<0.002	1.33	0.68	18.2	2	2.8	100.5	0.86	0.05	10.7	0.441	1.02





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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
L828322		3.0	155	1.3	17.9	205	93.9
L828323		2.5	128	1.0	16.4	129	78.2
L828324		3.1	144	1.2	19.3	141	89.3
L828325		2.7	128	1.1	18.5	132	81.2
L828326		2.6	136	1.3	20.8	128	93.9
L828327		2.6	122	1.4	19.9	114	94.4
L828328		2.8	154	1.5	20.8	129	102.0
L828329		2.9	163	1.4	21.4	139	103.5
L828330		3.0	174	1.5	21.9	170	110.5
L828331		2.9	181	1.5	19.7	149	104.0
L828332		2.8	146	1.4	19.4	127	94.3
L828333		3.0	167	1.5	20.7	171	103.0
L828334		2.4	147	1.2	20.4	141	88.0
L828335		2.6	139	1.3	21.2	137	98.6
L828336		2.6	132	1.3	20.0	116	92.1
L828337		2.8	152	1.5	21.5	122	104.5
L828338		2.6	146	1.5	19.8	125	98.7
L828339		2.6	146	1.4	19.4	137	97.8
L828340		2.4	134	1.3	18.9	136	95.4
L828341		2.5	137	1.4	18.8	124	94.8
L828342		2.6	163	1.4	17.3	125	97.7
L828343		2.6	160	1.5	17.9	134	98.6



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Page: Appendix 1  
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Finalized Date: 22- MAY- 2012  
Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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Page: 1  
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 Account: RCM

**CERTIFICATE WH12100502**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D  
 This report is for 81 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
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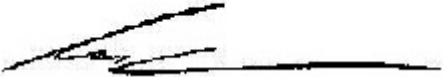
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828344		0.52	<0.01	0.18	6.19	15.7	720	1.39	0.21	4.73	0.33	57.6	16.8	67	4.41	52.1
L828345		0.84	<0.01	0.13	7.17	15.4	710	1.63	0.26	3.80	0.30	65.8	16.8	77	5.09	58.6
L828346		0.57	<0.01	0.15	6.37	15.6	680	1.53	0.18	3.83	0.27	68.7	16.1	82	6.09	42.4
L828347		0.57	<0.01	0.14	7.55	16.8	780	1.79	0.27	3.22	0.31	73.8	17.1	82	7.19	50.0
L828348		0.79	<0.01	0.13	7.67	16.3	700	1.77	0.25	2.72	0.25	72.1	14.4	86	6.74	45.9
L828349		0.78	<0.01	0.11	7.95	19.3	760	1.78	0.26	2.56	0.24	69.8	15.0	86	6.68	45.0
L828350		0.72	<0.01	0.11	8.25	14.6	700	1.89	0.28	2.32	0.20	76.3	15.8	88	6.97	43.1
L828351		0.74	<0.01	0.09	8.01	13.7	710	1.96	0.28	2.44	0.22	69.6	16.2	89	6.85	43.5
L828352		0.71	<0.01	0.10	7.51	16.3	650	1.78	0.28	3.37	0.22	74.1	14.9	89	6.82	43.5
L828353		0.63	<0.01	0.11	7.66	17.4	710	1.82	0.27	4.02	0.26	74.6	15.7	77	7.14	49.3
L828354		0.21	<0.01	0.10	7.39	16.0	660	1.76	0.25	3.95	0.26	74.3	15.1	88	6.73	46.1
L828355		0.52	<0.01	0.12	6.55	14.7	670	1.47	0.22	4.05	0.33	63.0	15.3	71	4.88	55.2
L828356		0.43	<0.01	0.11	7.83	15.3	720	1.73	0.25	3.57	0.25	68.4	16.1	81	6.49	48.6
L828357		0.84	<0.01	0.11	8.34	15.1	720	1.96	0.28	2.09	0.27	77.0	16.1	87	7.25	43.5
L828358		0.44	<0.01	0.13	7.53	14.7	670	1.83	0.23	5.94	0.25	68.9	15.5	76	6.38	44.7
L828359		0.56	<0.01	0.10	7.91	13.9	650	1.80	0.29	4.49	0.21	74.1	14.2	75	6.69	43.7
L828360		0.43	<0.01	0.08	7.42	14.7	560	1.67	0.22	3.21	0.29	62.6	13.4	92	6.54	31.3
L828361		0.64	<0.01	0.08	7.66	14.9	660	1.80	0.25	3.84	0.19	62.0	14.1	78	6.83	34.1
L828362		0.14	<0.01	0.07	6.73	11.9	490	1.32	0.18	3.49	0.22	55.3	15.7	92	5.04	46.0
L828363		0.75	<0.01	0.11	7.57	15.1	680	1.81	0.24	1.13	0.29	69.7	16.0	83	6.27	48.6
L828364		0.55	<0.01	0.10	8.29	12.1	670	2.04	0.30	2.12	0.18	77.1	14.8	80	7.32	41.6
L828365		0.55	<0.01	0.10	7.51	17.3	760	1.78	0.28	3.70	0.32	88.0	17.3	78	7.17	47.6
L828366		0.62	<0.01	0.10	6.55	18.9	560	1.47	0.23	4.48	0.27	75.2	16.5	68	5.11	46.4
L828367		0.65	<0.01	0.11	6.52	15.5	730	1.42	0.23	4.32	0.27	64.7	14.9	71	5.09	43.9
L828368		0.75	<0.01	0.24	6.91	18.6	390	1.68	0.21	2.58	0.15	73.5	13.5	69	5.73	25.3
L828369		0.58	<0.01	0.09	6.61	17.4	360	1.52	0.19	2.58	0.14	72.5	12.4	66	5.25	22.6
L828370		0.71	<0.01	0.09	7.51	20.7	420	1.92	0.25	2.71	0.17	79.1	14.9	73	6.77	25.8
L828371		0.55	<0.01	0.06	6.57	18.0	370	1.62	0.18	2.67	0.11	58.4	11.6	65	5.54	23.5
L828372		0.83	<0.01	0.05	7.41	18.6	380	1.77	0.19	2.56	0.11	60.7	11.9	74	5.99	21.6
L828373		0.66	<0.01	0.05	7.37	19.8	380	1.79	0.21	2.52	0.12	64.1	12.4	75	6.45	24.0
L828374		0.45	<0.01	0.08	8.73	31.2	660	2.13	0.28	0.39	0.18	80.1	20.4	96	7.82	39.7
L828375		0.43	<0.01	0.07	9.65	1090	580	2.26	0.30	0.32	0.11	77.8	18.3	105	8.32	35.4
L828376		0.58	<0.01	0.08	9.60	138.0	570	1.99	0.28	0.37	0.07	83.6	13.7	101	9.23	31.1
L828377		0.53	<0.01	0.06	9.24	34.0	570	2.17	0.28	0.47	0.09	76.9	15.8	94	9.01	28.4
L828378		0.42	<0.01	0.06	9.13	23.6	570	2.25	0.26	0.62	0.27	76.3	17.0	91	8.79	33.7
L828379		0.63	<0.01	0.10	9.15	19.3	570	2.38	0.27	0.55	0.11	80.4	19.3	94	8.97	37.8
L828380		0.63	<0.01	0.06	8.77	19.8	540	2.16	0.27	0.59	0.09	80.6	18.2	90	8.91	30.4
L828381		0.59	<0.01	0.11	9.12	18.6	550	2.76	0.28	1.11	0.15	80.4	21.2	91	9.64	31.4
L828382		0.69	<0.01	0.11	9.14	21.8	580	2.88	0.29	0.84	0.16	82.1	22.8	93	10.40	34.2
L828383		0.33	<0.01	0.14	8.73	51.1	720	2.47	0.25	0.33	0.30	76.7	23.7	94	12.65	39.4

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 Finalized Date: 17- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828344		4.58	16.10	0.19	2.3	0.10	0.062	1.62	29.4	56.6	1.25	631	1.13	0.53	10.5	40.0
L828345		5.15	17.50	0.13	2.9	0.1	0.073	1.88	32.2	60.1	1.49	682	1.27	0.63	11.4	47.0
L828346		4.46	15.85	0.14	2.6	0.08	0.066	1.64	33.6	60.0	1.42	579	1.39	0.47	11.5	43.1
L828347		4.91	18.60	0.12	2.7	0.1	0.078	2.00	34.9	68.9	1.49	664	1.38	0.50	11.7	50.2
L828348		4.78	18.75	0.15	2.9	0.1	0.072	2.04	32.5	64.0	1.27	496	1.43	0.48	11.2	47.4
L828349		4.76	19.00	0.13	3.0	<0.1	0.072	2.13	33.7	73.5	1.29	562	1.50	0.49	11.8	51.3
L828350		4.93	20.0	0.15	2.8	<0.1	0.074	2.17	34.7	71.8	1.36	570	1.09	0.47	11.5	53.1
L828351		4.89	20.6	0.14	2.7	0.06	0.077	2.14	32.1	68.9	1.38	558	1.36	0.47	12.5	52.6
L828352		4.64	18.60	0.15	2.8	0.07	0.070	2.02	35.0	64.9	1.34	597	1.86	0.50	11.8	45.0
L828353		4.72	19.20	0.13	2.8	0.1	0.073	2.12	35.7	63.5	1.41	624	1.89	0.52	12.8	45.2
L828354		4.54	18.70	0.13	2.9	0.07	0.068	2.01	34.9	64.4	1.32	651	1.80	0.47	11.8	43.9
L828355		4.72	16.40	0.12	2.6	0.08	0.065	1.67	30.7	55.1	1.27	705	1.15	0.53	10.2	44.5
L828356		4.91	19.00	0.15	2.9	0.1	0.070	2.08	33.1	66.8	1.10	609	1.29	0.47	11.3	49.2
L828357		4.94	20.8	0.14	2.7	0.06	0.076	2.18	36.3	71.1	1.19	571	1.41	0.47	12.2	52.1
L828358		4.75	18.60	0.15	2.7	0.07	0.069	2.01	34.4	64.4	1.46	559	1.19	0.47	11.4	47.0
L828359		4.50	19.25	0.13	2.6	0.06	0.061	2.10	35.5	66.3	1.29	617	0.95	0.40	11.6	41.8
L828360		4.39	17.25	0.12	2.4	0.05	0.067	1.99	30.1	62.2	1.25	598	1.15	0.48	10.2	44.1
L828361		4.55	17.95	0.13	2.5	0.05	0.064	2.09	29.5	63.1	1.37	592	1.25	0.50	11.4	46.1
L828362		5.01	15.45	0.11	2.2	0.11	0.061	1.56	27.0	53.8	1.76	764	1.80	0.68	9.1	45.7
L828363		4.97	18.45	0.11	2.6	0.09	0.072	1.96	33.4	65.5	1.09	566	1.16	0.47	10.9	48.6
L828364		4.59	20.7	0.13	2.7	<0.1	0.067	2.27	35.5	66.4	0.84	554	0.89	0.42	12.6	43.5
L828365		4.51	19.10	0.14	3.0	0.10	0.076	2.08	41.0	60.0	1.14	484	1.40	0.52	12.2	45.2
L828366		4.47	16.50	0.14	2.8	0.09	0.065	1.70	35.8	52.5	1.49	621	2.53	0.57	11.3	42.6
L828367		4.54	15.55	0.12	2.7	0.09	0.054	1.72	33.1	51.3	1.45	601	1.73	0.56	10.1	38.9
L828368		3.71	16.85	0.12	2.7	0.04	0.062	1.87	34.9	50.8	1.36	550	1.15	0.70	11.1	38.9
L828369		3.54	15.60	0.11	2.7	<0.1	0.053	1.75	34.8	49.7	1.36	558	1.02	0.72	10.4	36.8
L828370		3.95	18.60	0.12	2.8	0.03	0.063	2.15	36.7	61.6	1.45	599	1.86	0.65	11.4	43.4
L828371		3.66	15.80	0.12	2.2	0.03	0.054	1.83	27.0	52.0	1.36	558	1.86	0.64	9.7	37.5
L828372		3.72	17.45	0.13	2.6	0.02	0.060	2.02	28.2	55.6	1.33	540	1.34	0.76	11.2	40.0
L828373		3.81	18.35	0.13	2.8	0.03	0.065	2.12	30.8	59.6	1.38	555	1.32	0.75	12.1	42.4
L828374		5.35	21.3	0.15	2.6	0.05	0.073	2.25	35.9	79.9	0.92	690	1.18	0.42	12.2	66.3
L828375		5.64	24.0	0.18	3.0	<0.1	0.085	2.53	36.1	80.2	1.12	428	1.53	0.41	13.0	61.7
L828376		5.13	24.3	0.16	3.0	0.03	0.083	2.46	39.0	78.7	1.12	294	1.27	0.39	12.9	55.2
L828377		4.59	23.0	0.15	3.0	0.02	0.082	2.49	37.9	76.1	1.21	291	0.78	0.41	13.3	58.9
L828378		4.81	23.0	0.16	2.8	<0.1	0.074	2.51	35.9	72.9	1.24	441	1.01	0.38	12.6	63.1
L828379		4.86	24.2	0.18	3.3	<0.1	0.085	2.46	39.9	74.3	1.27	437	1.34	0.40	13.0	69.3
L828380		4.72	23.5	0.17	3.0	0.1	0.077	2.31	41.1	69.9	1.22	505	1.24	0.38	12.2	63.5
L828381		5.04	24.4	0.16	2.9	0.03	0.082	2.41	42.3	71.2	1.42	806	1.09	0.37	12.2	61.3
L828382		5.02	25.1	0.19	3.0	0.03	0.089	2.59	41.8	71.3	1.33	665	1.24	0.38	13.3	66.4
L828383		4.72	22.5	0.18	2.7	0.06	0.077	2.26	39.5	110.5	0.57	1020	1.26	0.35	11.4	59.2

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 Finalized Date: 17- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828344		720	15.3	80.5	0.002	0.04	0.66	14.7	2	1.7	197.0	0.71	0.07	8.2	0.432	0.51
L828345		900	18.2	97.2	0.003	0.06	0.80	18.7	2	2.1	153.0	0.87	0.07	10.8	0.503	0.59
L828346		810	17.0	97.8	0.003	0.47	0.83	15.0	2	2.0	166.5	0.78	0.08	9.4	0.405	0.57
L828347		860	18.4	111.5	0.005	0.63	0.74	18.5	2	2.2	159.5	0.86	0.09	10.6	0.474	0.70
L828348		850	18.6	110.5	<0.002	0.51	0.75	17.8	2	2.2	146.0	0.86	0.10	10.6	0.463	0.76
L828349		840	18.0	122.0	0.002	0.56	0.76	18.1	2	2.2	154.0	0.89	0.06	11.0	0.472	0.79
L828350		830	19.4	118.5	<0.002	0.66	0.71	18.9	2	2.5	130.5	0.88	0.09	11.1	0.463	0.79
L828351		810	19.3	107.0	0.002	0.60	0.73	18.6	2	2.4	136.0	0.92	0.09	11.0	0.463	0.80
L828352		820	17.5	112.0	0.002	0.58	0.70	16.8	1	2.2	138.5	0.89	0.06	11.7	0.453	0.69
L828353		840	19.3	108.5	0.003	0.63	0.76	16.8	2	2.2	153.5	0.91	0.10	11.3	0.472	0.68
L828354		780	18.5	114.0	0.002	0.48	0.73	16.5	2	2.3	156.0	0.90	0.09	11.6	0.444	0.66
L828355		860	16.4	91.0	0.002	0.05	0.73	17.7	2	1.8	158.0	0.76	0.11	9.4	0.451	0.53
L828356		860	18.4	112.0	<0.002	0.08	0.71	17.4	2	2.1	171.0	0.85	0.08	10.8	0.476	0.71
L828357		870	19.4	123.0	0.003	0.21	0.77	18.6	2	2.4	126.5	0.87	0.10	11.6	0.476	0.78
L828358		790	17.1	108.5	0.002	0.49	0.72	17.5	2	2.2	207	0.81	0.09	10.2	0.445	0.64
L828359		730	19.2	101.5	0.003	0.46	0.65	16.2	2	2.4	183.5	0.90	0.07	11.9	0.441	0.67
L828360		1010	17.5	96.6	<0.002	0.90	0.54	14.8	2	2.1	139.0	0.78	0.06	10.0	0.408	0.72
L828361		1030	18.9	90.7	<0.002	0.91	0.59	16.2	2	2.2	165.5	0.82	0.07	10.3	0.423	0.77
L828362		810	15.1	82.6	<0.002	0.76	0.51	17.1	1	1.8	112.5	0.70	0.08	8.0	0.459	0.55
L828363		810	18.5	115.0	0.002	0.05	0.73	17.4	2	2.1	102.5	0.80	0.08	10.7	0.460	0.73
L828364		700	21.2	107.5	0.003	0.07	0.64	17.1	2	2.5	148.0	0.98	0.08	12.3	0.463	0.69
L828365		910	18.7	125.5	0.004	0.24	0.74	16.7	2	2.3	151.0	0.85	0.08	11.7	0.458	0.71
L828366		900	16.3	102.5	0.003	0.78	0.65	15.9	1	2.0	157.0	0.74	0.07	10.0	0.425	0.63
L828367		800	15.9	98.0	0.002	0.57	0.60	14.7	1	1.8	145.0	0.71	0.09	9.7	0.430	0.60
L828368		1300	16.0	112.5	0.003	1.15	0.45	13.7	1	2.1	106.5	0.76	0.06	10.3	0.406	0.78
L828369		1340	14.9	103.5	0.002	1.18	0.43	12.5	1	2.0	105.5	0.72	0.06	10.2	0.380	0.73
L828370		1630	17.4	130.5	0.002	1.59	0.49	14.6	1	2.3	119.0	0.78	0.06	10.9	0.413	0.94
L828371		1440	14.9	99.7	<0.002	1.36	0.43	13.0	2	2.0	103.5	0.71	0.05	9.0	0.376	0.76
L828372		1620	15.2	99.0	<0.002	1.43	0.41	13.7	2	2.2	105.5	0.85	0.06	9.6	0.414	0.81
L828373		1580	16.2	107.0	<0.002	1.49	0.46	13.9	2	2.4	108.0	0.85	0.06	10.4	0.434	0.83
L828374		1010	21.6	133.5	<0.002	0.03	0.68	18.6	2	2.4	105.5	0.88	0.07	11.9	0.477	0.93
L828375		860	22.7	148.5	0.003	0.23	0.89	20.3	2	2.7	94.7	0.94	0.07	12.4	0.494	1.00
L828376		900	23.3	154.5	0.002	1.36	0.76	20.7	2	2.8	101.0	0.95	0.09	13.1	0.499	0.98
L828377		1030	15.6	151.0	<0.002	1.57	0.58	19.9	2	2.7	93.5	0.96	0.07	12.4	0.494	0.97
L828378		940	19.7	145.0	0.002	1.88	0.70	20.1	2	2.7	88.1	0.88	0.07	11.7	0.483	0.97
L828379		840	24.4	148.5	<0.002	2.00	0.69	18.7	1	3.0	86.1	0.91	0.07	12.8	0.460	1.13
L828380		800	21.3	147.0	<0.002	1.95	0.64	17.7	1	2.9	84.0	0.84	0.05	12.6	0.433	1.04
L828381		880	18.0	151.0	<0.002	1.75	0.62	21.3	3	3.0	94.0	0.89	0.07	12.1	0.452	1.01
L828382		930	21.4	155.0	0.002	2.10	0.70	22.0	3	3.1	93.0	0.94	0.07	12.3	0.480	1.04
L828383		960	18.6	151.5	<0.002	0.05	0.72	20.4	3	2.7	132.5	0.84	0.06	11.4	0.425	1.25



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828344		2.1	133	1.1	18.1	109	81.3
L828345		2.7	152	1.3	23.8	128	103.5
L828346		2.5	130	1.2	20.6	123	91.2
L828347		2.8	149	1.3	23.6	166	92.5
L828348		2.8	153	1.3	21.7	139	99.4
L828349		2.9	155	1.3	22.4	142	98.9
L828350		2.8	154	1.3	22.9	133	89.8
L828351		2.7	152	1.4	21.7	129	93.5
L828352		2.9	133	1.3	24.7	112	97.6
L828353		2.8	137	1.3	22.5	119	97.6
L828354		2.9	128	1.3	25.2	115	100.5
L828355		2.6	136	1.1	21.7	121	85.5
L828356		2.8	151	1.3	23.1	134	112.0
L828357		2.9	150	1.4	23.3	145	96.9
L828358		2.9	139	1.3	22.1	126	95.6
L828359		2.8	126	1.3	21.1	107	89.6
L828360		2.5	120	1.2	21.2	310	80.5
L828361		2.6	124	1.3	22.4	145	89.0
L828362		2.0	138	1.6	20.0	113	73.3
L828363		2.5	146	1.2	22.4	130	90.7
L828364		2.6	130	1.5	22.2	115	95.5
L828365		3.3	132	1.3	22.5	118	101.0
L828366		3.3	118	1.1	24.4	111	85.7
L828367		3.0	126	1.1	19.5	107	84.2
L828368		3.1	110	1.2	22.4	102	86.0
L828369		3.1	104	1.1	21.8	95	86.6
L828370		3.3	117	1.3	25.2	113	83.7
L828371		2.6	103	1.2	23.9	87	79.6
L828372		2.5	114	1.3	26.3	94	91.3
L828373		2.8	119	1.4	26.4	103	96.6
L828374		3.0	155	1.4	25.0	159	92.6
L828375		3.7	175	1.6	22.9	178	102.0
L828376		3.5	174	1.6	21.8	112	102.0
L828377		3.6	163	1.5	25.0	145	103.5
L828378		3.7	164	1.5	23.3	259	101.0
L828379		3.5	170	1.4	19.7	145	94.5
L828380		3.1	159	1.3	19.8	113	88.8
L828381		3.0	162	1.6	20.9	146	96.2
L828382		3.3	174	1.6	21.6	149	104.5
L828383		3.1	169	1.4	20.7	150	90.2



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828384		0.44	<0.01	0.18	6.55	189.0	930	1.97	0.23	0.98	0.45	70.7	17.4	75	5.63	44.4
L828385		0.59	<0.01	0.23	6.13	487	960	1.77	0.21	0.93	0.52	61.1	13.2	71	6.45	40.8
L828386		0.03	<0.01	0.15	5.47	517	590	1.40	0.17	3.89	0.28	53.9	15.1	69	3.77	51.4
L828387		0.75	<0.01	0.14	5.40	652	500	1.47	0.16	3.66	0.34	58.0	15.6	63	3.68	47.0
L828388		0.70	<0.01	0.11	7.16	55.4	400	2.23	0.21	1.68	0.06	75.2	16.1	90	6.03	25.3
L828389		0.75	<0.01	0.11	7.92	57.9	440	2.56	0.24	1.66	0.06	76.7	16.7	87	6.72	28.4
L828390		0.66	<0.01	0.10	7.84	23.0	430	2.46	0.23	1.41	0.07	81.5	16.9	85	6.96	27.6
L828391		0.69	<0.01	0.10	8.04	27.8	490	2.59	0.24	1.42	0.07	83.3	17.2	90	7.13	26.1
L828392		0.85	<0.01	0.19	6.69	88.4	740	1.83	0.22	3.84	0.38	71.7	20.0	72	5.21	52.1
L828393		0.63	<0.01	0.19	6.35	40.4	750	1.74	0.21	3.85	0.37	68.0	18.7	68	5.08	48.5
L828394		0.87	<0.01	0.15	6.87	43.1	500	2.00	0.20	2.67	0.19	70.8	17.9	72	5.52	35.9
L828395		0.65	<0.01	0.12	6.58	24.6	390	2.02	0.18	2.77	0.11	65.3	16.0	68	5.11	23.9
L828396		0.80	<0.01	0.10	6.24	9.1	310	1.87	0.17	3.21	0.13	61.5	13.7	64	4.50	24.0
L828397		0.80	<0.01	0.11	6.92	13.4	400	2.31	0.20	2.83	0.10	60.0	16.9	73	5.77	31.1
L828398		0.82	<0.01	0.08	7.20	10.9	420	2.26	0.20	1.86	0.14	67.9	17.3	73	6.27	28.3
L828399		0.83	<0.01	0.10	6.79	9.4	390	1.98	0.18	1.96	0.14	61.8	17.6	70	5.20	31.5
L828400		1.03	<0.01	0.14	6.39	68.8	480	1.83	0.18	2.36	0.20	60.4	17.1	68	4.93	33.5
L828401		1.05	<0.01	0.14	6.09	44.9	470	1.84	0.17	4.27	0.24	61.4	15.6	62	4.88	31.6
L828402		1.11	<0.01	0.09	7.77	13.0	430	2.69	0.22	1.63	0.08	77.0	16.6	78	6.90	26.5
L828403		0.69	<0.01	0.17	6.08	13.7	530	1.67	0.21	2.26	0.36	63.6	19.9	65	3.96	55.2
L828404		0.82	<0.01	0.20	7.36	15.4	810	2.08	0.24	2.73	0.30	74.6	19.7	78	6.51	46.8
L828405		0.67	<0.01	0.18	7.18	14.1	700	1.98	0.23	3.97	0.34	71.5	19.7	73	6.60	48.2
L828406		0.65	<0.01	0.16	8.09	11.1	600	2.42	0.33	2.97	0.22	84.6	19.4	80	7.48	48.2
L828407		0.54	<0.01	0.16	8.40	12.5	640	2.43	0.31	2.73	0.25	89.0	19.9	81	7.89	45.2
L828408		0.69	<0.01	0.20	7.48	15.0	720	2.28	0.26	3.37	0.32	76.2	20.5	79	7.40	51.3
L828409		0.79	<0.01	0.23	7.15	13.5	770	2.10	0.24	3.82	0.34	71.4	18.8	81	7.23	49.0
L828410		0.63	<0.01	0.16	7.86	13.3	670	2.56	0.24	1.79	0.28	75.5	19.0	83	7.49	41.6
L828411		0.64	<0.01	0.15	7.83	13.8	680	2.35	0.24	1.71	0.28	71.7	19.1	85	7.49	41.8
L828412		0.87	<0.01	0.19	8.58	13.3	670	2.60	0.27	0.78	0.22	79.7	20.1	96	8.97	40.5
L828413		0.59	<0.01	0.10	8.46	12.4	660	2.58	0.26	1.03	0.18	80.0	19.9	93	8.83	40.1
L828414		0.28	<0.01	0.16	5.96	17.3	630	2.17	0.18	0.36	0.42	59.9	17.4	70	4.23	40.7
L828415		0.55	<0.01	0.17	7.98	12.1	760	2.47	0.32	2.08	0.26	78.4	19.4	78	8.32	52.8
L828416		0.57	<0.01	0.16	8.48	11.9	680	2.64	0.32	0.85	0.20	89.7	19.9	84	9.42	43.5
L828417		0.56	<0.01	0.16	7.92	15.4	760	2.30	0.27	2.74	0.29	75.2	19.5	90	8.90	54.1
L828418		0.72	<0.01	0.13	7.37	14.0	650	1.80	0.24	3.46	0.24	76.3	17.9	83	7.91	45.5
L828419		0.63	<0.01	0.07	7.64	11.6	530	1.75	0.22	1.68	0.16	64.1	16.4	83	6.29	32.5
L828420		0.59	<0.01	0.09	7.10	10.8	500	1.64	0.22	1.89	0.18	64.0	15.2	77	6.16	30.2
L828421		0.78	<0.01	0.04	8.97	8.5	630	2.50	0.28	0.64	0.12	75.2	17.6	95	9.00	34.2
L828422		0.54	<0.01	0.06	8.55	9.5	570	2.18	0.27	0.98	0.14	72.2	17.6	89	7.98	29.6
L828423		0.78	<0.01	0.09	8.55	14.5	610	2.15	0.26	0.91	0.12	72.6	20.7	90	7.75	33.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
L828384		4.17	16.60	0.16	2.6	0.08	0.068	1.75	35.9	58.4	1.03	271	1.63	0.62	11.4	47.2
L828385		3.33	15.20	0.16	2.4	0.11	0.061	1.62	32.1	52.2	1.08	245	1.94	0.68	10.4	44.9
L828386		4.48	13.90	0.14	2.4	0.09	0.061	1.45	27.1	46.6	1.48	444	1.08	0.62	9.3	38.7
L828387		4.42	13.90	0.17	2.3	0.06	0.064	1.36	28.4	53.3	1.26	457	1.73	0.57	9.2	38.7
L828388		4.13	18.00	0.18	2.6	0.03	0.060	1.96	37.7	95.0	1.14	476	1.25	0.46	11.0	45.6
L828389		4.30	19.85	0.17	2.7	0.03	0.068	2.26	38.9	94.3	1.22	460	1.01	0.47	11.7	48.7
L828390		4.23	19.30	0.19	2.8	0.02	0.072	2.29	41.4	70.5	1.17	481	0.89	0.53	12.0	48.5
L828391		4.14	20.4	0.19	2.9	0.02	0.069	2.43	42.5	77.6	1.18	472	1.10	0.53	12.4	49.0
L828392		5.20	16.60	0.18	2.7	0.08	0.072	1.74	36.7	58.2	1.36	620	1.35	0.62	11.8	48.2
L828393		4.69	16.10	0.17	2.6	0.08	0.069	1.71	34.3	54.7	1.44	649	1.36	0.56	11.4	44.3
L828394		4.49	16.85	0.16	2.7	0.05	0.066	1.76	36.2	59.0	1.39	581	0.87	0.69	11.5	46.2
L828395		4.07	16.20	0.17	2.5	0.03	0.063	1.68	32.0	51.6	1.35	744	0.74	0.75	11.4	42.4
L828396		3.86	15.60	0.16	2.6	0.02	0.055	1.59	30.9	49.8	1.58	696	0.64	0.69	10.7	39.4
L828397		3.98	18.10	0.16	2.6	0.02	0.065	1.97	28.8	58.2	1.20	518	0.76	0.69	12.1	46.4
L828398		4.23	17.85	0.16	2.5	0.01	0.066	1.94	34.0	61.6	1.31	468	0.57	0.65	11.6	47.7
L828399		4.49	16.60	0.17	2.4	0.01	0.062	1.71	30.0	57.8	1.42	500	0.47	0.71	10.9	47.6
L828400		4.73	15.65	0.17	2.4	0.05	0.060	1.64	31.0	55.1	1.31	646	0.93	0.63	10.0	43.1
L828401		3.91	15.05	0.17	2.3	0.05	0.059	1.59	30.7	51.5	1.18	509	0.80	0.60	10.2	41.8
L828402		3.71	20.2	0.18	2.7	0.02	0.070	2.31	38.2	56.5	1.19	491	1.07	0.66	13.2	49.1
L828403		5.13	15.05	0.17	2.6	0.08	0.069	1.52	31.7	50.5	1.06	726	1.11	0.58	10.6	47.4
L828404		4.89	17.90	0.18	2.9	0.07	0.073	1.96	37.7	59.4	1.14	695	1.74	0.54	12.0	49.6
L828405		4.78	17.70	0.19	2.9	0.08	0.070	1.92	36.8	58.9	1.22	635	1.62	0.54	11.5	47.2
L828406		4.77	21.1	0.17	2.9	0.07	0.074	2.16	42.7	71.4	1.25	613	1.47	0.39	13.9	43.7
L828407		4.83	21.0	0.17	3.0	0.06	0.078	2.20	45.8	72.9	1.37	618	0.99	0.42	13.3	47.7
L828408		4.78	19.15	0.18	2.9	0.10	0.074	1.98	40.3	69.1	1.39	587	1.28	0.50	12.2	49.4
L828409		4.52	17.95	0.18	2.9	0.09	0.067	1.96	37.5	62.9	1.43	545	1.44	0.46	11.5	46.4
L828410		4.61	18.85	0.19	3.0	0.05	0.073	2.15	39.1	87.3	1.25	503	1.56	0.36	12.0	53.7
L828411		4.70	19.15	0.18	2.7	0.05	0.073	2.17	36.5	86.8	1.25	500	1.62	0.36	12.2	54.8
L828412		4.69	21.3	0.19	3.1	0.03	0.083	2.53	40.3	103.0	1.28	426	1.83	0.29	13.3	62.2
L828413		4.74	20.9	0.18	3.1	0.03	0.078	2.45	40.3	103.0	1.34	439	1.87	0.28	13.2	62.7
L828414		4.78	14.35	0.16	2.5	0.07	0.067	1.52	30.6	54.9	0.91	786	1.46	0.53	9.5	64.5
L828415		4.66	20.3	0.19	2.7	0.08	0.075	2.28	39.6	64.6	0.95	781	0.98	0.48	13.4	45.0
L828416		5.11	20.7	0.22	2.9	0.08	0.081	2.40	46.4	65.2	1.00	671	1.06	0.42	13.3	53.7
L828417		4.86	21.6	0.14	2.9	0.09	0.076	2.16	42.7	68.0	1.57	536	1.27	0.49	12.3	54.5
L828418		4.31	19.60	0.17	2.7	0.07	0.073	2.07	36.4	60.4	1.29	541	1.38	0.45	12.0	50.7
L828419		4.46	20.8	0.19	2.6	0.03	0.064	1.94	32.2	68.6	1.29	1090	0.86	0.38	11.6	51.8
L828420		4.34	18.70	0.19	2.6	0.03	0.065	1.79	32.4	65.0	1.29	1200	0.81	0.37	11.3	49.0
L828421		4.42	25.3	0.21	3.0	0.02	0.081	2.43	36.1	84.1	1.26	627	0.54	0.36	13.7	60.0
L828422		4.41	23.3	0.21	2.8	0.02	0.078	2.24	36.1	78.6	1.28	776	0.60	0.34	12.3	56.3
L828423		5.06	23.7	0.21	2.9	0.02	0.076	2.20	36.9	92.7	1.41	664	1.06	0.29	12.2	66.1

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 Finalized Date: 17- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
L828384		860	16.8	99.1	0.002	0.04	1.09	16.9	4	2.2	115.5	0.80	0.08	10.0	0.416	0.71
L828385		800	15.4	97.5	<0.002	0.17	1.17	15.5	5	1.9	111.5	0.77	0.07	9.4	0.377	0.68
L828386		720	13.5	72.8	0.002	0.13	0.68	15.7	3	1.7	151.5	0.67	0.08	7.7	0.400	0.40
L828387		740	14.7	72.0	0.002	0.14	0.74	15.6	3	1.7	146.0	0.66	0.07	7.8	0.391	0.38
L828388		870	14.2	113.0	<0.002	0.30	0.76	15.1	2	2.5	120.5	0.81	0.06	10.9	0.394	0.71
L828389		840	14.1	124.0	<0.002	0.30	0.71	16.9	3	2.6	121.5	0.87	0.06	11.0	0.420	0.79
L828390		770	17.8	132.0	<0.002	0.24	0.65	16.7	3	2.7	110.5	0.84	0.06	11.4	0.411	0.79
L828391		820	19.8	138.5	<0.002	0.26	0.70	16.9	3	2.8	136.0	0.91	0.06	12.1	0.432	0.83
L828392		900	17.0	91.5	0.003	0.30	0.85	17.2	4	2.1	191.0	0.85	0.08	9.9	0.461	0.63
L828393		840	16.7	89.4	0.004	0.56	0.86	16.7	3	2.1	166.5	0.83	0.08	9.5	0.439	0.61
L828394		800	15.6	96.5	0.002	0.30	0.67	16.1	3	2.2	113.0	0.84	0.07	9.9	0.425	0.62
L828395		800	14.3	87.9	<0.002	0.24	0.60	14.1	2	2.2	100.0	0.82	0.05	9.6	0.390	0.55
L828396		670	14.8	80.4	<0.002	0.17	0.46	13.8	2	2.0	85.6	0.77	0.06	9.4	0.375	0.49
L828397		830	15.9	86.5	<0.002	0.19	0.54	15.3	3	2.5	132.0	0.84	0.05	8.8	0.416	0.64
L828398		700	15.3	103.5	<0.002	0.13	0.48	15.6	2	2.5	93.0	0.83	0.05	9.9	0.398	0.62
L828399		730	15.3	88.5	<0.002	0.13	0.41	15.1	3	2.3	86.2	0.78	0.05	9.3	0.405	0.56
L828400		770	16.5	87.8	0.002	0.17	0.58	14.9	3	2.0	92.8	0.74	0.06	8.8	0.381	0.57
L828401		750	13.2	88.5	0.002	0.17	0.53	14.2	3	2.0	105.0	0.72	0.05	8.8	0.359	0.55
L828402		800	12.4	125.5	<0.002	0.22	0.61	17.0	3	2.8	87.7	0.94	0.07	11.0	0.442	0.74
L828403		880	18.7	79.1	0.002	0.04	0.74	16.7	3	1.9	124.0	0.78	0.09	8.9	0.426	0.53
L828404		880	18.4	106.5	0.002	0.06	0.79	18.1	3	2.3	124.0	0.84	0.08	10.8	0.450	0.71
L828405		830	17.0	102.5	0.003	0.08	0.80	17.8	3	2.3	138.0	0.83	0.09	10.2	0.443	0.66
L828406		660	20.6	94.9	0.002	0.37	0.66	17.7	3	2.7	163.0	1.04	0.09	13.2	0.453	0.67
L828407		750	21.0	120.5	0.002	0.55	0.70	18.5	3	2.8	153.0	0.98	0.08	13.3	0.455	0.75
L828408		760	17.4	106.5	0.003	0.56	0.84	18.6	3	2.4	151.0	0.88	0.09	11.2	0.453	0.68
L828409		750	16.0	103.0	0.004	0.53	0.87	17.4	3	2.3	171.0	0.86	0.08	10.5	0.424	0.66
L828410		860	20.2	120.5	0.002	1.11	0.86	18.5	3	2.5	132.0	0.86	0.07	11.0	0.447	0.76
L828411		820	20.4	113.0	0.002	1.16	0.87	18.0	3	2.5	133.0	0.87	0.07	10.5	0.452	0.82
L828412		880	22.1	141.0	<0.002	1.49	0.88	19.4	3	2.7	115.0	0.97	0.07	12.1	0.491	0.96
L828413		850	21.9	137.0	0.002	1.56	0.93	19.1	3	2.7	119.5	0.94	0.08	11.8	0.481	0.93
L828414		970	15.7	80.3	<0.002	0.03	0.84	15.1	3	1.9	66.9	0.72	0.08	8.8	0.377	0.54
L828415		650	21.1	98.3	0.002	0.05	0.74	16.9	3	2.7	129.5	1.00	0.07	12.2	0.451	0.74
L828416		770	21.4	131.0	0.003	0.63	0.75	17.6	3	2.8	105.0	1.04	0.07	13.9	0.456	0.89
L828417		830	18.8	134.5	0.003	0.94	0.91	18.9	2	2.4	150.5	0.88	0.10	12.3	0.460	0.81
L828418		760	21.6	124.5	0.003	1.04	0.77	17.4	2	2.3	179.0	0.90	0.07	11.3	0.420	0.82
L828419		810	14.5	122.5	0.002	0.77	0.63	16.1	2	2.1	136.0	0.75	0.05	11.2	0.424	0.69
L828420		810	14.1	107.5	0.002	0.69	0.65	15.2	2	2.0	131.0	0.78	0.05	10.8	0.407	0.65
L828421		1000	8.6	153.0	<0.002	0.46	0.51	20.3	2	2.6	109.0	0.91	0.07	12.4	0.461	0.91
L828422		920	12.4	142.0	0.002	0.60	0.57	18.3	2	2.4	122.5	0.83	0.06	12.3	0.445	0.83
L828423		730	20.4	138.5	0.002	1.00	0.81	18.5	2	2.4	206	0.82	0.06	12.1	0.437	0.84

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828384		2.8	148	1.3	21.1	143	88.7
L828385		6.8	134	1.2	19.6	137	78.4
L828386		2.3	121	1.0	19.1	108	80.5
L828387		2.1	116	1.0	19.5	119	80.6
L828388		2.5	112	1.3	21.0	83	89.9
L828389		2.5	126	1.3	20.5	77	89.4
L828390		2.6	124	1.4	20.3	102	93.7
L828391		2.7	129	1.4	20.7	100	95.0
L828392		2.7	134	1.3	21.3	132	93.4
L828393		2.6	133	1.2	20.7	122	89.3
L828394		2.7	119	1.2	20.7	104	88.8
L828395		2.4	99	1.3	19.5	93	82.8
L828396		2.2	94	1.2	18.9	95	84.4
L828397		2.2	113	1.3	19.3	101	87.6
L828398		2.2	110	1.3	19.2	121	85.2
L828399		2.1	110	1.2	19.0	114	78.8
L828400		2.4	110	1.1	18.4	104	77.8
L828401		2.3	98	1.1	19.3	107	79.1
L828402		2.5	122	1.5	20.9	91	92.4
L828403		2.5	123	1.1	20.7	141	87.4
L828404		3.0	140	1.3	22.1	126	99.1
L828405		2.8	141	1.3	21.7	121	96.9
L828406		3.0	127	1.5	21.1	109	94.9
L828407		3.1	135	1.5	22.3	123	99.9
L828408		3.0	148	1.3	21.4	116	100.0
L828409		3.0	142	1.3	21.3	118	95.1
L828410		3.1	156	1.3	20.9	154	100.5
L828411		2.8	160	1.3	19.4	149	91.0
L828412		3.3	182	1.5	20.4	156	101.5
L828413		3.2	178	1.5	20.3	149	99.9
L828414		2.3	125	1.1	23.6	225	79.5
L828415		2.5	132	1.5	20.0	120	90.2
L828416		3.1	147	1.5	20.9	123	91.3
L828417		3.3	165	1.4	22.4	131	98.6
L828418		3.2	140	1.4	21.3	117	98.6
L828419		2.8	137	1.2	20.5	120	96.0
L828420		2.7	127	1.2	19.2	119	91.5
L828421		3.1	162	1.5	22.3	125	108.5
L828422		3.0	151	1.4	20.3	136	99.2
L828423		3.0	160	1.3	18.7	129	101.5



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt.	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
L828424		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
		0.60	<0.01	0.09	8.49	12.9	680	1.99	0.26	1.03	0.14	74.2	19.7	91	7.27	31.5

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828424		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
		4.99	22.7	0.21	2.9	0.02	0.077	2.12	37.7	88.4	1.51	644	1.02	0.29	12.5	63.2

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61 P ppm 10	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02
L828424		750	18.9	136.5	0.002	0.91	0.78	17.8	2	2.4	286	0.83	0.06	12.1	0.443	0.78

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**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
L828424		3.0	159	1.3	18.8	138	105.5

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**CERTIFICATE OF ANALYSIS WH12100502**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12104025**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D - Py/ Ag  
 This report is for 49 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 20- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999814		0.34	<0.01	0.09	10.20	6.9	930	3.73	0.38	1.05	0.08	58.6	20.3	85	8.49	32.8
.999815		0.65	<0.01	0.04	9.23	439	740	3.18	0.52	0.23	0.07	67.6	31.6	76	8.31	50.8
.999816		0.83	<0.01	0.04	9.03	407	750	3.39	0.57	0.19	0.03	73.7	39.5	74	10.45	44.0
.999817		0.77	<0.01	0.02	8.98	476	680	3.10	0.46	0.17	0.02	56.1	34.8	73	7.87	59.9
.999818		0.85	<0.01	0.01	8.42	402	710	2.91	0.42	0.15	0.03	55.3	33.1	69	8.00	40.4
.999819		0.90	<0.01	0.02	8.54	222	630	2.89	0.63	0.36	0.03	101.5	31.0	67	7.16	107.0
.999820		1.02	<0.01	0.02	8.90	237	800	3.07	0.55	0.18	0.03	62.4	28.6	72	7.72	56.4
.999821		0.87	<0.01	0.08	9.17	126.5	750	3.25	0.51	0.19	<0.02	68.4	32.6	68	8.95	30.7
.999822		0.84	<0.01	0.02	9.15	141.5	780	3.17	0.52	0.18	<0.02	80.8	29.7	65	8.80	15.8
.999823		1.17	<0.01	0.02	9.63	19.0	1060	3.19	0.49	0.36	<0.02	113.0	29.7	75	8.96	62.1
.999824		0.63	<0.01	0.01	9.19	53.0	1070	3.16	0.54	0.23	<0.02	80.2	31.2	68	9.06	25.5
.999825		0.92	<0.01	0.01	8.93	38.1	1060	3.34	0.54	0.18	<0.02	84.1	29.9	66	8.71	11.4
.999826		0.75	<0.01	0.01	9.93	49.6	1100	3.15	0.54	0.26	0.02	87.9	30.7	71	8.66	28.6
.999827		0.82	<0.01	0.44	8.27	2030	690	2.10	0.29	0.58	3.68	69.8	18.2	87	14.40	36.0
.999828		0.60	<0.01	0.15	7.08	1675	550	1.99	0.45	0.45	1.60	92.7	21.4	66	6.41	59.3
.999829		0.48	<0.01	0.12	7.36	1765	550	2.30	0.49	0.40	1.11	100.5	24.4	63	6.39	57.6
.999830		0.71	<0.01	0.04	9.83	634	910	3.16	0.46	0.25	0.16	83.8	26.1	75	7.91	60.7
.999831		0.80	<0.01	0.02	9.40	534	750	3.29	0.38	0.21	0.12	47.5	27.0	84	7.76	27.9
.999832		1.15	<0.01	0.02	9.16	242	960	3.53	0.49	0.18	0.04	47.8	24.2	72	9.16	17.3
.999833		0.70	<0.01	0.01	10.10	332	1000	3.51	0.40	0.19	0.05	42.7	25.5	76	8.91	12.6
.999834		0.90	<0.01	0.03	9.40	133.5	700	3.38	0.67	0.18	0.11	61.5	28.7	73	8.43	91.5
.999835		0.54	<0.01	0.01	8.80	94.8	740	3.60	0.40	0.16	0.08	38.0	28.8	75	8.60	10.8
.999836		0.93	<0.01	<0.01	9.44	66.9	1090	3.36	0.47	0.16	0.05	46.1	27.2	80	9.20	8.9
.999837		0.63	<0.01	0.04	9.49	81.5	1040	3.04	0.55	0.20	0.04	51.4	27.9	76	9.08	33.9
.999838		0.53	<0.01	0.11	5.81	1120	620	1.45	0.23	0.35	1.26	60.4	16.4	74	5.83	39.3
.999839		0.62	<0.01	0.04	8.27	412	570	2.58	0.40	0.17	0.14	43.9	27.1	72	5.58	17.9
.999840		0.58	<0.01	0.08	8.32	460	570	2.64	0.68	0.18	0.10	50.1	26.8	71	5.89	64.2
.999841		0.78	<0.01	0.10	8.67	585	830	3.30	0.75	0.19	0.05	63.0	37.6	74	7.54	58.6
.999842		0.66	<0.01	0.09	9.17	395	690	3.30	0.75	0.19	0.03	84.8	37.4	76	8.25	38.9
.999843		0.89	<0.01	0.04	9.00	76.7	550	3.29	0.64	0.42	0.14	96.8	39.1	72	7.10	48.9
.999844		0.78	<0.01	0.09	9.05	95.0	620	3.23	0.75	0.29	0.12	98.7	37.2	73	7.39	54.2
.999845		1.00	<0.01	0.15	9.39	90.3	770	3.15	0.65	0.24	0.11	86.0	39.2	75	8.38	69.8
.999846		0.91	<0.01	0.13	9.16	120.0	820	3.32	0.64	0.26	0.14	93.1	43.8	75	8.41	61.9
.999847		0.73	<0.01	0.05	8.92	32.2	610	3.16	0.62	0.24	0.05	85.1	27.6	75	8.61	80.1
.999848		0.60	<0.01	0.05	8.93	21.7	630	3.11	0.67	0.20	0.04	74.6	25.2	76	8.06	121.0
.999849		1.02	<0.01	0.06	9.05	13.2	900	2.94	0.71	0.41	<0.02	68.1	29.8	71	7.71	37.0
.999850		0.68	<0.01	0.07	8.80	20.8	590	2.75	0.62	0.37	0.03	69.0	31.9	75	6.67	40.8
.999851		0.59	<0.01	0.14	6.64	409	1000	1.70	0.31	0.32	0.35	70.7	18.4	74	6.06	36.3
.999852		0.79	<0.01	0.15	6.51	467	890	1.75	0.25	0.44	0.37	69.9	18.1	73	5.04	41.4
.999853		0.74	<0.01	0.07	7.21	469	650	2.14	0.40	0.30	0.19	89.5	22.7	66	5.58	44.2



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 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 20- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

<b>CERTIFICATE OF ANALYSIS WH12104025</b>
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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999814		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
.999815		5.54	29.3	0.16	4.2	0.01	0.093	2.73	23.8	94.5	1.12	560	0.63	0.39	31.8	50.9
.999816		5.52	25.4	0.17	3.2	0.10	0.086	2.74	23.8	67.8	0.86	2300	1.18	0.39	15.5	43.3
.999817		5.64	27.3	0.17	3.5	0.02	0.085	3.04	26.3	58.9	0.79	1580	1.33	0.34	15.8	43.4
.999818		5.17	26.3	0.15	3.3	0.01	0.081	2.71	19.4	65.3	0.86	1120	2.47	0.36	15.8	49.9
.999819		5.41	25.8	0.14	3.3	0.01	0.083	2.75	18.2	59.8	0.87	960	1.08	0.29	15.2	51.1
.999820		3.57	24.1	0.19	3.8	0.01	0.079	2.64	40.8	51.2	0.83	2510	0.92	0.36	14.1	42.2
.999821		4.78	25.0	0.14	3.6	<0.01	0.094	2.74	22.7	57.7	0.91	1040	0.94	0.31	14.3	45.3
.999822		6.20	26.4	0.17	3.4	0.02	0.083	3.13	24.7	44.7	0.95	722	0.67	0.27	14.8	56.0
.999823		6.65	25.3	0.18	3.2	0.01	0.090	3.03	29.4	41.4	0.92	777	0.66	0.26	14.2	52.5
.999824		5.67	26.5	0.20	3.3	0.03	0.082	3.18	43.4	41.2	0.96	1050	0.42	0.29	14.7	54.2
.999825		6.34	26.3	0.15	3.0	0.02	0.085	3.00	27.7	45.0	0.91	766	1.19	0.29	15.1	55.3
.999826		5.96	24.8	0.20	3.1	0.01	0.093	3.04	29.7	46.4	0.94	791	0.68	0.26	14.6	50.6
.999827		6.24	25.9	0.18	3.3	0.01	0.084	3.20	32.8	47.5	1.05	977	0.79	0.30	14.8	52.7
.999828		4.80	20.6	0.17	3.0	3.79	0.082	2.06	32.2	81.4	0.73	847	1.32	0.33	11.9	57.4
.999829		5.01	18.40	0.17	3.0	0.34	0.076	1.81	42.4	65.4	1.00	1280	1.46	0.42	11.1	49.3
.999830		5.24	20.2	0.21	3.0	0.26	0.085	1.84	45.7	75.9	0.87	1500	1.16	0.34	11.7	47.8
.999831		5.48	27.7	0.20	2.7	0.06	0.086	2.53	32.8	80.9	0.82	1060	1.20	0.45	14.3	50.0
.999832		5.52	27.8	0.16	2.6	0.07	0.088	2.68	17.8	81.8	0.74	1160	0.66	0.44	14.3	51.7
.999833		5.65	27.8	0.16	2.5	0.05	0.079	2.74	16.9	81.1	0.65	606	0.80	0.44	14.5	47.5
.999834		5.35	28.8	0.15	2.5	0.04	0.086	2.84	15.5	85.2	0.69	797	0.58	0.50	14.7	46.5
.999835		4.53	29.7	0.15	3.1	0.09	0.090	2.66	22.6	86.8	0.78	3380	3.00	0.52	15.6	45.4
.999836		4.91	29.2	0.14	2.8	0.04	0.089	2.78	13.4	79.4	0.72	1800	0.56	0.42	15.2	47.1
.999837		5.64	28.2	0.14	2.5	0.02	0.085	2.85	16.9	78.4	0.70	750	0.76	0.49	15.0	49.0
.999838		6.05	32.4	0.20	2.1	0.02	0.088	2.86	20.3	69.4	0.76	1300	1.32	0.49	16.9	47.2
.999839		4.79	16.85	0.16	2.1	0.3	0.061	1.49	30.3	46.2	0.87	929	2.24	0.48	10.6	42.6
.999840		6.41	28.1	0.19	2.8	0.02	0.080	2.64	14.7	62.9	1.04	723	0.38	0.20	18.0	53.2
.999841		6.24	27.4	0.21	3.0	0.01	0.090	2.64	16.9	61.5	1.05	736	0.62	0.17	16.7	49.2
.999842		3.58	29.3	0.21	3.6	0.02	0.093	3.04	24.6	42.3	0.79	1160	1.31	0.31	17.0	43.6
.999843		3.28	29.2	0.22	3.8	0.02	0.092	3.23	32.3	40.2	0.79	1000	1.49	0.35	17.6	42.4
.999844		4.15	28.0	0.23	3.5	<0.1	0.080	3.03	38.2	41.4	0.94	6290	2.02	0.42	17.1	41.5
.999845		3.84	29.6	0.25	3.3	<0.1	0.092	3.11	39.6	41.8	0.91	4710	2.14	0.40	17.3	44.0
.999846		4.08	31.2	0.26	3.3	0.03	0.096	3.30	33.2	42.5	0.95	2320	2.59	0.34	18.6	49.3
.999847		4.92	29.9	0.24	3.7	0.03	0.095	3.23	36.2	45.1	1.00	3630	4.22	0.31	17.8	49.0
.999848		4.29	27.8	0.22	3.5	<0.1	0.085	3.07	31.2	51.4	0.96	1480	1.97	0.26	18.1	45.7
.999849		4.72	28.6	0.21	3.4	0.01	0.089	3.03	25.8	59.5	1.00	971	1.96	0.25	18.7	49.3
.999850		5.67	27.9	0.22	3.0	0.01	0.091	3.00	25.6	60.7	1.11	1740	0.89	0.22	17.0	47.9
.999851		5.97	27.3	0.24	2.9	0.01	0.082	2.89	26.2	62.4	1.14	1900	1.24	0.20	17.0	47.5
.999852		4.84	19.05	0.19	2.3	0.5	0.066	1.81	35.3	55.5	0.85	1160	1.73	0.36	12.7	46.1
.999853		4.72	18.80	0.19	2.2	0.31	0.065	1.78	33.9	52.1	0.93	1020	1.48	0.46	12.6	44.6
.999854		5.22	21.3	0.22	2.6	0.07	0.072	2.16	42.8	47.0	0.72	1900	1.48	0.33	13.5	40.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
.999814		760	26.3	99.5	<0.002	0.16	0.46	16.3	1	3.3	111.5	1.86	0.13	11.0	0.524	0.70
.999815		500	29.8	138.5	<0.002	0.01	1.41	18.1	1	2.9	88.3	1.09	0.09	12.8	0.420	1.06
.999816		420	42.9	145.5	<0.002	0.01	1.72	19.8	1	3.3	95.2	1.08	0.09	13.4	0.400	0.93
.999817		380	28.6	121.5	<0.002	0.01	1.30	17.9	1	3.0	82.7	1.14	0.07	11.8	0.411	0.90
.999818		360	22.4	106.5	<0.002	0.01	1.20	17.6	1	2.9	78.0	1.07	0.06	11.0	0.405	0.90
.999819		400	86.8	145.5	<0.002	0.08	0.95	17.5	1	2.8	77.4	0.99	0.07	17.3	0.377	0.79
.999820		430	17.3	132.0	<0.002	0.01	0.99	17.2	1	2.9	78.8	1.06	0.08	12.7	0.383	0.82
.999821		360	27.0	157.5	<0.002	0.06	1.85	18.8	1	3.2	83.5	1.08	0.10	13.1	0.403	0.97
.999822		370	26.2	147.0	<0.002	0.03	2.06	18.1	1	3.0	85.4	1.06	0.09	14.8	0.377	0.95
.999823		380	23.2	187.5	<0.002	0.04	2.07	19.1	1	3.1	96.8	1.08	0.10	16.9	0.399	0.97
.999824		360	25.4	168.0	<0.002	0.04	2.21	18.6	<1	2.9	95.5	1.01	0.11	13.4	0.392	0.96
.999825		360	23.3	143.5	<0.002	0.04	1.72	17.8	<1	3.0	99.2	1.03	0.09	14.0	0.408	0.90
.999826		400	27.6	174.0	<0.002	0.05	1.68	18.8	1	3.0	105.5	1.04	0.09	15.9	0.428	0.88
.999827		830	96.6	125.0	<0.002	0.06	2.66	18.3	2	2.4	106.0	0.82	0.07	11.6	0.401	26.2
.999828		710	35.4	109.5	<0.002	0.02	1.92	17.1	1	2.3	79.6	0.81	0.06	14.2	0.374	38.0
.999829		630	40.3	110.5	<0.002	0.02	2.01	17.1	1	2.4	87.1	0.86	0.11	16.1	0.366	26.5
.999830		480	24.9	126.0	<0.002	0.01	1.37	18.4	<1	2.9	110.0	1.01	0.08	15.0	0.375	8.54
.999831		420	22.6	103.0	<0.002	0.01	1.32	16.8	<1	3.1	104.0	1.02	<0.05	10.4	0.387	4.43
.999832		370	29.6	114.0	<0.002	0.01	1.37	16.5	<1	3.2	113.5	1.01	<0.05	10.6	0.366	1.86
.999833		400	24.2	116.5	<0.002	0.01	1.23	16.9	<1	3.2	120.0	1.04	0.07	10.3	0.393	1.71
.999834		390	33.3	110.5	<0.002	0.02	0.92	18.3	1	3.3	115.0	1.07	0.12	13.1	0.389	2.27
.999835		380	28.4	102.0	<0.002	0.02	1.05	17.0	<1	3.3	108.0	1.08	0.09	9.2	0.385	1.87
.999836		370	31.0	113.0	<0.002	0.02	1.40	16.5	<1	3.1	115.0	1.05	0.08	10.2	0.384	1.47
.999837		400	32.3	124.0	<0.002	0.02	1.36	18.6	2	3.2	123.0	1.16	0.07	12.7	0.389	1.60
.999838		760	26.7	83.0	<0.002	0.02	1.30	14.2	2	1.7	70.2	0.71	0.06	11.0	0.371	19.70
.999839		480	10.5	84.8	<0.002	<0.01	0.75	18.8	2	2.9	80.7	1.24	0.09	10.7	0.426	2.32
.999840		520	23.9	84.4	<0.002	0.01	0.99	18.1	2	3.1	79.4	1.23	0.09	12.0	0.418	1.87
.999841		470	144.5	125.0	<0.002	0.03	2.04	19.3	2	3.1	80.0	1.24	0.07	14.6	0.417	1.22
.999842		470	106.0	148.5	0.002	0.05	1.93	20.1	2	3.2	81.7	1.29	0.08	17.9	0.427	1.15
.999843		430	132.0	141.0	<0.002	0.35	2.27	19.7	2	2.9	86.6	1.28	0.06	18.8	0.397	0.95
.999844		490	177.5	148.0	<0.002	0.26	1.76	19.2	2	3.1	86.2	1.24	0.07	18.8	0.408	1.02
.999845		540	158.0	155.0	<0.002	0.74	2.66	20.1	2	3.3	93.0	1.27	0.08	18.6	0.416	1.17
.999846		560	158.0	160.0	<0.002	0.99	3.34	20.2	2	3.2	94.9	1.27	0.08	19.2	0.403	1.17
.999847		530	54.5	141.0	<0.002	0.26	1.40	19.6	2	2.9	96.0	1.28	0.08	17.0	0.418	0.97
.999848		530	36.9	127.5	<0.002	0.13	0.92	19.4	2	3.0	96.4	1.33	0.09	15.4	0.426	0.99
.999849		390	42.9	116.5	<0.002	0.07	0.98	18.3	2	3.1	87.4	1.22	0.06	14.8	0.432	0.95
.999850		370	47.4	110.0	<0.002	0.05	0.97	18.1	2	2.9	78.2	1.19	0.07	15.2	0.420	0.94
.999851		870	23.8	100.0	<0.002	0.04	0.84	14.3	2	2.0	74.0	0.86	0.07	12.2	0.376	1.27
.999852		810	21.0	94.9	<0.002	0.03	0.77	15.4	3	1.9	74.4	0.86	0.07	11.6	0.387	1.24
.999853		610	45.0	123.5	<0.002	0.02	1.08	16.0	3	2.2	79.1	0.95	0.05	16.0	0.364	0.79



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
.999814		2.7	94	1.7	15.4	117	152.5
.999815		2.9	100	2.2	16.0	118	105.5
.999816		2.6	92	2.3	17.2	105	104.0
.999817		2.6	94	2.4	14.6	111	104.5
.999818		2.3	85	2.4	14.4	111	107.0
.999819		3.6	88	1.9	23.8	87	113.0
.999820		2.7	93	2.1	17.2	102	112.0
.999821		2.2	96	2.3	17.0	105	105.0
.999822		2.0	77	2.2	18.6	96	97.8
.999823		3.8	116	2.1	21.6	96	104.0
.999824		2.4	90	2.1	17.1	96	98.1
.999825		2.0	96	2.1	18.4	101	100.5
.999826		2.7	104	2.4	19.7	108	103.5
.999827		4.7	145	1.5	20.6	894	91.2
.999828		3.3	110	1.4	40.6	921	98.2
.999829		3.3	101	1.6	23.9	625	96.4
.999830		3.0	100	2.0	18.5	135	84.2
.999831		2.1	92	2.1	12.6	148	82.9
.999832		1.7	80	2.2	11.9	105	75.8
.999833		1.8	83	2.0	11.2	110	75.6
.999834		4.2	110	2.0	15.5	135	96.7
.999835		1.9	85	2.3	11.0	124	91.4
.999836		1.7	72	2.2	12.2	114	81.3
.999837		1.8	75	2.2	15.0	112	80.8
.999838		2.6	115	1.1	18.0	603	82.9
.999839		2.6	97	2.4	14.0	162	111.0
.999840		3.4	105	2.4	15.7	158	112.0
.999841		5.9	104	2.3	17.8	112	135.0
.999842		5.8	105	2.4	21.4	101	137.5
.999843		3.8	100	2.3	22.2	106	122.0
.999844		3.5	103	2.2	22.9	109	124.0
.999845		3.5	107	2.1	23.1	121	130.0
.999846		4.0	107	2.3	24.2	129	137.0
.999847		5.4	111	2.4	23.4	111	130.5
.999848		6.7	116	2.4	21.8	125	130.0
.999849		2.5	94	2.4	17.6	118	112.0
.999850		2.2	90	2.5	17.1	125	107.5
.999851		3.0	124	1.3	19.1	132	90.4
.999852		2.7	124	1.3	19.1	140	87.8
.999853		3.0	93	1.5	22.1	128	97.6



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999854		0.93	<0.01	0.09	8.67	331	690	2.79	0.66	0.23	0.11	64.1	28.4	71	6.90	61.3
.999855		0.91	<0.01	0.03	9.32	38.4	770	3.01	0.74	0.19	0.02	59.7	19.5	75	8.09	10.1
.999856		1.01	<0.01	0.03	8.92	80.4	850	2.81	0.61	0.19	0.04	57.2	20.4	74	7.46	17.3
.999857		0.93	<0.01	0.03	8.73	41.5	1120	2.55	0.71	0.39	0.03	65.4	16.0	69	7.69	9.8
.999858		0.90	<0.01	0.03	8.94	41.4	1480	2.70	0.70	0.30	0.02	66.9	16.2	70	7.93	8.3
.999859		1.04	<0.01	0.14	9.10	30.3	940	2.82	0.71	0.27	0.02	61.2	33.5	73	6.95	93.1
.999860		0.52	<0.01	0.23	9.77	42.1	700	2.92	0.79	0.24	0.04	76.9	44.5	77	7.62	79.8
.999861		0.90	<0.01	0.06	9.00	39.2	920	2.71	0.47	0.19	0.03	32.2	23.7	75	6.68	48.8
.999862		0.66	<0.01	0.04	9.13	22.7	610	2.72	0.26	0.18	<0.02	34.5	20.6	75	6.50	45.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999854		5.12	28.4	0.23	3.0	0.03	0.090	2.96	23.9	34.7	0.58	4050	2.51	0.32	17.2	44.6
.999855		6.02	29.6	0.22	2.9	<0.1	0.089	3.42	21.3	39.6	0.85	691	0.53	0.23	18.0	52.0
.999856		5.43	28.2	0.23	3.1	<0.1	0.089	3.21	21.4	41.7	0.84	1080	0.98	0.27	17.5	48.6
.999857		7.11	26.6	0.24	2.2	0.01	0.079	3.07	26.3	42.7	0.84	433	0.74	0.22	14.0	43.2
.999858		7.02	26.6	0.23	2.3	<0.1	0.076	3.13	28.2	43.9	0.84	491	0.75	0.23	13.6	41.2
.999859		6.00	27.3	0.23	2.8	<0.1	0.083	2.91	24.6	55.0	1.03	469	1.15	0.25	16.7	45.1
.999860		5.71	28.6	0.25	3.3	0.1	0.090	3.15	32.2	58.2	0.93	441	1.96	0.34	22.6	50.3
.999861		5.41	28.4	0.19	2.9	0.02	0.090	3.04	12.5	59.1	0.96	894	0.61	0.25	16.0	43.2
.999862		5.09	29.2	0.19	3.0	0.01	0.085	3.07	12.5	59.8	0.96	858	0.36	0.24	15.6	45.1

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
.999854	470	60.1	142.5	<0.002	0.02	1.55	18.7	3	3.0	85.7	1.18	0.07	15.0	0.406	1.00	
.999855	430	17.6	152.0	<0.002	0.02	1.10	18.9	2	3.1	89.7	1.23	0.07	13.9	0.421	1.09	
.999856	440	22.8	138.5	<0.002	0.04	1.04	19.1	2	3.1	87.1	1.22	0.09	14.2	0.415	1.06	
.999857	510	19.9	134.5	<0.002	0.04	0.98	16.7	2	2.9	109.5	0.99	0.05	14.6	0.365	0.99	
.999858	510	20.1	133.0	<0.002	0.05	0.91	16.9	2	2.9	111.5	0.98	0.07	15.2	0.360	0.99	
.999859	580	31.6	113.0	<0.002	0.55	1.45	18.3	2	3.0	111.5	1.24	0.08	14.2	0.377	0.92	
.999860	510	52.1	136.5	<0.002	1.43	2.39	19.5	2	3.3	118.5	1.53	0.09	17.1	0.415	0.96	
.999861	490	16.8	87.4	<0.002	0.26	0.70	17.4	2	3.2	106.5	1.18	0.08	9.6	0.398	0.99	
.999862	480	14.9	86.8	<0.002	0.09	0.46	18.7	2	3.1	102.0	1.29	0.07	11.2	0.407	1.10	

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
.999854		3.4	110	2.0	17.6	125	116.0
.999855		2.4	108	2.4	16.2	91	112.0
.999856		2.8	118	2.2	16.6	95	114.0
.999857		2.5	99	1.9	16.6	86	84.4
.999858		2.5	97	1.9	16.0	91	84.3
.999859		3.7	103	1.8	18.5	120	104.0
.999860		5.8	110	1.8	21.2	113	126.0
.999861		3.2	108	2.0	11.3	114	103.5
.999862		3.2	111	2.3	11.2	113	99.0



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**CERTIFICATE OF ANALYSIS WH12104025**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12104026**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D - Py/ Ag  
 This report is for 50 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

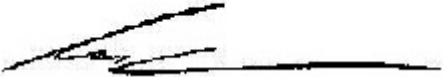
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999863		0.82	<0.01	0.06	7.90	7.0	540	2.31	0.36	0.27	0.07	89.4	18.9	66	4.60	32.1
.999864		0.78	<0.01	0.07	7.94	9.3	510	2.17	0.40	0.80	0.12	80.4	18.9	65	5.09	37.5
.999865		0.66	<0.01	0.09	7.35	9.3	1300	1.95	0.36	1.98	0.26	77.6	19.1	61	4.82	45.3
.999866		0.85	<0.01	0.06	8.52	9.9	930	2.60	0.44	0.94	0.11	77.1	18.4	74	7.37	34.1
.999867		0.90	<0.01	0.07	8.97	9.7	910	2.86	0.47	0.60	0.10	73.6	18.5	78	7.95	38.0
.999868		0.77	<0.01	0.06	7.57	9.0	510	2.16	0.39	0.26	0.10	82.2	17.3	67	4.14	37.1
.999869		0.78	<0.01	0.10	7.21	11.8	1080	1.80	0.34	2.59	0.27	74.1	18.8	62	4.41	52.3
.999870		0.83	<0.01	0.14	6.85	10.3	1000	1.73	0.32	4.05	0.25	68.9	18.2	58	4.23	52.2
.999871		1.11	<0.01	0.16	9.13	11.8	760	2.77	0.49	0.60	0.09	69.5	21.9	81	7.17	44.5
.999872		0.76	<0.01	0.13	9.31	10.9	930	2.64	0.50	0.46	0.06	65.3	21.2	83	7.44	29.6
.999873		0.51	<0.01	0.13	10.10	10.2	750	3.36	0.47	0.46	0.02	107.5	25.1	83	7.96	32.0
.999874		0.68	<0.01	0.07	10.30	7.3	800	3.26	0.43	0.49	0.04	100.0	19.7	85	7.67	45.8
.999875		0.77	<0.01	0.05	10.15	7.5	660	3.19	0.44	0.30	0.02	96.8	19.6	82	8.38	34.9
.999876		0.80	<0.01	0.08	9.15	8.1	610	2.90	0.42	0.79	0.04	86.2	18.7	78	7.29	32.0
.999877		0.87	<0.01	0.09	9.51	9.7	690	2.91	0.38	1.58	0.08	101.5	21.0	78	6.96	33.9
.999878		0.81	<0.01	0.10	10.50	9.1	710	3.22	0.43	0.79	0.07	103.0	21.5	83	7.91	34.8
.999879		0.70	<0.01	0.12	7.36	52.4	820	2.02	0.27	1.09	0.49	80.0	19.4	72	5.41	52.8
.999880		0.77	<0.01	0.12	7.26	27.9	800	1.93	0.26	3.46	0.34	70.5	17.2	70	5.83	45.5
.999881		0.65	<0.01	0.17	7.20	26.6	920	1.84	0.24	4.66	0.36	70.9	16.5	72	7.16	47.4
.999882		0.81	<0.01	0.20	6.67	27.6	900	1.74	0.24	5.20	0.49	69.5	16.1	71	6.91	52.1
.999883		0.92	<0.01	0.20	6.59	25.4	860	1.67	0.23	4.56	0.39	65.3	16.0	71	6.13	52.5
.999884		0.96	<0.01	0.19	6.58	19.7	940	1.65	0.21	4.80	0.43	65.3	15.8	69	6.04	56.5
.999885		0.93	<0.01	0.15	7.30	54.6	850	1.86	0.25	3.41	0.40	73.7	17.0	77	6.90	47.9
.999886		0.92	<0.01	0.19	8.06	62.4	940	2.17	0.26	2.23	0.40	69.1	20.2	86	8.61	48.0
.999887		0.81	<0.01	0.23	8.55	47.4	960	2.29	0.29	1.64	0.41	74.8	23.9	92	9.55	51.3
.999888		0.87	<0.01	0.32	7.88	53.1	960	2.15	0.26	2.81	0.45	72.0	21.1	83	8.14	51.1
.999889		0.81	<0.01	0.25	7.81	54.0	970	2.01	0.26	2.70	0.43	71.0	20.0	82	7.99	51.5
.999890		0.55	<0.01	0.26	6.73	56.8	880	1.71	0.21	4.08	0.45	64.1	16.5	70	5.89	45.9
.999891		0.54	<0.01	0.14	6.64	58.2	1020	1.70	0.22	4.09	0.37	67.8	16.1	72	5.97	44.7
.999892		0.79	<0.01	0.13	6.08	51.7	820	1.36	0.19	6.12	0.38	54.5	14.1	65	4.77	41.4
.999893		0.87	<0.01	0.14	6.26	44.8	750	1.51	0.20	4.53	0.34	61.7	15.2	66	5.44	46.4
.999894		0.69	<0.01	0.13	6.39	49.3	710	1.60	0.19	5.31	0.38	59.1	15.4	69	5.25	47.2
.999895		0.79	<0.01	0.13	5.92	42.7	680	1.38	0.19	6.25	0.34	56.3	13.8	60	4.53	39.4
.999896		0.75	<0.01	0.11	6.34	43.4	740	1.48	0.19	4.75	0.32	55.8	14.4	67	4.87	43.1
.999897		1.02	<0.01	0.13	5.41	35.7	820	1.38	0.18	6.13	0.51	55.2	13.9	58	3.90	37.1
.999898		0.92	<0.01	0.10	5.36	35.2	630	1.29	0.16	6.18	0.27	56.6	12.6	52	3.66	38.0
.999899		0.72	<0.01	0.13	7.55	77.4	640	2.12	0.30	0.44	0.35	82.5	18.7	70	5.83	44.7
.999900		0.59	<0.01	0.11	7.30	209	700	1.95	0.27	3.85	0.26	73.4	16.1	65	6.63	42.6
.999901		0.60	<0.01	0.11	7.84	104.5	760	2.10	0.28	2.33	0.38	74.9	16.7	71	7.15	45.2
.999902		0.62	<0.01	0.13	7.10	41.7	760	1.93	0.25	3.91	0.30	73.0	16.0	70	7.62	45.9



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
.999863		5.54	24.5	0.22	2.6	0.03	0.064	1.85	39.7	69.8	0.99	1420	0.47	0.66	15.4	37.0
.999864		5.37	23.1	0.21	2.4	0.04	0.066	2.05	37.0	66.9	1.00	1430	0.93	0.54	14.0	36.5
.999865		5.31	20.9	0.21	2.2	0.05	0.062	1.88	37.4	63.3	1.02	1420	0.92	0.52	13.4	37.3
.999866		5.10	24.5	0.23	2.8	<0.1	0.068	2.40	33.7	72.1	1.04	1040	0.52	0.54	15.9	36.3
.999867		4.92	27.4	0.23	3.0	<0.1	0.076	2.62	30.6	71.6	1.06	813	0.44	0.51	17.2	37.0
.999868		5.12	21.5	0.20	2.5	<0.1	0.066	1.94	38.4	58.0	0.88	1160	0.68	0.51	14.8	36.6
.999869		5.32	20.0	0.22	2.1	0.06	0.066	1.86	37.1	57.6	1.25	1150	0.67	0.56	12.9	37.1
.999870		4.87	20.3	0.22	2.2	<0.1	0.065	1.77	34.5	53.3	1.23	1680	0.69	0.52	12.7	36.9
.999871		4.73	29.2	0.24	2.6	<0.1	0.078	2.67	31.1	69.6	0.97	543	0.76	0.49	18.6	42.0
.999872		4.51	27.8	0.20	2.7	0.07	0.077	2.77	29.4	63.5	0.95	524	0.81	0.50	17.4	37.3
.999873		4.71	27.9	0.18	3.1	0.05	0.078	2.96	56.0	82.6	1.03	592	0.95	0.50	17.6	41.7
.999874		5.15	27.7	0.18	3.0	0.04	0.080	3.06	51.4	84.3	1.10	759	0.45	0.44	18.0	41.8
.999875		5.34	26.2	0.18	2.8	0.04	0.075	2.99	47.4	74.4	1.15	754	0.28	0.42	15.8	41.0
.999876		5.01	24.4	0.15	2.9	0.05	0.064	2.83	43.3	72.1	1.12	795	0.33	0.42	14.9	38.0
.999877		5.12	24.6	0.20	3.0	0.05	0.071	2.70	50.1	75.3	1.32	782	0.68	0.56	18.1	41.2
.999878		5.21	25.6	0.18	3.2	0.05	0.075	3.11	53.2	73.9	1.19	583	0.59	0.48	16.5	39.2
.999879		5.32	18.00	0.15	2.9	0.16	0.068	2.06	39.7	64.7	1.10	1180	1.12	0.48	12.0	45.2
.999880		4.75	16.75	0.18	2.7	0.14	0.079	2.09	36.9	55.5	1.32	893	0.98	0.44	11.8	41.9
.999881		4.79	16.25	0.16	3.0	0.18	0.064	2.09	40.2	57.3	1.46	664	1.26	0.45	11.6	44.3
.999882		4.44	16.05	0.14	2.9	0.20	0.067	1.95	35.8	54.8	1.47	670	1.28	0.44	11.1	43.1
.999883		4.57	15.30	0.15	2.8	0.16	0.055	1.90	35.4	52.1	1.57	646	1.49	0.48	10.6	42.4
.999884		4.63	15.25	0.14	3.0	0.1	0.057	1.92	34.0	51.2	1.57	592	1.31	0.50	10.4	41.4
.999885		4.57	16.75	0.15	2.8	0.25	0.064	2.07	36.9	55.5	1.35	651	1.21	0.45	11.4	45.2
.999886		4.75	18.45	0.17	2.8	0.38	0.073	2.31	36.8	66.3	1.28	721	1.39	0.48	12.4	53.1
.999887		4.92	19.25	0.14	3.1	0.32	0.071	2.44	39.8	64.8	1.29	680	1.46	0.49	12.9	60.6
.999888		4.79	18.35	0.15	2.9	0.38	0.067	2.27	37.9	61.9	1.40	749	1.48	0.50	12.4	55.4
.999889		4.79	18.00	0.16	3.2	0.29	0.071	2.24	38.9	58.3	1.47	694	1.37	0.48	12.0	53.5
.999890		4.46	15.45	0.14	2.7	0.23	0.060	1.92	33.2	54.8	1.51	652	1.20	0.45	10.3	44.0
.999891		4.59	15.40	0.14	2.7	0.19	0.059	1.94	33.8	54.4	1.35	614	1.39	0.46	10.4	42.7
.999892		4.43	13.70	0.15	2.7	0.17	0.061	1.69	30.3	47.5	1.49	581	1.11	0.50	9.4	38.4
.999893		4.42	14.75	0.14	2.6	0.18	0.059	1.77	31.3	50.8	1.51	624	1.25	0.45	9.8	39.5
.999894		4.59	14.60	0.14	2.8	0.81	0.057	1.78	31.3	50.5	1.49	627	1.12	0.51	9.9	40.6
.999895		4.17	13.30	0.12	2.4	0.15	0.054	1.68	28.9	48.4	1.50	583	0.98	0.47	8.9	35.4
.999896		4.58	13.90	0.14	2.6	0.17	0.053	1.81	29.8	51.8	1.75	596	0.99	0.48	9.5	37.9
.999897		3.94	13.20	0.13	2.3	0.94	0.048	1.50	29.9	45.7	1.74	622	1.50	0.40	8.6	35.3
.999898		4.03	12.70	0.13	2.3	0.15	0.047	1.51	29.9	44.5	1.61	591	1.02	0.46	8.5	32.5
.999899		5.13	18.70	0.17	2.9	0.16	0.067	2.00	43.0	68.3	0.92	965	1.08	0.43	12.1	43.2
.999900		4.42	17.90	0.15	2.7	0.09	0.063	2.09	37.8	56.3	0.92	665	1.24	0.41	11.6	39.7
.999901		4.69	18.60	0.15	2.7	0.11	0.066	2.25	38.9	57.8	0.97	713	1.26	0.44	11.8	41.0
.999902		4.35	17.30	0.14	2.6	0.14	0.065	2.31	36.6	54.7	1.27	628	1.18	0.40	11.5	40.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 23- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
.999863		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
.999863		500	30.7	94.4	<0.002	0.01	0.41	14.4	2	2.6	73.4	1.16	<0.05	17.8	0.383	0.62
.999864		460	34.7	96.3	<0.002	0.03	0.46	15.0	2	2.4	83.6	1.09	<0.05	17.4	0.376	0.74
.999865		480	33.8	93.6	<0.002	0.10	0.56	14.4	2	2.2	111.0	1.01	<0.05	16.4	0.369	0.70
.999866		510	26.8	93.4	<0.002	0.03	0.43	15.8	2	2.7	100.5	1.24	<0.05	16.9	0.427	0.80
.999867		440	25.0	102.0	<0.002	0.05	0.39	16.7	2	3.0	92.7	1.30	<0.05	17.9	0.446	0.88
.999868		480	32.8	98.4	<0.002	0.01	0.46	13.9	2	2.4	72.3	1.13	<0.05	16.6	0.379	0.66
.999869		510	30.8	95.0	<0.002	0.06	0.51	15.5	2	2.1	117.5	0.92	0.05	14.6	0.398	0.62
.999870		500	29.5	91.9	<0.002	0.05	0.53	14.7	2	2.1	183.5	0.90	0.05	13.9	0.372	0.69
.999871		390	49.0	109.5	0.002	0.21	0.67	17.4	2	3.1	86.7	1.38	<0.05	16.8	0.452	0.97
.999872		380	57.7	108.0	<0.002	0.34	0.74	16.6	2	3.1	81.8	1.35	<0.05	17.1	0.460	1.00
.999873		370	60.0	147.5	<0.002	0.62	0.88	18.0	1	3.3	92.4	1.27	<0.05	19.9	0.484	0.97
.999874		390	39.5	144.0	<0.002	0.35	0.60	17.7	1	3.2	92.3	1.25	<0.05	18.0	0.481	0.92
.999875		400	22.4	140.0	0.002	0.30	0.56	16.9	1	3.1	82.3	1.13	<0.05	16.7	0.465	0.90
.999876		410	37.3	118.5	<0.002	0.27	0.56	15.4	1	2.8	81.8	1.11	<0.05	15.8	0.443	0.86
.999877		480	38.7	126.5	0.002	0.34	0.68	17.2	1	2.9	123.0	1.17	<0.05	16.5	0.482	0.80
.999878		390	47.2	148.5	<0.002	0.47	0.71	16.3	1	3.0	95.5	1.18	<0.05	19.2	0.484	0.92
.999879		780	24.8	97.9	<0.002	0.03	0.87	16.2	1	2.1	100.0	0.81	0.07	11.6	0.443	0.90
.999880		740	21.5	90.7	<0.002	0.03	0.75	15.2	1	2.1	136.0	0.82	0.09	10.4	0.432	0.73
.999881		790	18.9	97.5	0.003	0.45	0.89	15.1	2	1.9	175.5	0.81	0.09	10.4	0.441	0.72
.999882		730	18.5	94.9	0.003	0.37	0.88	15.2	2	2.0	173.5	0.74	0.10	10.0	0.420	0.69
.999883		760	17.5	87.4	0.003	0.35	0.92	14.7	2	1.8	176.5	0.72	0.11	9.4	0.434	0.63
.999884		750	16.1	86.7	0.004	0.37	0.88	15.2	2	1.8	183.5	0.74	0.12	8.9	0.450	0.59
.999885		760	20.0	95.7	0.003	0.31	0.87	15.2	2	2.0	146.5	0.79	0.08	10.7	0.438	0.84
.999886		850	21.1	104.0	0.002	0.38	1.05	16.3	2	2.2	135.5	0.84	0.09	10.3	0.475	1.11
.999887		900	24.0	113.0	0.003	0.44	1.11	17.3	2	2.3	133.0	0.90	0.09	11.4	0.506	1.05
.999888		860	24.1	98.6	0.003	0.35	1.05	16.7	2	2.2	158.5	0.83	0.11	10.4	0.478	0.99
.999889		830	27.6	110.0	0.002	0.33	1.02	16.3	2	2.1	143.5	0.86	0.09	10.7	0.475	0.95
.999890		740	26.6	90.0	0.002	0.24	1.04	14.8	2	1.8	157.5	0.72	0.09	9.6	0.423	0.96
.999891		730	19.2	91.1	0.003	0.23	0.86	14.2	2	1.9	158.5	0.71	0.07	9.5	0.417	0.91
.999892		750	16.3	79.0	0.002	0.15	0.70	13.1	2	1.6	167.0	0.65	0.08	8.2	0.397	0.83
.999893		700	17.0	83.7	0.002	0.21	0.77	14.1	1	2.0	152.5	0.68	0.11	8.7	0.396	0.82
.999894		690	16.6	81.4	0.002	0.20	0.76	14.4	1	1.8	152.5	0.70	0.09	8.3	0.419	0.75
.999895		790	15.2	78.9	0.002	0.18	0.68	12.9	1	1.6	246	0.61	0.08	8.1	0.374	0.73
.999896		690	15.5	77.9	0.002	0.19	0.69	13.4	1	1.6	162.0	0.68	0.09	8.2	0.412	0.78
.999897		670	15.1	73.5	<0.002	0.22	0.70	12.2	1	1.6	164.5	0.58	0.09	8.2	0.330	0.59
.999898		620	14.3	70.4	<0.002	0.12	0.61	11.9	1	1.5	207	0.59	0.07	8.1	0.343	0.55
.999899		820	25.4	108.5	<0.002	0.02	0.86	15.9	1	2.2	87.7	0.85	0.06	12.1	0.422	0.82
.999900		620	19.5	86.5	<0.002	0.03	0.86	14.3	1	2.1	156.0	0.86	0.06	11.4	0.416	0.63
.999901		660	20.2	94.6	0.003	0.03	0.78	15.0	1	2.2	123.0	0.87	0.07	11.8	0.442	0.68
.999902		660	18.8	101.5	0.003	0.30	0.80	14.5	2	2.0	151.0	0.78	0.08	10.4	0.424	0.68



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**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
.999863		3.3	78	1.7	22.6	129	93.4
.999864		3.3	85	1.6	20.8	133	85.6
.999865		3.0	86	1.4	21.4	134	82.6
.999866		3.5	96	1.7	20.6	122	101.5
.999867		3.6	97	1.8	20.0	117	108.0
.999868		3.2	90	1.5	21.0	125	90.3
.999869		2.7	107	1.3	21.5	134	83.1
.999870		2.8	100	1.3	20.6	126	84.5
.999871		3.6	113	1.9	19.8	118	98.6
.999872		4.0	115	2.0	18.3	113	93.0
.999873		4.4	115	2.0	24.3	113	99.0
.999874		3.7	115	1.9	23.6	117	97.0
.999875		3.4	113	1.7	22.4	116	93.7
.999876		3.4	112	1.7	20.7	123	88.6
.999877		3.4	116	1.7	22.3	116	101.0
.999878		3.9	119	1.8	22.4	129	102.5
.999879		2.8	127	1.3	31.8	155	97.3
.999880		2.6	126	1.2	19.9	129	90.2
.999881		3.0	137	1.2	21.0	122	94.9
.999882		3.0	134	1.2	20.0	122	96.7
.999883		2.8	141	1.1	19.2	119	89.2
.999884		2.8	144	1.1	20.4	115	102.0
.999885		2.9	138	1.3	19.5	133	89.3
.999886		2.9	155	1.3	20.2	144	95.2
.999887		3.2	168	1.4	21.1	154	103.0
.999888		2.9	155	1.3	20.9	151	98.3
.999889		3.1	156	1.3	22.4	154	106.0
.999890		3.1	138	1.1	21.6	144	92.2
.999891		2.7	131	1.1	19.4	128	88.5
.999892		2.4	123	1.0	18.2	121	82.3
.999893		2.5	124	1.1	18.2	124	84.9
.999894		2.4	129	1.0	19.5	122	82.9
.999895		2.4	113	1.0	17.6	113	78.4
.999896		2.4	125	1.0	17.0	123	84.0
.999897		2.3	113	0.9	17.3	103	75.7
.999898		2.2	102	0.9	17.1	93	76.0
.999899		3.0	125	1.3	21.4	132	93.8
.999900		2.7	113	1.3	18.8	107	88.0
.999901		2.7	124	1.3	18.8	216	89.2
.999902		2.6	124	1.2	19.0	117	85.7



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999903		0.65	<0.01	0.12	7.18	52.1	790	1.74	0.31	3.45	0.31	77.9	16.9	72	7.81	43.6
.999904		0.68	<0.01	0.10	7.53	41.0	740	1.85	0.34	2.53	0.34	80.6	18.3	72	6.47	42.2
.999905		0.59	<0.01	0.07	7.31	42.0	660	1.93	0.33	2.72	0.30	80.3	17.9	68	6.07	38.1
.999906		0.54	<0.01	0.07	7.61	125.0	660	1.97	0.30	2.50	0.27	78.5	17.4	76	6.67	42.1
.999907		0.53	<0.01	0.09	7.18	155.0	660	1.90	0.29	2.80	0.28	69.1	17.4	75	6.34	42.0
.999908		0.85	<0.01	0.42	7.34	58.1	590	1.74	0.27	1.75	0.38	67.8	16.4	78	6.18	41.4
.999909		0.89	<0.01	0.24	7.93	47.8	720	2.50	0.27	1.65	0.27	68.1	18.5	85	6.29	39.2
.999910		1.01	<0.01	0.22	8.41	53.6	920	2.51	0.29	1.72	0.33	75.6	22.7	90	8.12	46.5
.999911		0.73	<0.01	0.22	8.40	44.2	890	2.66	0.32	1.57	0.34	73.6	24.1	89	8.71	51.0
.999912		0.89	<0.01	0.23	7.99	43.0	920	2.76	0.32	1.45	0.37	63.8	25.5	94	8.68	55.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999903		4.40	18.95	0.13	2.8	0.14	0.068	2.22	38.8	57.9	1.27	667	1.37	0.41	12.3	39.2
.999904		4.52	20.5	0.12	2.7	0.28	0.072	2.18	38.4	68.3	1.22	751	1.17	0.41	13.3	39.7
.999905		4.41	19.55	0.12	2.6	0.4	0.070	2.08	38.9	66.2	1.31	849	1.13	0.41	13.2	38.7
.999906		4.65	20.5	0.13	3.0	2.37	0.076	2.13	38.1	70.0	1.47	731	1.42	0.41	13.2	43.5
.999907		4.50	20.2	0.13	2.5	0.81	0.075	2.01	33.5	69.2	1.32	648	1.22	0.40	12.9	43.1
.999908		4.48	19.95	0.14	2.5	0.45	0.096	1.95	33.9	72.0	1.27	567	1.19	0.38	11.8	48.0
.999909		4.64	19.40	0.13	2.7	0.57	0.064	2.13	33.9	67.9	1.21	623	1.13	0.40	10.8	53.9
.999910		4.77	21.2	0.16	3.0	0.37	0.073	2.34	37.6	66.1	1.25	662	1.53	0.46	12.6	58.9
.999911		4.83	22.0	0.18	2.9	0.34	0.073	2.35	37.3	70.3	1.26	699	1.67	0.46	13.2	60.6
.999912		4.97	23.8	0.16	2.8	0.33	0.081	2.41	29.6	75.6	1.20	695	1.77	0.47	13.3	64.9

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
.999903		640	22.1	114.0	0.003	0.28	0.90	16.2	2	2.1	147.0	0.96	0.07	14.2	0.407	0.80
.999904		660	22.5	105.0	0.002	0.16	0.94	16.0	2	2.4	126.0	1.03	0.07	13.8	0.405	0.80
.999905		620	24.8	111.0	0.002	0.13	0.89	16.2	2	2.2	119.0	1.03	0.07	14.1	0.399	0.79
.999906		640	21.7	119.0	0.002	0.23	0.76	17.6	2	2.2	114.5	1.00	0.07	13.7	0.418	0.85
.999907		650	24.0	96.3	0.002	0.27	0.76	16.5	2	2.2	120.0	0.94	0.07	11.7	0.403	0.82
.999908		710	22.8	109.0	0.002	0.37	1.06	17.5	2	2.3	99.2	0.84	0.07	11.7	0.404	0.85
.999909		820	16.1	114.5	0.002	0.39	0.96	15.7	2	2.4	131.5	0.82	0.06	10.5	0.429	0.76
.999910		880	18.9	118.0	0.007	0.44	1.14	16.6	2	2.5	134.5	1.02	0.10	11.7	0.472	0.85
.999911		880	19.8	120.0	0.003	0.44	1.20	17.6	2	2.7	130.0	0.97	0.09	11.7	0.473	0.89
.999912		880	20.0	94.9	0.004	0.41	1.30	17.8	3	2.9	132.5	0.99	0.09	9.6	0.476	0.88

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
.999903		3.1	122	1.2	21.8	112	90.2
.999904		3.0	116	1.4	20.8	210	87.4
.999905		3.1	110	1.3	21.2	114	86.0
.999906		3.2	124	1.2	22.6	132	99.3
.999907		2.8	123	1.1	19.8	135	83.8
.999908		2.8	135	1.1	20.2	148	87.3
.999909		2.7	152	1.3	18.6	147	109.5
.999910		3.0	164	1.5	19.6	152	108.0
.999911		2.9	160	1.4	20.2	145	118.0
.999912		2.7	170	1.4	17.8	152	112.5



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12104027**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D - Py/ Ag  
 This report is for 90 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

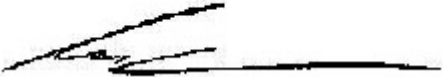
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCMP

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828425		0.47	0.01	0.06	8.56	15.9	540	2.36	0.35	0.22	0.03	51.0	7.7	99	8.79	21.9
L828426		0.55	<0.01	0.07	9.45	18.7	650	2.26	0.34	0.24	0.03	76.6	7.1	103	10.20	19.0
L828427		0.69	<0.01	0.07	9.77	16.4	660	3.04	0.33	0.21	0.12	74.0	23.0	93	10.05	33.3
L828428		0.61	<0.01	0.08	9.60	14.9	550	2.91	0.34	0.24	0.14	77.4	21.5	90	9.73	33.4
L828429		0.85	<0.01	0.06	7.95	11.6	430	2.31	0.24	4.81	0.15	64.3	17.6	73	7.10	28.3
L828430		0.78	<0.01	0.07	9.17	13.9	540	2.55	0.26	1.83	0.13	71.0	20.2	86	8.74	32.5
L828431		0.81	<0.01	0.06	9.85	15.7	600	3.04	0.30	0.33	0.10	78.7	22.5	87	10.35	32.4
L828432		0.61	<0.01	0.06	9.24	13.7	530	2.52	0.28	0.75	0.11	72.0	19.6	89	8.73	30.0
L828433		0.40	0.01	0.10	7.31	14.0	700	2.06	0.24	0.50	0.22	73.5	18.5	83	5.20	30.1
L828434		0.55	<0.01	0.06	7.44	8.1	470	2.57	0.23	0.27	0.05	75.5	18.1	83	6.57	28.0
L828435		0.51	<0.01	0.07	8.38	7.8	550	2.79	0.28	0.25	0.04	79.2	18.9	92	7.61	26.3
L828436		0.58	<0.01	0.06	7.11	7.6	380	2.19	0.23	0.35	0.08	68.8	16.0	82	5.90	22.6
L828437		0.50	<0.01	0.05	7.02	7.2	370	2.09	0.21	0.37	0.07	69.3	16.2	81	5.71	23.0
L828438		0.81	0.01	0.27	7.73	8.7	420	2.13	0.23	0.45	0.06	74.1	17.9	84	6.36	25.3
L828439		0.50	<0.01	0.12	8.01	9.6	440	2.42	0.25	0.44	0.03	74.7	19.0	82	6.95	25.8
L828440		0.81	<0.01	0.10	7.93	9.5	550	2.40	0.24	0.43	0.03	77.6	19.3	86	7.01	26.5
L828441		0.24	<0.01	0.10	7.81	9.6	520	2.19	0.24	0.43	0.02	73.6	18.2	85	6.74	25.5
L828442		0.53	<0.01	0.13	8.42	14.2	810	2.24	0.29	0.95	0.22	70.8	19.2	91	6.87	42.4
L828443		0.58	<0.01	0.10	9.61	12.4	610	2.77	0.29	0.37	0.10	84.3	18.9	96	8.34	32.1
L828444		0.52	<0.01	0.06	10.10	11.4	600	3.01	0.33	0.30	0.10	71.4	21.2	102	10.30	34.5
L828445		0.64	<0.01	0.08	10.30	12.1	650	2.84	0.34	0.26	0.08	75.7	16.1	107	10.70	29.6
L828446		0.61	<0.01	0.06	8.78	13.9	500	2.83	0.28	0.52	0.05	80.9	20.3	95	8.94	29.6
L828447		0.65	<0.01	0.03	9.66	13.0	560	3.20	0.37	0.29	0.08	77.2	21.8	92	10.40	31.9
L828448		0.91	<0.01	0.04	7.25	8.5	390	1.94	0.20	4.72	0.07	61.1	14.8	68	6.80	22.4
L828449		0.72	<0.01	0.07	8.09	9.6	450	2.21	0.25	3.01	0.09	60.4	16.5	78	7.47	25.3
L828450		0.59	<0.01	0.09	6.71	140.5	560	1.62	0.21	2.21	0.30	56.8	17.6	70	4.36	43.2
L828451		0.48	<0.01	0.08	6.37	87.6	490	1.61	0.20	2.86	0.26	63.7	15.4	66	4.07	36.4
L828452		0.74	<0.01	0.08	8.58	39.5	490	2.32	0.31	2.28	0.18	68.8	18.3	81	7.85	29.2
L828453		0.67	<0.01	0.06	9.10	31.8	460	2.65	0.33	2.11	0.10	73.4	19.6	82	9.14	28.9
L828454		0.63	<0.01	0.06	8.45	28.1	430	2.51	0.29	2.69	0.13	58.6	17.8	77	8.06	25.6
L828455		0.51	<0.01	0.06	9.12	32.0	480	2.70	0.31	2.11	0.16	68.2	19.5	80	9.07	27.8
L828456		0.80	<0.01	0.08	7.99	46.4	380	2.39	0.28	3.93	0.24	67.3	18.6	79	8.04	29.6
L828457		0.48	<0.01	0.09	7.43	53.8	340	1.99	0.27	5.65	0.30	71.3	16.8	79	6.90	36.7
L828458		0.65	<0.01	0.10	7.22	61.5	350	2.00	0.30	5.45	0.27	69.1	17.0	77	6.98	34.4
L828459		0.78	<0.01	0.10	7.61	62.9	360	2.00	0.28	5.83	0.29	74.7	16.9	78	7.26	33.7
L828460		0.57	<0.01	0.10	8.84	2630	930	2.80	0.38	0.31	1.81	40.5	21.3	95	6.73	41.9
L828461		0.62	<0.01	0.06	9.85	2590	970	2.91	0.40	0.26	1.20	36.9	18.9	91	7.38	33.5
L828462		0.71	<0.01	0.03	9.92	530	1070	3.22	0.43	0.23	0.22	24.1	18.7	94	9.04	30.3
L828463		0.58	<0.01	0.03	9.61	222	1020	3.15	0.43	0.25	0.15	25.0	18.4	98	8.51	30.3
L828464		0.73	<0.01	0.03	10.00	260	1150	2.95	0.40	1.35	0.18	72.3	19.4	92	7.61	27.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828425		4.17	25.9	0.13	3.0	0.04	0.079	2.77	22.1	71.3	0.86	187	1.44	0.41	13.4	30.2
L828426		5.28	25.7	0.13	3.5	0.04	0.075	2.74	40.4	75.5	0.90	168	2.03	0.38	13.0	30.4
L828427		5.32	26.0	0.20	2.9	0.04	0.083	2.79	36.7	90.3	1.17	251	1.32	0.36	12.5	65.2
L828428		5.07	25.2	0.18	2.9	0.04	0.083	2.73	37.9	85.4	1.20	320	1.17	0.36	12.2	64.3
L828429		5.35	19.30	0.13	2.6	0.04	0.064	2.17	31.8	51.5	2.62	3230	1.71	0.32	10.2	50.9
L828430		4.75	23.1	0.15	3.0	0.05	0.071	2.57	33.6	67.3	1.66	1320	1.66	0.36	11.6	61.0
L828431		4.82	25.6	0.18	3.3	0.04	0.079	2.86	38.8	82.5	1.26	322	1.11	0.37	12.8	66.6
L828432		4.92	23.8	0.15	2.9	0.03	0.071	2.61	34.8	72.9	1.36	654	1.06	0.34	11.8	60.1
L828433		4.69	18.85	0.14	2.7	0.05	0.062	1.76	36.0	60.6	0.64	510	1.27	0.57	11.9	46.8
L828434		4.61	18.55	0.17	3.0	0.03	0.064	1.92	38.7	63.9	0.34	389	0.67	0.52	11.5	50.1
L828435		4.85	20.3	0.15	3.1	0.03	0.062	2.20	39.7	71.2	0.40	482	0.68	0.48	11.6	55.2
L828436		3.91	17.90	0.13	2.7	0.02	0.052	1.82	34.3	60.3	0.36	441	0.52	0.53	10.7	45.6
L828437		3.97	17.65	0.13	2.9	0.02	0.050	1.77	32.9	59.1	0.37	450	0.46	0.55	10.5	45.0
L828438		4.40	19.75	0.15	3.0	0.02	0.058	2.13	35.9	60.5	0.94	300	0.85	0.45	11.8	48.6
L828439		4.52	21.0	0.16	2.9	0.03	0.067	2.16	37.5	62.3	0.95	287	0.81	0.47	12.4	50.6
L828440		4.55	20.6	0.17	2.9	0.03	0.059	2.18	38.2	66.9	1.02	292	0.95	0.45	12.9	53.4
L828441		4.44	20.2	0.15	3.1	0.03	0.061	2.14	35.7	65.2	0.98	286	1.32	0.46	12.2	50.9
L828442		5.03	20.2	0.15	2.8	0.08	0.066	2.33	35.2	66.8	0.96	583	1.27	0.49	11.8	51.3
L828443		4.99	24.3	0.20	3.0	0.03	0.080	2.59	41.0	80.5	0.44	593	0.99	0.41	12.7	52.4
L828444		5.26	26.1	0.16	3.0	0.03	0.083	2.76	32.7	96.4	0.52	392	0.84	0.41	13.0	60.3
L828445		4.68	26.4	0.16	3.1	0.05	0.081	2.85	35.9	103.0	0.54	317	0.93	0.41	13.1	44.0
L828446		4.77	22.5	0.16	3.0	0.02	0.073	2.40	40.7	93.5	0.91	370	1.68	0.41	12.0	60.2
L828447		4.89	25.9	0.17	2.9	0.02	0.092	2.84	37.3	101.5	1.12	241	0.73	0.42	12.9	67.1
L828448		4.95	17.25	0.13	2.5	0.02	0.056	1.95	30.4	61.8	2.54	1680	0.59	0.35	9.3	43.1
L828449		4.71	20.3	0.13	2.5	0.02	0.068	2.26	30.1	69.2	1.92	1160	0.66	0.40	10.7	50.2
L828450		4.86	16.60	0.14	2.6	0.26	0.056	1.74	28.7	49.5	0.98	587	0.97	0.50	9.9	46.0
L828451		4.45	15.05	0.15	2.7	1.63	0.059	1.66	30.5	43.9	0.96	594	1.10	0.58	9.9	41.7
L828452		4.59	22.1	0.14	2.5	0.1	0.065	2.70	32.7	103.5	1.30	496	1.12	0.37	12.3	49.3
L828453		4.64	23.7	0.17	2.5	0.07	0.074	2.89	36.5	112.0	1.36	507	0.97	0.36	13.1	52.9
L828454		4.53	21.8	0.13	2.5	0.04	0.064	2.76	27.5	108.5	1.45	572	0.70	0.30	12.3	50.9
L828455		4.61	23.7	0.14	2.5	0.05	0.071	2.87	32.7	119.5	1.34	479	1.02	0.25	12.9	54.3
L828456		4.32	21.0	0.15	2.4	0.08	0.068	2.48	34.7	95.8	1.59	1240	6.74	0.27	11.7	48.7
L828457		4.51	18.55	0.14	2.3	0.09	0.070	2.20	33.2	100.0	1.68	1600	13.70	0.31	11.2	52.0
L828458		4.25	17.90	0.15	2.5	0.12	0.058	2.27	31.7	90.4	1.43	1510	19.95	0.47	10.9	54.0
L828459		4.42	17.95	0.15	2.6	0.12	0.067	2.27	34.8	89.8	1.56	1620	21.8	0.47	10.9	54.8
L828460		5.93	26.2	0.12	3.6	0.14	0.086	3.00	13.4	71.5	0.65	874	1.45	0.30	27.4	57.7
L828461		5.71	26.8	0.14	3.5	0.10	0.074	3.32	12.4	65.6	0.48	683	0.94	0.29	27.4	49.7
L828462		5.75	29.0	0.11	3.8	0.04	0.087	3.54	8.3	70.9	0.43	428	0.54	0.30	30.8	48.4
L828463		5.29	29.9	0.11	3.7	0.02	0.083	3.61	8.5	75.1	0.67	385	0.40	0.29	31.3	46.1
L828464		5.99	27.8	0.19	3.5	0.01	0.082	3.36	27.4	68.0	1.35	814	0.38	0.26	28.9	50.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
L828425		770	21.1	123.5	0.003	0.19	0.92	18.5	2	3.4	102.5	0.98	0.06	9.7	0.491	1.03
L828426		720	19.4	163.5	0.002	0.18	1.03	19.4	2	3.3	104.0	0.97	0.07	12.6	0.481	1.02
L828427		650	23.1	155.5	<0.002	2.04	1.04	19.2	2	3.3	82.1	0.93	0.07	12.4	0.475	1.03
L828428		650	21.1	154.0	0.002	1.96	0.82	19.8	2	3.2	83.9	0.95	0.08	12.4	0.473	1.00
L828429		1020	16.8	121.5	<0.002	1.65	0.67	14.4	2	2.4	101.5	0.81	0.07	10.4	0.395	0.86
L828430		980	17.5	128.5	0.003	1.74	0.73	17.9	2	3.0	87.5	0.90	0.05	11.0	0.449	1.05
L828431		670	18.1	163.5	<0.002	2.13	0.79	20.0	2	3.3	86.8	0.99	0.07	11.9	0.493	1.03
L828432		740	17.4	141.5	0.003	1.97	0.70	18.4	2	2.7	82.8	0.90	0.07	11.4	0.468	1.00
L828433		750	16.8	107.5	<0.002	0.03	1.06	15.0	2	2.5	110.0	0.90	0.06	10.4	0.447	0.61
L828434		860	17.3	114.0	0.002	0.11	0.65	15.0	1	2.5	93.4	0.88	<0.05	12.5	0.420	0.72
L828435		910	19.7	130.5	0.002	0.08	0.65	16.1	2	2.7	126.5	0.94	0.06	12.2	0.452	0.80
L828436		750	11.5	106.5	0.002	0.20	0.56	13.4	1	2.5	82.3	0.83	0.06	10.9	0.405	0.60
L828437		770	11.9	101.0	0.002	0.25	0.57	12.8	1	2.3	80.8	0.86	<0.05	10.7	0.406	0.63
L828438		730	17.9	116.5	<0.002	1.51	0.67	14.8	2	2.7	88.6	0.91	0.06	11.5	0.435	0.73
L828439		740	18.8	125.0	0.002	1.60	0.72	15.8	2	2.8	106.5	0.94	0.06	11.9	0.434	0.78
L828440		730	19.0	130.5	0.002	1.57	0.74	15.8	2	3.1	108.5	0.95	0.07	11.5	0.449	0.73
L828441		740	18.4	122.5	<0.002	1.51	0.77	14.9	2	2.9	101.0	0.92	0.05	11.2	0.439	0.73
L828442		780	17.8	117.0	0.003	0.03	0.95	16.7	2	2.6	99.7	0.95	0.08	11.5	0.492	0.75
L828443		780	23.1	150.5	<0.002	0.04	1.04	18.3	1	3.2	121.0	0.98	0.05	12.5	0.479	0.88
L828444		850	20.6	153.5	<0.002	0.10	0.83	20.3	1	3.3	107.5	0.99	0.08	12.0	0.495	0.92
L828445		820	23.6	170.5	0.002	0.21	0.81	19.6	2	3.5	151.0	1.05	0.05	12.4	0.517	1.05
L828446		920	21.5	141.5	<0.002	1.80	0.82	17.6	2	3.1	97.3	0.92	0.05	12.3	0.448	0.80
L828447		870	22.4	162.5	<0.002	2.08	0.72	18.6	2	3.3	98.0	0.95	0.05	12.2	0.494	0.99
L828448		820	15.2	110.5	<0.002	1.39	0.55	13.5	2	2.3	89.9	0.70	<0.05	8.7	0.356	0.65
L828449		900	17.8	96.8	<0.002	1.66	0.61	14.8	1	2.7	91.3	0.81	0.05	9.2	0.404	0.70
L828450		850	16.6	90.6	0.002	0.04	0.89	14.3	1	2.1	115.5	0.76	0.09	9.0	0.403	0.66
L828451		1310	15.9	88.6	<0.002	0.07	0.76	13.2	2	2.0	106.0	0.75	<0.05	8.8	0.379	0.57
L828452		840	19.7	121.0	0.002	1.57	0.69	15.5	2	3.1	105.5	0.92	0.06	10.3	0.434	1.08
L828453		880	20.9	148.0	0.002	2.00	0.77	16.8	2	3.2	106.5	0.99	0.08	11.0	0.445	1.31
L828454		1020	17.2	102.5	0.002	1.94	0.60	14.3	1	3.1	115.0	0.99	0.07	9.2	0.422	0.99
L828455		790	19.1	123.5	<0.002	2.06	0.70	15.7	2	3.3	109.0	0.96	0.05	10.3	0.432	1.05
L828456		1100	17.2	121.0	0.004	2.08	1.03	14.0	2	2.9	119.5	0.88	0.05	10.1	0.386	1.21
L828457		1270	20.9	121.0	0.006	2.09	1.17	14.6	2	2.8	139.5	0.81	0.06	10.7	0.369	1.49
L828458		1360	19.7	115.0	0.010	2.41	1.37	13.6	2	2.6	128.5	0.83	<0.05	10.6	0.373	2.14
L828459		1410	19.2	135.0	0.014	2.46	1.48	14.4	2	2.6	134.0	0.83	<0.05	11.8	0.375	2.21
L828460		860	28.0	111.5	0.002	0.01	3.49	17.0	1	3.2	127.0	1.67	0.16	8.5	0.568	9.43
L828461		680	29.6	128.5	<0.002	0.01	3.57	15.6	1	3.2	116.5	1.60	0.12	9.5	0.533	5.93
L828462		640	24.0	134.5	0.002	0.03	1.01	15.6	1	3.4	116.0	1.72	0.13	7.3	0.549	2.48
L828463		630	25.5	111.5	<0.002	0.06	0.65	15.2	1	3.5	112.5	1.71	0.13	7.0	0.564	1.93
L828464		690	24.1	98.9	<0.002	0.14	0.60	16.1	1	3.3	155.0	1.64	0.13	12.1	0.543	1.74

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828425		2.7	172	1.6	9.8	61	122.0
L828426		2.6	168	1.5	14.2	73	120.5
L828427		2.9	170	1.5	18.3	128	116.0
L828428		2.7	169	1.5	18.1	161	111.0
L828429		3.2	134	1.4	20.1	135	106.5
L828430		3.1	160	1.4	18.3	150	107.5
L828431		3.0	179	1.5	19.0	120	120.5
L828432		2.9	167	1.5	17.8	136	112.0
L828433		2.6	134	1.4	18.1	116	104.0
L828434		2.7	118	1.3	22.7	92	112.5
L828435		2.7	136	1.4	22.8	90	112.0
L828436		2.4	114	1.2	18.3	101	102.0
L828437		2.3	113	1.3	18.4	97	105.5
L828438		2.6	127	1.4	18.8	100	114.5
L828439		2.6	131	1.3	19.0	90	112.5
L828440		2.7	132	1.4	20.2	87	123.0
L828441		2.6	128	1.4	19.2	84	113.0
L828442		2.7	169	1.4	18.4	135	107.5
L828443		2.7	160	1.5	18.3	144	115.5
L828444		2.8	172	1.5	17.9	149	113.0
L828445		2.9	176	1.6	16.1	95	116.0
L828446		2.7	150	1.4	20.9	103	113.5
L828447		2.9	172	1.6	20.3	140	113.5
L828448		2.0	110	1.1	17.2	112	90.3
L828449		2.0	130	1.2	16.8	132	96.6
L828450		2.2	123	1.2	18.8	175	98.1
L828451		2.1	103	1.0	21.0	149	100.5
L828452		2.1	121	1.4	17.1	132	98.2
L828453		2.4	119	1.5	19.4	100	107.0
L828454		2.1	114	1.4	17.3	114	91.3
L828455		2.3	121	1.5	16.5	114	98.6
L828456		4.1	114	1.4	19.5	112	95.2
L828457		6.1	111	1.4	24.9	121	82.5
L828458		7.3	125	1.5	23.6	107	81.4
L828459		7.8	124	1.5	25.5	104	84.4
L828460		3.8	134	1.8	13.0	932	142.0
L828461		3.7	112	1.8	11.1	672	139.0
L828462		2.7	110	1.8	8.2	207	153.5
L828463		2.5	114	1.8	8.6	185	150.0
L828464		2.5	107	1.7	18.3	204	143.0



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828465		0.48	<0.01	0.08	9.72	110.5	1020	2.93	0.42	0.90	0.13	65.0	17.9	86	7.35	29.9
L828466		0.76	<0.01	0.04	9.90	141.5	1110	3.06	0.40	0.93	0.13	68.6	19.2	89	7.89	29.7
L828467		0.74	<0.01	0.04	10.35	138.0	1140	3.15	0.40	0.99	0.11	71.0	19.3	91	8.30	30.7
L828468		0.71	<0.01	0.05	9.38	13.6	1160	2.99	0.41	1.13	<0.02	61.2	19.3	89	6.77	28.7
L828469		0.59	<0.01	0.04	9.71	25.5	1150	2.68	0.38	2.18	0.03	88.0	21.7	83	6.20	25.5
L828470		0.89	<0.01	0.12	6.95	1450	1280	1.52	0.26	4.63	0.98	76.7	16.9	74	6.20	50.0
L828471		0.46	<0.01	0.13	6.21	1355	990	1.46	0.21	4.65	0.92	71.1	15.5	69	5.58	47.7
L828472		0.42	<0.01	0.04	9.61	763	760	2.52	0.42	0.91	0.12	57.9	24.1	91	6.48	42.4
L828473		0.55	<0.01	0.06	9.79	668	750	2.98	0.59	0.75	0.16	46.2	22.1	91	6.72	53.0
L828474		0.71	<0.01	0.04	9.49	448	740	3.07	0.50	0.49	0.10	42.8	25.1	86	7.00	40.9
L828475		0.46	<0.01	0.03	9.54	239	760	3.00	0.58	0.23	<0.02	22.7	25.6	80	6.48	87.0
L828476		0.93	<0.01	0.02	9.24	287	900	3.00	0.47	0.29	0.04	26.4	26.6	86	6.56	36.0
L828477		0.86	<0.01	0.02	9.57	314	930	3.12	0.43	0.46	0.04	35.9	28.5	88	6.92	23.4
L828478		0.62	<0.01	0.10	10.40	36.6	820	3.40	0.79	0.19	<0.02	31.4	31.4	86	7.20	100.0
L828479		0.59	<0.01	0.07	8.77	143.5	740	2.97	0.52	0.25	0.07	26.8	27.5	83	6.44	99.8
L828480		0.85	<0.01	0.07	9.80	65.6	1260	3.07	0.41	0.22	0.03	26.4	26.9	86	7.21	36.9
L828481		0.83	<0.01	0.03	9.46	79.1	1510	3.11	0.35	1.51	0.04	52.3	25.4	79	7.19	21.7
L828482		0.88	<0.01	0.05	9.25	1245	1020	3.81	0.48	0.27	0.17	36.3	23.1	100	10.35	25.2
L828483		0.67	<0.01	0.05	9.33	1295	1010	3.43	0.50	0.30	0.30	30.6	25.1	104	9.57	25.3
L828484		0.58	<0.01	0.06	9.48	1005	940	3.85	0.50	0.26	0.25	28.8	34.6	106	10.40	22.9
L828485		0.62	<0.01	0.07	9.42	772	910	3.35	0.44	1.11	0.38	49.8	30.3	100	8.90	17.8
L828486		0.56	<0.01	0.03	9.43	44.0	670	3.06	0.48	0.18	0.03	25.8	84.6	88	7.33	46.9
L828487		0.64	<0.01	0.03	9.50	109.0	1050	3.09	0.50	0.20	0.04	35.2	46.8	86	7.81	56.3
L828488		1.07	<0.01	0.02	8.31	41.4	620	2.75	0.51	0.15	<0.02	27.5	61.3	81	6.74	49.8
L828489		0.82	<0.01	0.01	8.33	29.7	700	2.99	0.52	0.16	<0.02	30.6	44.0	80	6.99	49.8
L828490		0.71	<0.01	0.03	9.38	50.3	730	3.01	0.61	0.18	0.02	25.8	26.6	81	7.33	47.7
L828491		0.82	<0.01	0.01	9.38	47.8	820	2.90	0.35	0.17	<0.02	27.0	27.8	86	7.50	28.4
L828492		0.87	<0.01	0.01	9.61	30.4	710	3.06	0.36	0.16	0.02	22.2	22.1	86	7.40	23.7
L828493		0.69	<0.01	0.01	10.75	42.8	790	3.36	0.47	0.20	0.02	73.5	24.5	83	9.66	74.6
L828494		0.58	<0.01	0.09	6.96	15.9	530	1.75	0.22	3.45	0.22	73.8	17.1	64	5.04	49.7
L828495		0.43	<0.01	0.11	7.35	15.0	570	1.74	0.22	3.42	0.22	73.4	17.8	72	5.54	48.3
L828496		0.73	<0.01	0.09	8.24	86.9	610	2.07	0.23	1.01	0.18	85.3	17.4	86	8.32	38.3
L828497		0.72	<0.01	0.09	8.04	22.4	600	1.88	0.21	2.24	0.23	71.0	16.3	82	8.06	35.4
L828498		0.56	<0.01	0.07	7.32	19.7	530	1.91	0.19	9.98	0.22	80.6	16.1	68	7.03	28.0
L828499		0.76	<0.01	0.10	7.68	20.3	580	1.97	0.21	5.63	0.18	76.9	16.6	76	7.64	32.9
L828500		0.65	<0.01	0.07	9.34	28.6	780	2.92	0.33	3.60	0.05	85.1	18.8	91	7.85	27.6
.999800		0.77	<0.01	0.05	10.40	28.4	800	2.74	0.36	1.22	0.06	99.2	19.1	96	10.10	27.8
.999801		0.83	<0.01	0.11	10.85	27.0	880	2.85	0.37	1.36	0.07	119.5	19.0	99	10.70	26.7
.999802		0.66	<0.01	0.09	8.95	25.5	730	2.35	0.28	4.44	0.09	99.3	17.9	81	8.57	25.9
.999803		0.61	<0.01	0.09	10.15	6.1	850	2.90	0.32	1.22	0.03	84.1	19.8	91	8.63	29.7



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 Plus Appendix Pages  
 Finalized Date: 21- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
L828465		5.62	27.3	0.17	3.4	0.01	0.076	3.18	24.2	68.2	1.18	703	0.29	0.25	28.3	45.0
L828466		5.64	28.5	0.17	3.7	0.02	0.082	3.33	24.3	69.2	1.20	705	0.33	0.30	30.6	48.7
L828467		5.78	29.2	0.15	3.4	0.01	0.080	3.42	26.8	72.6	1.26	763	0.38	0.30	30.3	48.9
L828468		5.11	27.7	0.15	3.4	<0.01	0.071	3.29	22.2	66.9	1.17	680	0.26	0.26	27.2	44.3
L828469		7.04	25.7	0.19	3.0	<0.01	0.069	3.10	36.1	58.6	1.72	832	0.27	0.25	25.4	52.9
L828470		5.19	16.25	0.16	2.6	0.24	0.061	1.93	34.4	54.7	1.24	1140	1.28	0.48	12.8	48.1
L828471		4.75	14.85	0.13	2.4	0.21	0.055	1.77	31.7	48.4	1.16	880	1.26	0.45	12.1	44.3
L828472		5.38	27.3	0.14	2.6	0.06	0.071	2.65	17.9	114.0	1.02	703	0.76	0.55	15.9	46.5
L828473		5.57	28.9	0.12	2.6	0.05	0.071	2.60	14.9	125.5	0.96	623	0.90	0.57	15.7	45.7
L828474		4.85	29.2	0.13	2.7	0.03	0.073	2.62	13.9	115.0	0.87	749	0.89	0.57	15.4	45.6
L828475		4.99	29.9	0.12	2.5	<0.01	0.072	2.59	7.1	127.0	0.80	701	0.96	0.60	15.0	46.5
L828476		5.66	28.3	0.10	2.7	0.01	0.069	2.65	8.0	113.0	0.83	833	0.35	0.52	15.1	46.2
L828477		6.03	29.2	0.11	2.6	0.02	0.074	2.71	10.5	121.0	0.89	772	0.50	0.52	15.4	47.6
L828478		4.08	31.8	0.11	3.4	<0.01	0.091	3.00	10.1	97.4	0.85	1360	3.09	0.79	16.2	50.2
L828479		4.62	29.2	0.12	2.7	0.02	0.071	2.72	8.5	109.5	0.77	1050	2.02	0.61	15.2	48.3
L828480		5.91	28.4	0.13	2.4	0.01	0.071	2.92	8.0	105.5	0.88	1360	0.62	0.56	14.8	50.0
L828481		5.88	27.8	0.16	2.3	0.01	0.078	2.74	17.0	104.0	0.87	1150	0.41	0.53	15.0	47.8
L828482		4.92	29.0	0.13	4.9	0.02	0.095	3.37	12.0	77.2	0.77	2710	7.83	0.37	35.5	43.4
L828483		5.28	28.2	0.14	4.7	0.02	0.086	3.42	10.0	75.7	0.77	3770	8.93	0.39	34.9	44.8
L828484		4.78	29.9	0.10	4.7	<0.01	0.099	3.46	9.7	78.9	0.74	3010	8.16	0.41	36.0	46.9
L828485		5.42	27.8	0.19	4.3	0.02	0.090	3.34	17.2	71.5	0.95	5250	9.40	0.39	31.6	42.2
L828486		4.52	28.4	0.14	2.6	0.01	0.070	2.64	7.9	102.5	1.00	569	0.62	0.63	15.2	56.2
L828487		4.71	29.0	0.14	3.1	0.01	0.085	2.81	11.0	96.8	1.03	800	1.27	0.58	17.0	50.9
L828488		4.77	26.3	0.22	2.9	<0.01	0.079	2.64	8.8	91.1	1.00	459	0.59	0.54	14.6	50.2
L828489		4.49	27.3	0.18	2.9	<0.01	0.075	2.58	10.0	96.5	0.96	448	0.48	0.60	15.2	48.2
L828490		4.96	27.0	0.12	2.7	<0.01	0.069	2.69	8.0	126.5	0.97	574	0.65	0.57	15.1	45.6
L828491		5.54	27.5	0.13	2.8	<0.01	0.071	2.83	8.7	118.5	1.01	657	0.48	0.48	15.4	46.4
L828492		5.79	28.4	0.10	2.4	<0.01	0.072	2.79	6.9	125.5	0.98	704	0.34	0.50	15.2	47.1
L828493		5.25	29.2	0.12	3.1	<0.01	0.096	2.84	30.7	112.0	1.03	795	0.87	0.57	16.6	47.0
L828494		4.60	16.60	0.11	2.9	0.08	0.066	1.90	36.8	48.5	1.26	667	0.95	0.51	11.8	39.4
L828495		4.74	17.30	0.12	2.7	0.08	0.069	1.97	36.3	50.3	1.17	656	1.31	0.50	11.5	42.4
L828496		5.81	19.35	0.17	3.0	0.07	0.080	2.15	40.8	61.5	0.91	741	2.62	0.40	11.7	52.8
L828497		4.53	17.90	0.11	2.8	0.06	0.079	2.14	34.7	57.5	1.15	577	1.37	0.42	11.6	48.9
L828498		4.00	17.55	0.10	3.2	0.04	0.065	2.02	40.5	55.2	1.27	961	1.13	0.33	17.0	39.9
L828499		4.22	18.10	0.11	3.0	0.04	0.072	2.10	38.6	57.2	1.15	810	1.20	0.35	16.3	44.8
L828500		4.76	24.5	0.15	4.6	0.02	0.097	2.81	38.4	73.0	1.07	1400	0.58	0.44	32.5	39.7
.999800		5.23	25.9	0.17	4.9	0.02	0.113	3.03	46.8	71.3	1.13	1140	0.63	0.43	34.0	40.1
.999801		5.56	25.1	0.35	5.0	0.02	0.108	3.21	58.4	72.6	1.23	1450	0.99	0.44	30.7	39.4
.999802		4.83	21.0	0.12	4.2	0.02	0.097	2.65	48.1	62.3	1.10	1420	0.97	0.39	26.5	37.7
.999803		5.79	26.4	0.18	3.7	0.01	0.091	3.07	38.1	69.7	0.89	687	0.35	0.38	27.7	46.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Finalized Date: 21- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
L828465		630	35.9	103.5	0.002	0.19	0.49	15.5	1	3.4	143.0	1.59	0.11	11.5	0.513	1.25
L828466		640	30.4	105.0	<0.002	0.18	0.49	15.9	2	3.4	146.0	1.71	0.11	11.3	0.538	1.17
L828467		660	29.2	116.0	0.002	0.15	0.54	16.6	1	3.3	154.0	1.66	0.13	12.2	0.547	1.39
L828468		630	22.3	97.0	<0.002	0.16	0.36	15.2	1	3.3	175.5	1.68	0.09	11.1	0.536	0.79
L828469		610	28.1	91.2	<0.002	0.37	0.41	14.6	1	2.8	222	1.51	0.10	12.9	0.502	0.68
L828470		1060	21.9	107.5	<0.002	0.07	1.44	15.7	1	2.1	185.5	0.89	0.07	11.0	0.441	17.60
L828471		910	18.8	94.1	<0.002	0.06	1.40	14.4	1	1.8	184.0	0.87	0.07	10.5	0.425	15.35
L828472		540	52.7	81.5	0.003	0.01	0.79	16.5	1	3.2	115.5	1.25	<0.05	11.3	0.459	3.11
L828473		600	91.8	71.8	0.003	0.01	0.79	16.6	1	3.3	116.5	1.18	<0.05	9.7	0.446	3.55
L828474		480	33.2	82.5	0.002	0.01	0.69	16.8	1	3.4	108.0	1.13	0.05	9.6	0.427	2.68
L828475		460	23.6	65.6	<0.002	0.01	0.62	15.3	1	3.6	103.5	1.16	0.06	6.5	0.416	1.18
L828476		440	20.7	65.9	<0.002	0.06	0.70	14.9	1	3.4	103.5	1.18	0.05	7.1	0.433	1.43
L828477		470	21.2	72.9	<0.002	0.06	0.70	15.6	1	3.5	112.5	1.15	<0.05	8.1	0.436	1.54
L828478		420	286	96.2	<0.002	0.03	0.65	17.8	1	3.7	110.5	1.31	0.06	8.8	0.484	0.84
L828479		410	80.3	70.0	0.002	0.03	0.62	15.0	1	3.4	97.3	1.18	0.05	7.0	0.433	1.58
L828480		440	31.7	81.0	<0.002	0.04	0.61	15.8	1	3.4	118.5	1.12	<0.05	6.7	0.435	1.13
L828481		420	20.8	83.1	<0.002	0.04	0.62	15.6	<1	3.5	163.5	1.08	0.07	10.3	0.401	1.32
L828482		610	33.8	122.0	0.004	0.03	2.12	16.9	1	4.0	92.3	2.16	0.19	8.5	0.695	1.10
L828483		700	41.1	114.5	0.002	0.03	2.31	16.7	1	3.9	92.8	2.03	0.14	8.0	0.702	1.17
L828484		580	45.4	118.0	0.002	0.05	2.80	17.1	1	4.4	100.5	2.04	0.18	7.5	0.717	1.16
L828485		580	102.5	104.5	0.003	0.11	2.82	15.7	1	3.6	99.8	1.93	0.23	9.4	0.672	0.99
L828486		420	36.2	70.1	<0.002	0.04	0.72	15.8	1	3.5	83.0	1.12	<0.05	6.7	0.421	0.75
L828487		420	59.5	83.3	<0.002	0.05	0.86	16.7	1	3.6	89.5	1.25	0.07	8.3	0.454	0.81
L828488		350	30.1	61.4	<0.002	0.04	0.51	14.1	1	3.4	77.0	1.12	0.05	7.0	0.429	0.75
L828489		380	32.7	65.7	<0.002	0.03	0.55	14.6	1	3.5	83.3	1.17	<0.05	7.1	0.428	0.70
L828490		440	44.0	69.8	<0.002	0.05	0.59	14.8	1	3.4	92.0	1.19	<0.05	7.1	0.434	0.77
L828491		430	29.5	73.0	0.003	0.09	0.51	14.8	1	3.4	90.1	1.22	0.05	7.3	0.446	0.75
L828492		390	23.8	66.2	<0.002	0.02	0.51	15.7	1	3.4	92.7	1.15	<0.05	6.6	0.431	0.76
L828493		440	47.8	108.5	<0.002	0.03	0.48	16.7	2	3.5	114.0	1.24	0.07	12.9	0.455	0.71
L828494		690	19.6	98.1	0.002	0.03	0.69	14.1	2	2.0	166.5	0.81	0.09	11.2	0.424	0.53
L828495		770	19.6	105.5	<0.002	0.04	0.68	14.4	2	2.1	176.0	0.78	0.08	10.6	0.419	0.55
L828496		1280	18.3	131.0	0.003	0.39	0.76	15.3	3	2.5	116.5	0.80	0.08	11.1	0.433	0.72
L828497		910	17.6	112.0	0.002	1.02	0.71	14.0	2	2.4	111.5	0.80	0.07	10.2	0.422	0.77
L828498		830	18.2	116.0	<0.002	1.04	0.56	13.3	2	2.1	378	1.04	0.08	10.5	0.411	0.60
L828499		820	17.8	115.0	0.002	1.08	0.62	13.5	2	2.3	236	1.00	0.10	10.6	0.441	0.68
L828500		890	26.3	82.7	<0.002	0.71	0.41	13.9	3	3.3	163.5	2.00	0.19	12.6	0.675	0.71
.999800		770	24.2	130.0	0.002	0.56	0.43	15.0	3	3.8	119.5	1.97	0.18	14.1	0.699	0.73
.999801		800	29.6	143.0	<0.002	0.71	0.50	15.5	3	3.7	123.0	1.97	0.17	16.9	0.700	0.81
.999802		790	25.0	104.5	0.002	0.77	0.49	13.3	3	3.1	180.5	1.63	0.14	13.5	0.581	0.66
.999803		710	24.6	97.7	<0.002	0.02	0.28	13.9	2	3.3	125.5	1.67	0.13	13.5	0.563	0.61



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828465		2.5	100	1.7	16.5	159	139.0
L828466		2.4	103	1.8	16.9	159	150.0
L828467		2.5	105	1.8	17.8	159	148.5
L828468		2.3	103	1.8	14.9	129	131.0
L828469		2.2	96	1.7	17.7	136	125.0
L828470		2.9	138	1.3	23.7	482	95.1
L828471		2.8	128	1.2	20.4	429	85.1
L828472		2.1	106	2.1	14.1	143	86.5
L828473		2.9	114	2.0	13.4	159	84.7
L828474		2.7	98	2.1	13.1	124	87.7
L828475		2.4	93	2.2	8.5	100	82.8
L828476		2.2	96	2.5	9.2	115	86.4
L828477		2.0	93	2.4	11.5	123	86.5
L828478		5.3	119	2.3	10.6	96	103.5
L828479		3.0	101	2.1	8.9	115	89.4
L828480		2.2	100	2.4	8.7	116	80.9
L828481		1.8	86	2.4	13.3	110	79.2
L828482		3.2	140	2.4	12.5	159	187.0
L828483		3.4	143	2.4	11.3	205	180.5
L828484		3.4	148	2.5	11.8	162	186.5
L828485		3.1	141	2.3	18.0	236	168.0
L828486		1.9	99	1.7	8.6	107	86.5
L828487		2.7	105	2.0	10.9	112	104.0
L828488		2.0	107	1.8	8.6	107	92.3
L828489		2.1	109	1.9	9.1	102	93.5
L828490		3.1	100	2.1	8.4	106	83.1
L828491		1.8	97	2.4	9.3	109	83.4
L828492		1.6	89	2.1	7.7	105	79.7
L828493		3.0	115	2.2	15.2	95	88.8
L828494		2.5	119	1.2	19.0	115	97.0
L828495		2.5	128	1.1	19.2	124	90.6
L828496		2.8	152	1.3	24.4	152	101.0
L828497		2.6	145	1.3	18.3	147	91.0
L828498		2.5	109	1.2	20.9	125	113.5
L828499		2.4	125	1.3	19.3	132	106.5
L828500		2.6	123	1.9	20.2	109	164.5
.999800		2.8	133	2.1	22.2	129	176.0
.999801		3.0	134	2.1	23.1	129	166.5
.999802		2.6	115	1.8	21.5	130	146.0
.999803		2.4	106	1.6	16.5	120	133.0



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
.999804		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999805		0.58	<0.01	0.10	9.91	5.2	810	3.05	0.34	1.11	0.02	74.3	19.2	90	8.87	29.1
.999806		0.63	<0.01	0.08	10.05	4.9	840	2.82	0.31	1.57	0.03	84.3	19.5	92	7.96	29.9
.999807		0.61	<0.01	0.07	10.80	4.7	920	3.04	0.33	1.49	0.04	90.0	19.1	95	9.17	29.5
.999808		0.63	<0.01	0.10	10.75	3.9	930	3.24	0.32	1.12	0.03	98.8	19.0	97	9.88	29.0
.999809		0.69	<0.01	0.08	10.65	4.1	910	3.08	0.32	1.23	0.04	118.0	18.0	94	9.77	29.2
.999810		0.69	<0.01	0.10	10.20	4.6	880	2.80	0.32	0.91	0.02	114.0	19.2	91	9.31	27.9
.999811		0.41	<0.01	0.09	10.30	5.8	880	3.19	0.34	1.01	0.02	70.0	20.0	96	9.74	29.8
.999812		0.55	<0.01	0.11	10.15	5.9	880	3.06	0.33	1.12	0.04	88.8	19.1	95	9.89	31.3
.999813		0.49	<0.01	0.09	10.20	5.1	860	3.15	0.33	1.08	0.03	97.3	19.6	93	10.40	30.5
.999813		0.62	<0.01	0.09	10.40	4.8	1060	3.03	0.32	0.92	0.02	111.5	19.3	94	10.50	30.1

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999804		5.63	26.7	0.15	3.9	0.01	0.096	3.06	33.3	73.1	0.85	682	0.34	0.38	28.7	46.5
.999805		5.69	27.3	0.14	3.7	0.01	0.097	3.06	38.2	70.4	0.87	739	0.34	0.40	29.0	46.6
.999806		5.65	27.8	0.16	4.0	0.01	0.097	3.25	41.0	74.2	0.94	651	0.32	0.41	31.1	46.7
.999807		5.38	28.0	0.17	4.1	0.01	0.104	3.26	45.2	74.9	0.92	597	0.43	0.42	32.8	46.9
.999808		5.28	27.2	0.19	4.1	0.01	0.097	3.26	56.4	73.5	0.94	599	0.41	0.41	30.5	45.3
.999809		5.27	25.8	0.21	4.2	0.01	0.089	3.13	55.0	71.9	0.94	565	0.34	0.39	29.7	45.7
.999810		5.50	27.0	0.14	3.9	0.01	0.094	3.21	30.3	74.5	0.92	574	0.37	0.38	30.7	48.0
.999811		5.38	27.4	0.18	4.1	0.01	0.100	3.19	40.2	74.7	1.04	564	0.48	0.39	31.9	47.1
.999812		5.40	26.6	0.18	4.1	<0.01	0.095	3.17	45.5	77.8	1.12	570	0.41	0.37	33.1	48.0
.999813		5.42	26.9	0.19	4.3	<0.01	0.099	3.24	51.6	75.5	1.17	528	0.36	0.39	32.1	46.7

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
.999804	730	22.5	92.0	<0.002	0.02	0.27	13.6	2	3.4	120.5	1.78	0.14	12.5	0.567	0.64	
.999805	730	24.7	96.1	<0.002	0.02	0.27	13.9	2	3.3	124.0	1.73	0.13	13.3	0.573	0.60	
.999806	820	25.2	104.0	0.002	0.02	0.29	14.4	2	3.4	128.5	1.91	0.13	14.1	0.620	0.64	
.999807	780	28.3	119.5	<0.002	0.03	0.34	13.5	2	3.6	122.5	1.90	0.13	14.9	0.609	0.65	
.999808	760	26.2	126.5	0.002	0.03	0.30	14.1	2	3.4	121.0	1.88	0.15	17.0	0.606	0.65	
.999809	760	23.2	123.5	<0.002	0.06	0.30	13.4	2	3.3	98.6	1.96	0.12	16.7	0.608	0.64	
.999810	770	23.2	96.7	<0.002	0.06	0.29	13.6	2	3.4	110.5	1.93	0.13	11.8	0.605	0.65	
.999811	860	26.8	100.5	<0.002	0.12	0.30	13.6	2	3.5	112.5	1.94	0.16	13.5	0.624	0.64	
.999812	830	29.8	112.0	<0.002	0.14	0.31	13.8	2	3.5	109.0	1.93	0.14	14.7	0.630	0.68	
.999813	820	23.8	119.0	<0.002	0.14	0.31	13.6	2	3.5	103.5	1.98	0.14	16.0	0.627	0.66	

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
.999804		2.4	105	1.7	15.5	112	135.5
.999805		2.4	106	1.6	17.0	117	134.0
.999806		2.6	111	1.7	17.8	124	145.0
.999807		2.5	108	1.7	18.9	112	152.0
.999808		2.5	107	1.7	19.8	114	143.5
.999809		2.5	101	1.7	19.1	118	142.5
.999810		2.4	108	1.7	14.0	119	134.5
.999811		2.6	108	1.7	17.9	121	147.5
.999812		2.7	105	1.7	19.1	127	155.0
.999813		2.7	107	1.8	19.2	116	153.0

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**CERTIFICATE OF ANALYSIS WH12104027**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K976443		1.02	<0.01	0.06	8.91	16.7	510	2.36	0.27	0.97	0.13	83.8	19.8	88	7.21	35.1
K976444		0.64	0.01	0.04	9.24	16.3	550	2.50	0.27	0.84	0.11	89.8	19.7	92	7.47	37.2
K976445		0.96	0.01	0.06	9.11	16.1	570	2.69	0.29	0.85	0.12	79.7	20.6	92	8.36	32.8
K976446		0.80	<0.01	0.06	9.34	16.3	550	2.79	0.27	0.74	0.12	89.0	20.8	92	8.91	35.8
K976447		0.83	<0.01	0.13	8.21	14.5	680	2.31	0.25	0.28	0.26	80.9	22.3	88	10.75	33.2
K976448		0.66	<0.01	0.05	8.51	14.5	650	2.40	0.26	0.27	0.11	75.3	18.3	90	25.8	33.5
K976449		0.82	<0.01	0.05	8.27	13.9	620	2.11	0.24	0.36	0.17	72.7	18.5	87	29.9	37.7
K976450		0.66	<0.01	0.07	9.14	17.0	720	2.63	0.26	0.36	0.14	82.4	19.7	95	43.2	40.5
K976451		0.70	0.02	0.08	9.07	19.5	710	2.89	0.28	0.32	0.14	82.0	20.6	96	46.6	39.7
K976452		0.60	0.02	0.08	8.73	12.7	600	2.19	0.25	0.63	0.11	89.1	19.2	91	30.3	33.6
K976453		0.51	<0.01	0.05	7.49	12.5	540	1.79	0.23	0.72	0.11	71.7	15.3	74	24.8	28.1
K976454		0.67	<0.01	0.04	5.47	10.3	310	1.36	0.14	3.42	0.06	57.6	11.2	58	19.75	16.9
K976455		0.63	<0.01	0.05	5.76	8.4	320	1.48	0.15	3.92	0.06	60.8	11.7	60	20.5	16.6
K976456		0.71	0.01	0.05	8.23	10.4	490	2.44	0.25	1.45	0.09	82.9	16.3	85	60.2	26.2
K976457		0.58	<0.01	0.08	9.27	11.6	590	2.92	0.31	0.82	0.12	87.8	21.6	98	63.0	31.5
K976458		0.78	<0.01	0.07	7.95	8.4	440	2.24	0.23	1.07	0.15	79.4	18.1	84	35.4	27.5
K976459		0.62	0.01	0.06	7.94	7.6	440	2.50	0.24	0.97	0.15	82.2	18.4	86	37.6	26.7
K976460		0.63	<0.01	0.07	8.41	7.8	450	2.64	0.27	0.85	0.11	91.3	18.3	89	37.7	30.4
K976461		0.91	<0.01	0.05	8.59	8.2	440	2.36	0.25	1.19	0.08	86.7	18.4	89	40.1	27.1
K976462		1.14	<0.01	0.05	7.73	6.6	450	2.20	0.27	0.79	0.14	81.1	17.8	87	29.6	33.8
K976463		0.93	<0.01	0.04	8.15	7.3	460	2.25	0.27	0.81	0.11	79.7	17.9	87	30.9	34.2
K976464		0.99	<0.01	0.06	8.31	6.6	470	2.28	0.26	0.97	0.10	81.4	17.2	89	30.4	34.8
K976465		0.86	<0.01	0.06	8.39	6.9	490	2.38	0.29	0.68	0.12	86.8	18.1	89	33.6	33.8
K976466		0.75	<0.01	0.05	8.77	7.5	500	2.63	0.29	0.55	0.10	86.0	18.0	96	36.5	36.2
K976467		1.10	<0.01	0.09	8.32	6.8	460	2.52	0.28	0.81	0.15	88.9	18.3	87	35.2	34.9
K976468		1.03	0.01	0.05	9.04	7.5	530	2.86	0.33	0.49	0.12	90.7	21.5	99	40.7	41.5
K976469		1.13	<0.01	0.06	9.28	7.3	540	2.83	0.32	0.48	0.09	90.2	21.3	99	38.8	38.5
K976470		0.88	0.02	0.06	8.69	6.4	480	2.39	0.28	0.61	0.09	80.7	20.7	93	33.4	43.5
K976471		1.22	<0.01	0.05	8.03	5.2	440	2.25	0.25	0.77	0.15	79.3	18.9	85	32.8	36.4
K976472		0.38	<0.01	0.06	5.59	21.6	590	1.96	0.18	0.23	0.33	68.9	25.2	67	4.55	39.4
K976473		0.76	0.01	0.10	6.67	16.3	530	1.93	0.22	0.26	0.30	74.6	18.8	77	5.64	45.4
K976474		0.79	0.01	0.08	9.34	15.2	590	3.00	0.31	0.30	0.25	86.3	24.0	97	9.64	41.6
K976475		0.62	<0.01	0.06	9.48	14.2	610	3.06	0.33	0.24	0.07	75.2	44.1	98	10.70	38.7
K976476		0.84	<0.01	0.06	9.35	12.3	530	2.91	0.30	0.23	0.07	75.2	28.5	96	10.45	38.2
K976477		0.76	<0.01	0.06	9.48	13.8	560	2.94	0.31	0.28	0.10	89.4	20.0	99	10.90	38.3
K976478		0.71	<0.01	0.07	9.76	14.6	580	2.93	0.31	0.25	0.11	91.1	22.5	103	10.95	38.8
K976479		0.76	<0.01	0.05	9.53	15.1	540	3.07	0.31	0.40	0.13	86.3	23.0	101	11.55	39.3
K976480		0.58	<0.01	0.09	9.76	14.0	520	3.12	0.30	0.63	0.19	94.3	23.2	101	11.15	40.9
K976481		0.88	<0.01	0.07	9.04	14.7	540	2.81	0.27	0.41	0.11	87.8	21.3	94	10.95	36.2
K976482		0.60	<0.01	0.06	8.91	14.3	540	2.54	0.28	0.43	0.09	84.2	19.9	94	10.35	33.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K976443		4.65	22.7	0.16	3.0	0.03	0.074	2.29	45.2	70.7	1.24	648	1.61	0.45	12.7	61.6
K976444		4.65	23.1	0.16	2.9	<0.1	0.078	2.39	46.2	73.1	1.25	551	1.45	0.48	13.1	60.0
K976445		4.74	24.2	0.15	2.9	<0.1	0.078	2.41	42.5	76.7	1.26	593	1.35	0.45	13.1	62.8
K976446		4.92	24.6	0.16	2.9	<1	0.086	2.47	46.5	75.7	1.26	534	1.17	0.45	13.7	64.5
K976447		4.90	21.7	0.14	2.8	<0.1	0.076	2.09	42.7	74.1	0.94	402	1.39	0.38	12.7	55.7
K976448		4.89	22.2	0.13	2.9	0.02	0.079	2.24	38.6	82.2	1.06	406	1.11	0.35	12.7	59.2
K976449		5.01	20.9	0.16	2.7	<1	0.079	2.15	39.8	84.7	1.09	405	1.29	0.31	11.9	60.7
K976450		4.93	24.2	0.12	3.3	<1	0.084	2.61	43.8	74.8	1.21	597	1.73	0.34	13.5	67.9
K976451		4.76	24.6	0.13	3.1	1	0.089	2.68	42.6	73.1	1.15	387	1.89	0.33	13.6	69.4
K976452		4.31	23.4	0.19	2.7	<1	0.082	2.39	46.4	81.3	1.14	447	0.91	0.34	12.5	59.7
K976453		4.08	18.60	0.13	2.4	<1	0.067	1.96	37.7	74.6	1.07	487	0.80	0.30	10.1	47.1
K976454		3.99	12.95	0.12	2.0	<1	0.042	1.42	28.5	48.0	1.59	1920	0.82	0.26	8.0	32.6
K976455		4.30	13.50	0.13	2.7	<1	0.045	1.50	31.6	47.6	1.75	2180	0.66	0.29	8.6	33.4
K976456		4.52	20.8	0.16	3.0	0.02	0.073	2.09	44.1	77.7	1.35	659	0.87	0.28	12.0	54.6
K976457		4.58	25.5	0.17	2.9	0.03	0.085	2.49	44.4	84.6	1.22	399	0.91	0.36	12.9	60.4
K976458		4.40	21.7	0.16	2.7	0.02	0.076	2.13	39.5	73.7	1.28	499	0.77	0.30	11.0	49.1
K976459		4.32	21.3	0.13	2.7	0.02	0.069	2.20	41.6	66.4	1.21	439	0.76	0.31	11.5	50.5
K976460		3.85	24.0	0.16	2.7	0.02	0.084	2.34	44.7	77.6	1.13	364	0.57	0.33	12.3	50.3
K976461		4.11	23.4	0.16	3.4	0.02	0.076	2.32	44.5	80.9	1.28	503	0.66	0.33	12.5	49.9
K976462		4.28	22.0	0.16	2.9	0.01	0.085	2.24	40.5	77.2	1.24	585	0.56	0.29	11.9	50.9
K976463		4.34	22.1	0.12	2.7	0.01	0.078	2.23	41.3	75.7	1.23	608	0.59	0.29	11.2	49.6
K976464		4.48	21.9	0.16	3.3	0.01	0.065	2.28	41.0	75.0	1.30	651	0.56	0.30	11.3	50.2
K976465		4.39	23.4	0.15	2.8	0.01	0.080	2.30	42.8	77.5	1.22	579	0.55	0.31	11.9	49.8
K976466		4.12	24.5	0.17	2.7	0.01	0.089	2.49	40.3	84.5	1.15	563	0.69	0.36	12.4	51.7
K976467		4.30	23.8	0.17	2.9	0.01	0.087	2.23	43.4	86.7	1.23	675	0.69	0.34	12.3	51.9
K976468		4.66	27.1	0.17	2.8	0.01	0.104	2.52	46.4	87.0	1.25	514	0.43	0.37	13.2	59.9
K976469		5.07	25.6	0.16	2.7	0.01	0.102	2.52	43.8	84.2	1.32	611	0.49	0.37	12.6	60.2
K976470		5.00	23.2	0.15	2.6	0.01	0.091	2.24	39.3	79.6	1.48	572	0.51	0.49	11.5	60.3
K976471		4.67	22.0	0.14	2.7	0.01	0.090	2.13	39.3	80.4	1.32	612	0.49	0.30	11.1	51.5
K976472		5.02	16.70	0.15	2.3	<0.1	0.063	1.41	33.7	63.7	0.97	1100	1.25	0.42	9.6	70.1
K976473		4.67	18.90	0.13	2.5	1.13	0.064	1.72	35.3	65.3	1.01	575	1.07	0.42	10.6	55.1
K976474		5.16	26.6	0.17	2.7	0.03	0.087	2.48	43.2	81.7	1.13	1700	0.81	0.40	12.7	131.5
K976475		5.07	27.4	0.16	2.6	0.02	0.085	2.62	35.7	80.3	1.11	3720	0.69	0.40	12.3	79.9
K976476		4.96	27.3	0.16	2.7	0.02	0.083	2.53	37.6	82.8	1.13	1520	0.65	0.39	12.2	65.0
K976477		5.02	27.4	0.15	2.7	0.03	0.089	2.54	41.8	88.3	1.23	409	0.72	0.37	12.8	64.0
K976478		4.99	27.9	0.16	2.8	0.03	0.083	2.67	46.0	83.3	1.24	479	0.85	0.39	13.7	66.9
K976479		4.92	29.1	0.15	2.8	0.02	0.092	2.59	43.2	92.5	1.32	478	0.87	0.38	13.8	67.5
K976480		5.11	28.2	0.17	2.8	0.03	0.095	2.65	46.3	105.0	1.36	599	1.56	0.36	13.2	66.1
K976481		4.85	25.8	0.14	2.7	0.03	0.078	2.52	45.1	84.7	1.25	393	1.08	0.35	12.5	59.3
K976482		4.84	24.4	0.16	2.5	0.02	0.084	2.46	39.6	79.7	1.28	506	0.80	0.34	12.1	56.2

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K976443		880	31.8	153.5	<0.002	0.86	1.42	18.5	2	2.8	95.9	0.94	<0.05	13.4	0.437	0.95
K976444		840	26.0	154.0	<0.002	0.72	1.26	18.6	1	2.8	97.0	0.98	<0.05	13.8	0.451	0.96
K976445		880	25.3	151.0	<0.002	1.07	1.08	19.4	1	3.0	99.6	0.96	<0.05	12.9	0.440	1.06
K976446		840	24.1	167.5	<0.002	1.16	1.17	20.0	<1	3.0	99.6	0.98	<0.05	13.6	0.451	1.00
K976447		790	19.8	153.0	<0.002	0.04	0.71	18.2	2	2.6	82.2	0.88	<0.05	12.3	0.423	0.96
K976448		820	19.2	150.5	<0.002	0.19	0.69	18.4	2	2.7	75.9	0.93	0.08	12.0	0.440	0.99
K976449		800	19.1	153.0	<0.002	0.74	0.73	17.5	1	2.5	77.6	0.82	<0.05	11.7	0.424	1.17
K976450		780	21.8	177.0	<0.002	1.29	0.80	19.8	1	2.8	82.9	0.96	<0.05	13.3	0.477	1.74
K976451		810	23.9	182.0	<0.002	1.67	0.87	20.2	2	2.9	83.3	0.94	<0.05	13.0	0.474	1.99
K976452		790	19.2	165.5	<0.002	1.02	0.70	18.6	1	2.8	81.2	0.88	<0.05	13.0	0.419	1.39
K976453		760	16.5	135.5	<0.002	0.96	0.54	15.5	1	2.2	69.8	0.73	<0.05	11.6	0.359	1.18
K976454		550	12.5	97.1	<0.002	0.71	0.50	10.4	1	1.7	112.0	0.58	<0.05	8.8	0.285	0.79
K976455		570	13.6	101.0	<0.002	0.85	0.55	10.6	1	1.8	130.5	0.62	<0.05	9.4	0.300	0.75
K976456		720	23.9	159.0	<0.002	1.07	0.73	16.8	1	2.5	126.5	0.90	<0.05	13.0	0.418	1.28
K976457		780	28.7	168.0	<0.002	1.36	0.97	18.6	1	3.2	105.0	0.93	0.06	13.3	0.458	1.61
K976458		810	20.7	146.5	<0.002	0.86	0.75	16.4	1	2.7	85.8	0.80	<0.05	11.6	0.405	1.21
K976459		840	25.4	146.5	<0.002	1.03	0.82	16.3	2	2.7	86.2	0.84	<0.05	11.9	0.410	1.27
K976460		830	18.8	169.5	<0.002	0.74	0.73	17.6	1	2.9	88.4	0.85	<0.05	12.6	0.420	1.25
K976461		820	16.6	155.5	<0.002	0.67	0.68	17.8	1	2.9	116.0	0.84	<0.05	12.3	0.430	1.21
K976462		750	22.5	146.5	<0.002	0.28	0.51	15.8	2	2.8	90.9	0.91	<0.05	11.9	0.422	1.05
K976463		760	18.5	149.5	<0.002	0.28	0.47	17.2	1	2.8	92.5	0.80	<0.05	12.1	0.410	1.01
K976464		790	21.8	145.5	<0.002	0.28	0.47	16.7	2	2.7	99.3	0.81	<0.05	11.8	0.419	1.04
K976465		810	28.3	155.0	<0.002	0.22	0.46	17.2	2	2.8	91.3	0.89	<0.05	12.6	0.424	1.00
K976466		840	17.2	152.5	<0.002	0.16	0.47	17.8	1	3.0	91.9	0.89	<0.05	11.9	0.439	1.05
K976467		820	15.3	159.5	<0.002	0.17	0.48	18.5	3	3.0	98.1	0.83	<0.05	12.4	0.418	0.88
K976468		790	16.6	166.5	<0.002	0.10	0.41	19.1	1	3.3	99.9	0.89	0.06	12.9	0.447	1.08
K976469		880	18.9	162.0	<0.002	0.14	0.44	19.1	2	3.2	99.3	0.90	<0.05	12.5	0.454	1.07
K976470		790	17.8	141.0	<0.002	0.16	0.41	18.0	1	2.9	88.3	0.83	<0.05	11.7	0.463	0.99
K976471		750	21.3	147.5	<0.002	0.14	0.42	17.2	1	2.7	98.2	0.84	<0.05	11.4	0.405	0.89
K976472		780	16.4	92.8	<0.002	0.03	0.78	14.4	2	1.8	63.5	0.68	<0.05	8.7	0.364	0.56
K976473		720	17.8	110.0	<0.002	0.02	0.77	16.2	1	2.3	73.1	0.74	<0.05	10.0	0.415	0.72
K976474		750	28.5	156.5	<0.002	0.02	0.95	19.7	2	3.2	94.0	0.89	<0.05	12.7	0.447	1.10
K976475		680	25.6	156.0	<0.002	0.16	0.90	19.6	2	3.2	93.9	0.88	<0.05	11.2	0.438	1.14
K976476		670	22.8	151.5	<0.002	0.29	0.84	19.9	1	3.2	91.5	0.91	<0.05	11.6	0.430	1.03
K976477		680	23.2	161.5	<0.002	1.02	0.92	20.4	1	3.2	95.0	0.89	<0.05	12.7	0.444	1.04
K976478		710	23.4	172.5	<0.002	1.19	0.88	20.7	1	3.3	97.1	0.94	<0.05	13.2	0.470	1.18
K976479		750	25.9	166.5	<0.002	1.14	1.01	20.8	1	3.5	107.5	0.93	<0.05	12.0	0.451	1.14
K976480		810	24.3	172.5	0.002	1.41	0.93	20.5	3	3.4	109.5	0.92	<0.05	12.8	0.454	1.28
K976481		670	24.2	165.5	<0.002	1.43	0.86	19.1	2	3.2	107.5	0.87	<0.05	12.7	0.442	1.06
K976482		690	23.0	152.0	<0.002	1.19	0.78	18.0	2	3.0	103.0	0.83	<0.05	12.2	0.435	1.01



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**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K976443		3.4	146	1.5	20.9	155	93.0
K976444		3.5	151	1.7	19.7	139	90.2
K976445		3.2	152	1.6	19.9	139	90.9
K976446		3.3	153	1.6	20.7	138	93.7
K976447		3.2	153	1.5	19.5	143	97.0
K976448		3.0	155	1.5	18.9	131	94.4
K976449		3.0	160	1.4	18.3	155	87.1
K976450		3.5	182	1.6	20.3	154	105.5
K976451		3.5	185	1.6	20.6	146	103.0
K976452		2.9	152	1.4	18.5	133	92.5
K976453		2.6	128	1.3	16.1	125	76.3
K976454		2.0	88	1.0	16.6	81	62.6
K976455		2.1	91	1.1	17.2	78	88.5
K976456		3.0	133	1.6	23.5	108	91.4
K976457		3.0	154	1.5	20.7	132	98.2
K976458		2.6	124	1.3	19.8	136	94.8
K976459		2.8	126	1.3	20.3	127	91.4
K976460		2.7	133	1.3	21.2	126	91.7
K976461		2.8	137	1.3	21.4	106	105.0
K976462		2.8	134	1.4	18.4	134	92.1
K976463		2.7	136	1.3	18.8	127	107.5
K976464		2.7	140	1.2	19.1	130	92.1
K976465		2.9	139	1.3	21.6	140	93.6
K976466		2.8	149	1.3	19.8	129	91.9
K976467		2.8	138	1.2	22.1	148	100.5
K976468		2.9	155	1.4	20.1	136	96.2
K976469		2.9	158	1.3	20.6	127	93.2
K976470		2.7	160	1.3	19.1	132	88.0
K976471		2.7	132	1.2	19.8	148	89.6
K976472		2.3	123	0.9	22.5	192	90.3
K976473		2.4	136	1.1	21.5	141	86.6
K976474		2.9	159	1.4	22.3	170	94.5
K976475		2.7	166	1.3	16.9	140	89.1
K976476		2.7	160	1.4	17.4	139	90.1
K976477		2.8	162	1.4	20.5	134	94.0
K976478		2.9	168	1.3	20.0	131	100.0
K976479		2.8	164	1.4	20.0	152	97.0
K976480		2.9	170	1.4	20.6	149	93.1
K976481		2.9	156	1.3	20.0	145	93.0
K976482		2.7	152	1.3	18.8	133	88.6



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**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K976483		0.80	<0.01	0.06	9.19	15.3	530	2.92	0.28	0.36	0.11	79.4	21.4	95	11.50	36.4
K976484		0.83	<0.01	0.06	9.00	14.4	550	2.88	0.30	0.39	0.12	84.1	21.1	92	11.35	36.8
K976485		0.81	0.01	0.11	7.60	38.8	990	2.21	0.24	0.25	0.26	85.7	20.6	88	20.8	41.2
K976486		0.72	<0.01	0.07	9.35	25.2	700	2.71	0.30	0.34	0.16	89.0	23.5	100	21.1	36.3
K976487		0.90	0.01	0.07	8.75	48.9	650	2.46	0.26	0.96	0.17	86.0	22.1	91	19.70	34.5
K976488		0.81	<0.01	0.06	8.83	67.2	660	2.46	0.27	0.70	0.14	79.2	20.2	94	17.15	32.7
K976489		0.61	<0.01	0.08	8.74	113.0	630	2.46	0.28	0.89	0.21	83.9	19.9	90	17.30	35.8
K976490		0.79	<0.01	0.07	8.54	135.5	610	2.56	0.26	0.59	0.15	87.5	19.5	93	18.00	37.2
K976491		0.71	<0.01	0.06	8.53	162.5	530	2.27	0.27	0.97	0.14	77.3	17.4	91	16.70	33.2
K976492		0.48	<0.01	0.26	8.25	871	940	2.12	0.29	0.46	0.54	96.9	16.0	104	41.1	44.1
K976493		1.16	<0.01	0.21	8.68	681	420	2.11	0.28	0.44	0.15	102.0	15.7	115	27.0	44.3
K976494		0.67	<0.01	0.22	8.32	354	1670	2.06	0.27	0.35	0.12	102.5	14.2	104	21.2	36.0
K976495		0.61	<0.01	0.27	8.08	344	1400	2.18	0.27	0.39	0.13	102.0	14.4	101	19.40	37.3
K976496		0.70	<0.01	0.21	8.10	195.0	1450	2.14	0.27	0.42	0.13	104.0	14.0	103	18.85	35.3
K976497		0.85	<0.01	0.23	8.51	182.5	1370	2.09	0.27	0.41	0.13	102.0	15.4	109	17.75	38.0
K976498		0.76	<0.01	0.22	8.19	211	1660	2.19	0.26	0.36	0.17	100.5	14.5	104	25.3	35.3
K976499		0.80	<0.01	0.18	8.19	199.5	1820	2.11	0.27	0.35	0.12	100.5	14.2	103	19.05	36.0
K976500		0.76	0.01	0.19	8.19	213	170	2.21	0.31	0.37	0.16	99.9	14.0	104	20.5	39.2
I383801		0.74	<0.01	0.19	8.27	200	530	2.24	0.30	0.42	0.13	98.6	13.7	100	25.0	38.8
I383802		1.05	<0.01	0.21	8.18	1220	320	2.28	0.29	0.98	0.24	95.6	15.6	88	73.4	38.4
I383803		0.87	<0.01	0.23	8.09	893	570	2.10	0.24	1.19	0.56	87.8	17.3	86	34.9	39.1
I383804		0.86	<0.01	0.30	2.73	635	510	0.69	0.07	17.15	0.58	26.6	5.2	31	13.75	13.3
I383805		1.69	<0.01	0.17	1.00	277	240	0.33	0.03	20.2	0.33	10.60	2.4	12	8.07	5.2
I383806		0.40	0.01	0.16	2.12	117.0	6870	0.66	0.08	0.14	0.18	27.0	6.2	42	2.14	21.2
I383807		0.83	<0.01	0.14	0.37	31.8	1690	0.18	0.02	0.06	0.08	8.92	1.0	64	0.96	6.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K976483		4.79	26.7	0.15	2.8	0.03	0.083	2.64	36.9	77.0	1.24	433	0.90	0.41	12.9	59.8
K976484		4.79	25.9	0.18	2.7	0.03	0.080	2.55	41.0	79.2	1.22	455	0.92	0.39	12.5	59.0
K976485		4.76	21.7	0.18	2.7	0.25	0.063	2.06	43.0	70.0	0.79	501	1.20	0.40	11.7	55.9
K976486		5.34	26.2	0.16	2.8	0.04	0.094	2.55	44.2	60.8	0.85	550	1.31	0.33	12.2	67.6
K976487		4.91	24.3	0.14	2.7	0.1	0.078	2.38	43.2	54.4	1.07	905	1.23	0.30	11.4	66.7
K976488		4.64	24.5	0.15	2.6	0.04	0.082	2.62	42.3	62.3	1.12	536	1.17	0.31	11.5	59.2
K976489		4.97	23.8	0.16	2.6	0.04	0.085	2.53	42.4	52.8	1.18	747	1.17	0.29	11.2	59.4
K976490		4.59	24.7	0.16	2.7	0.03	0.073	2.34	42.9	65.7	1.09	445	1.67	0.26	12.2	59.0
K976491		4.57	21.8	0.15	2.9	0.02	0.080	2.10	40.3	56.2	1.15	614	0.99	0.28	10.7	49.2
K976492		2.91	24.3	0.16	2.7	2.57	0.076	2.51	47.7	45.3	0.51	164	2.45	0.15	26.5	43.7
K976493		3.32	24.0	0.17	3.4	1.25	0.083	2.92	49.4	48.8	0.43	110	1.65	0.14	32.2	49.9
K976494		3.87	21.9	0.18	3.2	0.42	0.079	2.66	50.1	62.6	0.62	307	1.44	0.18	30.6	42.1
K976495		4.39	22.3	0.20	3.2	0.54	0.083	2.63	51.4	65.7	0.69	343	1.47	0.18	31.0	43.4
K976496		3.90	22.5	0.19	3.3	0.32	0.083	2.69	52.7	72.4	0.68	420	1.69	0.17	29.7	40.7
K976497		4.49	23.0	0.20	3.2	0.30	0.085	2.84	50.9	67.3	0.75	437	2.02	0.17	31.5	44.1
K976498		3.69	21.7	0.19	3.2	0.45	0.083	2.67	50.1	61.8	0.69	364	1.52	0.18	29.4	41.1
K976499		3.48	22.3	0.18	3.1	0.29	0.081	2.65	50.6	61.7	0.68	349	1.39	0.18	30.3	40.6
K976500		5.72	22.8	0.20	3.0	0.78	0.078	2.42	47.0	62.1	0.63	300	1.64	0.19	28.6	41.3
I383801		4.95	22.9	0.19	2.8	0.40	0.073	2.55	49.7	56.9	0.69	375	1.63	0.16	29.4	39.5
I383802		4.90	22.1	0.15	2.8	1.20	0.075	2.51	46.4	55.3	0.80	499	3.63	0.15	22.5	47.3
I383803		4.76	21.3	0.19	3.0	1.92	0.079	2.54	43.7	58.1	0.92	520	3.66	0.17	22.5	53.6
I383804		1.78	6.25	0.08	1.1	2.92	0.031	0.84	13.4	19.1	9.48	518	1.86	0.05	6.5	15.6
I383805		0.75	2.31	0.07	0.4	2.39	0.012	0.30	5.4	7.4	11.30	247	0.68	0.02	2.1	6.7
I383806		1.78	5.40	0.08	1.0	8.13	0.024	0.52	20.0	23.8	0.33	231	1.03	0.15	4.1	17.8
I383807		0.62	1.22	<0.05	0.2	13.9	0.005	0.09	17.5	7.5	0.04	83	4.07	<0.01	0.7	4.7

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
LOR		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	
K976483		720	23.2	154.0	<0.002	1.49	0.87	19.0	1	3.1	108.5	0.94	<0.05	10.4	0.448	1.09
K976484		670	23.5	162.0	<0.002	1.52	0.81	19.2	2	3.1	107.5	0.87	<0.05	12.2	0.431	1.20
K976485		770	20.0	135.5	<0.002	0.04	0.94	16.9	1	2.5	89.7	0.82	<0.05	11.3	0.424	1.07
K976486		940	22.0	167.5	<0.002	0.91	0.80	19.7	1	3.0	108.5	0.87	<0.05	12.9	0.440	1.82
K976487		1170	19.7	156.5	<0.002	1.16	0.65	19.0	1	2.9	110.5	0.79	<0.05	11.7	0.421	1.73
K976488		860	19.2	158.5	<0.002	1.71	0.69	18.2	1	2.8	115.5	0.82	<0.05	11.5	0.430	2.09
K976489		900	20.9	163.5	<0.002	1.94	0.76	17.8	2	2.8	115.0	0.81	<0.05	11.8	0.424	1.85
K976490		840	18.3	150.5	<0.002	1.47	0.83	18.5	2	2.8	112.0	0.88	<0.05	12.4	0.440	1.88
K976491		770	19.3	125.5	<0.002	1.24	0.73	16.6	1	2.6	117.0	0.84	<0.05	11.8	0.422	1.63
K976492		1200	43.4	147.0	0.003	2.10	1.43	14.1	2	3.4	328	1.53	<0.05	12.2	0.463	8.88
K976493		1460	26.6	161.0	0.002	2.82	1.11	14.4	3	2.8	394	1.79	0.09	13.1	0.537	7.70
K976494		1370	22.2	154.0	0.003	1.17	1.15	16.6	3	2.7	431	1.79	0.10	13.1	0.506	2.90
K976495		1350	22.7	158.0	<0.002	1.16	1.37	18.4	3	2.7	332	1.74	0.11	13.1	0.490	3.45
K976496		1320	22.4	157.0	0.002	0.63	1.02	17.5	3	2.8	403	1.75	0.09	13.1	0.492	2.12
K976497		1480	22.7	156.0	0.002	0.59	1.28	17.5	3	2.8	380	1.77	0.10	13.2	0.512	2.09
K976498		1350	22.9	154.0	0.002	0.56	1.05	16.8	3	2.8	489	1.74	0.10	12.9	0.499	1.99
K976499		1340	20.0	156.0	0.002	0.47	0.99	16.9	3	2.7	559	1.70	0.12	12.7	0.492	1.78
K976500		1370	20.0	154.0	0.004	3.50	1.03	16.1	3	2.5	522	1.68	0.12	12.0	0.461	7.35
I383801		1330	20.7	150.5	0.006	1.83	0.89	15.0	2	2.6	309	1.67	0.09	12.1	0.470	3.12
I383802		1200	27.1	159.5	0.005	2.82	1.23	16.0	3	2.5	351	1.37	0.10	12.3	0.444	9.79
I383803		1290	35.4	148.0	0.003	2.48	1.20	17.0	3	2.7	420	1.31	0.08	12.0	0.462	6.73
I383804		390	19.4	43.2	<0.002	0.70	0.98	6.3	2	0.9	245	0.38	<0.05	3.9	0.143	4.31
I383805		160	17.5	16.8	0.002	0.24	0.82	3.4	1	0.3	189.0	0.12	<0.05	1.5	0.052	2.89
I383806		380	6.8	30.1	0.002	0.19	0.44	5.4	1	0.7	120.5	0.27	<0.05	3.7	0.167	0.64
I383807		200	2.5	5.1	0.005	0.05	0.25	0.8	1	0.3	131.0	0.05	<0.05	0.9	0.025	0.83



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**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
K976483		2.5	162	1.2	19.0	129	90.5
K976484		2.8	156	1.4	19.1	139	90.1
K976485		2.8	152	1.2	22.6	144	91.8
K976486		3.1	171	1.3	20.5	324	94.1
K976487		3.0	158	1.3	22.1	184	99.3
K976488		2.9	164	1.4	17.9	136	83.9
K976489		3.1	163	1.3	19.2	175	88.5
K976490		3.3	168	1.4	19.8	137	96.4
K976491		3.0	152	1.2	18.8	149	89.5
K976492		4.4	199	3.8	25.5	179	92.6
K976493		3.7	212	4.2	27.9	144	121.0
K976494		3.2	204	2.5	23.7	137	109.5
K976495		3.2	198	2.3	25.6	125	112.5
K976496		3.2	200	2.2	24.7	117	113.0
K976497		3.2	212	2.1	26.0	140	113.5
K976498		3.3	201	2.2	23.3	137	113.0
K976499		3.1	203	2.1	22.9	123	112.0
K976500		3.2	200	2.2	22.4	131	102.0
I383801		3.1	199	1.9	23.0	133	101.0
I383802		3.9	177	2.9	22.8	163	93.8
I383803		4.1	170	3.1	23.5	204	108.5
I383804		2.4	57	1.9	8.2	145	39.0
I383805		1.7	24	1.1	3.8	103	14.9
I383806		1.8	51	0.6	9.0	52	34.4
I383807		1.7	13	0.3	4.1	7	6.2



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**CERTIFICATE OF ANALYSIS WH12107683**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12107684**

Project: Rackla Gold  
 P.O. No.: Area D - Py/ Ag  
 This report is for 78 Rock samples submitted to our lab in Whitehorse, YT, Canada on 18- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

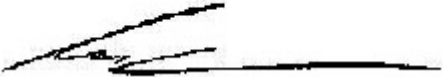
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999913		0.91	0.02	0.24	8.20	42.5	850	2.30	0.29	1.37	0.34	84.7	23.0	93	9.19	53.6
.999914		0.51	0.01	0.15	5.65	983	430	1.49	0.20	0.52	0.72	73.6	14.7	48	4.19	40.0
.999915		0.38	<0.01	0.14	5.47	941	460	1.55	0.22	0.47	0.57	73.1	14.9	49	4.15	41.0
.999916		0.67	<0.01	0.10	7.15	1180	480	2.01	0.26	0.33	0.24	98.7	14.5	55	5.76	27.4
.999917		0.64	<0.01	0.11	8.69	1260	560	2.72	0.33	0.28	0.09	108.5	15.3	66	6.41	22.6
.999918		0.91	<0.01	0.08	9.04	462	520	2.65	0.37	0.30	0.09	113.0	16.3	71	6.34	30.5
.999919		0.71	<0.01	0.09	10.10	115.0	500	3.11	0.48	0.28	0.07	111.5	20.3	81	6.95	37.8
.999920		0.81	<0.01	0.08	9.53	105.0	470	2.75	0.39	0.58	0.06	126.0	17.0	74	6.80	28.4
.999921		0.74	<0.01	0.07	9.14	139.0	430	2.53	0.37	0.54	0.06	120.0	15.8	71	6.59	28.6
.999922		0.98	<0.01	0.07	9.25	51.9	480	2.53	0.38	0.37	0.04	123.0	16.3	73	6.39	29.3
.999923		0.92	0.01	0.09	8.82	48.9	420	2.34	0.35	0.66	0.04	117.0	16.9	68	6.12	24.1
.999924		0.78	<0.01	0.08	7.85	285	380	2.01	0.29	0.41	0.11	108.5	15.3	59	5.23	21.9
.999925		0.78	<0.01	0.08	8.42	224	410	2.23	0.33	0.39	0.13	114.5	15.0	64	5.79	29.9
.999926		1.21	<0.01	0.27	7.70	1610	660	2.11	0.25	0.35	2.72	82.5	18.8	86	13.35	36.9
.999927		0.65	<0.01	0.18	7.22	1930	740	1.86	0.25	0.47	2.26	77.6	19.7	82	11.65	35.2
.999928		0.79	<0.01	0.15	7.13	2470	630	1.96	0.23	0.44	2.83	80.7	18.4	78	10.90	35.4
.999929		0.64	<0.01	0.08	8.92	1510	500	2.72	0.39	0.29	0.34	120.0	17.6	69	6.59	31.0
.999930		0.68	<0.01	0.09	9.57	1385	520	2.98	0.46	0.24	0.25	73.2	19.1	80	6.65	35.4
.999931		1.10	0.01	0.07	8.98	1245	560	2.42	0.38	0.34	0.42	122.0	14.2	70	5.96	49.4
.999932		0.91	<0.01	0.06	9.49	970	630	2.54	0.43	0.37	0.21	117.5	16.7	74	6.01	32.4
.999933		0.81	<0.01	0.12	9.56	267	500	3.09	0.41	0.68	0.71	113.0	26.1	71	6.82	29.0
.999934		1.10	<0.01	0.16	9.64	330	490	3.21	0.40	0.85	0.86	107.0	37.0	74	7.35	44.8
.999935		0.98	<0.01	0.19	9.83	236	590	3.21	0.41	0.43	0.38	104.0	45.4	73	7.68	49.2
.999936		1.43	<0.01	0.17	9.86	164.0	550	3.24	0.44	0.36	0.37	107.0	48.4	78	7.68	43.6
.999937		0.69	<0.01	0.08	8.58	46.0	520	2.88	0.36	0.34	0.06	113.0	29.2	63	6.39	56.1
.999938		0.68	<0.01	0.22	6.97	848	860	2.08	0.22	0.38	0.69	73.9	22.3	83	8.02	34.4
.999939		0.66	<0.01	0.22	7.20	697	800	1.98	0.22	0.34	0.65	72.3	20.4	82	7.83	43.5
.999940		0.90	<0.01	0.16	6.78	811	850	2.02	0.23	0.38	0.52	74.0	19.4	74	5.63	37.8
.999941		0.74	<0.01	0.21	6.55	898	830	2.01	0.22	0.34	0.51	76.4	21.1	72	5.34	40.6
.999942		0.65	<0.01	0.13	9.74	533	620	3.09	0.42	0.21	0.27	83.9	25.5	85	9.00	45.8
.999943		0.81	<0.01	0.14	9.01	541	1170	2.82	0.36	0.24	0.35	100.0	26.8	82	8.21	44.4
.999944		1.01	<0.01	0.13	9.44	622	720	3.18	0.41	0.22	0.38	93.5	38.0	83	9.69	49.2
.999945		1.07	0.02	0.15	9.04	520	730	2.91	0.37	0.23	0.41	104.5	37.7	82	8.95	49.2
.999946		1.25	<0.01	0.08	8.82	219	580	2.97	0.37	0.22	0.14	95.5	37.9	68	9.33	63.5
.999947		0.76	<0.01	0.07	9.55	162.5	640	3.37	0.45	0.23	0.12	76.1	37.6	79	10.25	93.5
.999948		0.99	<0.01	0.07	9.32	86.2	580	3.23	0.43	0.21	0.06	82.3	18.5	78	10.40	40.4
K976401		0.64	<0.01	0.22	6.77	288	820	1.96	0.22	0.35	0.52	69.1	20.2	82	8.55	35.9
K976402		0.72	<0.01	0.20	6.89	416	720	2.06	0.29	0.33	0.33	77.8	18.8	72	8.24	42.2
K976403		0.67	<0.01	0.11	8.18	164.5	710	2.83	0.41	0.24	0.28	102.5	22.0	72	10.30	54.3
K976404		0.90	<0.01	0.10	8.96	109.0	720	3.11	0.40	0.55	0.10	90.3	24.0	79	13.95	17.9



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
.999913		4.84	22.1	0.19	3.1	0.25	0.081	2.38	41.4	76.6	1.23	657	1.51	0.45	14.4	64.9
.999914		4.90	14.75	0.15	2.8	0.41	0.059	1.46	34.0	64.5	0.71	1050	0.73	0.58	9.3	35.9
.999915		4.70	14.70	0.16	2.8	0.26	0.058	1.43	34.2	63.1	0.69	1040	0.81	0.50	9.1	34.4
.999916		4.01	19.40	0.19	3.5	0.15	0.061	2.00	48.0	68.9	0.61	742	0.62	0.52	12.3	30.2
.999917		4.20	24.6	0.21	3.9	0.09	0.068	2.63	49.7	87.1	0.80	516	0.63	0.64	15.4	31.1
.999918		4.59	26.6	0.22	3.9	0.12	0.069	2.81	52.8	88.5	0.98	717	0.65	0.57	16.7	35.3
.999919		4.61	30.6	0.23	3.7	0.06	0.081	3.22	53.8	99.9	1.03	810	0.46	0.47	18.9	40.5
.999920		4.26	27.7	0.24	3.8	0.06	0.076	3.25	62.2	84.0	0.97	730	0.41	0.51	16.8	34.5
.999921		4.30	25.1	0.22	3.7	0.06	0.068	3.08	59.6	82.2	0.97	796	0.37	0.55	15.6	33.0
.999922		4.48	25.8	0.24	3.7	0.06	0.068	3.24	60.8	73.7	0.96	821	0.34	0.60	16.3	34.7
.999923		4.66	25.0	0.24	3.5	0.05	0.070	3.06	56.8	83.9	1.05	905	0.33	0.59	15.3	36.2
.999924		4.51	21.2	0.22	3.6	0.06	0.060	2.47	53.0	69.3	0.89	874	0.45	0.62	13.8	32.2
.999925		4.68	23.3	0.23	3.7	0.10	0.066	2.76	56.7	70.2	0.93	830	0.42	0.59	14.6	33.6
.999926		5.17	20.3	0.20	3.1	1.77	0.080	2.15	41.9	73.9	0.70	461	1.18	0.34	13.8	55.8
.999927		4.81	19.25	0.19	3.0	0.75	0.076	2.03	38.1	71.7	0.76	705	1.05	0.36	12.7	56.8
.999928		4.87	18.65	0.19	3.0	0.56	0.074	1.95	39.0	69.4	0.74	988	0.97	0.36	12.4	54.7
.999929		4.41	25.1	0.22	3.3	0.11	0.073	3.19	60.0	76.0	0.66	1280	0.63	0.40	16.2	37.8
.999930		4.16	28.7	0.19	3.6	0.12	0.084	3.72	32.1	77.6	0.65	913	0.57	0.37	18.8	39.2
.999931		6.35	25.3	0.25	3.4	0.13	0.076	3.11	58.5	83.9	0.75	3190	0.81	0.43	16.8	35.8
.999932		6.09	27.9	0.27	3.5	0.07	0.078	3.39	55.4	93.4	0.82	3100	0.70	0.43	18.5	36.0
.999933		4.43	26.7	0.24	3.1	0.16	0.077	3.36	52.2	79.1	1.00	1760	1.26	0.33	16.6	39.6
.999934		4.34	26.5	0.26	3.0	0.25	0.086	3.60	50.1	68.8	1.00	1700	1.60	0.28	16.3	50.1
.999935		4.34	26.9	0.24	3.2	0.23	0.075	3.57	49.0	65.0	0.94	945	4.24	0.27	16.5	51.9
.999936		4.14	28.0	0.25	3.3	0.20	0.088	3.69	49.0	69.5	0.94	771	3.24	0.28	17.8	48.9
.999937		5.59	24.8	0.29	3.0	0.05	0.059	2.93	51.7	69.2	1.17	2110	0.89	0.41	15.8	40.0
.999938		5.25	18.15	0.23	2.6	0.69	0.063	1.74	34.9	70.4	0.80	966	1.81	0.40	12.4	49.5
.999939		5.24	19.10	0.22	2.7	0.77	0.068	1.79	34.3	70.5	0.99	766	1.56	0.40	12.6	52.1
.999940		4.89	17.75	0.25	2.7	0.25	0.061	1.71	34.8	64.3	0.89	1380	1.72	0.48	11.5	48.8
.999941		4.75	17.45	0.25	2.8	0.14	0.060	1.73	35.8	57.4	0.90	1450	1.36	0.49	12.5	49.7
.999942		4.07	27.3	0.24	3.3	0.26	0.078	3.69	35.9	56.2	0.82	389	1.82	0.24	15.9	32.7
.999943		4.24	24.1	0.26	3.1	0.22	0.077	3.15	46.9	54.4	0.85	673	2.03	0.30	14.6	38.3
.999944		4.46	26.1	0.27	3.4	0.35	0.086	3.58	40.7	55.2	0.84	641	3.17	0.22	15.8	44.8
.999945		4.52	25.4	0.30	3.2	0.23	0.083	3.23	48.2	56.2	0.88	810	2.79	0.27	15.1	49.2
.999946		3.52	25.1	0.27	2.6	0.08	0.070	3.24	44.0	51.2	0.80	731	1.03	0.25	14.2	43.6
.999947		3.80	27.8	0.25	3.0	0.05	0.083	3.76	32.3	53.4	0.89	701	1.22	0.29	17.7	49.4
.999948		4.81	27.3	0.27	2.8	0.04	0.080	3.67	35.4	57.6	1.05	769	0.78	0.31	15.9	47.6
K976401		4.21	17.65	0.22	2.5	1.33	0.066	1.70	33.2	66.3	0.82	1680	1.44	0.37	12.4	55.1
K976402		4.94	18.15	0.24	2.7	1.25	0.062	1.83	36.7	69.0	0.75	2160	1.42	0.39	12.0	47.8
K976403		4.93	22.8	0.29	2.9	0.14	0.075	3.05	48.3	51.3	0.83	4220	1.23	0.32	14.2	57.7
K976404		5.51	24.4	0.26	2.6	0.07	0.074	3.70	42.1	41.5	1.04	3940	1.04	0.26	13.7	48.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
.999913		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
.999913		840	23.8	131.0	0.003	0.42	1.12	18.5	2	2.8	129.0	0.97	0.09	12.9	0.478	0.97
.999914		530	41.0	81.3	<0.002	0.03	1.31	12.1	2	1.8	76.4	0.70	<0.05	13.7	0.301	17.85
.999915		660	39.4	79.9	<0.002	0.03	1.26	11.7	1	1.8	76.3	0.71	<0.05	13.8	0.297	13.90
.999916		470	27.7	118.5	<0.002	0.01	1.25	12.5	2	2.4	83.6	0.97	<0.05	18.4	0.326	4.07
.999917		400	31.6	144.0	<0.002	0.01	1.15	14.6	2	3.1	87.5	1.16	<0.05	20.1	0.388	2.17
.999918		390	40.9	143.5	<0.002	0.14	0.72	14.6	2	3.5	89.7	1.33	<0.05	21.4	0.422	1.71
.999919		400	28.1	151.5	<0.002	0.29	0.50	16.7	2	4.0	111.0	1.51	<0.05	22.1	0.478	1.25
.999920		360	27.3	161.0	<0.002	0.40	0.44	15.4	2	3.5	149.0	1.31	<0.05	22.5	0.435	1.17
.999921		380	24.5	156.0	0.002	0.30	0.44	14.4	2	3.4	149.0	1.24	<0.05	22.3	0.412	1.29
.999922		370	31.2	159.0	<0.002	0.24	0.33	14.5	2	3.5	143.0	1.33	<0.05	22.4	0.427	1.08
.999923		380	43.1	150.5	<0.002	0.25	0.35	14.2	2	3.3	178.0	1.22	<0.05	21.5	0.406	1.03
.999924		370	27.3	126.5	<0.002	0.18	0.56	12.9	2	2.9	112.5	1.12	<0.05	20.6	0.364	2.26
.999925		370	28.4	137.5	<0.002	0.14	0.49	13.7	2	3.1	119.0	1.17	<0.05	22.0	0.386	2.16
.999926		830	80.5	142.0	0.002	0.03	2.43	17.1	3	2.6	98.9	0.93	0.06	12.4	0.433	20.4
.999927		820	39.4	130.0	<0.002	0.04	1.97	16.7	2	2.4	94.8	0.88	0.06	12.1	0.423	27.2
.999928		820	41.3	130.0	0.003	0.03	2.06	16.1	2	2.3	93.0	0.84	0.06	12.5	0.397	37.9
.999929		450	41.3	151.5	0.002	0.01	1.27	16.0	2	3.4	114.0	1.24	<0.05	21.3	0.408	8.90
.999930		390	39.7	146.5	<0.002	0.01	1.14	16.9	2	3.9	107.5	1.48	<0.05	16.3	0.455	6.35
.999931		440	78.5	138.0	0.002	0.02	1.07	15.2	2	3.4	104.0	1.31	<0.05	20.3	0.403	7.12
.999932		420	38.7	136.5	0.002	0.01	0.90	15.9	2	3.8	108.5	1.43	<0.05	20.5	0.439	2.16
.999933		420	81.3	134.5	<0.002	0.87	1.36	15.9	2	3.2	99.6	1.17	0.05	20.0	0.389	2.05
.999934		380	139.0	139.0	<0.002	1.37	2.08	16.7	2	3.1	97.6	1.10	0.05	18.1	0.392	2.71
.999935		370	147.5	145.5	<0.002	1.66	2.61	16.8	2	3.1	98.7	1.13	0.05	17.7	0.389	2.04
.999936		330	104.5	148.5	<0.002	1.54	2.38	17.9	2	3.3	97.0	1.23	<0.05	19.1	0.421	1.77
.999937		470	57.4	118.5	<0.002	0.29	0.98	14.3	2	2.8	99.2	1.09	0.06	19.9	0.355	0.96
.999938		840	24.6	105.5	0.004	0.04	1.02	15.2	3	2.0	89.0	0.77	0.09	10.6	0.373	2.19
.999939		760	28.6	105.0	0.002	0.03	0.98	16.6	2	2.1	85.0	0.79	0.11	10.5	0.414	4.50
.999940		680	24.8	96.6	0.002	0.03	0.80	14.6	2	2.0	74.7	0.75	0.08	11.9	0.364	2.56
.999941		770	37.4	94.5	0.002	0.02	1.01	14.3	2	2.0	75.3	0.78	0.09	11.4	0.368	1.82
.999942		310	100.5	142.5	0.002	0.02	1.84	17.8	3	3.1	88.0	1.07	0.06	15.2	0.403	1.15
.999943		400	171.5	142.5	0.002	0.04	1.68	16.7	2	2.7	85.9	0.98	0.06	15.6	0.394	1.23
.999944		330	112.5	150.5	0.003	0.06	2.27	17.6	2	3.1	89.6	1.08	0.06	15.8	0.392	1.32
.999945		390	94.2	148.5	0.002	0.15	1.99	17.6	2	2.9	85.1	1.00	0.07	16.1	0.389	1.36
.999946		330	33.6	144.5	0.004	0.03	0.74	16.6	2	2.8	84.0	0.96	0.08	15.1	0.365	0.99
.999947		330	31.0	140.5	0.003	0.03	0.85	18.8	2	3.1	90.1	1.19	0.10	13.7	0.432	1.06
.999948		350	25.0	142.5	<0.002	0.04	0.58	18.3	2	3.0	88.4	1.07	0.10	14.1	0.411	0.99
K976401		780	24.1	102.5	0.003	0.03	0.83	14.7	3	2.0	84.7	0.75	0.09	10.0	0.375	1.42
K976402		750	24.3	105.5	0.002	0.03	0.81	14.3	3	2.1	82.4	0.78	0.09	11.7	0.348	1.41
K976403		410	26.2	147.0	<0.002	0.01	1.03	16.6	2	2.6	85.9	0.97	0.09	15.6	0.384	1.18
K976404		360	26.7	162.5	<0.002	0.01	1.18	16.7	1	2.7	86.8	0.94	0.11	14.4	0.395	1.36

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
.999913		3.5	161	1.6	23.4	144	109.0
.999914		2.7	80	1.0	20.2	491	97.6
.999915		2.9	78	1.0	19.7	366	93.8
.999916		3.6	72	1.4	22.0	156	111.5
.999917		4.0	85	1.6	21.8	123	128.5
.999918		4.1	88	1.8	22.6	115	123.0
.999919		4.7	100	2.1	22.8	115	121.5
.999920		4.1	94	1.8	23.7	96	127.5
.999921		4.1	86	1.7	23.1	90	118.0
.999922		4.1	87	1.8	22.3	90	115.0
.999923		3.8	83	1.6	22.8	97	111.5
.999924		3.8	75	1.4	21.7	115	113.0
.999925		4.0	80	1.6	23.0	130	118.0
.999926		3.9	144	1.5	21.7	844	104.0
.999927		3.8	136	1.4	21.4	887	100.0
.999928		3.9	129	1.4	21.6	1200	101.0
.999929		4.3	94	1.8	24.6	237	109.0
.999930		4.3	108	2.0	18.1	174	114.5
.999931		4.2	91	1.8	24.6	264	104.5
.999932		4.3	95	1.9	24.7	168	110.5
.999933		4.1	95	1.4	23.2	362	93.2
.999934		4.1	99	1.4	23.4	375	95.8
.999935		4.0	97	1.4	23.1	222	98.2
.999936		4.2	100	1.6	22.3	201	98.8
.999937		3.4	81	1.3	24.8	97	91.0
.999938		3.4	136	1.0	19.9	233	85.3
.999939		3.3	147	1.0	20.2	249	91.0
.999940		3.4	125	1.0	20.0	162	86.4
.999941		3.3	123	1.0	21.1	139	92.2
.999942		4.4	109	1.4	18.9	238	102.5
.999943		4.0	108	1.3	21.6	210	99.5
.999944		4.9	105	1.4	22.3	266	105.5
.999945		4.5	108	1.3	23.4	226	102.5
.999946		2.6	99	1.4	19.5	97	80.9
.999947		3.1	116	1.6	18.2	93	93.2
.999948		2.9	105	1.6	19.7	87	87.3
K976401		3.2	139	1.0	19.0	160	83.3
K976402		3.2	121	1.1	19.6	141	85.9
K976403		3.2	118	1.5	21.4	115	91.6
K976404		2.4	104	1.5	21.2	116	79.2

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K976405		0.80	<0.01	0.07	9.16	18.3	650	3.25	0.42	0.20	0.04	81.3	23.5	78	16.15	13.2
K976406		1.22	<0.01	0.07	9.08	15.6	660	3.29	0.39	0.58	0.04	96.5	24.2	73	15.65	14.2
K976407		0.87	<0.01	0.07	9.01	25.9	660	3.01	0.39	0.56	0.04	104.0	23.1	73	15.55	14.6
K976408		0.83	<0.01	0.23	7.70	474	810	2.20	0.26	0.37	0.43	84.5	21.2	86	12.45	39.8
K976409		0.92	<0.01	0.37	7.61	289	880	2.26	0.25	0.39	0.44	79.9	14.9	90	11.75	36.1
K976410		0.82	<0.01	0.09	8.56	48.4	720	2.91	0.39	0.18	0.08	96.8	19.5	72	20.9	26.1
K976411		0.72	<0.01	0.07	8.59	28.3	580	3.09	0.40	0.17	0.04	83.5	25.3	67	19.50	19.1
K976412		1.10	<0.01	0.06	8.84	9.3	600	3.15	0.42	0.14	0.02	104.0	22.3	60	21.6	17.2
K976413		0.59	<0.01	0.08	8.88	11.5	820	3.06	0.39	0.16	0.03	108.5	22.5	65	21.4	18.6
K976414		0.99	<0.01	0.07	8.90	9.3	980	3.39	0.37	0.30	0.07	99.5	24.0	65	24.2	18.2
K976415		0.89	<0.01	0.06	8.58	8.0	770	3.20	0.35	0.36	0.04	107.0	22.3	64	23.5	19.5
K976416		0.34	<0.01	0.15	7.31	14.5	750	1.95	0.22	0.31	0.25	76.0	16.9	85	6.74	32.2
K976417		0.49	<0.01	0.09	9.40	15.9	710	2.74	0.27	0.46	0.21	83.4	22.4	97	11.95	35.2
K976418		0.53	<0.01	0.09	9.50	15.8	690	2.88	0.28	0.30	0.15	84.7	31.8	97	13.80	35.8
K976419		0.54	<0.01	0.10	9.40	15.6	580	3.05	0.29	0.27	0.09	73.2	30.2	94	14.95	32.9
K976420		0.70	<0.01	0.11	9.52	15.4	600	2.98	0.30	0.26	0.09	67.9	23.3	97	16.10	33.8
K976421		0.62	<0.01	0.04	8.65	15.3	530	2.13	0.30	0.24	0.08	72.3	17.0	90	14.10	31.7
K976422		0.69	<0.01	0.03	9.23	15.5	550	2.48	0.32	0.30	0.07	77.1	18.8	95	15.05	30.0
K976423		0.75	<0.01	0.05	9.66	15.1	560	2.30	0.32	0.25	0.07	79.4	17.2	98	16.35	31.4
K976424		0.71	<0.01	0.05	9.15	15.1	530	2.35	0.30	0.25	0.07	79.3	18.8	93	15.95	32.4
K976425		0.83	<0.01	0.16	9.49	15.4	560	2.34	0.30	0.27	0.08	80.5	19.2	97	16.85	34.1
K976426		0.65	<0.01	0.08	9.60	15.6	600	2.49	0.34	0.25	0.11	77.4	18.9	96	17.75	33.3
K976427		0.81	<0.01	0.07	9.40	14.7	550	2.68	0.32	0.26	0.12	82.1	20.3	96	17.10	35.8
K976428		0.67	<0.01	0.06	9.62	13.9	580	2.47	0.31	0.28	0.10	82.1	19.9	99	16.45	34.4
K976429		0.63	<0.01	0.10	6.04	24.0	760	1.27	0.21	2.54	0.38	57.3	17.5	76	4.26	55.4
K976430		0.57	<0.01	0.11	7.84	19.1	680	1.71	0.27	1.75	0.28	69.7	19.4	85	6.94	52.3
K976431		0.53	<0.01	0.10	7.88	22.5	630	1.76	0.29	3.24	0.25	72.7	17.8	80	8.66	47.6
K976432		0.78	<0.01	0.10	7.77	30.1	670	1.82	0.26	2.06	0.23	72.5	18.2	82	11.10	48.7
K976433		0.62	<0.01	0.13	7.33	12.1	950	1.51	0.21	0.37	0.22	64.4	15.1	105	6.74	34.7
K976434		0.70	<0.01	0.11	7.77	17.0	750	1.71	0.26	0.99	0.29	69.4	16.9	84	7.02	41.7
K976435		0.61	<0.01	0.14	7.07	27.8	750	1.60	0.24	1.85	0.36	65.5	19.7	76	6.05	50.1
K976436		0.62	<0.01	0.09	8.53	19.9	680	1.87	0.29	1.47	0.21	79.2	19.3	88	8.03	46.2
K976437		0.59	<0.01	0.08	7.80	23.6	640	1.60	0.26	2.83	0.22	66.4	16.8	80	9.12	43.5
K976438		0.65	<0.01	0.12	7.37	27.6	660	1.60	0.25	2.84	0.27	67.5	16.8	81	11.65	46.0
K976439		0.58	<0.01	0.05	7.95	14.3	2490	1.56	0.26	0.65	0.20	66.2	16.1	86	6.66	38.7
K976440		0.60	<0.01	0.09	7.40	14.7	3070	1.65	0.24	0.70	0.28	88.0	16.7	82	6.80	39.6
K976441		0.85	<0.01	0.08	8.49	11.4	760	1.95	0.31	0.51	0.13	80.0	21.0	92	7.34	33.1
K976442		0.55	<0.01	0.07	8.57	11.3	600	1.97	0.31	0.47	0.10	79.1	19.8	90	7.35	29.3

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K976405		5.18	25.1	0.27	2.8	<0.01	0.074	4.00	35.5	40.0	0.99	1620	0.67	0.26	14.7	48.6
K976406		5.16	24.4	0.30	2.8	0.03	0.077	3.75	44.0	39.9	1.03	1910	0.82	0.27	14.8	46.8
K976407		5.23	23.2	0.29	2.9	0.03	0.074	3.68	49.5	39.8	1.02	1790	0.84	0.27	14.3	44.9
K976408		5.17	19.65	0.26	2.8	0.49	0.068	2.10	40.4	69.1	0.79	945	1.51	0.42	14.6	48.4
K976409		3.88	18.70	0.24	2.8	1.08	0.067	1.92	38.5	71.2	0.76	318	1.37	0.39	13.5	46.1
K976410		5.74	23.4	0.28	2.5	0.07	0.077	3.43	42.8	61.6	0.73	1020	0.84	0.14	15.6	47.4
K976411		5.84	23.4	0.27	2.5	0.07	0.073	3.52	35.6	64.5	0.68	1390	0.86	0.08	15.3	56.5
K976412		6.02	23.8	0.30	2.3	0.02	0.072	3.68	46.1	61.9	0.71	733	0.72	0.06	15.6	52.0
K976413		6.08	23.0	0.31	2.6	0.03	0.072	3.75	49.6	67.2	0.84	644	0.70	0.08	15.0	53.7
K976414		5.18	24.1	0.27	2.5	0.03	0.076	3.79	43.6	57.7	0.79	3190	0.65	0.06	15.9	53.5
K976415		4.55	23.3	0.28	2.7	0.04	0.071	3.66	49.3	56.5	0.78	2520	0.55	0.06	15.3	50.7
K976416		4.36	17.95	0.25	2.6	0.09	0.065	1.74	35.9	59.3	0.88	618	1.28	0.47	12.1	40.3
K976417		5.31	23.1	0.26	2.8	0.02	0.080	2.42	38.9	86.6	1.07	424	0.78	0.43	13.5	56.0
K976418		5.15	23.4	0.26	2.8	0.02	0.082	2.48	38.6	98.3	0.99	367	0.79	0.41	13.4	64.7
K976419		5.03	23.5	0.26	2.7	0.03	0.083	2.46	32.2	89.2	1.01	855	0.91	0.38	12.8	65.6
K976420		5.04	24.8	0.25	2.7	0.03	0.086	2.57	28.7	91.4	1.03	1100	0.82	0.39	13.1	66.5
K976421		5.17	22.1	0.14	2.9	0.03	0.080	2.28	39.5	82.9	0.95	335	0.91	0.37	11.5	54.6
K976422		5.26	23.7	0.18	2.9	0.03	0.082	2.45	41.4	85.1	1.00	464	0.92	0.40	11.9	59.5
K976423		5.13	23.8	0.17	2.9	0.02	0.094	2.60	40.4	82.5	1.09	239	0.66	0.42	12.0	61.4
K976424		4.99	23.6	0.16	2.8	0.02	0.086	2.43	40.8	88.5	1.06	273	0.70	0.40	12.3	61.8
K976425		5.01	25.1	0.16	2.9	0.03	0.093	2.61	40.3	90.9	1.11	299	0.94	0.41	12.6	62.0
K976426		5.01	25.8	0.16	3.0	0.03	0.085	2.66	38.9	88.7	1.12	241	0.84	0.41	13.5	61.6
K976427		4.79	25.9	0.19	2.9	0.02	0.100	2.58	40.0	87.2	1.12	289	0.77	0.42	14.0	65.1
K976428		5.01	25.5	0.16	3.0	0.02	0.095	2.59	41.5	91.3	1.18	396	0.73	0.43	13.6	63.7
K976429		4.56	16.00	0.13	2.3	0.09	0.063	1.46	29.8	48.5	1.24	890	1.66	0.64	9.8	49.5
K976430		4.95	20.8	0.16	3.0	0.06	0.077	1.99	36.9	59.1	1.18	652	1.21	0.56	11.7	56.5
K976431		4.60	19.90	0.15	2.9	0.18	0.073	2.12	39.5	59.9	1.32	558	1.10	0.45	11.7	53.2
K976432		4.64	20.9	0.17	3.0	0.18	0.084	2.11	39.2	63.8	1.32	585	1.31	0.45	12.4	55.4
K976433		4.46	19.05	0.13	2.6	0.04	0.071	1.92	35.1	56.4	0.92	490	4.31	0.37	10.3	55.7
K976434		4.72	20.0	0.14	3.1	0.07	0.080	1.99	36.1	62.3	1.11	429	1.38	0.42	12.3	52.0
K976435		5.01	19.10	0.15	2.7	0.15	0.070	1.85	36.2	56.5	1.07	879	1.54	0.46	11.4	61.0
K976436		5.03	22.0	0.15	3.2	0.06	0.075	2.28	41.7	61.7	1.10	525	1.18	0.46	12.6	59.4
K976437		4.53	19.00	0.14	2.8	1.45	0.068	2.11	36.7	54.3	1.32	504	1.13	0.44	11.4	50.6
K976438		4.38	19.05	0.15	2.8	0.18	0.075	2.02	36.0	60.0	1.27	534	1.64	0.41	11.3	49.7
K976439		4.79	19.50	0.13	2.6	0.05	0.070	2.05	34.5	56.5	1.09	593	1.30	0.54	10.4	54.6
K976440		4.36	20.4	0.15	2.8	0.04	0.077	1.96	39.7	58.0	1.00	603	1.40	0.47	11.6	56.0
K976441		4.91	22.1	0.18	2.8	0.02	0.093	2.18	41.3	67.0	1.09	631	1.14	0.45	12.7	62.8
K976442		4.65	21.6	0.16	2.9	0.02	0.087	2.21	41.4	66.0	1.06	584	0.98	0.43	12.3	58.0

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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
K976405		320	24.8	164.5	<0.002	<0.01	1.15	17.4	1	2.8	82.1	0.99	0.10	13.6	0.428	0.98
K976406		320	26.0	164.0	<0.002	<0.01	0.99	17.6	1	2.8	85.9	0.98	0.10	15.0	0.417	0.95
K976407		330	26.0	169.0	<0.002	0.01	1.01	17.1	2	2.7	83.4	0.98	0.10	15.9	0.421	0.92
K976408		800	26.5	116.5	0.002	0.04	1.01	16.1	3	2.3	107.0	0.92	0.09	12.2	0.440	2.05
K976409		910	25.8	118.5	0.004	0.07	0.98	16.2	4	2.3	98.5	0.84	0.08	11.6	0.398	2.28
K976410		390	29.2	142.5	<0.002	0.01	1.28	17.0	2	2.8	212	1.04	0.10	14.6	0.428	0.95
K976411		360	29.2	138.0	<0.002	0.01	1.29	16.2	2	2.8	252	1.03	0.09	13.5	0.434	0.92
K976412		320	30.3	146.0	<0.002	<0.01	1.31	17.0	1	2.8	250	1.02	0.10	15.3	0.428	0.86
K976413		360	28.8	147.0	<0.002	0.01	1.26	16.4	1	2.7	240	1.01	0.10	15.4	0.436	0.86
K976414		330	27.0	143.5	<0.002	0.01	1.09	16.9	1	2.8	187.0	1.07	0.09	14.9	0.447	0.85
K976415		330	24.9	146.5	<0.002	0.01	1.00	16.3	2	2.8	179.0	1.05	0.09	15.9	0.444	0.78
K976416		870	20.8	104.5	<0.002	0.04	0.89	15.3	2	2.2	82.0	0.78	0.10	10.1	0.421	0.73
K976417		730	23.1	141.5	<0.002	0.11	0.75	19.0	2	2.8	135.5	0.85	0.11	12.0	0.452	0.93
K976418		720	22.8	147.5	<0.002	0.15	0.72	19.3	1	3.0	144.0	0.87	0.10	12.6	0.442	1.04
K976419		860	22.4	140.5	0.002	0.05	0.65	18.5	2	2.9	102.5	0.81	0.09	11.3	0.406	1.06
K976420		850	22.3	138.0	<0.002	0.08	0.64	19.5	2	3.1	111.0	0.85	0.10	11.0	0.418	1.09
K976421		880	22.0	145.5	0.002	0.40	0.61	17.6	2	2.6	110.5	0.85	<0.05	12.0	0.412	0.81
K976422		930	22.1	151.0	<0.002	0.42	0.61	18.5	1	2.9	120.5	0.84	0.05	13.2	0.428	0.90
K976423		830	22.8	150.5	<0.002	0.72	0.67	18.5	1	3.1	135.5	0.89	<0.05	12.8	0.437	1.01
K976424		810	21.2	153.5	0.002	0.74	0.67	18.8	1	2.9	124.0	0.85	0.06	12.6	0.430	0.91
K976425		860	24.8	165.0	0.002	0.98	0.71	20.2	2	3.0	137.5	0.90	0.06	13.2	0.431	0.95
K976426		830	23.1	164.0	0.003	0.90	0.68	21.3	1	3.3	143.0	0.97	<0.05	12.8	0.445	1.11
K976427		830	22.5	156.5	0.002	0.94	0.74	20.6	2	3.2	127.0	0.95	<0.05	12.2	0.444	0.96
K976428		860	22.4	156.5	0.003	0.99	0.68	20.0	1	3.3	113.0	1.01	0.06	12.4	0.454	0.96
K976429		680	16.3	79.7	0.003	0.07	0.76	15.9	1	1.8	110.0	0.62	<0.05	8.3	0.426	0.49
K976430		810	18.7	115.0	<0.002	0.10	0.79	17.9	2	2.3	112.0	0.82	0.09	10.4	0.456	0.63
K976431		780	19.3	115.5	0.002	0.80	0.84	17.1	2	2.3	143.0	0.80	0.10	11.1	0.441	0.72
K976432		790	18.5	123.5	0.003	0.84	0.83	18.7	2	2.4	130.0	0.85	0.07	11.6	0.438	0.79
K976433		740	14.7	110.5	0.002	0.20	0.75	15.5	2	2.3	87.1	0.76	0.07	9.5	0.376	0.63
K976434		900	18.7	122.0	0.003	0.05	0.81	17.0	2	2.4	97.5	0.90	0.07	11.1	0.423	0.74
K976435		820	18.5	101.0	0.004	0.05	0.95	17.0	1	2.2	114.5	0.78	0.07	9.9	0.408	0.65
K976436		850	20.1	128.0	0.004	0.12	0.84	18.8	1	2.6	114.0	0.88	0.06	11.9	0.448	0.74
K976437		780	18.2	113.5	0.003	0.84	0.79	16.5	2	2.4	130.5	0.83	0.06	10.9	0.435	0.74
K976438		770	18.0	110.5	0.004	0.84	0.85	16.6	1	2.2	151.5	0.83	0.07	10.4	0.419	0.71
K976439		810	17.9	111.5	0.002	0.43	0.68	16.2	2	2.3	92.3	0.76	0.05	11.2	0.418	0.72
K976440		740	17.2	118.0	0.003	0.34	0.87	16.5	2	2.3	112.5	0.78	0.06	10.8	0.392	0.70
K976441		1080	20.9	129.0	<0.002	0.08	0.74	17.8	2	2.8	98.5	0.85	0.06	12.0	0.434	0.75
K976442		1090	18.2	133.0	0.002	0.08	0.76	17.3	1	2.7	95.5	0.87	0.05	12.5	0.427	0.72

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Finalized Date: 27- MAY- 2012  
 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K976405		2.4	102	1.5	17.9	114	84.7
K976406		2.1	110	1.5	20.2	111	87.2
K976407		2.1	111	1.5	20.8	111	88.1
K976408		3.4	147	1.2	21.7	161	93.0
K976409		3.9	151	1.2	21.8	160	89.8
K976410		2.0	85	1.7	19.5	106	79.3
K976411		1.9	89	1.7	17.7	125	77.6
K976412		1.6	72	1.7	18.7	108	76.2
K976413		1.8	75	1.7	19.3	116	81.3
K976414		2.0	108	1.7	20.3	113	80.9
K976415		2.3	122	1.6	21.6	105	86.2
K976416		2.7	152	1.1	18.2	127	81.4
K976417		2.7	162	1.2	16.2	136	88.1
K976418		3.0	162	1.2	15.9	142	89.0
K976419		2.9	156	1.2	17.2	141	84.1
K976420		2.9	164	1.2	16.4	142	86.6
K976421		2.6	139	1.2	21.5	127	119.0
K976422		2.7	147	1.3	20.1	129	96.4
K976423		2.7	155	1.4	17.2	127	94.8
K976424		2.6	146	1.3	20.2	130	103.5
K976425		2.7	153	1.3	20.2	127	100.5
K976426		2.9	156	1.4	17.8	128	104.5
K976427		2.7	155	1.3	19.1	131	108.5
K976428		2.7	157	1.4	19.0	140	105.5
K976429		2.1	135	0.9	17.3	121	78.8
K976430		2.7	153	1.2	20.3	135	105.5
K976431		2.7	147	1.2	19.8	129	97.5
K976432		2.7	149	1.3	19.8	124	104.0
K976433		2.3	141	1.0	17.2	120	84.2
K976434		2.8	149	1.2	20.5	137	101.5
K976435		2.6	144	1.1	20.6	163	92.4
K976436		2.8	154	1.2	21.2	140	109.0
K976437		2.7	143	1.2	18.4	119	101.5
K976438		2.6	142	1.2	19.7	122	132.0
K976439		2.7	147	1.1	17.0	141	91.3
K976440		2.7	142	1.1	18.2	131	98.1
K976441		2.6	141	1.3	22.3	143	98.9
K976442		2.5	137	1.3	22.5	136	101.0



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.

Hole	Easting	Northing	Elevation(GPS)	From (m)	To (m)	Interval (m)	Colour	Grain Size	Frozen	Mzn	DESCRIPTION	Sample #	Au ppm	As ppm	Hg ppm	Sb ppm	Tl ppm
PYAG-12-01	609027	7115187	1100	0.00	0.71	0.71	Grey	Silt w cobbles	yes	Suspect	Orange and yellow oxidation throughout	L828151	0.01	66.1	0.82	1.45	1.19
PYAG-12-01	609027	7115187	1100	0.71	1.47	0.76	Grey	Silt w cobbles	yes	Suspect	Orange and yellow oxidation throughout	L828152	0.01	114.5	1	1.32	1.75
PYAG-12-01	609027	7115187	1100	1.47	2.24	0.76	Grey	Silt w cobbles	Partial	Suspect	Still oxidation present, not as frozen	L828153	<0.01	2550	4.6	5.93	53
PYAG-12-01	609027	7115187	1100	2.24	3.00	0.76	Grey/Black	Silt w cobbles	no	suspect	Some blacker sootier soil present, with possible orpiment.	L828154	<0.01	1950	0.27	1.86	7.34
PYAG-12-01	609027	7115187	1100	3.00	3.76	0.76	Grey/black	Silt w cobbles	no	suspect	Getting darker, some orange material (oxidation? Orp?) with black soil	L828155	<0.01	2110	0.3	1.41	3.69
PYAG-12-01	609027	7115187	1100	3.76	4.52	0.76	Black	Silt w cobbles	no	probable	Increasing amount of orange material with black soil	L828156	<0.01	2140	0.37	1.3	3.39
PYAG-12-01	609027	7115187	1100	4.52	5.28	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil with white calcite crystals throughout	L828157	<0.01	1355	0.5	2.24	7.88
PYAG-12-01	609027	7115187	1100	5.28	6.05	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil with white calcite crystals throughout	L828158	0.01	1160	0.94	1.58	8.69
PYAG-12-01	609027	7115187	1100	6.05	6.81	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, less calcite than previous sample	L828159	<0.01	572	0.2	0.86	2.1
PYAG-12-01	609027	7115187	1100	6.81	7.57	0.76	Black	Silt w cobbles	no	non	Black, homogenous soil, small amount of white calcite crystals	L828160	<0.01	467	0.25	0.78	1.92
PYAG-12-01	609027	7115187	1100	7.57	8.33	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, small amount of white calcite crystals	L828161	0.01	5170	0.81	1.61	3.32
PYAG-12-01	609027	7115187	1100	8.33	9.09	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, small amount of white calcite crystals	L828162	<0.01	5600	0.81	1.48	2.87
PYAG-12-01	609027	7115187	1100	9.09	9.86	0.76	Black	Silt w cobbles	no	no	Black, homogenous soil, small amount of white calcite crystals	L828163	<0.01	6910	1.06	1.66	3.06
PYAG-12-01	609027	7115187	1100	9.86	10.62	0.76	Black	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips. Rep has a good chip	L828164	<0.01	4570	0.75	1.37	3.21
PYAG-12-01	609027	7115187	1100	10.62	11.38	0.76	Black/grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips.	L828165	0.16	1145	1.65	1.56	13.65

PYAG-12-01	609027	7115187	1100	11.38	12.14	0.76	Black/grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips.	L828166	0.03	1060	1.32	1.2	9.9
PYAG-12-01	609027	7115187	1100	12.14	12.90	0.76	Grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips.	L828167	<0.01	864	1.21	1.01	10.9
PYAG-12-01	609027	7115187	1100	12.90	13.67	0.76	Grey	Silt w cobbles	no	Py	Fine grained py in limestone cobbles/chips. Very good chip in rep	L828168	<0.01	1620	1.82	1.28	12.75
PYAG-12-01	609027	7115187	1100	13.67	14.43	0.76	Brown	Silt/Sand	no	no	Out of black sooty material. Similar material to top of hole	L828169	<0.01	1600	1.72	1.78	8.4
PYAG-12-01	609027	7115187	1100	14.43	15.19	0.76	Brown	Silt/sand	no	no	Brown material with some slightly oxidized areas.	L828170	<0.01	534	1.73	1.64	3.63
PYAG-12-02	608937	7115191	1104	0.00	0.61	0.61	Brown/Grey	Silt/cobbles	Yes	no	Some oxidized material (limonite).	L828171	<0.01	20.6	0.14	0.84	0.9
PYAG-12-02	608937	7115191	1104	0.61	1.37	0.76	Brown/Grey	Clay/cobbles	Yes	no	Contains chips of grey/black ls.	L828172	<0.01	30	0.38	0.87	0.53
PYAG-12-02	608937	7115191	1104	1.37	2.13	0.76	Grey/Brown	Clay/cobbles	Yes	no	Increasing amount of ls chips.	L828173	<0.01	25	0.51	0.79	0.37
PYAG-12-02	608937	7115191	1104	2.13	2.90	0.76	Grey/Brown	Clay/cobbles	No	No	Dry. Lots of ls chips. Drilling through a rock	L828174	<0.01	135	2.35	1.85	0.86
PYAG-12-03				0.00	0.91	0.91	Grey/Brown	Clay/cobbles	Yes	no	ls chips	L828175	<0.01	31	0.25	4.51	0.85
PYAG-12-03				0.91	1.68	0.76	Grey/Brown	Clay/cobbles	Yes	no	ls Chips	L828176	<0.01	23	0.15	0.86	0.69
PYAG-12-03				1.68	2.44	0.76	Grey	Clay/cobbles	Yes	no	ls Chips	L828177	0.01	32	0.28	0.6	0.43
PYAG-12-03				2.44	3.20	0.76	Grey	Clay/cobbles	No	no	Increasing amount of ls chips	L828178	<0.01	236	3.38	2.55	2.35
PYAG-12-03				3.20	3.96	0.76	Grey	Clay/cobbles	No	no	Increasing amount of ls chips	L828179	<0.01	279	3.6	2.88	2.27
PYAG-12-03				3.96	4.72	0.76	Grey	Clay/cobbles	No	no	Pulverised ls. Bedrock?	L828180	<0.01	54	0.6	0.82	0.63
PYAG-12-04				0.00	0.94	0.94	Grey/Brown	Silt + clay	Yes	no	Some greenish tint in parts of soil	L828181	<0.01	21.6	0.12	0.93	0.81
PYAG-12-04				0.94	1.70	0.76	Brown	Silt + clay	Yes	no	Still contains areas with green tint	L828182	<0.01	184.5	2.24	1.12	1.49
PYAG-12-04				1.70	2.46	0.76	Brown	Silt + clay	Yes	no	Still has pockets of green tinted soil	L828183	<0.01	135.5	9.9	0.59	1.77
PYAG-12-04				2.46	2.77	0.30	Brown/Black	Silt + clay	Semi	no	Darker material	L828184	<0.01	673	24.1	3.13	12.4
PYAG-12-04				2.77	3.38	0.61	Black/dark gre	Silt + clay	No	no	Uniform soil with small chips of black rock	L828185	<0.01	478	7.86	0.84	3.92
PYAG-12-04				3.38	4.14	0.76	Black	Silt + clay	No	no	Uniform soil with small chips of black rock	L828186	<0.01	897	11.1	0.85	6.25
PYAG-12-04				4.14	4.90	0.76	Black	Silt + clay	No	no	Uniform soil with small chips of black rock	L828187	<0.01	697	10.6	0.64	5.23
PYAG-12-04				4.90	5.66	0.76	Black	Silt + clay	No		Uniform soil with small chips of black rock	L828188	<0.01	508	14.4	0.72	3.6
PYAG-12-04				5.66	6.43	0.76	Black	Silt + clay	No		Slightly lighter coloured soil	L828189	<0.01	474	14.3	0.65	2.99
PYAG-12-04				6.43	7.19	0.76	Black	Silt + clay	No		Back to darker soil	L828190	<0.01	462	14.6	0.57	3.3
PYAG-12-04				7.19	7.95	0.76	Black	Silt + clay	No			L828191	<0.01	392	15.9	0.51	2.76
PYAG-12-04				7.95	8.71	0.76	Black	Silt + clay	No			L828192	0.01	776	13.8	0.66	5.9
PYAG-12-04				8.71	9.47	0.76	Black	Silt + clay	No			L828193	<0.01	609	19.1	0.63	4.52



PYAG-12-04				9.47	10.24	0.76	Black	Silt + clay	No			L828194	<0.01	895	20.7	0.62	5.23
PYAG-12-04				10.24	11.00	0.76	Black	Silt + clay	No			L828195	<0.01	792	27.3	0.54	4.68
PYAG-12-04				11.00	11.76	0.76	Black	Silt + clay	No	orp	Small orp chips, see rep	L828196	<0.01	788	30.3	0.49	3.17
PYAG-12-04				11.76	12.52	0.76	Black	Silt + clay	No	orp	Small orp chips	L828197	<0.01	621	28.4	0.47	3.28
PYAG-12-04				12.52	13.28	0.76	Black	Silt + clay	No	orp + real	Increasing amount of orp, possible realgar	L828198	0.02	12750	35	2.22	5.31
PYAG-12-04				13.28	14.04	0.76	Black	Silt + clay	No	orp + real	Same as 198	L828199	0.03	13150	28.5	1.91	4.75
PYAG-12-04				14.04	14.80	0.76	Black	Silt + clay	No	orp + real	Same as 198	L828200	0.05	9570	20.4	2.15	5.54
PYAG-12-04				14.80	15.56	0.76	Black	Silt + clay	No	orp + real	Lesser amounts	L828201	0.04	12850	28.7	2.74	6.59
PYAG-12-05	609136	7115176		0.00	0.76	0.76	Brown	Silt + clay	Yes	no	Till	L828202	<0.01	115	0.54	0.64	0.77
PYAG-12-05	609136	7115176		0.76	1.52	0.76	Brown	Silt + clay	Yes	no	Till	L828203	<0.01	167	0.59	0.71	0.97
PYAG-12-05	609136	7115176		1.52	2.29	0.76	Brown	Silt + clay	Yes	no	Till	L828204	<0.01	281	14.2	0.64	1.67
PYAG-12-06	609121	7115175		0.00	0.76	0.76	Brown	Silt + clay	Yes	no	Till	L828205	<0.01	97.5	4.6	1.09	0.71
PYAG-12-06	609121	7115175		0.76	1.52	0.76	Brown	Silt + clay	Yes	no	Till	L828206	<0.01	117	10.8	0.63	0.72
PYAG-12-06	609121	7115175		1.52	2.29	0.76	Brown	Silt + clay	Yes	no	Till	L828207	<0.01	385	6.93	0.48	2.16
PYAG-12-07				0.00	1.02	1.02	Grey/Brown	Silt + clay	Yes		Mostly silt+clay plus some cobbles. Till	L828208	<0.01	17.8	0.1	0.81	0.74
PYAG-12-07				1.02	1.78	0.76	Brown	Silt + clay	Yes		Till	L828209	<0.01	25.6	0.11	0.78	0.64
PYAG-12-07				1.78	2.54	0.76	Brown	Silt + clay	Yes		Till	L828210	<0.01	22	0.08	0.68	0.54
PYAG-12-07				2.54	3.30	0.76	Brown/Black	Silt + clay	Semi		Till	L828211	<0.01	1685	0.88	1.17	1.2
PYAG-12-07				3.30	4.06	0.76	Black/dark gre	Silt + clay	No		Till	L828212	<0.01	1185	0.3	0.94	1.1
PYAG-12-07				4.06	4.83	0.76	Black	Silt + clay	No		Darker material	L828213	<0.01	1505	0.28	2.61	3.72
PYAG-12-07				4.83	5.59	0.76	Black	Silt + clay	No		Darker material	L828214	<0.01	746	0.22	1.4	3.39
PYAG-12-07				5.59	6.35	0.76	Black	Silt + clay	No		Darker material	L828215	<0.01	241	0.18	1.03	3.21
PYAG-12-07				6.35	7.11	0.76	Black	Silt + clay	No		Darker material	L828216	<0.01	442	0.2	1.25	3.73
PYAG-12-07				7.11	7.87	0.76	Black	Silt + clay	No		Darker material	L828217	<0.01	169	0.18	1.16	1.44
PYAG-12-07				7.87	8.64	0.76	Black	Silt + clay	No		Darker material	L828218	<0.01	189.5	0.16	1.01	1.32
PYAG-12-07				8.64	9.40	0.76	Black	Silt + clay	No		Darker material	L828219	<0.01	81.1	0.15	1.07	1.25
PYAG-12-07				9.40	10.16	0.76	Black	Silt + clay	No	Poss orp	Possible orp, specs of orange in mud (very minor)	L828220	<0.01	110	0.18	1.1	1.39
PYAG-12-07				10.16	10.92	0.76	Black	Silt + clay	No			L828221	<0.01	70.5	0.2	0.93	1.17
PYAG-12-07				10.92	11.68	0.76	Black	Silt + clay	No			L828222	<0.01	76.3	0.17	0.98	1.13
PYAG-12-07				11.68	12.45	0.76	Black	Silt + clay	No			L828223	<0.01	64.5	0.19	1.17	1.24
PYAG-12-07				12.45	13.21	0.76	Black	Silt + clay	No			L828224	<0.01	44.5	0.18	1.08	1.19
PYAG-12-08	609238	7115191	1078	0.00	0.51	0.51	Grey/Brown	Silt + clay	Yes		Till - oxi	L828225	<0.01	885	0.12	0.84	1.89
PYAG-12-08	609238	7115191	1078	0.51	1.27	0.76	Grey/Brown	Silt + clay	Yes		Till	L828226	<0.01	683	0.5	0.86	5.58
PYAG-12-08	609238	7115191	1078	1.27	2.03	0.76	Grey/Brown	Silt + clay	semi		Till	L828227	<0.01	846	0.65	0.95	4.01
PYAG-12-08	609238	7115191	1078	2.03	2.79	0.30	Black/dark gre	Silt	no		Till - darker material, lots of gravel	L828228	<0.01	866	26.3	13.5	13.85
PYAG-12-08	609238	7115191	1078	2.79	3.56	0.76	Black/dark gre	Silt	No		Till - darker material, lots of gravel	L828229	<0.01	736	28.5	13.45	14.7

PYAG-12-09	609286	7115196	1081	0.00	0.66	0.66	Brown	Silt + clay	Yes		Till	L828230	<0.01	25.6	0.14	0.89	0.63
PYAG-12-09	609286	7115196	1081	0.66	1.42	0.76	Grey	Silt + clay	Yes		Till - more clay rich	L828231	<0.01	46.6	0.13	0.91	0.6
PYAG-12-09	609286	7115196	1081	1.42	2.18	0.76	Grey	Silt + clay	semi		Till - clay rich	L828232	<0.01	67.3	0.17	0.89	0.62
PYAG-12-09	609286	7115196	1081	2.18	2.95	0.30	Grey	Silt + clay	no			L828233	0.03	1785	3.79	1.43	7.91
PYAG-12-09	609286	7115196	1081	2.95	3.71	0.76	Grey	Silt + clay	No	real?	Very smal red fleck visible, hole making water	L828234	<0.01	536	2.65	1.09	7.05
PYAG-12-09	609286	7115196	1081	3.71	4.47	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828235	<0.01	653	3.09	1.21	7.81
PYAG-12-09	609286	7115196	1081	4.47	5.23	0.76	Grey	Silt + clay	No		F grained dissem py throughout.	L828236	<0.01	398	2.11	0.97	5.69
PYAG-12-09	609286	7115196	1081	5.23	5.99	0.76	Grey	Silt + clay	No		F grained dissem py throughout.	L828237	<0.01	185.5	0.93	1.18	3.03
PYAG-12-09	609286	7115196	1081	5.99	6.76	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828238	<0.01	261	1.85	1.05	5.95
PYAG-12-09	609286	7115196	1081	6.76	7.52	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828239	<0.01	96	0.41	1.01	2.03
PYAG-12-09	609286	7115196	1081	7.52	8.28	0.76	Grey	Silt + clay	No		Lots of angular cobbles	L828240	<0.01	90.5	0.35	1.26	2
PYAG-12-10	609333	7115193	1083	0.00	0.71	0.71	Brown	Silt + clay	Yes		Till	L828241	<0.01	22.7	0.14	0.86	0.64
PYAG-12-10	609333	7115193	1083	0.71	1.47	0.76	Brown	Silt + clay	Yes		Till - some green/orange weathering on soil	L828242	<0.01	17.1	0.13	0.89	0.6
PYAG-12-10	609333	7115193	1083	1.47	2.24	0.76	Brown	Silt + clay	no		Till - clay rich	L828243	<0.01	16.6	0.1	0.9	0.66
PYAG-12-10	609333	7115193	1083	2.24	3.00	0.76	Brown/grey	Silt + clay	no		Till - clay rich	L828244	<0.01	16.8	0.11	0.87	0.66
PYAG-12-10	609333	7115193	1083	3.00	3.76	0.76	Grey	Silt + clay	No			L828245	<0.01	13.9	0.08	0.76	0.59
PYAG-12-10	609333	7115193	1083	3.76	4.52	0.76	Grey	Silt + clay	No		Lots of cobbles	L828246	<0.01	14.2	0.11	0.73	0.6
PYAG-12-10	609333	7115193	1083	4.52	5.28	0.76	Grey	Silt + clay	No			L828247	<0.01	13.7	0.08	0.81	0.65
PYAG-12-10	609333	7115193	1083	5.28	6.05	0.76	Grey	Silt + clay	No			L828248	<0.01	13.4	0.09	0.81	0.63
PYAG-12-10	609333	7115193	1083	6.05	6.81	0.76	Grey	Silt + clay	No			L828249	0.02	24.7	0.09	0.82	0.65
PYAG-12-10	609333	7115193	1083	6.81	7.57	0.76	Grey	Silt + clay	No			L828250	<0.01	56.6	0.08	0.8	0.66
PYAG-12-10	609333	7115193	1083	7.57	8.33	0.76	Black/Grey	Silt	No		Crushed up bedrock?	L828251	<0.01	300	0.45	0.85	1.73
PYAG-12-10	609333	7115193	1083	8.33	9.09	0.76	Black/Grey	Silt	No		Crushed up bedrock?	L828252	<0.01	234	0.43	0.75	1.58
PYAG-12-10	609333	7115193	1083	9.09	9.86	0.76	Black/Grey	Silt	No		Crushed up bedrock?	L828253	<0.01	3400	0.86	1.18	3.06
PYAG-12-10	609333	7115193	1083	9.86	10.62	0.76	Black/Grey	Silt	No	Orp?	Possible orp on weakly reactive ls	L828254	<0.01	4220	0.92	1.17	3.34
PYAG-12-10	609333	7115193	1083	10.62	11.28	0.66	Black/Grey	Silt	No	py	F grained dissem py in some chips	L828255	<0.01	4430	0.74	1.07	2.44
PYAG-12-11	609396	7115196	1083	0.00	1.02	1.02	Brown	Silt + clay	Yes		Till	L828256	<0.01	22.2	0.11	0.98	0.69
PYAG-12-11	609396	7115196	1083	1.02	1.78	0.76	Brown	Silt + clay	Yes		Till	L828257	<0.01	23.8	0.1	0.93	0.73
PYAG-12-11	609396	7115196	1083	1.78	2.54	0.76	Brown	Silt + clay	Yes		Till	L828258	<0.01	19.8	0.1	0.91	0.65
PYAG-12-11	609396	7115196	1083	2.54	3.30	0.30	Brown/grey	Silt + clay	no		Till	L828259	<0.01	20.4	0.1	1.03	0.8
PYAG-12-11	609396	7115196	1083	3.30	4.06	0.76	Grey	Silt + clay	No		Till - clay rich	L828260	<0.01	16.8	0.11	0.92	0.75
PYAG-12-11	609396	7115196	1083	4.06	4.83	0.76	Grey	Silt + clay	No		Till - clay rich	L828261	<0.01	16.2	0.12	0.98	0.68
PYAG-12-11	609396	7115196	1083	4.83	5.59	0.76	Grey	Silt + clay	No		Grey clay	L828262	<0.01	15.4	0.13	0.89	0.65
PYAG-12-11	609396	7115196	1083	5.59	6.35	0.76	Grey	Silt + clay	No		Grey clay	L828263	<0.01	30.6	0.11	1.05	0.68
PYAG-12-11	609396	7115196	1083	6.35	7.11	0.76	Grey	Silt + clay	No		Grey clay	L828264	<0.01	18.4	0.09	0.89	0.66
PYAG-12-11	609396	7115196	1083	7.11	7.87	0.76	Grey	Silt + clay	No		More cobbles	L828265	<0.01	12.8	0.02	0.68	0.59
PYAG-12-11	609396	7115196	1083	7.87	8.64	0.76	Grey	Silt	No		Pulverised bedrock	L828266	<0.01	12.5	0.03	0.66	0.56

PYAG-12-12	609441	7115198	1079	0.00	1.02	1.02	Brown	Silt + clay	Yes		Till - some oxidized material	L828267	<0.01	26.3	0.12	0.96	0.7
PYAG-12-12	609441	7115198	1079	1.02	1.78	0.76	Brown	Silt + clay	Yes		Till - some oxidized material	L828268	<0.01	14.8	0.11	0.86	0.66
PYAG-12-12	609441	7115198	1079	1.78	2.54	0.76	Brown	Silt + clay	Yes		Till - some oxidized material	L828269	<0.01	14.3	0.1	0.89	0.65
PYAG-12-12	609441	7115198	1079	2.54	3.30	0.30	Brown/grey	Silt + clay	no		Till - more clay than above	L828270	<0.01	15.2	0.15	0.83	0.64
PYAG-12-12	609441	7115198	1079	3.30	4.06	0.76	Grey	Silt + clay	No		Till - more clay than above	L828271	<0.01	14.8	0.12	0.83	0.66
PYAG-12-12	609441	7115198	1079	4.06	4.83	0.76	Grey	Silt + clay	No		Till - more clay than above	L828272	<0.01	14.3	0.09	0.72	0.59
PYAG-12-12	609441	7115198	1079	4.83	5.59	0.76	Grey	Silt + clay	No		Large ls cobbles	L828273	<0.01	15.6	0.1	0.8	0.65
PYAG-12-12	609441	7115198	1079	5.59	6.35	0.76	Grey	Silt + clay	No		Large ls cobbles	L828274	<0.01	14.3	0.04	1.18	0.74
PYAG-12-12	609441	7115198	1079	6.35	7.11	0.76	Grey	Silt + clay	No			L828275	<0.01	12.6	0.03	0.89	0.74
PYAG-12-12	609441	7115198	1079	7.11	7.87	0.76	Grey	Silt + clay	No		Less clay	L828276	<0.01	9.4	0.01	0.54	0.75
PYAG-12-12	609441	7115198	1079	7.87	8.64	0.76	Grey	Silt + clay	No			L828277	<0.01	9.5	0.01	0.56	0.67
PYAG-12-12	609441	7115198	1079	8.64	9.40	0.76	Grey	Silt + clay	No		Pulverised bedrock, black/grey. Unreactive, soft (arg?)	L828278	<0.01	13.2	0.02	0.64	0.81
PYAG-12-12	609441	7115198	1079	9.40	10.16	0.76	Grey	Silt + clay	No		Pulverised bedrock, black/grey. Unreactive, soft (arg?)	L828279	<0.01	10.4	0.01	0.6	0.75
PYAG-12-13	609526	7115199	1073	0.00	0.61	0.61	Brown	Silt + clay	Yes		Till	L828280	<0.01	18.5	0.09	0.84	0.62
PYAG-12-13	609526	7115199	1073	0.61	1.37	0.76	Brown	Silt + clay	Yes		Till - clay rich	L828281	<0.01	19.9	0.04	0.94	1.04
PYAG-12-13	609526	7115199	1073	1.37	2.13	0.76	Brown	Silt + clay	Yes		Till - clay rich	L828282	<0.01	18.2	0.04	0.83	0.92
PYAG-12-13	609526	7115199	1073	2.13	2.90	0.76	Grey	Silt + clay	no		Till - clay rich	L828283	<0.01	12.9	0.03	0.82	0.84
PYAG-12-13	609526	7115199	1073	2.90	3.66	0.76	Grey	Silt + clay	No		Till - clay rich	L828284	<0.01	13.1	0.04	0.7	1
PYAG-12-13	609526	7115199	1073	3.66	4.42	0.76	Grey	Silt + clay	No		Till - clay rich	L828285	<0.01	14.2	0.03	0.87	1.07
PYAG-12-13	609526	7115199	1073	4.42	5.18	0.76	Grey	Silt + clay	No		Till - clay rich	L828286	<0.01	12.8	0.03	0.88	1.08
PYAG-12-14	608959	7115272	1091	0.00	0.76	0.76	Grey/Brown	Silt + clay	Yes		Till - ls chips and cobbles	L828287	<0.01	108	1.08	0.79	1.62
PYAG-12-14	608959	7115272	1091	0.76	1.52	0.76	Grey/Brown	Silt + clay	Yes		LS chips and cobbles	L828288	<0.01	262	2.07	1.37	4.04
PYAG-12-14	608959	7115272	1091	1.52	2.29	0.76	Grey/Brown	Silt + clay	Semi		LS chips and cobbles	L828289	<0.01	148	3.96	2.27	3.65
PYAG-12-14	608959	7115272	1091	2.29	3.05	0.76	Grey/Brown	Silt + clay	No		LS chips and cobbles	L828290	<0.01	151	3.17	2.46	3.21
PYAG-12-14	608959	7115272	1091	3.05	3.81	0.76	Grey/Brown	Silt + clay	No		LS chips and cobbles	L828291	<0.01	132	3.63	2.52	3.67
PYAG-12-15	609036	7115280	1088	0.00	0.91	0.91	Brown/black	Silt + clay	Yes		Brown materials as well as black clay w oxidation	L828292	<0.01	2490	21.5	15.55	67.6
PYAG-12-15	609036	7115280	1088	0.91	1.68	0.76	Brown	Silt + clay	Yes		Brown material, lots of oxi	L828293	<0.01	1910	0.87	1.86	23.2
PYAG-12-15	609036	7115280	1088	1.68	2.44	0.76	Brown/black	Silt + clay	Semi		Brown material with some black clay	L828294	<0.01	1370	0.71	1.53	25.3
PYAG-12-15	609036	7115280	1088	2.44	3.20	0.76	Brown	Silt + clay	No		brown material, oxi	L828295	<0.01	522	0.56	0.79	13.6
PYAG-12-15	609036	7115280	1088	3.20	3.96	0.76	Brown	Silt + clay	No		brown material, oxi	L828296	<0.01	263	0.08	0.5	9.08
PYAG-12-15	609036	7115280	1088	3.96	4.72	0.76	Brown	Silt + clay	No		brown material, oxi	L828297	<0.01	302	0.26	0.74	9.63
PYAG-12-15	609036	7115280	1088	4.72	5.49	0.76	Brown/grey	Silt + clay	No		brown material, slightly more clay rich	L828298	<0.01	298	0.17	0.7	8.83
PYAG-12-15	609036	7115280	1088	5.49	6.25	0.76	Brown/grey	Silt + clay	No		clay rich	L828299	<0.01	276	0.09	0.72	4.66
PYAG-12-15	609036	7115280	1088	6.25	7.01	0.76	Brown/grey	Silt + clay	No		clay rich	L828300	<0.01	295	0.07	0.72	5.07

PYAG-12-15	609036	7115280	1088	7.01	7.77	0.76	Brown	Silt + clay	No		clay rich	L828301	<0.01	338	0.06	0.84	3.15
PYAG-12-15	609036	7115280	1088	7.77	8.53	0.76	Brown	Silt + clay	No		clay rich	L828302	<0.01	270	0.06	0.74	3.3
PYAG-12-15	609036	7115280	1088	8.53	9.30	0.76	Brown	Silt + clay	No		grey, pulverised ls	L828303	<0.01	118.5	0.07	0.76	2.01
PYAG-12-15	609036	7115280	1088	9.30	10.06	0.76	Brown	Silt + clay	No		grey, pulverised ls	L828304	<0.01	193.5	0.15	0.7	2.89
PYAG-12-16	609128	7115286	1083	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828305	<0.01	1075	0.05	0.75	1.15
PYAG-12-16	609128	7115286	1083	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	L828306	<0.01	796	0.03	0.97	1.2
PYAG-12-16	609128	7115286	1083	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till	L828307	<0.01	1170	0.03	0.87	1.09
PYAG-12-16	609128	7115286	1083	2.29	3.05	0.76	Brown	Silt + clay	No		Till	L828308	<0.01	45.2	0.03	0.83	1.06
PYAG-12-16	609128	7115286	1083	3.05	3.81	0.76	Brown	Silt + clay	No		Less clay, more cobbles	L828309	<0.01	33.1	0.03	0.76	0.95
PYAG-12-16	609128	7115286	1083	3.81	4.57	0.76	Brown/grey	Silt	No			L828310	<0.01	39.9	0.04	0.74	0.98
PYAG-12-16	609128	7115286	1083	4.57	5.33	0.76	Grey	Silt	No		Likely pulverised bedrock (arg)	L828311	<0.01	40	0.03	0.69	1.02
PYAG-12-16	609128	7115286	1083	5.33	6.10	0.76	Grey	Silt	No		Pulverised bedrock	L828312	<0.01	32.4	0.03	0.63	1.08
PYAG-12-16	609128	7115286	1083	6.10	6.86	0.76	Grey	Silt	No		Pulverised bedrock	L828313	<0.01	26.7	0.03	0.67	1.07
PYAG-12-17	609190	7115270	1072	0.00	0.30	0.30	Brown	Silt + clay	Yes		Brown, clay rich	L828314	<0.01	1720	0.29	0.9	14.1
PYAG-12-17	609190	7115270	1072	0.30	1.07	0.76	Brown	Silt + clay	Yes		Brown, clay - wet	L828315	<0.01	1245	0.07	0.88	4.05
PYAG-12-17	609190	7115270	1072	1.07	1.83	0.76	Brown	Silt + clay	Semi		Brown, clay - wet	L828316	<0.01	1705	0.04	1	2.24
PYAG-12-17	609190	7115270	1072	1.83	2.59	0.76	Brown/grey	Silt + clay	No		More grey clay	L828317	<0.01	216	0.04	0.78	1.13
PYAG-12-17	609190	7115270	1072	2.59	3.35	0.76	Brown/grey	Silt + clay	No		More grey clay	L828318	<0.01	99.5	0.04	0.85	1.07
PYAG-12-17	609190	7115270	1072	3.35	4.11	0.76	Grey	Silt	No		Grey clay with ls chips	L828319	<0.01	60.6	0.04	0.76	1.02
PYAG-12-17	609190	7115270	1072	4.11	4.88	0.76	Grey	Silt	No		Grey clay with ls chips	L828320	<0.01	69.6	0.05	0.86	1.08
PYAG-12-17	609190	7115270	1072	4.88	5.64	0.76	Grey	Silt	No		Very wet, poor recovery	L828321	<0.01	147.5	0.05	0.67	1.02
PYAG-12-17	609190	7115270	1072	5.64	6.40	0.76	Grey	Silt	No		Very wet, poor recovery	L828322	<0.01	314	0.1	0.72	1.97
PYAG-12-18	609241	7155283	1074	0.00	0.30	0.30	Brown/black	Silt + clay	Yes		Somewhat organic	L828323	<0.01	352	0.05	0.6	0.6
PYAG-12-18	609241	7155283	1074	0.30	1.07	0.76	Dark grey	Silt + clay	Yes		Clay rich, green tint plus oxi on some material	L828324	<0.01	237	0.17	0.72	0.75
PYAG-12-18	609241	7155283	1074	1.07	1.83	0.76	dark grey	Silt + clay	Semi		Clay rich, green tint plus oxi on some material	L828325	<0.01	218	0.22	0.64	0.64
PYAG-12-18	609241	7155283	1074	1.83	2.59	0.76	Grey	Silt + clay	No		Clay rich, not as much oxi	L828326	<0.01	122.5	0.1	0.83	0.59
PYAG-12-18	609241	7155283	1074	2.59	3.35	0.76	Grey	Silt + clay	No		Clay rich, not as much oxi	L828327	<0.01	54.3	0.09	0.74	0.56
PYAG-12-18	609241	7155283	1074	3.35	4.11	0.76	Grey	Silt + clay	No		Clay rich, no oxi	L828328	<0.01	42.9	0.08	0.73	0.8
PYAG-12-18	609241	7155283	1074	4.11	4.88	0.76	Grey	Silt + clay	No		Less clay than 328 but still clay rich	L828329	<0.01	32.1	0.04	0.74	0.9
PYAG-12-18	609241	7155283	1074	4.88	5.64	0.76	Grey	Silt + clay	No		Less clay than 328 but still clay rich	L828330	<0.01	33.8	0.04	0.76	1
PYAG-12-18	609241	7155283	1074	5.64	6.40	0.76	Grey	Silt + clay	No		likely pulverised bedrock (arg)	L828331	<0.01	26.9	0.04	0.74	1.05
PYAG-12-18	609241	7155283	1074	6.40	7.16	0.76	Grey	Silt + clay	No		likely pulverised bedrock (arg)	L828332	<0.01	68.8	0.12	0.64	0.79
PYAG-12-18	609241	7155283	1074	7.16	7.92	0.76	Grey	Silt + clay	No		pulverised bedrock	L828333	<0.01	27.5	0.03	0.66	0.97
PYAG-12-19	609269	7115287	1067	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828334	<0.01	21.4	0.09	0.75	0.56
PYAG-12-19	609269	7115287	1067	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	L828335	<0.01	20.3	0.11	0.73	0.64
PYAG-12-19	609269	7115287	1067	1.52	2.29	0.76	Brown/grey	Silt + clay	Semi		Till + grey clay	L828336	<0.01	21.1	0.12	0.75	0.64
PYAG-12-19	609269	7115287	1067	2.29	3.05	0.76	Grey	Silt + clay	No		grey clay plus ls chips	L828337	<0.01	17.4	0.04	0.66	0.92

PYAG-12-19	609269	7115287	1067	3.05	3.81	0.76	Grey	Silt + clay	No		clay rich	L828338	<0.01	14.1	0.02	0.56	0.87
PYAG-12-19	609269	7115287	1067	3.81	4.57	0.76	Grey	Silt + clay	No		clay rich	L828339	<0.01	13.4	0.02	0.54	0.87
PYAG-12-19	609269	7115287	1067	4.57	5.33	0.76	Grey	Silt + clay	No		clay rich	L828340	<0.01	12	0.02	0.57	0.79
PYAG-12-19	609269	7115287	1067	5.33	6.10	0.76	Grey	Silt + clay	No		Pulverised bedrock	L828341	<0.01	11.9	0.02	0.57	0.81
PYAG-12-19	609269	7115287	1067	6.10	6.86	0.76	Grey	Silt + clay	No		Pulverised bedrock (arg)	L828342	<0.01	13.9	0.03	0.7	1.03
PYAG-12-19	609269	7115287	1067	6.86	7.62	0.76	Grey	Silt + clay	No		Pulverised bedrock (arg)	L828343	<0.01	14.2	0.03	0.68	1.02
PYAG-12-20	609337	7115277	1070	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828344	<0.01	15.7	0.1	0.66	0.51
PYAG-12-20	609337	7115277	1070	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	L828345	<0.01	15.4	0.1	0.8	0.59
PYAG-12-20	609337	7115277	1070	1.52	2.29	0.76	Brown/grey	Silt + clay	Semi		Till - some oxi	L828346	<0.01	15.6	0.08	0.83	0.57
PYAG-12-20	609337	7115277	1070	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till - oxi	L828347	<0.01	16.8	0.1	0.74	0.7
PYAG-12-20	609337	7115277	1070	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till - oxi	L828348	<0.01	16.3	0.1	0.75	0.76
PYAG-12-20	609337	7115277	1070	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Till	L828349	<0.01	19.3	<0.1	0.76	0.79
PYAG-12-20	609337	7115277	1070	4.57	5.33	0.76	Brown/grey	Silt + clay	No		Till - clay rich - still some oxi, mainly on cobbles	L828350	<0.01	14.6	<0.1	0.71	0.79
PYAG-12-20	609337	7115277	1070	5.33	6.10	0.76	Brown/grey	Silt + clay	No		Till - clay rich - still some oxi, mainly on cobbles	L828351	<0.01	13.7	0.06	0.73	0.8
PYAG-12-20	609337	7115277	1070	6.10	6.86	0.76	Brown/grey	Silt + clay	No		Till - clay rich - still some oxi, some ls chils with green tint	L828352	<0.01	16.3	0.07	0.7	0.69
PYAG-12-20	609337	7115277	1070	6.86	7.62	0.76	Grey	Silt + clay	No		Till - clay rich - still some oxi, some ls chils with green tint	L828353	<0.01	17.4	0.1	0.76	0.68
PYAG-12-20	609337	7115277	1070	7.62	7.82	0.20	Grey	Silt + clay	No		Hit bedrock, weakly reactive ls + chips pf red mineral, doesn't look like orp (likely just a flake of oxidized material)	L828354	<0.01	16	0.07	0.73	0.66
PYAG-12-21	609388	7115282	1073	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	L828355	<0.01	14.7	0.08	0.73	0.53
PYAG-12-21	609388	7115282	1073	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till - clay rich	L828356	<0.01	15.3	0.1	0.71	0.71
PYAG-12-21	609388	7115282	1073	1.68	2.44	0.76	Brown/grey	Silt + clay	Semi		Till - clay rich, some grey clay	L828357	<0.01	15.1	0.06	0.77	0.78
PYAG-12-21	609388	7115282	1073	2.44	3.20	0.76	Grey	Silt + clay	No		Till - clay rich, some grey clay	L828358	<0.01	14.7	0.07	0.72	0.64
PYAG-12-21	609388	7115282	1073	3.20	3.96	0.76	Grey	Silt + clay	No		Till - clay rich, some grey clay	L828359	<0.01	13.9	0.06	0.65	0.67
PYAG-12-21	609388	7115282	1073	3.96	4.72	0.76	Grey	Silt + clay	No		Grey clay and minor till	L828360	<0.01	14.7	0.05	0.54	0.72
PYAG-12-21	609388	7115282	1073	4.72	5.49	0.76	Grey	Silt + clay	No		Grey clay	L828361	<0.01	14.9	0.05	0.59	0.77
PYAG-12-21	609388	7115282	1073	5.49	5.74	0.25	Grey	Silt + clay	No		Bedrock, ls	L828362	<0.01	11.9	0.11	0.51	0.55
PYAG-12-22	609431	7115282	1071	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	L828363	<0.01	15.1	0.09	0.73	0.73
PYAG-12-22	609431	7115282	1071	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	L828364	<0.01	12.1	<0.1	0.64	0.69
PYAG-12-22	609431	7115282	1071	1.68	2.44	0.76	Brown/grey	Silt + clay	Semi		Till - grey clay	L828365	<0.01	17.3	0.1	0.74	0.71
PYAG-12-22	609431	7115282	1071	2.44	3.20	0.76	Grey	Silt + clay	No		Till - grey clay	L828366	<0.01	18.9	0.09	0.65	0.63
PYAG-12-22	609431	7115282	1071	3.20	3.96	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828367	<0.01	15.5	0.09	0.6	0.6
PYAG-12-22	609431	7115282	1071	3.96	4.72	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828368	<0.01	18.6	0.04	0.45	0.78
PYAG-12-22	609431	7115282	1071	4.72	5.49	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828369	<0.01	17.4	<0.1	0.43	0.73
PYAG-12-22	609431	7115282	1071	5.49	6.25	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828370	<0.01	20.7	0.03	0.49	0.94
PYAG-12-22	609431	7115282	1071	6.25	7.01	0.76	Grey	Silt + clay	No		grey clay with ls chips	L828371	<0.01	18	0.03	0.43	0.76
PYAG-12-22	609431	7115282	1071	7.01	7.77	0.76	Grey	Silt + clay	No		Pulverised bedrock	L828372	<0.01	18.6	0.02	0.41	0.81
PYAG-12-22	609431	7115282	1071	7.77	8.53	0.76	Grey	Silt + clay	No		Pulverised bedrock	L828373	<0.01	19.8	0.03	0.46	0.83

PYAG-12-23	609142	7115361	1069	0.00	0.97	0.97	Brown	Silt + clay	Yes		Till - some oxi	L828374	<0.01	31.2	0.05	0.68	0.93
PYAG-12-23	609142	7115361	1069	0.97	1.73	0.76	Brown	Silt + clay	Yes		Till - some oxi	L828375	<0.01	1090	<0.1	0.89	1
PYAG-12-23	609142	7115361	1069	1.73	2.49	0.76	Brown/grey	Silt + clay	Yes		Till with grey clay, some oxi	L828376	<0.01	138	0.03	0.76	0.98
PYAG-12-23	609142	7115361	1069	2.49	3.25	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828377	<0.01	34	0.02	0.58	0.97
PYAG-12-23	609142	7115361	1069	3.25	4.01	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828378	<0.01	23.6	<0.1	0.7	0.97
PYAG-12-23	609142	7115361	1069	4.01	4.78	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828379	<0.01	19.3	<0.1	0.69	1.13
PYAG-12-23	609142	7115361	1069	4.78	5.54	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828380	<0.01	19.8	0.1	0.64	1.04
PYAG-12-23	609142	7115361	1069	5.54	6.30	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets)	L828381	<0.01	18.6	0.03	0.62	1.01
PYAG-12-23	609142	7115361	1069	6.30	7.06	0.76	Grey	Silt + clay	No		Uniform grey material, some clay (chips arg with ca veinlets), likely pulverised bedrock	L828382	<0.01	21.8	0.03	0.7	1.04
PYAG-12-24	609195	7115354	1056	0.00	0.46	0.46	Brown	Silt + clay	Yes		Till, brown material with some oxi, including some green tint from chips of green ls	L828383	<0.01	51.1	0.06	0.72	1.25
PYAG-12-24	609195	7115354	1056	0.46	1.22	0.76	Brown	Silt + clay	Yes		Till, brown material with some oxi, including some green tint from chips of green ls	L828384	<0.01	189	0.08	1.09	0.71
PYAG-12-24	609195	7115354	1056	1.22	1.98	0.76	Brown/grey	Silt + clay	Yes		Till, grey clay	L828385	<0.01	487	0.11	1.17	0.68
PYAG-12-24	609195	7115354	1056	1.98	2.74	0.76	Grey	Silt + clay	No		Till, less grey clay	L828386	<0.01	517	0.09	0.68	0.4
PYAG-12-24	609195	7115354	1056	2.74	3.51	0.76	Grey	Silt + clay	No		Grey clay, lots of oxi	L828387	<0.01	652	0.06	0.74	0.38
PYAG-12-24	609195	7115354	1056	3.51	4.27	0.76	Grey	Silt + clay	No		Less clay, crushed bedrock? (arg + ca stringers)	L828388	<0.01	55.4	0.03	0.76	0.71
PYAG-12-24	609195	7115354	1056	4.27	5.03	0.76	Grey	Silt + clay	No		Crushed bedrock (arg + ca stringers)	L828389	<0.01	57.9	0.03	0.71	0.79
PYAG-12-24	609195	7115354	1056	5.03	5.79	0.76	Grey	Silt + clay	No		Crushed bedrock (arg + ca stringers)	L828390	<0.01	23	0.02	0.65	0.79
PYAG-12-24	609195	7115354	1056	5.79	6.55	0.76	Grey	Silt + clay	No		Crushed bedrock (arg + ca stringers)	L828391	<0.01	27.8	0.02	0.7	0.83
PYAG-12-25	609246	7115351	1062	0.00	0.76	0.76	Brown/grey	Silt + clay	Yes		Brown till, some oxi, some grey clay	L828392	<0.01	88.4	0.08	0.85	0.63
PYAG-12-25	609246	7115351	1062	0.76	1.52	0.76	Brown/grey	Silt + clay	Yes		Till, increased amount of grey clay	L828393	<0.01	40.4	0.08	0.86	0.61
PYAG-12-25	609246	7115351	1062	1.52	2.29	0.76	Grey	Silt + clay	Semi		Mostly grey clay, minor brown till	L828394	<0.01	43.1	0.05	0.67	0.62
PYAG-12-25	609246	7115351	1062	2.29	3.05	0.76	Grey	Silt + clay	No		Grey clay	L828395	<0.01	24.6	0.03	0.6	0.55
PYAG-12-25	609246	7115351	1062	3.05	3.81	0.76	Grey	Silt + clay	No		Wet grey clay (hole wet rest of the way)	L828396	<0.01	9.1	0.02	0.46	0.49

PYAG-12-25	609246	7115351	1062	3.81	4.57	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls	L828397	<0.01	13.4	0.02	0.54	0.64
PYAG-12-25	609246	7115351	1062	4.57	5.33	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls	L828398	<0.01	10.9	0.01	0.48	0.62
PYAG-12-25	609246	7115351	1062	5.33	6.10	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls	L828399	<0.01	9.4	0.01	0.41	0.56
PYAG-12-25	609246	7115351	1062	6.10	6.86	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls, low recovery	L828400	<0.01	68.8	0.05	0.58	0.57
PYAG-12-25	609246	7115351	1062	6.86	7.62	0.76	Grey	Silt + clay	No		Grey clay, cobbles of ls, low recovery	L828401	<0.01	44.9	0.05	0.53	0.55
PYAG-12-25	609246	7115351	1062	7.62	8.08	0.46	Grey	Silt + clay	No		Bedrock, very wet as well. Arg with ca	L828402	<0.01	13	0.02	0.61	0.74
PYAG-12-26	609283	7115366	1065	0.00	0.66	0.66	Brown	Silt + clay	Yes		Brown till with oxi	L828403	<0.01	13.7	0.08	0.74	0.53
PYAG-12-26	609283	7115366	1065	0.66	1.42	0.76	Brown	Silt + clay	Yes		Brown till with oxi	L828404	<0.01	15.4	0.07	0.79	0.71
PYAG-12-26	609283	7115366	1065	1.42	2.18	0.76	Brown	Silt + clay	Semi		Brown till with oxi	L828405	<0.01	14.1	0.08	0.8	0.66
PYAG-12-26	609283	7115366	1065	2.18	2.95	0.76	Brown/grey	Silt + clay	No		Grey clay	L828406	<0.01	11.1	0.07	0.66	0.67
PYAG-12-26	609283	7115366	1065	2.95	3.71	0.76	Brown/grey	Silt + clay	No		Increased amount of grey clay	L828407	<0.01	12.5	0.06	0.7	0.75
PYAG-12-26	609283	7115366	1065	3.71	4.47	0.76	Grey	Silt + clay	No		Less clay, some oxi	L828408	<0.01	15	0.1	0.84	0.68
PYAG-12-26	609283	7115366	1065	4.47	5.23	0.76	Grey	Silt + clay	No		Less clay, more oxi	L828409	<0.01	13.5	0.09	0.87	0.66
PYAG-12-26	609283	7115366	1065	5.23	5.99	0.76	Grey	Silt	No		Grey clay	L828410	<0.01	13.3	0.05	0.86	0.76
PYAG-12-26	609283	7115366	1065	5.99	6.76	0.76	Grey	Silt	No		Grey clay, crushed arg ?	L828411	<0.01	13.8	0.05	0.87	0.82
PYAG-12-26	609283	7115366	1065	6.76	7.52	0.76	Grey	Silt	No		Crushed arg with ca	L828412	<0.01	13.3	0.03	0.88	0.96
PYAG-12-26	609283	7115366	1065	7.52	8.28	0.76	Grey	Silt	No		Crushed arg with ca	L828413	<0.01	12.4	0.03	0.93	0.93
PYAG-12-27	609333	7115363	1061	0.00	0.51	0.51	Brown	Silt + clay	Yes		Brown till with oxi	L828414	<0.01	17.3	0.07	0.84	0.54
PYAG-12-27	609333	7115363	1061	0.51	1.27	0.76	Brown	Silt + clay	Yes		Brown till with oxi	L828415	<0.01	12.1	0.08	0.74	0.74
PYAG-12-27	609333	7115363	1061	1.27	2.03	0.76	Brown/grey	Silt + clay	Semi		Brown till with oxi, plus grey clay	L828416	<0.01	11.9	0.08	0.75	0.89
PYAG-12-27	609333	7115363	1061	2.03	2.79	0.76	Brown/grey	Silt + clay	No		Brown till with oxi, plus grey clay	L828417	<0.01	15.4	0.09	0.91	0.81
PYAG-12-27	609333	7115363	1061	2.79	3.56	0.76	Grey	Silt + clay	No		Grey clay, chips of arg with ca	L828418	<0.01	14	0.07	0.77	0.82
PYAG-12-27	609333	7115363	1061	3.56	4.32	0.76	Grey	Silt + clay	No		Grey clay, chips of arg with ca	L828419	<0.01	11.6	0.03	0.63	0.69
PYAG-12-27	609333	7115363	1061	4.32	5.08	0.76	Grey	Silt + clay	No		Grey clay, chips of arg with ca	L828420	<0.01	10.8	0.03	0.65	0.65
PYAG-12-27	609333	7115363	1061	5.08	5.84	0.76	Grey	Silt	No		Grey clay, chips of arg with ca. Likely bedrock	L828421	<0.01	8.5	0.02	0.51	0.91
PYAG-12-27	609333	7115363	1061	5.84	6.60	0.76	Grey	Silt	No		Grey clay, chips of arg with ca. Likely bedrock	L828422	<0.01	9.5	0.02	0.57	0.83
PYAG-12-27	609333	7115363	1061	6.60	7.37	0.76	Grey	Silt	No		Crushed arg with ca	L828423	<0.01	14.5	0.02	0.81	0.84
PYAG-12-27	609333	7115363	1061	7.37	8.13	0.76	Grey	Silt	No		Crushed arg with ca	L828424	<0.01	12.9	0.02	0.78	0.78
PYAG-12-28	609373	7115355	1061	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till, fairly clay rich	L828425	0.01	15.9	0.04	0.92	1.03
PYAG-12-28	609373	7115355	1061	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till, fairly clay rich	L828426	<0.01	18.7	0.04	1.03	1.02
PYAG-12-28	609373	7115355	1061	1.52	2.29	0.76	Brown/grey	Silt + clay	Semi		Mostly grey clay	L828427	<0.01	16.4	0.04	1.04	1.03
PYAG-12-28	609373	7115355	1061	2.29	3.05	0.76	Grey	Silt + clay	No		Mostly grey clay	L828428	<0.01	14.9	0.04	0.82	1
PYAG-12-28	609373	7115355	1061	3.05	3.81	0.76	Grey	Silt + clay	No		Mostly grey clay, crushed bedrock?	L828429	<0.01	11.6	0.04	0.67	0.86
PYAG-12-28	609373	7115355	1061	3.81	4.57	0.76	Grey	Silt + clay	No		Mostly grey clay, crushed bedrock?	L828430	<0.01	13.9	0.05	0.73	1.05

PYAG-12-28	609373	7115355	1061	4.57	5.33	0.76	Grey	Silt + clay	No		Crushed arg	L828431	<0.01	15.7	0.04	0.79	1.03
PYAG-12-28	609373	7115355	1061	5.33	6.10	0.76	Grey	Silt	No		Crushed arg	L828432	<0.01	13.7	0.03	0.7	1
PYAG-12-29	609431	7115351	1060	0.00	0.81	0.81	Brown	Silt + clay	Yes		Brown till	L828433	0.01	14	0.05	1.06	0.61
PYAG-12-29	609431	7115351	1060	0.81	1.57	0.76	Brown	Silt + clay	Yes		Brown till, some oxi	L828434	<0.01	8.1	0.03	0.65	0.72
PYAG-12-29	609431	7115351	1060	1.57	2.34	0.76	Brown	Silt + clay	Semi		Brown till, some oxi	L828435	<0.01	7.8	0.03	0.65	0.8
PYAG-12-29	609431	7115351	1060	2.34	3.10	0.76	Brown	Silt + clay	No		Brown till, some oxi	L828436	<0.01	7.6	0.02	0.56	0.6
PYAG-12-29	609431	7115351	1060	3.10	3.86	0.76	Brown	Silt + clay	No		Brown till, some oxi	L828437	<0.01	7.2	0.02	0.57	0.63
PYAG-12-29	609431	7115351	1060	3.86	4.62	0.76	Grey	Silt + clay	No		Grey material, some oxi	L828438	0.01	8.7	0.02	0.67	0.73
PYAG-12-29	609431	7115351	1060	4.62	5.38	0.76	Grey	Silt + clay	No		Grey material, minor oxi	L828439	<0.01	9.6	0.03	0.72	0.78
PYAG-12-29	609431	7115351	1060	5.38	6.15	0.76	Grey	Silt	No		Crushed arg	L828440	<0.01	9.5	0.03	0.74	0.73
PYAG-12-29	609431	7115351	1060	6.15	6.86	0.71	Grey	Silt	No		Crushed arg	L828441	<0.01	9.6	0.03	0.77	0.73
PYAG-12-30	609528	7115356	1058	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till, some oxi	L828442	<0.01	14.2	0.08	0.95	0.75
PYAG-12-30	609528	7115356	1058	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till, some oxi	L828443	<0.01	12.4	0.03	1.04	0.88
PYAG-12-30	609528	7115356	1058	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till, some oxi	L828444	<0.01	11.4	0.03	0.83	0.92
PYAG-12-30	609528	7115356	1058	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till, some oxi	L828445	<0.01	12.1	0.05	0.81	1.05
PYAG-12-30	609528	7115356	1058	3.05	3.81	0.76	Brown	Silt + clay	No		Brown till, less oxi	L828446	<0.01	13.9	0.02	0.82	0.8
PYAG-12-30	609528	7115356	1058	3.81	4.57	0.76	Brown	Silt + clay	No		Brown till, less oxi	L828447	<0.01	13	0.02	0.72	0.99
PYAG-12-30	609528	7115356	1058	4.57	5.33	0.76	Grey	Silt + clay	No		Crushed grey material, arg	L828448	<0.01	8.5	0.02	0.55	0.65
PYAG-12-30	609528	7115356	1058	5.33	6.10	0.76	Grey	Silt	No		Crushed arg	L828449	<0.01	9.6	0.02	0.61	0.7
PYAG-12-31	609034	7115450	1072	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828450	<0.01	140.5	0.26	0.89	0.66
											Brown till, increased amount of clay						
PYAG-12-31	609034	7115450	1072	0.76	1.52	0.76	Brown	Silt + clay	Yes			L828451	<0.01	87.6	1.63	0.76	0.57
PYAG-12-31	609034	7115450	1072	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till, some dark grey clay	L828452	<0.01	39.5	0.1	0.69	1.08
PYAG-12-31	609034	7115450	1072	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till, some dark grey clay	L828453	<0.01	31.8	0.07	0.77	1.31
PYAG-12-31	609034	7115450	1072	3.05	3.81	0.76	Brown	Silt + clay	No		Grey material, not as much clay	L828454	<0.01	28.1	0.04	0.6	0.99
PYAG-12-31	609034	7115450	1072	3.81	4.57	0.76	Brown	Silt + clay	No		Grey material, not as much clay	L828455	<0.01	32	0.05	0.7	1.05
PYAG-12-31	609034	7115450	1072	4.57	5.33	0.76	Grey	Silt + clay	No		Grey material (crushed bedrock?) with ca xtals	L828456	<0.01	46.4	0.08	1.03	1.21
PYAG-12-31	609034	7115450	1072	5.33	6.10	0.76	Grey	Silt + clay	No		Grey material (crushed bedrock?) with ca xtals	L828457	<0.01	53.8	0.09	1.17	1.49
PYAG-12-31	609034	7115450	1072	6.10	6.86	0.76	Grey	Silt + clay	No		Bedrock (crushed arg) less ca	L828458	<0.01	61.5	0.12	1.37	2.14
PYAG-12-31	609034	7115450	1072	6.86	7.62	0.76	Grey	Silt + clay	No		Bedrock (crushed arg) less ca	L828459	<0.01	62.9	0.12	1.48	2.21
PYAG-12-32	609133	7115437	1063	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828460	<0.01	2630	0.14	3.49	9.43
PYAG-12-32	609133	7115437	1063	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	L828461	<0.01	2590	0.1	3.57	5.93
PYAG-12-32	609133	7115437	1063	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till (wet)	L828462	<0.01	530	0.04	1.01	2.48
PYAG-12-32	609133	7115437	1063	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till (wet)	L828463	<0.01	222	0.02	0.65	1.93
PYAG-12-32	609133	7115437	1063	3.05	3.81	0.76	Grey	Silt + clay	No		light grey material (some oxi)	L828464	<0.01	260	0.01	0.6	1.74
PYAG-12-32	609133	7115437	1063	3.81	4.57	0.76	Grey	Silt + clay	No		light grey material (some oxi)	L828465	<0.01	110.5	0.01	0.49	1.25
PYAG-12-32	609133	7115437	1063	4.57	5.33	0.76	Grey	Silt + clay	No		light grey material (less oxi)	L828466	<0.01	141.5	0.02	0.49	1.17
PYAG-12-32	609133	7115437	1063	5.33	6.10	0.76	Grey	Silt + clay	No		light grey material (less oxi)	L828467	<0.01	138	0.01	0.54	1.39



PYAG-12-32	609133	7115437	1063	6.10	6.86	0.76	Grey	Silt + clay	No		No oxi, crushed arg	L828468	<0.01	13.6	<0.01	0.36	0.79
PYAG-12-32	609133	7115437	1063	6.86	7.62	0.76	Grey	Silt + clay	No		No oxi, crushed arg	L828469	<0.01	25.5	<0.01	0.41	0.68
PYAG-12-33	609178	7115441	1060	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828470	<0.01	1450	0.24	1.44	17.6
PYAG-12-33	609178	7115441	1060	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	L828471	<0.01	1355	0.21	1.4	15.35
PYAG-12-33	609178	7115441	1060	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till	L828472	<0.01	763	0.06	0.79	3.11
PYAG-12-33	609178	7115441	1060	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Brown till	L828473	<0.01	668	0.05	0.79	3.55
PYAG-12-33	609178	7115441	1060	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till	L828474	<0.01	448	0.03	0.69	2.68
PYAG-12-33	609178	7115441	1060	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Till	L828475	<0.01	239	<0.01	0.62	1.18
PYAG-12-33	609178	7115441	1060	4.57	5.33	0.76	Brown/grey	Silt + clay	No		More clay rich, wet	L828476	<0.01	287	0.01	0.7	1.43
PYAG-12-33	609178	7115441	1060	5.33	6.10	0.76	Brown/grey	Silt + clay	No		More clay rich, wet	L828477	<0.01	314	0.02	0.7	1.54
PYAG-12-33	609178	7115441	1060	6.10	6.86	0.76	Brown/grey	Silt + clay	No		Grey clay (crushed arg)	L828478	<0.01	36.6	<0.01	0.65	0.84
PYAG-12-33	609178	7115441	1060	6.86	7.62	0.76	Grey	Silt + clay	No		Grey clay (crushed arg)	L828479	<0.01	143.5	0.02	0.62	1.58
											Crushed bedrock, grey and maroon arg						
PYAG-12-33	609178	7115441	1060	7.62	8.38	0.76	Grey/maroon	Silt + clay	No		Crushed bedrock, grey and maroon arg	L828480	<0.01	65.6	0.01	0.61	1.13
PYAG-12-33	609178	7115441	1060	8.38	9.14	0.76	Grey/maroon	Silt + clay	No		Crushed bedrock, grey and maroon arg	L828481	<0.01	79.1	0.01	0.62	1.32
PYAG-12-34	609233	7115443	1054	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till	L828482	<0.01	1245	0.02	2.12	1.1
PYAG-12-34	609233	7115443	1054	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	L828483	<0.01	1295	0.02	2.31	1.17
PYAG-12-34	609233	7115443	1054	1.52	2.29	0.76	Brown	Silt + clay	Semi		Brown till	L828484	<0.01	1005	<0.01	2.8	1.16
PYAG-12-34	609233	7115443	1054	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till	L828485	<0.01	772	0.02	2.82	0.99
PYAG-12-34	609233	7115443	1054	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till	L828486	<0.01	44	0.01	0.72	0.75
PYAG-12-34	609233	7115443	1054	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Till	L828487	<0.01	109	0.01	0.86	0.81
PYAG-12-34	609233	7115443	1054	4.57	5.33	0.76	Grey	Silt + clay	No		Clay rich	L828488	<0.01	41.4	<0.01	0.51	0.75
PYAG-12-34	609233	7115443	1054	5.33	6.10	0.76	Grey	Silt + clay	No		clay rich	L828489	<0.01	29.7	<0.01	0.55	0.7
PYAG-12-34	609233	7115443	1054	6.10	6.86	0.76	Grey	Silt + clay	No		Crushed arg, possible bedrock	L828490	<0.01	50.3	<0.01	0.59	0.77
PYAG-12-34	609233	7115443	1054	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	L828491	<0.01	47.8	<0.01	0.51	0.75
PYAG-12-34	609233	7115443	1054	7.62	8.38	0.76	Grey	Silt + clay	No		Crushed arg	L828492	<0.01	30.4	<0.01	0.51	0.76
PYAG-12-34	609233	7115443	1054	8.38	9.14	0.76	Grey	Silt + clay	No		Crushed arg	L828493	<0.01	42.8	<0.01	0.48	0.71
PYAG-12-35	609284	7115442	1052	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	L828494	<0.01	15.9	0.08	0.69	0.53
PYAG-12-35	609284	7115442	1052	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till (wet)	L828495	<0.01	15	0.08	0.68	0.55
PYAG-12-35	609284	7115442	1052	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till	L828496	<0.01	86.9	0.07	0.76	0.72
PYAG-12-35	609284	7115442	1052	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till - grey clay	L828497	<0.01	22.4	0.06	0.71	0.77
PYAG-12-35	609284	7115442	1052	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Grey clay	L828498	<0.01	19.7	0.04	0.56	0.6
PYAG-12-35	609284	7115442	1052	3.81	4.57	0.76	Grey	Silt + clay	No		Grey clay	L828499	<0.01	20.3	0.04	0.62	0.68
PYAG-12-35	609284	7115442	1052	4.57	5.33	0.76	Grey	Silt + clay	No		Grey clay	L828500	<0.01	28.6	0.02	0.41	0.71
PYAG-12-35	609284	7115442	1052	5.33	6.10	0.76	Grey	Silt + clay	No		Grey clay	J999800	<0.01	28.4	0.02	0.43	0.73
PYAG-12-35	609284	7115442	1052	6.10	6.86	0.76	Grey	Silt + clay	No		Crushed arg	J999801	<0.01	27	0.02	0.5	0.81
PYAG-12-35	609284	7115442	1052	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	J999802	<0.01	25.5	0.02	0.49	0.66
PYAG-12-36	609331	7115442	1058	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till	J999803	<0.01	6.1	0.01	0.28	0.61
PYAG-12-36	609331	7115442	1058	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till	J999804	<0.01	5.2	0.01	0.27	0.64
PYAG-12-36	609331	7115442	1058	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till	J999805	<0.01	4.9	0.01	0.27	0.6
PYAG-12-36	609331	7115442	1058	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till	J999806	<0.01	4.7	0.01	0.29	0.64

PYAG-12-36	609331	7115442	1058	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Till	J999807	<0.01	3.9	0.01	0.34	0.65
PYAG-12-36	609331	7115442	1058	3.81	4.57	0.76	Grey	Silt + clay	No		Till	J999808	<0.01	4.1	0.01	0.3	0.65
PYAG-12-36	609331	7115442	1058	4.57	5.33	0.76	Grey	Silt + clay	No		Till	J999809	<0.01	4.6	0.01	0.3	0.64
PYAG-12-36	609331	7115442	1058	5.33	6.10	0.76	Grey	Silt + clay	No		Till	J999810	<0.01	5.8	0.01	0.29	0.65
PYAG-12-36	609331	7115442	1058	6.10	6.86	0.76	Grey	Silt + clay	No		Till	J999811	<0.01	5.9	0.01	0.3	0.64
PYAG-12-36	609331	7115442	1058	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	J999812	<0.01	5.1	<0.01	0.31	0.68
PYAG-12-36	609331	7115442	1058	7.62	8.38	0.76	Grey	Silt + clay	No		Crushed arg	J999813	<0.01	4.8	<0.01	0.31	0.66
PYAG-12-36	609331	7115442	1058	8.38	9.14	0.76	Grey	Silt + clay	No		Crushed arg	J999814	<0.01	6.9	0.01	0.46	0.7
PYAG-12-37	609144	7115514	1059	0.00	0.76	0.76	Brown/mar	Silt + clay	Yes		Maroon material, chips of arg	J999815	<0.01	439	0.1	1.41	1.06
PYAG-12-37	609144	7115514	1059	0.76	1.52	0.76	Mar	Silt + clay	Yes		Maroon material, chips of arg	J999816	<0.01	407	0.02	1.72	0.93
PYAG-12-37	609144	7115514	1059	1.52	2.29	0.76	Brown/mar	Silt + clay	Semi		Maroon material, chips of arg	J999817	<0.01	476	0.01	1.3	0.9
PYAG-12-37	609144	7115514	1059	2.29	3.05	0.76	Maroon	Silt + clay	No		Maroon material, chips of arg	J999818	<0.01	402	0.01	1.2	0.9
PYAG-12-37	609144	7115514	1059	3.05	3.81	0.76	Grey/mar	Silt + clay	No		Grey/green material in maroon arg	J999819	<0.01	222	0.01	0.95	0.79
PYAG-12-37	609144	7115514	1059	3.81	4.57	0.76	Grey/mar	Silt + clay	No		Grey/green material in maroon arg	J999820	<0.01	237	<0.01	0.99	0.82
PYAG-12-37	609144	7115514	1059	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon material, chips of arg	J999821	<0.01	126.5	0.02	1.85	0.97
PYAG-12-37	609144	7115514	1059	5.33	6.10	0.76	Grey	Silt + clay	No		Maroon material, chips of arg	J999822	<0.01	141.5	0.01	2.06	0.95
PYAG-12-37	609144	7115514	1059	6.10	6.86	0.76	Mar+grey	Silt + clay	No		Maroon + grey/green material (arg)	J999823	<0.01	19	0.03	2.07	0.97
PYAG-12-37	609144	7115514	1059	6.86	7.62	0.76	Mar+grey	Silt + clay	No		Maroon + grey/green material (arg)	J999824	<0.01	53	0.02	2.21	0.96
PYAG-12-37	609144	7115514	1059	7.62	8.38	0.76	Mar	Silt + clay	No		Crushed maroon arg	J999825	<0.01	38.1	0.01	1.72	0.9
PYAG-12-37	609144	7115514	1059	8.38	9.14	0.76	Mar	Silt + clay	No		Crushed maroon arg	J999826	<0.01	49.6	0.01	1.68	0.88
PYAG-12-38	609188	7115493	1050	0.00	0.76	0.76	Brown/mar	Silt + clay	Yes		Till, oxi	J999827	<0.01	2030	3.79	2.66	26.2
PYAG-12-38	609188	7115493	1050	0.76	1.52	0.76	Mar	Silt + clay	Yes		Till	J999828	<0.01	1675	0.34	1.92	38
PYAG-12-38	609188	7115493	1050	1.52	2.29	0.76	Brown/mar	Silt + clay	Semi		Till	J999829	<0.01	1765	0.26	2.01	26.5
PYAG-12-38	609188	7115493	1050	2.29	3.05	0.76	Maroon	Silt + clay	No		Till, maroon arg	J999830	<0.01	634	0.06	1.37	8.54
PYAG-12-38	609188	7115493	1050	3.05	3.81	0.76	Grey/mar	Silt + clay	No		Till, maroon arg	J999831	<0.01	534	0.07	1.32	4.43
PYAG-12-38	609188	7115493	1050	3.81	4.57	0.76	Grey/mar	Silt + clay	No		Maroon arg clay	J999832	<0.01	242	0.05	1.37	1.86
PYAG-12-38	609188	7115493	1050	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon arg clay	J999833	<0.01	332	0.04	1.23	1.71
PYAG-12-38	609188	7115493	1050	5.33	6.10	0.76	Grey	Silt + clay	No		Maroon arg clay + grey green arg	J999834	<0.01	133.5	0.09	0.92	2.27
PYAG-12-38	609188	7115493	1050	6.10	6.86	0.76	Mar+grey	Silt + clay	No		Maroon arg clay + grey green arg	J999835	<0.01	94.8	0.04	1.05	1.87
PYAG-12-38	609188	7115493	1050	6.86	7.62	0.76	Mar+grey	Silt + clay	No		Crushed arg (bedrock)	J999836	<0.01	66.9	0.02	1.4	1.47
PYAG-12-38	609188	7115493	1050	7.62	8.38	0.76	Mar	Silt + clay	No		Crushed arg (bedrock)	J999837	<0.01	81.5	0.02	1.36	1.6
PYAG-12-39	609264	7115519	1046	0.00	0.61	0.61	Brown/mar	Silt + clay	Yes		Brown till	J999838	<0.01	1120	0.3	1.3	19.7
PYAG-12-39	609264	7115519	1046	0.61	1.37	0.76	Mar	Silt + clay	Yes		Till	J999839	<0.01	412	0.02	0.75	2.32
PYAG-12-39	609264	7115519	1046	1.37	2.13	0.76	Brown/mar	Silt + clay	Semi		Till	J999840	<0.01	460	0.01	0.99	1.87
PYAG-12-39	609264	7115519	1046	2.13	2.90	0.76	Maroon	Silt + clay	No		Increased clay	J999841	<0.01	585	0.02	2.04	1.22
PYAG-12-39	609264	7115519	1046	2.90	3.66	0.76	Grey/mar	Silt + clay	No		Increased clay	J999842	<0.01	395	0.02	1.93	1.15
PYAG-12-39	609264	7115519	1046	3.66	4.42	0.76	Grey/mar	Silt + clay	No		Grey clay	J999843	<0.01	76.7	<0.1	2.27	0.95

PYAG-12-39	609264	7115519	1046	4.42	5.18	0.76	Mar	Silt + clay	No		Grey clay (wet)	J999844	<0.01	95	<0.1	1.76	1.02
PYAG-12-39	609264	7115519	1046	5.18	5.94	0.76	Grey	Silt + clay	No		Grey clay	J999845	<0.01	90.3	0.03	2.66	1.17
PYAG-12-39	609264	7115519	1046	5.94	6.71	0.76	Mar+grey	Silt + clay	No		Grey clay	J999846	<0.01	120	0.03	3.34	1.17
PYAG-12-39	609264	7115519	1046	6.71	7.47	0.76	Mar+grey	Silt + clay	No		Grey clay	J999847	<0.01	32.2	<0.1	1.4	0.97
PYAG-12-39	609264	7115519	1046	7.47	8.23	0.76	Mar	Silt + clay	No		Grey/green material (crushed arg?)	J999848	<0.01	21.7	0.01	0.92	0.99
PYAG-12-39	609264	7115519	1046	8.23	8.99	0.76	Mar	Silt + clay	No		Crushed arg	J999849	<0.01	13.2	0.01	0.98	0.95
PYAG-12-39	609264	7115519	1046	8.99	9.75	0.76	Mar	Silt + clay	No		Crushed arg	J999850	<0.01	20.8	0.01	0.97	0.94
PYAG-12-40	609284	7115516	1046	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till, some oxi on clasts	J999851	<0.01	409	0.5	0.84	1.27
PYAG-12-40	609284	7115516	1046	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till, some oxi on clasts	J999852	<0.01	467	0.31	0.77	1.24
PYAG-12-40	609284	7115516	1046	1.52	2.29	0.76	Brown	Silt + clay	Semi		Till, some oxi on clasts. Wet down the hole	J999853	<0.01	469	0.07	1.08	0.79
PYAG-12-40	609284	7115516	1046	2.29	3.05	0.76	Brown	Silt + clay	No		Till, less oxi	J999854	<0.01	331	0.03	1.55	1
PYAG-12-40	609284	7115516	1046	3.05	3.81	0.76	Mar	Silt + clay	No		Maroon clay	J999855	<0.01	38.4	<0.1	1.1	1.09
PYAG-12-40	609284	7115516	1046	3.81	4.57	0.76	Mar	Silt + clay	No		Maroon clay	J999856	<0.01	80.4	<0.1	1.04	1.06
PYAG-12-40	609284	7115516	1046	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon clay plus minor grey/green clay	J999857	<0.01	41.5	0.01	0.98	0.99
PYAG-12-40	609284	7115516	1046	5.33	6.10	0.76	Mar	Silt + clay	No		maroon clay	J999858	<0.01	41.4	<0.1	0.91	0.99
PYAG-12-40	609284	7115516	1046	6.10	6.86	0.76	Grey/green	Silt + clay	No		Grey/green maroon clay, crushed arg?	J999859	<0.01	30.3	<0.1	1.45	0.92
PYAG-12-40	609284	7115516	1046	6.86	7.62	0.76	Grey/green	Silt + clay	No		Grey/green maroon clay, crushed arg	J999860	<0.01	42.1	0.1	2.39	0.96
PYAG-12-40	609284	7115516	1046	7.62	8.38	0.76	Grey/green	Silt + clay	No		Grey/green maroon clay, crushed arg	J999861	<0.01	39.2	0.02	0.7	0.99
PYAG-12-40	609284	7115516	1046	8.38	9.14	0.76	Grey/green	Silt + clay	No		Grey/green maroon clay, crushed arg	J999862	<0.01	22.7	0.01	0.46	1.1
PYAG-12-41	609334	7115515	1039	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	J999863	<0.01	7	0.03	0.41	0.62
PYAG-12-41	609334	7115515	1039	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	J999864	<0.01	9.3	0.04	0.46	0.74
PYAG-12-41	609334	7115515	1039	1.68	2.44	0.76	Brown	Silt + clay	No		Till - wet	J999865	<0.01	9.3	0.05	0.56	0.7
PYAG-12-41	609334	7115515	1039	2.44	3.20	0.76	Brown	Silt + clay	No		Till	J999866	<0.01	9.9	<0.1	0.43	0.8
PYAG-12-41	609334	7115515	1039	3.20	3.96	0.76	Brown/grey	Silt + clay	No		Till, more clay rich	J999867	<0.01	9.7	<0.1	0.39	0.88
PYAG-12-42	609335	7115523	1040	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	J999868	<0.01	9	<0.1	0.46	0.66
PYAG-12-42	609335	7115523	1040	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	J999869	<0.01	11.8	0.06	0.51	0.62
PYAG-12-42	609335	7115523	1040	1.68	2.44	0.76	Brown	Silt + clay	No		Till	J999870	<0.01	10.3	<0.1	0.53	0.69
PYAG-12-42	609335	7115523	1040	2.44	3.20	0.76	Brown	Silt + clay	No		Till - wet	J999871	<0.01	11.8	<0.1	0.67	0.97
PYAG-12-42	609335	7115523	1040	3.20	3.96	0.76	Brown/grey	Silt + clay	No		Till - clay rich	J999872	<0.01	10.9	0.07	0.74	1
PYAG-12-42	609335	7115523	1040	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Crushed up grey arg with ca crystals	J999873	<0.01	10.2	0.05	0.88	0.97
PYAG-12-42	609335	7115523	1040	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Crushed up grey arg with ca crystals	J999874	<0.01	7.3	0.04	0.6	0.92
PYAG-12-42	609335	7115523	1040	5.49	6.25	0.76	Brown/grey	Silt + clay	No		Crushed up grey arg with ca crystals, bedrock?	J999875	<0.01	7.5	0.04	0.56	0.9

PYAG-12-42	609335	7115523	1040	6.25	7.01	0.76	Brown/grey	Silt + clay	No		Crushed up grey arg with ca crystals. Bedrock	J999876	<0.01	8.1	0.05	0.56	0.86
PYAG-12-42	609335	7115523	1040	7.01	7.77	0.76	Brown/grey	Silt + clay	No		Crushed grey arg. Bedrock	J999877	<0.01	9.7	0.05	0.68	0.8
PYAG-12-42	609335	7115523	1040	7.77	8.53	0.76	Brown/grey	Silt + clay	No		Crushed grey arg. Bedrock	J999878	<0.01	9.1	0.05	0.71	0.92
PYAG-12-43	609073	7115637	1046	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till, oxi	J999879	<0.01	52.4	0.16	0.87	0.9
PYAG-12-43	609073	7115637	1046	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till, oxi	J999880	<0.01	27.9	0.14	0.75	0.73
PYAG-12-43	609073	7115637	1046	1.52	2.29	0.76	Brown/grey	Silt + clay	No		Till, grey clay oxi	J999881	<0.01	26.6	0.18	0.89	0.72
PYAG-12-43	609073	7115637	1046	2.29	3.05	0.76	Brown/grey	Silt + clay	No		Till, grey clay oxi	J999882	<0.01	27.6	0.2	0.88	0.69
PYAG-12-43	609073	7115637	1046	3.05	3.81	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999883	<0.01	25.4	0.16	0.92	0.63
PYAG-12-43	609073	7115637	1046	3.81	4.57	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999884	<0.01	19.7	0.1	0.88	0.59
PYAG-12-43	609073	7115637	1046	4.57	5.33	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999885	<0.01	54.6	0.25	0.87	0.84
PYAG-12-43	609073	7115637	1046	5.33	6.10	0.76	Grey	Silt + clay	No		Till, grey clay oxi	J999886	<0.01	62.4	0.38	1.05	1.11
PYAG-12-43	609073	7115637	1046	6.10	6.86	0.76	Grey	clay	No		Mostly all grey clay, some till cobbles	J999887	<0.01	47.4	0.32	1.11	1.05
PYAG-12-43	609073	7115637	1046	6.86	7.62	0.76	Grey	clay	No		Mostly all grey clay, some till cobbles	J999888	<0.01	53.1	0.38	1.05	0.99
PYAG-12-43	609073	7115637	1046	7.62	8.38	0.76	Grey	clay	No		Mostly all grey clay, some till cobbles	J999889	<0.01	54	0.29	1.02	0.95
PYAG-12-43	609073	7115637	1046	8.38	9.14	0.76	Grey	Silt + clay	No		Slightly less clay rich	J999890	<0.01	56.8	0.23	1.04	0.96
PYAG-12-43	609073	7115637	1046	9.14	9.91	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999891	<0.01	58.2	0.19	0.86	0.91
PYAG-12-43	609073	7115637	1046	9.91	10.67	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999892	<0.01	51.7	0.17	0.7	0.83
PYAG-12-43	609073	7115637	1046	10.67	11.43	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999893	<0.01	44.8	0.18	0.77	0.82
PYAG-12-43	609073	7115637	1046	11.43	12.19	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999894	<0.01	49.3	0.81	0.76	0.75
PYAG-12-43	609073	7115637	1046	12.19	12.95	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999895	<0.01	42.7	0.15	0.68	0.73
PYAG-12-43	609073	7115637	1046	12.95	13.72	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999896	<0.01	43.4	0.17	0.69	0.78
PYAG-12-43	609073	7115637	1046	13.72	14.48	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999897	<0.01	35.7	0.94	0.7	0.59
PYAG-12-43	609073	7115637	1046	14.48	15.24	0.76	Grey/brown	Silt + clay	No		Grey clay + brown till	J999898	<0.01	35.2	0.15	0.61	0.55
PYAG-12-44	609135	7115595	1042	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till	J999899	<0.01	77.4	0.16	0.86	0.82
PYAG-12-44	609135	7115595	1042	0.91	1.68	0.76	Brown	Silt + clay	Yes		Brown till. Possible orp, but likely just oxi	J999900	<0.01	209	0.09	0.86	0.63
PYAG-12-44	609135	7115595	1042	1.68	2.44	0.76	Brown	Silt + clay	No		Brown till. Possible orp, but likely just oxi	J999901	<0.01	104.5	0.11	0.78	0.68
PYAG-12-44	609135	7115595	1042	2.44	3.20	0.76	Brown	Silt + clay	No		Brown till. Possible orp, but likely just oxi	J999902	<0.01	41.7	0.14	0.8	0.68
PYAG-12-44	609135	7115595	1042	3.20	3.96	0.76	Brown	Silt + clay	No		Brown till	J999903	<0.01	52.1	0.14	0.9	0.8
PYAG-12-44	609135	7115595	1042	3.96	4.72	0.76	Brown	Silt + clay	No		Brown till	J999904	<0.01	41	0.28	0.94	0.8
PYAG-12-44	609135	7115595	1042	4.72	5.49	0.76	Brown	Silt + clay	No		Brown till	J999905	<0.01	42	0.4	0.89	0.79
PYAG-12-44	609135	7115595	1042	5.49	6.25	0.76	brown/grey	Silt + clay	No		Till, clay rich	J999906	<0.01	125	2.37	0.76	0.85
PYAG-12-44	609135	7115595	1042	6.25	7.01	0.76	brown/grey	clay	No		Till, clay rich	J999907	<0.01	155	0.81	0.76	0.82
PYAG-12-44	609135	7115595	1042	7.01	7.77	0.76	Grey	clay	No		Mostly grey clay, some till	J999908	<0.01	58.1	0.45	1.06	0.85
PYAG-12-44	609135	7115595	1042	7.77	8.53	0.76	Grey	clay	No		Mostly grey clay, some till	J999909	<0.01	47.8	0.57	0.96	0.76
PYAG-12-44	609135	7115595	1042	8.53	9.30	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999910	<0.01	53.6	0.37	1.14	0.85

PYAG-12-44	609135	7115595	1042	9.30	10.06	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999911	<0.01	44.2	0.34	1.2	0.89
PYAG-12-44	609135	7115595	1042	10.06	10.82	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999912	<0.01	43	0.33	1.3	0.88
PYAG-12-44	609135	7115595	1042	10.82	11.58	0.76	Grey	Silt + clay	No		Thick grey clay, very dense. Wet	J999913	0.02	42.5	0.25	1.12	0.97
PYAG-12-45	609199	7115582	1045	0.00	0.76	0.76	Brown	Silt + clay	Yes		Brown till, organic	J999914	0.01	983	0.41	1.31	17.85
PYAG-12-45	609199	7115582	1045	0.76	1.52	0.76	Brown	Silt + clay	Yes		Brown till	J999915	<0.01	941	0.26	1.26	13.9
PYAG-12-45	609199	7115582	1045	1.52	2.29	0.76	Brown	Silt + clay	No		Brown till	J999916	<0.01	1180	0.15	1.25	4.07
PYAG-12-45	609199	7115582	1045	2.29	3.05	0.76	Brown	Silt + clay	No		Brown till	J999917	<0.01	1260	0.09	1.15	2.17
PYAG-12-45	609199	7115582	1045	3.05	3.81	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999918	<0.01	462	0.12	0.72	1.71
PYAG-12-45	609199	7115582	1045	3.81	4.57	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999919	<0.01	115	0.06	0.5	1.25
PYAG-12-45	609199	7115582	1045	4.57	5.33	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999920	<0.01	105	0.06	0.44	1.17
PYAG-12-45	609199	7115582	1045	5.33	6.10	0.76	Brown/grey	Silt + clay	No		Brown till, grey clay	J999921	<0.01	139	0.06	0.44	1.29
PYAG-12-45	609199	7115582	1045	6.10	6.86	0.76	Grey	Silt + clay	No		Grey	J999922	<0.01	51.9	0.06	0.33	1.08
PYAG-12-45	609199	7115582	1045	6.86	7.62	0.76	Grey	Silt + clay	No		Grey	J999923	0.01	48.9	0.05	0.35	1.03
PYAG-12-45	609199	7115582	1045	7.62	8.38	0.76	Grey	Silt + clay	No		Grey	J999924	<0.01	285	0.06	0.56	2.26
PYAG-12-45	609199	7115582	1045	8.38	9.14	0.76	Grey	Silt + clay	No		Grey	J999925	<0.01	224	0.1	0.49	2.16
PYAG-12-46	609253	7115587	1035	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till, oxi	J999926	<0.01	1610	1.77	2.43	20.4
PYAG-12-46	609253	7115587	1035	0.91	1.68	0.76	Brown	Silt + clay	Yes		Brown till, oxi	J999927	<0.01	1930	0.75	1.97	27.2
PYAG-12-46	609253	7115587	1035	1.68	2.44	0.76	Brown	Silt + clay	No		Brown till, oxi	J999928	<0.01	2470	0.56	2.06	37.9
PYAG-12-46	609253	7115587	1035	2.44	3.20	0.76	Brown	Silt + clay	No		Less cobbles, fairly uniform brown material	J999929	<0.01	1510	0.11	1.27	8.9
PYAG-12-46	609253	7115587	1035	3.20	3.96	0.76	Brown	Silt + clay	No		Less cobbles, fairly uniform brown material	J999930	<0.01	1385	0.12	1.14	6.35
PYAG-12-46	609253	7115587	1035	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Brown, grey clay	J999931	0.01	1245	0.13	1.07	7.12
PYAG-12-46	609253	7115587	1035	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Brown, grey clay	J999932	<0.01	970	0.07	0.9	2.16
PYAG-12-46	609253	7115587	1035	5.49	6.25	0.76	Grey	Silt + clay	No		Grey clay	J999933	<0.01	267	0.16	1.36	2.05
PYAG-12-46	609253	7115587	1035	6.25	7.01	0.76	Grey	Silt + clay	No		Grey clay	J999934	<0.01	330	0.25	2.08	2.71
PYAG-12-46	609253	7115587	1035	7.01	7.77	0.76	Grey	Silt + clay	No		Dark grey clay, crushed arg	J999935	<0.01	236	0.23	2.61	2.04
PYAG-12-46	609253	7115587	1035	7.77	8.53	0.76	Grey	Silt + clay	No		Dark grey clay, crushed arg	J999936	<0.01	164	0.2	2.38	1.77
PYAG-12-46	609253	7115587	1035	8.53	9.14	0.61	Grey	Silt + clay	No		Dark grey clay, crushed arg	J999937	<0.01	46	0.05	0.98	0.96
PYAG-12-47	609297	7115581	1040	0.00	0.76	0.76	Brown	Silt + clay	Yes		Till, lots of oxi	J999938	<0.01	848	0.69	1.02	2.19
PYAG-12-47	609297	7115581	1040	0.76	1.52	0.76	Brown	Silt + clay	Yes		Till, lots of oxi	J999939	<0.01	697	0.77	0.98	4.5
PYAG-12-47	609297	7115581	1040	1.52	2.29	0.76	Brown	Silt + clay	No		Till, lots of oxi	J999940	<0.01	811	0.25	0.8	2.56
PYAG-12-47	609297	7115581	1040	2.29	3.05	0.76	Brown	Silt + clay	No		Till, lots of oxi	J999941	<0.01	898	0.14	1.01	1.82
PYAG-12-47	609297	7115581	1040	3.05	3.81	0.76	Brown	Silt + clay	No		Brown, fairly uniform material. Suspect orp, likely oxi	J999942	<0.01	533	0.26	1.84	1.15
PYAG-12-47	609297	7115581	1040	3.81	4.57	0.76	Brown	Silt + clay	No		Brown, fairly uniform material	J999943	<0.01	541	0.22	1.68	1.23
PYAG-12-47	609297	7115581	1040	4.57	5.33	0.76	Brown/grey	Silt + clay	No		Brow, uniform material. Wet	J999944	<0.01	622	0.35	2.27	1.32
PYAG-12-47	609297	7115581	1040	5.33	6.10	0.76	Grey	Silt + clay	No		Brown and grey clay	J999945	0.02	520	0.23	1.99	1.36
PYAG-12-47	609297	7115581	1040	6.10	6.86	0.76	Grey	Silt + clay	No		Grey clay (crushed arg?)	J999946	<0.01	219	0.08	0.74	0.99
PYAG-12-47	609297	7115581	1040	6.86	7.62	0.76	Grey	Silt + clay	No		Crushed arg	J999947	<0.01	162.5	0.05	0.85	1.06

PYAG-12-47	609297	7115581	1040	7.62	8.23	0.61	Grey	Silt + clay	No		Crushed arg	J999948	<0.01	86.2	0.04	0.58	0.99
PYAG-12-48	609338	7115575	1042	0.00	0.61	0.61	Brown	Silt + clay	Yes		Till, wet	K976401	<0.01	288	1.33	0.83	1.42
PYAG-12-48	609338	7115575	1042	0.61	1.37	0.76	Brown	Silt + clay	Yes		Till, wet	K976402	<0.01	416	1.25	0.81	1.41
PYAG-12-48	609338	7115575	1042	1.37	2.13	0.76	Brown/mar	Silt + clay	No		Till plus maroon clay	K976403	<0.01	164.5	0.14	1.03	1.18
PYAG-12-48	609338	7115575	1042	2.13	2.90	0.76	Mar	Silt + clay	No		Maroon clay	K976404	<0.01	109	0.07	1.18	1.36
PYAG-12-48	609338	7115575	1042	2.90	3.66	0.76	Mar	Silt + clay	No		Maroon clay	K976405	<0.01	18.3	<0.01	1.15	0.98
PYAG-12-48	609338	7115575	1042	3.66	4.42	0.76	Mar	Silt + clay	No		Crushed maroon arg, bedrock	K976406	<0.01	15.6	0.03	0.99	0.95
PYAG-12-48	609338	7115575	1042	4.42	5.18	0.76	Mar	Silt + clay	No		Crushed maroon arg, bedrock	K976407	<0.01	25.9	0.03	1.01	0.92
PYAG-12-49	609381	7115587	1040	0.00	0.76	0.76	Brown/grey	Silt + clay	Yes		Brown/grey till	K976408	<0.01	474	0.49	1.01	2.05
PYAG-12-49	609381	7115587	1040	0.76	1.52	0.76	Brown	Silt + clay	Yes		brown grey till plus oxi	K976409	<0.01	289	1.08	0.98	2.28
PYAG-12-49	609381	7115587	1040	1.52	2.29	0.76	Mar	Silt + clay	No		Maroon arg	K976410	<0.01	48.4	0.07	1.28	0.95
PYAG-12-49	609381	7115587	1040	2.29	3.05	0.76	Mar	Silt + clay	No		Maroon arg	K976411	<0.01	28.3	0.07	1.29	0.92
PYAG-12-49	609381	7115587	1040	3.05	3.81	0.76	Mar	Silt + clay	No		Maroon arg	K976412	<0.01	9.3	0.02	1.31	0.86
PYAG-12-49	609381	7115587	1040	3.81	4.57	0.76	Mar	Silt + clay	No		Maroon arg	K976413	<0.01	11.5	0.03	1.26	0.86
PYAG-12-49	609381	7115587	1040	4.57	5.33	0.76	Mar	Silt + clay	No		Maroon arg - bedrock	K976414	<0.01	9.3	0.03	1.09	0.85
PYAG-12-49	609381	7115587	1040	5.33	6.10	0.76	Mar	Silt + clay	No		Maroon arg - bedrock	K976415	<0.01	8	0.04	1	0.78
PYAG-12-50	609079	7115128	1092	0.00	0.91	0.91	Grey	Silt + clay	Yes		Grey clay + till	K976416	<0.01	14.5	0.09	0.89	0.73
PYAG-12-50	609079	7115128	1092	0.91	1.68	0.76	Grey	Silt + clay	Yes		Grey clay + till	K976417	<0.01	15.9	0.02	0.75	0.93
PYAG-12-50	609079	7115128	1092	1.68	2.44	0.76	Grey	Silt + clay	No		Grey clay + till	K976418	<0.01	15.8	0.02	0.72	1.04
PYAG-12-50	609079	7115128	1092	2.44	3.20	0.76	Grey/brown	Silt + clay	No		Grey material, lots of angular chips of d. grey arg with orange oxi on surface	K976419	<0.01	15.6	0.03	0.65	1.06
PYAG-12-50	609079	7115128	1092	3.20	3.96	0.76	Grey/brown	Silt + clay	No		Grey material, lots of angular chips of d. grey arg with orange oxi on surface	K976420	<0.01	15.4	0.03	0.64	1.09
PYAG-12-50	609079	7115128	1092	3.96	4.72	0.76	Grey/brown	Silt + clay	No		Grey material, lots of angular chips of d. grey arg with orange oxi on surface	K976421	<0.01	15.3	0.03	0.61	0.81
PYAG-12-50	609079	7115128	1092	4.72	5.49	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976422	<0.01	15.5	0.03	0.61	0.9
PYAG-12-50	609079	7115128	1092	5.49	6.25	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976423	<0.01	15.1	0.02	0.67	1.01
PYAG-12-50	609079	7115128	1092	6.25	7.01	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976424	<0.01	15.1	0.02	0.67	0.91
PYAG-12-50	609079	7115128	1092	7.01	7.77	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976425	<0.01	15.4	0.03	0.71	0.95
PYAG-12-50	609079	7115128	1092	7.77	8.53	0.76	Grey/brown	Silt + clay	No		Same as above but not as many chips	K976426	<0.01	15.6	0.03	0.68	1.11
PYAG-12-50	609079	7115128	1092	8.53	9.30	0.76	Grey/brown	Silt + clay	No		Crushed grey arg, bedrock	K976427	<0.01	14.7	0.02	0.74	0.96
PYAG-12-50	609079	7115128	1092	9.30	10.06	0.76	Grey/brown	Silt + clay	No		Crushed grey arg, bedrock	K976428	<0.01	13.9	0.02	0.68	0.96
PYAG-12-51	609100	7115073	1105	0.00	0.76	0.76	Grey/brown	Silt + clay	Yes		Till	K976429	<0.01	24	0.09	0.76	0.49
PYAG-12-51	609100	7115073	1105	0.76	1.52	0.76	Grey/brown	Silt + clay	Yes		Till	K976430	<0.01	19.1	0.06	0.79	0.63

PYAG-12-51	609100	7115073	1105	1.52	2.29	0.76	Grey/brown	Silt + clay	No		Till + grey clay	K976431	<0.01	22.5	0.18	0.84	0.72
PYAG-12-51	609100	7115073	1105	2.29	3.05	0.76	Grey/brown	Silt + clay	No		Till + grey clay	K976432	<0.01	30.1	0.18	0.83	0.79
PYAG-12-51	609100	7115073	1105	3.05	3.66	0.61	Grey/brown	Silt + clay	No		Till + grey clay	K976433	<0.01	12.1	0.04	0.75	0.63
PYAG-12-52	609102	7115068	1105	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	K976434	<0.01	17	0.07	0.81	0.74
PYAG-12-52	609102	7115068	1105	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	K976435	<0.01	27.8	0.15	0.95	0.65
PYAG-12-52	609102	7115068	1105	1.68	2.44	0.76	Brown	Silt + clay	No		Till	K976436	<0.01	19.9	0.06	0.84	0.74
PYAG-12-52	609102	7115068	1105	2.44	3.20	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976437	<0.01	23.6	1.45	0.79	0.74
PYAG-12-52	609102	7115068	1105	3.20	3.96	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976438	<0.01	27.6	0.18	0.85	0.71
PYAG-12-52	609102	7115068	1105	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976439	<0.01	14.3	0.05	0.68	0.72
PYAG-12-52	609102	7115068	1105	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976440	<0.01	14.7	0.04	0.87	0.7
											Mostly grey arg with oxi on surface + brown material						
PYAG-12-52	609102	7115068	1105	5.49	6.25	0.76	Brown/grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material	K976441	<0.01	11.4	0.02	0.74	0.75
											Mostly grey arg with oxi on surface + brown material						
PYAG-12-52	609102	7115068	1105	6.25	7.01	0.76	Brown/grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material	K976442	<0.01	11.3	0.02	0.76	0.72
											Mostly grey arg with oxi on surface + brown material. Increasing amount of chips						
PYAG-12-52	609102	7115068	1105	7.01	7.77	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Increasing amount of chips	K976443	<0.01	16.7	0.03	1.42	0.95
											Mostly grey arg with oxi on surface + brown material. Increasing amount of chips						
PYAG-12-52	609102	7115068	1105	7.77	8.53	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Increasing amount of chips	K976444	0.01	16.3	<0.1	1.26	0.96
											Mostly grey arg with oxi on surface + brown material. Bedrock						
PYAG-12-52	609102	7115068	1105	8.53	9.30	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Bedrock	K976445	0.01	16.1	<0.1	1.08	1.06
											Mostly grey arg with oxi on surface + brown material. Bedrock						
PYAG-12-52	609102	7115068	1105	9.30	10.06	0.76	Grey	Silt + clay	No		Mostly grey arg with oxi on surface + brown material. Bedrock	K976446	<0.01	16.3	<1	1.17	1
PYAG-12-53	609024	7115150	1104	0.00	0.91	0.91	Brown/grey	Silt + clay	Yes		Till + grey clay	K976447	<0.01	14.5	<0.1	0.71	0.96
PYAG-12-53	609024	7115150	1104	0.91	1.68	0.76	Brown/grey	Silt + clay	Yes		Till + grey clay	K976448	<0.01	14.5	0.02	0.69	0.99
PYAG-12-53	609024	7115150	1104	1.68	2.44	0.76	Brown/grey	Silt + clay	No		Till + grey clay	K976449	<0.01	13.9	<1	0.73	1.17
											Grey clay, lots of chips of dark grey arg						
PYAG-12-53	609024	7115150	1104	2.44	3.20	0.76	Brown/grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg	K976450	<0.01	17	<1	0.8	1.74
											Grey clay, lots of chips of dark grey arg. Larger cobbles						
PYAG-12-53	609024	7115150	1104	3.20	3.96	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Larger cobbles	K976451	0.02	19.5	1	0.87	1.99
											Grey clay, lots of chips of dark grey arg. Larger cobbles						
PYAG-12-53	609024	7115150	1104	3.96	4.72	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Larger cobbles	K976452	0.02	12.7	<1	0.7	1.39
											Grey clay, lots of chips of dark grey arg. Larger cobbles						
PYAG-12-53	609024	7115150	1104	4.72	5.49	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Larger cobbles	K976453	<0.01	12.5	<1	0.54	1.18
											Grey clay, lots of chips of dark grey arg. Possible bedrock						
PYAG-12-53	609024	7115150	1104	5.49	6.25	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Possible bedrock	K976454	<0.01	10.3	<1	0.5	0.79
											Grey clay, lots of chips of dark grey arg.						
PYAG-12-53	609024	7115150	1104	6.25	7.01	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976455	<0.01	8.4	<1	0.55	0.75
											Grey clay, lots of chips of dark grey arg.						
PYAG-12-53	609024	7115150	1104	7.01	7.77	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976456	0.01	10.4	0.02	0.73	1.28

PYAG-12-53	609024	7115150	1104	7.77	8.53	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976457	<0.01	11.6	0.03	0.97	1.61	
PYAG-12-53	609024	7115150	1104	8.53	9.30	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976458	<0.01	8.4	0.02	0.75	1.21	
PYAG-12-53	609024	7115150	1104	9.30	10.06	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976459	0.01	7.6	0.02	0.82	1.27	
PYAG-12-53	609024	7115150	1104	10.06	10.82	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976460	<0.01	7.8	0.02	0.73	1.25	
PYAG-12-53	609024	7115150	1104	10.82	11.58	0.76	Grey	Silt	No		Grey clay, lots of chips of dark grey arg.	K976461	<0.01	8.2	0.02	0.68	1.21	
PYAG-12-53	609024	7115150	1104	11.58	12.34	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg. Less cobbles. Wet	K976462	<0.01	6.6	0.01	0.51	1.05	
PYAG-12-53	609024	7115150	1104	12.34	13.11	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976463	<0.01	7.3	0.01	0.47	1.01	
PYAG-12-53	609024	7115150	1104	13.11	13.87	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976464	<0.01	6.6	0.01	0.47	1.04	
PYAG-12-53	609024	7115150	1104	13.87	14.63	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976465	<0.01	6.9	0.01	0.46	1	
PYAG-12-53	609024	7115150	1104	14.63	15.39	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976466	<0.01	7.5	0.01	0.47	1.05	
PYAG-12-53	609024	7115150	1104	15.39	16.15	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976467	<0.01	6.8	0.01	0.48	0.88	
PYAG-12-53	609024	7115150	1104	16.15	16.92	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976468	0.01	7.5	0.01	0.41	1.08	
PYAG-12-53	609024	7115150	1104	16.92	17.68	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976469	<0.01	7.3	0.01	0.44	1.07	
PYAG-12-53	609024	7115150	1104	17.68	18.44	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976470	0.02	6.4	0.01	0.41	0.99	
PYAG-12-53	609024	7115150	1104	18.44	19.20	0.76	Grey	Silt + clay	No		Grey clay, lots of chips of dark grey arg.	K976471	<0.01	5.2	0.01	0.42	0.89	
PYAG-12-54	609033	7115086	1111	0.00	0.91	0.91	Brown	Silt + clay	Yes		Till	K976472	<0.01	21.6	<0.1	0.78	0.56	
PYAG-12-54	609033	7115086	1111	0.91	1.68	0.76	Brown	Silt + clay	Yes		Till	K976473	0.01	16.3	1.13	0.77	0.72	
PYAG-12-54	609033	7115086	1111	1.68	2.44	0.76	Brown	Silt + clay	No		Till - some cobbles of angular grey arg	K976474	0.01	15.2	0.03	0.95	1.1	
PYAG-12-54	609033	7115086	1111	2.44	3.20	0.76	Brown	Silt + clay	No		Till - some cobbles of angular grey arg	K976475	<0.01	14.2	0.02	0.9	1.14	
PYAG-12-54	609033	7115086	1111	3.20	3.96	0.76	Brown	Silt + clay	No		Increasing amount of angular grey arg	K976476	<0.01	12.3	0.02	0.84	1.03	
PYAG-12-54	609033	7115086	1111	3.96	4.72	0.76	Brown/grey	Silt + clay	No		Increasing amount of angular grey arg	K976477	<0.01	13.8	0.03	0.92	1.04	
PYAG-12-54	609033	7115086	1111	4.72	5.49	0.76	Brown/grey	Silt + clay	No		Increasing amount of angular grey arg	K976478	<0.01	14.6	0.03	0.88	1.18	
PYAG-12-54	609033	7115086	1111	5.49	6.25	0.76	Brown/grey	Silt + clay	No		Increasing amount of angular grey arg	K976479	<0.01	15.1	0.02	1.01	1.14	
PYAG-12-54	609033	7115086	1111	6.25	7.01	0.76	Grey	Silt + clay	No		Mostly all d.grey arg	K976480	<0.01	14	0.03	0.93	1.28	



PYAG-12-54	609033	7115086	1111	7.01	7.77	0.76	Grey	Silt + clay	No		Mostly all d.grey arg	K976481	<0.01	14.7	0.03	0.86	1.06
PYAG-12-54	609033	7115086	1111	7.77	8.53	0.76	Grey	Silt + clay	No		Mostly all d.grey arg. Bedrock?	K976482	<0.01	14.3	0.02	0.78	1.01
PYAG-12-54	609033	7115086	1111	8.53	9.30	0.76	Grey	Silt + clay	No		Mostly all d.grey arg. Bedrock	K976483	<0.01	15.3	0.03	0.87	1.09
PYAG-12-54	609033	7115086	1111	9.30	10.06	0.76	Grey	Silt + clay	No		Mostly all d.grey arg. Bedrock	K976484	<0.01	14.4	0.03	0.81	1.2
PYAG-12-55	609051	7115180	1097	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till. Some oxi	K976485	0.01	38.8	0.25	0.94	1.07
PYAG-12-55	609051	7115180	1097	0.91	1.68	0.76	Brown/grey	Silt + clay	Yes		Brown till + grey clay	K976486	<0.01	25.2	0.04	0.8	1.82
PYAG-12-55	609051	7115180	1097	1.68	2.44	0.76	Brown/grey	Silt + clay	No		Brown till + grey clay	K976487	0.01	48.9	0.1	0.65	1.73
PYAG-12-55	609051	7115180	1097	2.44	3.20	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg	K976488	<0.01	67.2	0.04	0.69	2.09
PYAG-12-55	609051	7115180	1097	3.20	3.96	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg	K976489	<0.01	113	0.04	0.76	1.85
PYAG-12-55	609051	7115180	1097	3.96	4.72	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg with ca veinlets	K976490	<0.01	135.5	0.03	0.83	1.88
PYAG-12-55	609051	7115180	1097	4.72	5.49	0.76	Grey	Silt + clay	No		Grey crushed up grey/black arg with ca veinlets	K976491	<0.01	162.5	0.02	0.73	1.63
PYAG-12-55	609051	7115180	1097	5.49	6.25	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976492	<0.01	871	2.57	1.43	8.88
PYAG-12-55	609051	7115180	1097	6.25	7.01	0.76	Black	Clay	No	Py, orp?	Black sooty material, f.grained py throughout. Possible flecks of orp	K976493	<0.01	681	1.25	1.11	7.7
PYAG-12-55	609051	7115180	1097	7.01	7.77	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976494	<0.01	354	0.42	1.15	2.9
PYAG-12-55	609051	7115180	1097	7.77	8.53	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976495	<0.01	344	0.54	1.37	3.45
PYAG-12-55	609051	7115180	1097	8.53	9.30	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976496	<0.01	195	0.32	1.02	2.12
PYAG-12-55	609051	7115180	1097	9.30	10.06	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976497	<0.01	182.5	0.3	1.28	2.09
PYAG-12-55	609051	7115180	1097	10.06	10.82	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976498	<0.01	211	0.45	1.05	1.99
PYAG-12-55	609051	7115180	1097	10.82	11.58	0.76	Black	Clay	No	Py, orp?	Black sooty material, f.grained py throughout. Possible flecks of orp	K976499	<0.01	199.5	0.29	0.99	1.78
PYAG-12-55	609051	7115180	1097	11.58	12.34	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	K976500	0.01	213	0.78	1.03	7.35
PYAG-12-55	609051	7115180	1097	12.34	13.11	0.76	Black	Clay	No	Py	Black sooty material, f.grained py throughout.	I383801	<0.01	200	0.4	0.89	3.12
PYAG-12-55	609051	7115180	1097	13.11	13.87	0.76	Black	Clay	No	Py, orp?	Slightly lighter colour, chips of orange on them (orp or oxi?)	I383802	<0.01	1220	1.2	1.23	9.79
PYAG-12-55	609051	7115180	1097	13.87	14.63	0.76	Black	Clay	No	Py, orp?	Slightly lighter colour, chips of orange on them (orp or oxi?)	I383803	<0.01	893	1.92	1.2	6.73
PYAG-12-55	609051	7115180	1097	14.63	15.39	0.76	D. Grey	Clay	No		fairly uniform d. grey material. No mzn	I383804	<0.01	635	2.92	0.98	4.31
PYAG-12-55	609051	7115180	1097	15.39	16.15	0.76	D. Grey	Clay	No		fairly uniform d. grey material. No mzn	I383805	<0.01	277	2.39	0.82	2.89
											Ran another run but had no return (too wet/deep)						

PYAG-12-56	609101	7115173	1091	0.00	0.91	0.91	Brown	Silt + clay	Yes		Brown till	1383806	0.01	117	8.13	0.44	0.64
PYAG-12-56	609101	7115173	1091	0.91	1.83	0.91	d. grey	Silt + clay	Yes		Gravel, crushed black rock	1383807	<0.01	31.8	13.9	0.25	0.83



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 Finalized Date: 10- MAY- 2012  
 Account: RCM

**CERTIFICATE WH12091792**

Project: Rackla Gold (Rackla)  
 P.O. No.:

This report is for 51 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30- APR- 2012.

The following have access to data associated with this certificate:

ROB CARNE JULIA LANE	ANDREW CARNE JOAN MARIACHER	MATT DUMALA
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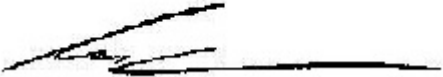
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828151		3.10	0.01	0.25	7.06	66.1	750	1.82	0.22	0.38	0.44	66.3	20.9	96	13.05	32.1
L828152		2.18	0.01	0.25	6.19	114.5	650	1.57	0.22	5.20	0.59	58.5	13.8	68	18.10	29.3
L828153		2.49	<0.01	0.34	7.77	2550	1250	2.06	0.24	1.16	7.10	81.9	21.3	99	18.35	36.2
L828154		2.83	<0.01	0.34	8.33	1950	1440	1.97	0.26	0.45	1.10	93.8	15.3	106	19.00	31.8
L828155		1.12	<0.01	0.33	7.72	2110	1330	1.97	0.23	0.30	2.08	96.6	22.6	105	18.50	36.6
L828156		1.27	<0.01	0.32	7.60	2140	1290	1.67	0.24	0.23	0.39	86.7	18.2	99	14.80	31.1
L828157		0.74	<0.01	0.47	7.64	1355	740	1.68	0.25	0.46	0.17	88.4	15.2	99	18.30	29.8
L828158		0.79	0.01	0.42	7.98	1160	730	1.94	0.25	0.40	0.25	94.2	14.8	110	19.05	30.5
L828159		0.45	<0.01	0.27	8.49	572	1110	2.37	0.27	0.42	0.15	95.4	15.6	109	22.7	31.6
L828160		0.65	<0.01	0.22	8.07	467	990	1.91	0.25	0.46	0.21	90.2	12.7	104	18.00	32.3
L828161		0.62	0.01	0.29	8.04	5170	1070	1.76	0.25	0.56	0.22	90.0	12.5	118	16.70	31.5
L828162		0.61	<0.01	0.26	8.22	5600	1050	1.95	0.25	0.54	0.24	89.9	12.2	103	16.85	35.1
L828163		0.75	<0.01	0.31	8.06	6910	960	1.87	0.28	0.56	0.45	89.5	13.0	102	16.40	36.7
L828164		0.86	<0.01	0.26	7.83	4570	1040	1.93	0.27	0.52	0.19	87.6	13.4	98	16.15	32.7
L828165		0.64	0.16	0.19	8.62	1145	380	1.80	0.26	0.52	0.24	70.3	17.2	100	17.10	34.9
L828166		0.83	0.03	0.17	8.33	1060	850	1.89	0.25	0.49	0.21	69.7	16.5	93	15.75	32.3
L828167		0.75	<0.01	0.19	8.24	864	400	2.00	0.25	0.49	0.18	82.0	14.7	104	28.3	35.0
L828168		0.36	<0.01	0.28	7.89	1620	750	1.53	0.26	0.32	0.12	78.4	10.6	110	15.80	35.7
L828169		0.62	<0.01	0.23	4.54	1600	800	0.88	0.13	12.00	0.41	41.0	7.6	50	9.51	20.1
L828170		0.81	<0.01	0.21	1.39	534	280	0.40	0.04	20.6	0.43	13.65	2.7	17	3.58	6.8
L828171		0.40	<0.01	0.16	8.04	20.6	750	1.96	0.25	0.60	0.33	76.3	16.2	89	10.20	31.7
L828172		0.61	<0.01	0.10	3.97	30	510	0.95	0.10	12.40	0.26	32.7	9.5	44	3.59	17.7
L828173		0.55	<0.01	0.07	1.18	25	150	0.37	0.03	21.7	0.36	9.80	2.9	14	1.23	6.7
L828174		0.40	<0.01	0.21	0.94	135	200	0.41	0.03	22.5	0.44	8.25	2.3	13	1.16	4.6
L828175		0.99	<0.01	3.66	7.71	31.0	760	1.91	0.25	0.60	0.24	75.0	15.8	88	9.08	29.5
L828176		0.62	<0.01	0.16	6.35	23.0	830	1.67	0.18	2.06	0.22	56.6	11.4	75	6.16	27.8
L828177		0.64	0.01	0.08	3.20	32	1860	0.78	0.09	15.40	0.15	27.4	6.0	32	3.01	18.9
L828178		0.52	<0.01	0.32	1.67	236	400	0.53	0.08	21.6	0.34	16.10	2.0	17	2.32	10.8
L828179		0.62	<0.01	0.37	1.52	279	360	0.51	0.07	21.7	0.39	14.90	1.9	16	1.97	12.1
L828180		0.34	<0.01	0.07	0.52	54	150	0.19	0.02	23.4	0.19	4.56	1.4	6	0.68	4.8
L828181		0.29	<0.01	0.18	7.57	21.6	760	2.28	0.25	0.35	0.35	79.6	27.4	88	9.18	41.1
L828182		0.52	<0.01	0.18	6.10	184.5	1610	1.74	0.23	0.33	0.47	72.8	18.4	83	9.02	51.6
L828183		0.56	<0.01	0.21	2.55	135.5	6540	0.81	0.10	0.15	0.23	33.7	4.5	57	3.71	16.8
L828184		0.46	<0.01	0.23	4.56	673	3780	0.97	0.35	0.12	0.08	77.7	1.1	317	7.16	6.3
L828185		0.44	<0.01	0.08	1.33	478	6730	0.31	0.08	0.08	0.07	20.7	1.0	89	2.23	5.8
L828186		0.42	<0.01	0.19	1.12	897	5370	0.29	0.06	0.10	0.22	18.25	1.0	66	2.04	8.6
L828187		0.59	<0.01	0.18	0.60	697	7510	0.14	0.03	0.07	0.19	10.10	0.7	46	1.47	5.5
L828188		0.38	<0.01	0.17	1.29	508	6040	0.30	0.05	0.15	0.19	17.35	2.3	56	2.27	9.2
L828189		0.61	<0.01	0.19	1.10	474	3450	0.21	0.04	0.10	0.16	15.40	2.1	46	1.92	8.4
L828190		0.76	<0.01	0.22	0.93	462	3730	0.19	0.04	0.08	0.15	14.00	1.5	45	1.78	7.9



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828151		4.62	15.85	0.17	2.2	0.82	0.060	1.64	33.1	64.0	0.85	1090	2.02	0.40	11.3	51.4
L828152		3.52	13.65	0.16	2.1	1.0	0.053	1.54	29.9	57.0	3.47	625	1.17	0.43	10.1	47.5
L828153		3.82	17.75	0.18	2.9	4.6	0.069	2.16	42.9	39.7	0.70	254	1.87	0.16	22.9	53.9
L828154		4.06	19.05	0.21	2.7	0.27	0.074	2.44	48.3	45.3	0.29	438	2.05	0.11	29.9	54.4
L828155		4.33	18.05	0.24	3.1	0.3	0.084	2.16	50.8	47.2	0.24	514	2.66	0.08	30.0	57.6
L828156		5.31	17.10	0.26	2.8	0.37	0.070	2.21	45.0	55.3	0.23	688	1.87	0.07	27.2	58.8
L828157		5.31	16.85	0.23	2.5	0.5	0.068	2.51	44.6	41.2	0.63	292	1.91	0.09	27.7	46.6
L828158		5.50	18.35	0.26	2.5	0.94	0.077	2.67	48.9	40.8	0.60	316	1.73	0.09	30.7	43.9
L828159		4.40	19.25	0.22	2.7	0.2	0.073	2.86	49.5	55.6	0.73	435	1.61	0.11	29.7	44.1
L828160		4.30	22.8	0.17	2.6	0.25	0.075	2.93	49.5	47.8	0.81	368	1.63	0.11	31.0	39.9
L828161		3.78	22.5	0.16	2.7	0.81	0.079	2.79	50.0	41.8	0.56	272	1.94	0.11	31.0	40.0
L828162		4.00	22.3	0.16	2.7	0.81	0.081	2.84	49.2	36.6	0.59	343	1.71	0.11	30.8	39.1
L828163		4.28	22.3	0.16	2.7	1.06	0.085	2.79	48.9	31.8	0.58	373	1.81	0.11	30.1	41.3
L828164		4.45	21.7	0.16	2.7	0.75	0.077	2.70	47.9	34.5	0.57	399	1.97	0.10	29.4	43.8
L828165		6.88	23.0	0.21	2.8	1.65	0.078	2.85	34.0	49.7	0.46	208	1.90	0.12	15.8	63.5
L828166		5.18	21.8	0.17	2.8	1.32	0.072	2.76	33.3	56.3	0.43	186	1.76	0.11	16.0	58.5
L828167		4.39	22.3	0.17	2.7	1.21	0.077	2.48	42.2	34.3	0.43	180	1.68	0.09	25.5	55.4
L828168		6.31	21.6	0.20	2.7	1.82	0.077	2.42	41.2	31.2	0.35	87	1.67	0.09	26.1	40.9
L828169		2.98	11.00	0.10	1.8	1.72	0.037	1.40	22.5	17.4	6.74	214	1.79	0.06	12.1	27.8
L828170		0.92	3.46	0.05	0.6	1.73	0.012	0.41	7.6	6.1	11.30	158	0.73	0.02	3.6	10.5
L828171		4.85	22.1	0.17	2.6	0.14	0.072	2.01	40.9	68.5	0.96	1190	1.31	0.49	12.8	47.2
L828172		2.46	9.42	0.06	1.4	0.38	0.030	1.04	17.9	29.8	6.59	590	1.49	0.24	6.0	35.1
L828173		0.69	2.97	0.05	0.4	0.51	0.010	0.33	5.5	9.4	10.85	145	0.44	0.07	2.0	10.2
L828174		0.62	2.41	0.07	0.4	2.35	0.008	0.27	4.7	6.9	11.25	134	0.89	0.05	1.8	9.4
L828175		4.98	21.0	0.14	2.7	0.25	0.073	1.91	39.8	68.1	0.99	779	1.29	0.51	12.7	44.4
L828176		4.17	16.50	0.13	2.2	0.15	0.057	1.66	30.9	56.1	1.14	659	1.30	0.28	9.3	45.7
L828177		1.93	7.96	0.05	1.2	0.28	0.028	0.87	15.1	25.7	7.66	276	0.86	0.16	5.2	21.7
L828178		0.80	4.04	0.05	0.7	3.38	0.014	0.54	9.2	9.7	10.85	77	1.15	0.04	3.6	10.7
L828179		0.79	3.56	0.06	0.6	3.6	0.012	0.44	8.6	9.3	10.75	78	1.11	0.03	3.2	11.6
L828180		0.28	1.35	0.19	0.2	0.6	0.006	0.14	2.7	4.0	11.45	66	0.32	0.03	1.0	4.8
L828181		5.16	21.0	0.16	2.6	0.12	0.073	1.89	42.1	72.7	1.02	1290	1.46	0.56	13.1	61.6
L828182		5.00	17.05	0.14	2.6	2.24	0.068	1.64	39.4	60.3	0.90	810	2.03	0.51	11.6	53.2
L828183		1.74	6.85	0.06	1.1	9.9	0.021	0.64	26.5	36.9	0.27	280	1.43	0.16	5.1	18.7
L828184		1.29	13.85	0.13	2.4	24.1	0.031	1.26	63.3	18.7	0.20	83	1.58	0.10	11.5	5.6
L828185		1.09	4.02	<0.05	0.6	7.86	0.013	0.36	22.3	7.8	0.09	105	3.40	0.05	2.8	5.2
L828186		1.12	3.42	<0.05	0.5	11.1	0.019	0.31	22.5	9.4	0.08	92	2.78	0.04	2.3	5.0
L828187		0.78	2.21	<0.05	0.2	10.6	0.013	0.18	13.7	6.9	0.04	63	2.36	0.04	1.3	3.8
L828188		1.03	3.84	<0.05	0.5	14.4	0.015	0.35	17.4	10.7	0.14	116	1.69	0.08	2.6	7.7
L828189		0.90	3.37	<0.05	0.5	14.3	0.011	0.29	15.2	8.4	0.14	115	1.29	0.07	2.2	6.8
L828190		0.72	2.98	<0.05	0.4	14.6	0.010	0.25	15.8	7.9	0.08	81	1.16	0.05	2.0	5.5

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
L828151		820	42.9	123.5	<0.002	0.03	1.45	15.1	2	2.2	88.4	0.73	0.06	9.4	0.418	1.19
L828152		790	28.6	112.0	<0.002	0.02	1.32	13.7	2	1.9	117.5	0.71	<0.05	8.7	0.332	1.75
L828153		1010	54.1	124.5	0.004	0.06	5.93	16.0	2	2.4	238	1.42	0.09	11.1	0.449	53.0
L828154		1300	22.6	137.5	0.004	0.03	1.86	15.3	2	2.7	236	1.74	0.11	11.4	0.493	7.34
L828155		1220	24.0	125.5	0.003	0.04	1.41	16.3	3	2.6	235	1.63	0.11	10.8	0.469	3.69
L828156		1320	33.6	114.0	0.003	0.07	1.30	14.5	3	2.3	220	1.59	0.09	11.2	0.455	3.39
L828157		1280	27.6	129.0	0.003	2.72	2.24	13.9	3	2.4	170.5	1.66	0.09	10.5	0.472	7.88
L828158		1270	18.6	144.5	0.003	2.97	1.58	14.4	3	2.6	180.0	1.67	0.12	10.7	0.497	8.69
L828159		1510	11.9	150.0	0.003	0.27	0.86	16.3	2	2.5	174.0	1.79	0.10	12.1	0.509	2.10
L828160		1410	19.3	138.0	0.003	0.33	0.78	14.1	2	2.4	150.5	1.62	0.08	11.7	0.476	1.92
L828161		1390	23.9	131.0	0.003	1.29	1.61	14.4	3	2.5	253	1.61	0.09	11.5	0.478	3.32
L828162		1380	22.1	131.0	0.002	1.07	1.48	15.2	4	2.4	244	1.63	0.09	11.7	0.489	2.87
L828163		1450	24.6	127.0	0.003	1.31	1.66	15.2	4	2.4	223	1.61	0.09	11.6	0.474	3.06
L828164		1430	20.0	124.5	0.003	1.29	1.37	15.1	4	2.3	182.0	1.56	0.09	11.3	0.464	3.21
L828165		1050	23.8	130.5	0.002	6.37	1.56	16.5	2	2.5	400	0.93	0.06	10.8	0.468	13.65
L828166		1070	20.0	123.0	<0.002	4.63	1.20	15.3	2	2.4	352	0.97	0.06	10.4	0.473	9.90
L828167		1270	15.1	117.0	0.003	3.46	1.01	14.3	2	2.5	409	1.35	0.08	10.7	0.467	10.90
L828168		1080	19.6	114.5	0.003	5.72	1.28	13.1	3	2.4	351	1.42	0.09	10.9	0.451	12.75
L828169		710	24.3	60.8	0.002	1.52	1.78	9.8	2	1.4	397	0.64	<0.05	6.1	0.239	8.40
L828170		240	24.2	17.9	0.002	0.27	1.64	5.8	1	0.5	288	0.19	<0.05	2.0	0.071	3.63
L828171		870	19.8	137.5	<0.002	0.05	0.84	17.4	2	2.4	104.5	0.80	0.06	11.2	0.419	0.90
L828172		470	13.6	56.7	<0.002	0.04	0.87	8.1	1	1.0	115.5	0.37	<0.05	5.1	0.205	0.53
L828173		150	10.8	17.9	<0.002	0.02	0.79	2.6	1	0.4	139.5	0.11	<0.05	1.6	0.059	0.37
L828174		100	27.4	13.7	<0.002	0.02	1.85	2.1	1	0.3	143.5	0.10	<0.05	1.4	0.050	0.86
L828175		870	21.0	124.0	<0.002	0.03	4.51	16.3	2	2.4	91.1	0.82	0.06	11.2	0.435	0.85
L828176		670	14.1	98.2	0.003	0.05	0.86	13.4	1	1.9	79.9	0.60	<0.05	8.6	0.335	0.69
L828177		320	8.5	48.3	0.006	0.07	0.60	6.8	1	0.9	133.5	0.32	<0.05	4.3	0.165	0.43
L828178		240	23.8	22.8	<0.002	0.02	2.55	2.6	1	0.5	388	0.20	<0.05	3.0	0.097	2.35
L828179		250	27.7	18.5	<0.002	0.01	2.88	2.5	1	0.5	384	0.18	<0.05	2.8	0.087	2.27
L828180		160	8.5	7.2	<0.002	0.02	0.82	1.2	1	0.2	202	0.05	<0.05	0.7	0.025	0.63
L828181		870	19.2	123.0	<0.002	0.03	0.93	18.4	2	2.4	86.4	0.84	0.07	11.1	0.457	0.81
L828182		850	19.8	94.3	<0.002	0.11	1.12	15.9	2	2.0	124.0	0.72	0.07	10.2	0.430	1.49
L828183		660	9.3	36.3	0.002	0.16	0.59	5.6	1	0.8	340	0.33	<0.05	4.6	0.195	1.77
L828184		1410	32.0	68.6	0.002	0.15	3.13	8.2	1	1.9	1020	0.60	0.18	10.2	0.351	12.40
L828185		430	6.5	19.4	0.002	0.18	0.84	2.3	1	0.6	303	0.15	0.05	2.7	0.095	3.92
L828186		490	5.8	16.0	0.003	0.19	0.85	2.0	1	0.5	383	0.12	0.05	2.3	0.081	6.25
L828187		290	4.1	8.5	0.002	0.25	0.64	1.2	2	0.3	255	0.07	<0.05	1.1	0.040	5.23
L828188		360	5.4	18.3	0.004	0.18	0.72	2.6	1	0.5	240	0.15	<0.05	2.2	0.090	3.60
L828189		270	4.3	15.4	0.004	0.10	0.65	2.3	1	0.4	181.5	0.13	<0.05	1.9	0.085	2.99
L828190		300	4.7	13.7	0.004	0.11	0.57	1.8	1	0.4	215	0.11	<0.05	1.7	0.065	3.30



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 Account: RCM

Project: Rackla Gold (Rackla)

CERTIFICATE OF ANALYSIS WH12091792
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Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	As- OG62 As % 0.001
L828151		2.6	138	1.8	19.4	161	85.5	
L828152		2.7	119	1.3	20.2	219	79.5	
L828153		4.0	193	3.4	24.3	1380	111.5	
L828154		3.2	211	3.9	23.2	670	115.5	
L828155		3.6	194	3.1	26.7	690	126.0	
L828156		3.0	189	3.0	20.9	546	110.0	
L828157		2.8	199	2.9	20.7	139	95.1	
L828158		2.8	207	2.8	22.9	176	103.5	
L828159		2.9	213	2.5	22.0	217	97.1	
L828160		2.8	202	2.4	21.4	238	96.8	
L828161		2.9	205	2.2	21.0	151	97.8	
L828162		2.9	205	2.2	20.3	167	98.8	
L828163		2.9	198	2.3	20.6	348	97.9	
L828164		2.8	196	2.3	21.3	132	100.0	
L828165		3.3	171	2.3	20.4	204	101.0	
L828166		3.1	168	2.3	20.4	178	98.5	
L828167		3.6	198	3.1	20.9	185	97.1	
L828168		3.4	195	3.2	17.2	86	99.1	
L828169		4.0	97	3.1	11.8	225	62.1	
L828170		3.0	38	1.6	4.5	179	20.5	
L828171		2.9	149	1.4	19.2	128	91.5	
L828172		2.1	69	0.8	11.6	113	51.3	
L828173		1.5	22	0.4	3.7	55	15.8	
L828174		1.6	19	1.0	2.8	140	13.7	
L828175		2.9	146	1.4	19.0	133	96.9	
L828176		2.4	117	1.1	16.0	125	74.9	
L828177		1.6	56	0.6	8.3	70	41.6	
L828178		4.1	32	4.3	2.8	237	24.9	
L828179		4.3	30	4.5	2.9	285	22.3	
L828180		1.9	12	0.6	2.1	63	6.6	
L828181		3.0	153	1.4	23.3	170	92.9	
L828182		2.7	135	1.4	21.5	130	94.9	
L828183		2.2	57	1.6	10.5	44	38.4	
L828184		5.9	151	5.6	22.0	15	86.2	
L828185		2.0	42	1.3	5.6	9	22.5	
L828186		2.3	36	1.4	4.9	12	18.8	
L828187		1.7	22	0.8	2.5	9	8.7	
L828188		1.8	37	2.2	4.7	21	18.0	
L828189		1.5	34	2.3	4.3	17	16.2	
L828190		1.6	28	2.7	3.7	15	14.1	



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828191		0.58	<0.01	0.21	0.66	392	2590	0.15	0.03	0.07	0.13	11.15	1.1	39	1.41	7.0
L828192		0.53	0.01	0.20	0.87	776	3420	0.21	0.04	0.07	0.14	13.75	1.3	42	1.79	6.6
L828193		0.69	<0.01	0.20	0.67	609	3350	0.15	0.03	0.07	0.13	11.20	1.0	41	1.70	6.7
L828194		0.89	<0.01	0.19	0.67	895	6790	0.15	0.03	0.08	0.18	12.15	1.0	46	1.66	6.5
L828195		0.91	<0.01	0.19	0.39	792	6890	0.09	0.02	0.06	0.20	9.02	0.6	34	1.30	4.8
L828196		0.61	<0.01	0.23	0.51	788	3990	0.12	0.03	0.06	0.23	10.60	0.8	40	1.41	6.2
L828197		0.57	<0.01	0.22	0.49	621	4370	0.11	0.02	0.06	0.22	9.79	0.7	42	1.40	5.6
L828198		0.53	0.02	0.26	0.51	>10000	2240	0.17	0.03	0.03	1.49	14.00	0.5	51	1.49	5.2
L828199		0.77	0.03	0.25	0.52	>10000	2340	0.19	0.03	0.04	1.27	14.40	0.5	53	1.36	5.6
L828200		0.80	0.05	0.25	0.28	>10000	2020	0.09	0.01	0.03	0.79	7.99	0.4	32	0.92	10.0
L828201		0.68	0.04	0.20	0.27	>10000	1490	0.09	0.01	0.03	0.69	7.48	0.3	34	0.83	9.9

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828191		0.60	2.11	<0.05	0.3	15.9	0.007	0.18	14.1	6.7	0.05	64	0.93	0.03	1.5	4.1
L828192		0.71	2.72	<0.05	0.4	13.8	0.008	0.26	16.7	7.5	0.08	63	0.77	0.04	1.7	5.2
L828193		0.60	2.13	<0.05	0.3	19.1	0.006	0.18	14.5	5.8	0.05	61	0.96	0.03	1.4	4.0
L828194		0.65	2.05	<0.05	0.3	20.7	0.007	0.17	16.6	7.9	0.05	70	0.87	0.04	1.4	4.1
L828195		0.51	1.29	<0.05	0.2	27.3	<0.005	0.10	14.6	7.7	0.03	49	0.68	0.03	0.8	3.0
L828196		0.50	1.68	<0.05	0.2	30.3	0.005	0.14	15.0	5.8	0.04	52	0.55	0.03	1.2	3.6
L828197		0.51	1.60	<0.05	0.2	28.4	<0.005	0.13	14.3	5.9	0.04	55	0.97	0.03	1.1	3.4
L828198		0.44	1.68	<0.05	0.2	35.0	0.014	0.13	21.8	4.8	0.03	44	0.47	0.01	1.2	3.9
L828199		0.45	1.72	<0.05	0.2	28.5	0.016	0.13	23.3	5.1	0.03	47	0.52	0.02	1.0	3.9
L828200		0.38	1.07	<0.05	0.1	20.4	0.015	0.06	12.9	6.4	0.02	40	0.57	0.01	0.5	3.3
L828201		0.37	1.00	<0.05	0.1	28.7	0.018	0.06	12.6	6.3	0.01	38	0.53	0.01	0.4	3.5

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828191		250	4.2	9.4	0.005	0.08	0.51	1.2	1	0.3	174.5	0.08	<0.05	1.2	0.046	2.76
L828192		300	3.8	12.6	0.005	0.09	0.66	1.5	1	0.4	200	0.10	<0.05	1.7	0.056	5.90
L828193		250	3.3	9.5	0.006	0.09	0.63	1.2	1	0.3	179.5	0.08	<0.05	1.3	0.045	4.52
L828194		340	5.3	9.2	0.008	0.18	0.62	1.1	1	0.4	250	0.08	<0.05	1.3	0.044	5.23
L828195		270	5.0	5.4	0.010	0.18	0.54	0.6	1	0.2	214	0.05	<0.05	0.9	0.025	4.68
L828196		290	4.1	7.3	0.004	0.13	0.49	0.8	1	0.3	214	0.07	<0.05	1.2	0.035	3.17
L828197		270	3.9	7.0	0.005	0.13	0.47	0.7	1	0.3	205	0.07	<0.05	1.0	0.034	3.28
L828198		760	4.9	6.3	0.005	0.81	2.22	0.6	4	0.3	571	0.06	<0.05	1.2	0.030	5.31
L828199		860	4.2	6.3	0.005	0.79	1.91	0.6	5	0.2	637	0.06	<0.05	1.2	0.028	4.75
L828200		450	4.4	2.9	0.007	0.66	2.15	0.4	3	0.2	332	<0.05	<0.05	0.6	0.012	5.54
L828201		400	3.1	2.8	0.008	0.80	2.74	0.4	3	<0.2	301	<0.05	<0.05	0.6	0.012	6.59

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12091792**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.1	1	0.1	0.1	2	0.5	0.001
L828191		1.4	22	2.5	2.8	12	10.6	
L828192		1.6	26	2.2	3.0	15	12.9	
L828193		1.4	22	2.3	2.6	12	10.3	
L828194		1.7	23	2.5	2.8	12	10.2	
L828195		1.5	16	1.9	1.8	11	6.2	
L828196		1.7	20	3.0	2.4	10	8.6	
L828197		1.6	20	2.6	2.3	9	8.2	
L828198		2.9	27	1.6	4.9	26	8.2	1.275
L828199		3.1	27	1.6	5.6	20	7.4	1.315
L828200		2.4	17	1.2	3.9	45	3.6	0.957
L828201		2.4	18	1.0	4.0	93	3.6	1.285



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**CERTIFICATE OF ANALYSIS WH12091792**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REEs may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12100500**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D  
 This report is for 142 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

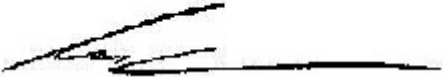
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828202		0.55	<0.01	0.16	5.61	115.0	670	1.43	0.21	0.24	0.23	52.5	18.8	70	6.76	48.8
L828203		0.54	<0.01	0.14	6.64	167.0	690	1.65	0.21	0.72	0.31	63.0	21.2	84	9.80	55.3
L828204		0.45	<0.01	0.08	3.74	281	2400	1.02	0.13	0.24	0.23	40.2	12.0	72	4.84	29.0
L828205		0.31	<0.01	0.17	3.77	97.5	2880	1.01	0.15	0.16	0.20	41.8	9.3	51	4.51	26.6
L828206		0.39	<0.01	0.09	3.05	117.0	3170	0.87	0.10	0.13	0.17	33.8	8.8	55	3.80	18.4
L828207		0.99	<0.01	0.06	1.38	385	5880	0.46	0.06	0.07	0.11	17.95	6.2	57	1.89	18.7
L828208		0.78	<0.01	0.12	7.07	17.8	720	1.91	0.24	0.37	0.23	74.0	18.9	84	6.76	31.1
L828209		0.55	<0.01	0.14	6.68	25.6	750	1.74	0.24	1.56	0.39	71.9	17.9	77	5.75	47.6
L828210		0.85	<0.01	0.12	6.32	22.0	680	1.59	0.21	2.03	0.30	65.3	16.5	81	4.83	44.0
L828211		0.78	<0.01	0.15	7.09	1685	790	1.76	0.24	2.20	0.45	77.4	17.9	80	8.17	50.1
L828212		1.26	<0.01	0.15	6.84	1185	660	1.56	0.22	3.40	0.38	70.1	18.6	84	6.72	54.1
L828213		0.47	<0.01	0.20	7.99	1505	1130	2.03	0.26	1.48	1.30	89.4	15.9	102	21.5	46.2
L828214		0.78	<0.01	0.20	8.32	746	1240	2.22	0.27	0.74	0.43	94.3	14.1	102	33.1	36.5
L828215		0.93	<0.01	0.22	8.47	241	1020	2.31	0.26	0.44	0.17	92.8	13.7	103	39.3	33.7
L828216		0.84	<0.01	0.21	8.58	442	1120	2.44	0.27	0.45	0.37	96.6	14.0	106	38.3	35.2
L828217		0.46	<0.01	0.21	8.55	169.0	1590	2.22	0.27	0.55	0.16	95.3	15.1	109	36.9	34.9
L828218		0.68	<0.01	0.23	8.57	189.5	1170	2.23	0.27	0.49	0.13	96.5	14.8	109	40.7	35.6
L828219		0.53	<0.01	0.21	8.67	81.1	1030	2.27	0.27	0.76	0.11	97.0	13.9	112	46.8	36.5
L828220		0.71	<0.01	0.21	8.67	110.0	1160	2.31	0.27	0.84	0.13	98.5	14.6	112	43.2	35.2
L828221		0.54	<0.01	0.20	8.60	70.5	2590	2.33	0.27	0.81	0.10	95.9	14.6	114	39.2	35.3
L828222		0.56	<0.01	0.19	8.45	76.3	2240	2.11	0.27	0.73	0.11	95.1	13.6	111	37.8	33.3
L828223		0.72	<0.01	0.20	8.65	64.5	1460	2.27	0.27	0.69	0.11	97.2	14.2	108	40.4	36.0
L828224		0.55	<0.01	0.22	8.89	44.5	1250	2.50	0.28	0.61	0.10	99.0	13.7	111	41.8	36.5
L828225		0.70	<0.01	0.19	7.12	885	880	1.77	0.22	0.61	0.41	72.1	17.6	87	8.23	39.6
L828226		1.02	<0.01	0.12	6.67	683	770	1.53	0.20	2.14	0.36	65.3	15.3	76	11.85	45.6
L828227		0.99	<0.01	0.16	7.22	846	940	1.80	0.23	2.15	0.37	73.3	17.3	84	11.35	51.0
L828228		0.65	<0.01	3.54	5.75	866	3000	1.66	0.22	2.23	3.81	44.2	2.2	184	22.7	38.0
L828229		0.89	<0.01	3.83	6.35	736	5150	1.68	0.25	2.97	1.64	46.4	1.9	218	21.8	29.6
L828230		0.92	<0.01	0.14	7.28	25.6	690	1.77	0.23	1.33	0.35	75.5	18.6	86	6.75	58.7
L828231		0.87	<0.01	0.16	6.86	46.6	1040	1.68	0.21	4.07	0.35	68.7	16.9	77	7.55	52.1
L828232		1.03	<0.01	0.18	6.82	67.3	820	1.70	0.24	3.59	0.37	71.4	18.8	77	7.41	54.3
L828233		1.16	0.03	0.49	7.21	1785	660	1.64	0.23	1.67	0.85	71.4	14.4	96	14.20	40.6
L828234		1.30	<0.01	0.17	8.54	536	410	2.21	0.27	0.72	0.28	84.3	18.7	99	22.2	41.6
L828235		1.08	<0.01	0.23	6.58	653	510	1.69	0.21	0.87	0.24	67.5	14.6	82	17.05	33.5
L828236		1.41	<0.01	0.22	6.35	398	390	1.89	0.21	0.64	0.19	72.3	13.6	85	20.9	30.1
L828237		1.01	<0.01	0.22	6.57	185.5	640	2.07	0.20	0.48	0.19	78.2	14.1	94	24.1	30.5
L828238		1.30	<0.01	0.21	5.72	261	400	1.49	0.17	1.47	0.24	61.7	12.2	71	16.25	27.4
L828239		1.05	<0.01	0.22	8.00	96.0	910	2.81	0.27	0.59	0.15	99.2	13.5	100	51.0	34.9
L828240		0.91	<0.01	0.25	8.43	90.5	910	2.79	0.29	0.59	0.14	101.0	15.1	107	50.0	37.0
L828241		0.41	<0.01	0.16	6.83	22.7	740	1.69	0.26	0.69	0.29	75.0	17.0	84	7.86	55.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: ATAC RESOURCES LTD.  
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 Plus Appendix Pages  
 Finalized Date: 22- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828202		4.97	15.70	0.15	2.2	0.54	0.061	1.31	26.1	50.6	1.11	651	1.15	0.56	9.6	45.0
L828203		5.23	17.40	0.15	2.5	0.59	0.071	1.49	31.3	56.2	1.40	911	1.04	0.71	10.1	52.3
L828204		3.00	9.73	0.11	1.5	14.2	0.040	0.93	21.7	39.4	0.56	420	1.18	0.27	6.2	26.1
L828205		2.38	9.47	0.11	1.5	4.60	0.039	0.94	23.8	34.5	0.48	380	1.02	0.26	6.0	25.4
L828206		2.21	8.20	0.09	1.3	10.8	0.032	0.77	21.2	30.6	0.41	342	2.16	0.20	5.2	22.2
L828207		1.21	3.65	0.07	0.6	6.93	0.016	0.35	15.3	17.0	0.17	154	0.77	0.11	2.5	10.1
L828208		4.59	18.80	0.17	2.4	0.10	0.071	1.82	36.9	63.3	0.87	920	1.49	0.41	11.3	44.5
L828209		4.78	17.50	0.17	2.5	0.11	0.068	1.79	36.6	56.9	1.05	699	1.32	0.47	11.3	49.1
L828210		4.58	15.85	0.17	2.2	0.08	0.062	1.70	33.2	52.1	1.19	744	1.66	0.53	10.1	45.3
L828211		4.85	18.30	0.18	2.7	0.88	0.068	2.02	39.0	60.4	1.16	554	1.75	0.48	12.6	49.4
L828212		5.15	16.80	0.17	2.5	0.30	0.067	1.75	34.8	53.7	1.33	641	1.91	0.67	12.1	47.7
L828213		5.11	20.8	0.19	3.0	0.28	0.076	2.22	45.3	84.3	0.91	327	3.10	0.40	21.2	47.0
L828214		4.81	21.1	0.18	2.5	0.22	0.075	2.49	48.1	101.5	0.76	341	2.56	0.29	26.4	45.7
L828215		4.42	21.6	0.17	2.5	0.18	0.079	2.64	46.8	104.5	0.79	341	2.00	0.25	28.9	44.3
L828216		4.66	22.1	0.19	2.5	0.20	0.079	2.62	48.9	110.5	0.76	328	2.27	0.25	29.7	50.4
L828217		4.28	21.9	0.19	2.5	0.18	0.078	2.50	48.8	108.0	0.83	336	1.66	0.25	29.3	46.3
L828218		4.51	21.8	0.18	2.6	0.16	0.078	2.65	49.2	97.8	0.86	355	1.52	0.26	29.8	43.3
L828219		4.13	22.3	0.19	2.6	0.15	0.077	2.57	50.4	90.9	0.89	279	1.47	0.27	29.6	38.3
L828220		5.15	22.3	0.21	2.6	0.18	0.075	2.63	50.5	94.2	0.96	374	1.46	0.27	28.7	41.0
L828221		3.56	22.9	0.19	2.6	0.20	0.079	2.72	49.4	83.1	0.91	203	1.08	0.24	28.9	41.0
L828222		4.16	21.6	0.20	2.5	0.17	0.078	2.62	48.7	87.8	0.90	267	1.10	0.24	28.5	38.1
L828223		4.44	22.8	0.21	2.6	0.19	0.080	2.73	49.4	92.1	0.94	328	1.57	0.26	30.2	39.6
L828224		4.26	23.0	0.21	2.6	0.18	0.078	2.79	50.7	103.0	0.91	310	1.44	0.26	30.3	38.6
L828225		4.93	17.55	0.21	2.5	0.12	0.068	1.83	36.0	63.7	1.01	371	1.34	0.45	10.8	52.8
L828226		4.90	16.35	0.19	2.4	0.50	0.064	1.84	32.8	55.8	1.26	424	1.19	0.48	10.6	44.9
L828227		5.20	17.45	0.20	2.6	0.65	0.068	2.00	36.9	57.4	1.20	354	1.86	0.52	12.2	49.8
L828228		1.58	14.85	0.19	2.3	26.3	0.048	1.86	27.2	28.3	0.43	55	6.15	0.09	8.7	64.4
L828229		1.46	15.40	0.26	2.0	28.5	0.058	2.04	29.6	27.6	0.41	52	5.94	0.09	6.7	73.0
L828230		5.25	18.10	0.19	2.6	0.14	0.071	1.94	37.3	56.3	1.21	722	1.27	0.62	12.0	49.2
L828231		4.78	16.70	0.20	2.4	0.13	0.069	1.92	34.5	56.5	1.31	548	1.48	0.49	11.9	46.6
L828232		4.98	16.85	0.19	2.5	0.17	0.066	1.94	35.6	56.8	1.58	606	1.40	0.53	12.2	48.3
L828233		4.00	17.45	0.17	2.4	3.79	0.068	1.89	39.5	49.8	0.67	211	2.29	0.24	14.3	51.6
L828234		4.05	22.4	0.19	2.8	2.65	0.077	2.51	42.3	67.9	0.58	141	1.71	0.26	16.6	62.8
L828235		3.96	16.50	0.16	2.5	3.09	0.064	1.70	33.4	71.9	0.51	172	1.72	0.19	15.9	45.6
L828236		2.89	16.70	0.15	2.4	2.11	0.065	1.71	36.0	78.4	0.42	116	1.57	0.16	19.3	39.6
L828237		1.96	17.80	0.15	2.5	0.93	0.070	1.84	39.6	91.5	0.35	81	1.66	0.16	23.0	36.4
L828238		4.02	14.00	0.17	2.2	1.85	0.053	1.46	30.9	72.4	0.61	158	1.64	0.18	15.8	37.1
L828239		4.44	21.9	0.21	3.0	0.41	0.079	2.51	48.8	102.0	0.74	447	1.60	0.21	30.3	37.5
L828240		4.50	23.6	0.25	3.1	0.35	0.081	2.70	49.5	111.0	0.80	407	3.65	0.22	31.0	41.2
L828241		5.03	18.25	0.22	2.9	0.14	0.069	1.85	35.3	61.3	1.33	461	1.64	0.54	12.5	42.3

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 Plus Appendix Pages  
 Finalized Date: 22- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828202		620	16.2	80.4	<0.002	0.03	0.64	14.9	2	1.9	74.3	0.66	0.08	8.0	0.414	0.77
L828203		700	16.7	95.9	<0.002	0.03	0.71	18.9	2	1.8	98.0	0.67	0.09	9.6	0.480	0.97
L828204		480	10.2	53.3	<0.002	0.07	0.64	9.5	1	1.2	109.0	0.42	0.05	5.8	0.272	1.67
L828205		520	17.6	59.3	<0.002	0.07	1.09	8.4	1	1.2	140.5	0.43	<0.05	6.5	0.230	0.71
L828206		470	7.7	49.3	<0.002	0.08	0.63	7.4	1	1.0	152.5	0.34	<0.05	4.9	0.193	0.72
L828207		380	4.3	19.9	0.002	0.15	0.48	3.3	1	0.5	190.0	0.18	<0.05	2.4	0.102	2.16
L828208		830	18.6	119.0	<0.002	0.04	0.81	16.1	2	2.2	83.1	0.76	0.07	11.1	0.412	0.74
L828209		810	16.6	103.0	0.002	0.07	0.78	16.3	2	2.1	108.5	0.76	0.08	10.9	0.436	0.64
L828210		710	14.7	93.5	0.002	0.10	0.68	14.6	2	1.9	107.5	0.68	0.08	9.9	0.398	0.54
L828211		920	16.7	112.5	0.004	0.10	1.17	17.2	2	2.1	145.5	0.81	0.08	11.5	0.470	1.20
L828212		780	15.5	92.8	0.002	0.13	0.94	17.6	2	2.0	144.5	0.79	0.08	10.4	0.554	1.10
L828213		1200	18.8	128.0	0.027	0.16	2.61	17.0	3	2.4	224	1.27	0.09	12.6	0.504	3.72
L828214		1410	19.3	138.0	0.012	0.25	1.40	15.3	3	2.4	231	1.55	0.10	12.7	0.500	3.39
L828215		1480	19.3	145.0	0.005	0.23	1.03	15.0	2	2.4	234	1.65	0.10	12.3	0.501	3.21
L828216		1530	20.1	148.5	0.009	0.27	1.25	15.4	3	2.5	249	1.67	0.10	12.8	0.506	3.73
L828217		1310	20.7	139.0	0.004	0.31	1.16	14.9	3	2.5	279	1.67	0.11	12.8	0.509	1.44
L828218		1440	19.3	146.5	0.004	0.30	1.01	15.1	3	2.5	227	1.71	0.11	12.5	0.522	1.32
L828219		1400	20.0	146.5	0.003	0.24	1.07	15.5	3	2.5	201	1.67	0.11	13.0	0.523	1.25
L828220		1690	20.5	150.0	0.003	0.43	1.10	15.4	3	2.5	209	1.64	0.10	12.9	0.514	1.39
L828221		1470	17.9	149.0	0.003	0.21	0.93	15.6	2	2.6	304	1.63	0.12	12.5	0.509	1.17
L828222		1420	16.5	144.5	0.003	0.22	0.98	15.0	2	2.4	302	1.58	0.11	12.3	0.503	1.13
L828223		1520	20.1	153.0	0.003	0.25	1.17	15.7	3	2.6	237	1.68	0.11	12.7	0.512	1.24
L828224		1470	20.5	158.0	0.003	0.22	1.08	15.9	3	2.6	226	1.72	0.11	13.2	0.529	1.19
L828225		1220	17.0	110.0	0.003	0.08	0.84	16.4	4	2.0	93.7	0.73	0.08	10.2	0.429	1.89
L828226		830	14.6	99.1	0.002	0.18	0.86	15.6	3	1.8	120.5	0.71	0.08	10.0	0.446	5.58
L828227		1040	17.9	111.0	0.002	0.20	0.95	16.4	2	2.1	167.0	0.81	0.08	11.2	0.489	4.01
L828228		8680	15.4	97.4	0.006	0.24	13.50	9.6	17	1.7	521	0.59	0.16	7.4	0.288	13.85
L828229		>10000	13.8	101.0	0.010	0.25	13.45	9.8	24	1.1	899	0.41	0.18	7.9	0.255	14.70
L828230		890	16.8	103.0	<0.002	0.03	0.89	18.0	2	2.0	105.0	0.79	0.09	10.9	0.512	0.63
L828231		860	16.7	98.7	0.003	0.41	0.91	16.4	2	1.9	179.5	0.77	0.08	10.2	0.473	0.60
L828232		890	17.9	98.6	0.003	0.75	0.89	16.7	2	1.9	176.5	0.80	0.09	10.6	0.498	0.62
L828233		1350	16.1	103.5	0.006	2.77	1.43	13.5	4	2.1	804	0.91	0.09	10.0	0.425	7.91
L828234		1080	23.2	140.5	0.003	3.06	1.09	15.3	2	2.6	659	1.05	0.09	11.8	0.508	7.05
L828235		1300	21.0	98.3	0.002	3.14	1.21	11.9	3	2.0	751	0.96	0.08	9.3	0.391	7.81
L828236		1080	17.3	101.5	0.002	2.25	0.97	11.6	2	2.0	620	1.18	0.09	9.4	0.392	5.69
L828237		1160	18.7	107.0	0.002	1.53	1.18	12.5	2	2.1	533	1.38	0.09	10.2	0.430	3.03
L828238		890	17.0	81.1	0.002	3.34	1.05	10.4	2	1.6	419	0.95	0.08	8.3	0.362	5.95
L828239		1470	20.0	159.0	0.003	0.74	1.01	13.8	3	2.5	262	1.72	0.10	11.1	0.466	2.03
L828240		1420	24.0	169.5	0.003	0.69	1.26	14.8	3	2.6	241	1.79	0.11	11.7	0.487	2.00
L828241		830	17.1	99.5	<0.002	0.05	0.86	15.9	2	2.2	90.4	0.88	0.09	9.9	0.462	0.64





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To: **ATAC RESOURCES LTD.**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981)**  
**LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

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 Account: RCM

Project: Rackla Gold (Rackla)

<b>CERTIFICATE OF ANALYSIS WH12100500</b>
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Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
L828202		2.1	134	2.3	16.8	135	83.3
L828203		2.2	160	1.6	21.1	150	97.6
L828204		1.7	89	18.1	12.5	85	56.6
L828205		1.8	73	0.8	11.8	81	56.3
L828206		1.6	63	0.7	10.4	64	46.6
L828207		1.3	34	24.8	5.5	37	21.1
L828208		2.7	146	1.3	18.7	132	91.1
L828209		2.6	140	1.2	20.4	129	96.3
L828210		2.2	128	1.0	18.5	118	86.0
L828211		2.9	152	1.2	22.6	139	112.0
L828212		2.5	159	1.2	20.8	127	100.5
L828213		3.1	187	1.5	24.8	362	124.0
L828214		2.8	207	1.6	22.9	468	98.8
L828215		2.8	207	1.6	22.8	423	100.0
L828216		2.9	211	1.7	23.9	451	103.0
L828217		2.8	213	1.7	21.0	322	102.0
L828218		2.7	219	1.7	23.0	205	106.0
L828219		2.8	222	1.7	23.1	144	108.0
L828220		2.8	224	1.7	23.9	163	107.0
L828221		2.8	231	1.7	18.9	136	104.5
L828222		2.7	225	1.6	19.1	135	104.5
L828223		2.7	218	1.7	22.0	138	103.5
L828224		2.8	225	1.7	22.8	139	106.5
L828225		3.3	153	1.2	21.3	152	96.2
L828226		2.6	146	1.2	19.2	136	92.9
L828227		2.8	153	1.5	21.6	157	103.5
L828228		10.3	1280	3.3	26.5	183	90.8
L828229		10.8	624	3.0	30.3	119	85.3
L828230		2.6	163	1.2	22.6	138	102.5
L828231		2.5	148	1.1	20.8	146	98.7
L828232		2.5	148	1.2	21.0	144	102.0
L828233		4.4	171	9.9	21.9	183	92.3
L828234		3.3	179	12.1	23.6	167	106.5
L828235		2.7	148	9.2	20.7	137	95.5
L828236		2.5	148	9.9	19.2	132	90.5
L828237		2.5	160	5.0	20.3	153	96.6
L828238		2.3	131	4.9	17.1	141	83.5
L828239		2.7	190	2.5	24.3	130	109.0
L828240		2.9	206	2.5	24.5	134	111.5
L828241		2.6	153	1.2	21.1	126	99.4



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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828242		0.69	<0.01	0.16	6.95	17.1	640	1.58	0.24	3.34	0.35	77.7	16.8	73	7.34	54.3
L828243		0.61	<0.01	0.15	7.02	16.6	700	1.69	0.25	2.58	0.51	69.2	16.5	82	9.62	51.0
L828244		0.62	<0.01	0.14	7.30	16.8	730	1.63	0.24	2.90	0.34	73.0	16.4	86	9.73	52.1
L828245		0.58	<0.01	0.14	6.67	13.9	590	1.47	0.22	4.07	0.28	69.4	16.0	78	8.15	52.7
L828246		0.92	<0.01	0.15	6.48	14.2	630	1.40	0.21	4.57	0.31	65.3	15.5	81	7.72	48.2
L828247		0.65	<0.01	0.16	7.13	13.7	640	1.55	0.24	4.56	0.32	71.3	15.7	81	8.63	49.1
L828248		0.64	<0.01	0.14	7.07	13.4	680	1.67	0.23	3.94	0.34	73.4	17.2	80	8.16	52.8
L828249		0.61	0.02	0.15	7.30	24.7	670	1.61	0.23	3.56	0.31	72.7	17.6	87	9.06	53.7
L828250		0.94	<0.01	0.15	7.33	56.6	730	1.64	0.24	3.76	0.31	73.4	15.8	83	10.20	49.7
L828251		0.71	<0.01	0.12	8.61	300	990	2.14	0.27	1.46	0.15	87.2	16.5	94	24.6	35.7
L828252		0.68	<0.01	0.11	8.48	234	960	2.14	0.28	1.24	0.13	84.6	16.5	93	24.7	35.3
L828253		0.59	<0.01	0.14	8.33	3400	860	1.95	0.27	1.61	0.12	82.4	16.7	85	23.0	33.6
L828254		0.67	<0.01	0.14	8.24	4220	420	1.82	0.26	1.99	0.15	81.0	16.3	88	20.4	33.5
L828255		0.81	<0.01	0.15	6.54	4430	270	1.41	0.21	2.17	0.17	67.4	14.7	104	15.35	30.0
L828256		0.64	<0.01	0.14	7.20	22.2	790	1.76	0.25	0.58	0.38	79.4	18.2	86	8.15	53.3
L828257		0.65	<0.01	0.14	7.56	23.8	830	1.80	0.26	1.58	0.32	77.6	18.1	88	11.20	55.3
L828258		0.82	<0.01	0.15	7.31	19.8	770	1.68	0.25	3.64	0.28	75.1	16.4	85	10.95	50.5
L828259		0.43	<0.01	0.17	8.56	20.4	900	1.97	0.29	2.88	0.32	79.6	18.5	101	13.60	53.3
L828260		0.66	<0.01	0.13	7.95	16.8	900	1.85	0.27	2.60	0.29	82.5	17.3	91	12.65	48.5
L828261		0.64	<0.01	0.17	7.26	16.2	760	1.62	0.25	4.22	0.60	73.4	15.8	83	10.85	50.1
L828262		0.73	<0.01	0.17	7.24	15.4	750	1.57	0.25	3.45	0.30	75.2	16.0	81	11.00	50.4
L828263		0.77	<0.01	0.17	7.48	30.6	770	1.75	0.26	3.65	0.32	77.2	17.8	85	11.60	53.5
L828264		0.99	<0.01	0.17	7.36	18.4	730	1.68	0.25	3.41	0.29	76.7	16.8	86	12.35	51.6
L828265		0.66	<0.01	0.08	6.66	12.8	400	1.66	0.21	2.70	0.11	74.8	15.1	80	16.15	25.7
L828266		0.50	<0.01	0.09	6.28	12.5	390	1.61	0.19	2.77	0.13	73.4	14.1	85	15.25	25.1
L828267		0.79	<0.01	0.17	7.29	26.3	800	1.79	0.26	1.06	0.36	79.6	16.8	86	10.45	52.5
L828268		0.72	<0.01	0.15	7.17	14.8	680	1.73	0.24	3.92	0.29	74.0	16.8	80	8.32	47.7
L828269		0.71	<0.01	0.15	6.91	14.3	690	1.60	0.24	3.30	0.30	65.8	15.3	79	8.10	45.2
L828270		0.76	<0.01	0.18	7.12	15.2	790	1.63	0.24	4.58	0.35	72.0	16.4	80	7.57	52.3
L828271		0.77	<0.01	0.17	7.34	14.8	750	1.74	0.26	3.38	0.29	73.0	17.0	81	7.56	52.2
L828272		0.74	<0.01	0.13	7.00	14.3	640	1.66	0.27	4.48	0.28	74.0	15.2	70	6.81	43.2
L828273		0.57	<0.01	0.14	7.30	15.6	700	1.80	0.27	3.72	0.28	73.3	16.5	82	7.76	44.9
L828274		0.68	<0.01	0.09	7.86	14.3	580	2.00	0.25	1.11	0.11	80.0	17.7	85	14.35	31.0
L828275		0.72	<0.01	0.09	8.13	12.6	540	1.97	0.23	1.32	0.16	74.7	15.9	85	14.45	37.6
L828276		0.56	<0.01	0.09	8.74	9.4	450	1.96	0.25	1.05	0.08	75.6	18.0	89	14.50	31.4
L828277		0.59	<0.01	0.08	8.00	9.5	430	1.89	0.21	1.50	0.13	72.9	16.1	83	13.95	31.7
L828278		0.57	<0.01	0.09	8.68	13.2	490	2.10	0.25	0.86	0.12	80.3	17.0	93	15.90	36.2
L828279		0.55	<0.01	0.09	7.48	10.4	440	2.04	0.23	0.78	0.11	68.1	16.0	85	15.75	33.1
L828280		0.53	<0.01	0.15	6.95	18.5	650	1.57	0.23	0.83	0.37	67.8	19.0	82	6.32	62.9
L828281		0.61	<0.01	0.10	9.21	19.9	890	2.41	0.27	0.26	0.17	68.5	19.9	103	10.70	38.0

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828242		4.98	18.10	0.23	3.1	0.13	0.073	1.92	36.8	55.4	1.41	661	1.44	0.47	11.9	41.6
L828243		4.91	18.65	0.22	2.8	0.10	0.072	1.98	31.5	56.5	1.16	530	1.52	0.45	12.1	46.4
L828244		4.98	18.50	0.22	3.0	0.11	0.069	1.99	34.9	57.0	1.22	553	1.87	0.47	11.8	45.3
L828245		4.97	17.25	0.22	2.8	0.08	0.066	1.83	32.9	52.8	1.51	538	1.83	0.44	11.2	42.4
L828246		4.45	16.55	0.21	2.7	0.11	0.064	1.78	31.6	50.6	1.45	502	1.55	0.45	10.9	40.2
L828247		4.70	17.95	0.22	2.9	0.08	0.068	1.99	34.3	55.1	1.40	554	1.65	0.46	11.3	42.6
L828248		4.86	18.35	0.21	3.0	0.09	0.064	1.95	34.6	57.7	1.44	557	1.49	0.47	11.9	46.1
L828249		4.94	19.15	0.22	3.1	0.09	0.071	1.95	35.0	57.4	1.45	609	1.36	0.49	11.7	47.3
L828250		4.80	19.10	0.22	3.0	0.08	0.072	2.07	35.1	56.8	1.43	540	1.36	0.45	12.0	44.9
L828251		4.85	23.1	0.24	3.0	0.45	0.079	2.49	41.7	101.5	1.21	605	1.32	0.33	16.2	49.9
L828252		4.86	22.7	0.24	3.0	0.43	0.077	2.47	40.4	97.8	1.15	586	1.12	0.32	15.3	48.5
L828253		4.71	22.6	0.23	2.9	0.86	0.078	2.25	38.5	92.6	1.12	490	1.09	0.26	15.8	48.3
L828254		4.66	21.6	0.23	3.0	0.92	0.074	2.11	38.6	88.3	1.16	508	1.13	0.25	16.4	47.7
L828255		4.23	17.40	0.21	2.5	0.74	0.060	1.61	32.6	70.6	1.03	484	1.92	0.20	14.6	41.2
L828256		5.26	19.95	0.24	3.0	0.11	0.072	1.92	37.7	57.9	0.90	807	1.51	0.50	12.4	47.0
L828257		5.03	20.4	0.22	2.9	0.10	0.072	2.10	36.5	62.1	0.91	598	1.58	0.45	13.6	47.7
L828258		4.98	19.30	0.22	2.8	0.10	0.071	2.06	35.4	58.3	1.02	444	1.48	0.41	13.7	43.8
L828259		5.53	22.6	0.24	3.3	0.10	0.082	2.44	36.9	69.5	1.42	584	1.68	0.45	15.9	53.8
L828260		5.02	21.6	0.25	3.4	0.11	0.075	2.20	39.7	67.8	1.30	517	1.50	0.42	15.0	48.4
L828261		4.72	19.35	0.22	2.9	0.12	0.073	2.08	34.6	58.1	1.32	526	1.72	0.42	14.1	42.9
L828262		4.80	19.20	0.21	2.9	0.13	0.069	2.03	35.9	57.6	1.43	570	1.49	0.42	13.8	41.5
L828263		4.92	20.0	0.23	3.0	0.11	0.070	2.07	37.5	63.3	1.43	563	1.79	0.46	13.1	46.6
L828264		4.88	20.5	0.24	3.0	0.09	0.071	2.04	36.5	62.4	1.40	547	1.59	0.44	13.6	43.8
L828265		4.17	18.40	0.22	2.8	0.02	0.057	1.79	34.7	66.8	1.34	729	1.18	0.35	11.4	41.5
L828266		4.03	17.25	0.22	2.8	0.03	0.056	1.67	34.0	66.2	1.33	747	1.75	0.35	11.0	39.0
L828267		4.98	20.8	0.23	3.1	0.12	0.072	1.99	37.9	59.1	0.91	557	1.63	0.47	13.5	44.1
L828268		4.76	19.35	0.23	3.0	0.11	0.067	1.94	35.4	60.3	1.08	581	1.30	0.45	12.1	43.1
L828269		4.68	17.95	0.21	2.7	0.10	0.070	1.98	30.3	55.8	1.16	551	1.32	0.46	11.7	41.6
L828270		4.72	18.85	0.22	3.0	0.15	0.069	1.98	34.7	58.3	1.46	600	1.30	0.49	11.8	42.9
L828271		4.94	20.2	0.22	2.8	0.12	0.071	2.04	34.8	61.5	1.44	611	1.22	0.48	12.0	43.5
L828272		4.33	18.70	0.22	2.6	0.09	0.064	1.92	35.3	57.8	1.23	647	1.15	0.40	11.4	37.0
L828273		4.64	20.3	0.21	2.8	0.10	0.070	2.06	34.3	61.7	1.23	594	1.50	0.42	12.0	42.2
L828274		4.74	21.2	0.21	2.9	0.04	0.070	2.11	37.2	73.3	1.14	525	0.83	0.46	12.1	49.7
L828275		4.33	20.9	0.17	2.9	0.03	0.073	2.06	38.0	74.8	1.13	444	0.92	0.43	12.7	50.1
L828276		5.62	21.6	0.20	2.8	0.01	0.074	2.21	37.9	71.6	1.48	627	0.78	0.42	12.6	60.3
L828277		4.76	20.7	0.20	2.7	0.01	0.074	2.06	36.6	65.8	1.43	834	0.83	0.44	12.4	51.8
L828278		4.54	22.6	0.19	2.9	0.02	0.082	2.33	40.1	77.9	1.23	489	1.00	0.45	13.3	53.2
L828279		4.26	22.1	0.19	2.8	0.01	0.079	2.15	31.0	76.0	1.08	489	0.96	0.44	13.0	50.7
L828280		5.32	18.65	0.20	2.6	0.09	0.074	1.68	33.5	55.1	1.37	718	1.28	0.56	11.5	50.5
L828281		5.07	25.0	0.19	3.2	0.04	0.082	2.38	31.2	148.0	0.43	527	1.37	0.32	13.7	64.2

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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
L828242		780	16.2	107.5	0.002	0.03	0.89	16.3	2	2.0	129.5	0.85	0.08	9.9	0.449	0.60	
L828243		800	16.5	90.5	0.003	0.24	0.90	15.9	2	2.2	146.5	0.87	0.08	8.9	0.461	0.66	
L828244		800	16.4	108.5	0.003	0.34	0.87	16.1	2	2.1	153.0	0.84	0.08	9.7	0.470	0.66	
L828245		820	15.6	97.1	0.002	0.55	0.76	14.8	2	2.0	170.0	0.80	0.09	8.8	0.441	0.59	
L828246		730	14.6	97.3	0.003	0.51	0.73	14.0	2	1.9	196.0	0.77	0.08	8.7	0.425	0.60	
L828247		860	16.4	107.5	0.003	0.58	0.81	15.1	2	2.1	176.5	0.82	0.08	9.7	0.439	0.65	
L828248		800	15.8	111.5	0.003	0.59	0.81	16.3	2	2.0	180.5	0.83	0.08	9.7	0.445	0.63	
L828249		790	15.5	113.0	0.003	0.46	0.82	17.9	2	2.1	151.5	0.83	0.08	9.8	0.487	0.65	
L828250		770	16.7	116.5	0.003	0.47	0.80	16.0	2	2.1	167.0	0.83	0.08	9.9	0.452	0.66	
L828251		940	19.7	138.5	0.002	1.44	0.85	16.7	2	2.7	262	1.08	0.08	11.1	0.458	1.73	
L828252		890	17.5	142.5	0.002	1.25	0.75	16.6	2	2.7	224	1.03	0.07	11.4	0.457	1.58	
L828253		810	21.8	126.0	0.002	2.46	1.18	16.6	2	2.7	260	1.03	0.07	10.5	0.440	3.06	
L828254		900	19.9	120.5	0.002	2.36	1.17	16.1	2	2.5	282	1.06	0.07	10.6	0.439	3.34	
L828255		880	17.1	96.9	0.002	2.28	1.07	13.2	3	2.0	248	0.93	0.07	8.9	0.365	2.44	
L828256		880	18.1	117.5	0.002	0.03	0.98	17.6	2	2.2	101.5	0.88	0.09	10.3	0.460	0.69	
L828257		880	18.3	117.0	0.004	0.08	0.93	17.5	2	2.3	144.5	0.94	0.09	10.5	0.468	0.73	
L828258		840	17.5	108.0	0.003	0.29	0.91	16.7	2	2.2	178.5	0.94	0.09	9.7	0.462	0.65	
L828259		990	19.2	108.0	0.003	0.89	1.03	17.7	2	2.6	183.5	1.09	0.10	10.3	0.529	0.80	
L828260		890	17.9	131.5	0.003	0.79	0.92	18.2	3	2.4	172.5	1.01	0.09	10.8	0.478	0.75	
L828261		860	16.6	99.8	0.005	0.65	0.98	15.3	2	2.2	202	0.96	0.09	9.4	0.455	0.68	
L828262		830	16.8	111.0	0.004	0.63	0.89	15.7	2	2.2	184.5	0.95	0.09	9.7	0.450	0.65	
L828263		800	20.1	117.5	0.003	0.76	1.05	16.6	3	2.3	167.0	0.93	0.08	10.3	0.465	0.68	
L828264		820	16.7	117.0	0.003	0.54	0.89	16.3	2	2.2	182.0	0.94	0.08	10.4	0.452	0.66	
L828265		830	17.1	109.5	0.002	0.26	0.68	14.1	2	2.1	159.5	0.82	0.05	10.0	0.390	0.59	
L828266		820	17.3	103.5	<0.002	0.26	0.66	13.3	2	2.0	158.5	0.77	0.05	9.5	0.374	0.56	
L828267		890	18.2	118.0	0.003	0.02	0.96	17.0	2	2.2	125.0	0.94	0.09	10.6	0.460	0.70	
L828268		800	16.8	114.5	0.004	0.12	0.86	15.9	2	2.2	187.0	0.83	0.08	10.2	0.432	0.66	
L828269		810	17.4	85.5	0.003	0.16	0.89	14.8	2	2.2	168.0	0.83	0.08	8.9	0.435	0.65	
L828270		770	16.7	107.5	0.004	0.40	0.83	16.5	2	2.1	198.5	0.83	0.08	9.7	0.451	0.64	
L828271		800	17.0	101.5	0.003	0.47	0.83	16.6	2	2.3	168.5	0.86	0.09	9.9	0.450	0.66	
L828272		650	15.8	109.5	0.003	0.39	0.72	14.6	2	2.1	176.5	0.83	0.07	10.3	0.394	0.59	
L828273		740	17.0	97.6	0.003	0.43	0.80	15.4	2	2.3	160.0	0.87	0.07	9.9	0.426	0.65	
L828274		820	32.5	131.0	<0.002	1.51	1.18	16.9	2	2.5	150.5	0.88	0.06	10.9	0.435	0.74	
L828275		720	23.6	113.5	0.002	0.93	0.89	16.3	2	2.6	137.0	0.85	0.06	12.1	0.432	0.74	
L828276		750	13.4	121.5	<0.002	0.26	0.54	16.6	2	2.7	107.5	0.84	0.05	12.6	0.449	0.75	
L828277		710	16.8	114.5	<0.002	0.26	0.56	16.0	2	2.5	103.0	0.82	0.06	11.5	0.422	0.67	
L828278		730	17.5	128.5	0.002	0.32	0.64	18.3	2	2.9	101.5	0.91	0.07	12.5	0.450	0.81	
L828279		690	16.5	111.0	0.002	0.27	0.60	18.7	2	2.8	95.7	0.86	0.06	11.3	0.419	0.75	
L828280		820	19.0	85.7	0.002	0.04	0.84	18.4	2	2.1	73.1	0.78	0.09	10.2	0.500	0.62	
L828281		940	22.5	131.0	0.002	0.05	0.94	20.7	2	2.9	166.0	0.96	0.07	12.9	0.484	1.04	



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Project: Rackla Gold (Rackla)

CERTIFICATE OF ANALYSIS WH12100500
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Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
L828242		2.5	143	1.3	22.4	128	106.0
L828243		2.4	155	1.3	19.1	137	97.2
L828244		2.6	152	1.3	20.6	137	105.5
L828245		2.5	141	1.2	19.7	119	96.1
L828246		2.7	136	1.1	19.6	112	95.6
L828247		2.7	143	1.2	20.0	125	101.0
L828248		2.7	146	1.3	21.6	127	105.0
L828249		2.7	160	1.2	21.5	129	107.0
L828250		2.6	150	1.3	21.1	132	105.0
L828251		2.7	159	1.5	20.7	133	103.0
L828252		2.7	157	1.5	20.6	131	101.5
L828253		2.5	149	2.2	18.2	128	102.0
L828254		2.6	151	2.3	18.5	135	104.0
L828255		2.4	142	2.2	16.0	125	86.8
L828256		2.8	157	1.3	23.5	136	104.5
L828257		2.6	165	1.4	21.6	142	101.0
L828258		2.5	161	1.3	20.7	135	99.6
L828259		2.8	190	1.6	22.1	155	115.0
L828260		2.9	169	1.4	23.4	146	119.5
L828261		2.7	172	1.3	20.5	150	100.0
L828262		2.6	154	1.3	20.5	130	99.6
L828263		2.7	156	1.3	21.6	131	105.5
L828264		2.7	153	1.3	21.8	123	103.5
L828265		2.2	107	1.3	22.7	108	97.2
L828266		2.2	101	1.3	22.9	110	97.8
L828267		2.8	158	1.3	22.7	132	106.0
L828268		2.6	137	1.2	21.6	121	107.0
L828269		2.3	142	1.2	18.8	123	95.6
L828270		2.7	144	1.2	21.6	125	104.5
L828271		2.6	145	1.3	20.3	125	97.4
L828272		2.5	120	1.3	19.9	113	88.7
L828273		2.6	135	1.3	19.6	117	93.8
L828274		2.5	129	1.4	20.6	123	101.0
L828275		2.7	131	1.4	20.3	144	102.5
L828276		2.8	139	1.4	20.0	109	100.0
L828277		2.5	127	1.3	20.2	115	100.0
L828278		2.8	142	1.4	20.6	120	101.0
L828279		2.6	134	1.4	20.2	124	99.8
L828280		2.5	164	1.1	21.0	128	92.5
L828281		3.5	176	1.6	18.5	157	111.0



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828282		0.62	<0.01	0.09	9.81	18.2	1380	2.39	0.29	0.18	0.16	86.6	18.5	107	10.15	42.4
L828283		0.68	<0.01	0.09	8.67	12.9	700	1.89	0.24	1.21	0.21	72.1	16.4	89	8.32	34.9
L828284		0.55	<0.01	0.08	8.51	13.1	700	2.09	0.27	1.02	0.18	80.7	16.5	88	9.99	34.1
L828285		0.46	<0.01	0.09	8.95	14.2	740	2.29	0.27	0.52	0.19	78.9	17.9	97	9.81	39.2
L828286		0.46	<0.01	0.07	8.75	12.8	750	2.26	0.25	0.42	0.18	80.0	17.6	95	10.10	40.3
L828287		0.71	<0.01	0.09	2.33	108	220	0.44	0.07	17.50	0.57	19.55	5.1	20	2.26	12.6
L828288		0.55	<0.01	0.19	3.86	262	480	0.73	0.11	13.70	0.85	32.7	7.4	35	3.68	19.3
L828289		0.50	<0.01	0.23	0.87	148	110	0.23	0.03	20.7	1.97	7.66	2.4	8	1.10	5.1
L828290		0.46	<0.01	0.27	1.06	151	120	0.27	0.03	20.1	1.91	9.46	2.4	9	1.35	6.0
L828291		0.58	<0.01	0.38	0.38	132	40	0.17	0.01	21.5	2.52	3.10	1.2	18	0.84	3.4
L828292		1.37	<0.01	3.73	5.33	2490	810	1.02	0.14	11.70	23.1	47.3	5.0	51	51.9	21.2
L828293		0.69	<0.01	0.22	8.20	1910	1160	1.76	0.24	0.59	0.89	75.5	17.0	92	40.5	29.3
L828294		0.80	<0.01	0.14	8.67	1370	1150	1.96	0.25	0.58	0.49	78.9	15.8	97	67.4	29.3
L828295		0.70	<0.01	0.14	8.32	522	1360	2.01	0.23	0.56	0.52	77.7	15.5	88	36.8	28.4
L828296		0.75	<0.01	0.07	7.63	263	1070	2.01	0.23	0.37	0.13	80.7	15.2	87	31.0	27.0
L828297		0.54	<0.01	0.12	8.04	302	740	1.99	0.21	0.79	0.28	72.4	15.8	83	29.1	27.2
L828298		0.85	<0.01	0.11	8.10	298	740	2.05	0.23	0.58	0.22	77.0	15.8	87	32.1	28.9
L828299		0.72	<0.01	0.10	9.18	276	760	2.14	0.25	0.41	0.14	83.9	17.8	98	37.5	31.0
L828300		0.68	<0.01	0.09	8.59	295	870	2.30	0.26	0.37	0.15	78.4	18.5	92	38.9	33.3
L828301		0.65	<0.01	0.08	8.58	338	640	2.15	0.24	0.46	0.13	78.4	16.8	93	50.8	30.8
L828302		0.61	<0.01	0.08	9.27	270	740	2.33	0.26	0.43	0.11	85.1	17.8	97	59.3	30.1
L828303		0.64	<0.01	0.07	9.11	118.5	690	2.35	0.25	0.45	0.11	75.1	17.7	93	46.3	31.4
L828304		0.62	<0.01	0.09	8.40	193.5	770	2.17	0.23	0.61	0.18	77.0	16.4	88	55.4	28.2
L828305		0.53	<0.01	0.06	9.28	1075	1270	2.16	0.30	0.32	0.12	83.8	18.6	97	18.10	36.7
L828306		0.48	<0.01	0.13	9.44	796	2530	2.40	0.30	0.27	0.13	85.8	19.3	104	17.95	39.5
L828307		0.75	<0.01	0.12	9.36	1170	950	2.33	0.29	0.28	0.15	83.4	19.0	106	17.35	41.7
L828308		0.53	<0.01	0.12	8.89	45.2	700	2.21	0.28	0.34	0.13	83.4	21.1	98	16.45	35.2
L828309		0.62	<0.01	0.07	8.90	33.1	680	2.39	0.26	0.43	0.12	78.7	18.5	89	16.50	30.6
L828310		0.66	<0.01	0.08	8.53	39.9	610	2.32	0.26	0.48	0.10	77.3	17.7	89	16.80	31.2
L828311		0.89	<0.01	0.13	8.94	40.0	660	2.38	0.28	0.52	0.12	70.4	20.1	92	16.95	34.6
L828312		0.57	<0.01	0.11	9.01	32.4	660	2.32	0.28	0.55	0.13	67.6	19.4	92	16.90	36.1
L828313		0.52	<0.01	0.13	9.32	26.7	680	2.41	0.29	0.55	0.13	76.1	20.4	94	17.45	36.2
L828314		0.53	<0.01	0.15	7.72	1720	730	2.03	0.26	0.34	0.47	60.0	16.8	91	11.85	33.5
L828315		0.78	<0.01	0.14	9.28	1245	810	2.30	0.29	0.27	0.20	73.6	19.4	102	13.20	39.3
L828316		0.94	<0.01	0.14	9.54	1705	780	2.18	0.28	0.28	0.19	76.5	19.9	104	11.95	39.7
L828317		0.66	<0.01	0.14	9.18	216	850	2.11	0.28	0.29	0.22	79.4	20.2	99	11.15	38.8
L828318		0.77	<0.01	0.15	8.81	99.5	690	2.19	0.28	0.47	0.21	77.0	21.6	89	10.90	38.4
L828319		0.67	<0.01	0.14	8.95	60.6	1010	2.19	0.25	1.65	0.21	72.2	19.9	83	11.20	38.2
L828320		0.76	<0.01	0.16	9.29	69.6	990	2.34	0.28	0.93	0.19	72.2	21.2	88	11.00	40.1
L828321		0.67	<0.01	0.12	8.12	147.5	1150	1.73	0.23	1.87	0.27	66.4	17.3	79	8.19	35.6



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828282		4.64	25.6	0.19	3.3	0.04	0.085	2.31	43.9	161.5	0.45	351	1.40	0.28	13.9	61.8
L828283		4.75	21.9	0.19	2.9	0.03	0.078	2.19	36.9	97.1	1.30	696	2.25	0.31	12.4	55.8
L828284		4.52	22.9	0.19	3.0	0.04	0.077	2.33	39.6	93.1	1.20	504	2.42	0.32	12.1	55.0
L828285		4.54	24.4	0.20	3.1	0.03	0.079	2.55	40.1	89.0	1.20	367	2.05	0.32	14.1	60.1
L828286		4.39	24.0	0.20	3.1	0.03	0.075	2.57	40.7	97.5	1.18	351	1.87	0.31	13.7	60.2
L828287		1.23	5.66	0.08	0.8	1.08	0.020	0.61	10.0	14.2	8.37	261	0.76	0.13	3.6	13.7
L828288		2.09	8.92	0.11	1.3	2.07	0.035	1.00	16.9	24.9	6.45	308	1.01	0.20	5.7	22.9
L828289		0.51	2.19	0.07	0.3	3.96	0.009	0.23	3.9	5.7	9.57	280	0.28	0.05	1.5	4.7
L828290		0.60	2.55	0.07	0.4	3.17	0.011	0.29	4.9	7.2	9.15	274	0.36	0.06	1.8	5.1
L828291		0.37	1.06	0.10	0.1	3.63	<0.005	0.11	1.6	2.6	10.95	297	2.88	0.02	0.7	1.3
L828292		2.53	12.70	0.12	1.9	21.5	0.044	1.52	23.9	24.4	5.10	497	1.41	0.09	9.6	18.1
L828293		4.59	20.7	0.18	2.8	0.87	0.074	2.55	36.5	113.0	0.44	448	1.19	0.14	12.1	54.2
L828294		4.51	22.8	0.19	3.2	0.71	0.082	2.75	38.5	113.0	0.39	429	1.17	0.14	14.7	49.1
L828295		4.26	21.9	0.19	2.9	0.56	0.072	2.59	39.3	115.0	0.99	305	0.73	0.14	13.2	51.0
L828296		4.28	21.4	0.20	2.8	0.08	0.070	2.60	38.3	114.5	1.00	420	0.76	0.14	12.2	48.7
L828297		4.47	20.5	0.19	2.8	0.26	0.071	2.49	36.1	128.0	1.05	672	0.98	0.15	12.4	48.6
L828298		4.46	21.3	0.19	3.0	0.17	0.072	2.53	39.4	135.5	1.05	579	1.21	0.15	12.4	49.6
L828299		4.92	23.9	0.23	3.0	0.09	0.081	2.86	42.4	156.0	1.04	573	0.85	0.21	13.3	55.8
L828300		4.54	23.8	0.19	2.9	0.07	0.079	2.73	38.7	157.5	0.84	476	0.93	0.20	12.9	56.5
L828301		4.70	22.4	0.20	2.9	0.06	0.078	2.63	39.3	145.0	0.85	493	0.91	0.18	12.6	52.2
L828302		4.78	24.6	0.20	3.0	0.06	0.075	2.89	43.1	147.5	1.05	460	0.89	0.19	12.8	54.0
L828303		4.65	23.3	0.20	2.8	0.07	0.073	2.85	38.0	141.0	1.12	411	0.80	0.18	12.6	54.5
L828304		4.36	21.9	0.19	2.9	0.15	0.072	2.61	38.9	129.5	1.09	465	0.78	0.16	12.0	50.4
L828305		4.47	23.1	0.20	2.9	0.05	0.081	2.51	43.9	97.5	0.62	462	1.20	0.35	12.3	54.7
L828306		4.43	25.1	0.16	3.1	0.03	0.097	2.71	40.1	97.8	0.52	360	1.77	0.34	12.6	63.1
L828307		4.88	25.7	0.18	3.2	0.03	0.095	2.60	38.6	94.4	0.55	547	1.71	0.34	12.9	66.0
L828308		4.85	24.6	0.18	2.9	0.03	0.090	2.49	39.7	84.3	0.83	560	1.53	0.36	12.2	70.4
L828309		4.01	24.1	0.19	3.0	0.03	0.078	2.41	40.2	91.1	0.85	491	1.46	0.35	13.2	57.5
L828310		4.85	23.1	0.20	3.0	0.04	0.074	2.43	39.0	91.3	1.18	405	1.57	0.30	12.5	59.4
L828311		4.54	25.9	0.21	2.8	0.03	0.080	2.72	35.0	99.5	1.17	402	1.77	0.32	13.3	63.5
L828312		4.47	25.5	0.21	2.8	0.03	0.079	2.77	33.3	98.7	1.15	387	1.40	0.30	12.6	60.7
L828313		4.69	26.1	0.22	2.9	0.03	0.082	2.80	38.8	103.0	1.18	368	1.35	0.31	13.5	62.4
L828314		4.88	22.7	0.22	2.8	0.29	0.077	2.17	28.9	80.2	0.75	680	1.61	0.33	13.1	52.1
L828315		4.90	25.4	0.22	2.9	0.07	0.082	2.46	36.4	110.5	0.45	487	1.67	0.30	13.2	64.4
L828316		5.41	26.1	0.24	2.8	0.04	0.088	2.55	37.7	121.0	0.40	737	1.86	0.28	13.0	67.5
L828317		4.77	26.0	0.24	3.0	0.04	0.082	2.51	40.3	106.0	0.76	286	2.24	0.29	13.8	63.3
L828318		4.96	25.1	0.26	3.0	0.04	0.084	2.39	38.9	100.0	0.94	468	2.32	0.28	13.2	69.5
L828319		4.78	24.3	0.23	2.7	0.04	0.077	2.40	36.8	106.5	1.39	912	1.84	0.28	11.9	62.6
L828320		4.85	26.5	0.23	2.7	0.05	0.081	2.49	35.8	107.0	1.22	498	2.49	0.29	13.0	67.8
L828321		4.93	21.3	0.22	2.5	0.05	0.075	1.96	33.7	87.7	1.54	798	1.48	0.23	11.2	56.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828282		820	18.5	127.5	0.002	0.48	0.83	20.8	2	3.1	311	0.97	0.07	14.0	0.501	0.92
L828283		960	19.5	116.0	0.002	1.53	0.82	18.6	2	2.5	134.5	0.82	0.06	11.8	0.449	0.84
L828284		1090	21.8	124.0	0.002	1.78	0.70	20.1	2	2.6	137.0	0.88	0.07	13.3	0.433	1.00
L828285		990	19.8	142.5	0.002	1.47	0.87	20.0	2	2.8	126.0	0.92	0.07	13.6	0.479	1.07
L828286		930	16.5	145.0	0.002	1.39	0.88	20.0	2	2.8	118.5	0.91	0.06	12.9	0.473	1.08
L828287		260	21.8	29.8	0.002	0.01	0.79	4.6	1	0.7	148.0	0.23	<0.05	3.2	0.119	1.62
L828288		390	27.7	48.7	0.002	0.02	1.37	7.2	1	1.1	146.5	0.37	<0.05	5.2	0.195	4.04
L828289		90	60.2	11.1	<0.002	0.02	2.27	1.8	1	0.3	146.0	0.09	<0.05	1.2	0.043	3.65
L828290		120	60.1	14.4	<0.002	0.01	2.46	2.1	1	0.4	150.5	0.10	<0.05	1.5	0.053	3.21
L828291		50	54.4	5.3	<0.002	0.01	2.52	0.8	1	0.2	152.0	<0.05	<0.05	0.5	0.015	3.67
L828292		570	876	78.8	0.003	0.03	15.55	8.7	2	1.6	386	0.62	<0.05	7.1	0.276	67.6
L828293		790	40.5	127.5	0.002	0.04	1.86	16.1	1	2.6	106.5	0.86	0.05	12.4	0.421	23.2
L828294		720	20.1	144.0	0.003	0.05	1.53	17.5	2	3.0	117.5	1.01	0.07	12.9	0.467	25.3
L828295		730	24.0	134.5	0.002	0.07	0.79	16.6	2	2.7	121.5	0.89	0.06	12.5	0.448	13.60
L828296		700	10.2	129.5	<0.002	0.08	0.50	18.2	1	2.6	100.5	0.85	0.05	13.3	0.423	9.08
L828297		720	20.5	130.0	0.002	0.18	0.74	16.2	2	2.5	93.1	0.84	0.05	11.6	0.426	9.63
L828298		710	16.5	130.0	<0.002	0.10	0.70	16.6	2	2.7	95.8	0.88	0.06	12.6	0.438	8.83
L828299		790	18.1	152.0	<0.002	0.34	0.72	18.9	2	3.0	111.5	0.91	0.06	12.7	0.464	4.66
L828300		780	20.5	146.5	<0.002	0.46	0.72	19.2	2	2.8	105.0	0.88	0.06	12.9	0.437	5.07
L828301		850	26.3	142.0	0.002	0.70	0.84	18.7	2	2.7	117.5	0.89	0.05	12.4	0.430	3.15
L828302		820	21.2	155.5	<0.002	0.66	0.74	19.1	2	2.9	113.5	0.91	0.05	13.8	0.461	3.30
L828303		740	21.4	149.5	0.002	0.92	0.76	18.6	2	2.8	111.0	0.85	0.05	12.8	0.456	2.01
L828304		760	20.5	137.0	<0.002	0.57	0.70	17.4	1	2.7	101.0	0.88	0.05	12.4	0.423	2.89
L828305		780	14.3	168.0	<0.002	0.02	0.75	19.1	1	2.9	103.0	0.83	0.06	12.4	0.471	1.15
L828306		770	20.7	181.5	0.003	0.07	0.97	18.8	2	3.1	112.5	1.02	0.07	13.1	0.485	1.20
L828307		820	14.8	167.5	0.003	0.03	0.87	20.1	2	2.9	109.0	1.05	0.10	12.7	0.493	1.09
L828308		800	21.2	166.0	0.002	1.13	0.83	18.5	2	2.8	102.0	0.98	0.07	12.7	0.456	1.06
L828309		810	20.8	145.0	0.002	1.31	0.76	20.4	2	2.8	94.2	0.89	0.06	13.1	0.447	0.95
L828310		770	21.8	141.5	0.002	1.67	0.74	19.7	2	2.7	91.1	0.87	0.06	13.0	0.437	0.98
L828311		860	22.0	163.0	0.002	1.77	0.69	19.4	2	2.6	93.8	0.85	0.05	11.9	0.453	1.02
L828312		890	21.6	159.5	<0.002	1.78	0.63	18.6	2	2.6	93.2	0.85	0.05	11.3	0.440	1.08
L828313		880	21.6	176.5	<0.002	1.85	0.67	19.6	2	2.7	101.0	0.89	0.06	12.4	0.460	1.07
L828314		860	25.8	121.5	0.002	0.05	0.90	17.0	2	2.4	88.5	0.87	0.06	9.9	0.438	14.10
L828315		900	23.0	151.5	0.002	0.04	0.88	19.7	2	2.5	152.0	0.87	0.05	12.3	0.459	4.05
L828316		860	22.5	153.0	0.002	0.03	1.00	20.0	2	2.5	157.5	0.85	0.06	12.2	0.456	2.24
L828317		940	20.5	154.0	0.002	1.28	0.78	19.6	2	2.6	161.5	0.90	0.06	12.4	0.470	1.13
L828318		940	24.3	147.0	0.002	1.68	0.85	19.1	2	2.6	152.5	0.89	0.05	12.2	0.444	1.07
L828319		1100	23.3	139.0	0.002	2.09	0.76	19.2	2	2.4	303	0.80	0.05	11.4	0.426	1.02
L828320		1180	27.7	140.0	0.002	2.20	0.86	19.3	2	2.7	321	0.81	0.06	11.6	0.430	1.08
L828321		1020	20.0	115.5	0.002	1.80	0.67	17.4	2	2.2	351	0.74	0.05	10.5	0.391	1.02





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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
L828282		3.4	185	1.7	18.2	158	113.5
L828283		3.1	165	1.4	19.9	177	106.0
L828284		3.5	164	1.5	21.7	158	97.4
L828285		3.7	183	1.5	21.6	156	110.5
L828286		3.5	182	1.5	21.1	149	108.5
L828287		2.1	42	0.6	6.4	95	28.9
L828288		2.4	67	0.9	9.9	271	47.2
L828289		1.9	17	0.7	2.8	220	11.8
L828290		1.9	21	0.8	3.5	217	14.1
L828291		1.3	9	0.6	1.3	236	4.8
L828292		3.4	101	5.6	13.6	2090	69.1
L828293		3.3	131	1.9	21.0	468	97.2
L828294		3.3	152	1.8	20.6	643	112.0
L828295		2.7	131	1.5	21.0	308	105.5
L828296		2.7	129	1.4	21.5	212	97.7
L828297		2.7	125	1.4	20.6	245	100.0
L828298		2.8	128	1.5	20.1	252	100.5
L828299		2.9	147	1.5	21.1	128	104.5
L828300		2.9	144	1.5	20.9	127	101.5
L828301		2.7	137	1.4	20.8	138	98.8
L828302		2.9	151	1.5	20.8	115	101.5
L828303		2.8	147	1.5	19.9	125	99.6
L828304		2.7	133	1.5	20.1	136	94.6
L828305		3.1	179	1.4	22.2	146	101.5
L828306		4.0	188	1.6	23.1	135	112.0
L828307		4.0	186	1.7	22.7	156	113.5
L828308		3.2	167	1.6	22.6	154	106.5
L828309		3.0	161	1.5	21.2	137	105.5
L828310		3.0	160	1.5	19.9	126	99.4
L828311		2.9	172	1.5	20.3	146	101.5
L828312		2.8	171	1.5	18.6	145	94.3
L828313		3.0	173	1.6	20.8	144	104.0
L828314		4.1	157	1.5	17.1	221	96.4
L828315		4.0	181	1.5	20.5	164	104.5
L828316		4.2	189	1.5	20.3	173	103.5
L828317		3.3	186	1.6	21.1	173	109.5
L828318		3.3	172	1.6	21.1	173	104.5
L828319		3.2	168	1.4	20.6	163	93.7
L828320		3.2	174	1.4	21.2	149	100.5
L828321		2.8	151	1.3	18.0	209	89.8



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**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828322		0.64	<0.01	0.13	8.15	314	1050	1.71	0.24	1.62	0.27	67.0	17.5	82	8.53	34.4
L828323		0.45	<0.01	0.17	6.06	352	970	1.46	0.18	0.30	0.33	54.7	18.3	77	4.03	33.8
L828324		0.82	<0.01	0.27	6.62	237	880	1.62	0.22	0.48	0.44	62.0	18.6	81	5.77	37.8
L828325		0.99	<0.01	0.22	5.96	218	750	1.47	0.21	0.67	0.40	55.9	16.9	76	4.93	36.0
L828326		1.09	<0.01	0.13	6.81	122.5	2770	1.66	0.24	2.06	0.36	66.6	17.6	76	5.91	47.2
L828327		1.01	<0.01	0.18	6.36	54.3	690	1.53	0.23	2.38	0.29	66.4	17.8	69	5.44	42.6
L828328		1.31	<0.01	0.18	8.00	42.9	730	1.99	0.27	1.84	0.21	71.8	19.2	85	8.22	42.5
L828329		1.03	<0.01	0.14	8.61	32.1	750	2.11	0.27	1.04	0.18	74.3	20.0	90	9.03	39.3
L828330		0.89	<0.01	0.15	8.96	33.8	750	2.18	0.27	0.57	0.20	76.7	20.6	92	10.00	35.9
L828331		0.98	<0.01	0.14	8.96	26.9	750	2.19	0.28	0.61	0.15	72.2	20.3	96	9.65	32.8
L828332		0.83	<0.01	0.18	7.63	68.8	740	1.91	0.25	1.12	0.19	67.4	17.6	84	7.82	37.7
L828333		0.86	<0.01	0.14	8.87	27.5	750	2.11	0.27	0.93	0.19	77.4	18.8	91	9.63	35.5
L828334		0.70	<0.01	0.20	6.61	21.4	680	1.51	0.25	1.83	0.39	62.3	19.7	74	4.30	55.5
L828335		0.76	<0.01	0.21	7.04	20.3	710	1.62	0.24	3.05	0.33	71.1	18.4	74	5.61	48.9
L828336		0.73	<0.01	0.22	6.70	21.1	820	1.50	0.23	4.30	0.31	64.8	17.3	70	6.01	45.9
L828337		0.57	<0.01	0.14	9.03	17.4	620	2.28	0.27	1.28	0.14	80.2	20.0	95	8.74	34.2
L828338		0.79	<0.01	0.10	8.98	14.1	540	2.19	0.26	0.70	0.09	77.4	18.9	93	8.34	34.8
L828339		0.73	<0.01	0.11	8.87	13.4	530	2.30	0.26	1.05	0.13	78.3	18.6	92	8.24	29.0
L828340		0.76	<0.01	0.11	8.32	12.0	460	1.96	0.23	0.97	0.12	74.3	17.8	87	7.20	25.6
L828341		0.77	<0.01	0.11	8.38	11.9	480	2.02	0.24	0.75	0.09	71.7	17.8	88	7.31	30.1
L828342		0.67	<0.01	0.12	9.48	13.9	600	2.51	0.29	0.38	0.09	60.8	20.2	98	8.63	32.2
L828343		0.81	<0.01	0.11	9.40	14.2	570	2.52	0.29	0.36	0.12	67.2	20.2	98	8.68	33.8



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 Finalized Date: 22- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828322		4.83	21.2	0.21	2.6	0.10	0.074	1.94	34.1	91.3	1.43	614	1.52	0.23	11.5	56.7
L828323		4.99	17.20	0.20	2.2	0.05	0.064	1.56	27.4	67.8	1.02	881	1.38	0.42	8.8	49.5
L828324		4.47	17.95	0.19	2.5	0.17	0.064	1.74	31.2	65.9	0.96	528	1.73	0.42	10.8	50.9
L828325		4.34	16.50	0.18	2.3	0.22	0.061	1.59	28.5	60.7	0.96	460	1.33	0.40	10.2	47.1
L828326		4.86	17.20	0.12	2.3	0.10	0.064	1.83	34.7	54.9	1.09	600	1.34	0.48	11.9	49.1
L828327		4.76	17.05	0.21	2.6	0.09	0.061	1.68	33.7	57.9	1.19	589	1.35	0.50	13.1	45.4
L828328		4.84	21.8	0.22	2.8	0.08	0.073	2.24	36.4	72.1	1.29	589	1.38	0.44	13.9	54.0
L828329		4.79	24.0	0.23	2.8	0.04	0.074	2.35	37.6	81.0	1.31	637	1.46	0.42	13.5	60.0
L828330		4.95	25.4	0.24	3.0	0.04	0.084	2.51	38.4	84.7	1.22	484	1.90	0.40	14.0	63.9
L828331		4.96	25.2	0.22	2.9	0.04	0.079	2.59	35.8	83.5	1.26	556	2.13	0.38	13.2	64.6
L828332		4.57	20.4	0.20	2.6	0.12	0.069	2.07	35.0	72.0	1.19	557	1.35	0.41	11.8	52.1
L828333		4.83	24.1	0.22	2.9	0.03	0.079	2.45	39.8	83.9	1.29	621	1.41	0.43	12.9	58.3
L828334		5.16	17.85	0.20	2.5	0.09	0.070	1.68	31.3	61.8	1.28	590	1.45	0.61	11.6	48.0
L828335		4.82	18.75	0.22	2.7	0.11	0.068	1.90	35.7	65.6	1.13	631	1.35	0.51	12.8	47.0
L828336		4.85	17.85	0.20	2.5	0.12	0.066	1.83	33.1	59.2	1.37	559	1.35	0.48	12.6	45.2
L828337		4.83	25.0	0.23	2.8	0.04	0.078	2.45	39.7	83.2	1.39	660	0.99	0.46	13.6	56.5
L828338		4.79	23.9	0.20	2.8	0.02	0.073	2.38	39.0	86.7	1.30	559	0.82	0.44	12.8	54.7
L828339		4.74	23.7	0.21	2.7	0.02	0.074	2.43	39.1	84.6	1.31	579	0.80	0.43	12.7	53.5
L828340		4.97	21.5	0.20	2.7	0.02	0.063	2.17	37.2	82.0	1.35	878	0.86	0.44	11.9	52.1
L828341		4.60	22.3	0.19	2.7	0.02	0.070	2.25	35.8	84.3	1.28	706	0.78	0.43	12.1	52.1
L828342		4.80	25.7	0.20	2.8	0.03	0.081	2.65	28.0	92.1	1.23	408	0.92	0.48	12.8	60.0
L828343		4.84	25.9	0.20	2.8	0.03	0.082	2.63	31.5	91.3	1.25	406	0.95	0.48	13.1	60.9



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828322		960	21.7	115.5	0.002	1.58	0.72	17.2	2	2.2	352	0.76	0.05	10.9	0.401	1.97
L828323		720	14.6	88.1	0.003	0.05	0.60	13.9	2	1.7	74.0	0.58	0.05	8.6	0.336	0.60
L828324		780	17.3	105.0	0.004	0.09	0.72	14.7	3	1.9	75.7	0.70	0.06	9.2	0.383	0.75
L828325		810	15.2	90.1	0.004	0.08	0.64	13.6	3	1.7	76.5	0.66	0.05	8.4	0.360	0.64
L828326		880	18.8	97.2	0.004	0.27	0.83	16.7	2	2.1	144.0	0.83	0.06	10.2	0.446	0.59
L828327		830	18.0	90.9	0.003	0.47	0.74	14.4	2	1.9	135.5	0.87	0.06	10.3	0.450	0.56
L828328		890	19.9	125.0	0.002	0.93	0.73	17.1	2	2.3	132.5	0.90	0.06	11.3	0.474	0.80
L828329		890	19.7	138.0	0.002	1.27	0.74	18.5	2	2.5	104.5	0.86	0.05	11.7	0.456	0.90
L828330		870	21.8	154.5	0.002	1.84	0.76	19.0	2	2.7	99.9	0.86	0.06	11.8	0.459	1.00
L828331		800	20.5	151.0	0.002	1.81	0.74	18.5	2	2.6	96.5	0.86	0.07	11.4	0.455	1.05
L828332		820	18.4	125.5	0.002	1.07	0.64	16.2	2	2.4	108.5	0.78	0.06	10.9	0.409	0.79
L828333		930	19.6	148.5	0.002	1.58	0.66	18.4	2	2.5	102.0	0.88	0.05	12.2	0.444	0.97
L828334		830	17.3	88.4	0.002	0.06	0.75	17.0	2	1.8	106.0	0.77	0.08	9.2	0.457	0.56
L828335		880	17.8	102.0	0.003	0.08	0.73	16.3	2	2.0	155.5	0.84	0.07	10.4	0.458	0.64
L828336		840	17.6	99.6	0.003	0.55	0.75	15.3	2	1.9	253	0.83	0.06	9.8	0.434	0.64
L828337		780	19.4	146.0	0.002	0.87	0.66	18.5	2	2.7	116.5	0.88	0.05	12.2	0.443	0.92
L828338		720	17.7	148.5	<0.002	0.93	0.56	17.6	2	2.7	94.5	0.86	<0.05	12.2	0.432	0.87
L828339		720	16.5	144.0	<0.002	0.91	0.54	17.3	2	2.6	101.5	0.85	0.05	11.7	0.431	0.87
L828340		690	18.0	129.5	<0.002	0.97	0.57	15.8	1	2.4	90.0	0.79	<0.05	11.1	0.409	0.79
L828341		710	17.7	129.0	<0.002	0.90	0.57	16.1	1	2.4	90.4	0.83	0.05	11.4	0.420	0.81
L828342		710	23.9	131.0	<0.002	1.31	0.70	18.5	2	2.9	102.0	0.86	0.05	10.1	0.443	1.03
L828343		690	23.2	137.0	<0.002	1.33	0.68	18.2	2	2.8	100.5	0.86	0.05	10.7	0.441	1.02



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
L828322		3.0	155	1.3	17.9	205	93.9
L828323		2.5	128	1.0	16.4	129	78.2
L828324		3.1	144	1.2	19.3	141	89.3
L828325		2.7	128	1.1	18.5	132	81.2
L828326		2.6	136	1.3	20.8	128	93.9
L828327		2.6	122	1.4	19.9	114	94.4
L828328		2.8	154	1.5	20.8	129	102.0
L828329		2.9	163	1.4	21.4	139	103.5
L828330		3.0	174	1.5	21.9	170	110.5
L828331		2.9	181	1.5	19.7	149	104.0
L828332		2.8	146	1.4	19.4	127	94.3
L828333		3.0	167	1.5	20.7	171	103.0
L828334		2.4	147	1.2	20.4	141	88.0
L828335		2.6	139	1.3	21.2	137	98.6
L828336		2.6	132	1.3	20.0	116	92.1
L828337		2.8	152	1.5	21.5	122	104.5
L828338		2.6	146	1.5	19.8	125	98.7
L828339		2.6	146	1.4	19.4	137	97.8
L828340		2.4	134	1.3	18.9	136	95.4
L828341		2.5	137	1.4	18.8	124	94.8
L828342		2.6	163	1.4	17.3	125	97.7
L828343		2.6	160	1.5	17.9	134	98.6



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100500**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REEs may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12100502**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D  
 This report is for 81 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

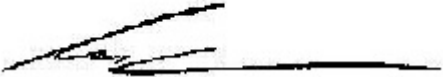
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828344		0.52	<0.01	0.18	6.19	15.7	720	1.39	0.21	4.73	0.33	57.6	16.8	67	4.41	52.1
L828345		0.84	<0.01	0.13	7.17	15.4	710	1.63	0.26	3.80	0.30	65.8	16.8	77	5.09	58.6
L828346		0.57	<0.01	0.15	6.37	15.6	680	1.53	0.18	3.83	0.27	68.7	16.1	82	6.09	42.4
L828347		0.57	<0.01	0.14	7.55	16.8	780	1.79	0.27	3.22	0.31	73.8	17.1	82	7.19	50.0
L828348		0.79	<0.01	0.13	7.67	16.3	700	1.77	0.25	2.72	0.25	72.1	14.4	86	6.74	45.9
L828349		0.78	<0.01	0.11	7.95	19.3	760	1.78	0.26	2.56	0.24	69.8	15.0	86	6.68	45.0
L828350		0.72	<0.01	0.11	8.25	14.6	700	1.89	0.28	2.32	0.20	76.3	15.8	88	6.97	43.1
L828351		0.74	<0.01	0.09	8.01	13.7	710	1.96	0.28	2.44	0.22	69.6	16.2	89	6.85	43.5
L828352		0.71	<0.01	0.10	7.51	16.3	650	1.78	0.28	3.37	0.22	74.1	14.9	89	6.82	43.5
L828353		0.63	<0.01	0.11	7.66	17.4	710	1.82	0.27	4.02	0.26	74.6	15.7	77	7.14	49.3
L828354		0.21	<0.01	0.10	7.39	16.0	660	1.76	0.25	3.95	0.26	74.3	15.1	88	6.73	46.1
L828355		0.52	<0.01	0.12	6.55	14.7	670	1.47	0.22	4.05	0.33	63.0	15.3	71	4.88	55.2
L828356		0.43	<0.01	0.11	7.83	15.3	720	1.73	0.25	3.57	0.25	68.4	16.1	81	6.49	48.6
L828357		0.84	<0.01	0.11	8.34	15.1	720	1.96	0.28	2.09	0.27	77.0	16.1	87	7.25	43.5
L828358		0.44	<0.01	0.13	7.53	14.7	670	1.83	0.23	5.94	0.25	68.9	15.5	76	6.38	44.7
L828359		0.56	<0.01	0.10	7.91	13.9	650	1.80	0.29	4.49	0.21	74.1	14.2	75	6.69	43.7
L828360		0.43	<0.01	0.08	7.42	14.7	560	1.67	0.22	3.21	0.29	62.6	13.4	92	6.54	31.3
L828361		0.64	<0.01	0.08	7.66	14.9	660	1.80	0.25	3.84	0.19	62.0	14.1	78	6.83	34.1
L828362		0.14	<0.01	0.07	6.73	11.9	490	1.32	0.18	3.49	0.22	55.3	15.7	92	5.04	46.0
L828363		0.75	<0.01	0.11	7.57	15.1	680	1.81	0.24	1.13	0.29	69.7	16.0	83	6.27	48.6
L828364		0.55	<0.01	0.10	8.29	12.1	670	2.04	0.30	2.12	0.18	77.1	14.8	80	7.32	41.6
L828365		0.55	<0.01	0.10	7.51	17.3	760	1.78	0.28	3.70	0.32	88.0	17.3	78	7.17	47.6
L828366		0.62	<0.01	0.10	6.55	18.9	560	1.47	0.23	4.48	0.27	75.2	16.5	68	5.11	46.4
L828367		0.65	<0.01	0.11	6.52	15.5	730	1.42	0.23	4.32	0.27	64.7	14.9	71	5.09	43.9
L828368		0.75	<0.01	0.24	6.91	18.6	390	1.68	0.21	2.58	0.15	73.5	13.5	69	5.73	25.3
L828369		0.58	<0.01	0.09	6.61	17.4	360	1.52	0.19	2.58	0.14	72.5	12.4	66	5.25	22.6
L828370		0.71	<0.01	0.09	7.51	20.7	420	1.92	0.25	2.71	0.17	79.1	14.9	73	6.77	25.8
L828371		0.55	<0.01	0.06	6.57	18.0	370	1.62	0.18	2.67	0.11	58.4	11.6	65	5.54	23.5
L828372		0.83	<0.01	0.05	7.41	18.6	380	1.77	0.19	2.56	0.11	60.7	11.9	74	5.99	21.6
L828373		0.66	<0.01	0.05	7.37	19.8	380	1.79	0.21	2.52	0.12	64.1	12.4	75	6.45	24.0
L828374		0.45	<0.01	0.08	8.73	31.2	660	2.13	0.28	0.39	0.18	80.1	20.4	96	7.82	39.7
L828375		0.43	<0.01	0.07	9.65	1090	580	2.26	0.30	0.32	0.11	77.8	18.3	105	8.32	35.4
L828376		0.58	<0.01	0.08	9.60	138.0	570	1.99	0.28	0.37	0.07	83.6	13.7	101	9.23	31.1
L828377		0.53	<0.01	0.06	9.24	34.0	570	2.17	0.28	0.47	0.09	76.9	15.8	94	9.01	28.4
L828378		0.42	<0.01	0.06	9.13	23.6	570	2.25	0.26	0.62	0.27	76.3	17.0	91	8.79	33.7
L828379		0.63	<0.01	0.10	9.15	19.3	570	2.38	0.27	0.55	0.11	80.4	19.3	94	8.97	37.8
L828380		0.63	<0.01	0.06	8.77	19.8	540	2.16	0.27	0.59	0.09	80.6	18.2	90	8.91	30.4
L828381		0.59	<0.01	0.11	9.12	18.6	550	2.76	0.28	1.11	0.15	80.4	21.2	91	9.64	31.4
L828382		0.69	<0.01	0.11	9.14	21.8	580	2.88	0.29	0.84	0.16	82.1	22.8	93	10.40	34.2
L828383		0.33	<0.01	0.14	8.73	51.1	720	2.47	0.25	0.33	0.30	76.7	23.7	94	12.65	39.4





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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828344		4.58	16.10	0.19	2.3	0.10	0.062	1.62	29.4	56.6	1.25	631	1.13	0.53	10.5	40.0
L828345		5.15	17.50	0.13	2.9	0.1	0.073	1.88	32.2	60.1	1.49	682	1.27	0.63	11.4	47.0
L828346		4.46	15.85	0.14	2.6	0.08	0.066	1.64	33.6	60.0	1.42	579	1.39	0.47	11.5	43.1
L828347		4.91	18.60	0.12	2.7	0.1	0.078	2.00	34.9	68.9	1.49	664	1.38	0.50	11.7	50.2
L828348		4.78	18.75	0.15	2.9	0.1	0.072	2.04	32.5	64.0	1.27	496	1.43	0.48	11.2	47.4
L828349		4.76	19.00	0.13	3.0	<0.1	0.072	2.13	33.7	73.5	1.29	562	1.50	0.49	11.8	51.3
L828350		4.93	20.0	0.15	2.8	<0.1	0.074	2.17	34.7	71.8	1.36	570	1.09	0.47	11.5	53.1
L828351		4.89	20.6	0.14	2.7	0.06	0.077	2.14	32.1	68.9	1.38	558	1.36	0.47	12.5	52.6
L828352		4.64	18.60	0.15	2.8	0.07	0.070	2.02	35.0	64.9	1.34	597	1.86	0.50	11.8	45.0
L828353		4.72	19.20	0.13	2.8	0.1	0.073	2.12	35.7	63.5	1.41	624	1.89	0.52	12.8	45.2
L828354		4.54	18.70	0.13	2.9	0.07	0.068	2.01	34.9	64.4	1.32	651	1.80	0.47	11.8	43.9
L828355		4.72	16.40	0.12	2.6	0.08	0.065	1.67	30.7	55.1	1.27	705	1.15	0.53	10.2	44.5
L828356		4.91	19.00	0.15	2.9	0.1	0.070	2.08	33.1	66.8	1.10	609	1.29	0.47	11.3	49.2
L828357		4.94	20.8	0.14	2.7	0.06	0.076	2.18	36.3	71.1	1.19	571	1.41	0.47	12.2	52.1
L828358		4.75	18.60	0.15	2.7	0.07	0.069	2.01	34.4	64.4	1.46	559	1.19	0.47	11.4	47.0
L828359		4.50	19.25	0.13	2.6	0.06	0.061	2.10	35.5	66.3	1.29	617	0.95	0.40	11.6	41.8
L828360		4.39	17.25	0.12	2.4	0.05	0.067	1.99	30.1	62.2	1.25	598	1.15	0.48	10.2	44.1
L828361		4.55	17.95	0.13	2.5	0.05	0.064	2.09	29.5	63.1	1.37	592	1.25	0.50	11.4	46.1
L828362		5.01	15.45	0.11	2.2	0.11	0.061	1.56	27.0	53.8	1.76	764	1.80	0.68	9.1	45.7
L828363		4.97	18.45	0.11	2.6	0.09	0.072	1.96	33.4	65.5	1.09	566	1.16	0.47	10.9	48.6
L828364		4.59	20.7	0.13	2.7	<0.1	0.067	2.27	35.5	66.4	0.84	554	0.89	0.42	12.6	43.5
L828365		4.51	19.10	0.14	3.0	0.10	0.076	2.08	41.0	60.0	1.14	484	1.40	0.52	12.2	45.2
L828366		4.47	16.50	0.14	2.8	0.09	0.065	1.70	35.8	52.5	1.49	621	2.53	0.57	11.3	42.6
L828367		4.54	15.55	0.12	2.7	0.09	0.054	1.72	33.1	51.3	1.45	601	1.73	0.56	10.1	38.9
L828368		3.71	16.85	0.12	2.7	0.04	0.062	1.87	34.9	50.8	1.36	550	1.15	0.70	11.1	38.9
L828369		3.54	15.60	0.11	2.7	<0.1	0.053	1.75	34.8	49.7	1.36	558	1.02	0.72	10.4	36.8
L828370		3.95	18.60	0.12	2.8	0.03	0.063	2.15	36.7	61.6	1.45	599	1.86	0.65	11.4	43.4
L828371		3.66	15.80	0.12	2.2	0.03	0.054	1.83	27.0	52.0	1.36	558	1.86	0.64	9.7	37.5
L828372		3.72	17.45	0.13	2.6	0.02	0.060	2.02	28.2	55.6	1.33	540	1.34	0.76	11.2	40.0
L828373		3.81	18.35	0.13	2.8	0.03	0.065	2.12	30.8	59.6	1.38	555	1.32	0.75	12.1	42.4
L828374		5.35	21.3	0.15	2.6	0.05	0.073	2.25	35.9	79.9	0.92	690	1.18	0.42	12.2	66.3
L828375		5.64	24.0	0.18	3.0	<0.1	0.085	2.53	36.1	80.2	1.12	428	1.53	0.41	13.0	61.7
L828376		5.13	24.3	0.16	3.0	0.03	0.083	2.46	39.0	78.7	1.12	294	1.27	0.39	12.9	55.2
L828377		4.59	23.0	0.15	3.0	0.02	0.082	2.49	37.9	76.1	1.21	291	0.78	0.41	13.3	58.9
L828378		4.81	23.0	0.16	2.8	<0.1	0.074	2.51	35.9	72.9	1.24	441	1.01	0.38	12.6	63.1
L828379		4.86	24.2	0.18	3.3	<0.1	0.085	2.46	39.9	74.3	1.27	437	1.34	0.40	13.0	69.3
L828380		4.72	23.5	0.17	3.0	0.1	0.077	2.31	41.1	69.9	1.22	505	1.24	0.38	12.2	63.5
L828381		5.04	24.4	0.16	2.9	0.03	0.082	2.41	42.3	71.2	1.42	806	1.09	0.37	12.2	61.3
L828382		5.02	25.1	0.19	3.0	0.03	0.089	2.59	41.8	71.3	1.33	665	1.24	0.38	13.3	66.4
L828383		4.72	22.5	0.18	2.7	0.06	0.077	2.26	39.5	110.5	0.57	1020	1.26	0.35	11.4	59.2

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
L828344		720	15.3	80.5	0.002	0.04	0.66	14.7	2	1.7	197.0	0.71	0.07	8.2	0.432	0.51	
L828345		900	18.2	97.2	0.003	0.06	0.80	18.7	2	2.1	153.0	0.87	0.07	10.8	0.503	0.59	
L828346		810	17.0	97.8	0.003	0.47	0.83	15.0	2	2.0	166.5	0.78	0.08	9.4	0.405	0.57	
L828347		860	18.4	111.5	0.005	0.63	0.74	18.5	2	2.2	159.5	0.86	0.09	10.6	0.474	0.70	
L828348		850	18.6	110.5	<0.002	0.51	0.75	17.8	2	2.2	146.0	0.86	0.10	10.6	0.463	0.76	
L828349		840	18.0	122.0	0.002	0.56	0.76	18.1	2	2.2	154.0	0.89	0.06	11.0	0.472	0.79	
L828350		830	19.4	118.5	<0.002	0.66	0.71	18.9	2	2.5	130.5	0.88	0.09	11.1	0.463	0.79	
L828351		810	19.3	107.0	0.002	0.60	0.73	18.6	2	2.4	136.0	0.92	0.09	11.0	0.463	0.80	
L828352		820	17.5	112.0	0.002	0.58	0.70	16.8	1	2.2	138.5	0.89	0.06	11.7	0.453	0.69	
L828353		840	19.3	108.5	0.003	0.63	0.76	16.8	2	2.2	153.5	0.91	0.10	11.3	0.472	0.68	
L828354		780	18.5	114.0	0.002	0.48	0.73	16.5	2	2.3	156.0	0.90	0.09	11.6	0.444	0.66	
L828355		860	16.4	91.0	0.002	0.05	0.73	17.7	2	1.8	158.0	0.76	0.11	9.4	0.451	0.53	
L828356		860	18.4	112.0	<0.002	0.08	0.71	17.4	2	2.1	171.0	0.85	0.08	10.8	0.476	0.71	
L828357		870	19.4	123.0	0.003	0.21	0.77	18.6	2	2.4	126.5	0.87	0.10	11.6	0.476	0.78	
L828358		790	17.1	108.5	0.002	0.49	0.72	17.5	2	2.2	207	0.81	0.09	10.2	0.445	0.64	
L828359		730	19.2	101.5	0.003	0.46	0.65	16.2	2	2.4	183.5	0.90	0.07	11.9	0.441	0.67	
L828360		1010	17.5	96.6	<0.002	0.90	0.54	14.8	2	2.1	139.0	0.78	0.06	10.0	0.408	0.72	
L828361		1030	18.9	90.7	<0.002	0.91	0.59	16.2	2	2.2	165.5	0.82	0.07	10.3	0.423	0.77	
L828362		810	15.1	82.6	<0.002	0.76	0.51	17.1	1	1.8	112.5	0.70	0.08	8.0	0.459	0.55	
L828363		810	18.5	115.0	0.002	0.05	0.73	17.4	2	2.1	102.5	0.80	0.08	10.7	0.460	0.73	
L828364		700	21.2	107.5	0.003	0.07	0.64	17.1	2	2.5	148.0	0.98	0.08	12.3	0.463	0.69	
L828365		910	18.7	125.5	0.004	0.24	0.74	16.7	2	2.3	151.0	0.85	0.08	11.7	0.458	0.71	
L828366		900	16.3	102.5	0.003	0.78	0.65	15.9	1	2.0	157.0	0.74	0.07	10.0	0.425	0.63	
L828367		800	15.9	98.0	0.002	0.57	0.60	14.7	1	1.8	145.0	0.71	0.09	9.7	0.430	0.60	
L828368		1300	16.0	112.5	0.003	1.15	0.45	13.7	1	2.1	106.5	0.76	0.06	10.3	0.406	0.78	
L828369		1340	14.9	103.5	0.002	1.18	0.43	12.5	1	2.0	105.5	0.72	0.06	10.2	0.380	0.73	
L828370		1630	17.4	130.5	0.002	1.59	0.49	14.6	1	2.3	119.0	0.78	0.06	10.9	0.413	0.94	
L828371		1440	14.9	99.7	<0.002	1.36	0.43	13.0	2	2.0	103.5	0.71	0.05	9.0	0.376	0.76	
L828372		1620	15.2	99.0	<0.002	1.43	0.41	13.7	2	2.2	105.5	0.85	0.06	9.6	0.414	0.81	
L828373		1580	16.2	107.0	<0.002	1.49	0.46	13.9	2	2.4	108.0	0.85	0.06	10.4	0.434	0.83	
L828374		1010	21.6	133.5	<0.002	0.03	0.68	18.6	2	2.4	105.5	0.88	0.07	11.9	0.477	0.93	
L828375		860	22.7	148.5	0.003	0.23	0.89	20.3	2	2.7	94.7	0.94	0.07	12.4	0.494	1.00	
L828376		900	23.3	154.5	0.002	1.36	0.76	20.7	2	2.8	101.0	0.95	0.09	13.1	0.499	0.98	
L828377		1030	15.6	151.0	<0.002	1.57	0.58	19.9	2	2.7	93.5	0.96	0.07	12.4	0.494	0.97	
L828378		940	19.7	145.0	0.002	1.88	0.70	20.1	2	2.7	88.1	0.88	0.07	11.7	0.483	0.97	
L828379		840	24.4	148.5	<0.002	2.00	0.69	18.7	1	3.0	86.1	0.91	0.07	12.8	0.460	1.13	
L828380		800	21.3	147.0	<0.002	1.95	0.64	17.7	1	2.9	84.0	0.84	0.05	12.6	0.433	1.04	
L828381		880	18.0	151.0	<0.002	1.75	0.62	21.3	3	3.0	94.0	0.89	0.07	12.1	0.452	1.01	
L828382		930	21.4	155.0	0.002	2.10	0.70	22.0	3	3.1	93.0	0.94	0.07	12.3	0.480	1.04	
L828383		960	18.6	151.5	<0.002	0.05	0.72	20.4	3	2.7	132.5	0.84	0.06	11.4	0.425	1.25	

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**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828344		2.1	133	1.1	18.1	109	81.3
L828345		2.7	152	1.3	23.8	128	103.5
L828346		2.5	130	1.2	20.6	123	91.2
L828347		2.8	149	1.3	23.6	166	92.5
L828348		2.8	153	1.3	21.7	139	99.4
L828349		2.9	155	1.3	22.4	142	98.9
L828350		2.8	154	1.3	22.9	133	89.8
L828351		2.7	152	1.4	21.7	129	93.5
L828352		2.9	133	1.3	24.7	112	97.6
L828353		2.8	137	1.3	22.5	119	97.6
L828354		2.9	128	1.3	25.2	115	100.5
L828355		2.6	136	1.1	21.7	121	85.5
L828356		2.8	151	1.3	23.1	134	112.0
L828357		2.9	150	1.4	23.3	145	96.9
L828358		2.9	139	1.3	22.1	126	95.6
L828359		2.8	126	1.3	21.1	107	89.6
L828360		2.5	120	1.2	21.2	310	80.5
L828361		2.6	124	1.3	22.4	145	89.0
L828362		2.0	138	1.6	20.0	113	73.3
L828363		2.5	146	1.2	22.4	130	90.7
L828364		2.6	130	1.5	22.2	115	95.5
L828365		3.3	132	1.3	22.5	118	101.0
L828366		3.3	118	1.1	24.4	111	85.7
L828367		3.0	126	1.1	19.5	107	84.2
L828368		3.1	110	1.2	22.4	102	86.0
L828369		3.1	104	1.1	21.8	95	86.6
L828370		3.3	117	1.3	25.2	113	83.7
L828371		2.6	103	1.2	23.9	87	79.6
L828372		2.5	114	1.3	26.3	94	91.3
L828373		2.8	119	1.4	26.4	103	96.6
L828374		3.0	155	1.4	25.0	159	92.6
L828375		3.7	175	1.6	22.9	178	102.0
L828376		3.5	174	1.6	21.8	112	102.0
L828377		3.6	163	1.5	25.0	145	103.5
L828378		3.7	164	1.5	23.3	259	101.0
L828379		3.5	170	1.4	19.7	145	94.5
L828380		3.1	159	1.3	19.8	113	88.8
L828381		3.0	162	1.6	20.9	146	96.2
L828382		3.3	174	1.6	21.6	149	104.5
L828383		3.1	169	1.4	20.7	150	90.2



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**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828384		0.44	<0.01	0.18	6.55	189.0	930	1.97	0.23	0.98	0.45	70.7	17.4	75	5.63	44.4
L828385		0.59	<0.01	0.23	6.13	487	960	1.77	0.21	0.93	0.52	61.1	13.2	71	6.45	40.8
L828386		0.03	<0.01	0.15	5.47	517	590	1.40	0.17	3.89	0.28	53.9	15.1	69	3.77	51.4
L828387		0.75	<0.01	0.14	5.40	652	500	1.47	0.16	3.66	0.34	58.0	15.6	63	3.68	47.0
L828388		0.70	<0.01	0.11	7.16	55.4	400	2.23	0.21	1.68	0.06	75.2	16.1	90	6.03	25.3
L828389		0.75	<0.01	0.11	7.92	57.9	440	2.56	0.24	1.66	0.06	76.7	16.7	87	6.72	28.4
L828390		0.66	<0.01	0.10	7.84	23.0	430	2.46	0.23	1.41	0.07	81.5	16.9	85	6.96	27.6
L828391		0.69	<0.01	0.10	8.04	27.8	490	2.59	0.24	1.42	0.07	83.3	17.2	90	7.13	26.1
L828392		0.85	<0.01	0.19	6.69	88.4	740	1.83	0.22	3.84	0.38	71.7	20.0	72	5.21	52.1
L828393		0.63	<0.01	0.19	6.35	40.4	750	1.74	0.21	3.85	0.37	68.0	18.7	68	5.08	48.5
L828394		0.87	<0.01	0.15	6.87	43.1	500	2.00	0.20	2.67	0.19	70.8	17.9	72	5.52	35.9
L828395		0.65	<0.01	0.12	6.58	24.6	390	2.02	0.18	2.77	0.11	65.3	16.0	68	5.11	23.9
L828396		0.80	<0.01	0.10	6.24	9.1	310	1.87	0.17	3.21	0.13	61.5	13.7	64	4.50	24.0
L828397		0.80	<0.01	0.11	6.92	13.4	400	2.31	0.20	2.83	0.10	60.0	16.9	73	5.77	31.1
L828398		0.82	<0.01	0.08	7.20	10.9	420	2.26	0.20	1.86	0.14	67.9	17.3	73	6.27	28.3
L828399		0.83	<0.01	0.10	6.79	9.4	390	1.98	0.18	1.96	0.14	61.8	17.6	70	5.20	31.5
L828400		1.03	<0.01	0.14	6.39	68.8	480	1.83	0.18	2.36	0.20	60.4	17.1	68	4.93	33.5
L828401		1.05	<0.01	0.14	6.09	44.9	470	1.84	0.17	4.27	0.24	61.4	15.6	62	4.88	31.6
L828402		1.11	<0.01	0.09	7.77	13.0	430	2.69	0.22	1.63	0.08	77.0	16.6	78	6.90	26.5
L828403		0.69	<0.01	0.17	6.08	13.7	530	1.67	0.21	2.26	0.36	63.6	19.9	65	3.96	55.2
L828404		0.82	<0.01	0.20	7.36	15.4	810	2.08	0.24	2.73	0.30	74.6	19.7	78	6.51	46.8
L828405		0.67	<0.01	0.18	7.18	14.1	700	1.98	0.23	3.97	0.34	71.5	19.7	73	6.60	48.2
L828406		0.65	<0.01	0.16	8.09	11.1	600	2.42	0.33	2.97	0.22	84.6	19.4	80	7.48	48.2
L828407		0.54	<0.01	0.16	8.40	12.5	640	2.43	0.31	2.73	0.25	89.0	19.9	81	7.89	45.2
L828408		0.69	<0.01	0.20	7.48	15.0	720	2.28	0.26	3.37	0.32	76.2	20.5	79	7.40	51.3
L828409		0.79	<0.01	0.23	7.15	13.5	770	2.10	0.24	3.82	0.34	71.4	18.8	81	7.23	49.0
L828410		0.63	<0.01	0.16	7.86	13.3	670	2.56	0.24	1.79	0.28	75.5	19.0	83	7.49	41.6
L828411		0.64	<0.01	0.15	7.83	13.8	680	2.35	0.24	1.71	0.28	71.7	19.1	85	7.49	41.8
L828412		0.87	<0.01	0.19	8.58	13.3	670	2.60	0.27	0.78	0.22	79.7	20.1	96	8.97	40.5
L828413		0.59	<0.01	0.10	8.46	12.4	660	2.58	0.26	1.03	0.18	80.0	19.9	93	8.83	40.1
L828414		0.28	<0.01	0.16	5.96	17.3	630	2.17	0.18	0.36	0.42	59.9	17.4	70	4.23	40.7
L828415		0.55	<0.01	0.17	7.98	12.1	760	2.47	0.32	2.08	0.26	78.4	19.4	78	8.32	52.8
L828416		0.57	<0.01	0.16	8.48	11.9	680	2.64	0.32	0.85	0.20	89.7	19.9	84	9.42	43.5
L828417		0.56	<0.01	0.16	7.92	15.4	760	2.30	0.27	2.74	0.29	75.2	19.5	90	8.90	54.1
L828418		0.72	<0.01	0.13	7.37	14.0	650	1.80	0.24	3.46	0.24	76.3	17.9	83	7.91	45.5
L828419		0.63	<0.01	0.07	7.64	11.6	530	1.75	0.22	1.68	0.16	64.1	16.4	83	6.29	32.5
L828420		0.59	<0.01	0.09	7.10	10.8	500	1.64	0.22	1.89	0.18	64.0	15.2	77	6.16	30.2
L828421		0.78	<0.01	0.04	8.97	8.5	630	2.50	0.28	0.64	0.12	75.2	17.6	95	9.00	34.2
L828422		0.54	<0.01	0.06	8.55	9.5	570	2.18	0.27	0.98	0.14	72.2	17.6	89	7.98	29.6
L828423		0.78	<0.01	0.09	8.55	14.5	610	2.15	0.26	0.91	0.12	72.6	20.7	90	7.75	33.2



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 Finalized Date: 17- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828384		4.17	16.60	0.16	2.6	0.08	0.068	1.75	35.9	58.4	1.03	271	1.63	0.62	11.4	47.2
L828385		3.33	15.20	0.16	2.4	0.11	0.061	1.62	32.1	52.2	1.08	245	1.94	0.68	10.4	44.9
L828386		4.48	13.90	0.14	2.4	0.09	0.061	1.45	27.1	46.6	1.48	444	1.08	0.62	9.3	38.7
L828387		4.42	13.90	0.17	2.3	0.06	0.064	1.36	28.4	53.3	1.26	457	1.73	0.57	9.2	38.7
L828388		4.13	18.00	0.18	2.6	0.03	0.060	1.96	37.7	95.0	1.14	476	1.25	0.46	11.0	45.6
L828389		4.30	19.85	0.17	2.7	0.03	0.068	2.26	38.9	94.3	1.22	460	1.01	0.47	11.7	48.7
L828390		4.23	19.30	0.19	2.8	0.02	0.072	2.29	41.4	70.5	1.17	481	0.89	0.53	12.0	48.5
L828391		4.14	20.4	0.19	2.9	0.02	0.069	2.43	42.5	77.6	1.18	472	1.10	0.53	12.4	49.0
L828392		5.20	16.60	0.18	2.7	0.08	0.072	1.74	36.7	58.2	1.36	620	1.35	0.62	11.8	48.2
L828393		4.69	16.10	0.17	2.6	0.08	0.069	1.71	34.3	54.7	1.44	649	1.36	0.56	11.4	44.3
L828394		4.49	16.85	0.16	2.7	0.05	0.066	1.76	36.2	59.0	1.39	581	0.87	0.69	11.5	46.2
L828395		4.07	16.20	0.17	2.5	0.03	0.063	1.68	32.0	51.6	1.35	744	0.74	0.75	11.4	42.4
L828396		3.86	15.60	0.16	2.6	0.02	0.055	1.59	30.9	49.8	1.58	696	0.64	0.69	10.7	39.4
L828397		3.98	18.10	0.16	2.6	0.02	0.065	1.97	28.8	58.2	1.20	518	0.76	0.69	12.1	46.4
L828398		4.23	17.85	0.16	2.5	0.01	0.066	1.94	34.0	61.6	1.31	468	0.57	0.65	11.6	47.7
L828399		4.49	16.60	0.17	2.4	0.01	0.062	1.71	30.0	57.8	1.42	500	0.47	0.71	10.9	47.6
L828400		4.73	15.65	0.17	2.4	0.05	0.060	1.64	31.0	55.1	1.31	646	0.93	0.63	10.0	43.1
L828401		3.91	15.05	0.17	2.3	0.05	0.059	1.59	30.7	51.5	1.18	509	0.80	0.60	10.2	41.8
L828402		3.71	20.2	0.18	2.7	0.02	0.070	2.31	38.2	56.5	1.19	491	1.07	0.66	13.2	49.1
L828403		5.13	15.05	0.17	2.6	0.08	0.069	1.52	31.7	50.5	1.06	726	1.11	0.58	10.6	47.4
L828404		4.89	17.90	0.18	2.9	0.07	0.073	1.96	37.7	59.4	1.14	695	1.74	0.54	12.0	49.6
L828405		4.78	17.70	0.19	2.9	0.08	0.070	1.92	36.8	58.9	1.22	635	1.62	0.54	11.5	47.2
L828406		4.77	21.1	0.17	2.9	0.07	0.074	2.16	42.7	71.4	1.25	613	1.47	0.39	13.9	43.7
L828407		4.83	21.0	0.17	3.0	0.06	0.078	2.20	45.8	72.9	1.37	618	0.99	0.42	13.3	47.7
L828408		4.78	19.15	0.18	2.9	0.10	0.074	1.98	40.3	69.1	1.39	587	1.28	0.50	12.2	49.4
L828409		4.52	17.95	0.18	2.9	0.09	0.067	1.96	37.5	62.9	1.43	545	1.44	0.46	11.5	46.4
L828410		4.61	18.85	0.19	3.0	0.05	0.073	2.15	39.1	87.3	1.25	503	1.56	0.36	12.0	53.7
L828411		4.70	19.15	0.18	2.7	0.05	0.073	2.17	36.5	86.8	1.25	500	1.62	0.36	12.2	54.8
L828412		4.69	21.3	0.19	3.1	0.03	0.083	2.53	40.3	103.0	1.28	426	1.83	0.29	13.3	62.2
L828413		4.74	20.9	0.18	3.1	0.03	0.078	2.45	40.3	103.0	1.34	439	1.87	0.28	13.2	62.7
L828414		4.78	14.35	0.16	2.5	0.07	0.067	1.52	30.6	54.9	0.91	786	1.46	0.53	9.5	64.5
L828415		4.66	20.3	0.19	2.7	0.08	0.075	2.28	39.6	64.6	0.95	781	0.98	0.48	13.4	45.0
L828416		5.11	20.7	0.22	2.9	0.08	0.081	2.40	46.4	65.2	1.00	671	1.06	0.42	13.3	53.7
L828417		4.86	21.6	0.14	2.9	0.09	0.076	2.16	42.7	68.0	1.57	536	1.27	0.49	12.3	54.5
L828418		4.31	19.60	0.17	2.7	0.07	0.073	2.07	36.4	60.4	1.29	541	1.38	0.45	12.0	50.7
L828419		4.46	20.8	0.19	2.6	0.03	0.064	1.94	32.2	68.6	1.29	1090	0.86	0.38	11.6	51.8
L828420		4.34	18.70	0.19	2.6	0.03	0.065	1.79	32.4	65.0	1.29	1200	0.81	0.37	11.3	49.0
L828421		4.42	25.3	0.21	3.0	0.02	0.081	2.43	36.1	84.1	1.26	627	0.54	0.36	13.7	60.0
L828422		4.41	23.3	0.21	2.8	0.02	0.078	2.24	36.1	78.6	1.28	776	0.60	0.34	12.3	56.3
L828423		5.06	23.7	0.21	2.9	0.02	0.076	2.20	36.9	92.7	1.41	664	1.06	0.29	12.2	66.1



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02		
L828384		860	16.8	99.1	0.002	0.04	1.09	16.9	4	2.2	115.5	0.80	0.08	10.0	0.416	0.71	
L828385		800	15.4	97.5	<0.002	0.17	1.17	15.5	5	1.9	111.5	0.77	0.07	9.4	0.377	0.68	
L828386		720	13.5	72.8	0.002	0.13	0.68	15.7	3	1.7	151.5	0.67	0.08	7.7	0.400	0.40	
L828387		740	14.7	72.0	0.002	0.14	0.74	15.6	3	1.7	146.0	0.66	0.07	7.8	0.391	0.38	
L828388		870	14.2	113.0	<0.002	0.30	0.76	15.1	2	2.5	120.5	0.81	0.06	10.9	0.394	0.71	
L828389		840	14.1	124.0	<0.002	0.30	0.71	16.9	3	2.6	121.5	0.87	0.06	11.0	0.420	0.79	
L828390		770	17.8	132.0	<0.002	0.24	0.65	16.7	3	2.7	110.5	0.84	0.06	11.4	0.411	0.79	
L828391		820	19.8	138.5	<0.002	0.26	0.70	16.9	3	2.8	136.0	0.91	0.06	12.1	0.432	0.83	
L828392		900	17.0	91.5	0.003	0.30	0.85	17.2	4	2.1	191.0	0.85	0.08	9.9	0.461	0.63	
L828393		840	16.7	89.4	0.004	0.56	0.86	16.7	3	2.1	166.5	0.83	0.08	9.5	0.439	0.61	
L828394		800	15.6	96.5	0.002	0.30	0.67	16.1	3	2.2	113.0	0.84	0.07	9.9	0.425	0.62	
L828395		800	14.3	87.9	<0.002	0.24	0.60	14.1	2	2.2	100.0	0.82	0.05	9.6	0.390	0.55	
L828396		670	14.8	80.4	<0.002	0.17	0.46	13.8	2	2.0	85.6	0.77	0.06	9.4	0.375	0.49	
L828397		830	15.9	86.5	<0.002	0.19	0.54	15.3	3	2.5	132.0	0.84	0.05	8.8	0.416	0.64	
L828398		700	15.3	103.5	<0.002	0.13	0.48	15.6	2	2.5	93.0	0.83	0.05	9.9	0.398	0.62	
L828399		730	15.3	88.5	<0.002	0.13	0.41	15.1	3	2.3	86.2	0.78	0.05	9.3	0.405	0.56	
L828400		770	16.5	87.8	0.002	0.17	0.58	14.9	3	2.0	92.8	0.74	0.06	8.8	0.381	0.57	
L828401		750	13.2	88.5	0.002	0.17	0.53	14.2	3	2.0	105.0	0.72	0.05	8.8	0.359	0.55	
L828402		800	12.4	125.5	<0.002	0.22	0.61	17.0	3	2.8	87.7	0.94	0.07	11.0	0.442	0.74	
L828403		880	18.7	79.1	0.002	0.04	0.74	16.7	3	1.9	124.0	0.78	0.09	8.9	0.426	0.53	
L828404		880	18.4	106.5	0.002	0.06	0.79	18.1	3	2.3	124.0	0.84	0.08	10.8	0.450	0.71	
L828405		830	17.0	102.5	0.003	0.08	0.80	17.8	3	2.3	138.0	0.83	0.09	10.2	0.443	0.66	
L828406		660	20.6	94.9	0.002	0.37	0.66	17.7	3	2.7	163.0	1.04	0.09	13.2	0.453	0.67	
L828407		750	21.0	120.5	0.002	0.55	0.70	18.5	3	2.8	153.0	0.98	0.08	13.3	0.455	0.75	
L828408		760	17.4	106.5	0.003	0.56	0.84	18.6	3	2.4	151.0	0.88	0.09	11.2	0.453	0.68	
L828409		750	16.0	103.0	0.004	0.53	0.87	17.4	3	2.3	171.0	0.86	0.08	10.5	0.424	0.66	
L828410		860	20.2	120.5	0.002	1.11	0.86	18.5	3	2.5	132.0	0.86	0.07	11.0	0.447	0.76	
L828411		820	20.4	113.0	0.002	1.16	0.87	18.0	3	2.5	133.0	0.87	0.07	10.5	0.452	0.82	
L828412		880	22.1	141.0	<0.002	1.49	0.88	19.4	3	2.7	115.0	0.97	0.07	12.1	0.491	0.96	
L828413		850	21.9	137.0	0.002	1.56	0.93	19.1	3	2.7	119.5	0.94	0.08	11.8	0.481	0.93	
L828414		970	15.7	80.3	<0.002	0.03	0.84	15.1	3	1.9	66.9	0.72	0.08	8.8	0.377	0.54	
L828415		650	21.1	98.3	0.002	0.05	0.74	16.9	3	2.7	129.5	1.00	0.07	12.2	0.451	0.74	
L828416		770	21.4	131.0	0.003	0.63	0.75	17.6	3	2.8	105.0	1.04	0.07	13.9	0.456	0.89	
L828417		830	18.8	134.5	0.003	0.94	0.91	18.9	2	2.4	150.5	0.88	0.10	12.3	0.460	0.81	
L828418		760	21.6	124.5	0.003	1.04	0.77	17.4	2	2.3	179.0	0.90	0.07	11.3	0.420	0.82	
L828419		810	14.5	122.5	0.002	0.77	0.63	16.1	2	2.1	136.0	0.75	0.05	11.2	0.424	0.69	
L828420		810	14.1	107.5	0.002	0.69	0.65	15.2	2	2.0	131.0	0.78	0.05	10.8	0.407	0.65	
L828421		1000	8.6	153.0	<0.002	0.46	0.51	20.3	2	2.6	109.0	0.91	0.07	12.4	0.461	0.91	
L828422		920	12.4	142.0	0.002	0.60	0.57	18.3	2	2.4	122.5	0.83	0.06	12.3	0.445	0.83	
L828423		730	20.4	138.5	0.002	1.00	0.81	18.5	2	2.4	206	0.82	0.06	12.1	0.437	0.84	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Rackla)

CERTIFICATE OF ANALYSIS WH12100502
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Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
L828384		2.8	148	1.3	21.1	143	88.7
L828385		6.8	134	1.2	19.6	137	78.4
L828386		2.3	121	1.0	19.1	108	80.5
L828387		2.1	116	1.0	19.5	119	80.6
L828388		2.5	112	1.3	21.0	83	89.9
L828389		2.5	126	1.3	20.5	77	89.4
L828390		2.6	124	1.4	20.3	102	93.7
L828391		2.7	129	1.4	20.7	100	95.0
L828392		2.7	134	1.3	21.3	132	93.4
L828393		2.6	133	1.2	20.7	122	89.3
L828394		2.7	119	1.2	20.7	104	88.8
L828395		2.4	99	1.3	19.5	93	82.8
L828396		2.2	94	1.2	18.9	95	84.4
L828397		2.2	113	1.3	19.3	101	87.6
L828398		2.2	110	1.3	19.2	121	85.2
L828399		2.1	110	1.2	19.0	114	78.8
L828400		2.4	110	1.1	18.4	104	77.8
L828401		2.3	98	1.1	19.3	107	79.1
L828402		2.5	122	1.5	20.9	91	92.4
L828403		2.5	123	1.1	20.7	141	87.4
L828404		3.0	140	1.3	22.1	126	99.1
L828405		2.8	141	1.3	21.7	121	96.9
L828406		3.0	127	1.5	21.1	109	94.9
L828407		3.1	135	1.5	22.3	123	99.9
L828408		3.0	148	1.3	21.4	116	100.0
L828409		3.0	142	1.3	21.3	118	95.1
L828410		3.1	156	1.3	20.9	154	100.5
L828411		2.8	160	1.3	19.4	149	91.0
L828412		3.3	182	1.5	20.4	156	101.5
L828413		3.2	178	1.5	20.3	149	99.9
L828414		2.3	125	1.1	23.6	225	79.5
L828415		2.5	132	1.5	20.0	120	90.2
L828416		3.1	147	1.5	20.9	123	91.3
L828417		3.3	165	1.4	22.4	131	98.6
L828418		3.2	140	1.4	21.3	117	98.6
L828419		2.8	137	1.2	20.5	120	96.0
L828420		2.7	127	1.2	19.2	119	91.5
L828421		3.1	162	1.5	22.3	125	108.5
L828422		3.0	151	1.4	20.3	136	99.2
L828423		3.0	160	1.3	18.7	129	101.5



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt.	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
L828424		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
		0.60	<0.01	0.09	8.49	12.9	680	1.99	0.26	1.03	0.14	74.2	19.7	91	7.27	31.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828424		4.99	22.7	0.21	2.9	0.02	0.077	2.12	37.7	88.4	1.51	644	1.02	0.29	12.5	63.2

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME- MS61 P ppm 10	ME- MS61 Pb ppm 0.5	ME- MS61 Pb ppm 0.1	ME- MS61 Fe ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02
L828424		750	18.9	136.5	0.002	0.91	0.78	17.8	2	2.4	286	0.83	0.06	12.1	0.443	0.78

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
L828424		3.0	159	1.3	18.8	138	105.5

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12100502**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12104025**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D - Py/ Ag  
 This report is for 49 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

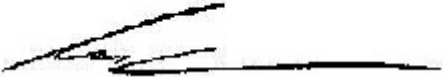
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 22Y	Split Sample - Boyd Rotary Splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999814		0.34	<0.01	0.09	10.20	6.9	930	3.73	0.38	1.05	0.08	58.6	20.3	85	8.49	32.8
.999815		0.65	<0.01	0.04	9.23	439	740	3.18	0.52	0.23	0.07	67.6	31.6	76	8.31	50.8
.999816		0.83	<0.01	0.04	9.03	407	750	3.39	0.57	0.19	0.03	73.7	39.5	74	10.45	44.0
.999817		0.77	<0.01	0.02	8.98	476	680	3.10	0.46	0.17	0.02	56.1	34.8	73	7.87	59.9
.999818		0.85	<0.01	0.01	8.42	402	710	2.91	0.42	0.15	0.03	55.3	33.1	69	8.00	40.4
.999819		0.90	<0.01	0.02	8.54	222	630	2.89	0.63	0.36	0.03	101.5	31.0	67	7.16	107.0
.999820		1.02	<0.01	0.02	8.90	237	800	3.07	0.55	0.18	0.03	62.4	28.6	72	7.72	56.4
.999821		0.87	<0.01	0.08	9.17	126.5	750	3.25	0.51	0.19	<0.02	68.4	32.6	68	8.95	30.7
.999822		0.84	<0.01	0.02	9.15	141.5	780	3.17	0.52	0.18	<0.02	80.8	29.7	65	8.80	15.8
.999823		1.17	<0.01	0.02	9.63	19.0	1060	3.19	0.49	0.36	<0.02	113.0	29.7	75	8.96	62.1
.999824		0.63	<0.01	0.01	9.19	53.0	1070	3.16	0.54	0.23	<0.02	80.2	31.2	68	9.06	25.5
.999825		0.92	<0.01	0.01	8.93	38.1	1060	3.34	0.54	0.18	<0.02	84.1	29.9	66	8.71	11.4
.999826		0.75	<0.01	0.01	9.93	49.6	1100	3.15	0.54	0.26	0.02	87.9	30.7	71	8.66	28.6
.999827		0.82	<0.01	0.44	8.27	2030	690	2.10	0.29	0.58	3.68	69.8	18.2	87	14.40	36.0
.999828		0.60	<0.01	0.15	7.08	1675	550	1.99	0.45	0.45	1.60	92.7	21.4	66	6.41	59.3
.999829		0.48	<0.01	0.12	7.36	1765	550	2.30	0.49	0.40	1.11	100.5	24.4	63	6.39	57.6
.999830		0.71	<0.01	0.04	9.83	634	910	3.16	0.46	0.25	0.16	83.8	26.1	75	7.91	60.7
.999831		0.80	<0.01	0.02	9.40	534	750	3.29	0.38	0.21	0.12	47.5	27.0	84	7.76	27.9
.999832		1.15	<0.01	0.02	9.16	242	960	3.53	0.49	0.18	0.04	47.8	24.2	72	9.16	17.3
.999833		0.70	<0.01	0.01	10.10	332	1000	3.51	0.40	0.19	0.05	42.7	25.5	76	8.91	12.6
.999834		0.90	<0.01	0.03	9.40	133.5	700	3.38	0.67	0.18	0.11	61.5	28.7	73	8.43	91.5
.999835		0.54	<0.01	0.01	8.80	94.8	740	3.60	0.40	0.16	0.08	38.0	28.8	75	8.60	10.8
.999836		0.93	<0.01	<0.01	9.44	66.9	1090	3.36	0.47	0.16	0.05	46.1	27.2	80	9.20	8.9
.999837		0.63	<0.01	0.04	9.49	81.5	1040	3.04	0.55	0.20	0.04	51.4	27.9	76	9.08	33.9
.999838		0.53	<0.01	0.11	5.81	1120	620	1.45	0.23	0.35	1.26	60.4	16.4	74	5.83	39.3
.999839		0.62	<0.01	0.04	8.27	412	570	2.58	0.40	0.17	0.14	43.9	27.1	72	5.58	17.9
.999840		0.58	<0.01	0.08	8.32	460	570	2.64	0.68	0.18	0.10	50.1	26.8	71	5.89	64.2
.999841		0.78	<0.01	0.10	8.67	585	830	3.30	0.75	0.19	0.05	63.0	37.6	74	7.54	58.6
.999842		0.66	<0.01	0.09	9.17	395	690	3.30	0.75	0.19	0.03	84.8	37.4	76	8.25	38.9
.999843		0.89	<0.01	0.04	9.00	76.7	550	3.29	0.64	0.42	0.14	96.8	39.1	72	7.10	48.9
.999844		0.78	<0.01	0.09	9.05	95.0	620	3.23	0.75	0.29	0.12	98.7	37.2	73	7.39	54.2
.999845		1.00	<0.01	0.15	9.39	90.3	770	3.15	0.65	0.24	0.11	86.0	39.2	75	8.38	69.8
.999846		0.91	<0.01	0.13	9.16	120.0	820	3.32	0.64	0.26	0.14	93.1	43.8	75	8.41	61.9
.999847		0.73	<0.01	0.05	8.92	32.2	610	3.16	0.62	0.24	0.05	85.1	27.6	75	8.61	80.1
.999848		0.60	<0.01	0.05	8.93	21.7	630	3.11	0.67	0.20	0.04	74.6	25.2	76	8.06	121.0
.999849		1.02	<0.01	0.06	9.05	13.2	900	2.94	0.71	0.41	<0.02	68.1	29.8	71	7.71	37.0
.999850		0.68	<0.01	0.07	8.80	20.8	590	2.75	0.62	0.37	0.03	69.0	31.9	75	6.67	40.8
.999851		0.59	<0.01	0.14	6.64	409	1000	1.70	0.31	0.32	0.35	70.7	18.4	74	6.06	36.3
.999852		0.79	<0.01	0.15	6.51	467	890	1.75	0.25	0.44	0.37	69.9	18.1	73	5.04	41.4
.999853		0.74	<0.01	0.07	7.21	469	650	2.14	0.40	0.30	0.19	89.5	22.7	66	5.58	44.2



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999814		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
.999815		5.54	29.3	0.16	4.2	0.01	0.093	2.73	23.8	94.5	1.12	560	0.63	0.39	31.8	50.9
.999816		5.52	25.4	0.17	3.2	0.10	0.086	2.74	23.8	67.8	0.86	2300	1.18	0.39	15.5	43.3
.999817		5.64	27.3	0.17	3.5	0.02	0.085	3.04	26.3	58.9	0.79	1580	1.33	0.34	15.8	43.4
.999818		5.17	26.3	0.15	3.3	0.01	0.081	2.71	19.4	65.3	0.86	1120	2.47	0.36	15.8	49.9
.999819		5.41	25.8	0.14	3.3	0.01	0.083	2.75	18.2	59.8	0.87	960	1.08	0.29	15.2	51.1
.999820		3.57	24.1	0.19	3.8	0.01	0.079	2.64	40.8	51.2	0.83	2510	0.92	0.36	14.1	42.2
.999821		4.78	25.0	0.14	3.6	<0.01	0.094	2.74	22.7	57.7	0.91	1040	0.94	0.31	14.3	45.3
.999822		6.20	26.4	0.17	3.4	0.02	0.083	3.13	24.7	44.7	0.95	722	0.67	0.27	14.8	56.0
.999823		6.65	25.3	0.18	3.2	0.01	0.090	3.03	29.4	41.4	0.92	777	0.66	0.26	14.2	52.5
.999824		5.67	26.5	0.20	3.3	0.03	0.082	3.18	43.4	41.2	0.96	1050	0.42	0.29	14.7	54.2
.999825		6.34	26.3	0.15	3.0	0.02	0.085	3.00	27.7	45.0	0.91	766	1.19	0.29	15.1	55.3
.999826		5.96	24.8	0.20	3.1	0.01	0.093	3.04	29.7	46.4	0.94	791	0.68	0.26	14.6	50.6
.999827		6.24	25.9	0.18	3.3	0.01	0.084	3.20	32.8	47.5	1.05	977	0.79	0.30	14.8	52.7
.999828		4.80	20.6	0.17	3.0	3.79	0.082	2.06	32.2	81.4	0.73	847	1.32	0.33	11.9	57.4
.999829		5.01	18.40	0.17	3.0	0.34	0.076	1.81	42.4	65.4	1.00	1280	1.46	0.42	11.1	49.3
.999830		5.24	20.2	0.21	3.0	0.26	0.085	1.84	45.7	75.9	0.87	1500	1.16	0.34	11.7	47.8
.999831		5.48	27.7	0.20	2.7	0.06	0.086	2.53	32.8	80.9	0.82	1060	1.20	0.45	14.3	50.0
.999832		5.52	27.8	0.16	2.6	0.07	0.088	2.68	17.8	81.8	0.74	1160	0.66	0.44	14.3	51.7
.999833		5.65	27.8	0.16	2.5	0.05	0.079	2.74	16.9	81.1	0.65	606	0.80	0.44	14.5	47.5
.999834		5.35	28.8	0.15	2.5	0.04	0.086	2.84	15.5	85.2	0.69	797	0.58	0.50	14.7	46.5
.999835		4.53	29.7	0.15	3.1	0.09	0.090	2.66	22.6	86.8	0.78	3380	3.00	0.52	15.6	45.4
.999836		4.91	29.2	0.14	2.8	0.04	0.089	2.78	13.4	79.4	0.72	1800	0.56	0.42	15.2	47.1
.999837		5.64	28.2	0.14	2.5	0.02	0.085	2.85	16.9	78.4	0.70	750	0.76	0.49	15.0	49.0
.999838		6.05	32.4	0.20	2.1	0.02	0.088	2.86	20.3	69.4	0.76	1300	1.32	0.49	16.9	47.2
.999839		4.79	16.85	0.16	2.1	0.3	0.061	1.49	30.3	46.2	0.87	929	2.24	0.48	10.6	42.6
.999840		6.41	28.1	0.19	2.8	0.02	0.080	2.64	14.7	62.9	1.04	723	0.38	0.20	18.0	53.2
.999841		6.24	27.4	0.21	3.0	0.01	0.090	2.64	16.9	61.5	1.05	736	0.62	0.17	16.7	49.2
.999842		3.58	29.3	0.21	3.6	0.02	0.093	3.04	24.6	42.3	0.79	1160	1.31	0.31	17.0	43.6
.999843		3.28	29.2	0.22	3.8	0.02	0.092	3.23	32.3	40.2	0.79	1000	1.49	0.35	17.6	42.4
.999844		4.15	28.0	0.23	3.5	<0.1	0.080	3.03	38.2	41.4	0.94	6290	2.02	0.42	17.1	41.5
.999845		3.84	29.6	0.25	3.3	<0.1	0.092	3.11	39.6	41.8	0.91	4710	2.14	0.40	17.3	44.0
.999846		4.08	31.2	0.26	3.3	0.03	0.096	3.30	33.2	42.5	0.95	2320	2.59	0.34	18.6	49.3
.999847		4.92	29.9	0.24	3.7	0.03	0.095	3.23	36.2	45.1	1.00	3630	4.22	0.31	17.8	49.0
.999848		4.29	27.8	0.22	3.5	<0.1	0.085	3.07	31.2	51.4	0.96	1480	1.97	0.26	18.1	45.7
.999849		4.72	28.6	0.21	3.4	0.01	0.089	3.03	25.8	59.5	1.00	971	1.96	0.25	18.7	49.3
.999850		5.67	27.9	0.22	3.0	0.01	0.091	3.00	25.6	60.7	1.11	1740	0.89	0.22	17.0	47.9
.999851		5.97	27.3	0.24	2.9	0.01	0.082	2.89	26.2	62.4	1.14	1900	1.24	0.20	17.0	47.5
.999852		4.84	19.05	0.19	2.3	0.5	0.066	1.81	35.3	55.5	0.85	1160	1.73	0.36	12.7	46.1
.999853		4.72	18.80	0.19	2.2	0.31	0.065	1.78	33.9	52.1	0.93	1020	1.48	0.46	12.6	44.6
.999854		5.22	21.3	0.22	2.6	0.07	0.072	2.16	42.8	47.0	0.72	1900	1.48	0.33	13.5	40.5

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
.999814		760	26.3	99.5	<0.002	0.16	0.46	16.3	1	3.3	111.5	1.86	0.13	11.0	0.524	0.70
.999815		500	29.8	138.5	<0.002	0.01	1.41	18.1	1	2.9	88.3	1.09	0.09	12.8	0.420	1.06
.999816		420	42.9	145.5	<0.002	0.01	1.72	19.8	1	3.3	95.2	1.08	0.09	13.4	0.400	0.93
.999817		380	28.6	121.5	<0.002	0.01	1.30	17.9	1	3.0	82.7	1.14	0.07	11.8	0.411	0.90
.999818		360	22.4	106.5	<0.002	0.01	1.20	17.6	1	2.9	78.0	1.07	0.06	11.0	0.405	0.90
.999819		400	86.8	145.5	<0.002	0.08	0.95	17.5	1	2.8	77.4	0.99	0.07	17.3	0.377	0.79
.999820		430	17.3	132.0	<0.002	0.01	0.99	17.2	1	2.9	78.8	1.06	0.08	12.7	0.383	0.82
.999821		360	27.0	157.5	<0.002	0.06	1.85	18.8	1	3.2	83.5	1.08	0.10	13.1	0.403	0.97
.999822		370	26.2	147.0	<0.002	0.03	2.06	18.1	1	3.0	85.4	1.06	0.09	14.8	0.377	0.95
.999823		380	23.2	187.5	<0.002	0.04	2.07	19.1	1	3.1	96.8	1.08	0.10	16.9	0.399	0.97
.999824		360	25.4	168.0	<0.002	0.04	2.21	18.6	<1	2.9	95.5	1.01	0.11	13.4	0.392	0.96
.999825		360	23.3	143.5	<0.002	0.04	1.72	17.8	<1	3.0	99.2	1.03	0.09	14.0	0.408	0.90
.999826		400	27.6	174.0	<0.002	0.05	1.68	18.8	1	3.0	105.5	1.04	0.09	15.9	0.428	0.88
.999827		830	96.6	125.0	<0.002	0.06	2.66	18.3	2	2.4	106.0	0.82	0.07	11.6	0.401	26.2
.999828		710	35.4	109.5	<0.002	0.02	1.92	17.1	1	2.3	79.6	0.81	0.06	14.2	0.374	38.0
.999829		630	40.3	110.5	<0.002	0.02	2.01	17.1	1	2.4	87.1	0.86	0.11	16.1	0.366	26.5
.999830		480	24.9	126.0	<0.002	0.01	1.37	18.4	<1	2.9	110.0	1.01	0.08	15.0	0.375	8.54
.999831		420	22.6	103.0	<0.002	0.01	1.32	16.8	<1	3.1	104.0	1.02	<0.05	10.4	0.387	4.43
.999832		370	29.6	114.0	<0.002	0.01	1.37	16.5	<1	3.2	113.5	1.01	<0.05	10.6	0.366	1.86
.999833		400	24.2	116.5	<0.002	0.01	1.23	16.9	<1	3.2	120.0	1.04	0.07	10.3	0.393	1.71
.999834		390	33.3	110.5	<0.002	0.02	0.92	18.3	1	3.3	115.0	1.07	0.12	13.1	0.389	2.27
.999835		380	28.4	102.0	<0.002	0.02	1.05	17.0	<1	3.3	108.0	1.08	0.09	9.2	0.385	1.87
.999836		370	31.0	113.0	<0.002	0.02	1.40	16.5	<1	3.1	115.0	1.05	0.08	10.2	0.384	1.47
.999837		400	32.3	124.0	<0.002	0.02	1.36	18.6	2	3.2	123.0	1.16	0.07	12.7	0.389	1.60
.999838		760	26.7	83.0	<0.002	0.02	1.30	14.2	2	1.7	70.2	0.71	0.06	11.0	0.371	19.70
.999839		480	10.5	84.8	<0.002	<0.01	0.75	18.8	2	2.9	80.7	1.24	0.09	10.7	0.426	2.32
.999840		520	23.9	84.4	<0.002	0.01	0.99	18.1	2	3.1	79.4	1.23	0.09	12.0	0.418	1.87
.999841		470	144.5	125.0	<0.002	0.03	2.04	19.3	2	3.1	80.0	1.24	0.07	14.6	0.417	1.22
.999842		470	106.0	148.5	0.002	0.05	1.93	20.1	2	3.2	81.7	1.29	0.08	17.9	0.427	1.15
.999843		430	132.0	141.0	<0.002	0.35	2.27	19.7	2	2.9	86.6	1.28	0.06	18.8	0.397	0.95
.999844		490	177.5	148.0	<0.002	0.26	1.76	19.2	2	3.1	86.2	1.24	0.07	18.8	0.408	1.02
.999845		540	158.0	155.0	<0.002	0.74	2.66	20.1	2	3.3	93.0	1.27	0.08	18.6	0.416	1.17
.999846		560	158.0	160.0	<0.002	0.99	3.34	20.2	2	3.2	94.9	1.27	0.08	19.2	0.403	1.17
.999847		530	54.5	141.0	<0.002	0.26	1.40	19.6	2	2.9	96.0	1.28	0.08	17.0	0.418	0.97
.999848		530	36.9	127.5	<0.002	0.13	0.92	19.4	2	3.0	96.4	1.33	0.09	15.4	0.426	0.99
.999849		390	42.9	116.5	<0.002	0.07	0.98	18.3	2	3.1	87.4	1.22	0.06	14.8	0.432	0.95
.999850		370	47.4	110.0	<0.002	0.05	0.97	18.1	2	2.9	78.2	1.19	0.07	15.2	0.420	0.94
.999851		870	23.8	100.0	<0.002	0.04	0.84	14.3	2	2.0	74.0	0.86	0.07	12.2	0.376	1.27
.999852		810	21.0	94.9	<0.002	0.03	0.77	15.4	3	1.9	74.4	0.86	0.07	11.6	0.387	1.24
.999853		610	45.0	123.5	<0.002	0.02	1.08	16.0	3	2.2	79.1	0.95	0.05	16.0	0.364	0.79

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
.999814		2.7	94	1.7	15.4	117	152.5
.999815		2.9	100	2.2	16.0	118	105.5
.999816		2.6	92	2.3	17.2	105	104.0
.999817		2.6	94	2.4	14.6	111	104.5
.999818		2.3	85	2.4	14.4	111	107.0
.999819		3.6	88	1.9	23.8	87	113.0
.999820		2.7	93	2.1	17.2	102	112.0
.999821		2.2	96	2.3	17.0	105	105.0
.999822		2.0	77	2.2	18.6	96	97.8
.999823		3.8	116	2.1	21.6	96	104.0
.999824		2.4	90	2.1	17.1	96	98.1
.999825		2.0	96	2.1	18.4	101	100.5
.999826		2.7	104	2.4	19.7	108	103.5
.999827		4.7	145	1.5	20.6	894	91.2
.999828		3.3	110	1.4	40.6	921	98.2
.999829		3.3	101	1.6	23.9	625	96.4
.999830		3.0	100	2.0	18.5	135	84.2
.999831		2.1	92	2.1	12.6	148	82.9
.999832		1.7	80	2.2	11.9	105	75.8
.999833		1.8	83	2.0	11.2	110	75.6
.999834		4.2	110	2.0	15.5	135	96.7
.999835		1.9	85	2.3	11.0	124	91.4
.999836		1.7	72	2.2	12.2	114	81.3
.999837		1.8	75	2.2	15.0	112	80.8
.999838		2.6	115	1.1	18.0	603	82.9
.999839		2.6	97	2.4	14.0	162	111.0
.999840		3.4	105	2.4	15.7	158	112.0
.999841		5.9	104	2.3	17.8	112	135.0
.999842		5.8	105	2.4	21.4	101	137.5
.999843		3.8	100	2.3	22.2	106	122.0
.999844		3.5	103	2.2	22.9	109	124.0
.999845		3.5	107	2.1	23.1	121	130.0
.999846		4.0	107	2.3	24.2	129	137.0
.999847		5.4	111	2.4	23.4	111	130.5
.999848		6.7	116	2.4	21.8	125	130.0
.999849		2.5	94	2.4	17.6	118	112.0
.999850		2.2	90	2.5	17.1	125	107.5
.999851		3.0	124	1.3	19.1	132	90.4
.999852		2.7	124	1.3	19.1	140	87.8
.999853		3.0	93	1.5	22.1	128	97.6



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999854		0.93	<0.01	0.09	8.67	331	690	2.79	0.66	0.23	0.11	64.1	28.4	71	6.90	61.3
.999855		0.91	<0.01	0.03	9.32	38.4	770	3.01	0.74	0.19	0.02	59.7	19.5	75	8.09	10.1
.999856		1.01	<0.01	0.03	8.92	80.4	850	2.81	0.61	0.19	0.04	57.2	20.4	74	7.46	17.3
.999857		0.93	<0.01	0.03	8.73	41.5	1120	2.55	0.71	0.39	0.03	65.4	16.0	69	7.69	9.8
.999858		0.90	<0.01	0.03	8.94	41.4	1480	2.70	0.70	0.30	0.02	66.9	16.2	70	7.93	8.3
.999859		1.04	<0.01	0.14	9.10	30.3	940	2.82	0.71	0.27	0.02	61.2	33.5	73	6.95	93.1
.999860		0.52	<0.01	0.23	9.77	42.1	700	2.92	0.79	0.24	0.04	76.9	44.5	77	7.62	79.8
.999861		0.90	<0.01	0.06	9.00	39.2	920	2.71	0.47	0.19	0.03	32.2	23.7	75	6.68	48.8
.999862		0.66	<0.01	0.04	9.13	22.7	610	2.72	0.26	0.18	<0.02	34.5	20.6	75	6.50	45.3



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999854		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
.999854		5.12	28.4	0.23	3.0	0.03	0.090	2.96	23.9	34.7	0.58	4050	2.51	0.32	17.2	44.6
.999855		6.02	29.6	0.22	2.9	<0.1	0.089	3.42	21.3	39.6	0.85	691	0.53	0.23	18.0	52.0
.999856		5.43	28.2	0.23	3.1	<0.1	0.089	3.21	21.4	41.7	0.84	1080	0.98	0.27	17.5	48.6
.999857		7.11	26.6	0.24	2.2	0.01	0.079	3.07	26.3	42.7	0.84	433	0.74	0.22	14.0	43.2
.999858		7.02	26.6	0.23	2.3	<0.1	0.076	3.13	28.2	43.9	0.84	491	0.75	0.23	13.6	41.2
.999859		6.00	27.3	0.23	2.8	<0.1	0.083	2.91	24.6	55.0	1.03	469	1.15	0.25	16.7	45.1
.999860		5.71	28.6	0.25	3.3	0.1	0.090	3.15	32.2	58.2	0.93	441	1.96	0.34	22.6	50.3
.999861		5.41	28.4	0.19	2.9	0.02	0.090	3.04	12.5	59.1	0.96	894	0.61	0.25	16.0	43.2
.999862		5.09	29.2	0.19	3.0	0.01	0.085	3.07	12.5	59.8	0.96	858	0.36	0.24	15.6	45.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 20- MAY- 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P ppm	Pb ppm	Pb ppm	Fe ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
.999854		470	60.1	142.5	<0.002	0.02	1.55	18.7	3	3.0	85.7	1.18	0.07	15.0	0.406	1.00
.999855		430	17.6	152.0	<0.002	0.02	1.10	18.9	2	3.1	89.7	1.23	0.07	13.9	0.421	1.09
.999856		440	22.8	138.5	<0.002	0.04	1.04	19.1	2	3.1	87.1	1.22	0.09	14.2	0.415	1.06
.999857		510	19.9	134.5	<0.002	0.04	0.98	16.7	2	2.9	109.5	0.99	0.05	14.6	0.365	0.99
.999858		510	20.1	133.0	<0.002	0.05	0.91	16.9	2	2.9	111.5	0.98	0.07	15.2	0.360	0.99
.999859		580	31.6	113.0	<0.002	0.55	1.45	18.3	2	3.0	111.5	1.24	0.08	14.2	0.377	0.92
.999860		510	52.1	136.5	<0.002	1.43	2.39	19.5	2	3.3	118.5	1.53	0.09	17.1	0.415	0.96
.999861		490	16.8	87.4	<0.002	0.26	0.70	17.4	2	3.2	106.5	1.18	0.08	9.6	0.398	0.99
.999862		480	14.9	86.8	<0.002	0.09	0.46	18.7	2	3.1	102.0	1.29	0.07	11.2	0.407	1.10

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
.999854		3.4	110	2.0	17.6	125	116.0
.999855		2.4	108	2.4	16.2	91	112.0
.999856		2.8	118	2.2	16.6	95	114.0
.999857		2.5	99	1.9	16.6	86	84.4
.999858		2.5	97	1.9	16.0	91	84.3
.999859		3.7	103	1.8	18.5	120	104.0
.999860		5.8	110	1.8	21.2	113	126.0
.999861		3.2	108	2.0	11.3	114	103.5
.999862		3.2	111	2.3	11.2	113	99.0

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104025**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method. Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12104026**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D - Py/ Ag  
 This report is for 50 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

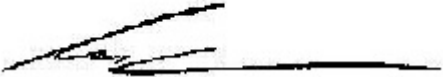
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999863		0.82	<0.01	0.06	7.90	7.0	540	2.31	0.36	0.27	0.07	89.4	18.9	66	4.60	32.1
.999864		0.78	<0.01	0.07	7.94	9.3	510	2.17	0.40	0.80	0.12	80.4	18.9	65	5.09	37.5
.999865		0.66	<0.01	0.09	7.35	9.3	1300	1.95	0.36	1.98	0.26	77.6	19.1	61	4.82	45.3
.999866		0.85	<0.01	0.06	8.52	9.9	930	2.60	0.44	0.94	0.11	77.1	18.4	74	7.37	34.1
.999867		0.90	<0.01	0.07	8.97	9.7	910	2.86	0.47	0.60	0.10	73.6	18.5	78	7.95	38.0
.999868		0.77	<0.01	0.06	7.57	9.0	510	2.16	0.39	0.26	0.10	82.2	17.3	67	4.14	37.1
.999869		0.78	<0.01	0.10	7.21	11.8	1080	1.80	0.34	2.59	0.27	74.1	18.8	62	4.41	52.3
.999870		0.83	<0.01	0.14	6.85	10.3	1000	1.73	0.32	4.05	0.25	68.9	18.2	58	4.23	52.2
.999871		1.11	<0.01	0.16	9.13	11.8	760	2.77	0.49	0.60	0.09	69.5	21.9	81	7.17	44.5
.999872		0.76	<0.01	0.13	9.31	10.9	930	2.64	0.50	0.46	0.06	65.3	21.2	83	7.44	29.6
.999873		0.51	<0.01	0.13	10.10	10.2	750	3.36	0.47	0.46	0.02	107.5	25.1	83	7.96	32.0
.999874		0.68	<0.01	0.07	10.30	7.3	800	3.26	0.43	0.49	0.04	100.0	19.7	85	7.67	45.8
.999875		0.77	<0.01	0.05	10.15	7.5	660	3.19	0.44	0.30	0.02	96.8	19.6	82	8.38	34.9
.999876		0.80	<0.01	0.08	9.15	8.1	610	2.90	0.42	0.79	0.04	86.2	18.7	78	7.29	32.0
.999877		0.87	<0.01	0.09	9.51	9.7	690	2.91	0.38	1.58	0.08	101.5	21.0	78	6.96	33.9
.999878		0.81	<0.01	0.10	10.50	9.1	710	3.22	0.43	0.79	0.07	103.0	21.5	83	7.91	34.8
.999879		0.70	<0.01	0.12	7.36	52.4	820	2.02	0.27	1.09	0.49	80.0	19.4	72	5.41	52.8
.999880		0.77	<0.01	0.12	7.26	27.9	800	1.93	0.26	3.46	0.34	70.5	17.2	70	5.83	45.5
.999881		0.65	<0.01	0.17	7.20	26.6	920	1.84	0.24	4.66	0.36	70.9	16.5	72	7.16	47.4
.999882		0.81	<0.01	0.20	6.67	27.6	900	1.74	0.24	5.20	0.49	69.5	16.1	71	6.91	52.1
.999883		0.92	<0.01	0.20	6.59	25.4	860	1.67	0.23	4.56	0.39	65.3	16.0	71	6.13	52.5
.999884		0.96	<0.01	0.19	6.58	19.7	940	1.65	0.21	4.80	0.43	65.3	15.8	69	6.04	56.5
.999885		0.93	<0.01	0.15	7.30	54.6	850	1.86	0.25	3.41	0.40	73.7	17.0	77	6.90	47.9
.999886		0.92	<0.01	0.19	8.06	62.4	940	2.17	0.26	2.23	0.40	69.1	20.2	86	8.61	48.0
.999887		0.81	<0.01	0.23	8.55	47.4	960	2.29	0.29	1.64	0.41	74.8	23.9	92	9.55	51.3
.999888		0.87	<0.01	0.32	7.88	53.1	960	2.15	0.26	2.81	0.45	72.0	21.1	83	8.14	51.1
.999889		0.81	<0.01	0.25	7.81	54.0	970	2.01	0.26	2.70	0.43	71.0	20.0	82	7.99	51.5
.999890		0.55	<0.01	0.26	6.73	56.8	880	1.71	0.21	4.08	0.45	64.1	16.5	70	5.89	45.9
.999891		0.54	<0.01	0.14	6.64	58.2	1020	1.70	0.22	4.09	0.37	67.8	16.1	72	5.97	44.7
.999892		0.79	<0.01	0.13	6.08	51.7	820	1.36	0.19	6.12	0.38	54.5	14.1	65	4.77	41.4
.999893		0.87	<0.01	0.14	6.26	44.8	750	1.51	0.20	4.53	0.34	61.7	15.2	66	5.44	46.4
.999894		0.69	<0.01	0.13	6.39	49.3	710	1.60	0.19	5.31	0.38	59.1	15.4	69	5.25	47.2
.999895		0.79	<0.01	0.13	5.92	42.7	680	1.38	0.19	6.25	0.34	56.3	13.8	60	4.53	39.4
.999896		0.75	<0.01	0.11	6.34	43.4	740	1.48	0.19	4.75	0.32	55.8	14.4	67	4.87	43.1
.999897		1.02	<0.01	0.13	5.41	35.7	820	1.38	0.18	6.13	0.51	55.2	13.9	58	3.90	37.1
.999898		0.92	<0.01	0.10	5.36	35.2	630	1.29	0.16	6.18	0.27	56.6	12.6	52	3.66	38.0
.999899		0.72	<0.01	0.13	7.55	77.4	640	2.12	0.30	0.44	0.35	82.5	18.7	70	5.83	44.7
.999900		0.59	<0.01	0.11	7.30	209	700	1.95	0.27	3.85	0.26	73.4	16.1	65	6.63	42.6
.999901		0.60	<0.01	0.11	7.84	104.5	760	2.10	0.28	2.33	0.38	74.9	16.7	71	7.15	45.2
.999902		0.62	<0.01	0.13	7.10	41.7	760	1.93	0.25	3.91	0.30	73.0	16.0	70	7.62	45.9





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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999863		5.54	24.5	0.22	2.6	0.03	0.064	1.85	39.7	69.8	0.99	1420	0.47	0.66	15.4	37.0
.999864		5.37	23.1	0.21	2.4	0.04	0.066	2.05	37.0	66.9	1.00	1430	0.93	0.54	14.0	36.5
.999865		5.31	20.9	0.21	2.2	0.05	0.062	1.88	37.4	63.3	1.02	1420	0.92	0.52	13.4	37.3
.999866		5.10	24.5	0.23	2.8	<0.1	0.068	2.40	33.7	72.1	1.04	1040	0.52	0.54	15.9	36.3
.999867		4.92	27.4	0.23	3.0	<0.1	0.076	2.62	30.6	71.6	1.06	813	0.44	0.51	17.2	37.0
.999868		5.12	21.5	0.20	2.5	<0.1	0.066	1.94	38.4	58.0	0.88	1160	0.68	0.51	14.8	36.6
.999869		5.32	20.0	0.22	2.1	0.06	0.066	1.86	37.1	57.6	1.25	1150	0.67	0.56	12.9	37.1
.999870		4.87	20.3	0.22	2.2	<0.1	0.065	1.77	34.5	53.3	1.23	1680	0.69	0.52	12.7	36.9
.999871		4.73	29.2	0.24	2.6	<0.1	0.078	2.67	31.1	69.6	0.97	543	0.76	0.49	18.6	42.0
.999872		4.51	27.8	0.20	2.7	0.07	0.077	2.77	29.4	63.5	0.95	524	0.81	0.50	17.4	37.3
.999873		4.71	27.9	0.18	3.1	0.05	0.078	2.96	56.0	82.6	1.03	592	0.95	0.50	17.6	41.7
.999874		5.15	27.7	0.18	3.0	0.04	0.080	3.06	51.4	84.3	1.10	759	0.45	0.44	18.0	41.8
.999875		5.34	26.2	0.18	2.8	0.04	0.075	2.99	47.4	74.4	1.15	754	0.28	0.42	15.8	41.0
.999876		5.01	24.4	0.15	2.9	0.05	0.064	2.83	43.3	72.1	1.12	795	0.33	0.42	14.9	38.0
.999877		5.12	24.6	0.20	3.0	0.05	0.071	2.70	50.1	75.3	1.32	782	0.68	0.56	18.1	41.2
.999878		5.21	25.6	0.18	3.2	0.05	0.075	3.11	53.2	73.9	1.19	583	0.59	0.48	16.5	39.2
.999879		5.32	18.00	0.15	2.9	0.16	0.068	2.06	39.7	64.7	1.10	1180	1.12	0.48	12.0	45.2
.999880		4.75	16.75	0.18	2.7	0.14	0.079	2.09	36.9	55.5	1.32	893	0.98	0.44	11.8	41.9
.999881		4.79	16.25	0.16	3.0	0.18	0.064	2.09	40.2	57.3	1.46	664	1.26	0.45	11.6	44.3
.999882		4.44	16.05	0.14	2.9	0.20	0.067	1.95	35.8	54.8	1.47	670	1.28	0.44	11.1	43.1
.999883		4.57	15.30	0.15	2.8	0.16	0.055	1.90	35.4	52.1	1.57	646	1.49	0.48	10.6	42.4
.999884		4.63	15.25	0.14	3.0	0.1	0.057	1.92	34.0	51.2	1.57	592	1.31	0.50	10.4	41.4
.999885		4.57	16.75	0.15	2.8	0.25	0.064	2.07	36.9	55.5	1.35	651	1.21	0.45	11.4	45.2
.999886		4.75	18.45	0.17	2.8	0.38	0.073	2.31	36.8	66.3	1.28	721	1.39	0.48	12.4	53.1
.999887		4.92	19.25	0.14	3.1	0.32	0.071	2.44	39.8	64.8	1.29	680	1.46	0.49	12.9	60.6
.999888		4.79	18.35	0.15	2.9	0.38	0.067	2.27	37.9	61.9	1.40	749	1.48	0.50	12.4	55.4
.999889		4.79	18.00	0.16	3.2	0.29	0.071	2.24	38.9	58.3	1.47	694	1.37	0.48	12.0	53.5
.999890		4.46	15.45	0.14	2.7	0.23	0.060	1.92	33.2	54.8	1.51	652	1.20	0.45	10.3	44.0
.999891		4.59	15.40	0.14	2.7	0.19	0.059	1.94	33.8	54.4	1.35	614	1.39	0.46	10.4	42.7
.999892		4.43	13.70	0.15	2.7	0.17	0.061	1.69	30.3	47.5	1.49	581	1.11	0.50	9.4	38.4
.999893		4.42	14.75	0.14	2.6	0.18	0.059	1.77	31.3	50.8	1.51	624	1.25	0.45	9.8	39.5
.999894		4.59	14.60	0.14	2.8	0.81	0.057	1.78	31.3	50.5	1.49	627	1.12	0.51	9.9	40.6
.999895		4.17	13.30	0.12	2.4	0.15	0.054	1.68	28.9	48.4	1.50	583	0.98	0.47	8.9	35.4
.999896		4.58	13.90	0.14	2.6	0.17	0.053	1.81	29.8	51.8	1.75	596	0.99	0.48	9.5	37.9
.999897		3.94	13.20	0.13	2.3	0.94	0.048	1.50	29.9	45.7	1.74	622	1.50	0.40	8.6	35.3
.999898		4.03	12.70	0.13	2.3	0.15	0.047	1.51	29.9	44.5	1.61	591	1.02	0.46	8.5	32.5
.999899		5.13	18.70	0.17	2.9	0.16	0.067	2.00	43.0	68.3	0.92	965	1.08	0.43	12.1	43.2
.999900		4.42	17.90	0.15	2.7	0.09	0.063	2.09	37.8	56.3	0.92	665	1.24	0.41	11.6	39.7
.999901		4.69	18.60	0.15	2.7	0.11	0.066	2.25	38.9	57.8	0.97	713	1.26	0.44	11.8	41.0
.999902		4.35	17.30	0.14	2.6	0.14	0.065	2.31	36.6	54.7	1.27	628	1.18	0.40	11.5	40.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCMP

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
.999863		500	30.7	94.4	<0.002	0.01	0.41	14.4	2	2.6	73.4	1.16	<0.05	17.8	0.383	0.62
.999864		460	34.7	96.3	<0.002	0.03	0.46	15.0	2	2.4	83.6	1.09	<0.05	17.4	0.376	0.74
.999865		480	33.8	93.6	<0.002	0.10	0.56	14.4	2	2.2	111.0	1.01	<0.05	16.4	0.369	0.70
.999866		510	26.8	93.4	<0.002	0.03	0.43	15.8	2	2.7	100.5	1.24	<0.05	16.9	0.427	0.80
.999867		440	25.0	102.0	<0.002	0.05	0.39	16.7	2	3.0	92.7	1.30	<0.05	17.9	0.446	0.88
.999868		480	32.8	98.4	<0.002	0.01	0.46	13.9	2	2.4	72.3	1.13	<0.05	16.6	0.379	0.66
.999869		510	30.8	95.0	<0.002	0.06	0.51	15.5	2	2.1	117.5	0.92	0.05	14.6	0.398	0.62
.999870		500	29.5	91.9	<0.002	0.05	0.53	14.7	2	2.1	183.5	0.90	0.05	13.9	0.372	0.69
.999871		390	49.0	109.5	0.002	0.21	0.67	17.4	2	3.1	86.7	1.38	<0.05	16.8	0.452	0.97
.999872		380	57.7	108.0	<0.002	0.34	0.74	16.6	2	3.1	81.8	1.35	<0.05	17.1	0.460	1.00
.999873		370	60.0	147.5	<0.002	0.62	0.88	18.0	1	3.3	92.4	1.27	<0.05	19.9	0.484	0.97
.999874		390	39.5	144.0	<0.002	0.35	0.60	17.7	1	3.2	92.3	1.25	<0.05	18.0	0.481	0.92
.999875		400	22.4	140.0	0.002	0.30	0.56	16.9	1	3.1	82.3	1.13	<0.05	16.7	0.465	0.90
.999876		410	37.3	118.5	<0.002	0.27	0.56	15.4	1	2.8	81.8	1.11	<0.05	15.8	0.443	0.86
.999877		480	38.7	126.5	0.002	0.34	0.68	17.2	1	2.9	123.0	1.17	<0.05	16.5	0.482	0.80
.999878		390	47.2	148.5	<0.002	0.47	0.71	16.3	1	3.0	95.5	1.18	<0.05	19.2	0.484	0.92
.999879		780	24.8	97.9	<0.002	0.03	0.87	16.2	1	2.1	100.0	0.81	0.07	11.6	0.443	0.90
.999880		740	21.5	90.7	<0.002	0.03	0.75	15.2	1	2.1	136.0	0.82	0.09	10.4	0.432	0.73
.999881		790	18.9	97.5	0.003	0.45	0.89	15.1	2	1.9	175.5	0.81	0.09	10.4	0.441	0.72
.999882		730	18.5	94.9	0.003	0.37	0.88	15.2	2	2.0	173.5	0.74	0.10	10.0	0.420	0.69
.999883		760	17.5	87.4	0.003	0.35	0.92	14.7	2	1.8	176.5	0.72	0.11	9.4	0.434	0.63
.999884		750	16.1	86.7	0.004	0.37	0.88	15.2	2	1.8	183.5	0.74	0.12	8.9	0.450	0.59
.999885		760	20.0	95.7	0.003	0.31	0.87	15.2	2	2.0	146.5	0.79	0.08	10.7	0.438	0.84
.999886		850	21.1	104.0	0.002	0.38	1.05	16.3	2	2.2	135.5	0.84	0.09	10.3	0.475	1.11
.999887		900	24.0	113.0	0.003	0.44	1.11	17.3	2	2.3	133.0	0.90	0.09	11.4	0.506	1.05
.999888		860	24.1	98.6	0.003	0.35	1.05	16.7	2	2.2	158.5	0.83	0.11	10.4	0.478	0.99
.999889		830	27.6	110.0	0.002	0.33	1.02	16.3	2	2.1	143.5	0.86	0.09	10.7	0.475	0.95
.999890		740	26.6	90.0	0.002	0.24	1.04	14.8	2	1.8	157.5	0.72	0.09	9.6	0.423	0.96
.999891		730	19.2	91.1	0.003	0.23	0.86	14.2	2	1.9	158.5	0.71	0.07	9.5	0.417	0.91
.999892		750	16.3	79.0	0.002	0.15	0.70	13.1	2	1.6	167.0	0.65	0.08	8.2	0.397	0.83
.999893		700	17.0	83.7	0.002	0.21	0.77	14.1	1	2.0	152.5	0.68	0.11	8.7	0.396	0.82
.999894		690	16.6	81.4	0.002	0.20	0.76	14.4	1	1.8	152.5	0.70	0.09	8.3	0.419	0.75
.999895		790	15.2	78.9	0.002	0.18	0.68	12.9	1	1.6	246	0.61	0.08	8.1	0.374	0.73
.999896		690	15.5	77.9	0.002	0.19	0.69	13.4	1	1.6	162.0	0.68	0.09	8.2	0.412	0.78
.999897		670	15.1	73.5	<0.002	0.22	0.70	12.2	1	1.6	164.5	0.58	0.09	8.2	0.330	0.59
.999898		620	14.3	70.4	<0.002	0.12	0.61	11.9	1	1.5	207	0.59	0.07	8.1	0.343	0.55
.999899		820	25.4	108.5	<0.002	0.02	0.86	15.9	1	2.2	87.7	0.85	0.06	12.1	0.422	0.82
.999900		620	19.5	86.5	<0.002	0.03	0.86	14.3	1	2.1	156.0	0.86	0.06	11.4	0.416	0.63
.999901		660	20.2	94.6	0.003	0.03	0.78	15.0	1	2.2	123.0	0.87	0.07	11.8	0.442	0.68
.999902		660	18.8	101.5	0.003	0.30	0.80	14.5	2	2.0	151.0	0.78	0.08	10.4	0.424	0.68



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
.999863		3.3	78	1.7	22.6	129	93.4
.999864		3.3	85	1.6	20.8	133	85.6
.999865		3.0	86	1.4	21.4	134	82.6
.999866		3.5	96	1.7	20.6	122	101.5
.999867		3.6	97	1.8	20.0	117	108.0
.999868		3.2	90	1.5	21.0	125	90.3
.999869		2.7	107	1.3	21.5	134	83.1
.999870		2.8	100	1.3	20.6	126	84.5
.999871		3.6	113	1.9	19.8	118	98.6
.999872		4.0	115	2.0	18.3	113	93.0
.999873		4.4	115	2.0	24.3	113	99.0
.999874		3.7	115	1.9	23.6	117	97.0
.999875		3.4	113	1.7	22.4	116	93.7
.999876		3.4	112	1.7	20.7	123	88.6
.999877		3.4	116	1.7	22.3	116	101.0
.999878		3.9	119	1.8	22.4	129	102.5
.999879		2.8	127	1.3	31.8	155	97.3
.999880		2.6	126	1.2	19.9	129	90.2
.999881		3.0	137	1.2	21.0	122	94.9
.999882		3.0	134	1.2	20.0	122	96.7
.999883		2.8	141	1.1	19.2	119	89.2
.999884		2.8	144	1.1	20.4	115	102.0
.999885		2.9	138	1.3	19.5	133	89.3
.999886		2.9	155	1.3	20.2	144	95.2
.999887		3.2	168	1.4	21.1	154	103.0
.999888		2.9	155	1.3	20.9	151	98.3
.999889		3.1	156	1.3	22.4	154	106.0
.999890		3.1	138	1.1	21.6	144	92.2
.999891		2.7	131	1.1	19.4	128	88.5
.999892		2.4	123	1.0	18.2	121	82.3
.999893		2.5	124	1.1	18.2	124	84.9
.999894		2.4	129	1.0	19.5	122	82.9
.999895		2.4	113	1.0	17.6	113	78.4
.999896		2.4	125	1.0	17.0	123	84.0
.999897		2.3	113	0.9	17.3	103	75.7
.999898		2.2	102	0.9	17.1	93	76.0
.999899		3.0	125	1.3	21.4	132	93.8
.999900		2.7	113	1.3	18.8	107	88.0
.999901		2.7	124	1.3	18.8	216	89.2
.999902		2.6	124	1.2	19.0	117	85.7



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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
.999903		0.65	<0.01	0.12	7.18	52.1	790	1.74	0.31	3.45	0.31	77.9	16.9	72	7.81	43.6
.999904		0.68	<0.01	0.10	7.53	41.0	740	1.85	0.34	2.53	0.34	80.6	18.3	72	6.47	42.2
.999905		0.59	<0.01	0.07	7.31	42.0	660	1.93	0.33	2.72	0.30	80.3	17.9	68	6.07	38.1
.999906		0.54	<0.01	0.07	7.61	125.0	660	1.97	0.30	2.50	0.27	78.5	17.4	76	6.67	42.1
.999907		0.53	<0.01	0.09	7.18	155.0	660	1.90	0.29	2.80	0.28	69.1	17.4	75	6.34	42.0
.999908		0.85	<0.01	0.42	7.34	58.1	590	1.74	0.27	1.75	0.38	67.8	16.4	78	6.18	41.4
.999909		0.89	<0.01	0.24	7.93	47.8	720	2.50	0.27	1.65	0.27	68.1	18.5	85	6.29	39.2
.999910		1.01	<0.01	0.22	8.41	53.6	920	2.51	0.29	1.72	0.33	75.6	22.7	90	8.12	46.5
.999911		0.73	<0.01	0.22	8.40	44.2	890	2.66	0.32	1.57	0.34	73.6	24.1	89	8.71	51.0
.999912		0.89	<0.01	0.23	7.99	43.0	920	2.76	0.32	1.45	0.37	63.8	25.5	94	8.68	55.4

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**Account: RCM**

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999903		4.40	18.95	0.13	2.8	0.14	0.068	2.22	38.8	57.9	1.27	667	1.37	0.41	12.3	39.2
.999904		4.52	20.5	0.12	2.7	0.28	0.072	2.18	38.4	68.3	1.22	751	1.17	0.41	13.3	39.7
.999905		4.41	19.55	0.12	2.6	0.4	0.070	2.08	38.9	66.2	1.31	849	1.13	0.41	13.2	38.7
.999906		4.65	20.5	0.13	3.0	2.37	0.076	2.13	38.1	70.0	1.47	731	1.42	0.41	13.2	43.5
.999907		4.50	20.2	0.13	2.5	0.81	0.075	2.01	33.5	69.2	1.32	648	1.22	0.40	12.9	43.1
.999908		4.48	19.95	0.14	2.5	0.45	0.096	1.95	33.9	72.0	1.27	567	1.19	0.38	11.8	48.0
.999909		4.64	19.40	0.13	2.7	0.57	0.064	2.13	33.9	67.9	1.21	623	1.13	0.40	10.8	53.9
.999910		4.77	21.2	0.16	3.0	0.37	0.073	2.34	37.6	66.1	1.25	662	1.53	0.46	12.6	58.9
.999911		4.83	22.0	0.18	2.9	0.34	0.073	2.35	37.3	70.3	1.26	699	1.67	0.46	13.2	60.6
.999912		4.97	23.8	0.16	2.8	0.33	0.081	2.41	29.6	75.6	1.20	695	1.77	0.47	13.3	64.9

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
.999903		640	22.1	114.0	0.003	0.28	0.90	16.2	2	2.1	147.0	0.96	0.07	14.2	0.407	0.80
.999904		660	22.5	105.0	0.002	0.16	0.94	16.0	2	2.4	126.0	1.03	0.07	13.8	0.405	0.80
.999905		620	24.8	111.0	0.002	0.13	0.89	16.2	2	2.2	119.0	1.03	0.07	14.1	0.399	0.79
.999906		640	21.7	119.0	0.002	0.23	0.76	17.6	2	2.2	114.5	1.00	0.07	13.7	0.418	0.85
.999907		650	24.0	96.3	0.002	0.27	0.76	16.5	2	2.2	120.0	0.94	0.07	11.7	0.403	0.82
.999908		710	22.8	109.0	0.002	0.37	1.06	17.5	2	2.3	99.2	0.84	0.07	11.7	0.404	0.85
.999909		820	16.1	114.5	0.002	0.39	0.96	15.7	2	2.4	131.5	0.82	0.06	10.5	0.429	0.76
.999910		880	18.9	118.0	0.007	0.44	1.14	16.6	2	2.5	134.5	1.02	0.10	11.7	0.472	0.85
.999911		880	19.8	120.0	0.003	0.44	1.20	17.6	2	2.7	130.0	0.97	0.09	11.7	0.473	0.89
.999912		880	20.0	94.9	0.004	0.41	1.30	17.8	3	2.9	132.5	0.99	0.09	9.6	0.476	0.88

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
.999903		3.1	122	1.2	21.8	112	90.2
.999904		3.0	116	1.4	20.8	210	87.4
.999905		3.1	110	1.3	21.2	114	86.0
.999906		3.2	124	1.2	22.6	132	99.3
.999907		2.8	123	1.1	19.8	135	83.8
.999908		2.8	135	1.1	20.2	148	87.3
.999909		2.7	152	1.3	18.6	147	109.5
.999910		3.0	164	1.5	19.6	152	108.0
.999911		2.9	160	1.4	20.2	145	118.0
.999912		2.7	170	1.4	17.8	152	112.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: Appendix 1  
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Finalized Date: 23- MAY- 2012  
Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104026**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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Page: 1  
 Finalized Date: 21- MAY- 2012  
 Account: RCM

**CERTIFICATE WH12104027**

Project: Rackla Gold (Rackla)  
 P.O. No.: Area D - Py/ Ag  
 This report is for 90 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

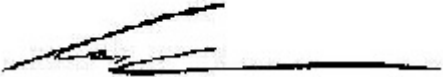
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 21- MAY- 2012  
 Account: RCMP

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828425		0.47	0.01	0.06	8.56	15.9	540	2.36	0.35	0.22	0.03	51.0	7.7	99	8.79	21.9
L828426		0.55	<0.01	0.07	9.45	18.7	650	2.26	0.34	0.24	0.03	76.6	7.1	103	10.20	19.0
L828427		0.69	<0.01	0.07	9.77	16.4	660	3.04	0.33	0.21	0.12	74.0	23.0	93	10.05	33.3
L828428		0.61	<0.01	0.08	9.60	14.9	550	2.91	0.34	0.24	0.14	77.4	21.5	90	9.73	33.4
L828429		0.85	<0.01	0.06	7.95	11.6	430	2.31	0.24	4.81	0.15	64.3	17.6	73	7.10	28.3
L828430		0.78	<0.01	0.07	9.17	13.9	540	2.55	0.26	1.83	0.13	71.0	20.2	86	8.74	32.5
L828431		0.81	<0.01	0.06	9.85	15.7	600	3.04	0.30	0.33	0.10	78.7	22.5	87	10.35	32.4
L828432		0.61	<0.01	0.06	9.24	13.7	530	2.52	0.28	0.75	0.11	72.0	19.6	89	8.73	30.0
L828433		0.40	0.01	0.10	7.31	14.0	700	2.06	0.24	0.50	0.22	73.5	18.5	83	5.20	30.1
L828434		0.55	<0.01	0.06	7.44	8.1	470	2.57	0.23	0.27	0.05	75.5	18.1	83	6.57	28.0
L828435		0.51	<0.01	0.07	8.38	7.8	550	2.79	0.28	0.25	0.04	79.2	18.9	92	7.61	26.3
L828436		0.58	<0.01	0.06	7.11	7.6	380	2.19	0.23	0.35	0.08	68.8	16.0	82	5.90	22.6
L828437		0.50	<0.01	0.05	7.02	7.2	370	2.09	0.21	0.37	0.07	69.3	16.2	81	5.71	23.0
L828438		0.81	0.01	0.27	7.73	8.7	420	2.13	0.23	0.45	0.06	74.1	17.9	84	6.36	25.3
L828439		0.50	<0.01	0.12	8.01	9.6	440	2.42	0.25	0.44	0.03	74.7	19.0	82	6.95	25.8
L828440		0.81	<0.01	0.10	7.93	9.5	550	2.40	0.24	0.43	0.03	77.6	19.3	86	7.01	26.5
L828441		0.24	<0.01	0.10	7.81	9.6	520	2.19	0.24	0.43	0.02	73.6	18.2	85	6.74	25.5
L828442		0.53	<0.01	0.13	8.42	14.2	810	2.24	0.29	0.95	0.22	70.8	19.2	91	6.87	42.4
L828443		0.58	<0.01	0.10	9.61	12.4	610	2.77	0.29	0.37	0.10	84.3	18.9	96	8.34	32.1
L828444		0.52	<0.01	0.06	10.10	11.4	600	3.01	0.33	0.30	0.10	71.4	21.2	102	10.30	34.5
L828445		0.64	<0.01	0.08	10.30	12.1	650	2.84	0.34	0.26	0.08	75.7	16.1	107	10.70	29.6
L828446		0.61	<0.01	0.06	8.78	13.9	500	2.83	0.28	0.52	0.05	80.9	20.3	95	8.94	29.6
L828447		0.65	<0.01	0.03	9.66	13.0	560	3.20	0.37	0.29	0.08	77.2	21.8	92	10.40	31.9
L828448		0.91	<0.01	0.04	7.25	8.5	390	1.94	0.20	4.72	0.07	61.1	14.8	68	6.80	22.4
L828449		0.72	<0.01	0.07	8.09	9.6	450	2.21	0.25	3.01	0.09	60.4	16.5	78	7.47	25.3
L828450		0.59	<0.01	0.09	6.71	140.5	560	1.62	0.21	2.21	0.30	56.8	17.6	70	4.36	43.2
L828451		0.48	<0.01	0.08	6.37	87.6	490	1.61	0.20	2.86	0.26	63.7	15.4	66	4.07	36.4
L828452		0.74	<0.01	0.08	8.58	39.5	490	2.32	0.31	2.28	0.18	68.8	18.3	81	7.85	29.2
L828453		0.67	<0.01	0.06	9.10	31.8	460	2.65	0.33	2.11	0.10	73.4	19.6	82	9.14	28.9
L828454		0.63	<0.01	0.06	8.45	28.1	430	2.51	0.29	2.69	0.13	58.6	17.8	77	8.06	25.6
L828455		0.51	<0.01	0.06	9.12	32.0	480	2.70	0.31	2.11	0.16	68.2	19.5	80	9.07	27.8
L828456		0.80	<0.01	0.08	7.99	46.4	380	2.39	0.28	3.93	0.24	67.3	18.6	79	8.04	29.6
L828457		0.48	<0.01	0.09	7.43	53.8	340	1.99	0.27	5.65	0.30	71.3	16.8	79	6.90	36.7
L828458		0.65	<0.01	0.10	7.22	61.5	350	2.00	0.30	5.45	0.27	69.1	17.0	77	6.98	34.4
L828459		0.78	<0.01	0.10	7.61	62.9	360	2.00	0.28	5.83	0.29	74.7	16.9	78	7.26	33.7
L828460		0.57	<0.01	0.10	8.84	2630	930	2.80	0.38	0.31	1.81	40.5	21.3	95	6.73	41.9
L828461		0.62	<0.01	0.06	9.85	2590	970	2.91	0.40	0.26	1.20	36.9	18.9	91	7.38	33.5
L828462		0.71	<0.01	0.03	9.92	530	1070	3.22	0.43	0.23	0.22	24.1	18.7	94	9.04	30.3
L828463		0.58	<0.01	0.03	9.61	222	1020	3.15	0.43	0.25	0.15	25.0	18.4	98	8.51	30.3
L828464		0.73	<0.01	0.03	10.00	260	1150	2.95	0.40	1.35	0.18	72.3	19.4	92	7.61	27.3

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 Finalized Date: 21 - MAY - 2012  
 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
L828425		4.17	25.9	0.13	3.0	0.04	0.079	2.77	22.1	71.3	0.86	187	1.44	0.41	13.4	30.2
L828426		5.28	25.7	0.13	3.5	0.04	0.075	2.74	40.4	75.5	0.90	168	2.03	0.38	13.0	30.4
L828427		5.32	26.0	0.20	2.9	0.04	0.083	2.79	36.7	90.3	1.17	251	1.32	0.36	12.5	65.2
L828428		5.07	25.2	0.18	2.9	0.04	0.083	2.73	37.9	85.4	1.20	320	1.17	0.36	12.2	64.3
L828429		5.35	19.30	0.13	2.6	0.04	0.064	2.17	31.8	51.5	2.62	3230	1.71	0.32	10.2	50.9
L828430		4.75	23.1	0.15	3.0	0.05	0.071	2.57	33.6	67.3	1.66	1320	1.66	0.36	11.6	61.0
L828431		4.82	25.6	0.18	3.3	0.04	0.079	2.86	38.8	82.5	1.26	322	1.11	0.37	12.8	66.6
L828432		4.92	23.8	0.15	2.9	0.03	0.071	2.61	34.8	72.9	1.36	654	1.06	0.34	11.8	60.1
L828433		4.69	18.85	0.14	2.7	0.05	0.062	1.76	36.0	60.6	0.64	510	1.27	0.57	11.9	46.8
L828434		4.61	18.55	0.17	3.0	0.03	0.064	1.92	38.7	63.9	0.34	389	0.67	0.52	11.5	50.1
L828435		4.85	20.3	0.15	3.1	0.03	0.062	2.20	39.7	71.2	0.40	482	0.68	0.48	11.6	55.2
L828436		3.91	17.90	0.13	2.7	0.02	0.052	1.82	34.3	60.3	0.36	441	0.52	0.53	10.7	45.6
L828437		3.97	17.65	0.13	2.9	0.02	0.050	1.77	32.9	59.1	0.37	450	0.46	0.55	10.5	45.0
L828438		4.40	19.75	0.15	3.0	0.02	0.058	2.13	35.9	60.5	0.94	300	0.85	0.45	11.8	48.6
L828439		4.52	21.0	0.16	2.9	0.03	0.067	2.16	37.5	62.3	0.95	287	0.81	0.47	12.4	50.6
L828440		4.55	20.6	0.17	2.9	0.03	0.059	2.18	38.2	66.9	1.02	292	0.95	0.45	12.9	53.4
L828441		4.44	20.2	0.15	3.1	0.03	0.061	2.14	35.7	65.2	0.98	286	1.32	0.46	12.2	50.9
L828442		5.03	20.2	0.15	2.8	0.08	0.066	2.33	35.2	66.8	0.96	583	1.27	0.49	11.8	51.3
L828443		4.99	24.3	0.20	3.0	0.03	0.080	2.59	41.0	80.5	0.44	593	0.99	0.41	12.7	52.4
L828444		5.26	26.1	0.16	3.0	0.03	0.083	2.76	32.7	96.4	0.52	392	0.84	0.41	13.0	60.3
L828445		4.68	26.4	0.16	3.1	0.05	0.081	2.85	35.9	103.0	0.54	317	0.93	0.41	13.1	44.0
L828446		4.77	22.5	0.16	3.0	0.02	0.073	2.40	40.7	93.5	0.91	370	1.68	0.41	12.0	60.2
L828447		4.89	25.9	0.17	2.9	0.02	0.092	2.84	37.3	101.5	1.12	241	0.73	0.42	12.9	67.1
L828448		4.95	17.25	0.13	2.5	0.02	0.056	1.95	30.4	61.8	2.54	1680	0.59	0.35	9.3	43.1
L828449		4.71	20.3	0.13	2.5	0.02	0.068	2.26	30.1	69.2	1.92	1160	0.66	0.40	10.7	50.2
L828450		4.86	16.60	0.14	2.6	0.26	0.056	1.74	28.7	49.5	0.98	587	0.97	0.50	9.9	46.0
L828451		4.45	15.05	0.15	2.7	1.63	0.059	1.66	30.5	43.9	0.96	594	1.10	0.58	9.9	41.7
L828452		4.59	22.1	0.14	2.5	0.1	0.065	2.70	32.7	103.5	1.30	496	1.12	0.37	12.3	49.3
L828453		4.64	23.7	0.17	2.5	0.07	0.074	2.89	36.5	112.0	1.36	507	0.97	0.36	13.1	52.9
L828454		4.53	21.8	0.13	2.5	0.04	0.064	2.76	27.5	108.5	1.45	572	0.70	0.30	12.3	50.9
L828455		4.61	23.7	0.14	2.5	0.05	0.071	2.87	32.7	119.5	1.34	479	1.02	0.25	12.9	54.3
L828456		4.32	21.0	0.15	2.4	0.08	0.068	2.48	34.7	95.8	1.59	1240	6.74	0.27	11.7	48.7
L828457		4.51	18.55	0.14	2.3	0.09	0.070	2.20	33.2	100.0	1.68	1600	13.70	0.31	11.2	52.0
L828458		4.25	17.90	0.15	2.5	0.12	0.058	2.27	31.7	90.4	1.43	1510	19.95	0.47	10.9	54.0
L828459		4.42	17.95	0.15	2.6	0.12	0.067	2.27	34.8	89.8	1.56	1620	21.8	0.47	10.9	54.8
L828460		5.93	26.2	0.12	3.6	0.14	0.086	3.00	13.4	71.5	0.65	874	1.45	0.30	27.4	57.7
L828461		5.71	26.8	0.14	3.5	0.10	0.074	3.32	12.4	65.6	0.48	683	0.94	0.29	27.4	49.7
L828462		5.75	29.0	0.11	3.8	0.04	0.087	3.54	8.3	70.9	0.43	428	0.54	0.30	30.8	48.4
L828463		5.29	29.9	0.11	3.7	0.02	0.083	3.61	8.5	75.1	0.67	385	0.40	0.29	31.3	46.1
L828464		5.99	27.8	0.19	3.5	0.01	0.082	3.36	27.4	68.0	1.35	814	0.38	0.26	28.9	50.6

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 Finalized Date: 21- MAY- 2012  
 Account: RCMP

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
L828425		770	21.1	123.5	0.003	0.19	0.92	18.5	2	3.4	102.5	0.98	0.06	9.7	0.491	1.03
L828426		720	19.4	163.5	0.002	0.18	1.03	19.4	2	3.3	104.0	0.97	0.07	12.6	0.481	1.02
L828427		650	23.1	155.5	<0.002	2.04	1.04	19.2	2	3.3	82.1	0.93	0.07	12.4	0.475	1.03
L828428		650	21.1	154.0	0.002	1.96	0.82	19.8	2	3.2	83.9	0.95	0.08	12.4	0.473	1.00
L828429		1020	16.8	121.5	<0.002	1.65	0.67	14.4	2	2.4	101.5	0.81	0.07	10.4	0.395	0.86
L828430		980	17.5	128.5	0.003	1.74	0.73	17.9	2	3.0	87.5	0.90	0.05	11.0	0.449	1.05
L828431		670	18.1	163.5	<0.002	2.13	0.79	20.0	2	3.3	86.8	0.99	0.07	11.9	0.493	1.03
L828432		740	17.4	141.5	0.003	1.97	0.70	18.4	2	2.7	82.8	0.90	0.07	11.4	0.468	1.00
L828433		750	16.8	107.5	<0.002	0.03	1.06	15.0	2	2.5	110.0	0.90	0.06	10.4	0.447	0.61
L828434		860	17.3	114.0	0.002	0.11	0.65	15.0	1	2.5	93.4	0.88	<0.05	12.5	0.420	0.72
L828435		910	19.7	130.5	0.002	0.08	0.65	16.1	2	2.7	126.5	0.94	0.06	12.2	0.452	0.80
L828436		750	11.5	106.5	0.002	0.20	0.56	13.4	1	2.5	82.3	0.83	0.06	10.9	0.405	0.60
L828437		770	11.9	101.0	0.002	0.25	0.57	12.8	1	2.3	80.8	0.86	<0.05	10.7	0.406	0.63
L828438		730	17.9	116.5	<0.002	1.51	0.67	14.8	2	2.7	88.6	0.91	0.06	11.5	0.435	0.73
L828439		740	18.8	125.0	0.002	1.60	0.72	15.8	2	2.8	106.5	0.94	0.06	11.9	0.434	0.78
L828440		730	19.0	130.5	0.002	1.57	0.74	15.8	2	3.1	108.5	0.95	0.07	11.5	0.449	0.73
L828441		740	18.4	122.5	<0.002	1.51	0.77	14.9	2	2.9	101.0	0.92	0.05	11.2	0.439	0.73
L828442		780	17.8	117.0	0.003	0.03	0.95	16.7	2	2.6	99.7	0.95	0.08	11.5	0.492	0.75
L828443		780	23.1	150.5	<0.002	0.04	1.04	18.3	1	3.2	121.0	0.98	0.05	12.5	0.479	0.88
L828444		850	20.6	153.5	<0.002	0.10	0.83	20.3	1	3.3	107.5	0.99	0.08	12.0	0.495	0.92
L828445		820	23.6	170.5	0.002	0.21	0.81	19.6	2	3.5	151.0	1.05	0.05	12.4	0.517	1.05
L828446		920	21.5	141.5	<0.002	1.80	0.82	17.6	2	3.1	97.3	0.92	0.05	12.3	0.448	0.80
L828447		870	22.4	162.5	<0.002	2.08	0.72	18.6	2	3.3	98.0	0.95	0.05	12.2	0.494	0.99
L828448		820	15.2	110.5	<0.002	1.39	0.55	13.5	2	2.3	89.9	0.70	<0.05	8.7	0.356	0.65
L828449		900	17.8	96.8	<0.002	1.66	0.61	14.8	1	2.7	91.3	0.81	0.05	9.2	0.404	0.70
L828450		850	16.6	90.6	0.002	0.04	0.89	14.3	1	2.1	115.5	0.76	0.09	9.0	0.403	0.66
L828451		1310	15.9	88.6	<0.002	0.07	0.76	13.2	2	2.0	106.0	0.75	<0.05	8.8	0.379	0.57
L828452		840	19.7	121.0	0.002	1.57	0.69	15.5	2	3.1	105.5	0.92	0.06	10.3	0.434	1.08
L828453		880	20.9	148.0	0.002	2.00	0.77	16.8	2	3.2	106.5	0.99	0.08	11.0	0.445	1.31
L828454		1020	17.2	102.5	0.002	1.94	0.60	14.3	1	3.1	115.0	0.99	0.07	9.2	0.422	0.99
L828455		790	19.1	123.5	<0.002	2.06	0.70	15.7	2	3.3	109.0	0.96	0.05	10.3	0.432	1.05
L828456		1100	17.2	121.0	0.004	2.08	1.03	14.0	2	2.9	119.5	0.88	0.05	10.1	0.386	1.21
L828457		1270	20.9	121.0	0.006	2.09	1.17	14.6	2	2.8	139.5	0.81	0.06	10.7	0.369	1.49
L828458		1360	19.7	115.0	0.010	2.41	1.37	13.6	2	2.6	128.5	0.83	<0.05	10.6	0.373	2.14
L828459		1410	19.2	135.0	0.014	2.46	1.48	14.4	2	2.6	134.0	0.83	<0.05	11.8	0.375	2.21
L828460		860	28.0	111.5	0.002	0.01	3.49	17.0	1	3.2	127.0	1.67	0.16	8.5	0.568	9.43
L828461		680	29.6	128.5	<0.002	0.01	3.57	15.6	1	3.2	116.5	1.60	0.12	9.5	0.533	5.93
L828462		640	24.0	134.5	0.002	0.03	1.01	15.6	1	3.4	116.0	1.72	0.13	7.3	0.549	2.48
L828463		630	25.5	111.5	<0.002	0.06	0.65	15.2	1	3.5	112.5	1.71	0.13	7.0	0.564	1.93
L828464		690	24.1	98.9	<0.002	0.14	0.60	16.1	1	3.3	155.0	1.64	0.13	12.1	0.543	1.74



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**VANCOUVER BC V6B 1L8**

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Project: Rackla Gold (Rackla)

CERTIFICATE OF ANALYSIS WH12104027
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Sample Description	Method Analyte Units LOR	ME- MS61 U ppm 0.1	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
L828425		2.7	172	1.6	9.8	61	122.0
L828426		2.6	168	1.5	14.2	73	120.5
L828427		2.9	170	1.5	18.3	128	116.0
L828428		2.7	169	1.5	18.1	161	111.0
L828429		3.2	134	1.4	20.1	135	106.5
L828430		3.1	160	1.4	18.3	150	107.5
L828431		3.0	179	1.5	19.0	120	120.5
L828432		2.9	167	1.5	17.8	136	112.0
L828433		2.6	134	1.4	18.1	116	104.0
L828434		2.7	118	1.3	22.7	92	112.5
L828435		2.7	136	1.4	22.8	90	112.0
L828436		2.4	114	1.2	18.3	101	102.0
L828437		2.3	113	1.3	18.4	97	105.5
L828438		2.6	127	1.4	18.8	100	114.5
L828439		2.6	131	1.3	19.0	90	112.5
L828440		2.7	132	1.4	20.2	87	123.0
L828441		2.6	128	1.4	19.2	84	113.0
L828442		2.7	169	1.4	18.4	135	107.5
L828443		2.7	160	1.5	18.3	144	115.5
L828444		2.8	172	1.5	17.9	149	113.0
L828445		2.9	176	1.6	16.1	95	116.0
L828446		2.7	150	1.4	20.9	103	113.5
L828447		2.9	172	1.6	20.3	140	113.5
L828448		2.0	110	1.1	17.2	112	90.3
L828449		2.0	130	1.2	16.8	132	96.6
L828450		2.2	123	1.2	18.8	175	98.1
L828451		2.1	103	1.0	21.0	149	100.5
L828452		2.1	121	1.4	17.1	132	98.2
L828453		2.4	119	1.5	19.4	100	107.0
L828454		2.1	114	1.4	17.3	114	91.3
L828455		2.3	121	1.5	16.5	114	98.6
L828456		4.1	114	1.4	19.5	112	95.2
L828457		6.1	111	1.4	24.9	121	82.5
L828458		7.3	125	1.5	23.6	107	81.4
L828459		7.8	124	1.5	25.5	104	84.4
L828460		3.8	134	1.8	13.0	932	142.0
L828461		3.7	112	1.8	11.1	672	139.0
L828462		2.7	110	1.8	8.2	207	153.5
L828463		2.5	114	1.8	8.6	185	150.0
L828464		2.5	107	1.7	18.3	204	143.0



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L828465		0.48	<0.01	0.08	9.72	110.5	1020	2.93	0.42	0.90	0.13	65.0	17.9	86	7.35	29.9
L828466		0.76	<0.01	0.04	9.90	141.5	1110	3.06	0.40	0.93	0.13	68.6	19.2	89	7.89	29.7
L828467		0.74	<0.01	0.04	10.35	138.0	1140	3.15	0.40	0.99	0.11	71.0	19.3	91	8.30	30.7
L828468		0.71	<0.01	0.05	9.38	13.6	1160	2.99	0.41	1.13	<0.02	61.2	19.3	89	6.77	28.7
L828469		0.59	<0.01	0.04	9.71	25.5	1150	2.68	0.38	2.18	0.03	88.0	21.7	83	6.20	25.5
L828470		0.89	<0.01	0.12	6.95	1450	1280	1.52	0.26	4.63	0.98	76.7	16.9	74	6.20	50.0
L828471		0.46	<0.01	0.13	6.21	1355	990	1.46	0.21	4.65	0.92	71.1	15.5	69	5.58	47.7
L828472		0.42	<0.01	0.04	9.61	763	760	2.52	0.42	0.91	0.12	57.9	24.1	91	6.48	42.4
L828473		0.55	<0.01	0.06	9.79	668	750	2.98	0.59	0.75	0.16	46.2	22.1	91	6.72	53.0
L828474		0.71	<0.01	0.04	9.49	448	740	3.07	0.50	0.49	0.10	42.8	25.1	86	7.00	40.9
L828475		0.46	<0.01	0.03	9.54	239	760	3.00	0.58	0.23	<0.02	22.7	25.6	80	6.48	87.0
L828476		0.93	<0.01	0.02	9.24	287	900	3.00	0.47	0.29	0.04	26.4	26.6	86	6.56	36.0
L828477		0.86	<0.01	0.02	9.57	314	930	3.12	0.43	0.46	0.04	35.9	28.5	88	6.92	23.4
L828478		0.62	<0.01	0.10	10.40	36.6	820	3.40	0.79	0.19	<0.02	31.4	31.4	86	7.20	100.0
L828479		0.59	<0.01	0.07	8.77	143.5	740	2.97	0.52	0.25	0.07	26.8	27.5	83	6.44	99.8
L828480		0.85	<0.01	0.07	9.80	65.6	1260	3.07	0.41	0.22	0.03	26.4	26.9	86	7.21	36.9
L828481		0.83	<0.01	0.03	9.46	79.1	1510	3.11	0.35	1.51	0.04	52.3	25.4	79	7.19	21.7
L828482		0.88	<0.01	0.05	9.25	1245	1020	3.81	0.48	0.27	0.17	36.3	23.1	100	10.35	25.2
L828483		0.67	<0.01	0.05	9.33	1295	1010	3.43	0.50	0.30	0.30	30.6	25.1	104	9.57	25.3
L828484		0.58	<0.01	0.06	9.48	1005	940	3.85	0.50	0.26	0.25	28.8	34.6	106	10.40	22.9
L828485		0.62	<0.01	0.07	9.42	772	910	3.35	0.44	1.11	0.38	49.8	30.3	100	8.90	17.8
L828486		0.56	<0.01	0.03	9.43	44.0	670	3.06	0.48	0.18	0.03	25.8	84.6	88	7.33	46.9
L828487		0.64	<0.01	0.03	9.50	109.0	1050	3.09	0.50	0.20	0.04	35.2	46.8	86	7.81	56.3
L828488		1.07	<0.01	0.02	8.31	41.4	620	2.75	0.51	0.15	<0.02	27.5	61.3	81	6.74	49.8
L828489		0.82	<0.01	0.01	8.33	29.7	700	2.99	0.52	0.16	<0.02	30.6	44.0	80	6.99	49.8
L828490		0.71	<0.01	0.03	9.38	50.3	730	3.01	0.61	0.18	0.02	25.8	26.6	81	7.33	47.7
L828491		0.82	<0.01	0.01	9.38	47.8	820	2.90	0.35	0.17	<0.02	27.0	27.8	86	7.50	28.4
L828492		0.87	<0.01	0.01	9.61	30.4	710	3.06	0.36	0.16	0.02	22.2	22.1	86	7.40	23.7
L828493		0.69	<0.01	0.01	10.75	42.8	790	3.36	0.47	0.20	0.02	73.5	24.5	83	9.66	74.6
L828494		0.58	<0.01	0.09	6.96	15.9	530	1.75	0.22	3.45	0.22	73.8	17.1	64	5.04	49.7
L828495		0.43	<0.01	0.11	7.35	15.0	570	1.74	0.22	3.42	0.22	73.4	17.8	72	5.54	48.3
L828496		0.73	<0.01	0.09	8.24	86.9	610	2.07	0.23	1.01	0.18	85.3	17.4	86	8.32	38.3
L828497		0.72	<0.01	0.09	8.04	22.4	600	1.88	0.21	2.24	0.23	71.0	16.3	82	8.06	35.4
L828498		0.56	<0.01	0.07	7.32	19.7	530	1.91	0.19	9.98	0.22	80.6	16.1	68	7.03	28.0
L828499		0.76	<0.01	0.10	7.68	20.3	580	1.97	0.21	5.63	0.18	76.9	16.6	76	7.64	32.9
L828500		0.65	<0.01	0.07	9.34	28.6	780	2.92	0.33	3.60	0.05	85.1	18.8	91	7.85	27.6
.999800		0.77	<0.01	0.05	10.40	28.4	800	2.74	0.36	1.22	0.06	99.2	19.1	96	10.10	27.8
.999801		0.83	<0.01	0.11	10.85	27.0	880	2.85	0.37	1.36	0.07	119.5	19.0	99	10.70	26.7
.999802		0.66	<0.01	0.09	8.95	25.5	730	2.35	0.28	4.44	0.09	99.3	17.9	81	8.57	25.9
.999803		0.61	<0.01	0.09	10.15	6.1	850	2.90	0.32	1.22	0.03	84.1	19.8	91	8.63	29.7

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
L828465		5.62	27.3	0.17	3.4	0.01	0.076	3.18	24.2	68.2	1.18	703	0.29	0.25	28.3	45.0
L828466		5.64	28.5	0.17	3.7	0.02	0.082	3.33	24.3	69.2	1.20	705	0.33	0.30	30.6	48.7
L828467		5.78	29.2	0.15	3.4	0.01	0.080	3.42	26.8	72.6	1.26	763	0.38	0.30	30.3	48.9
L828468		5.11	27.7	0.15	3.4	<0.01	0.071	3.29	22.2	66.9	1.17	680	0.26	0.26	27.2	44.3
L828469		7.04	25.7	0.19	3.0	<0.01	0.069	3.10	36.1	58.6	1.72	832	0.27	0.25	25.4	52.9
L828470		5.19	16.25	0.16	2.6	0.24	0.061	1.93	34.4	54.7	1.24	1140	1.28	0.48	12.8	48.1
L828471		4.75	14.85	0.13	2.4	0.21	0.055	1.77	31.7	48.4	1.16	880	1.26	0.45	12.1	44.3
L828472		5.38	27.3	0.14	2.6	0.06	0.071	2.65	17.9	114.0	1.02	703	0.76	0.55	15.9	46.5
L828473		5.57	28.9	0.12	2.6	0.05	0.071	2.60	14.9	125.5	0.96	623	0.90	0.57	15.7	45.7
L828474		4.85	29.2	0.13	2.7	0.03	0.073	2.62	13.9	115.0	0.87	749	0.89	0.57	15.4	45.6
L828475		4.99	29.9	0.12	2.5	<0.01	0.072	2.59	7.1	127.0	0.80	701	0.96	0.60	15.0	46.5
L828476		5.66	28.3	0.10	2.7	0.01	0.069	2.65	8.0	113.0	0.83	833	0.35	0.52	15.1	46.2
L828477		6.03	29.2	0.11	2.6	0.02	0.074	2.71	10.5	121.0	0.89	772	0.50	0.52	15.4	47.6
L828478		4.08	31.8	0.11	3.4	<0.01	0.091	3.00	10.1	97.4	0.85	1360	3.09	0.79	16.2	50.2
L828479		4.62	29.2	0.12	2.7	0.02	0.071	2.72	8.5	109.5	0.77	1050	2.02	0.61	15.2	48.3
L828480		5.91	28.4	0.13	2.4	0.01	0.071	2.92	8.0	105.5	0.88	1360	0.62	0.56	14.8	50.0
L828481		5.88	27.8	0.16	2.3	0.01	0.078	2.74	17.0	104.0	0.87	1150	0.41	0.53	15.0	47.8
L828482		4.92	29.0	0.13	4.9	0.02	0.095	3.37	12.0	77.2	0.77	2710	7.83	0.37	35.5	43.4
L828483		5.28	28.2	0.14	4.7	0.02	0.086	3.42	10.0	75.7	0.77	3770	8.93	0.39	34.9	44.8
L828484		4.78	29.9	0.10	4.7	<0.01	0.099	3.46	9.7	78.9	0.74	3010	8.16	0.41	36.0	46.9
L828485		5.42	27.8	0.19	4.3	0.02	0.090	3.34	17.2	71.5	0.95	5250	9.40	0.39	31.6	42.2
L828486		4.52	28.4	0.14	2.6	0.01	0.070	2.64	7.9	102.5	1.00	569	0.62	0.63	15.2	56.2
L828487		4.71	29.0	0.14	3.1	0.01	0.085	2.81	11.0	96.8	1.03	800	1.27	0.58	17.0	50.9
L828488		4.77	26.3	0.22	2.9	<0.01	0.079	2.64	8.8	91.1	1.00	459	0.59	0.54	14.6	50.2
L828489		4.49	27.3	0.18	2.9	<0.01	0.075	2.58	10.0	96.5	0.96	448	0.48	0.60	15.2	48.2
L828490		4.96	27.0	0.12	2.7	<0.01	0.069	2.69	8.0	126.5	0.97	574	0.65	0.57	15.1	45.6
L828491		5.54	27.5	0.13	2.8	<0.01	0.071	2.83	8.7	118.5	1.01	657	0.48	0.48	15.4	46.4
L828492		5.79	28.4	0.10	2.4	<0.01	0.072	2.79	6.9	125.5	0.98	704	0.34	0.50	15.2	47.1
L828493		5.25	29.2	0.12	3.1	<0.01	0.096	2.84	30.7	112.0	1.03	795	0.87	0.57	16.6	47.0
L828494		4.60	16.60	0.11	2.9	0.08	0.066	1.90	36.8	48.5	1.26	667	0.95	0.51	11.8	39.4
L828495		4.74	17.30	0.12	2.7	0.08	0.069	1.97	36.3	50.3	1.17	656	1.31	0.50	11.5	42.4
L828496		5.81	19.35	0.17	3.0	0.07	0.080	2.15	40.8	61.5	0.91	741	2.62	0.40	11.7	52.8
L828497		4.53	17.90	0.11	2.8	0.06	0.079	2.14	34.7	57.5	1.15	577	1.37	0.42	11.6	48.9
L828498		4.00	17.55	0.10	3.2	0.04	0.065	2.02	40.5	55.2	1.27	961	1.13	0.33	17.0	39.9
L828499		4.22	18.10	0.11	3.0	0.04	0.072	2.10	38.6	57.2	1.15	810	1.20	0.35	16.3	44.8
L828500		4.76	24.5	0.15	4.6	0.02	0.097	2.81	38.4	73.0	1.07	1400	0.58	0.44	32.5	39.7
.999800		5.23	25.9	0.17	4.9	0.02	0.113	3.03	46.8	71.3	1.13	1140	0.63	0.43	34.0	40.1
.999801		5.56	25.1	0.35	5.0	0.02	0.108	3.21	58.4	72.6	1.23	1450	0.99	0.44	30.7	39.4
.999802		4.83	21.0	0.12	4.2	0.02	0.097	2.65	48.1	62.3	1.10	1420	0.97	0.39	26.5	37.7
.999803		5.79	26.4	0.18	3.7	0.01	0.091	3.07	38.1	69.7	0.89	687	0.35	0.38	27.7	46.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
L828465		630	35.9	103.5	0.002	0.19	0.49	15.5	1	3.4	143.0	1.59	0.11	11.5	0.513	1.25	
L828466		640	30.4	105.0	<0.002	0.18	0.49	15.9	2	3.4	146.0	1.71	0.11	11.3	0.538	1.17	
L828467		660	29.2	116.0	0.002	0.15	0.54	16.6	1	3.3	154.0	1.66	0.13	12.2	0.547	1.39	
L828468		630	22.3	97.0	<0.002	0.16	0.36	15.2	1	3.3	175.5	1.68	0.09	11.1	0.536	0.79	
L828469		610	28.1	91.2	<0.002	0.37	0.41	14.6	1	2.8	222	1.51	0.10	12.9	0.502	0.68	
L828470		1060	21.9	107.5	<0.002	0.07	1.44	15.7	1	2.1	185.5	0.89	0.07	11.0	0.441	17.60	
L828471		910	18.8	94.1	<0.002	0.06	1.40	14.4	1	1.8	184.0	0.87	0.07	10.5	0.425	15.35	
L828472		540	52.7	81.5	0.003	0.01	0.79	16.5	1	3.2	115.5	1.25	<0.05	11.3	0.459	3.11	
L828473		600	91.8	71.8	0.003	0.01	0.79	16.6	1	3.3	116.5	1.18	<0.05	9.7	0.446	3.55	
L828474		480	33.2	82.5	0.002	0.01	0.69	16.8	1	3.4	108.0	1.13	0.05	9.6	0.427	2.68	
L828475		460	23.6	65.6	<0.002	0.01	0.62	15.3	1	3.6	103.5	1.16	0.06	6.5	0.416	1.18	
L828476		440	20.7	65.9	<0.002	0.06	0.70	14.9	1	3.4	103.5	1.18	0.05	7.1	0.433	1.43	
L828477		470	21.2	72.9	<0.002	0.06	0.70	15.6	1	3.5	112.5	1.15	<0.05	8.1	0.436	1.54	
L828478		420	286	96.2	<0.002	0.03	0.65	17.8	1	3.7	110.5	1.31	0.06	8.8	0.484	0.84	
L828479		410	80.3	70.0	0.002	0.03	0.62	15.0	1	3.4	97.3	1.18	0.05	7.0	0.433	1.58	
L828480		440	31.7	81.0	<0.002	0.04	0.61	15.8	1	3.4	118.5	1.12	<0.05	6.7	0.435	1.13	
L828481		420	20.8	83.1	<0.002	0.04	0.62	15.6	<1	3.5	163.5	1.08	0.07	10.3	0.401	1.32	
L828482		610	33.8	122.0	0.004	0.03	2.12	16.9	1	4.0	92.3	2.16	0.19	8.5	0.695	1.10	
L828483		700	41.1	114.5	0.002	0.03	2.31	16.7	1	3.9	92.8	2.03	0.14	8.0	0.702	1.17	
L828484		580	45.4	118.0	0.002	0.05	2.80	17.1	1	4.4	100.5	2.04	0.18	7.5	0.717	1.16	
L828485		580	102.5	104.5	0.003	0.11	2.82	15.7	1	3.6	99.8	1.93	0.23	9.4	0.672	0.99	
L828486		420	36.2	70.1	<0.002	0.04	0.72	15.8	1	3.5	83.0	1.12	<0.05	6.7	0.421	0.75	
L828487		420	59.5	83.3	<0.002	0.05	0.86	16.7	1	3.6	89.5	1.25	0.07	8.3	0.454	0.81	
L828488		350	30.1	61.4	<0.002	0.04	0.51	14.1	1	3.4	77.0	1.12	0.05	7.0	0.429	0.75	
L828489		380	32.7	65.7	<0.002	0.03	0.55	14.6	1	3.5	83.3	1.17	<0.05	7.1	0.428	0.70	
L828490		440	44.0	69.8	<0.002	0.05	0.59	14.8	1	3.4	92.0	1.19	<0.05	7.1	0.434	0.77	
L828491		430	29.5	73.0	0.003	0.09	0.51	14.8	1	3.4	90.1	1.22	0.05	7.3	0.446	0.75	
L828492		390	23.8	66.2	<0.002	0.02	0.51	15.7	1	3.4	92.7	1.15	<0.05	6.6	0.431	0.76	
L828493		440	47.8	108.5	<0.002	0.03	0.48	16.7	2	3.5	114.0	1.24	0.07	12.9	0.455	0.71	
L828494		690	19.6	98.1	0.002	0.03	0.69	14.1	2	2.0	166.5	0.81	0.09	11.2	0.424	0.53	
L828495		770	19.6	105.5	<0.002	0.04	0.68	14.4	2	2.1	176.0	0.78	0.08	10.6	0.419	0.55	
L828496		1280	18.3	131.0	0.003	0.39	0.76	15.3	3	2.5	116.5	0.80	0.08	11.1	0.433	0.72	
L828497		910	17.6	112.0	0.002	1.02	0.71	14.0	2	2.4	111.5	0.80	0.07	10.2	0.422	0.77	
L828498		830	18.2	116.0	<0.002	1.04	0.56	13.3	2	2.1	378	1.04	0.08	10.5	0.411	0.60	
L828499		820	17.8	115.0	0.002	1.08	0.62	13.5	2	2.3	236	1.00	0.10	10.6	0.441	0.68	
L828500		890	26.3	82.7	<0.002	0.71	0.41	13.9	3	3.3	163.5	2.00	0.19	12.6	0.675	0.71	
.999800		770	24.2	130.0	0.002	0.56	0.43	15.0	3	3.8	119.5	1.97	0.18	14.1	0.699	0.73	
.999801		800	29.6	143.0	<0.002	0.71	0.50	15.5	3	3.7	123.0	1.97	0.17	16.9	0.700	0.81	
.999802		790	25.0	104.5	0.002	0.77	0.49	13.3	3	3.1	180.5	1.63	0.14	13.5	0.581	0.66	
.999803		710	24.6	97.7	<0.002	0.02	0.28	13.9	2	3.3	125.5	1.67	0.13	13.5	0.563	0.61	





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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
L828465		2.5	100	1.7	16.5	159	139.0
L828466		2.4	103	1.8	16.9	159	150.0
L828467		2.5	105	1.8	17.8	159	148.5
L828468		2.3	103	1.8	14.9	129	131.0
L828469		2.2	96	1.7	17.7	136	125.0
L828470		2.9	138	1.3	23.7	482	95.1
L828471		2.8	128	1.2	20.4	429	85.1
L828472		2.1	106	2.1	14.1	143	86.5
L828473		2.9	114	2.0	13.4	159	84.7
L828474		2.7	98	2.1	13.1	124	87.7
L828475		2.4	93	2.2	8.5	100	82.8
L828476		2.2	96	2.5	9.2	115	86.4
L828477		2.0	93	2.4	11.5	123	86.5
L828478		5.3	119	2.3	10.6	96	103.5
L828479		3.0	101	2.1	8.9	115	89.4
L828480		2.2	100	2.4	8.7	116	80.9
L828481		1.8	86	2.4	13.3	110	79.2
L828482		3.2	140	2.4	12.5	159	187.0
L828483		3.4	143	2.4	11.3	205	180.5
L828484		3.4	148	2.5	11.8	162	186.5
L828485		3.1	141	2.3	18.0	236	168.0
L828486		1.9	99	1.7	8.6	107	86.5
L828487		2.7	105	2.0	10.9	112	104.0
L828488		2.0	107	1.8	8.6	107	92.3
L828489		2.1	109	1.9	9.1	102	93.5
L828490		3.1	100	2.1	8.4	106	83.1
L828491		1.8	97	2.4	9.3	109	83.4
L828492		1.6	89	2.1	7.7	105	79.7
L828493		3.0	115	2.2	15.2	95	88.8
L828494		2.5	119	1.2	19.0	115	97.0
L828495		2.5	128	1.1	19.2	124	90.6
L828496		2.8	152	1.3	24.4	152	101.0
L828497		2.6	145	1.3	18.3	147	91.0
L828498		2.5	109	1.2	20.9	125	113.5
L828499		2.4	125	1.3	19.3	132	106.5
L828500		2.6	123	1.9	20.2	109	164.5
.999800		2.8	133	2.1	22.2	129	176.0
.999801		3.0	134	2.1	23.1	129	166.5
.999802		2.6	115	1.8	21.5	130	146.0
.999803		2.4	106	1.6	16.5	120	133.0



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
.999804		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999805		0.58	<0.01	0.10	9.91	5.2	810	3.05	0.34	1.11	0.02	74.3	19.2	90	8.87	29.1
.999806		0.63	<0.01	0.08	10.05	4.9	840	2.82	0.31	1.57	0.03	84.3	19.5	92	7.96	29.9
.999807		0.61	<0.01	0.07	10.80	4.7	920	3.04	0.33	1.49	0.04	90.0	19.1	95	9.17	29.5
.999808		0.63	<0.01	0.10	10.75	3.9	930	3.24	0.32	1.12	0.03	98.8	19.0	97	9.88	29.0
.999809		0.69	<0.01	0.08	10.65	4.1	910	3.08	0.32	1.23	0.04	118.0	18.0	94	9.77	29.2
.999810		0.69	<0.01	0.10	10.20	4.6	880	2.80	0.32	0.91	0.02	114.0	19.2	91	9.31	27.9
.999811		0.41	<0.01	0.09	10.30	5.8	880	3.19	0.34	1.01	0.02	70.0	20.0	96	9.74	29.8
.999812		0.55	<0.01	0.11	10.15	5.9	880	3.06	0.33	1.12	0.04	88.8	19.1	95	9.89	31.3
.999813		0.49	<0.01	0.09	10.20	5.1	860	3.15	0.33	1.08	0.03	97.3	19.6	93	10.40	30.5
.999813		0.62	<0.01	0.09	10.40	4.8	1060	3.03	0.32	0.92	0.02	111.5	19.3	94	10.50	30.1

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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999804		5.63	26.7	0.15	3.9	0.01	0.096	3.06	33.3	73.1	0.85	682	0.34	0.38	28.7	46.5
.999805		5.69	27.3	0.14	3.7	0.01	0.097	3.06	38.2	70.4	0.87	739	0.34	0.40	29.0	46.6
.999806		5.65	27.8	0.16	4.0	0.01	0.097	3.25	41.0	74.2	0.94	651	0.32	0.41	31.1	46.7
.999807		5.38	28.0	0.17	4.1	0.01	0.104	3.26	45.2	74.9	0.92	597	0.43	0.42	32.8	46.9
.999808		5.28	27.2	0.19	4.1	0.01	0.097	3.26	56.4	73.5	0.94	599	0.41	0.41	30.5	45.3
.999809		5.27	25.8	0.21	4.2	0.01	0.089	3.13	55.0	71.9	0.94	565	0.34	0.39	29.7	45.7
.999810		5.50	27.0	0.14	3.9	0.01	0.094	3.21	30.3	74.5	0.92	574	0.37	0.38	30.7	48.0
.999811		5.38	27.4	0.18	4.1	0.01	0.100	3.19	40.2	74.7	1.04	564	0.48	0.39	31.9	47.1
.999812		5.40	26.6	0.18	4.1	<0.01	0.095	3.17	45.5	77.8	1.12	570	0.41	0.37	33.1	48.0
.999813		5.42	26.9	0.19	4.3	<0.01	0.099	3.24	51.6	75.5	1.17	528	0.36	0.39	32.1	46.7

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**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME- MS61 P ppm 10	ME- MS61 Pb ppm 0.5	ME- MS61 Pb ppm 0.1	ME- MS61 Fe ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02
.999804		730	22.5	92.0	<0.002	0.02	0.27	13.6	2	3.4	120.5	1.78	0.14	12.5	0.567	0.64
.999805		730	24.7	96.1	<0.002	0.02	0.27	13.9	2	3.3	124.0	1.73	0.13	13.3	0.573	0.60
.999806		820	25.2	104.0	0.002	0.02	0.29	14.4	2	3.4	128.5	1.91	0.13	14.1	0.620	0.64
.999807		780	28.3	119.5	<0.002	0.03	0.34	13.5	2	3.6	122.5	1.90	0.13	14.9	0.609	0.65
.999808		760	26.2	126.5	0.002	0.03	0.30	14.1	2	3.4	121.0	1.88	0.15	17.0	0.606	0.65
.999809		760	23.2	123.5	<0.002	0.06	0.30	13.4	2	3.3	98.6	1.96	0.12	16.7	0.608	0.64
.999810		770	23.2	96.7	<0.002	0.06	0.29	13.6	2	3.4	110.5	1.93	0.13	11.8	0.605	0.65
.999811		860	26.8	100.5	<0.002	0.12	0.30	13.6	2	3.5	112.5	1.94	0.16	13.5	0.624	0.64
.999812		830	29.8	112.0	<0.002	0.14	0.31	13.8	2	3.5	109.0	1.93	0.14	14.7	0.630	0.68
.999813		820	23.8	119.0	<0.002	0.14	0.31	13.6	2	3.5	103.5	1.98	0.14	16.0	0.627	0.66

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 Account: RCM

Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
.999804		2.4	105	1.7	15.5	112	135.5
.999805		2.4	106	1.6	17.0	117	134.0
.999806		2.6	111	1.7	17.8	124	145.0
.999807		2.5	108	1.7	18.9	112	152.0
.999808		2.5	107	1.7	19.8	114	143.5
.999809		2.5	101	1.7	19.1	118	142.5
.999810		2.4	108	1.7	14.0	119	134.5
.999811		2.6	108	1.7	17.9	121	147.5
.999812		2.7	105	1.7	19.1	127	155.0
.999813		2.7	107	1.8	19.2	116	153.0



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Project: Rackla Gold (Rackla)

**CERTIFICATE OF ANALYSIS WH12104027**

Method	CERTIFICATE COMMENTS
ME- MS61 Hg- CV41	REE's may not be totally soluble in this method.  Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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 Account: RCM

**CERTIFICATE WH12107683**

Project: Rackla Gold  
 P.O. No.: Area D - Py/ Ag  
 This report is for 65 Rock samples submitted to our lab in Whitehorse, YT, Canada on 18- MAY- 2012.  
 The following have access to data associated with this certificate:

JULIA LANE	JOAN MARIACHER
------------	----------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% < 75 um

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K976443		1.02	<0.01	0.06	8.91	16.7	510	2.36	0.27	0.97	0.13	83.8	19.8	88	7.21	35.1
K976444		0.64	0.01	0.04	9.24	16.3	550	2.50	0.27	0.84	0.11	89.8	19.7	92	7.47	37.2
K976445		0.96	0.01	0.06	9.11	16.1	570	2.69	0.29	0.85	0.12	79.7	20.6	92	8.36	32.8
K976446		0.80	<0.01	0.06	9.34	16.3	550	2.79	0.27	0.74	0.12	89.0	20.8	92	8.91	35.8
K976447		0.83	<0.01	0.13	8.21	14.5	680	2.31	0.25	0.28	0.26	80.9	22.3	88	10.75	33.2
K976448		0.66	<0.01	0.05	8.51	14.5	650	2.40	0.26	0.27	0.11	75.3	18.3	90	25.8	33.5
K976449		0.82	<0.01	0.05	8.27	13.9	620	2.11	0.24	0.36	0.17	72.7	18.5	87	29.9	37.7
K976450		0.66	<0.01	0.07	9.14	17.0	720	2.63	0.26	0.36	0.14	82.4	19.7	95	43.2	40.5
K976451		0.70	0.02	0.08	9.07	19.5	710	2.89	0.28	0.32	0.14	82.0	20.6	96	46.6	39.7
K976452		0.60	0.02	0.08	8.73	12.7	600	2.19	0.25	0.63	0.11	89.1	19.2	91	30.3	33.6
K976453		0.51	<0.01	0.05	7.49	12.5	540	1.79	0.23	0.72	0.11	71.7	15.3	74	24.8	28.1
K976454		0.67	<0.01	0.04	5.47	10.3	310	1.36	0.14	3.42	0.06	57.6	11.2	58	19.75	16.9
K976455		0.63	<0.01	0.05	5.76	8.4	320	1.48	0.15	3.92	0.06	60.8	11.7	60	20.5	16.6
K976456		0.71	0.01	0.05	8.23	10.4	490	2.44	0.25	1.45	0.09	82.9	16.3	85	60.2	26.2
K976457		0.58	<0.01	0.08	9.27	11.6	590	2.92	0.31	0.82	0.12	87.8	21.6	98	63.0	31.5
K976458		0.78	<0.01	0.07	7.95	8.4	440	2.24	0.23	1.07	0.15	79.4	18.1	84	35.4	27.5
K976459		0.62	0.01	0.06	7.94	7.6	440	2.50	0.24	0.97	0.15	82.2	18.4	86	37.6	26.7
K976460		0.63	<0.01	0.07	8.41	7.8	450	2.64	0.27	0.85	0.11	91.3	18.3	89	37.7	30.4
K976461		0.91	<0.01	0.05	8.59	8.2	440	2.36	0.25	1.19	0.08	86.7	18.4	89	40.1	27.1
K976462		1.14	<0.01	0.05	7.73	6.6	450	2.20	0.27	0.79	0.14	81.1	17.8	87	29.6	33.8
K976463		0.93	<0.01	0.04	8.15	7.3	460	2.25	0.27	0.81	0.11	79.7	17.9	87	30.9	34.2
K976464		0.99	<0.01	0.06	8.31	6.6	470	2.28	0.26	0.97	0.10	81.4	17.2	89	30.4	34.8
K976465		0.86	<0.01	0.06	8.39	6.9	490	2.38	0.29	0.68	0.12	86.8	18.1	89	33.6	33.8
K976466		0.75	<0.01	0.05	8.77	7.5	500	2.63	0.29	0.55	0.10	86.0	18.0	96	36.5	36.2
K976467		1.10	<0.01	0.09	8.32	6.8	460	2.52	0.28	0.81	0.15	88.9	18.3	87	35.2	34.9
K976468		1.03	0.01	0.05	9.04	7.5	530	2.86	0.33	0.49	0.12	90.7	21.5	99	40.7	41.5
K976469		1.13	<0.01	0.06	9.28	7.3	540	2.83	0.32	0.48	0.09	90.2	21.3	99	38.8	38.5
K976470		0.88	0.02	0.06	8.69	6.4	480	2.39	0.28	0.61	0.09	80.7	20.7	93	33.4	43.5
K976471		1.22	<0.01	0.05	8.03	5.2	440	2.25	0.25	0.77	0.15	79.3	18.9	85	32.8	36.4
K976472		0.38	<0.01	0.06	5.59	21.6	590	1.96	0.18	0.23	0.33	68.9	25.2	67	4.55	39.4
K976473		0.76	0.01	0.10	6.67	16.3	530	1.93	0.22	0.26	0.30	74.6	18.8	77	5.64	45.4
K976474		0.79	0.01	0.08	9.34	15.2	590	3.00	0.31	0.30	0.25	86.3	24.0	97	9.64	41.6
K976475		0.62	<0.01	0.06	9.48	14.2	610	3.06	0.33	0.24	0.07	75.2	44.1	98	10.70	38.7
K976476		0.84	<0.01	0.06	9.35	12.3	530	2.91	0.30	0.23	0.07	75.2	28.5	96	10.45	38.2
K976477		0.76	<0.01	0.06	9.48	13.8	560	2.94	0.31	0.28	0.10	89.4	20.0	99	10.90	38.3
K976478		0.71	<0.01	0.07	9.76	14.6	580	2.93	0.31	0.25	0.11	91.1	22.5	103	10.95	38.8
K976479		0.76	<0.01	0.05	9.53	15.1	540	3.07	0.31	0.40	0.13	86.3	23.0	101	11.55	39.3
K976480		0.58	<0.01	0.09	9.76	14.0	520	3.12	0.30	0.63	0.19	94.3	23.2	101	11.15	40.9
K976481		0.88	<0.01	0.07	9.04	14.7	540	2.81	0.27	0.41	0.11	87.8	21.3	94	10.95	36.2
K976482		0.60	<0.01	0.06	8.91	14.3	540	2.54	0.28	0.43	0.09	84.2	19.9	94	10.35	33.9

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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K976443		4.65	22.7	0.16	3.0	0.03	0.074	2.29	45.2	70.7	1.24	648	1.61	0.45	12.7	61.6
K976444		4.65	23.1	0.16	2.9	<0.1	0.078	2.39	46.2	73.1	1.25	551	1.45	0.48	13.1	60.0
K976445		4.74	24.2	0.15	2.9	<0.1	0.078	2.41	42.5	76.7	1.26	593	1.35	0.45	13.1	62.8
K976446		4.92	24.6	0.16	2.9	<1	0.086	2.47	46.5	75.7	1.26	534	1.17	0.45	13.7	64.5
K976447		4.90	21.7	0.14	2.8	<0.1	0.076	2.09	42.7	74.1	0.94	402	1.39	0.38	12.7	55.7
K976448		4.89	22.2	0.13	2.9	0.02	0.079	2.24	38.6	82.2	1.06	406	1.11	0.35	12.7	59.2
K976449		5.01	20.9	0.16	2.7	<1	0.079	2.15	39.8	84.7	1.09	405	1.29	0.31	11.9	60.7
K976450		4.93	24.2	0.12	3.3	<1	0.084	2.61	43.8	74.8	1.21	597	1.73	0.34	13.5	67.9
K976451		4.76	24.6	0.13	3.1	1	0.089	2.68	42.6	73.1	1.15	387	1.89	0.33	13.6	69.4
K976452		4.31	23.4	0.19	2.7	<1	0.082	2.39	46.4	81.3	1.14	447	0.91	0.34	12.5	59.7
K976453		4.08	18.60	0.13	2.4	<1	0.067	1.96	37.7	74.6	1.07	487	0.80	0.30	10.1	47.1
K976454		3.99	12.95	0.12	2.0	<1	0.042	1.42	28.5	48.0	1.59	1920	0.82	0.26	8.0	32.6
K976455		4.30	13.50	0.13	2.7	<1	0.045	1.50	31.6	47.6	1.75	2180	0.66	0.29	8.6	33.4
K976456		4.52	20.8	0.16	3.0	0.02	0.073	2.09	44.1	77.7	1.35	659	0.87	0.28	12.0	54.6
K976457		4.58	25.5	0.17	2.9	0.03	0.085	2.49	44.4	84.6	1.22	399	0.91	0.36	12.9	60.4
K976458		4.40	21.7	0.16	2.7	0.02	0.076	2.13	39.5	73.7	1.28	499	0.77	0.30	11.0	49.1
K976459		4.32	21.3	0.13	2.7	0.02	0.069	2.20	41.6	66.4	1.21	439	0.76	0.31	11.5	50.5
K976460		3.85	24.0	0.16	2.7	0.02	0.084	2.34	44.7	77.6	1.13	364	0.57	0.33	12.3	50.3
K976461		4.11	23.4	0.16	3.4	0.02	0.076	2.32	44.5	80.9	1.28	503	0.66	0.33	12.5	49.9
K976462		4.28	22.0	0.16	2.9	0.01	0.085	2.24	40.5	77.2	1.24	585	0.56	0.29	11.9	50.9
K976463		4.34	22.1	0.12	2.7	0.01	0.078	2.23	41.3	75.7	1.23	608	0.59	0.29	11.2	49.6
K976464		4.48	21.9	0.16	3.3	0.01	0.065	2.28	41.0	75.0	1.30	651	0.56	0.30	11.3	50.2
K976465		4.39	23.4	0.15	2.8	0.01	0.080	2.30	42.8	77.5	1.22	579	0.55	0.31	11.9	49.8
K976466		4.12	24.5	0.17	2.7	0.01	0.089	2.49	40.3	84.5	1.15	563	0.69	0.36	12.4	51.7
K976467		4.30	23.8	0.17	2.9	0.01	0.087	2.23	43.4	86.7	1.23	675	0.69	0.34	12.3	51.9
K976468		4.66	27.1	0.17	2.8	0.01	0.104	2.52	46.4	87.0	1.25	514	0.43	0.37	13.2	59.9
K976469		5.07	25.6	0.16	2.7	0.01	0.102	2.52	43.8	84.2	1.32	611	0.49	0.37	12.6	60.2
K976470		5.00	23.2	0.15	2.6	0.01	0.091	2.24	39.3	79.6	1.48	572	0.51	0.49	11.5	60.3
K976471		4.67	22.0	0.14	2.7	0.01	0.090	2.13	39.3	80.4	1.32	612	0.49	0.30	11.1	51.5
K976472		5.02	16.70	0.15	2.3	<0.1	0.063	1.41	33.7	63.7	0.97	1100	1.25	0.42	9.6	70.1
K976473		4.67	18.90	0.13	2.5	1.13	0.064	1.72	35.3	65.3	1.01	575	1.07	0.42	10.6	55.1
K976474		5.16	26.6	0.17	2.7	0.03	0.087	2.48	43.2	81.7	1.13	1700	0.81	0.40	12.7	131.5
K976475		5.07	27.4	0.16	2.6	0.02	0.085	2.62	35.7	80.3	1.11	3720	0.69	0.40	12.3	79.9
K976476		4.96	27.3	0.16	2.7	0.02	0.083	2.53	37.6	82.8	1.13	1520	0.65	0.39	12.2	65.0
K976477		5.02	27.4	0.15	2.7	0.03	0.089	2.54	41.8	88.3	1.23	409	0.72	0.37	12.8	64.0
K976478		4.99	27.9	0.16	2.8	0.03	0.083	2.67	46.0	83.3	1.24	479	0.85	0.39	13.7	66.9
K976479		4.92	29.1	0.15	2.8	0.02	0.092	2.59	43.2	92.5	1.32	478	0.87	0.38	13.8	67.5
K976480		5.11	28.2	0.17	2.8	0.03	0.095	2.65	46.3	105.0	1.36	599	1.56	0.36	13.2	66.1
K976481		4.85	25.8	0.14	2.7	0.03	0.078	2.52	45.1	84.7	1.25	393	1.08	0.35	12.5	59.3
K976482		4.84	24.4	0.16	2.5	0.02	0.084	2.46	39.6	79.7	1.28	506	0.80	0.34	12.1	56.2

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K976443		880	31.8	153.5	<0.002	0.86	1.42	18.5	2	2.8	95.9	0.94	<0.05	13.4	0.437	0.95
K976444		840	26.0	154.0	<0.002	0.72	1.26	18.6	1	2.8	97.0	0.98	<0.05	13.8	0.451	0.96
K976445		880	25.3	151.0	<0.002	1.07	1.08	19.4	1	3.0	99.6	0.96	<0.05	12.9	0.440	1.06
K976446		840	24.1	167.5	<0.002	1.16	1.17	20.0	<1	3.0	99.6	0.98	<0.05	13.6	0.451	1.00
K976447		790	19.8	153.0	<0.002	0.04	0.71	18.2	2	2.6	82.2	0.88	<0.05	12.3	0.423	0.96
K976448		820	19.2	150.5	<0.002	0.19	0.69	18.4	2	2.7	75.9	0.93	0.08	12.0	0.440	0.99
K976449		800	19.1	153.0	<0.002	0.74	0.73	17.5	1	2.5	77.6	0.82	<0.05	11.7	0.424	1.17
K976450		780	21.8	177.0	<0.002	1.29	0.80	19.8	1	2.8	82.9	0.96	<0.05	13.3	0.477	1.74
K976451		810	23.9	182.0	<0.002	1.67	0.87	20.2	2	2.9	83.3	0.94	<0.05	13.0	0.474	1.99
K976452		790	19.2	165.5	<0.002	1.02	0.70	18.6	1	2.8	81.2	0.88	<0.05	13.0	0.419	1.39
K976453		760	16.5	135.5	<0.002	0.96	0.54	15.5	1	2.2	69.8	0.73	<0.05	11.6	0.359	1.18
K976454		550	12.5	97.1	<0.002	0.71	0.50	10.4	1	1.7	112.0	0.58	<0.05	8.8	0.285	0.79
K976455		570	13.6	101.0	<0.002	0.85	0.55	10.6	1	1.8	130.5	0.62	<0.05	9.4	0.300	0.75
K976456		720	23.9	159.0	<0.002	1.07	0.73	16.8	1	2.5	126.5	0.90	<0.05	13.0	0.418	1.28
K976457		780	28.7	168.0	<0.002	1.36	0.97	18.6	1	3.2	105.0	0.93	0.06	13.3	0.458	1.61
K976458		810	20.7	146.5	<0.002	0.86	0.75	16.4	1	2.7	85.8	0.80	<0.05	11.6	0.405	1.21
K976459		840	25.4	146.5	<0.002	1.03	0.82	16.3	2	2.7	86.2	0.84	<0.05	11.9	0.410	1.27
K976460		830	18.8	169.5	<0.002	0.74	0.73	17.6	1	2.9	88.4	0.85	<0.05	12.6	0.420	1.25
K976461		820	16.6	155.5	<0.002	0.67	0.68	17.8	1	2.9	116.0	0.84	<0.05	12.3	0.430	1.21
K976462		750	22.5	146.5	<0.002	0.28	0.51	15.8	2	2.8	90.9	0.91	<0.05	11.9	0.422	1.05
K976463		760	18.5	149.5	<0.002	0.28	0.47	17.2	1	2.8	92.5	0.80	<0.05	12.1	0.410	1.01
K976464		790	21.8	145.5	<0.002	0.28	0.47	16.7	2	2.7	99.3	0.81	<0.05	11.8	0.419	1.04
K976465		810	28.3	155.0	<0.002	0.22	0.46	17.2	2	2.8	91.3	0.89	<0.05	12.6	0.424	1.00
K976466		840	17.2	152.5	<0.002	0.16	0.47	17.8	1	3.0	91.9	0.89	<0.05	11.9	0.439	1.05
K976467		820	15.3	159.5	<0.002	0.17	0.48	18.5	3	3.0	98.1	0.83	<0.05	12.4	0.418	0.88
K976468		790	16.6	166.5	<0.002	0.10	0.41	19.1	1	3.3	99.9	0.89	0.06	12.9	0.447	1.08
K976469		880	18.9	162.0	<0.002	0.14	0.44	19.1	2	3.2	99.3	0.90	<0.05	12.5	0.454	1.07
K976470		790	17.8	141.0	<0.002	0.16	0.41	18.0	1	2.9	88.3	0.83	<0.05	11.7	0.463	0.99
K976471		750	21.3	147.5	<0.002	0.14	0.42	17.2	1	2.7	98.2	0.84	<0.05	11.4	0.405	0.89
K976472		780	16.4	92.8	<0.002	0.03	0.78	14.4	2	1.8	63.5	0.68	<0.05	8.7	0.364	0.56
K976473		720	17.8	110.0	<0.002	0.02	0.77	16.2	1	2.3	73.1	0.74	<0.05	10.0	0.415	0.72
K976474		750	28.5	156.5	<0.002	0.02	0.95	19.7	2	3.2	94.0	0.89	<0.05	12.7	0.447	1.10
K976475		680	25.6	156.0	<0.002	0.16	0.90	19.6	2	3.2	93.9	0.88	<0.05	11.2	0.438	1.14
K976476		670	22.8	151.5	<0.002	0.29	0.84	19.9	1	3.2	91.5	0.91	<0.05	11.6	0.430	1.03
K976477		680	23.2	161.5	<0.002	1.02	0.92	20.4	1	3.2	95.0	0.89	<0.05	12.7	0.444	1.04
K976478		710	23.4	172.5	<0.002	1.19	0.88	20.7	1	3.3	97.1	0.94	<0.05	13.2	0.470	1.18
K976479		750	25.9	166.5	<0.002	1.14	1.01	20.8	1	3.5	107.5	0.93	<0.05	12.0	0.451	1.14
K976480		810	24.3	172.5	0.002	1.41	0.93	20.5	3	3.4	109.5	0.92	<0.05	12.8	0.454	1.28
K976481		670	24.2	165.5	<0.002	1.43	0.86	19.1	2	3.2	107.5	0.87	<0.05	12.7	0.442	1.06
K976482		690	23.0	152.0	<0.002	1.19	0.78	18.0	2	3.0	103.0	0.83	<0.05	12.2	0.435	1.01



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**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K976443		3.4	146	1.5	20.9	155	93.0
K976444		3.5	151	1.7	19.7	139	90.2
K976445		3.2	152	1.6	19.9	139	90.9
K976446		3.3	153	1.6	20.7	138	93.7
K976447		3.2	153	1.5	19.5	143	97.0
K976448		3.0	155	1.5	18.9	131	94.4
K976449		3.0	160	1.4	18.3	155	87.1
K976450		3.5	182	1.6	20.3	154	105.5
K976451		3.5	185	1.6	20.6	146	103.0
K976452		2.9	152	1.4	18.5	133	92.5
K976453		2.6	128	1.3	16.1	125	76.3
K976454		2.0	88	1.0	16.6	81	62.6
K976455		2.1	91	1.1	17.2	78	88.5
K976456		3.0	133	1.6	23.5	108	91.4
K976457		3.0	154	1.5	20.7	132	98.2
K976458		2.6	124	1.3	19.8	136	94.8
K976459		2.8	126	1.3	20.3	127	91.4
K976460		2.7	133	1.3	21.2	126	91.7
K976461		2.8	137	1.3	21.4	106	105.0
K976462		2.8	134	1.4	18.4	134	92.1
K976463		2.7	136	1.3	18.8	127	107.5
K976464		2.7	140	1.2	19.1	130	92.1
K976465		2.9	139	1.3	21.6	140	93.6
K976466		2.8	149	1.3	19.8	129	91.9
K976467		2.8	138	1.2	22.1	148	100.5
K976468		2.9	155	1.4	20.1	136	96.2
K976469		2.9	158	1.3	20.6	127	93.2
K976470		2.7	160	1.3	19.1	132	88.0
K976471		2.7	132	1.2	19.8	148	89.6
K976472		2.3	123	0.9	22.5	192	90.3
K976473		2.4	136	1.1	21.5	141	86.6
K976474		2.9	159	1.4	22.3	170	94.5
K976475		2.7	166	1.3	16.9	140	89.1
K976476		2.7	160	1.4	17.4	139	90.1
K976477		2.8	162	1.4	20.5	134	94.0
K976478		2.9	168	1.3	20.0	131	100.0
K976479		2.8	164	1.4	20.0	152	97.0
K976480		2.9	170	1.4	20.6	149	93.1
K976481		2.9	156	1.3	20.0	145	93.0
K976482		2.7	152	1.3	18.8	133	88.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K976483		0.80	<0.01	0.06	9.19	15.3	530	2.92	0.28	0.36	0.11	79.4	21.4	95	11.50	36.4
K976484		0.83	<0.01	0.06	9.00	14.4	550	2.88	0.30	0.39	0.12	84.1	21.1	92	11.35	36.8
K976485		0.81	0.01	0.11	7.60	38.8	990	2.21	0.24	0.25	0.26	85.7	20.6	88	20.8	41.2
K976486		0.72	<0.01	0.07	9.35	25.2	700	2.71	0.30	0.34	0.16	89.0	23.5	100	21.1	36.3
K976487		0.90	0.01	0.07	8.75	48.9	650	2.46	0.26	0.96	0.17	86.0	22.1	91	19.70	34.5
K976488		0.81	<0.01	0.06	8.83	67.2	660	2.46	0.27	0.70	0.14	79.2	20.2	94	17.15	32.7
K976489		0.61	<0.01	0.08	8.74	113.0	630	2.46	0.28	0.89	0.21	83.9	19.9	90	17.30	35.8
K976490		0.79	<0.01	0.07	8.54	135.5	610	2.56	0.26	0.59	0.15	87.5	19.5	93	18.00	37.2
K976491		0.71	<0.01	0.06	8.53	162.5	530	2.27	0.27	0.97	0.14	77.3	17.4	91	16.70	33.2
K976492		0.48	<0.01	0.26	8.25	871	940	2.12	0.29	0.46	0.54	96.9	16.0	104	41.1	44.1
K976493		1.16	<0.01	0.21	8.68	681	420	2.11	0.28	0.44	0.15	102.0	15.7	115	27.0	44.3
K976494		0.67	<0.01	0.22	8.32	354	1670	2.06	0.27	0.35	0.12	102.5	14.2	104	21.2	36.0
K976495		0.61	<0.01	0.27	8.08	344	1400	2.18	0.27	0.39	0.13	102.0	14.4	101	19.40	37.3
K976496		0.70	<0.01	0.21	8.10	195.0	1450	2.14	0.27	0.42	0.13	104.0	14.0	103	18.85	35.3
K976497		0.85	<0.01	0.23	8.51	182.5	1370	2.09	0.27	0.41	0.13	102.0	15.4	109	17.75	38.0
K976498		0.76	<0.01	0.22	8.19	211	1660	2.19	0.26	0.36	0.17	100.5	14.5	104	25.3	35.3
K976499		0.80	<0.01	0.18	8.19	199.5	1820	2.11	0.27	0.35	0.12	100.5	14.2	103	19.05	36.0
K976500		0.76	0.01	0.19	8.19	213	170	2.21	0.31	0.37	0.16	99.9	14.0	104	20.5	39.2
I383801		0.74	<0.01	0.19	8.27	200	530	2.24	0.30	0.42	0.13	98.6	13.7	100	25.0	38.8
I383802		1.05	<0.01	0.21	8.18	1220	320	2.28	0.29	0.98	0.24	95.6	15.6	88	73.4	38.4
I383803		0.87	<0.01	0.23	8.09	893	570	2.10	0.24	1.19	0.56	87.8	17.3	86	34.9	39.1
I383804		0.86	<0.01	0.30	2.73	635	510	0.69	0.07	17.15	0.58	26.6	5.2	31	13.75	13.3
I383805		1.69	<0.01	0.17	1.00	277	240	0.33	0.03	20.2	0.33	10.60	2.4	12	8.07	5.2
I383806		0.40	0.01	0.16	2.12	117.0	6870	0.66	0.08	0.14	0.18	27.0	6.2	42	2.14	21.2
I383807		0.83	<0.01	0.14	0.37	31.8	1690	0.18	0.02	0.06	0.08	8.92	1.0	64	0.96	6.9

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K976483		4.79	26.7	0.15	2.8	0.03	0.083	2.64	36.9	77.0	1.24	433	0.90	0.41	12.9	59.8
K976484		4.79	25.9	0.18	2.7	0.03	0.080	2.55	41.0	79.2	1.22	455	0.92	0.39	12.5	59.0
K976485		4.76	21.7	0.18	2.7	0.25	0.063	2.06	43.0	70.0	0.79	501	1.20	0.40	11.7	55.9
K976486		5.34	26.2	0.16	2.8	0.04	0.094	2.55	44.2	60.8	0.85	550	1.31	0.33	12.2	67.6
K976487		4.91	24.3	0.14	2.7	0.1	0.078	2.38	43.2	54.4	1.07	905	1.23	0.30	11.4	66.7
K976488		4.64	24.5	0.15	2.6	0.04	0.082	2.62	42.3	62.3	1.12	536	1.17	0.31	11.5	59.2
K976489		4.97	23.8	0.16	2.6	0.04	0.085	2.53	42.4	52.8	1.18	747	1.17	0.29	11.2	59.4
K976490		4.59	24.7	0.16	2.7	0.03	0.073	2.34	42.9	65.7	1.09	445	1.67	0.26	12.2	59.0
K976491		4.57	21.8	0.15	2.9	0.02	0.080	2.10	40.3	56.2	1.15	614	0.99	0.28	10.7	49.2
K976492		2.91	24.3	0.16	2.7	2.57	0.076	2.51	47.7	45.3	0.51	164	2.45	0.15	26.5	43.7
K976493		3.32	24.0	0.17	3.4	1.25	0.083	2.92	49.4	48.8	0.43	110	1.65	0.14	32.2	49.9
K976494		3.87	21.9	0.18	3.2	0.42	0.079	2.66	50.1	62.6	0.62	307	1.44	0.18	30.6	42.1
K976495		4.39	22.3	0.20	3.2	0.54	0.083	2.63	51.4	65.7	0.69	343	1.47	0.18	31.0	43.4
K976496		3.90	22.5	0.19	3.3	0.32	0.083	2.69	52.7	72.4	0.68	420	1.69	0.17	29.7	40.7
K976497		4.49	23.0	0.20	3.2	0.30	0.085	2.84	50.9	67.3	0.75	437	2.02	0.17	31.5	44.1
K976498		3.69	21.7	0.19	3.2	0.45	0.083	2.67	50.1	61.8	0.69	364	1.52	0.18	29.4	41.1
K976499		3.48	22.3	0.18	3.1	0.29	0.081	2.65	50.6	61.7	0.68	349	1.39	0.18	30.3	40.6
K976500		5.72	22.8	0.20	3.0	0.78	0.078	2.42	47.0	62.1	0.63	300	1.64	0.19	28.6	41.3
I383801		4.95	22.9	0.19	2.8	0.40	0.073	2.55	49.7	56.9	0.69	375	1.63	0.16	29.4	39.5
I383802		4.90	22.1	0.15	2.8	1.20	0.075	2.51	46.4	55.3	0.80	499	3.63	0.15	22.5	47.3
I383803		4.76	21.3	0.19	3.0	1.92	0.079	2.54	43.7	58.1	0.92	520	3.66	0.17	22.5	53.6
I383804		1.78	6.25	0.08	1.1	2.92	0.031	0.84	13.4	19.1	9.48	518	1.86	0.05	6.5	15.6
I383805		0.75	2.31	0.07	0.4	2.39	0.012	0.30	5.4	7.4	11.30	247	0.68	0.02	2.1	6.7
I383806		1.78	5.40	0.08	1.0	8.13	0.024	0.52	20.0	23.8	0.33	231	1.03	0.15	4.1	17.8
I383807		0.62	1.22	<0.05	0.2	13.9	0.005	0.09	17.5	7.5	0.04	83	4.07	<0.01	0.7	4.7

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K976483		720	23.2	154.0	<0.002	1.49	0.87	19.0	1	3.1	108.5	0.94	<0.05	10.4	0.448	1.09
K976484		670	23.5	162.0	<0.002	1.52	0.81	19.2	2	3.1	107.5	0.87	<0.05	12.2	0.431	1.20
K976485		770	20.0	135.5	<0.002	0.04	0.94	16.9	1	2.5	89.7	0.82	<0.05	11.3	0.424	1.07
K976486		940	22.0	167.5	<0.002	0.91	0.80	19.7	1	3.0	108.5	0.87	<0.05	12.9	0.440	1.82
K976487		1170	19.7	156.5	<0.002	1.16	0.65	19.0	1	2.9	110.5	0.79	<0.05	11.7	0.421	1.73
K976488		860	19.2	158.5	<0.002	1.71	0.69	18.2	1	2.8	115.5	0.82	<0.05	11.5	0.430	2.09
K976489		900	20.9	163.5	<0.002	1.94	0.76	17.8	2	2.8	115.0	0.81	<0.05	11.8	0.424	1.85
K976490		840	18.3	150.5	<0.002	1.47	0.83	18.5	2	2.8	112.0	0.88	<0.05	12.4	0.440	1.88
K976491		770	19.3	125.5	<0.002	1.24	0.73	16.6	1	2.6	117.0	0.84	<0.05	11.8	0.422	1.63
K976492		1200	43.4	147.0	0.003	2.10	1.43	14.1	2	3.4	328	1.53	<0.05	12.2	0.463	8.88
K976493		1460	26.6	161.0	0.002	2.82	1.11	14.4	3	2.8	394	1.79	0.09	13.1	0.537	7.70
K976494		1370	22.2	154.0	0.003	1.17	1.15	16.6	3	2.7	431	1.79	0.10	13.1	0.506	2.90
K976495		1350	22.7	158.0	<0.002	1.16	1.37	18.4	3	2.7	332	1.74	0.11	13.1	0.490	3.45
K976496		1320	22.4	157.0	0.002	0.63	1.02	17.5	3	2.8	403	1.75	0.09	13.1	0.492	2.12
K976497		1480	22.7	156.0	0.002	0.59	1.28	17.5	3	2.8	380	1.77	0.10	13.2	0.512	2.09
K976498		1350	22.9	154.0	0.002	0.56	1.05	16.8	3	2.8	489	1.74	0.10	12.9	0.499	1.99
K976499		1340	20.0	156.0	0.002	0.47	0.99	16.9	3	2.7	559	1.70	0.12	12.7	0.492	1.78
K976500		1370	20.0	154.0	0.004	3.50	1.03	16.1	3	2.5	522	1.68	0.12	12.0	0.461	7.35
I383801		1330	20.7	150.5	0.006	1.83	0.89	15.0	2	2.6	309	1.67	0.09	12.1	0.470	3.12
I383802		1200	27.1	159.5	0.005	2.82	1.23	16.0	3	2.5	351	1.37	0.10	12.3	0.444	9.79
I383803		1290	35.4	148.0	0.003	2.48	1.20	17.0	3	2.7	420	1.31	0.08	12.0	0.462	6.73
I383804		390	19.4	43.2	<0.002	0.70	0.98	6.3	2	0.9	245	0.38	<0.05	3.9	0.143	4.31
I383805		160	17.5	16.8	0.002	0.24	0.82	3.4	1	0.3	189.0	0.12	<0.05	1.5	0.052	2.89
I383806		380	6.8	30.1	0.002	0.19	0.44	5.4	1	0.7	120.5	0.27	<0.05	3.7	0.167	0.64
I383807		200	2.5	5.1	0.005	0.05	0.25	0.8	1	0.3	131.0	0.05	<0.05	0.9	0.025	0.83



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**CERTIFICATE OF ANALYSIS WH12107683**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
K976483		2.5	162	1.2	19.0	129	90.5
K976484		2.8	156	1.4	19.1	139	90.1
K976485		2.8	152	1.2	22.6	144	91.8
K976486		3.1	171	1.3	20.5	324	94.1
K976487		3.0	158	1.3	22.1	184	99.3
K976488		2.9	164	1.4	17.9	136	83.9
K976489		3.1	163	1.3	19.2	175	88.5
K976490		3.3	168	1.4	19.8	137	96.4
K976491		3.0	152	1.2	18.8	149	89.5
K976492		4.4	199	3.8	25.5	179	92.6
K976493		3.7	212	4.2	27.9	144	121.0
K976494		3.2	204	2.5	23.7	137	109.5
K976495		3.2	198	2.3	25.6	125	112.5
K976496		3.2	200	2.2	24.7	117	113.0
K976497		3.2	212	2.1	26.0	140	113.5
K976498		3.3	201	2.2	23.3	137	113.0
K976499		3.1	203	2.1	22.9	123	112.0
K976500		3.2	200	2.2	22.4	131	102.0
I383801		3.1	199	1.9	23.0	133	101.0
I383802		3.9	177	2.9	22.8	163	93.8
I383803		4.1	170	3.1	23.5	204	108.5
I383804		2.4	57	1.9	8.2	145	39.0
I383805		1.7	24	1.1	3.8	103	14.9
I383806		1.8	51	0.6	9.0	52	34.4
I383807		1.7	13	0.3	4.1	7	6.2



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107683**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REEs may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12107684**

Project: Rackla Gold  
 P.O. No.: Area D - Py/ Ag  
 This report is for 78 Rock samples submitted to our lab in Whitehorse, YT, Canada on 18- MAY- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
.999913		0.91	0.02	0.24	8.20	42.5	850	2.30	0.29	1.37	0.34	84.7	23.0	93	9.19	53.6
.999914		0.51	0.01	0.15	5.65	983	430	1.49	0.20	0.52	0.72	73.6	14.7	48	4.19	40.0
.999915		0.38	<0.01	0.14	5.47	941	460	1.55	0.22	0.47	0.57	73.1	14.9	49	4.15	41.0
.999916		0.67	<0.01	0.10	7.15	1180	480	2.01	0.26	0.33	0.24	98.7	14.5	55	5.76	27.4
.999917		0.64	<0.01	0.11	8.69	1260	560	2.72	0.33	0.28	0.09	108.5	15.3	66	6.41	22.6
.999918		0.91	<0.01	0.08	9.04	462	520	2.65	0.37	0.30	0.09	113.0	16.3	71	6.34	30.5
.999919		0.71	<0.01	0.09	10.10	115.0	500	3.11	0.48	0.28	0.07	111.5	20.3	81	6.95	37.8
.999920		0.81	<0.01	0.08	9.53	105.0	470	2.75	0.39	0.58	0.06	126.0	17.0	74	6.80	28.4
.999921		0.74	<0.01	0.07	9.14	139.0	430	2.53	0.37	0.54	0.06	120.0	15.8	71	6.59	28.6
.999922		0.98	<0.01	0.07	9.25	51.9	480	2.53	0.38	0.37	0.04	123.0	16.3	73	6.39	29.3
.999923		0.92	0.01	0.09	8.82	48.9	420	2.34	0.35	0.66	0.04	117.0	16.9	68	6.12	24.1
.999924		0.78	<0.01	0.08	7.85	285	380	2.01	0.29	0.41	0.11	108.5	15.3	59	5.23	21.9
.999925		0.78	<0.01	0.08	8.42	224	410	2.23	0.33	0.39	0.13	114.5	15.0	64	5.79	29.9
.999926		1.21	<0.01	0.27	7.70	1610	660	2.11	0.25	0.35	2.72	82.5	18.8	86	13.35	36.9
.999927		0.65	<0.01	0.18	7.22	1930	740	1.86	0.25	0.47	2.26	77.6	19.7	82	11.65	35.2
.999928		0.79	<0.01	0.15	7.13	2470	630	1.96	0.23	0.44	2.83	80.7	18.4	78	10.90	35.4
.999929		0.64	<0.01	0.08	8.92	1510	500	2.72	0.39	0.29	0.34	120.0	17.6	69	6.59	31.0
.999930		0.68	<0.01	0.09	9.57	1385	520	2.98	0.46	0.24	0.25	73.2	19.1	80	6.65	35.4
.999931		1.10	0.01	0.07	8.98	1245	560	2.42	0.38	0.34	0.42	122.0	14.2	70	5.96	49.4
.999932		0.91	<0.01	0.06	9.49	970	630	2.54	0.43	0.37	0.21	117.5	16.7	74	6.01	32.4
.999933		0.81	<0.01	0.12	9.56	267	500	3.09	0.41	0.68	0.71	113.0	26.1	71	6.82	29.0
.999934		1.10	<0.01	0.16	9.64	330	490	3.21	0.40	0.85	0.86	107.0	37.0	74	7.35	44.8
.999935		0.98	<0.01	0.19	9.83	236	590	3.21	0.41	0.43	0.38	104.0	45.4	73	7.68	49.2
.999936		1.43	<0.01	0.17	9.86	164.0	550	3.24	0.44	0.36	0.37	107.0	48.4	78	7.68	43.6
.999937		0.69	<0.01	0.08	8.58	46.0	520	2.88	0.36	0.34	0.06	113.0	29.2	63	6.39	56.1
.999938		0.68	<0.01	0.22	6.97	848	860	2.08	0.22	0.38	0.69	73.9	22.3	83	8.02	34.4
.999939		0.66	<0.01	0.22	7.20	697	800	1.98	0.22	0.34	0.65	72.3	20.4	82	7.83	43.5
.999940		0.90	<0.01	0.16	6.78	811	850	2.02	0.23	0.38	0.52	74.0	19.4	74	5.63	37.8
.999941		0.74	<0.01	0.21	6.55	898	830	2.01	0.22	0.34	0.51	76.4	21.1	72	5.34	40.6
.999942		0.65	<0.01	0.13	9.74	533	620	3.09	0.42	0.21	0.27	83.9	25.5	85	9.00	45.8
.999943		0.81	<0.01	0.14	9.01	541	1170	2.82	0.36	0.24	0.35	100.0	26.8	82	8.21	44.4
.999944		1.01	<0.01	0.13	9.44	622	720	3.18	0.41	0.22	0.38	93.5	38.0	83	9.69	49.2
.999945		1.07	0.02	0.15	9.04	520	730	2.91	0.37	0.23	0.41	104.5	37.7	82	8.95	49.2
.999946		1.25	<0.01	0.08	8.82	219	580	2.97	0.37	0.22	0.14	95.5	37.9	68	9.33	63.5
.999947		0.76	<0.01	0.07	9.55	162.5	640	3.37	0.45	0.23	0.12	76.1	37.6	79	10.25	93.5
.999948		0.99	<0.01	0.07	9.32	86.2	580	3.23	0.43	0.21	0.06	82.3	18.5	78	10.40	40.4
K976401		0.64	<0.01	0.22	6.77	288	820	1.96	0.22	0.35	0.52	69.1	20.2	82	8.55	35.9
K976402		0.72	<0.01	0.20	6.89	416	720	2.06	0.29	0.33	0.33	77.8	18.8	72	8.24	42.2
K976403		0.67	<0.01	0.11	8.18	164.5	710	2.83	0.41	0.24	0.28	102.5	22.0	72	10.30	54.3
K976404		0.90	<0.01	0.10	8.96	109.0	720	3.11	0.40	0.55	0.10	90.3	24.0	79	13.95	17.9



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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
.999913		4.84	22.1	0.19	3.1	0.25	0.081	2.38	41.4	76.6	1.23	657	1.51	0.45	14.4	64.9
.999914		4.90	14.75	0.15	2.8	0.41	0.059	1.46	34.0	64.5	0.71	1050	0.73	0.58	9.3	35.9
.999915		4.70	14.70	0.16	2.8	0.26	0.058	1.43	34.2	63.1	0.69	1040	0.81	0.50	9.1	34.4
.999916		4.01	19.40	0.19	3.5	0.15	0.061	2.00	48.0	68.9	0.61	742	0.62	0.52	12.3	30.2
.999917		4.20	24.6	0.21	3.9	0.09	0.068	2.63	49.7	87.1	0.80	516	0.63	0.64	15.4	31.1
.999918		4.59	26.6	0.22	3.9	0.12	0.069	2.81	52.8	88.5	0.98	717	0.65	0.57	16.7	35.3
.999919		4.61	30.6	0.23	3.7	0.06	0.081	3.22	53.8	99.9	1.03	810	0.46	0.47	18.9	40.5
.999920		4.26	27.7	0.24	3.8	0.06	0.076	3.25	62.2	84.0	0.97	730	0.41	0.51	16.8	34.5
.999921		4.30	25.1	0.22	3.7	0.06	0.068	3.08	59.6	82.2	0.97	796	0.37	0.55	15.6	33.0
.999922		4.48	25.8	0.24	3.7	0.06	0.068	3.24	60.8	73.7	0.96	821	0.34	0.60	16.3	34.7
.999923		4.66	25.0	0.24	3.5	0.05	0.070	3.06	56.8	83.9	1.05	905	0.33	0.59	15.3	36.2
.999924		4.51	21.2	0.22	3.6	0.06	0.060	2.47	53.0	69.3	0.89	874	0.45	0.62	13.8	32.2
.999925		4.68	23.3	0.23	3.7	0.10	0.066	2.76	56.7	70.2	0.93	830	0.42	0.59	14.6	33.6
.999926		5.17	20.3	0.20	3.1	1.77	0.080	2.15	41.9	73.9	0.70	461	1.18	0.34	13.8	55.8
.999927		4.81	19.25	0.19	3.0	0.75	0.076	2.03	38.1	71.7	0.76	705	1.05	0.36	12.7	56.8
.999928		4.87	18.65	0.19	3.0	0.56	0.074	1.95	39.0	69.4	0.74	988	0.97	0.36	12.4	54.7
.999929		4.41	25.1	0.22	3.3	0.11	0.073	3.19	60.0	76.0	0.66	1280	0.63	0.40	16.2	37.8
.999930		4.16	28.7	0.19	3.6	0.12	0.084	3.72	32.1	77.6	0.65	913	0.57	0.37	18.8	39.2
.999931		6.35	25.3	0.25	3.4	0.13	0.076	3.11	58.5	83.9	0.75	3190	0.81	0.43	16.8	35.8
.999932		6.09	27.9	0.27	3.5	0.07	0.078	3.39	55.4	93.4	0.82	3100	0.70	0.43	18.5	36.0
.999933		4.43	26.7	0.24	3.1	0.16	0.077	3.36	52.2	79.1	1.00	1760	1.26	0.33	16.6	39.6
.999934		4.34	26.5	0.26	3.0	0.25	0.086	3.60	50.1	68.8	1.00	1700	1.60	0.28	16.3	50.1
.999935		4.34	26.9	0.24	3.2	0.23	0.075	3.57	49.0	65.0	0.94	945	4.24	0.27	16.5	51.9
.999936		4.14	28.0	0.25	3.3	0.20	0.088	3.69	49.0	69.5	0.94	771	3.24	0.28	17.8	48.9
.999937		5.59	24.8	0.29	3.0	0.05	0.059	2.93	51.7	69.2	1.17	2110	0.89	0.41	15.8	40.0
.999938		5.25	18.15	0.23	2.6	0.69	0.063	1.74	34.9	70.4	0.80	966	1.81	0.40	12.4	49.5
.999939		5.24	19.10	0.22	2.7	0.77	0.068	1.79	34.3	70.5	0.99	766	1.56	0.40	12.6	52.1
.999940		4.89	17.75	0.25	2.7	0.25	0.061	1.71	34.8	64.3	0.89	1380	1.72	0.48	11.5	48.8
.999941		4.75	17.45	0.25	2.8	0.14	0.060	1.73	35.8	57.4	0.90	1450	1.36	0.49	12.5	49.7
.999942		4.07	27.3	0.24	3.3	0.26	0.078	3.69	35.9	56.2	0.82	389	1.82	0.24	15.9	32.7
.999943		4.24	24.1	0.26	3.1	0.22	0.077	3.15	46.9	54.4	0.85	673	2.03	0.30	14.6	38.3
.999944		4.46	26.1	0.27	3.4	0.35	0.086	3.58	40.7	55.2	0.84	641	3.17	0.22	15.8	44.8
.999945		4.52	25.4	0.30	3.2	0.23	0.083	3.23	48.2	56.2	0.88	810	2.79	0.27	15.1	49.2
.999946		3.52	25.1	0.27	2.6	0.08	0.070	3.24	44.0	51.2	0.80	731	1.03	0.25	14.2	43.6
.999947		3.80	27.8	0.25	3.0	0.05	0.083	3.76	32.3	53.4	0.89	701	1.22	0.29	17.7	49.4
.999948		4.81	27.3	0.27	2.8	0.04	0.080	3.67	35.4	57.6	1.05	769	0.78	0.31	15.9	47.6
K976401		4.21	17.65	0.22	2.5	1.33	0.066	1.70	33.2	66.3	0.82	1680	1.44	0.37	12.4	55.1
K976402		4.94	18.15	0.24	2.7	1.25	0.062	1.83	36.7	69.0	0.75	2160	1.42	0.39	12.0	47.8
K976403		4.93	22.8	0.29	2.9	0.14	0.075	3.05	48.3	51.3	0.83	4220	1.23	0.32	14.2	57.7
K976404		5.51	24.4	0.26	2.6	0.07	0.074	3.70	42.1	41.5	1.04	3940	1.04	0.26	13.7	48.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02		
.999913		840	23.8	131.0	0.003	0.42	1.12	18.5	2	2.8	129.0	0.97	0.09	12.9	0.478	0.97	
.999914		530	41.0	81.3	<0.002	0.03	1.31	12.1	2	1.8	76.4	0.70	<0.05	13.7	0.301	17.85	
.999915		660	39.4	79.9	<0.002	0.03	1.26	11.7	1	1.8	76.3	0.71	<0.05	13.8	0.297	13.90	
.999916		470	27.7	118.5	<0.002	0.01	1.25	12.5	2	2.4	83.6	0.97	<0.05	18.4	0.326	4.07	
.999917		400	31.6	144.0	<0.002	0.01	1.15	14.6	2	3.1	87.5	1.16	<0.05	20.1	0.388	2.17	
.999918		390	40.9	143.5	<0.002	0.14	0.72	14.6	2	3.5	89.7	1.33	<0.05	21.4	0.422	1.71	
.999919		400	28.1	151.5	<0.002	0.29	0.50	16.7	2	4.0	111.0	1.51	<0.05	22.1	0.478	1.25	
.999920		360	27.3	161.0	<0.002	0.40	0.44	15.4	2	3.5	149.0	1.31	<0.05	22.5	0.435	1.17	
.999921		380	24.5	156.0	0.002	0.30	0.44	14.4	2	3.4	149.0	1.24	<0.05	22.3	0.412	1.29	
.999922		370	31.2	159.0	<0.002	0.24	0.33	14.5	2	3.5	143.0	1.33	<0.05	22.4	0.427	1.08	
.999923		380	43.1	150.5	<0.002	0.25	0.35	14.2	2	3.3	178.0	1.22	<0.05	21.5	0.406	1.03	
.999924		370	27.3	126.5	<0.002	0.18	0.56	12.9	2	2.9	112.5	1.12	<0.05	20.6	0.364	2.26	
.999925		370	28.4	137.5	<0.002	0.14	0.49	13.7	2	3.1	119.0	1.17	<0.05	22.0	0.386	2.16	
.999926		830	80.5	142.0	0.002	0.03	2.43	17.1	3	2.6	98.9	0.93	0.06	12.4	0.433	20.4	
.999927		820	39.4	130.0	<0.002	0.04	1.97	16.7	2	2.4	94.8	0.88	0.06	12.1	0.423	27.2	
.999928		820	41.3	130.0	0.003	0.03	2.06	16.1	2	2.3	93.0	0.84	0.06	12.5	0.397	37.9	
.999929		450	41.3	151.5	0.002	0.01	1.27	16.0	2	3.4	114.0	1.24	<0.05	21.3	0.408	8.90	
.999930		390	39.7	146.5	<0.002	0.01	1.14	16.9	2	3.9	107.5	1.48	<0.05	16.3	0.455	6.35	
.999931		440	78.5	138.0	0.002	0.02	1.07	15.2	2	3.4	104.0	1.31	<0.05	20.3	0.403	7.12	
.999932		420	38.7	136.5	0.002	0.01	0.90	15.9	2	3.8	108.5	1.43	<0.05	20.5	0.439	2.16	
.999933		420	81.3	134.5	<0.002	0.87	1.36	15.9	2	3.2	99.6	1.17	0.05	20.0	0.389	2.05	
.999934		380	139.0	139.0	<0.002	1.37	2.08	16.7	2	3.1	97.6	1.10	0.05	18.1	0.392	2.71	
.999935		370	147.5	145.5	<0.002	1.66	2.61	16.8	2	3.1	98.7	1.13	0.05	17.7	0.389	2.04	
.999936		330	104.5	148.5	<0.002	1.54	2.38	17.9	2	3.3	97.0	1.23	<0.05	19.1	0.421	1.77	
.999937		470	57.4	118.5	<0.002	0.29	0.98	14.3	2	2.8	99.2	1.09	0.06	19.9	0.355	0.96	
.999938		840	24.6	105.5	0.004	0.04	1.02	15.2	3	2.0	89.0	0.77	0.09	10.6	0.373	2.19	
.999939		760	28.6	105.0	0.002	0.03	0.98	16.6	2	2.1	85.0	0.79	0.11	10.5	0.414	4.50	
.999940		680	24.8	96.6	0.002	0.03	0.80	14.6	2	2.0	74.7	0.75	0.08	11.9	0.364	2.56	
.999941		770	37.4	94.5	0.002	0.02	1.01	14.3	2	2.0	75.3	0.78	0.09	11.4	0.368	1.82	
.999942		310	100.5	142.5	0.002	0.02	1.84	17.8	3	3.1	88.0	1.07	0.06	15.2	0.403	1.15	
.999943		400	171.5	142.5	0.002	0.04	1.68	16.7	2	2.7	85.9	0.98	0.06	15.6	0.394	1.23	
.999944		330	112.5	150.5	0.003	0.06	2.27	17.6	2	3.1	89.6	1.08	0.06	15.8	0.392	1.32	
.999945		390	94.2	148.5	0.002	0.15	1.99	17.6	2	2.9	85.1	1.00	0.07	16.1	0.389	1.36	
.999946		330	33.6	144.5	0.004	0.03	0.74	16.6	2	2.8	84.0	0.96	0.08	15.1	0.365	0.99	
.999947		330	31.0	140.5	0.003	0.03	0.85	18.8	2	3.1	90.1	1.19	0.10	13.7	0.432	1.06	
.999948		350	25.0	142.5	<0.002	0.04	0.58	18.3	2	3.0	88.4	1.07	0.10	14.1	0.411	0.99	
K976401		780	24.1	102.5	0.003	0.03	0.83	14.7	3	2.0	84.7	0.75	0.09	10.0	0.375	1.42	
K976402		750	24.3	105.5	0.002	0.03	0.81	14.3	3	2.1	82.4	0.78	0.09	11.7	0.348	1.41	
K976403		410	26.2	147.0	<0.002	0.01	1.03	16.6	2	2.6	85.9	0.97	0.09	15.6	0.384	1.18	
K976404		360	26.7	162.5	<0.002	0.01	1.18	16.7	1	2.7	86.8	0.94	0.11	14.4	0.395	1.36	



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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
.999913		3.5	161	1.6	23.4	144	109.0
.999914		2.7	80	1.0	20.2	491	97.6
.999915		2.9	78	1.0	19.7	366	93.8
.999916		3.6	72	1.4	22.0	156	111.5
.999917		4.0	85	1.6	21.8	123	128.5
.999918		4.1	88	1.8	22.6	115	123.0
.999919		4.7	100	2.1	22.8	115	121.5
.999920		4.1	94	1.8	23.7	96	127.5
.999921		4.1	86	1.7	23.1	90	118.0
.999922		4.1	87	1.8	22.3	90	115.0
.999923		3.8	83	1.6	22.8	97	111.5
.999924		3.8	75	1.4	21.7	115	113.0
.999925		4.0	80	1.6	23.0	130	118.0
.999926		3.9	144	1.5	21.7	844	104.0
.999927		3.8	136	1.4	21.4	887	100.0
.999928		3.9	129	1.4	21.6	1200	101.0
.999929		4.3	94	1.8	24.6	237	109.0
.999930		4.3	108	2.0	18.1	174	114.5
.999931		4.2	91	1.8	24.6	264	104.5
.999932		4.3	95	1.9	24.7	168	110.5
.999933		4.1	95	1.4	23.2	362	93.2
.999934		4.1	99	1.4	23.4	375	95.8
.999935		4.0	97	1.4	23.1	222	98.2
.999936		4.2	100	1.6	22.3	201	98.8
.999937		3.4	81	1.3	24.8	97	91.0
.999938		3.4	136	1.0	19.9	233	85.3
.999939		3.3	147	1.0	20.2	249	91.0
.999940		3.4	125	1.0	20.0	162	86.4
.999941		3.3	123	1.0	21.1	139	92.2
.999942		4.4	109	1.4	18.9	238	102.5
.999943		4.0	108	1.3	21.6	210	99.5
.999944		4.9	105	1.4	22.3	266	105.5
.999945		4.5	108	1.3	23.4	226	102.5
.999946		2.6	99	1.4	19.5	97	80.9
.999947		3.1	116	1.6	18.2	93	93.2
.999948		2.9	105	1.6	19.7	87	87.3
K976401		3.2	139	1.0	19.0	160	83.3
K976402		3.2	121	1.1	19.6	141	85.9
K976403		3.2	118	1.5	21.4	115	91.6
K976404		2.4	104	1.5	21.2	116	79.2

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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K976405		0.80	<0.01	0.07	9.16	18.3	650	3.25	0.42	0.20	0.04	81.3	23.5	78	16.15	13.2
K976406		1.22	<0.01	0.07	9.08	15.6	660	3.29	0.39	0.58	0.04	96.5	24.2	73	15.65	14.2
K976407		0.87	<0.01	0.07	9.01	25.9	660	3.01	0.39	0.56	0.04	104.0	23.1	73	15.55	14.6
K976408		0.83	<0.01	0.23	7.70	474	810	2.20	0.26	0.37	0.43	84.5	21.2	86	12.45	39.8
K976409		0.92	<0.01	0.37	7.61	289	880	2.26	0.25	0.39	0.44	79.9	14.9	90	11.75	36.1
K976410		0.82	<0.01	0.09	8.56	48.4	720	2.91	0.39	0.18	0.08	96.8	19.5	72	20.9	26.1
K976411		0.72	<0.01	0.07	8.59	28.3	580	3.09	0.40	0.17	0.04	83.5	25.3	67	19.50	19.1
K976412		1.10	<0.01	0.06	8.84	9.3	600	3.15	0.42	0.14	0.02	104.0	22.3	60	21.6	17.2
K976413		0.59	<0.01	0.08	8.88	11.5	820	3.06	0.39	0.16	0.03	108.5	22.5	65	21.4	18.6
K976414		0.99	<0.01	0.07	8.90	9.3	980	3.39	0.37	0.30	0.07	99.5	24.0	65	24.2	18.2
K976415		0.89	<0.01	0.06	8.58	8.0	770	3.20	0.35	0.36	0.04	107.0	22.3	64	23.5	19.5
K976416		0.34	<0.01	0.15	7.31	14.5	750	1.95	0.22	0.31	0.25	76.0	16.9	85	6.74	32.2
K976417		0.49	<0.01	0.09	9.40	15.9	710	2.74	0.27	0.46	0.21	83.4	22.4	97	11.95	35.2
K976418		0.53	<0.01	0.09	9.50	15.8	690	2.88	0.28	0.30	0.15	84.7	31.8	97	13.80	35.8
K976419		0.54	<0.01	0.10	9.40	15.6	580	3.05	0.29	0.27	0.09	73.2	30.2	94	14.95	32.9
K976420		0.70	<0.01	0.11	9.52	15.4	600	2.98	0.30	0.26	0.09	67.9	23.3	97	16.10	33.8
K976421		0.62	<0.01	0.04	8.65	15.3	530	2.13	0.30	0.24	0.08	72.3	17.0	90	14.10	31.7
K976422		0.69	<0.01	0.03	9.23	15.5	550	2.48	0.32	0.30	0.07	77.1	18.8	95	15.05	30.0
K976423		0.75	<0.01	0.05	9.66	15.1	560	2.30	0.32	0.25	0.07	79.4	17.2	98	16.35	31.4
K976424		0.71	<0.01	0.05	9.15	15.1	530	2.35	0.30	0.25	0.07	79.3	18.8	93	15.95	32.4
K976425		0.83	<0.01	0.16	9.49	15.4	560	2.34	0.30	0.27	0.08	80.5	19.2	97	16.85	34.1
K976426		0.65	<0.01	0.08	9.60	15.6	600	2.49	0.34	0.25	0.11	77.4	18.9	96	17.75	33.3
K976427		0.81	<0.01	0.07	9.40	14.7	550	2.68	0.32	0.26	0.12	82.1	20.3	96	17.10	35.8
K976428		0.67	<0.01	0.06	9.62	13.9	580	2.47	0.31	0.28	0.10	82.1	19.9	99	16.45	34.4
K976429		0.63	<0.01	0.10	6.04	24.0	760	1.27	0.21	2.54	0.38	57.3	17.5	76	4.26	55.4
K976430		0.57	<0.01	0.11	7.84	19.1	680	1.71	0.27	1.75	0.28	69.7	19.4	85	6.94	52.3
K976431		0.53	<0.01	0.10	7.88	22.5	630	1.76	0.29	3.24	0.25	72.7	17.8	80	8.66	47.6
K976432		0.78	<0.01	0.10	7.77	30.1	670	1.82	0.26	2.06	0.23	72.5	18.2	82	11.10	48.7
K976433		0.62	<0.01	0.13	7.33	12.1	950	1.51	0.21	0.37	0.22	64.4	15.1	105	6.74	34.7
K976434		0.70	<0.01	0.11	7.77	17.0	750	1.71	0.26	0.99	0.29	69.4	16.9	84	7.02	41.7
K976435		0.61	<0.01	0.14	7.07	27.8	750	1.60	0.24	1.85	0.36	65.5	19.7	76	6.05	50.1
K976436		0.62	<0.01	0.09	8.53	19.9	680	1.87	0.29	1.47	0.21	79.2	19.3	88	8.03	46.2
K976437		0.59	<0.01	0.08	7.80	23.6	640	1.60	0.26	2.83	0.22	66.4	16.8	80	9.12	43.5
K976438		0.65	<0.01	0.12	7.37	27.6	660	1.60	0.25	2.84	0.27	67.5	16.8	81	11.65	46.0
K976439		0.58	<0.01	0.05	7.95	14.3	2490	1.56	0.26	0.65	0.20	66.2	16.1	86	6.66	38.7
K976440		0.60	<0.01	0.09	7.40	14.7	3070	1.65	0.24	0.70	0.28	88.0	16.7	82	6.80	39.6
K976441		0.85	<0.01	0.08	8.49	11.4	760	1.95	0.31	0.51	0.13	80.0	21.0	92	7.34	33.1
K976442		0.55	<0.01	0.07	8.57	11.3	600	1.97	0.31	0.47	0.10	79.1	19.8	90	7.35	29.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K976405		5.18	25.1	0.27	2.8	<0.01	0.074	4.00	35.5	40.0	0.99	1620	0.67	0.26	14.7	48.6
K976406		5.16	24.4	0.30	2.8	0.03	0.077	3.75	44.0	39.9	1.03	1910	0.82	0.27	14.8	46.8
K976407		5.23	23.2	0.29	2.9	0.03	0.074	3.68	49.5	39.8	1.02	1790	0.84	0.27	14.3	44.9
K976408		5.17	19.65	0.26	2.8	0.49	0.068	2.10	40.4	69.1	0.79	945	1.51	0.42	14.6	48.4
K976409		3.88	18.70	0.24	2.8	1.08	0.067	1.92	38.5	71.2	0.76	318	1.37	0.39	13.5	46.1
K976410		5.74	23.4	0.28	2.5	0.07	0.077	3.43	42.8	61.6	0.73	1020	0.84	0.14	15.6	47.4
K976411		5.84	23.4	0.27	2.5	0.07	0.073	3.52	35.6	64.5	0.68	1390	0.86	0.08	15.3	56.5
K976412		6.02	23.8	0.30	2.3	0.02	0.072	3.68	46.1	61.9	0.71	733	0.72	0.06	15.6	52.0
K976413		6.08	23.0	0.31	2.6	0.03	0.072	3.75	49.6	67.2	0.84	644	0.70	0.08	15.0	53.7
K976414		5.18	24.1	0.27	2.5	0.03	0.076	3.79	43.6	57.7	0.79	3190	0.65	0.06	15.9	53.5
K976415		4.55	23.3	0.28	2.7	0.04	0.071	3.66	49.3	56.5	0.78	2520	0.55	0.06	15.3	50.7
K976416		4.36	17.95	0.25	2.6	0.09	0.065	1.74	35.9	59.3	0.88	618	1.28	0.47	12.1	40.3
K976417		5.31	23.1	0.26	2.8	0.02	0.080	2.42	38.9	86.6	1.07	424	0.78	0.43	13.5	56.0
K976418		5.15	23.4	0.26	2.8	0.02	0.082	2.48	38.6	98.3	0.99	367	0.79	0.41	13.4	64.7
K976419		5.03	23.5	0.26	2.7	0.03	0.083	2.46	32.2	89.2	1.01	855	0.91	0.38	12.8	65.6
K976420		5.04	24.8	0.25	2.7	0.03	0.086	2.57	28.7	91.4	1.03	1100	0.82	0.39	13.1	66.5
K976421		5.17	22.1	0.14	2.9	0.03	0.080	2.28	39.5	82.9	0.95	335	0.91	0.37	11.5	54.6
K976422		5.26	23.7	0.18	2.9	0.03	0.082	2.45	41.4	85.1	1.00	464	0.92	0.40	11.9	59.5
K976423		5.13	23.8	0.17	2.9	0.02	0.094	2.60	40.4	82.5	1.09	239	0.66	0.42	12.0	61.4
K976424		4.99	23.6	0.16	2.8	0.02	0.086	2.43	40.8	88.5	1.06	273	0.70	0.40	12.3	61.8
K976425		5.01	25.1	0.16	2.9	0.03	0.093	2.61	40.3	90.9	1.11	299	0.94	0.41	12.6	62.0
K976426		5.01	25.8	0.16	3.0	0.03	0.085	2.66	38.9	88.7	1.12	241	0.84	0.41	13.5	61.6
K976427		4.79	25.9	0.19	2.9	0.02	0.100	2.58	40.0	87.2	1.12	289	0.77	0.42	14.0	65.1
K976428		5.01	25.5	0.16	3.0	0.02	0.095	2.59	41.5	91.3	1.18	396	0.73	0.43	13.6	63.7
K976429		4.56	16.00	0.13	2.3	0.09	0.063	1.46	29.8	48.5	1.24	890	1.66	0.64	9.8	49.5
K976430		4.95	20.8	0.16	3.0	0.06	0.077	1.99	36.9	59.1	1.18	652	1.21	0.56	11.7	56.5
K976431		4.60	19.90	0.15	2.9	0.18	0.073	2.12	39.5	59.9	1.32	558	1.10	0.45	11.7	53.2
K976432		4.64	20.9	0.17	3.0	0.18	0.084	2.11	39.2	63.8	1.32	585	1.31	0.45	12.4	55.4
K976433		4.46	19.05	0.13	2.6	0.04	0.071	1.92	35.1	56.4	0.92	490	4.31	0.37	10.3	55.7
K976434		4.72	20.0	0.14	3.1	0.07	0.080	1.99	36.1	62.3	1.11	429	1.38	0.42	12.3	52.0
K976435		5.01	19.10	0.15	2.7	0.15	0.070	1.85	36.2	56.5	1.07	879	1.54	0.46	11.4	61.0
K976436		5.03	22.0	0.15	3.2	0.06	0.075	2.28	41.7	61.7	1.10	525	1.18	0.46	12.6	59.4
K976437		4.53	19.00	0.14	2.8	1.45	0.068	2.11	36.7	54.3	1.32	504	1.13	0.44	11.4	50.6
K976438		4.38	19.05	0.15	2.8	0.18	0.075	2.02	36.0	60.0	1.27	534	1.64	0.41	11.3	49.7
K976439		4.79	19.50	0.13	2.6	0.05	0.070	2.05	34.5	56.5	1.09	593	1.30	0.54	10.4	54.6
K976440		4.36	20.4	0.15	2.8	0.04	0.077	1.96	39.7	58.0	1.00	603	1.40	0.47	11.6	56.0
K976441		4.91	22.1	0.18	2.8	0.02	0.093	2.18	41.3	67.0	1.09	631	1.14	0.45	12.7	62.8
K976442		4.65	21.6	0.16	2.9	0.02	0.087	2.21	41.4	66.0	1.06	584	0.98	0.43	12.3	58.0

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	P	Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K976405	320	24.8	164.5	<0.002	<0.01	1.15	17.4	1	2.8	82.1	0.99	0.10	13.6	0.428	0.98
K976406	320	26.0	164.0	<0.002	<0.01	0.99	17.6	1	2.8	85.9	0.98	0.10	15.0	0.417	0.95
K976407	330	26.0	169.0	<0.002	0.01	1.01	17.1	2	2.7	83.4	0.98	0.10	15.9	0.421	0.92
K976408	800	26.5	116.5	0.002	0.04	1.01	16.1	3	2.3	107.0	0.92	0.09	12.2	0.440	2.05
K976409	910	25.8	118.5	0.004	0.07	0.98	16.2	4	2.3	98.5	0.84	0.08	11.6	0.398	2.28
K976410	390	29.2	142.5	<0.002	0.01	1.28	17.0	2	2.8	212	1.04	0.10	14.6	0.428	0.95
K976411	360	29.2	138.0	<0.002	0.01	1.29	16.2	2	2.8	252	1.03	0.09	13.5	0.434	0.92
K976412	320	30.3	146.0	<0.002	<0.01	1.31	17.0	1	2.8	250	1.02	0.10	15.3	0.428	0.86
K976413	360	28.8	147.0	<0.002	0.01	1.26	16.4	1	2.7	240	1.01	0.10	15.4	0.436	0.86
K976414	330	27.0	143.5	<0.002	0.01	1.09	16.9	1	2.8	187.0	1.07	0.09	14.9	0.447	0.85
K976415	330	24.9	146.5	<0.002	0.01	1.00	16.3	2	2.8	179.0	1.05	0.09	15.9	0.444	0.78
K976416	870	20.8	104.5	<0.002	0.04	0.89	15.3	2	2.2	82.0	0.78	0.10	10.1	0.421	0.73
K976417	730	23.1	141.5	<0.002	0.11	0.75	19.0	2	2.8	135.5	0.85	0.11	12.0	0.452	0.93
K976418	720	22.8	147.5	<0.002	0.15	0.72	19.3	1	3.0	144.0	0.87	0.10	12.6	0.442	1.04
K976419	860	22.4	140.5	0.002	0.05	0.65	18.5	2	2.9	102.5	0.81	0.09	11.3	0.406	1.06
K976420	850	22.3	138.0	<0.002	0.08	0.64	19.5	2	3.1	111.0	0.85	0.10	11.0	0.418	1.09
K976421	880	22.0	145.5	0.002	0.40	0.61	17.6	2	2.6	110.5	0.85	<0.05	12.0	0.412	0.81
K976422	930	22.1	151.0	<0.002	0.42	0.61	18.5	1	2.9	120.5	0.84	0.05	13.2	0.428	0.90
K976423	830	22.8	150.5	<0.002	0.72	0.67	18.5	1	3.1	135.5	0.89	<0.05	12.8	0.437	1.01
K976424	810	21.2	153.5	0.002	0.74	0.67	18.8	1	2.9	124.0	0.85	0.06	12.6	0.430	0.91
K976425	860	24.8	165.0	0.002	0.98	0.71	20.2	2	3.0	137.5	0.90	0.06	13.2	0.431	0.95
K976426	830	23.1	164.0	0.003	0.90	0.68	21.3	1	3.3	143.0	0.97	<0.05	12.8	0.445	1.11
K976427	830	22.5	156.5	0.002	0.94	0.74	20.6	2	3.2	127.0	0.95	<0.05	12.2	0.444	0.96
K976428	860	22.4	156.5	0.003	0.99	0.68	20.0	1	3.3	113.0	1.01	0.06	12.4	0.454	0.96
K976429	680	16.3	79.7	0.003	0.07	0.76	15.9	1	1.8	110.0	0.62	<0.05	8.3	0.426	0.49
K976430	810	18.7	115.0	<0.002	0.10	0.79	17.9	2	2.3	112.0	0.82	0.09	10.4	0.456	0.63
K976431	780	19.3	115.5	0.002	0.80	0.84	17.1	2	2.3	143.0	0.80	0.10	11.1	0.441	0.72
K976432	790	18.5	123.5	0.003	0.84	0.83	18.7	2	2.4	130.0	0.85	0.07	11.6	0.438	0.79
K976433	740	14.7	110.5	0.002	0.20	0.75	15.5	2	2.3	87.1	0.76	0.07	9.5	0.376	0.63
K976434	900	18.7	122.0	0.003	0.05	0.81	17.0	2	2.4	97.5	0.90	0.07	11.1	0.423	0.74
K976435	820	18.5	101.0	0.004	0.05	0.95	17.0	1	2.2	114.5	0.78	0.07	9.9	0.408	0.65
K976436	850	20.1	128.0	0.004	0.12	0.84	18.8	1	2.6	114.0	0.88	0.06	11.9	0.448	0.74
K976437	780	18.2	113.5	0.003	0.84	0.79	16.5	2	2.4	130.5	0.83	0.06	10.9	0.435	0.74
K976438	770	18.0	110.5	0.004	0.84	0.85	16.6	1	2.2	151.5	0.83	0.07	10.4	0.419	0.71
K976439	810	17.9	111.5	0.002	0.43	0.68	16.2	2	2.3	92.3	0.76	0.05	11.2	0.418	0.72
K976440	740	17.2	118.0	0.003	0.34	0.87	16.5	2	2.3	112.5	0.78	0.06	10.8	0.392	0.70
K976441	1080	20.9	129.0	<0.002	0.08	0.74	17.8	2	2.8	98.5	0.85	0.06	12.0	0.434	0.75
K976442	1090	18.2	133.0	0.002	0.08	0.76	17.3	1	2.7	95.5	0.87	0.05	12.5	0.427	0.72

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**CERTIFICATE OF ANALYSIS WH12107684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K976405		2.4	102	1.5	17.9	114	84.7
K976406		2.1	110	1.5	20.2	111	87.2
K976407		2.1	111	1.5	20.8	111	88.1
K976408		3.4	147	1.2	21.7	161	93.0
K976409		3.9	151	1.2	21.8	160	89.8
K976410		2.0	85	1.7	19.5	106	79.3
K976411		1.9	89	1.7	17.7	125	77.6
K976412		1.6	72	1.7	18.7	108	76.2
K976413		1.8	75	1.7	19.3	116	81.3
K976414		2.0	108	1.7	20.3	113	80.9
K976415		2.3	122	1.6	21.6	105	86.2
K976416		2.7	152	1.1	18.2	127	81.4
K976417		2.7	162	1.2	16.2	136	88.1
K976418		3.0	162	1.2	15.9	142	89.0
K976419		2.9	156	1.2	17.2	141	84.1
K976420		2.9	164	1.2	16.4	142	86.6
K976421		2.6	139	1.2	21.5	127	119.0
K976422		2.7	147	1.3	20.1	129	96.4
K976423		2.7	155	1.4	17.2	127	94.8
K976424		2.6	146	1.3	20.2	130	103.5
K976425		2.7	153	1.3	20.2	127	100.5
K976426		2.9	156	1.4	17.8	128	104.5
K976427		2.7	155	1.3	19.1	131	108.5
K976428		2.7	157	1.4	19.0	140	105.5
K976429		2.1	135	0.9	17.3	121	78.8
K976430		2.7	153	1.2	20.3	135	105.5
K976431		2.7	147	1.2	19.8	129	97.5
K976432		2.7	149	1.3	19.8	124	104.0
K976433		2.3	141	1.0	17.2	120	84.2
K976434		2.8	149	1.2	20.5	137	101.5
K976435		2.6	144	1.1	20.6	163	92.4
K976436		2.8	154	1.2	21.2	140	109.0
K976437		2.7	143	1.2	18.4	119	101.5
K976438		2.6	142	1.2	19.7	122	132.0
K976439		2.7	147	1.1	17.0	141	91.3
K976440		2.7	142	1.1	18.2	131	98.1
K976441		2.6	141	1.3	22.3	143	98.9
K976442		2.5	137	1.3	22.5	136	101.0



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**CERTIFICATE OF ANALYSIS WH12107684**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.

**APPENDIX VIII**  
**DIAMOND DRILL GEOLOGICAL AND SAMPLE LOGS**



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		619035	7112967	1492.17	218.54

**ZONE:** Anubis

**SECTION:** SIE

**HOLE:** AN -12-001

**CLAIM:** Dale 12

**Contractor:** Superior

**Drill:** 2

**Core Size:** HQ

**Casing Depth:** 6.1m, Out

**Drilling Dates:** Aug 30 - Sep 03, 2012

**Geology Logged By:** J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method
20.42	202.6	-51.5	Reflex
218.54	205.5	-47.6	Reflex

**TARGET:** \_\_\_\_\_

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.51	3.51	OVB
3.51	11.28	7.77	ARG
11.28	12.8	1.52	LST
12.8	18.25	5.45	ARG
18.25	20.42	2.17	LST
20.42	67.77	47.35	ARG
67.77	71.6	3.83	LST
71.6	127.35	55.75	ARG
127.35	137.89	10.54	LST
137.89	218.54	80.65	ARG

SAMPLES	
Numbers:	K309641 to K309650, K311501 to K311600, M398615 to M398619
Total:	115
Batch:	337, 346, 347, 349
Certificates:	VA12207634, VA12207635, VA12210454, WH12210696, WH12221693

COMMENTS
Hole targets surface showing containing high grade gold mineralization.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.51	3.51	OVB	--	No Recovery.	--	--	--	--	--	--	0
3.51	11.28	7.77	ARG	VF	Highly fractured rusty weathering shales. Moderate calcite veining.	MD	BN					
						DK	BK	FR	---	--	--	0
11.28	12.80	1.52	LST	MG	Packstone interbed. Abundant calcite veining. 50 % of the interval is competent while the remaining 50 % is dark, clayey rubble.	MD	GY	PK	---	--	--	0
12.80	18.25	5.45	ARG	FG	Competent to highly fractured and clayey shales. Brown-orange rust staining occurs sometimes in association with barite on fracture faces. Minor calcite veining.			RB				
						DK	BK	MA	---	--	Ba	0.05
18.25	20.42	2.17	LST	MG	Limestone interlayer.							
						MD	BN	RB	---	--	--	0
20.42	67.77	47.35	ARG	VF	Highly carbonaceous graphitic black shales. Material competency ranges from high to low with ~30 % of the interval being highly fractured and variably clayey. Silicification occurs within the lower portion of the interval associated with minor realgar mineralization. Shales are typically weakly calcareous. The lower portion of the interval is non calcareous and highly porous indicating some degree of decarbonization has taken place. Minor euhedral barite crystals are noted in the upper portion of the interval. Calcite veins and veinlets (~5-10 /m) are consistently present. No sedimentary foliations are observed.							
								MA	DCA	2I	Gr	5
						DK	BK	RB	SIL	2I	Ba	0.01
								FR			Re	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
67.77	71.60	3.83	LST	FG	Completely silicified limestone with minor amounts of silicified shale. Shale within the interval appears decarbonized. Silicified material appears to be brecciated in a brittle fashion. Breccias are clast dominant with a very thin matrix of hydrothermal silica. Silicification occurs as replacement as well as open space filling. Realgar is moderately abundant throughout the interval occurring within open spaces and on fracture planes. Early phase calcite veins appears to be completely replaced by silica. No calcareous material occurs within the interval. A silica sinter is common on fracture faces and euhedral quartz veins are noted in vugs.							
						MD	GY	BX MA	DCA SIL	5I 5I	Re	0.1
71.60	127.35	55.75	ARG	VF	Generally competent dark shale. Sporadic calcite veinlets are present throughout. The upper 5 m of the interval appears variable decarbed.							
						DK	BK	MA	DCA	1I	--	0
127.35	137.89	10.54	LST	VF	Medium grey, typically fossiliferous (faint fragments and crinoids) packstone and wackestone (minority component). The upper contact with the shale unit appears to be stratigraphic (sharp). Material is generally competent with rubbly sections occurring throughout. Calcite veinlets are noted to crosscut faint stylolites. Stylolites occur sub parallel TCA while calcite veinlets occur between 50 and 70 degrees TCA. Minor strain expressions including a fault surface with slickenlines are present.							
								WK				
						MD	GY	PK	---	--	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
137.89	218.54	80.65	ARG	VF	Highly carbonaceous, variably calcareous black shales. Bedding definition increases with depth. Bedding is defined by lighter colored milimetric scale interbeds as well as pyritic banding. Bedding angles occur on average at 45 degrees TCA. The upper portion of the interval is rubbly and highly fractured. The remainder of the interval is competent with localized pockets of clayey gouge. Highly pyritic grey clayey material is also noted at a few location throughout the interval in association with shales. Very fine grained pyrite occurs disseminated throughout. Euhedral quartz crystals are noted on a fracture face at 148.44 m.							
								BD				
								SN				
						DK	BK	MA	---	--	Py	0.1

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.51	3.51	0	0	0.00	0	OR	--	--	
3.51	3.66	0.15	0.15	100	0.00	0	OR	1H	1W	
3.66	5.18	1.52	0.38	25	0.00	0	OR	1H	1W	
5.18	6.71	1.53	1.13	74	0.00	0	OR	2H	2W	
6.71	8.23	1.52	0.84	55	0.00	0	OR	2H	2W	
8.23	9.75	1.52	0.89	59	0.00	0	OR	2H	3W	
9.75	11.28	1.53	1.02	67	0.00	0	OR	2H	2W	
11.28	12.80	1.52	0.84	55	0.29	19	4R	3H	3W	
12.80	14.33	1.53	1.27	83	0.23	15	OR	2H	3W	
14.33	15.85	1.52	1.01	66	0.12	8	1R	2H	3W	
15.85	17.37	1.52	1.45	95	0.00	0	1R	2H	2W	
17.37	18.90	1.53	0.99	65	0.10	7	2R	2H	2W	
18.90	20.42	1.52	0.48	32	0.12	8	4R	3H	3W	
20.42	21.95	1.53	1.41	92	0.72	47	2R	2H	2W	
21.95	23.47	1.52	1.31	86	0.22	14	2R	2H	2W	
23.47	24.99	1.52	1.09	72	0.11	7	3R	2H	3W	
24.99	26.52	1.53	1.35	88	0.32	21	4R	2H	2W	
26.52	28.04	1.52	1.27	84	0.29	19	4R	2H	2W	
28.04	29.57	1.53	1.39	91	0.55	36	2R	2H	1W	
29.57	31.09	1.52	1.35	89	0.59	39	2R	2H	1W	
31.09	32.61	1.52	1.29	85	0.22	14	3R	3H	1W	
32.61	34.13	1.52	1.33	88	0.77	51	3R	2H	1W	
34.13	35.66	1.53	1.28	84	0.45	29	3R	2H	1W	
35.66	37.19	1.53	1.27	83	0.13	8	3R	2H	1W	
37.19	38.71	1.52	1.41	93	0.36	24	3R	2H	1W	
38.71	40.23	1.52	1.2	79	0.60	39	OR	2H	1W	
40.23	41.76	1.53	1.46	95	1.18	77	OR	2H	1W	
41.76	43.28	1.52	1.5	99	1.04	68	OR	2H	1W	
43.28	44.81	1.53	1.53	100	0.88	58	OR	2H	1W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.46	96	1.32	87	OR	2H	1W	
46.33	47.85	1.52	1.52	100	1.50	99	OR	2H	1W	
47.85	49.38	1.53	1.53	100	0.80	52	OR	2H	1W	
49.38	50.90	1.52	1.49	98	0.80	53	OR	2H	1W	
50.90	52.43	1.53	1.27	83	0.12	8	OR	2H	1W	
52.43	53.95	1.52	1.35	89	0.32	21	OR	2H	1W	
53.95	55.47	1.52	1.52	100	0.67	44	OR	2H	1W	
55.47	57.00	1.53	1.37	90	0.66	43	OR	2H	1W	
57.00	58.52	1.52	1.52	100	0.39	26	OR	2H	1W	
58.52	60.05	1.53	1.48	97	0.25	16	OR	2H	1W	
60.05	61.57	1.52	1.46	96	0.46	30	OR	2H	1W	
61.57	63.09	1.52	1.34	88	0.49	32	OR	2H	1W	
63.09	64.62	1.53	1.53	100	0.48	31	OR	2H	1W	
64.62	66.14	1.52	1.52	100	0.24	16	OR	2H	1W	
66.14	67.67	1.53	1.52	99	0.41	27	OR	2H	1W	
67.67	69.19	1.52	1.39	91	0.80	53	OR	3H	1W	
69.19	70.71	1.52	1.33	88	0.59	39	OR	3H	1W	
70.71	72.24	1.53	1.48	97	0.15	10	OR	2H	1W	
72.24	73.76	1.52	1.39	91	0.53	35	OR	2H	1W	
73.76	75.28	1.52	1.52	100	0.25	16	OR	2H	1W	
75.28	76.81	1.53	1.48	97	0.20	13	1R	2H	1W	
76.81	78.33	1.52	1.48	97	1.03	68	OR	2H	1W	
78.33	79.86	1.53	1.43	93	0.74	48	OR	2H	1W	
79.86	81.38	1.52	1.48	97	0.79	52	OR	2H	1W	
81.38	82.91	1.53	1.35	88	0.51	33	OR	2H	1W	
82.91	84.43	1.52	1.27	84	0.25	16	OR	2H	1W	
84.43	85.95	1.52	1.16	76	0.40	26	OR	2H	1W	
85.95	87.48	1.53	1.46	95	0.38	25	OR	2H	1W	
87.48	89.00	1.52	1.36	89	0.37	24	OR	2H	1W	
89.00	90.53	1.53	1.53	100	0.21	14	OR	1H	1W	
90.53	92.05	1.52	1.05	69	0.11	7	OR	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
92.05	93.57	1.52	1.45	95	0.00	0	OR	2H	1W	
93.57	95.10	1.53	1.35	88	0.00	0	OR	2H	1W	
95.10	96.62	1.52	1.47	97	1.02	67	OR	2H	1W	
96.62	98.15	1.53	1.43	93	0.90	59	OR	3H	1W	
98.15	99.67	1.52	1.52	100	1.28	84	OR	2H	1W	
99.67	101.19	1.52	1.3	86	0.62	41	OR	3H	1W	
101.19	102.72	1.53	1.51	99	0.14	9	OR	3H	1W	
102.72	104.24	1.52	1.38	91	0.58	38	OR	2H	1W	
104.24	105.77	1.53	1.41	92	0.30	20	OR	2H	1W	
105.77	107.29	1.52	1.52	100	0.18	12	OR	2H	1W	
107.29	108.81	1.52	1.37	90	0.43	28	OR	2H	1W	
108.81	110.34	1.53	1.41	92	0.76	50	OR	2H	1W	
110.34	111.86	1.52	1.2	79	0.28	18	OR	2H	1W	
111.86	113.39	1.53	1.42	93	0.21	14	OR	2H	1W	
113.39	114.91	1.52	1.1	72	0.00	0	OR	2H	1W	
114.91	116.43	1.52	1.25	82	0.00	0	OR	2H	1W	
116.43	117.96	1.53	1.51	99	0.13	8	OR	2H	1W	
117.96	119.48	1.52	1.38	91	0.39	26	OR	2H	1W	
119.48	121.01	1.53	1.44	94	0.28	18	OR	2H	1W	
121.01	122.53	1.52	1.37	90	0.48	32	OR	3H	1W	
122.53	124.05	1.52	1.52	100	0.40	26	OR	2H	1W	
124.05	125.58	1.53	1.38	90	0.00	0	OR	2H	1W	
125.58	127.10	1.52	1.52	100	0.10	7	OR	3H	1W	
127.10	128.63	1.53	1.51	99	0.44	29	3R	4H	1W	
128.63	130.15	1.52	1.52	100	1.04	68	3R	4H	1W	
130.15	131.67	1.52	1.52	100	0.40	26	OR	3H	1W	
131.67	133.20	1.53	1.5	98	0.13	8	OR	3H	1W	
133.20	134.72	1.52	1.52	100	0.84	55	OR	3H	1W	
134.72	136.25	1.53	1.35	88	0.60	39	4R	4H	1W	
136.25	137.77	1.52	1.1	72	0.18	12	4R	3H	1W	
137.77	139.29	1.52	0.99	65	0.00	0	OR	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
139.29	140.82	1.53	1.19	78	0.00	0	OR	3H	1W	
140.82	142.34	1.52	1.18	78	0.10	7	OR	3H	1W	
142.34	143.87	1.53	1.39	91	0.39	25	OR	2H	1W	
143.87	145.39	1.52	1.24	82	0.28	18	OR	2H	1W	
145.39	146.91	1.52	1.33	88	0.59	39	OR	3H	1W	
146.91	148.44	1.53	1.53	100	0.35	23	OR	2H	1W	
148.44	149.96	1.52	1.51	99	0.56	37	OR	3H	1W	
149.96	151.49	1.53	1.38	90	0.77	50	OR	2H	1W	
151.49	153.01	1.52	1.31	86	0.64	42	OR	4H	1W	
153.01	154.53	1.52	1.42	93	0.51	34	OR	3H	1W	
154.53	156.06	1.53	1.39	91	0.42	27	OR	3H	1W	
156.06	157.58	1.52	1.29	85	0.13	9	OR	2H	1W	
157.58	159.11	1.53	1.1	72	0.11	7	OR	3H	1W	
159.11	160.63	1.52	1.36	89	1.03	68	OR	3H	1W	
160.63	162.15	1.52	1.49	98	0.83	55	OR	3H	1W	
162.15	163.68	1.53	1.52	99	0.82	54	OR	4H	1W	
163.68	165.20	1.52	1.34	88	0.49	32	OR	4H	1W	
165.20	166.73	1.53	1.09	71	0.00	0	OR	3H	1W	
166.73	168.25	1.52	0.96	63	0.00	0	OR	4H	1W	
168.25	169.77	1.52	1.07	70	0.10	7	OR	4H	1W	
169.77	171.30	1.53	1.03	67	0.12	8	OR	4H	1W	
171.30	172.82	1.52	0.87	57	0.00	0	OR	2H	1W	
172.82	174.35	1.53	1.53	100	0.57	37	OR	3H	1W	
174.35	175.87	1.52	1.37	90	0.20	13	OR	4H	1W	
175.87	177.39	1.52	1.24	82	0.39	26	OR	4H	1W	
177.39	178.92	1.53	1	65	0.10	7	OR	4H	1W	
178.92	180.44	1.52	1.36	89	0.27	18	3R	4H	1W	
180.44	181.97	1.53	1.02	67	0.33	22	OR	4H	1W	
181.97	183.49	1.52	1.26	83	0.11	7	OR	4H	1W	
183.49	185.01	1.52	1.26	83	0.22	14	OR	4H	1W	
185.01	186.54	1.53	1.52	99	0.40	26	OR	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
186.54	188.06	1.52	1.4	92	0.87	57	OR	4H	1W	
188.06	189.59	1.53	1.47	96	1.03	67	OR	4H	1W	
189.59	191.11	1.52	1.43	94	1.27	84	OR	4H	1W	
191.11	192.63	1.52	1.47	97	1.28	84	OR	3H	1W	
192.63	194.16	1.53	1.49	97	0.87	57	OR	4H	1W	
194.16	195.68	1.52	1.29	85	0.56	37	OR	4H	1W	
195.68	197.21	1.53	1.31	86	0.15	10	OR	4H	1W	
197.21	198.73	1.52	1.52	100	0.11	7	OR	4H	1W	
198.73	200.25	1.52	1.31	86	0.64	42	OR	4H	1W	
200.25	201.78	1.53	1.18	77	0.42	27	OR	4H	1W	
201.78	203.30	1.52	1.49	98	1.02	67	OR	4H	1W	
203.30	204.83	1.53	1.47	96	0.82	54	OR	4H	1W	
204.83	206.35	1.52	1.52	100	0.86	57	OR	4H	1W	
206.35	207.87	1.52	1.23	81	0.00	0	OR	4H	1W	
207.87	209.40	1.53	1.4	92	0.13	8	OR	4H	1W	
209.40	210.92	1.52	1.27	84	0.60	39	OR	3H	1W	
210.92	212.45	1.53	1.4	92	0.80	52	OR	2H	1W	
212.45	213.97	1.52	1.23	81	0.57	38	OR	4H	1W	
213.97	215.49	1.52	1.35	89	0.79	52	OR	3H	1W	
215.49	217.02	1.53	1.5	98	1.47	96	OR	3H	1W	
217.02	218.54	1.52	1.52	100	1.00	66	OR	3H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398619	12-349	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311505	12-337	a	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311516	12-337	a		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311522	12-337	a	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311529	12-346	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311533	12-346	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311554	12-346	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311557	12-346	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311564	12-347	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311568	12-347	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311580	12-347	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311586	12-347	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311594	12-349	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K309644	12-337	a		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.51	5.18	1.67	OVB, ARG	0.45	27	K309641	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	6.71	1.53	ARG	1.20	78	K309642	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	8.23	1.52	ARG	0.88	58	K309643	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	11.28	3.05	ARG	2.17	71	K309645	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	12.80	1.52	LST, ARG	0.83	55	K309646	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.80	15.85	3.05	LST, ARG	2.52	83	K309647	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	17.37	1.52	ARG	1.52	100	K309648	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	17.37	1.52	ARG	1.52	100	K309649	12-337	a		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17.37	18.25	0.88	ARG	0.80	91	K309650	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.25	20.42	2.17	LST, ARG	0.75	35	K311501	12-337	a		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	23.47	3.05	ARG, LST	3.00	98	K311502	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23.47	26.52	3.05	ARG	2.75	90	K311503	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26.52	29.57	3.05	ARG	2.76	90	K311504	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29.57	32.61	3.04	ARG	2.79	92	K311506	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32.61	35.66	3.05	ARG	2.75	90	K311507	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35.66	38.71	3.05	ARG	2.91	95	K311508	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
38.71	41.76	3.05	ARG	2.91	95	K311509	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41.76	44.81	3.05	ARG	3.05	100	K311510	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44.81	47.85	3.04	ARG	3.00	99	K311511	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44.81	47.85	3.04	ARG	3.00	99	K311512	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
47.85	50.90	3.05	ARG	2.84	93	K311513	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50.90	53.00	2.10	ARG	1.53	73	K311514	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.00	53.95	0.95	ARG	0.85	89	K311515	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.95	57.00	3.05	ARG	3.00	98	K311517	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.00	58.52	1.52	ARG	1.39	91	K311518	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.52	60.05	1.53	ARG	1.43	93	K311519	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.05	61.57	1.52	ARG	1.52	100	K311520	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.57	63.09	1.52	ARG	1.52	100	K311521	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	64.62	1.53	ARG	1.53	100	K311523	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.62	66.14	1.52	ARG	1.52	100	K311524	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	67.77	1.63	ARG	1.41	87	K311525	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
67.77	68.36	0.59	ARG, LST	0.55	93	K311526	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
68.36	69.19	0.83	LST	0.83	100	K311527	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	70.71	1.52	LST	1.27	84	K311528	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
70.71	71.60	0.89	LST	0.80	90	K311530	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
71.60	72.24	0.64	LST, ARG	0.64	100	K311531	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	73.76	1.52	ARG	1.40	92	K311532	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73.76	75.28	1.52	ARG	1.47	97	K311534	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.28	76.81	1.53	ARG	1.48	97	K311535	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
76.81	78.33	1.52	ARG	1.52	100	K311536	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	81.38	3.05	ARG	2.91	95	K311537	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	84.43	3.05	ARG	2.62	86	K311538	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84.43	87.48	3.05	ARG	2.61	86	K311539	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.48	90.53	3.05	ARG	2.89	95	K311540	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	93.57	3.04	ARG	2.50	82	K311541	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	ARG	2.82	92	K311542	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	ARG	2.82	92	K311543	12-346	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
96.62	99.67	3.05	ARG	2.95	97	K311544	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	102.72	3.05	ARG	2.81	92	K311545	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.72	105.77	3.05	ARG	2.79	91	K311546	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.77	108.81	3.04	ARG	2.89	95	K311547	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.81	111.86	3.05	ARG	2.61	86	K311548	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.81	111.86	3.05	ARG	2.61	86	K311549	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
111.86	114.91	3.05	ARG	2.52	83	K311550	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.91	117.96	3.05	ARG	2.76	90	K311551	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
117.96	121.01	3.05	ARG	2.82	92	K311552	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
121.01	122.53	1.52	ARG	1.37	90	K311553	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.53	124.05	1.52	ARG	1.52	100	K311555	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
124.05	125.56	1.51	ARG	1.38	91	K311556	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
125.56	127.35	1.79	ARG	1.64	92	K311558	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
127.35	128.63	1.28	ARG, LST	1.15	90	K311559	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
128.63	130.15	1.52	LST	1.52	100	K311560	12-346	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
130.15	133.20	3.05	LST	3.02	99	K311561	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133.20	134.72	1.52	LST	1.52	100	K311562	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
134.72	136.25	1.53	LST	1.35	88	K311563	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
136.25	137.89	1.64	LST	1.03	63	K311565	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
136.25	137.89	1.64	LST	1.03	63	K311566	12-347	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
137.89	139.29	1.40	ARG, LST	1.00	71	K311567	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
139.29	142.34	3.05	ARG	2.37	78	K311569	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142.34	143.87	1.53	ARG	1.39	91	K311570	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
143.87	145.68	1.81	ARG	1.38	76	K311571	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
145.68	147.69	2.01	ARG	1.58	79	K311572	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
147.69	149.96	2.27	ARG	2.20	97	K311573	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
149.96	151.49	1.53	ARG	1.38	90	K311574	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
151.49	154.00	2.51	ARG	2.14	85	K311575	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
151.49	154.00	2.51	ARG	2.14	85	K311576	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
154.00	154.92	0.92	ARG	0.92	100	K311577	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
154.92	156.06	1.14	ARG	1.02	89	K311578	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
156.06	159.11	3.05	ARG	2.39	78	K311579	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
159.11	162.15	3.04	ARG	2.85	94	K311581	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
162.15	165.20	3.05	ARG	2.86	94	K311582	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
165.20	168.25	3.05	ARG	2.05	67	K311583	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
168.25	171.30	3.05	ARG	2.10	69	K311584	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
171.30	174.35	3.05	ARG	2.40	79	K311585	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
174.35	177.39	3.04	ARG	2.61	86	K311587	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
177.39	180.44	3.05	ARG	2.36	77	K311588	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
180.44	183.49	3.05	ARG	2.28	75	K311589	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
183.49	186.54	3.05	ARG	2.78	91	K311590	12-347	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
186.54	189.59	3.05	ARG	2.87	94	K311591	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
189.59	192.63	3.04	ARG	2.92	96	K311592	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
192.63	195.68	3.05	ARG	2.78	91	K311593	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
195.68	198.73	3.05	ARG	2.83	93	K311595	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
198.73	201.78	3.05	ARG	2.49	82	K311596	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
201.78	204.83	3.05	ARG	2.96	97	K311597	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
204.83	207.87	3.04	ARG	3.04	100	K311598	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
207.87	209.40	1.53	ARG	1.40	92	K311599	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
207.87	209.40	1.53	ARG	1.40	92	K311600	12-349	A		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
209.40	210.92	1.52	ARG	1.27	84	M398615	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
210.92	212.45	1.53	ARG	1.40	92	M398616	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
212.45	215.49	3.04	ARG	2.58	85	M398617	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
215.49	218.54	3.05	ARG	3.02	99	M398618	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		619035	7112967	1492.06	195

**ZONE:** Anubis

**SECTION:**

**HOLE: AN -12-002**

**CLAIM:** Dale 12

Contractor: Superior

Drill: 2

Core Size: HQ-NQ

Casing Depth: 7.62m, Out

Drilling Dates: Sep 04 - Sep 07, 2012

Geology Logged By: J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method
8.22	201.4	-74	Reflex
175.86	207.8	-74.7	Reflex

**TARGET:**

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.66	3.66	OVB
3.66	6	2.34	ARG
6	10	4	LST
10	132.38	122.38	ARG
132.38	152.3	19.92	FLR
152.3	195	42.7	LST

SAMPLES	
Numbers:	M398451 to M398460, M398620 to M398700
Total:	91
Batch:	349, 351, 355
Certificates:	WH12210696, WH12213630, WH12216609, WH12221693

COMMENTS
Undercut of An-12-01.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.66	3.66	OVB	--	No Recovery.	--	--	--	--	--	--	0
3.66	6.00	2.34	ARG	VF	Highly fractured, rubbly, rusty carbonaceous shale.			RB				
						DK	BK	FR	---	--	--	0
6.00	10.00	4.00	LST	MG	Fractured and heavily calcite veined packstone. The upper and lower contact to this interval are rubbly and obscured.			FR				
						MD	GY	PK	---	--	--	0
10.00	132.38	122.38	ARG	VF	Highly carbonaceous shales. Graphitic slip planes are common. Calcite veins and veinlets occur throughout. The majority of material is competent with rubbly sections occurring intermitently. The end of the interval, directly preceding a fault zone displays strain textures and limonitic banding.							
						DK	BK	MA	---	--	--	0
132.38	152.30	19.92	FLR	--	Fault zone containing medium grey to yellow-orange colored clayey fault breccias. Clayey matrix material surrounds dark colored angular clasts.							
						LT	OR					
						MD	GY	BX	---	--	--	0
152.30	195.00	42.70	LST	--	Medium grey, highly calcareous, calcite veined limestone package. Limestone consists of micrite (variably brecciated) packstones and rudstones. Minor para realgar occurs at 178.70 m			RD				
								PK				
								BD				
						MD	GY	MA	---	--	Re	0.01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.66	3.66	0	0	0.00	0	--	--	--	
3.66	6.71	3.05	1.37	45	0.00	0	OR	2H	3W	
6.71	8.23	1.52	0.83	55	0.21	14	3R	2H	3W	
8.23	9.75	1.52	1.14	75	0.00	0	3R	4H	2W	
9.75	11.28	1.53	1.05	69	0.00	0	OR	2H	2W	
11.28	12.80	1.52	0.95	63	0.16	11	OR	3H	2W	
12.80	14.33	1.53	1.37	90	0.10	7	OR	3H	2W	
14.33	15.85	1.52	1.24	82	0.54	36	OR	3H	2W	
15.85	17.37	1.52	1.5	99	0.61	40	OR	4H	2W	
17.37	18.90	1.53	1.1	72	0.12	8	OR	2H	2W	
18.90	20.42	1.52	0.65	43	0.00	0	OR	2H	2W	
20.42	21.95	1.53	1.28	84	0.00	0	OR	2H	2W	
21.95	23.47	1.52	1.28	84	0.00	0	OR	2H	2W	
23.47	24.99	1.52	1.31	86	0.18	12	OR	2H	2W	
24.99	26.52	1.53	1.5	98	0.71	46	OR	3H	1W	
26.52	28.04	1.52	1.48	97	0.23	15	OR	3H	1W	
28.04	29.57	1.53	1.3	85	0.27	18	OR	3H	1W	
29.57	31.09	1.52	1.5	99	0.74	49	OR	4H	1W	
31.09	32.61	1.52	1.29	85	0.86	57	OR	4H	1W	
32.61	34.14	1.53	1.41	92	0.94	61	OR	4H	1W	
34.14	35.66	1.52	1.21	80	0.64	42	OR	3H	1W	
35.66	37.19	1.53	1.36	89	0.19	12	OR	4H	1W	
37.19	38.71	1.52	1.24	82	0.47	31	OR	4H	1W	
38.71	40.23	1.52	1.5	99	0.99	65	OR	4H	1W	
40.23	41.76	1.53	1.4	92	0.55	36	OR	4H	1W	
41.76	43.28	1.52	1.26	83	0.40	26	OR	4H	1W	
43.28	44.81	1.53	1.4	92	0.87	57	OR	4H	1W	
44.81	46.33	1.52	1.52	100	0.44	29	OR	4H	1W	
46.33	47.85	1.52	1.48	97	0.78	51	OR	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
47.85	49.38	1.53	1.26	82	0.71	46	OR	4H	1W	
49.38	50.90	1.52	1.33	88	0.43	28	OR	3H	1W	
50.90	52.43	1.53	1.23	80	0.55	36	OR	3H	1W	
52.43	53.95	1.52	1.4	92	1.16	76	OR	4H	1W	
53.95	55.47	1.52	1.31	86	0.47	31	OR	3H	1W	
55.47	57.00	1.53	1.32	86	0.76	50	OR	4H	1W	
57.00	58.52	1.52	1.21	80	0.68	45	OR	4H	1W	
58.52	60.05	1.53	1.27	83	0.56	37	OR	4H	1W	
60.05	61.57	1.52	1.37	90	0.68	45	OR	4H	1W	
61.57	63.09	1.52	1.3	86	1.01	66	OR	3H	1W	
63.09	64.62	1.53	1.09	71	0.33	22	OR	3H	1W	
64.62	66.14	1.52	1.5	99	0.73	48	OR	3H	1W	
66.14	67.67	1.53	1.38	90	0.62	41	OR	3H	1W	
67.67	69.19	1.52	1.33	88	0.92	61	OR	4H	1W	
69.19	70.71	1.52	1.36	89	0.35	23	OR	3H	1W	
70.71	72.24	1.53	1.23	80	0.33	22	OR	3H	1W	
72.24	73.76	1.52	1.22	80	0.33	22	OR	3H	1W	
73.76	75.29	1.53	1.53	100	0.11	7	OR	3H	1W	
75.29	76.81	1.52	1.29	85	0.62	41	3R	3H	1W	
76.81	78.33	1.52	1.42	93	0.30	20	OR	3H	1W	
78.33	79.86	1.53	1.13	74	0.00	0	OR	3H	1W	
79.86	81.38	1.52	1.48	97	0.50	33	OR	3H	1W	
81.38	82.91	1.53	1.3	85	0.54	35	3R	3H	1W	
82.91	84.43	1.52	1.5	99	0.46	30	3R	4H	1W	
84.43	85.95	1.52	1.35	89	0.59	39	3R	3H	1W	
85.95	87.48	1.53	1.43	93	0.34	22	3R	4H	1W	
87.48	89.00	1.52	1.31	86	0.57	38	3R	3H	1W	
89.00	90.53	1.53	1.53	100	0.41	27	OR	3H	1W	
90.53	92.05	1.52	1.33	88	0.54	36	OR	3H	1W	
92.05	93.57	1.52	1.52	100	0.50	33	2R	3H	1W	
93.57	95.10	1.53	1.53	100	1.08	71	2R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
95.10	96.62	1.52	1.52	100	0.72	47	OR	3H	1W	
96.62	98.15	1.53	1.39	91	0.67	44	OR	3H	1W	
98.15	99.67	1.52	1.4	92	0.27	18	OR	3H	1W	
99.67	101.19	1.52	1.39	91	0.97	64	OR	3H	1W	
101.19	102.72	1.53	1.53	100	0.85	56	OR	3H	1W	
102.72	104.24	1.52	1.39	91	0.26	17	OR	3H	1W	
104.24	105.77	1.53	1.34	88	0.20	13	OR	3H	1W	
105.77	107.29	1.52	1.52	100	0.00	0	OR	2H	1W	
107.29	108.81	1.52	1.06	70	0.00	0	OR	2H	1W	
108.81	110.34	1.53	1.39	91	0.33	22	OR	3H	1W	
110.34	111.86	1.52	1.5	99	0.39	26	OR	3H	1W	
111.86	113.39	1.53	1.45	95	0.87	57	OR	3H	1W	
113.39	114.91	1.52	1.4	92	0.12	8	OR	2H	1W	
114.91	116.43	1.52	1.24	82	0.21	14	OR	2H	1W	
116.43	117.96	1.53	1.3	85	0.24	16	OR	3H	1W	
117.96	119.48	1.52	1.4	92	0.46	30	OR	3H	1W	
119.48	121.01	1.53	1.46	95	0.55	36	OR	2H	1W	
121.01	122.53	1.52	1.46	96	0.14	9	OR	2H	1W	
122.53	124.05	1.52	1.49	98	0.26	17	OR	2H	1W	
124.05	125.58	1.53	1.43	93	0.12	8	OR	2H	2W	
125.58	127.10	1.52	1.4	92	0.60	39	OR	2H	3W	
127.10	128.63	1.53	1.46	95	0.61	40	OR	2H	3W	
128.63	130.15	1.52	1.35	89	0.41	27	OR	2H	3W	
130.15	131.67	1.52	1.19	78	0.34	22	OR	2H	3W	
131.67	133.20	1.53	1.4	92	0.00	0	2R	2H	3W	
133.20	134.72	1.52	0.98	64	0.32	21	3R	3H	2W	
134.72	136.25	1.53	1.52	99	0.00	0	OR	1H	2W	
136.25	137.77	1.52	1.11	73	0.00	0	OR	1H	2W	
137.77	139.29	1.52	1.32	87	0.00	0	OR	1H	2W	
139.29	140.82	1.53	1.44	94	0.00	0	OR	1H	2W	
140.82	142.34	1.52	1.42	93	0.00	0	OR	1H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
142.34	143.87	1.53	1.33	87	0.00	0	0R	1H	2W	
143.87	145.39	1.52	0.99	65	0.00	0	0R	1H	2W	
145.39	146.91	1.52	1.2	79	0.00	0	0R	1H	2W	
146.91	148.44	1.53	1.33	87	0.00	0	0R	1H	2W	
148.44	149.97	1.53	1.42	93	0.00	0	0R	1H	2W	
149.97	151.49	1.52	1.18	78	0.00	0	0R	1H	1W	
151.49	153.01	1.52	1.38	91	0.59	39	4R	3H	1W	
153.01	154.53	1.52	1.32	87	0.91	60	4R	3H	1W	
154.53	156.06	1.53	0.92	60	0.12	8	4R	3H	1W	
156.06	157.58	1.52	0.88	58	0.00	0	4R	3H	1W	
157.58	159.11	1.53	0.79	52	0.12	8	4R	3H	1W	
159.11	160.63	1.52	1.12	74	0.62	41	4R	3H	1W	
160.63	162.15	1.52	1.17	77	0.95	63	4R	4H	1W	
162.15	163.68	1.53	1.21	79	0.94	61	4R	4H	1W	
163.68	165.20	1.52	1.25	82	0.35	23	4R	4H	1W	
165.20	166.73	1.53	1.28	84	1.18	77	4R	4H	1W	
166.73	168.25	1.52	1.44	95	1.33	88	4R	4H	1W	
168.25	169.77	1.52	1.47	97	1.21	80	4R	4H	1W	
169.77	171.30	1.53	1.52	99	1.36	89	4R	4H	1W	
171.30	172.82	1.52	1.52	100	1.52	100	4R	4H	1W	
172.82	174.35	1.53	1.53	100	1.53	100	4R	4H	1W	
174.35	175.87	1.52	1.52	100	1.42	93	4R	4H	1W	
175.87	178.92	3.05	2.32	76	2.11	69	4R	4H	1W	
178.92	181.97	3.05	2.39	78	1.76	58	4R	4H	1W	
181.97	185.01	3.04	3.04	100	2.88	95	4R	4H	1W	
185.01	188.06	3.05	3.05	100	2.86	94	4R	4H	1W	
188.06	191.11	3.05	2.99	98	2.90	95	4R	4H	1W	
191.11	194.16	3.05	2.57	84	2.17	71	4R	4H	1W	
194.16	195.00	0.84	0.84	100	0.10	12	4R	4H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398459	12-355	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398628	12-349	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398633	12-349	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398648	12-351	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398653	12-351	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398666	12-351	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398675	12-351	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398688	12-355	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398693	12-355	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398457	12-355	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	6.00	2.34	OVB, ARG	1.51	65	M398620	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.00	8.23	2.23	ARG, LST	1.29	58	M398621	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	10.00	1.77	LST	1.48	84	M398622	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.00	11.65	1.65	LST, ARG	1.22	74	M398623	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.65	14.33	2.68	ARG	2.19	82	M398624	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	ARG	2.52	83	M398625	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	20.42	3.05	ARG	1.75	57	M398626	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	23.47	3.05	ARG	2.56	84	M398627	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.47	26.52	3.05	ARG	2.81	92	M398629	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	29.57	3.05	ARG	2.78	91	M398630	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	32.61	3.04	ARG	2.79	92	M398631	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	35.66	3.05	ARG	2.62	86	M398632	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.66	38.71	3.05	ARG	2.60	85	M398634	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.71	41.76	3.05	ARG	2.90	95	M398635	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.71	41.76	3.05	ARG	2.90	95	M398636	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
41.76	44.81	3.05	ARG	2.66	87	M398637	12-349	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.81	47.85	3.04	ARG	3.00	99	M398638	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47.85	50.90	3.05	ARG	2.59	85	M398639	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50.90	53.95	3.05	ARG	2.63	86	M398640	12-349	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.95	57.00	3.05	ARG	2.63	86	M398641	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.00	60.05	3.05	ARG	2.48	81	M398642	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.05	63.09	3.04	ARG	2.67	88	M398643	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	66.14	3.05	ARG	2.59	85	M398644	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	69.19	3.05	ARG	2.72	89	M398645	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	72.24	3.05	ARG	2.59	85	M398646	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	75.29	3.05	ARG	2.75	90	M398647	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	78.33	3.04	ARG	2.71	89	M398649	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	81.38	3.05	ARG	2.61	86	M398650	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	84.43	3.05	ARG	2.80	92	M398651	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84.43	87.48	3.05	ARG	2.78	91	M398652	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.48	90.53	3.05	ARG	2.84	93	M398654	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	93.57	3.04	ARG	2.87	94	M398655	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	ARG	3.05	100	M398656	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96.62	99.67	3.05	ARG	2.79	91	M398657	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	102.72	3.05	ARG	2.92	96	M398658	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.72	105.77	3.05	ARG	2.73	90	M398659	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.72	105.77	3.05	ARG	2.73	90	M398660	12-351	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
105.77	108.81	3.04	ARG	2.58	85	M398661	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.81	111.86	3.05	ARG	2.89	95	M398662	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
111.86	114.91	3.05	ARG	2.85	93	M398663	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.91	117.96	3.05	ARG	2.54	83	M398664	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
117.96	121.01	3.05	ARG	2.86	94	M398665	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
121.01	124.05	3.04	ARG	2.95	97	M398667	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
124.05	125.65	1.60	ARG	1.60	100	M398668	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
125.65	127.10	1.45	ARG	1.39	96	M398669	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
127.10	128.63	1.53	ARG	1.46	95	M398670	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
127.10	128.63	1.53	ARG	1.46	95	M398671	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
128.63	130.15	1.52	ARG	1.35	89	M398672	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
130.15	131.67	1.52	ARG	1.40	92	M398673	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
131.67	132.29	0.62	ARG	0.62	100	M398674	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
132.29	133.20	0.91	ARG	0.69	76	M398676	12-351	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133.20	134.02	0.82	FLR	0.68	83	M398677	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
134.02	136.25	2.23	FLR	1.26	57	M398678	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
136.25	137.77	1.52	FLR	1.11	73	M398679	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
137.77	139.29	1.52	FLR	1.32	87	M398680	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
139.29	140.82	1.53	FLR	1.44	94	M398681	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
140.82	142.34	1.52	FLR	1.42	93	M398682	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
140.82	142.34	1.52	FLR	1.42	93	M398683	12-355	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
142.34	143.87	1.53	FLR	1.33	87	M398684	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
143.87	145.39	1.52	FLR	0.99	65	M398685	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
145.39	146.91	1.52	FLR	1.20	79	M398686	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
146.91	148.44	1.53	FLR	1.33	87	M398687	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
148.44	149.97	1.53	FLR	1.42	93	M398689	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
149.97	151.49	1.52	FLR	1.18	78	M398690	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
151.49	152.30	0.81	FLR	0.79	98	M398691	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
152.30	154.53	2.23	LST, FLR	2.05	92	M398692	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
154.53	157.58	3.05	LST	1.80	59	M398694	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
157.58	160.63	3.05	LST	1.91	63	M398695	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
160.63	163.68	3.05	LST	2.38	78	M398696	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
163.68	166.73	3.05	LST	2.53	83	M398697	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
166.73	169.77	3.04	LST	2.91	96	M398698	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
169.77	172.82	3.05	LST	2.88	94	M398699	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
169.77	172.82	3.05	LST	2.88	94	M398700	12-355	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
172.82	175.87	3.05	LST	2.95	97	M398451	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
175.87	178.92	3.05	LST	2.32	76	M398452	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
178.92	181.97	3.05	LST	2.39	78	M398453	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.97	185.01	3.04	LST	3.04	100	M398454	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
185.01	188.06	3.05	LST	3.05	100	M398455	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
188.06	191.11	3.05	LST	2.99	98	M398456	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.11	194.16	3.05	LST	2.57	84	M398458	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
194.16	195.00	0.84	LST	0.84	100	M398460	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		619004	7112898	1478.46	154.53

**ZONE:** Anubis

**SECTION:** SLE

**HOLE:** AN -12-003

**CLAIM:** Sten 132

Contractor: Superior

Drill: 2

Core Size: HQ

Casing Depth: 6.1m, Out

Drilling Dates: Sep 08 - Sep 11, 2012

Geology Logged By: J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method

**TARGET:** 110 m

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.1	1.1	OVb
1.1	9.39	8.29	ARG
9.39	18.9	9.51	LST
18.9	22.75	3.85	ARG
22.75	28.6	5.85	LST
28.6	153.79	125.19	ARG
153.79	154.53	0.74	LST

SAMPLES	
Numbers:	M398151 to M398157, M398251 to M398300, M398461 to M398500
Total:	97
Batch:	355, 361, 363, 365
Certificates:	WH12216609, WH12216660, WH12216661, WH12219223, WH12225534

COMMENTS
Scissor of An-12-001 and An-12-002

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.10	1.10	OVB	--	No Recovery.	--	--	--	--	--	--	0
1.10	9.39	8.29	ARG	VF	Rubby, highly fractured carbonaceous shales. Material competency increases towards the end of the interval. Competent pieces display interstitial bands of orange-brown limonitic material. Appears to be the same material running high arsenic in the shales before the fault zone in An-12-02. Material is non calcareous.							
						DK	BK	FR	---	--	--	0
9.39	18.90	9.51	LST	FG	Massive, heavily calcite veined, medium grey limestone. Veining is dominantly stockwork in fashion with larger, centimetric veins occurring at 45 degrees TCA. Material from 14.80-15.67 m is a clayey, low competency orange-brown oxide.							
						MD	BR					
						MD	GY	MA	OXI	3I	--	0
18.90	22.75	3.85	ARG	VF	Fractured, fissile, sometimes clayey, low competency carbonaceous shales. Minor calcite veining is noted. Minor orange-brown oxide occurs on fracture faces.							
						DK	BK	FR	---	--	--	0
22.75	28.60	5.85	LST	FG	Medium grey, highly calcite veined lime micrite. Medium grained carbonaceous fragments occur variably throughout supported by a micrite matrix. Calcite veining is stockwork in fashion, locally resulting in hydrostatic breccias. A localized band of cataclasite occurs within a slip plane oriented at 45 degrees TCA.							
						MD	GY	MA	---	--	--	0
28.60	153.79	125.19	ARG	VF	Variably calcareous black shales. Sections of silicified material in association with arsenic sulphides are present within the interval. Material displays an increased strain expression towards the end of the interval and coincident AsO on fractures.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	BK	MA	--	-	-	0
153.79	154.53	0.74	LST	FG	Light grey, highly fractured limestone and calcite vein fragments.							
						LT	GY	FR	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.10	1.10	0	0	0.00	0	OR	--	--	
1.10	2.13	1.03	1.03	100	0.00	0	OR	--	4W	
2.13	3.66	1.53	0.95	62	0.00	0	OR	--	4W	
3.66	5.18	1.52	0.48	32	0.00	0	OR	--	4W	
5.18	6.71	1.53	0	0	0.00	0	OR	--	4W	
6.71	8.23	1.52	1.22	80	0.56	37	OR	3H	4W	
8.23	9.75	1.52	1.4	92	0.00	0	OR	3H	4W	
9.75	11.28	1.53	0.66	43	1.22	80	4R	3H	4W	
11.28	12.80	1.52	1.47	97	0.77	51	4R	4H	2W	
12.80	14.33	1.53	1.2	78	0.80	52	4R	4H	2W	
14.33	15.85	1.52	1.35	89	0.55	36	4R	4H	4W	
15.85	17.37	1.52	1.36	89	1.10	72	4R	4H	2W	
17.37	18.90	1.53	1.22	80	0.53	35	4R	3H	3W	
18.90	20.42	1.52	0.93	61	0.00	0	OR	2H	4W	
20.42	21.95	1.53	1.28	84	0.26	17	1R	3H	4W	
21.95	23.47	1.52	1.52	100	0.79	52	3R	3H	2W	
23.47	24.99	1.52	1.52	100	1.34	88	4R	4H	2W	
24.99	26.52	1.53	1.47	96	1.12	73	4R	4H	2W	
26.52	28.04	1.52	1.49	98	1.43	94	4R	4H	2W	
28.04	29.57	1.53	1.36	89	1.00	65	2R	3H	2W	
29.57	31.09	1.52	1.5	99	0.93	61	1R	3H	1W	
31.09	32.61	1.52	1.41	93	0.88	58	1R	3H	1W	
32.61	34.14	1.53	1.53	100	0.70	46	1R	3H	1W	
34.14	35.66	1.52	1.52	100	0.66	43	1R	3H	1W	
35.66	37.19	1.53	1.5	98	0.95	62	1R	3H	1W	
37.19	38.71	1.52	1.52	100	0.79	52	1R	3H	1W	
38.71	40.23	1.52	1.1	72	0.15	10	1R	3H	2W	
40.23	41.76	1.53	1.34	88	0.45	29	1R	3H	1W	
41.76	43.28	1.52	1.49	98	0.42	28	OR	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
43.28	44.81	1.53	1.53	100	0.18	12	OR	3H	2W	
44.81	46.33	1.52	1.39	91	0.30	20	OR	3H	1W	
46.33	47.85	1.52	1.33	88	0.00	0	OR	3H	1W	
47.85	49.38	1.53	1.05	69	0.00	0	OR	3H	2W	
49.38	50.90	1.52	1.23	81	0.46	30	OR	3H	1W	
50.90	52.42	1.52	1.22	80	0.63	41	OR	3H	1W	
52.42	53.95	1.53	1.33	87	0.49	32	OR	3H	1W	
53.95	55.47	1.52	1.44	95	0.26	17	OR	3H	1W	
55.47	57.00	1.53	1.42	93	0.37	24	OR	3H	1W	
57.00	58.52	1.52	1.38	91	0.48	32	OR	3H	1W	
58.52	60.05	1.53	1.43	93	0.37	24	OR	3H	1W	
60.05	61.57	1.52	1.3	86	0.11	7	OR	3H	1W	
61.57	63.09	1.52	1.38	91	0.12	8	OR	3H	3W	
63.09	64.62	1.53	1.29	84	0.00	0	OR	3H	3W	
64.62	66.14	1.52	1.33	88	0.00	0	OR	3H	3W	
66.14	67.67	1.53	1.41	92	0.00	0	OR	3H	2W	
67.67	69.19	1.52	1.27	84	0.17	11	1R	3H	2W	
69.19	70.71	1.52	1.11	73	0.38	25	2R	3H	2W	
70.71	72.24	1.53	1.51	99	1.08	71	2R	3H	2W	
72.24	73.76	1.52	1.4	92	0.46	30	OR	3H	2W	
73.76	75.29	1.53	1.45	95	1.35	88	OR	3H	2W	
75.29	76.81	1.52	1.47	97	1.16	76	OR	3H	2W	
76.81	78.33	1.52	1.5	99	0.98	64	OR	3H	2W	
78.33	79.86	1.53	1.25	82	1.19	78	OR	3H	2W	
79.86	81.38	1.52	1.51	99	1.50	99	OR	3H	2W	
81.38	82.91	1.53	1.42	93	0.67	44	OR	3H	2W	
82.91	84.43	1.52	1.11	73	0.12	8	OR	3H	2W	
84.43	85.95	1.52	1.43	94	0.22	14	OR	3H	2W	
85.95	87.48	1.53	1.52	99	0.24	16	OR	3H	2W	
87.48	89.00	1.52	1.41	93	0.85	56	OR	3H	2W	
89.00	90.53	1.53	1.51	99	0.79	52	OR	3H	2W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
90.53	92.05	1.52	1.47	97	0.82	54	OR	3H	2W	
92.05	93.57	1.52	1.02	67	0.26	17	OR	3H	2W	
93.57	95.10	1.53	1.52	99	0.10	7	OR	3H	2W	
95.10	96.62	1.52	1.52	100	0.32	21	OR	3H	2W	
96.62	98.15	1.53	1.45	95	0.13	8	OR	3H	2W	
98.15	99.67	1.52	1.46	96	0.17	11	OR	3H	2W	
99.67	101.19	1.52	1.42	93	0.41	27	OR	3H	2W	
101.19	102.72	1.53	1.43	93	0.21	14	OR	1H	2W	
102.72	104.24	1.52	1.52	100	0.27	18	OR	2H	2W	
104.24	105.77	1.53	1.53	100	0.52	34	2R	3H	2W	
105.77	107.29	1.52	1.41	93	1.13	74	OR	2H	2W	
107.29	108.81	1.52	1.4	92	0.51	34	OR	2H	2W	
108.81	110.34	1.53	1.14	75	0.19	12	OR	1H	2W	
110.34	111.86	1.52	1.26	83	0.00	0	OR	2H	2W	
111.86	113.39	1.53	1.35	88	0.26	17	OR	2H	1W	
113.39	114.91	1.52	1.35	89	0.66	43	OR	2H	1W	
114.91	116.43	1.52	1.39	91	0.45	30	OR	2H	1W	
116.43	117.96	1.53	1.43	93	0.00	0	OR	2H	1W	
117.96	119.48	1.52	0.98	64	0.00	0	OR	2H	1W	
119.48	121.01	1.53	1.24	81	0.00	0	OR	2H	1W	
121.01	122.53	1.52	1.32	87	0.31	20	OR	2H	2W	
122.53	124.05	1.52	1.37	90	0.91	60	OR	2H	2W	
124.05	125.58	1.53	1.5	98	1.19	78	OR	2H	2W	
125.58	127.10	1.52	1.52	100	0.93	61	OR	2H	2W	
127.10	128.63	1.53	1.45	95	0.83	54	OR	2H	2W	
128.63	130.15	1.52	1.15	76	0.83	55	OR	2H	2W	
130.15	131.67	1.52	1.36	89	0.93	61	OR	2H	2W	
131.67	133.20	1.53	1.32	86	1.01	66	OR	2H	2W	
133.20	134.72	1.52	1.22	80	1.07	70	OR	2H	2W	
134.72	136.25	1.53	1.29	84	0.16	10	OR	2H	2W	
136.25	137.77	1.52	1.37	90	0.58	38	OR	2H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
137.77	139.29	1.52	1.31	86	0.58	38	OR	2H	2W	
139.29	140.82	1.53	1.26	82	0.71	46	OR	2H	1W	
140.82	142.34	1.52	1.35	89	0.85	56	OR	2H	1W	
142.34	143.87	1.53	1.32	86	0.73	48	OR	2H	1W	
143.87	145.39	1.52	1.4	92	0.87	57	OR	2H	1W	
145.39	146.91	1.52	1.31	86	0.40	26	OR	2H	1W	
146.91	148.44	1.53	1.43	93	0.80	52	OR	2H	1W	
148.44	149.96	1.52	1.41	93	0.71	47	OR	2H	2W	
149.96	151.49	1.53	1.53	100	0.00	0	OR	2H	3W	
151.49	153.01	1.52	1.33	88	0.00	0	OR	2H	3W	
153.01	154.53	1.52	1.29	85	0.00	0	3R	2H	2W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398259	12-363	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398266	12-363	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398274	12-363	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398288	12-365	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398298	12-365	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398468	12-361	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398476	12-361	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398489	12-361	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398498	12-361	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398253	12-363	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.10	2.13	1.03	ARG, OVB	1.03	100	M398461	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.13	3.66	1.53	ARG	0.95	62	M398462	12-355	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	5.18	1.52	ARG	0.48	32	M398463	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	6.71	1.53	ARG	0.56	37	M398464	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	8.23	1.52	ARG	1.22	80	M398465	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	9.39	1.16	ARG	1.16	100	M398466	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.39	11.28	1.89	ARG, LST	0.90	48	M398467	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	14.33	3.05	LST	2.67	88	M398469	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	14.80	0.47	LST	0.47	100	M398470	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.80	15.67	0.87	LST	0.80	92	M398471	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.67	17.37	1.70	LST	1.57	92	M398472	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	18.90	1.53	LST	1.22	80	M398473	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.90	22.75	3.85	ARG, LST	2.94	76	M398474	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.75	24.99	2.24	LST, ARG	2.24	100	M398475	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.99	26.52	1.53	LST	1.47	96	M398477	12-361	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	28.60	2.08	LST	2.04	98	M398478	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28.60	31.09	2.49	ARG, LST	2.45	98	M398479	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31.09	34.14	3.05	ARG	2.94	96	M398480	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34.14	37.19	3.05	ARG	3.02	99	M398481	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34.14	37.19	3.05	ARG	3.02	99	M398482	12-361	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
37.19	40.23	3.04	ARG	2.62	86	M398483	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40.23	43.28	3.05	ARG	2.83	93	M398484	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43.28	46.33	3.05	ARG	2.92	96	M398485	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46.33	49.38	3.05	ARG	2.38	78	M398486	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.38	52.42	3.04	ARG	2.45	81	M398487	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.42	55.47	3.05	ARG	2.77	91	M398488	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	ARG	2.80	92	M398490	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.52	61.57	3.05	ARG	2.73	90	M398491	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.57	63.09	1.52	ARG	1.38	91	M398492	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	64.62	1.53	ARG	1.29	84	M398493	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	64.62	1.53	ARG	1.29	84	M398494	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
64.62	66.14	1.52	ARG	1.33	88	M398495	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	67.67	1.53	ARG	1.41	92	M398496	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
67.67	69.19	1.52	ARG	1.27	84	M398497	12-361	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	70.71	1.52	ARG	1.11	73	M398499	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
70.71	72.24	1.53	ARG	1.51	99	M398500	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	73.76	1.52	ARG	1.40	92	M398251	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
73.76	75.29	1.53	ARG	1.45	95	M398252	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	76.81	1.52	ARG	1.47	97	M398254	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
76.81	78.33	1.52	ARG	1.50	99	M398255	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	79.86	1.53	ARG	1.25	82	M398256	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
79.86	80.76	0.90	ARG	0.81	90	M398257	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
80.76	81.38	0.62	ARG	0.62	100	M398258	12-363	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
81.38	82.91	1.53	ARG	1.42	93	M398260	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82.91	84.43	1.52	ARG	1.11	73	M398261	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.43	85.95	1.52	ARG	1.43	94	M398262	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.95	87.48	1.53	ARG	1.52	99	M398263	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.48	89.00	1.52	ARG	1.41	93	M398264	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89.00	92.05	3.05	ARG	2.98	98	M398265	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92.05	95.10	3.05	ARG	2.40	79	M398267	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95.10	98.15	3.05	ARG	2.99	98	M398268	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98.15	101.19	3.04	ARG	2.88	95	M398269	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101.19	104.24	3.05	ARG	2.96	97	M398270	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101.19	104.24	3.05	ARG	2.96	97	M398271	12-363	A		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
104.24	107.29	3.05	ARG	2.94	96	M398272	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
107.29	110.34	3.05	ARG	2.54	83	M398273	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
110.34	113.39	3.05	ARG	2.61	86	M398275	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
113.39	116.43	3.04	ARG	2.63	87	M398276	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
116.43	117.96	1.53	ARG	1.43	93	M398277	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
117.96	119.48	1.52	ARG	0.48	32	M398278	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
119.48	121.01	1.53	ARG	1.24	81	M398279	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
119.48	121.01	1.53	ARG	1.24	81	M398280	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
121.01	124.05	3.04	ARG	2.89	95	M398281	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.05	125.58	1.53	ARG	1.38	90	M398282	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
125.58	127.10	1.52	ARG	1.52	100	M398283	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.10	128.63	1.53	ARG	1.45	95	M398284	12-363	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
128.63	130.15	1.52	ARG	1.51	99	M398285	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130.15	131.67	1.52	ARG	1.36	89	M398286	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
131.67	133.20	1.53	ARG	1.32	86	M398287	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
133.20	134.72	1.52	ARG	1.22	80	M398289	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
134.72	136.25	1.53	ARG	1.29	84	M398290	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
136.25	137.77	1.52	ARG	1.37	90	M398291	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
137.77	139.29	1.52	ARG	1.31	86	M398292	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
139.29	140.60	1.31	ARG	1.21	92	M398293	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
139.29	140.60	1.31	ARG	1.21	92	M398294	12-365	A		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
140.60	141.04	0.44	ARG	0.40	91	M398295	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
141.04	142.34	1.30	ARG	1.30	100	M398296	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
142.34	143.87	1.53	ARG	1.32	86	M398297	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
143.87	145.39	1.52	ARG	1.40	92	M398299	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
145.39	146.91	1.52	ARG	1.31	86	M398300	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
146.91	148.44	1.53	ARG	1.43	93	M398151	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
148.44	149.96	1.52	ARG	1.41	93	M398152	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
149.96	151.49	1.53	ARG	1.53	100	M398153	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
149.96	151.49	1.53	ARG	1.53	100	M398154	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
151.49	153.01	1.52	ARG	1.33	88	M398155	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
153.01	153.81	0.80	ARG	0.76	95	M398156	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
153.81	154.53	0.72	LST	0.72	100	M398157	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		618534	7113251	1348.04	67.67

ZONE: Anubis

SECTION: \_\_\_\_\_

HOLE: **AN -12-004**

CLAIM: T 2964

Contractor: Superior

Drill: 2

Core Size: HQ

Casing Depth: 6.1m, Out

Drilling Dates: Sep 12 - Sep 14, 2012

Geology Logged By: J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: \_\_\_\_\_

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.63	1.63	OVB
1.63	20.42	18.79	ARG
20.42	24.9	4.48	FLR
24.9	67.67	42.77	LST

SAMPLES	
Numbers:	K311601 to K311606, M398158 to M398200
Total:	49
Batch:	365, 367
Certificates:	VA12222078, WH12219223

COMMENTS
Hole targets gold bearing pits.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.63	1.63	OVB	--	No Recovery.							
						-	-	--	--	-	-	0
1.63	20.42	18.79	ARG	VF	Rubby, highly fractured, strongly oxidized shales. Sections of clayey, completely oxidized, orange-brown material are present. Competent pieces of shale display a high density of oxide filled fracture seams. Fracture seams result in a chaotic breccia pattern. Limonitic seams run ~1000 ppm on the XRF.							
						MD	BN	RB				
						DK	BK	FR	OXI	4I	--	0
20.42	24.90	4.48	FLR	--	Medium orange-brown, highly oxidized clayey fault breccia. Breccia varies from clast to matrix dominant. Matrix material is highly oxidized and clayey. Clasts are dark colored, subrounded to subangular shale fragments. Material becomes calcareous towards the end of the interval.							
						MD	BR	BX	OXI	5I	--	0
24.90	67.67	42.77	LST	--	Footwall limestone unit. Pervasive crackle breccia texture. Typically competent with calcite veining and minor stylolites that post date crackle textures.							
								CR				
						LT	YW	BX	---	--	--	0



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.63	1.63	0	0	0.00	0	--	--	--	Overburden
1.63	2.13	0.50	0.42	84	0.00	0	OR	2H	3W	
2.13	3.66	1.53	0.88	58	0.13	8	OR	2H	2W	
3.66	5.18	1.52	0.53	35	0.00	0	OR	3H	2W	
5.18	6.71	1.53	0.68	44	0.00	0	OR	2H	2W	
6.71	8.23	1.52	1.52	100	0.65	43	OR	3H	3W	
8.23	9.75	1.52	0.97	64	0.00	0	OR	2H	3W	
9.75	11.28	1.53	1.12	73	0.00	0	OR	3H	4W	
11.28	12.80	1.52	1.32	87	0.00	0	OR	2H	4W	
12.80	14.33	1.53	0.82	54	0.00	0	OR	3H	3W	
14.33	15.85	1.52	0.84	55	0.00	0	OR	3H	3W	
15.85	17.37	1.52	0.92	61	0.00	0	OR	2H	3W	
17.37	18.90	1.53	0.97	63	0.14	9	OR	3H	3W	
18.90	20.42	1.52	1.07	70	0.00	0	OR	3H	3W	
20.42	21.95	1.53	0.93	61	0.00	0	OR	1H	3W	
21.95	23.47	1.52	1.23	81	0.00	0	OR	1H	4W	
23.47	24.99	1.52	1.21	80	0.00	0	OR	1H	4W	
24.99	26.52	1.53	0.42	27	0.00	0	4R	3H	2W	
26.52	28.04	1.52	1.17	77	0.41	27	4R	3H	2W	
28.04	29.57	1.53	1.52	99	1.35	88	4R	5H	2W	
29.57	31.09	1.52	1.51	99	1.24	82	4R	5H	2W	
31.09	32.61	1.52	1.3	86	0.45	30	4R	5H	2W	
32.61	34.14	1.53	1.5	98	1.44	94	4R	5H	2W	
34.14	35.66	1.52	1.52	100	0.89	59	4R	5H	2W	
35.66	37.19	1.53	1.53	100	1.06	69	4R	5H	2W	
37.19	38.71	1.52	1.16	76	0.90	59	4R	4H	2W	
38.71	40.23	1.52	0.69	45	0.21	14	4R	1H	2W	
40.23	41.76	1.53	1.14	75	0.11	7	4R	1H	2W	
41.76	43.28	1.52	0.92	61	0.10	7	4R	1H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
43.28	44.81	1.53	1.19	78	0.55	36	4R	4H	2W	
44.81	46.33	1.52	1.52	100	0.76	50	4R	4H	2W	
46.33	47.85	1.52	1.29	85	0.76	50	4R	5H	2W	
47.85	49.38	1.53	1.47	96	1.14	75	4R	5H	2W	
49.38	50.90	1.52	1.26	83	0.51	34	4R	5H	2W	
50.90	52.43	1.53	1.44	94	1.15	75	4R	5H	2W	
52.43	53.95	1.52	1.26	83	0.86	57	4R	5H	2W	
53.95	55.47	1.52	1.52	100	0.77	51	4R	5H	2W	
55.47	57.00	1.53	1.48	97	0.78	51	4R	5H	2W	
57.00	58.52	1.52	1.36	89	1.12	74	4R	5H	2W	
58.52	60.05	1.53	1.53	100	1.53	100	4R	5H	2W	
60.05	61.57	1.52	1.35	89	1.29	85	4R	5H	2W	
61.57	63.09	1.52	1.52	100	1.35	89	4R	5H	2W	
63.09	64.62	1.53	1.43	93	1.41	92	4R	5H	2W	
64.62	66.14	1.52	1.52	100	1.11	73	4R	5H	1W	
66.14	67.67	1.53	1.35	88	1.06	69	4R	5H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398166	12-365	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398173	12-367	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398178	12-367	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398185	12-367	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398188	12-367	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398160	12-365	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.63	2.13	0.50	ARG, OVB	0.42	84	M398158	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.13	3.66	1.53	ARG	0.88	58	M398159	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	5.18	1.52	ARG	0.53	35	M398161	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	6.71	1.53	ARG	0.68	44	M398162	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	8.23	1.52	ARG	1.52	100	M398163	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	9.75	1.52	ARG	0.97	64	M398164	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.75	11.20	1.45	ARG	1.10	76	M398165	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.20	11.78	0.58	ARG	0.58	100	M398167	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.78	12.80	1.02	ARG	0.85	83	M398168	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.80	14.33	1.53	ARG	1.32	86	M398169	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	15.85	1.52	ARG	0.84	55	M398170	12-365	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	17.37	1.52	ARG	0.92	61	M398171	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	18.90	1.53	ARG	0.97	63	M398172	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.90	20.42	1.52	ARG	1.07	70	M398174	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	21.95	1.53	FLR, ARG	0.93	61	M398175	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.95	23.47	1.52	FLR	1.23	81	M398176	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.47	24.90	1.43	FLR	1.17	82	M398177	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.90	26.52	1.62	LST, FLR	0.50	31	M398179	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	28.04	1.52	LST	1.52	100	M398186	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.04	29.57	1.53	LST	1.52	99	M398180	12-367	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	31.09	1.52	LST	1.51	99	M398181	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31.09	32.61	1.52	LST	1.30	86	M398182	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32.61	34.14	1.53	LST	1.50	98	M398183	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34.14	35.66	1.52	LST	1.52	100	M398184	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35.66	37.19	1.53	LST	1.53	100	M398187	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
37.19	39.10	1.91	LST	1.60	84	M398189	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
39.10	41.43	2.33	LST	1.31	56	M398190	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41.43	43.28	1.85	LST	0.92	50	M398191	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41.43	43.28	1.85	LST	0.92	50	M398192	12-367	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
43.28	44.81	1.53	LST	1.19	78	M398193	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44.81	46.33	1.52	LST	1.52	100	M398194	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46.33	47.85	1.52	LST	1.29	85	M398195	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47.85	49.38	1.53	LST	1.47	96	M398196	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.38	50.90	1.52	LST	1.26	83	M398197	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50.90	52.43	1.53	LST	1.44	94	M398198	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.43	53.95	1.52	LST	1.26	83	M398199	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.95	55.47	1.52	LST	1.52	100	M398200	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	57.00	1.53	LST	1.48	97	K311601	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	57.00	1.53	LST	1.48	97	K311602	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
57.00	58.52	1.52	LST	1.36	89	K311603	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.52	61.57	3.05	LST	2.88	94	K311604	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.57	64.62	3.05	LST	2.95	97	K311605	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.62	67.67	3.05	LST	2.87	94	K311606	12-367	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		618534	7113251	1347.94	75.29

**ZONE:** Anubis

**SECTION:** \_\_\_\_\_

**HOLE: AN -12-005**

**CLAIM:** T 2964

Contractor: Superior

Drill: 2

Core Size: HQ

Casing Depth: 5.18m, Out

Drilling Dates: Sep 16 - Sep 17, 2012

Geology Logged By: J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method
14.32	359.3	-89.7	Reflex
75.28	18.4	-88.9	Reflex

**TARGET:** \_\_\_\_\_

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.2	0.2	OVB
0.2	26.65	26.45	ARG
26.65	38.85	12.2	FLR
38.85	75.29	36.44	LST

SAMPLES	
Numbers:	K311607 to K311650, M398201 to M398204
Total:	49
Batch:	372, 374
Certificates:	VA12222077, WH12224096

COMMENTS
Vertical hole targeting fault zone.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.20	0.20	OVB	--	No Recovery.							
						--	--	--	--	0I	--	0
0.20	26.65	26.45	ARG	VF	Highly fractured and rubbly shales. Material is variably oxidized. The highest degree of oxidation is associated with medium brown, low competency clayey material. More competent pieces display oxidation restricted to fracture faces and fracture seams. Shales are non calcareous and generally massive. Bedding fabrics are not well defined. Competent pieces display chaotic fracture patterns. 15 cm of white-black, well sorted, medium grained sandstone occurs at 19.80 m.							
						MD	BR	RB				
						DK	BK	FR	OXI	3I	--	0
26.65	38.85	12.20	FLR	--	Clayey, low competency, sometimes rubbly fault breccia. The majority of matrix material is pervasively oxidized, medium brown in color and non calcareous. The dominant protolith for the interval appears to be shales. Relative proportions of matrix and clasts components are highly variable. Matrix is clayey, oxide material while clastic component is predominantly subangular shale fragments. The last 41 cm of the interval is much lighter color (orange-brown) highly calcareous and has relict limestone fragments. No recovery between 35.66 and 37.19 m.							
						MD	BR	BX	OXI	5I	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
38.85	75.29	36.44	LST	-	Highly calcareous, typically competent limestone containing a pervasive crackle breccia texture defined by a chaotic network of thin, black fracture seams. Limestone in between the black seams is generally very light grey in color. The upper 15 m of the interval is significantly more fractured and rubbly than the lower portion. The upper portion of the interval also contains localized, decimetric scale pockerts of clayey, variably oxidized gouge like material. After 15 m limestone is highly competent. Oxidation is restricted to fracture faces. Calcite veins occur at a density of ~5/m at 45 degrees TCA. Calcite veins crosscut breccia textures. No primary fabrics are observed.			MA				
						LT	GY	CR	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.13	2.13	0.62	29	0.62	29	OR	2H	1W	
2.13	3.66	1.53	0.7	46	0.18	12	OR	2H	1W	
3.66	5.18	1.52	1.47	97	0.25	16	OR	2H	1W	
5.18	6.71	1.53	1.11	73	0.11	7	OR	2H	3W	
6.71	8.23	1.52	1.3	86	0.00	0	OR	2H	3W	
8.23	9.75	1.52	1.2	79	0.28	18	OR	2H	3W	
9.75	11.28	1.53	1.33	87	0.54	35	OR	2H	3W	
11.28	12.80	1.52	1.07	70	0.00	0	OR	2H	3W	
12.80	14.33	1.53	1.31	86	0.45	29	OR	3H	3W	
14.33	15.85	1.52	1.12	74	0.21	14	OR	2H	3W	
15.85	17.37	1.52	1.34	88	0.21	14	OR	2H	3W	
17.37	18.90	1.53	1.33	87	0.20	13	OR	2H	3W	
18.90	20.42	1.52	1.13	74	0.14	9	OR	2H	3W	
20.42	21.95	1.53	1.11	73	0.10	7	OR	2H	3W	
21.95	23.47	1.52	1.38	91	0.43	28	OR	2H	3W	
23.47	24.99	1.52	1.27	84	0.15	10	OR	2H	3W	
24.99	26.52	1.53	0.79	52	0.24	16	OR	2H	3W	
26.52	28.04	1.52	0.93	61	0.00	0	OR	2H	1W	
28.04	29.57	1.53	1.02	67	0.00	0	OR	2H	1W	
29.57	31.09	1.52	0.91	60	0.00	0	OR	2H	1W	
31.09	32.61	1.52	1.2	79	0.26	17	OR	3H	1W	
32.61	34.14	1.53	1.21	79	0.72	47	OR	1H	1W	
34.14	35.66	1.52	1.29	85	0.52	34	OR	1H	1W	
35.66	37.19	1.53	0	0	0.00	0	OR	1H	1W	
37.19	38.71	1.52	0.55	36	0.00	0	4R	1H	3W	
38.71	40.23	1.52	1.25	82	0.00	0	1R	3H	3W	
40.23	41.76	1.53	1.3	85	0.38	25	4R	3H	3W	
41.76	43.28	1.52	0.94	62	0.00	0	4R	3H	3W	
43.28	44.81	1.53	1.14	75	0.00	0	4R	3H	3W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.2	79	0.22	14	4R	3H	3W	
46.33	47.85	1.52	1.02	67	0.24	16	4R	3H	3W	
47.85	49.38	1.53	0.84	55	0.00	0	4R	3H	3W	
49.38	50.90	1.52	1.37	90	1.07	70	4R	3H	3W	
50.90	52.43	1.53	1.07	70	0.21	14	4R	3H	3W	
52.43	53.95	1.52	1.17	77	0.66	43	4R	3H	3W	
53.95	55.47	1.52	1.38	91	0.62	41	4R	3H	3W	
55.47	57.00	1.53	1.28	84	0.79	52	4R	3H	3W	
57.00	58.52	1.52	1.48	97	0.95	63	4R	3H	3W	
58.52	60.05	1.53	1.29	84	1.17	76	4R	3H	3W	
60.05	61.57	1.52	1.46	96	0.91	60	4R	3H	3W	
61.57	63.09	1.52	1.52	100	1.47	97	4R	3H	3W	
63.09	64.62	1.53	1.47	96	0.84	55	4R	3H	3W	
64.62	66.14	1.52	1.21	80	0.87	57	4R	3H	3W	
66.14	67.67	1.53	1.51	99	0.97	63	4R	3H	3W	
67.67	69.19	1.52	1.52	100	1.04	68	4R	3H	3W	
69.19	70.71	1.52	1.48	97	1.09	72	4R	3H	3W	
70.71	72.24	1.53	1.34	88	1.28	84	4R	3H	3W	
72.24	75.29	3.05	1.4	46	0.90	30	4R	3H	3W	End Of Hole

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K311618	12-372	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311630	12-372	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311636	12-372	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311646	12-374	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398204	12-374	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K311610	12-372	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.20	2.13	1.93	ARG, OVB	0.62	32	K311607	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.13	3.66	1.53	ARG	0.70	46	K311608	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	5.18	1.52	ARG	1.47	97	K311609	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	8.23	3.05	ARG	2.41	79	K311611	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	11.28	3.05	ARG	2.53	83	K311612	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	14.33	3.05	ARG	2.38	78	K311613	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	ARG	2.46	81	K311614	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	20.42	3.05	ARG	2.46	81	K311615	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	21.95	1.53	ARG	1.11	73	K311616	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.95	24.99	3.04	ARG	2.65	87	K311617	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.99	26.52	1.53	ARG	0.79	52	K311619	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	28.04	1.52	ARG	0.93	61	K311620	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.04	29.57	1.53	FLR	1.02	67	K311621	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	31.09	1.52	FLR	0.91	60	K311622	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	31.09	1.52	FLR	0.91	60	K311623	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31.09	32.61	1.52	FLR	1.20	79	K311624	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	34.14	1.53	FLR	1.21	79	K311642	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.14	35.66	1.52	FLR	1.29	85	K311625	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.19	38.85	1.66	FLR	0.75	45	K311626	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.85	40.23	1.38	LST, FLR	1.38	100	K311627	12-372	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.23	41.76	1.53	LST	1.30	85	K311628	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41.76	43.28	1.52	LST	0.94	62	K311629	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43.28	44.81	1.53	LST	1.14	75	K311631	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44.81	46.33	1.52	LST	1.20	79	K311632	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46.33	47.85	1.52	LST	1.02	67	K311633	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47.85	49.38	1.53	LST	0.84	55	K311634	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.38	50.90	1.52	LST	1.37	90	K311635	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50.90	52.43	1.53	LST	1.02	67	K311637	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.43	53.95	1.52	LST	1.17	77	K311638	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.95	55.47	1.52	LST	1.38	91	K311639	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	LST	2.76	90	K311640	12-372	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	LST	2.76	90	K311641	12-372	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
58.52	61.57	3.05	LST	2.65	87	K311643	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.57	63.09	1.52	LST	1.47	97	K311644	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	66.14	3.05	LST	2.68	88	K311645	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	67.67	1.53	LST	1.51	99	M398203	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
67.67	69.19	1.52	LST	1.52	100	K311647	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	70.71	1.52	LST	1.48	97	K311648	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	70.71	1.52	LST	1.48	97	K311649	12-374	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
70.71	72.24	1.53	LST	1.34	88	K311650	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	73.76	1.52	LST	1.36	89	M398201	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
73.76	75.29	1.53	LST	1.40	92	M398202	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		619024	7113516	1426.81	300.23

**ZONE:** Anubis

**SECTION:**

**HOLE: AN -12-006**

**CLAIM:** Dale 10

Contractor: Superior

Drill: 2

Core Size: HQ

Casing Depth: 4.57m, Out

Drilling Dates: Sep 18 - Sep 24, 2012

Geology Logged By: J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method
20.42	213.4	-59.9	Reflex
300.22	214.8	-51	Reflex

**TARGET:**

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.78	1.78	OVb
1.78	83.88	82.1	LST
83.88	93.7	9.82	SLT
93.7	175.45	81.75	LST
175.45	300.23	124.78	ARG

SAMPLES	
Numbers:	M398205 to M398250, M398351 to M398400, M400001 to M400058
Total:	154
Batch:	374, 376, 378, 380, 381
Certificates:	WH12224096, WH12224097, WH12225649, WH12233185, WH12233186

COMMENTS
Targets gold in pit.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.78	1.78	OVB	--	No Recovery.							
						--	--	--	--	--	--	0
1.78	83.88	82.10	LST	CG	Highly altered (oxidation and decarbonitization) fossiliferous limestone package. Competent, unaltered pieces of limestone are predominantly fossiliferous floatstones and wackestones. Altered material is extremely sandy, low competency and various shades of brown in color.							
						MD	GY		OXI	4I		
						MD	BN	FL	DCA	4I	--	0
83.88	93.70	9.82	SLT	FG	Brown siltstone, weakly calcareous							
						MD	BN	BD	OXI	4I	--	0
93.70	175.45	81.75	LST	CG	Highly altered (oxidation and decarbonitization) fossiliferous limestone package. Competent, unaltered pieces of limestone are predominantly fossiliferous floatstones and wackestones. Altered material is extremely sandy, low competency and various shades of brown in color.							
						MD	GY		OXI	4I		
						MD	BN	FL	DCA	4I	--	0
175.45	300.23	124.78	ARG	VF	Dark grey to black argillaceous shales. CaCO <sub>3</sub> content decreases with depth while silica content appears to increase. Quartz and calcite veining is present variably throughout. Minor sphalerite occurs in association with quartz veining. Material is typically moderately fractured.							
								MA			Sp	0.01
						DK	GY	BD	SIL	2I	Py	0.05

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.78	1.78	0	0	0.00	0	--	--	--	enters
1.78	2.13	0.35	0.31	89	0.00	0	4R	2H	1W	
2.13	3.66	1.53	0.13	8	0.00	0	4R	2H	1W	
3.66	5.18	1.52	0.65	43	0.33	22	4R	2H	1W	
5.18	6.71	1.53	0.91	59	0.61	40	OR	1H	1W	
6.71	9.75	3.04	2.32	76	0.98	32	OR	2H	1W	
9.75	11.28	1.53	1.19	78	0.65	42	4R	3H	1W	
11.28	12.80	1.52	0.85	56	0.48	32	OR	1H	1W	
12.80	14.33	1.53	1.44	94	1.33	87	OR	1H	1W	
14.33	15.85	1.52	1.33	88	1.14	75	OR	1H	1W	
15.85	17.37	1.52	1.32	87	0.91	60	4R	1H	1W	
17.37	18.90	1.53	1.45	95	1.36	89	OR	1H	1W	
18.90	20.42	1.52	1.49	98	1.19	78	OR	1H	1W	
20.42	21.95	1.53	1.32	86	1.07	70	OR	1H	1W	
21.95	23.47	1.52	1.32	87	0.91	60	OR	1H	4W	
23.47	24.99	1.52	1.49	98	0.93	61	OR	1H	4W	
24.99	26.52	1.53	1.46	95	1.11	73	OR	1H	4W	
26.52	28.04	1.52	1.22	80	1.04	68	4R	2H	3W	
28.04	29.57	1.53	1.44	94	1.16	76	4R	2H	3W	
29.57	31.09	1.52	1.38	91	0.68	45	4R	2H	3W	
31.09	32.61	1.52	1.4	92	0.97	64	4R	3H	3W	
32.61	34.14	1.53	1.21	79	1.09	71	3R	2H	4W	
34.14	35.66	1.52	1.52	100	0.89	59	3R	2H	4W	
35.66	37.19	1.53	1.34	88	1.24	81	3R	2H	3W	
37.19	38.71	1.52	1.51	99	1.22	80	3R	2H	3W	
38.71	40.23	1.52	1.28	84	0.93	61	3R	2H	3W	
40.23	41.76	1.53	1.3	85	0.59	39	4R	2H	2W	
41.76	43.28	1.52	1.19	78	0.67	44	4R	2H	3W	
43.28	44.81	1.53	1.49	97	0.61	40	4R	2H	4W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.2	79	0.49	32	4R	3H	3W	
46.33	47.85	1.52	1.47	97	0.49	32	4R	2H	4W	
47.85	49.38	1.53	1.29	84	0.75	49	4R	2H	3W	
49.38	50.90	1.52	1.52	100	0.00	0	4R	3H	4W	
50.90	52.43	1.53	1.22	80	0.25	16	4R	2H	3W	
52.43	53.95	1.52	1.4	92	0.61	40	4R	2H	3W	
53.95	55.47	1.52	1.31	86	0.75	49	4R	3H	3W	
55.47	57.00	1.53	1.37	90	0.76	50	4R	3H	2W	
57.00	58.52	1.52	1.42	93	0.51	34	4R	3H	2W	
58.52	60.05	1.53	1.53	100	0.32	21	4R	4H	2W	
60.05	61.57	1.52	1.27	84	0.45	30	4R	4H	3W	
61.57	63.09	1.52	1.52	100	1.18	78	4R	4H	1W	
63.09	64.62	1.53	1.33	87	0.29	19	3R	2H	3W	
64.62	66.14	1.52	1.52	100	0.00	0	4R	2H	4W	
66.14	67.67	1.53	1.53	100	0.10	7	4R	2H	4W	
67.67	69.19	1.52	1.52	100	0.12	8	4R	3H	4W	
69.19	70.71	1.52	1.32	87	0.00	0	4R	3H	4W	
70.71	72.24	1.53	1.53	100	0.77	50	4R	4H	2W	
72.24	73.76	1.52	1.44	95	0.73	48	4R	4H	3W	
73.76	75.29	1.53	1.32	86	0.11	7	4R	3H	2W	
75.29	76.81	1.52	1.28	84	0.00	0	4R	3H	3W	
76.81	78.33	1.52	1.47	97	0.79	52	4R	4H	2W	
78.33	79.86	1.53	1.5	98	0.58	38	4R	3H	3W	
79.86	81.38	1.52	1.31	86	0.66	43	4R	4H	3W	
81.38	82.91	1.53	1.17	76	0.00	0	4R	2H	3W	
82.91	84.43	1.52	1.48	97	0.25	16	4R	2H	3W	
84.43	85.95	1.52	1.49	98	0.00	0	2R	2H	3W	
85.95	87.48	1.53	1.53	100	0.53	35	0R	2H	2W	
87.48	89.00	1.52	1.52	100	0.53	35	3R	2H	2W	
89.00	90.53	1.53	1.28	84	1.27	83	4R	3H	2W	
90.53	92.05	1.52	1.41	93	0.47	31	3R	2H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
92.05	93.57	1.52	1.46	96	0.98	64	0R	2H	2W	
93.57	95.10	1.53	1.4	92	0.77	50	4R	3H	2W	
95.10	96.62	1.52	1.33	88	0.86	57	4R	4H	2W	
96.62	98.15	1.53	1.48	97	0.87	57	4R	4H	3W	
98.15	99.67	1.52	1.51	99	0.15	10	3R	2H	4W	
99.67	101.19	1.52	1.22	80	0.00	0	3R	2H	4W	
101.19	102.72	1.53	1.43	93	0.00	0	3R	2H	3W	
102.72	104.24	1.52	1.41	93	0.00	0	0R	2H	3W	
104.24	105.77	1.53	1.53	100	0.00	0	3R	2H	3W	
105.77	107.29	1.52	1.42	93	0.22	14	4R	2H	3W	
107.29	108.81	1.52	1.41	93	0.32	21	4R	2H	4W	
108.81	110.34	1.53	1.53	100	0.27	18	4R	2H	3W	
110.34	111.86	1.52	1.38	91	0.15	10	4R	3H	1W	
111.86	113.39	1.53	1.15	75	0.11	7	4R	2H	3W	
113.39	114.91	1.52	0.84	55	0.12	8	4R	2H	3W	
114.91	116.43	1.52	1.2	79	0.80	53	4R	1H	3W	
116.43	117.96	1.53	1.5	98	0.12	8	4R	1H	3W	
117.96	119.48	1.52	1.28	84	0.00	0	4R	1H	3W	
119.48	121.01	1.53	1.1	72	0.00	0	4R	1H	3W	
121.01	122.53	1.52	1.16	76	0.11	7	4R	1H	3W	
122.53	124.05	1.52	1.41	93	0.15	10	4R	1H	3W	
124.05	125.58	1.53	0.98	64	0.21	14	4R	5H	2W	
125.58	127.10	1.52	1.24	82	0.95	63	4R	5H	2W	
127.10	130.15	3.05	2.25	74	0.21	7	4R	5H	2W	
130.15	133.20	3.05	2.71	89	0.34	11	4R	5H	2W	
133.20	136.25	3.05	2.93	96	0.37	12	4R	4H	3W	
136.25	139.29	3.04	1.83	60	0.00	0	4R	3H	3W	
139.29	142.34	3.05	1.52	50	0.14	5	4R	3H	3W	
142.34	145.39	3.05	0.5	16	0.00	0	4R	3H	3W	
145.39	148.44	3.05	2.01	66	0.00	0	4R	4H	3W	
148.44	151.49	3.05	0.61	20	0.00	0	4R	4H	3W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
151.49	154.53	3.04	3.04	100	0.35	12	4R	4H	3W	
154.53	157.58	3.05	1.65	54	0.00	0	4R	5H	3W	
157.58	160.63	3.05	2.5	82	0.00	0	4R	5H	3W	
160.63	163.68	3.05	2.61	86	0.00	0	4R	4H	1W	
163.68	166.73	3.05	2.77	91	0.28	9	4R	4H	1W	
166.73	169.77	3.04	1.3	43	0.00	0	4R	4H	1W	
169.77	172.82	3.05	2.84	93	0.33	11	4R	4H	1W	
172.82	175.87	3.05	2.7	89	0.65	21	4R	4H	1W	
175.87	178.92	3.05	2.47	81	0.41	13	4R	4H	1W	
178.92	181.97	3.05	3.05	100	0.35	11	3R	5H	1W	
181.97	185.01	3.04	3	99	0.93	31	3R	5H	1W	
185.01	188.06	3.05	2.96	97	0.61	20	3R	5H	1W	
188.06	191.11	3.05	2.97	97	0.50	16	3R	5H	1W	
191.11	194.16	3.05	2.98	98	0.70	23	4R	4H	1W	
194.16	197.21	3.05	3.05	100	0.16	5	4R	4H	1W	
197.21	200.25	3.04	2.75	90	0.78	26	4R	4H	1W	
200.25	203.30	3.05	3.05	100	0.46	15	4R	4H	1W	
203.30	206.35	3.05	3.05	100	1.00	33	4R	4H	1W	
206.35	209.40	3.05	2.99	98	1.67	55	4R	4H	1W	
209.40	212.45	3.05	2.37	78	0.35	11	4R	4H	1W	
212.45	215.49	3.04	3.04	100	0.11	4	4R	4H	1W	
215.49	218.54	3.05	2.66	87	0.20	7	0R	4H	1W	
218.54	221.59	3.05	3.05	100	0.96	31	0R	4H	1W	
221.59	224.64	3.05	3.05	100	0.50	16	0R	5H	1W	
224.64	227.69	3.05	2.61	86	0.31	10	0R	5H	1W	
227.69	230.73	3.04	2.73	90	0.54	18	0R	5H	1W	
230.73	233.78	3.05	3.05	100	0.46	15	0R	5H	1W	
233.78	236.83	3.05	3.05	100	0.95	31	0R	5H	1W	
236.83	239.88	3.05	3.05	100	0.53	17	0R	5H	1W	
239.88	242.93	3.05	3.05	100	0.78	26	0R	5H	1W	
242.93	245.97	3.04	2.84	93	0.50	16	0R	5H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
245.97	249.02	3.05	3.05	100	0.58	19	OR	5H	1W	
249.02	252.07	3.05	3.05	100	0.75	25	OR	5H	1W	
252.07	255.12	3.05	3.05	100	0.13	4	OR	5H	1W	
255.12	258.17	3.05	3.05	100	0.18	6	OR	5H	1W	
258.17	261.21	3.04	3.04	100	0.26	9	OR	5H	1W	
261.21	264.26	3.05	2.77	91	0.15	5	OR	5H	1W	
264.26	267.31	3.05	2.83	93	0.70	23	OR	5H	1W	
267.31	270.36	3.05	3.05	100	0.00	0	OR	5H	1W	
270.36	273.41	3.05	2.76	90	0.00	0	OR	5H	1W	
273.41	276.45	3.04	2.87	94	0.57	19	OR	5H	1W	
276.45	279.50	3.05	3.05	100	0.00	0	OR	5H	1W	
279.50	282.55	3.05	3.05	100	0.30	10	OR	5H	1W	
282.55	285.60	3.05	2.5	82	0.00	0	OR	5H	1W	
285.60	288.65	3.05	3	98	0.00	0	OR	5H	1W	
288.65	291.69	3.04	2.7	89	0.39	13	OR	5H	1W	
291.69	294.74	3.05	2.6	85	0.00	0	OR	5H	1W	
294.74	297.79	3.05	2.49	82	0.40	13	OR	5H	1W	
297.79	300.23	2.44	1.29	53	0.00	0	OR	5H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398382	12-378	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400055	12-381	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400047	12-381	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400040	12-381	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400028	12-380	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400016	12-380	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400012	12-380	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398215	12-374	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398385	12-378	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398374	12-378	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398367	12-378	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398361	12-376	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398250	12-376	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398238	12-376	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398233	12-376	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398221	12-374	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400005	12-380	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.78	2.13	0.35	LST, OVB	0.31	89	M398205	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.13	3.66	1.53	LST	0.20	13	M398206	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	5.18	1.52	LST	0.65	43	M398207	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	6.71	1.53	LST	0.91	59	M398208	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	7.80	1.09	LST	1.09	100	M398209	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	7.80	1.09	LST	1.09	100	M398210	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7.80	9.75	1.95	LST	1.75	90	M398211	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.75	11.28	1.53	LST	1.19	78	M398212	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	12.80	1.52	LST	0.85	56	M398213	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.80	14.33	1.53	LST	1.44	94	M398214	12-374	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	15.85	1.52	LST	1.33	88	M398216	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15.85	17.37	1.52	LST	1.32	87	M398217	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17.37	18.90	1.53	LST	1.45	95	M398218	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18.90	20.42	1.52	LST	1.49	98	M398219	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20.42	21.95	1.53	LST	1.32	86	M398220	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21.95	23.47	1.52	LST	1.32	87	M398222	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23.47	24.99	1.52	LST	1.49	98	M398223	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24.99	26.52	1.53	LST	1.46	95	M398224	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26.52	28.04	1.52	LST	1.22	80	M398225	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28.04	29.57	1.53	LST	1.44	94	M398226	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29.57	31.09	1.52	LST	1.38	91	M398227	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31.09	32.61	1.52	LST	1.40	92	M398228	12-374	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32.61	34.14	1.53	LST	1.21	79	M398229	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34.14	34.90	0.76	LST	0.76	100	M398230	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34.90	37.19	2.29	LST	2.07	90	M398231	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
37.19	40.10	2.91	LST	2.45	84	M398232	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40.10	41.76	1.66	LST	1.41	85	M398234	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41.76	44.81	3.05	LST	2.68	88	M398235	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44.81	47.85	3.04	LST	2.67	88	M398236	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47.85	50.90	3.05	LST	2.81	92	M398237	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50.90	53.95	3.05	LST	2.62	86	M398239	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.95	57.00	3.05	LST	2.68	88	M398240	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.00	60.05	3.05	LST	2.95	97	M398241	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.05	63.09	3.04	LST	2.75	90	M398242	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	64.62	1.53	LST	1.33	87	M398243	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.62	66.14	1.52	LST	1.52	100	M398244	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	67.67	1.53	LST	1.53	100	M398245	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	67.67	1.53	LST	1.53	100	M398246	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
67.67	69.19	1.52	LST	1.52	100	M398247	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69.19	71.43	2.24	LST	2.04	91	M398248	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
71.43	73.76	2.33	LST	2.30	99	M398249	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
73.76	76.81	3.05	LST	2.60	85	M398351	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
76.81	78.33	1.52	LST	1.47	97	M398352	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	81.38	3.05	LST	2.81	92	M398353	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	83.88	2.50	LST	2.40	96	M398354	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	83.88	2.50	LST	2.40	96	M398355	12-376	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
83.88	85.95	2.07	LST, SLT	2.07	100	M398356	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
85.95	87.48	1.53	SLT	1.53	100	M398357	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.48	90.53	3.05	SLT	2.80	92	M398358	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	92.05	1.52	SLT	1.41	93	M398359	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
92.05	93.70	1.65	SLT	1.65	100	M398360	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.70	96.62	2.92	LST, SLT	2.05	70	M398362	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96.62	98.00	1.38	LST	1.30	94	M398363	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
98.00	99.67	1.67	LST	1.67	100	M398364	12-376	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	102.72	3.05	LST	2.65	87	M398365	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.72	104.24	1.52	LST	1.41	93	M398366	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
104.24	105.77	1.53	LST	1.53	100	M398368	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.77	107.29	1.52	LST	1.42	93	M398369	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
107.29	108.81	1.52	LST	1.41	93	M398370	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.81	109.30	0.49	LST	0.49	100	M398371	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
109.30	109.80	0.50	LST	0.50	100	M398372	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
109.80	110.34	0.54	LST	0.54	100	M398373	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
110.34	110.95	0.61	LST	0.61	100	M398375	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
110.95	112.00	1.05	LST	1.05	100	M398376	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
112.00	113.39	1.39	LST	1.39	100	M398377	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
112.00	113.39	1.39	LST	1.37	99	M398378	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
113.39	114.91	1.52	LST	0.84	55	M398379	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
114.91	117.96	3.05	LST	2.70	89	M398380	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
117.96	121.01	3.05	LST	2.38	78	M398381	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
121.01	122.53	1.52	LST	1.16	76	M398383	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.53	123.85	1.32	LST	1.22	92	M398384	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
123.85	125.58	1.73	LST	1.52	88	M398386	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
125.58	127.10	1.52	LST	1.24	82	M398387	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
127.10	130.15	3.05	LST	2.25	74	M398388	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
130.15	133.20	3.05	LST	2.71	89	M398389	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133.20	136.25	3.05	LST	2.93	96	M398390	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133.20	136.25	3.05	LST	2.93	96	M398391	12-378	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
136.25	139.29	3.04	LST	1.83	60	M398392	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
139.29	142.34	3.05	LST	1.52	50	M398393	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142.34	145.39	3.05	LST	0.50	16	M398394	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
145.39	148.44	3.05	LST	2.01	66	M398395	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
148.44	151.49	3.05	LST	0.61	20	M398396	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
151.49	154.53	3.04	LST	3.04	100	M398397	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
154.53	157.58	3.05	LST	1.65	54	M398398	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
157.58	160.63	3.05	LST	2.50	82	M398399	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
160.63	163.68	3.05	LST	2.61	86	M398400	12-378	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
163.68	166.73	3.05	LST	2.77	91	M400001	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
166.73	169.71	2.98	LST	1.30	44	M400002	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
169.71	172.82	3.11	LST	2.84	91	M400003	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
172.82	175.45	2.63	LST	2.30	87	M400004	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
175.45	177.88	2.43	LST, ARG	1.97	81	M400006	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
177.88	178.92	1.04	ARG	1.01	97	M400007	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
178.92	180.25	1.33	ARG	1.30	98	M400008	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
180.25	181.00	0.75	ARG	0.75	100	M400009	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
181.00	181.97	0.97	ARG	0.97	100	M400010	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.97	185.01	3.04	ARG	3.00	99	M400011	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
185.01	188.06	3.05	ARG	2.96	97	M400013	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
188.06	191.11	3.05	ARG	2.97	97	M400014	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
191.11	194.16	3.05	ARG	2.98	98	M400015	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
194.16	197.21	3.05	ARG	3.05	100	M400017	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
197.21	200.25	3.04	ARG	2.75	90	M400018	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
200.25	203.30	3.05	ARG	3.05	100	M400019	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
203.30	206.35	3.05	ARG	3.05	100	M400020	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
206.35	209.40	3.05	ARG	2.99	98	M400021	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
209.40	212.45	3.05	ARG	2.37	78	M400022	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
209.40	212.45	3.05	ARG	2.37	78	M400023	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
212.45	215.49	3.04	ARG	3.04	100	M400024	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
215.49	218.54	3.05	ARG	2.66	87	M400025	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
218.54	221.59	3.05	ARG	3.05	100	M400026	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
221.59	224.64	3.05	ARG	3.05	100	M400029	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
224.64	227.69	3.05	ARG	2.61	86	M400030	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
224.64	227.69	3.05	ARG	2.61	86	M400031	12-380	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
227.69	230.73	3.04	ARG	2.73	90	M400032	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
230.73	233.78	3.05	ARG	3.05	100	M400033	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
233.78	236.83	3.05	ARG	3.05	100	M400034	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
236.83	239.88	3.05	ARG	3.05	100	M400035	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
239.88	242.93	3.05	ARG	3.05	100	M400036	12-380	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
242.93	245.97	3.04	ARG	2.84	93	M400037	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
245.97	249.02	3.05	ARG	3.05	100	M400038	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
249.02	252.07	3.05	ARG	3.05	100	M400039	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
252.07	255.12	3.05	ARG	3.05	100	M400041	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
255.12	258.17	3.05	ARG	3.05	100	M400042	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
258.17	261.21	3.04	ARG	3.04	100	M400043	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
261.21	264.26	3.05	ARG	2.77	91	M400044	12-381	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
264.26	267.31	3.05	ARG	2.83	93	M400045	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
267.31	270.36	3.05	ARG	3.05	100	M400046	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
270.36	273.41	3.05	ARG	2.76	90	M400048	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
273.41	276.45	3.04	ARG	2.87	94	M400049	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
276.45	279.50	3.05	ARG	3.05	100	M400050	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
279.50	282.55	3.05	ARG	3.05	100	M400051	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
282.55	285.60	3.05	ARG	2.58	85	M400027	12-380	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
285.60	288.65	3.05	ARG	3.00	98	M400052	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
288.65	291.69	3.04	ARG	2.70	89	M400053	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
291.69	294.74	3.05	ARG	2.60	85	M400054	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
294.74	297.79	3.05	ARG	2.49	82	M400056	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
297.79	300.23	2.44	ARG	1.29	53	M400057	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
297.79	300.23	2.44	ARG	1.29	53	M400058	12-381	A		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>





# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		622543	7113216	1371.33	146.91

**ZONE:** GT Showing

**SECTION:**

**HOLE: GT -12-001**

**CLAIM:** T 2982

Contractor: Superior

Drill: 2

Core Size: HQ

Casing Depth: 7.62m, Out

Drilling Dates: Sep 26 - Sep 29, 2012

Geology Logged By: J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method
24.99	232.8	-49.6	Reflex
146.91	29.6	-49.1	Reflex

**TARGET:**

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3	3	OVB
3	3.66	0.66	LST
3.66	146.91	143.25	DST

SAMPLES	
Numbers:	M400059 to M400100, M400251 to M400276
Total:	68
Batch:	381, 390, 392
Certificates:	WH12233186, WH12233305, WH12233307

COMMENTS
Hole targets surface showing of altered dolostone and realgar.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.00	3.00	OVB	--	No Recovery.	--	--	--	--	--	--	0
3.00	3.66	0.66	LST	FG	50% of the interval consist of competent, apparantly unaltered, black, highly calcareous calcite veined micrite. The remaining 50% consists of clayey brown, low competency material that may represent altered limestone.	MD	BR	RB	DCA	2I		
						DK	BK	MA	OXI	3I	--	0
3.66	146.91	143.25	DST	FG	Light grey, blocky, variably fractured dolostone. Primary lithology is bedded dolo micrite. A minority component of green, terrigenous intraformational mudstone is present. White dolomite veining is abundant resulting in various breccia textures and zebra banding throughout the interval. The upper portion of the interval is clayey and decarbonitized with arsenic oxide.	LT	GY	BD	ASO	1I	Sp	0.01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.00	3.00	0	0	0.00	0	--	--	--	
3.00	3.65	0.65	0.65	100	0.15	23	4R	1H	5W	
3.65	5.18	1.53	0.7	46	0.00	0	2R	1H	5W	
5.18	6.71	1.53	0.91	59	0.00	0	2R	1H	5W	
6.71	8.23	1.52	0.59	39	0.00	0	1R	1H	5W	
8.23	9.75	1.52	1.05	69	0.00	0	1R	1H	5W	
9.75	11.28	1.53	1.04	68	0.00	0	1R	1H	5W	
11.28	12.80	1.52	1.47	97	0.00	0	1R	1H	5W	
12.80	14.33	1.53	1.53	100	0.00	0	1R	2H	4W	
14.33	15.85	1.52	1.36	89	0.00	0	1R	1H	4W	
15.85	17.37	1.52	0.87	57	0.00	0	1R	1H	4W	
17.37	18.90	1.53	1.33	87	0.00	0	4R	2H	4W	
18.90	20.42	1.52	0.89	59	0.00	0	0R	1H	4W	
20.42	21.95	1.53	1.53	100	0.00	0	1R	2H	2W	
21.95	23.47	1.52	1.35	89	0.11	7	2R	2H	2W	
23.47	24.99	1.52	1.51	99	0.00	0	2R	2H	1W	
24.99	26.52	1.53	1.47	96	0.00	0	2R	2H	1W	
26.52	28.04	1.52	1.33	88	0.00	0	2R	3H	1W	
28.04	29.57	1.53	1.52	99	0.12	8	2R	3H	1W	
29.57	31.09	1.52	1.48	97	0.15	10	2R	2H	1W	
31.09	32.61	1.52	1.45	95	0.18	12	2R	1H	1W	
32.61	34.14	1.53	1.31	86	0.00	0	2R	2H	1W	
34.14	35.66	1.52	1.52	100	0.00	0	2R	3H	1W	
35.66	37.19	1.53	1.52	99	0.19	12	2R	3H	1W	
37.19	38.71	1.52	1.51	99	0.28	18	2R	3H	1W	
38.71	40.23	1.52	1.4	92	0.00	0	2R	3H	1W	
40.23	41.76	1.53	1.51	99	0.21	14	2R	3H	1W	
41.76	43.28	1.52	1.48	97	0.12	8	2R	2H	1W	
43.28	44.81	1.53	1.24	81	0.00	0	2R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.51	99	0.24	16	1R	3H	1W	
46.33	47.85	1.52	1.17	77	0.56	37	2R	3H	1W	
47.85	49.38	1.53	1.28	84	0.00	0	2R	3H	1W	
49.38	50.90	1.52	1.52	100	0.16	11	3R	2H	1W	
50.90	52.43	1.53	1.32	86	0.00	0	2R	2H	1W	
52.43	53.95	1.52	1.35	89	0.30	20	1R	2H	1W	
53.95	55.47	1.52	1.52	100	0.35	23	1R	1H	1W	
55.47	57.00	1.53	1.52	99	0.51	33	1R	2H	1W	
57.00	58.52	1.52	1.37	90	0.66	43	1R	3H	1W	
58.52	60.05	1.53	0.99	65	0.20	13	1R	2H	1W	
60.05	61.57	1.52	1.52	100	0.18	12	1R	2H	1W	
61.57	63.09	1.52	1.41	93	0.84	55	0R	2H	1W	
63.09	64.62	1.53	1.53	100	1.12	73	1R	2H	1W	
64.62	66.14	1.52	1.35	89	0.76	50	2R	2H	1W	
66.14	67.67	1.53	1.47	96	0.41	27	2R	2H	1W	
67.67	69.19	1.52	1.41	93	0.00	0	2R	2H	1W	
69.19	70.71	1.52	1.52	100	0.13	9	2R	2H	1W	
70.71	72.24	1.53	1.53	100	0.28	18	2R	2H	1W	
72.24	73.76	1.52	1.32	87	0.11	7	2R	3H	1W	
73.76	75.29	1.53	1.52	99	0.18	12	2R	3H	1W	
75.29	76.81	1.52	1.51	99	0.28	18	2R	3H	1W	
76.81	78.33	1.52	1.52	100	0.35	23	2R	3H	1W	
78.33	79.86	1.53	1.47	96	0.13	8	2R	3H	1W	
79.86	81.38	1.52	1.3	86	0.00	0	2R	4H	1W	
81.38	82.91	1.53	1.53	100	0.17	11	2R	4H	1W	
82.91	84.43	1.52	1.52	100	0.00	0	2R	2H	1W	
84.43	85.95	1.52	1.52	100	0.00	0	2R	4H	1W	
85.95	87.48	1.53	1.46	95	0.45	29	2R	4H	1W	
87.48	89.00	1.52	1.43	94	0.11	7	2R	4H	1W	
89.00	90.53	1.53	1.52	99	0.41	27	2R	4H	1W	
90.53	92.05	1.52	1.42	93	0.26	17	2R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
92.05	93.57	1.52	1.27	84	0.26	17	2R	4H	1W	
93.57	95.10	1.53	1.53	100	0.00	0	2R	4H	1W	
95.10	96.62	1.52	1.38	91	0.00	0	2R	4H	1W	
96.62	98.15	1.53	1.51	99	0.71	46	2R	4H	1W	
98.15	99.67	1.52	1.52	100	0.79	52	2R	4H	1W	
99.67	101.19	1.52	1.52	100	0.51	34	2R	4H	1W	
101.19	102.72	1.53	1.52	99	0.39	25	2R	4H	1W	
102.72	104.24	1.52	1.2	79	0.75	49	2R	4H	1W	
104.24	105.77	1.53	1.45	95	0.55	36	2R	4H	1W	
105.77	107.29	1.52	1.52	100	0.54	36	2R	4H	1W	
107.29	108.81	1.52	1.52	100	0.14	9	2R	4H	1W	
108.81	110.34	1.53	1.45	95	0.30	20	2R	4H	1W	
110.34	111.86	1.52	1.46	96	0.30	20	2R	4H	1W	
111.86	113.39	1.53	1.45	95	0.54	35	2R	4H	1W	
113.39	114.91	1.52	1.52	100	0.56	37	2R	4H	1W	
114.91	116.43	1.52	1.52	100	0.71	47	2R	4H	1W	
116.43	117.96	1.53	1.53	100	0.42	27	2R	2H	1W	
117.96	119.48	1.52	1.52	100	0.52	34	2R	2H	1W	
119.48	121.01	1.53	1.45	95	0.36	24	2R	2H	1W	
121.01	122.53	1.52	1.27	84	0.16	11	2R	2H	1W	
122.53	124.05	1.52	1.46	96	0.36	24	2R	2H	1W	
124.05	125.58	1.53	1.46	95	0.27	18	2R	2H	1W	
125.58	127.10	1.52	1.52	100	0.50	33	2R	2H	1W	
127.10	128.62	1.52	1.33	88	0.56	37	2R	2H	1W	
128.62	130.15	1.53	1.5	98	0.46	30	2R	2H	1W	
130.15	131.67	1.52	1.52	100	0.54	36	2R	2H	1W	
131.67	133.20	1.53	1.44	94	0.00	0	2R	2H	1W	
133.20	134.72	1.52	1.52	100	0.54	36	2R	2H	1W	
134.72	136.25	1.53	1.5	98	0.36	24	2R	2H	1W	
136.25	137.77	1.52	1.5	99	0.00	0	2R	2H	1W	
137.77	139.29	1.52	1.52	100	0.20	13	2R	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
139.29	140.82	1.53	1.52	99	0.50	33	2R	4H	1W	
140.82	142.34	1.52	1.52	100	0.50	33	2R	4H	1W	
142.34	143.87	1.53	1.53	100	0.55	36	2R	2H	1W	
143.87	145.39	1.52	1.52	100	0.70	46	2R	4H	1W	
145.39	146.91	1.52	1.45	95	0.90	59	2R	4H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M400077	12-390	A	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400080	12-390	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400092	12-390	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400096	12-390	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400263	12-392	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400269	12-392	A	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400062	12-381	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.00	3.66	0.66	OVB, LST	0.65	98	M400059	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	5.18	1.52	LST, DST	1.52	100	M400060	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	6.71	1.53	DST	1.53	100	M400061	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	9.55	2.84	DST	1.46	51	M400063	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.55	10.00	0.45	DST	0.45	100	M400064	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.00	11.28	1.28	DST	0.73	57	M400065	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	12.60	1.32	DST	0.96	73	M400066	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.60	13.60	1.00	DST	0.94	94	M400067	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.60	14.33	0.73	DST	0.73	100	M400068	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.60	14.33	0.73	DST	0.73	100	M400069	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.33	15.85	1.52	DST	1.36	89	M400070	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	17.37	1.52	DST	0.87	57	M400071	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	18.90	1.53	DST	1.33	87	M400072	12-381	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.90	20.42	1.52	DST	0.89	59	M400073	12-390	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	21.95	1.53	DST	1.53	100	M400074	12-390	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.95	24.99	3.04	DST	2.86	94	M400075	12-390	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.99	28.04	3.05	DST	2.80	92	M400076	12-390	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.04	31.09	3.05	DST	3.00	98	M400078	12-390	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.09	34.14	3.05	DST	2.76	90	M400079	12-390	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.14	37.19	3.05	DST	3.00	98	M400081	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
37.19	40.23	3.04	DST	2.01	66	M400082	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40.23	43.28	3.05	DST	2.99	98	M400083	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43.28	46.33	3.05	DST	2.75	90	M400084	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43.28	46.33	3.05	DST	2.75	90	M400085	12-390	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
46.33	49.38	3.05	DST	2.45	80	M400086	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.38	52.43	3.05	DST	2.84	93	M400087	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.43	53.68	1.25	DST	1.11	89	M400088	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53.68	55.47	1.79	DST	1.79	100	M400089	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	DST	2.89	95	M400090	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.52	61.57	3.05	DST	2.51	82	M400091	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.57	64.20	2.63	DST	2.63	100	M400093	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.20	66.14	1.94	DST	1.94	100	M400094	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	69.19	3.05	DST	2.88	94	M400095	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	72.24	3.05	DST	3.05	100	M400097	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	75.29	3.05	DST	2.84	93	M400098	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	75.29	3.05	DST	2.84	93	M400099	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
75.29	78.33	3.04	DST	3.03	100	M400100	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	81.38	3.05	DST	2.77	91	M400251	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	84.43	3.05	DST	3.05	100	M400252	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84.43	87.48	3.05	DST	2.98	98	M400253	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.48	90.53	3.05	DST	2.95	97	M400254	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	93.57	3.04	DST	2.69	88	M400255	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	DST	2.91	95	M400256	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96.62	99.67	3.05	DST	3.03	99	M400257	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	102.72	3.05	DST	3.04	100	M400258	12-390	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.72	105.77	3.05	DST	2.65	87	M400259	12-392	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.77	108.81	3.04	DST	3.04	100	M400260	12-392	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.81	111.86	3.05	DST	2.02	66	M400261	12-392	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
111.86	114.91	3.05	DST	2.97	97	M400262	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
114.91	117.96	3.05	DST	3.05	100	M400264	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
117.96	121.01	3.05	DST	2.97	97	M400265	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
121.01	124.05	3.04	DST	2.73	90	M400266	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.05	127.10	3.05	DST	2.98	98	M400267	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.10	130.15	3.05	DST	2.83	93	M400268	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130.15	133.20	3.05	DST	2.96	97	M400270	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
133.20	136.25	3.05	DST	3.02	99	M400271	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
136.25	139.29	3.04	DST	3.02	99	M400272	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
136.25	139.29	3.04	DST	3.02	99	M400273	12-392	A		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
139.29	142.34	3.05	DST	3.04	100	M400274	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
142.34	145.39	3.05	DST	3.05	100	M400275	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
145.39	146.91	1.52	DST	1.45	95	M400276	12-392	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		629086	7111683	1568.9	122.53

**ZONE:** Isis East

**SECTION:** IE12-K

**HOLE:** OS -12-096

**CLAIM:** Sten 39

**Contractor:** Superior

**Drill:** 2

**Core Size:** HQ

**Casing Depth:** 4.57m, Out

**Drilling Dates:** May 31 - Jun 02, 2012

**Geology Logged By:** W. Ferris

SURVEY			
Depth (m)	Azimuth	Dip	Method
15.84	43.52	-50.5	Reflex
122.53	44.82	-50.4	Reflex

**TARGET:** Mineralization on western limb of anticline

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.35	1.35	OVb
1.35	38.71	37.36	DST
38.71	48.98	10.27	LST
48.98	78.43	29.45	DST
78.43	94.34	15.91	LST
94.34	122.53	28.19	MST

SAMPLES	
Numbers:	K305931 to K305948, M666351 to M666374, N831014 to N831018
Total:	47
Batch:	017, 018, C01
Certificates:	WH12131150, WH12139370, WH12149948

COMMENTS
Hole ended because the Ping A mudstone was intersected

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.35	1.35	OVB	--	No recovery.							
								BD				
						--	--	CR	---	--	--	0
1.35	38.71	37.36	DST	FG	Crackle brecciated dolomudstone with relict bedding oriented 55 degrees TCA. Arsenic oxide and limonite occurs along fractures and in rubbly sections. Fine grained realgar occurs in white calcite veinlets.							
								BD	LIM	1I		
						MD	GY	CR	ASO	2I	Re	0.01
38.71	48.98	10.27	LST	VF	Bedded lime mudstone with bedding oriented 55 degrees TCA.							
						LT	GY	BD	---	--	--	0
48.98	78.43	29.45	DST	FG	Crackle brecciated dolomudstone with relict bedding oriented 55 degrees TCA.							
								CR				
						MD	GY	BD	ASO	1I	--	0
78.43	94.34	15.91	LST	VF	Bedded lime mudstone with bedding oriented 40 degrees TCA. An intraclast rudstone bed that is 8 cm thick occurs at 92.27 m. A bed with mottled texture 13 cm thick occurs at 89.68 m. Fine grained pyrite blebs 2-12 mm thick occur at 89.15 m.							
						LT	GY	BD	---	--	Py	0.01
94.34	122.53	28.19	MST	VF	Mudstone with green reduced bands and red oxidized bands.							
						DK	RD					
						MD	GN	BD	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.35	1.35	0	0	0.00	0	--	--	--	overburden
1.35	2.13	0.78	0.73	94	0.00	0	2R	2H	4W	rubble
2.13	3.66	1.53	1.05	69	0.10	7	2R	3H	4W	
3.66	5.18	1.52	1.33	88	0.58	38	2R	3H	3W	
5.18	6.71	1.53	1.42	93	0.16	10	2R	3H	4W	rubble after ~ 5.70 m
6.71	8.23	1.52	1.52	100	0.25	16	1R	4H	4W	
8.23	9.75	1.52	1.22	80	0.48	32	2R	4H	3W	
9.75	11.28	1.53	1.53	100	0.00	0	3R	4H	4W	
11.28	12.80	1.52	1.45	95	0.40	26	2R	3H	3W	
12.80	14.33	1.53	1.19	78	0.17	11	3R	3H	4W	
14.33	15.85	1.52	0.89	59	0.00	0	2R	3H	2W	
15.85	17.37	1.52	1.23	81	0.23	15	2R	2H	4W	
17.37	18.90	1.53	1.51	99	0.36	24	1R	3H	3W	
18.90	20.42	1.52	1.52	100	0.82	54	1R	4H	2W	
20.42	21.95	1.53	1.48	97	1.13	74	2R	4H	2W	
21.95	23.47	1.52	1.37	90	0.51	34	2R	4H	3W	
23.47	24.99	1.52	1.38	91	0.39	26	1R	4H	4W	
24.99	26.52	1.53	1.31	86	0.38	25	2R	2H	4W	
26.52	28.04	1.52	1.01	66	0.71	47	2R	3H	3W	
28.04	29.57	1.53	1.45	95	0.68	44	2R	3H	3W	
29.57	31.09	1.52	1.1	72	0.56	37	2R	4H	2W	
31.09	32.61	1.52	1.26	83	0.12	8	3R	3H	4W	
32.61	34.14	1.53	1.13	74	0.17	11	0R	--	5W	clay/sand
34.14	35.66	1.52	1.37	90	0.59	39	2R	3H	3W	
35.66	37.19	1.53	1.35	88	0.14	9	2R	3H	4W	
37.19	38.71	1.52	1.5	99	0.20	13	2R	4H	3W	
38.71	40.23	1.52	1.42	93	0.86	57	3R	4H	2W	
40.23	41.76	1.53	1.45	95	0.73	48	3R	3H	3W	
41.76	43.28	1.52	1.22	80	0.11	7	2R	3H	4W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
43.28	44.81	1.53	1.36	89	0.47	31	4R	3H	3W	breaks along veins
44.81	46.33	1.52	1.41	93	0.00	0	4R	3H	3W	
46.33	47.85	1.52	1.5	99	0.58	38	3R	3H	3W	
47.85	49.38	1.53	1.51	99	0.44	29	3R	2H	2W	
49.38	50.90	1.52	1.42	93	0.10	7	0R	2H	3W	
50.90	52.43	1.53	1.48	97	0.44	29	0R	3H	3W	
52.43	53.95	1.52	1.48	97	0.81	53	0R	4H	3W	calcite veins
53.95	55.47	1.52	1.11	73	0.49	32	1R	4H	3W	
55.47	57.00	1.53	1.42	93	0.83	54	0R	3H	4W	
57.00	58.52	1.52	1.45	95	0.76	50	0R	3H	4W	
58.52	60.05	1.53	1.49	97	0.34	22	0R	3H	4W	
60.05	61.57	1.52	1.34	88	0.40	26	1R	2H	3W	
61.57	63.09	1.52	1.52	100	1.08	71	2R	3H	3W	
63.09	64.62	1.53	1.25	82	0.93	61	0R	4H	2W	fractures change direction
64.62	66.14	1.52	1.52	100	1.42	93	1R	3H	2W	
66.14	67.67	1.53	1.52	99	1.25	82	0R	4H	3W	
67.67	69.19	1.52	1.13	74	0.68	45	1R	3H	4W	
69.19	70.71	1.52	1.49	98	0.87	57	1R	4H	3W	
70.71	72.24	1.53	1.52	99	0.95	62	2R	3H	2W	
72.24	73.76	1.52	1.46	96	0.84	55	2R	3H	2W	
73.76	75.29	1.53	1.42	93	0.81	53	2R	3H	3W	
75.29	76.81	1.52	1.26	83	0.45	30	3R	3H	3W	
76.81	78.33	1.52	1.43	94	0.00	0	2R	2H	3W	
78.33	79.86	1.53	1.43	93	0.93	61	4R	3H	2W	
79.86	81.38	1.52	1.46	96	0.90	59	4R	3H	1W	
81.38	82.91	1.53	1.52	99	0.75	49	4R	2H	1W	
82.91	84.43	1.52	1.52	100	1.22	80	4R	3H	1W	
84.43	85.95	1.52	1.4	92	0.90	59	4R	2H	1W	
85.95	87.48	1.53	1.53	100	1.48	97	4R	2H	1W	
87.48	89.00	1.52	1.52	100	1.15	76	4R	3H	1W	
89.00	90.53	1.53	1.53	100	1.34	88	4R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
90.53	92.05	1.52	1.39	91	0.70	46	4R	3H	1W	
92.05	93.57	1.52	1.38	91	1.16	76	4R	3H	1W	
93.57	95.10	1.53	1.53	100	1.39	91	3R	3H	1W	
95.10	96.62	1.52	1.52	100	1.23	81	0R	2H	1W	
96.62	98.15	1.53	1.36	89	0.85	56	0R	2H	2W	
98.15	99.67	1.52	1.42	93	1.00	66	0R	2H	2W	
99.67	101.19	1.52	1.42	93	1.09	72	0R	2H	1W	
101.19	102.72	1.53	1.53	100	1.33	87	0R	2H	2W	
102.72	104.24	1.52	1.39	91	1.15	76	0R	2H	1W	
104.24	105.77	1.53	1.53	100	1.23	80	0R	2H	1W	
105.77	107.29	1.52	1.43	94	0.93	61	0R	2H	1W	
107.29	108.81	1.52	1.52	100	1.52	100	0R	2H	2W	
108.81	110.34	1.53	1.44	94	1.06	69	0R	2H	1W	
110.34	111.86	1.52	1.52	100	1.31	86	0R	2H	2W	
111.86	113.39	1.53	1.4	92	1.06	69	0R	2H	2W	
113.39	114.91	1.52	1.42	93	1.02	67	0R	2H	2W	
114.91	116.43	1.52	1.52	100	1.13	74	0R	2H	1W	
116.43	117.96	1.53	1.53	100	1.45	95	0R	2H	2W	
117.96	119.48	1.52	1.39	91	1.26	83	0R	2H	2W	
119.48	121.01	1.53	1.5	98	1.12	73	0R	2H	2W	
121.01	122.53	1.52	1.5	99	1.39	91	0R	2H	2W	EOH

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K305942	12-018		15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666353	12-017			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666364	12-017		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666370	12-017		3G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K305938	12-018			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.35	3.66	2.31	DST, OVB	2.30	100	M666351	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	6.71	3.05	DST	2.75	90	M666352	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	9.75	3.04	DST	2.74	90	M666354	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.75	12.80	3.05	DST	2.98	98	M666355	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.80	15.85	3.05	DST	2.18	71	M666356	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	18.90	3.05	DST	2.79	91	M666357	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	18.90	3.05	DST	2.79	91	M666358	12-017			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18.90	21.95	3.05	DST	3.00	98	M666359	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.95	24.99	3.04	DST	2.75	90	M666360	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.99	28.04	3.05	DST	2.32	76	M666361	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.04	31.09	3.05	DST	2.55	84	M666362	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.09	34.14	3.05	DST	2.39	78	M666363	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.14	37.19	3.05	DST	2.72	89	M666365	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.19	38.71	1.52	DST	1.50	99	M666366	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.71	41.76	3.05	LST, DST	2.85	93	M666367	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41.76	44.81	3.05	LST	2.58	85	M666368	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.81	47.85	3.04	LST	1.91	63	M666369	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47.85	48.98	1.13	LST	1.07	95	M666371	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48.98	50.90	1.92	LST, DST	1.79	93	M666372	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.90	53.95	3.05	DST	2.98	98	M666373	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.95	57.00	3.05	DST	2.53	83	M666374	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
57.00	60.05	3.05	DST	2.94	96	K305931	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.05	63.09	3.04	DST	2.86	94	K305932	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	64.63	1.54	DST	1.25	81	K305933	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.63	66.60	1.97	DST	1.52	77	K305934	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.60	69.19	2.59	DST	2.59	100	K305935	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	72.24	3.05	DST	2.85	93	K305936	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	75.29	3.05	DST	2.78	91	K305937	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	76.81	1.52	DST	1.26	83	K305939	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
76.81	78.43	1.62	DST	1.53	94	K305940	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.43	81.38	2.95	DST, LST	2.79	95	K305941	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	84.43	3.05	LST	3.04	100	K305943	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84.43	87.48	3.05	LST	2.93	96	K305944	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.48	90.53	3.05	LST	3.05	100	K305945	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	92.05	1.52	LST	1.39	91	K305946	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	92.05	1.52	LST	1.39	91	K305947	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
92.05	94.34	2.29	LST	2.06	90	K305948	12-018		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
94.34	99.67	5.33	MST, LST	5.12	96	N831014	12-C01	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	105.77	6.10	MST	5.87	96	N831015	12-C01	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.77	111.86	6.09	MST	5.91	97	N831016	12-C01	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
111.86	117.96	6.10	MST	5.87	96	N831017	12-C01	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
117.96	122.53	4.57	MST	4.49	98	N831018	12-C01	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	





# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		629229	7111612	1595.28	133.77

**ZONE:** Isis East

**SECTION:** IE12-F

**HOLE:** OS -12-097

**CLAIM:** Sten 39

Contractor: Superior

Drill: 5

Core Size: HQ

Casing Depth: 4.57m, Out

Drilling Dates: Jun 04 - Jun 07, 2012

Geology Logged By: A. Graham

SURVEY			
Depth (m)	Azimuth	Dip	Method
2.43	7.42	-48.2	Reflex
130.45	0.92	-50.1	Reflex

**TARGET:** Mineralization on eastern limb of anticline

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.62	3.62	OVb
3.62	6.35	2.73	SLT
6.35	36.58	30.23	DST
36.58	127.8	91.22	LST
127.8	133.77	5.97	MST

SAMPLES	
Numbers:	K306451 to K306465, K306507 to K306511, M666501 to M666537, M666560 to M666561
Total:	59
Batch:	025, 030, 032, 034, 064
Certificates:	WH12128744, WH12139329, WH12144532, WH12147070, WH12157319

COMMENTS
Hole ended because it intersected the Ping A Maroon/Green mudstone

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.62	3.62	OVB	--	Overburden. No recovery	--	--	--	--	--	--	0
3.62	6.35	2.73	SLT	VF	Bedded siltstone	MD	GY	BD	---	--	--	0
6.35	36.58	30.23	DST	FG	Dolostone. Variable bedded with rubble sections	MD	GY	CR	---	--	--	0
36.58	127.80	91.22	LST	MG	Limestone with muddy/silty beds. Contains sections of high grade material							
									DCA	2I	Om	0.1
						MD	GY	BD	ASO	1I	Re	1
127.80	133.77	5.97	MST	FG	Ping A Mudstone							
						MD	PU	BD	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.96	3.96	0	0	0.00	0	--	--	--	overburden
3.96	5.49	1.53	0.88	58	0.11	7	1R	3H	2W	
5.49	7.01	1.52	1.09	72	0.56	37	1R	3H	2W	
7.01	8.53	1.52	1.26	83	0.83	55	1R	4H	1W	
8.53	10.06	1.53	1.37	90	0.56	37	2R	3H	2W	
10.06	11.58	1.52	1.35	89	0.94	62	2R	4H	2W	
11.58	13.11	1.53	0.96	63	0.30	20	2R	3H	2W	
13.11	14.63	1.52	1.43	94	0.60	39	1R	4H	3W	
14.63	16.15	1.52	0.82	54	0.38	25	2R	4H	3W	
16.15	17.68	1.53	1.16	76	0.59	39	2R	4H	3W	
17.68	19.20	1.52	1.17	77	0.30	20	2R	4H	3W	
19.20	20.73	1.53	0.94	61	0.46	30	2R	4H	3W	
20.73	22.25	1.52	0.96	63	0.12	8	2R	4H	3W	
22.25	23.77	1.52	1.19	78	0.50	33	0R	3H	3W	
23.77	25.30	1.53	1.43	93	0.89	58	0R	3H	2W	
25.30	26.82	1.52	1.2	79	0.37	24	0R	4H	2W	
26.82	28.35	1.53	1.44	94	0.72	47	3R	4H	2W	
28.35	29.87	1.52	1.31	86	0.58	38	1R	4H	2W	
29.87	31.39	1.52	1.23	81	0.75	49	2R	4H	2W	
31.39	32.92	1.53	0.98	64	0.23	15	2R	3H	3W	
32.92	34.44	1.52	1.42	93	0.86	57	2R	3H	2W	
34.44	35.97	1.53	1.34	88	0.48	31	3R	3H	1W	
35.97	37.49	1.52	1.37	90	0.88	58	3R	4H	1W	
37.49	39.01	1.52	1.28	84	0.74	49	3R	4H	2W	
39.01	40.54	1.53	1.08	71	0.25	16	4R	4H	2W	
40.54	42.06	1.52	0.87	57	0.00	0	4R	4H	2W	
42.06	43.59	1.53	0.79	52	0.00	0	2R	3H	2W	
43.59	45.11	1.52	1.15	76	0.13	9	3R	4H	1W	
45.11	46.63	1.52	0.71	47	0.00	0	3R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
46.63	48.15	1.52	1.24	82	0.20	13	0R	2H	1W	
48.15	49.68	1.53	1.4	92	0.17	11	3R	4H	1W	
49.68	51.21	1.53	1.45	95	0.25	16	3R	4H	1W	
51.21	52.73	1.52	1.36	89	0.56	37	0R	3H	1W	
52.73	54.25	1.52	1.29	85	0.93	61	0R	3H	1W	
54.25	55.78	1.53	1.37	90	0.49	32	4R	4H	2W	
55.78	57.30	1.52	1.52	100	0.82	54	4R	3H	1W	
57.30	58.83	1.53	1.1	72	0.61	40	4R	3H	1W	
58.83	60.35	1.52	1.39	91	0.95	63	4R	3H	1W	
60.35	61.87	1.52	1.52	100	1.07	70	4R	3H	1W	
61.87	63.40	1.53	1.45	95	0.51	33	4R	3H	1W	
63.40	64.92	1.52	1.52	100	0.42	28	4R	4H	2W	
64.92	66.44	1.52	1.4	92	0.12	8	4R	4H	2W	
66.44	67.97	1.53	1.53	100	0.52	34	4R	4H	2W	
67.97	69.49	1.52	1.36	89	0.50	33	4R	4H	2W	
69.49	71.02	1.53	1.53	100	0.39	25	4R	4H	2W	
71.02	72.54	1.52	1.47	97	0.37	24	4R	4H	2W	
72.54	74.07	1.53	1.51	99	0.61	40	3R	3H	1W	
74.07	75.59	1.52	1.3	86	0.58	38	3R	3H	1W	
75.59	77.11	1.52	1.52	100	0.58	38	3R	3H	2W	
77.11	78.64	1.53	1.53	100	0.21	14	4R	3H	2W	
78.64	80.16	1.52	1.52	100	1.10	72	0R	3H	2W	
80.16	81.69	1.53	1.53	100	0.31	20	4R	3H	2W	
81.69	83.21	1.52	1.52	100	0.00	0	4R	3H	2W	
83.21	84.73	1.52	1.24	82	0.27	18	4R	3H	2W	
84.73	86.26	1.53	1.34	88	0.56	37	4R	3H	2W	
86.26	87.78	1.52	1.43	94	0.57	38	4R	4H	2W	
87.78	89.31	1.53	1.53	100	0.54	35	4R	3H	2W	
89.31	90.83	1.52	1.37	90	0.46	30	4R	3H	2W	
90.83	92.35	1.52	1.22	80	0.18	12	4R	3H	3W	
92.35	93.88	1.53	1.26	82	0.00	0	4R	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
93.88	95.40	1.52	1.52	100	0.13	9	4R	3H	3W	
95.40	96.93	1.53	1.23	80	0.11	7	4R	3H	3W	
96.93	98.45	1.52	1.52	100	0.24	16	4R	3H	3W	
98.45	99.97	1.52	1.47	97	0.69	45	4R	3H	2W	
99.97	101.50	1.53	1.52	99	1.52	99	4R	3H	2W	
101.50	103.02	1.52	1.4	92	1.08	71	4R	3H	2W	
103.02	104.55	1.53	1.47	96	1.12	73	4R	3H	2W	
104.55	106.07	1.52	1.52	100	1.40	92	4R	3H	2W	
106.07	107.59	1.52	1.52	100	1.22	80	4R	3H	2W	
107.59	109.12	1.53	1.23	80	0.72	47	4R	3H	2W	
109.12	110.64	1.52	1.46	96	1.20	79	4R	3H	2W	
110.64	112.17	1.53	1.43	93	1.45	95	4R	3H	2W	
112.17	113.69	1.52	1.52	100	1.16	76	4R	3H	2W	
113.69	115.21	1.52	1.43	94	0.96	63	4R	4H	2W	
115.21	116.74	1.53	1.48	97	1.46	95	4R	3H	2W	
116.74	118.26	1.52	1.5	99	0.84	55	4R	3H	2W	
118.26	119.79	1.53	1.52	99	0.75	49	4R	3H	3W	
119.79	121.31	1.52	1.26	83	0.24	16	4R	3H	2W	
121.31	122.83	1.52	1.4	92	0.99	65	4R	3H	2W	
122.83	124.35	1.52	1.35	89	0.51	34	4R	3H	2W	
124.35	125.88	1.53	1.45	95	0.91	59	4R	3H	2W	
125.88	127.41	1.53	1.52	99	1.22	80	0R	3H	2W	
127.41	128.93	1.52	1.4	92	0.85	56	0R	2H	2W	
128.93	130.45	1.52	1.52	100	0.97	64	0R	2H	2W	
130.45	131.98	1.53	1.47	96	0.77	50	0R	2H	2W	
131.98	133.50	1.52	0.87	57	0.14	9	0R	2H	2W	
133.50	133.77	0.27	0.26	96	0.23	85	0R	2H	2W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M666507	12-025	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666510	12-025	B	P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666530	12-025	B	P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666533	12-025	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306458	12-030	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.62	6.35	2.73	SLT, OVB	2.73	100	M666501	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.35	8.53	2.18	SLT, DST	1.89	87	M666502	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.53	11.58	3.05	DST	2.72	89	M666503	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.58	14.63	3.05	DST	2.39	78	M666504	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.63	16.94	2.31	DST	1.60	69	M666505	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.94	19.68	2.74	DST	2.37	86	M666506	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.68	22.42	2.74	DST	2.19	80	M666508	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.42	25.30	2.88	DST	2.77	96	M666509	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.30	28.35	3.05	DST	2.64	87	M666511	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.35	31.39	3.04	DST	2.54	84	M666512	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.39	34.44	3.05	DST	2.40	79	K306451	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.44	36.58	2.14	DST	2.12	99	K306452	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.58	39.01	2.43	LST, DST	2.12	87	K306453	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.01	40.54	1.53	LST	1.08	71	K306454	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.54	42.06	1.52	LST	0.87	57	K306455	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42.06	43.59	1.53	LST	0.79	52	K306456	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43.59	45.11	1.52	LST	1.15	76	K306457	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45.11	46.63	1.52	LST	0.71	47	K306459	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46.63	48.15	1.52	LST	1.24	82	K306460	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48.15	49.68	1.53	LST	1.40	92	K306461	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49.68	51.21	1.53	LST	1.45	95	K306462	12-030	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51.21	52.73	1.52	LST	1.36	89	K306463	12-030	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.73	54.25	1.52	LST	1.29	85	K306464	12-030	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
54.25	55.78	1.53	LST	1.37	90	K306465	12-030	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.78	58.83	3.05	LST	2.62	86	K306507	12-032	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.83	61.87	3.04	LST	2.91	96	K306508	12-032	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.87	64.92	3.05	LST	2.97	97	K306509	12-032	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.92	67.97	3.05	LST	2.93	96	K306510	12-032	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64.92	67.97	3.05	LST	2.93	96	K306511	12-032	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
67.97	71.02	3.05	LST	2.89	95	M666513	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
71.02	74.07	3.05	LST	2.98	98	M666514	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
74.07	77.11	3.04	LST	2.82	93	M666515	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
77.11	80.16	3.05	LST	3.05	100	M666516	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
77.11	80.16	3.05	LST	3.05	100	M666517	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
80.16	83.21	3.05	LST	3.05	100	M666518	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
83.21	86.26	3.05	LST	2.58	85	M666519	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
86.26	89.31	3.05	LST	2.96	97	M666520	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
89.31	92.35	3.04	LST	2.59	85	M666521	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
92.35	95.40	3.05	LST	2.78	91	M666522	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
95.40	98.45	3.05	LST	2.76	90	M666523	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
98.45	101.50	3.05	LST	2.99	98	M666524	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
98.45	101.50	3.05	LST	2.99	98	M666525	12-025	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
101.50	104.55	3.05	LST	2.87	94	M666526	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
104.55	107.59	3.04	LST	3.04	100	M666527	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
107.59	110.64	3.05	LST	2.69	88	M666528	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
110.64	113.69	3.05	LST	2.95	97	M666529	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
113.69	116.74	3.05	LST	2.91	95	M666531	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
116.74	119.79	3.05	LST	3.02	99	M666532	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
119.79	122.83	3.04	LST	2.66	88	M666534	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.83	125.88	3.05	LST	2.80	92	M666535	12-025	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
125.88	127.80	1.92	LST	1.92	100	M666536	12-025	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.80	130.45	2.65	LST, MST	2.56	97	M666537	12-064	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130.45	131.98	1.53	MST	1.47	96	M666560	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
131.98	133.77	1.79	MST	1.13	63	M666561	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		629025	7111626	1536.87	441.05

**ZONE:** Isis East

**SECTION:** IE12-K

**HOLE:** OS -12-099

**CLAIM:** Sten 39

Contractor: Superior

Drill: 2

Core Size: HQ-NQ

Casing Depth: 6.1m, Out

Drilling Dates: Jun 03 - Jun 09, 2012

Geology Logged By: W. Ferris

SURVEY			
Depth (m)	Azimuth	Dip	Method
20.42	41.82	-70.6	Reflex
441.04	50.42	-69	Reflex

**TARGET:** Mineralization on western limb of anticline

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.7	1.7	OVB
1.7	61.33	59.63	LST
61.33	83.52	22.19	SLT
83.52	110.55	27.03	DMT
110.55	127.48	16.93	SLT
127.48	222.26	94.78	DST
222.26	249.26	27	LST
249.26	262.44	13.18	DST
262.44	275.65	13.21	LST
275.65	396.35	120.7	DST
396.35	441.05	44.7	LST

SAMPLES	
Numbers:	K306429 to K306450, K306626 to K306640, K306658 to K306664, M666375 to M666400, M666701 to M666751, M666901 to M666922,
Total:	193
Batch:	017, 027, 028, 029, 031, 037, 039, 040, 042
Certificates:	WH12133930, WH12133931, WH12134650, WH12138339, WH12139370, WH12140451, WH12144261, WH12145884, WH12148782

COMMENTS
Hole ended because mineralized zone was surpassed.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.70	1.70	OVB	--	No recovery.	--	--	--	--	--	--	0
1.70	61.33	59.63	LST	VF	Lime mudstone interbedded with packstone, diamictite, siltstone, and rudstone.	MD	GY	BD	LIM	2I	--	0
61.33	83.52	22.19	SLT	VF	Interbedded siltstone (70%) and diamictite (30%). The siltstone is bedded 35-45 degrees TCA.	MD	GN	BD	---	--	--	0
83.52	110.55	27.03	DMT	VC	Diamictite consisting of 80% dark grey mud matrix and 20% light grey clasts.	DK	GY	MA	---	--	--	0
110.55	127.48	16.93	SLT	VF	Pyritic bedded siltstone oriented 35-45 degrees TCA. Pyrite occurs disseminated in some beds or as blebby beds of granular pyrite.	MD	GN	BD	---	--	Py	1
127.48	222.26	94.78	DST	VF	Dominantly dolomudstone with bedding gradually decreasing from 60-10 degrees TCA.			CR	SIL	1I		
								RD	DCA	1I	Re	0.01
						MD	GY	BD	ASO	1I	Py	0.01
222.26	249.26	27.00	LST	VF	Lime mudstone bedded 25-35 degrees TCA. Bedding is 90% planar with 10% undulating and blebby beds.	LT	GY	BD	---	--	--	0
249.26	262.44	13.18	DST	VF	Dolomudstone with relict bedding 25-30 degrees TCA.							
						MD	GY	BD	---	--	Re	0.01
262.44	275.65	13.21	LST	VF	Lime mudstone (70%) bedded 20 degrees TCA, interbedded with intraclast rudstone (30%).			RD				
						MD	GY	BD	---	--	--	0
275.65	396.35	120.70	DST	VF	Crackle brecciated dolomudstone interbedded with occasional dolorudstone.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								CR			Om	0.01
						MD	GY	BD	---	--	Re	0.01
396.35	441.05	44.70	LST	VF	Lime mudstone with planar bedding oriented 30-35 degrees TCA. Calcite veinlets are very sparse.							
						MD	GY	BD	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.70	1.70	0	0	0.00	0	--	--	--	Overburden
1.70	5.18	3.48	3.48	100	2.52	72	4R	3H	4W	
5.18	6.71	1.53	1.49	97	0.69	45	3R	3H	3W	
6.71	8.23	1.52	1.31	86	0.11	7	4R	2H	4W	
8.23	9.75	1.52	0.97	64	0.21	14	3R	2H	5W	
9.75	11.28	1.53	1.19	78	0.41	27	4R	3H	5W	
11.28	12.80	1.52	1.5	99	0.23	15	4R	2H	5W	
12.80	14.33	1.53	1.28	84	0.34	22	4R	2H	4W	
14.33	15.85	1.52	1.29	85	0.44	29	4R	2H	4W	
15.85	17.37	1.52	1.23	81	0.49	32	4R	3H	3W	
17.37	18.90	1.53	1.48	97	0.72	47	4R	2H	3W	breaks along veins
18.90	20.42	1.52	1.43	94	0.10	7	4R	2H	3W	
20.42	21.95	1.53	1.32	86	0.55	36	4R	2H	2W	
21.95	23.47	1.52	1.36	89	0.18	12	4R	3H	3W	
23.47	25.00	1.53	1.43	93	0.68	44	4R	3H	3W	
25.00	26.52	1.52	1.19	78	0.11	7	4R	2H	4W	
26.52	28.04	1.52	1.52	100	0.35	23	4R	2H	3W	
28.04	29.57	1.53	1.04	68	0.17	11	3R	3H	4W	
29.57	31.09	1.52	1.49	98	0.52	34	4R	2H	4W	
31.09	32.61	1.52	1.4	92	0.52	34	0R	3H	3W	
32.61	34.14	1.53	1.14	75	0.58	38	0R	3H	3W	
34.14	35.66	1.52	1.36	89	0.40	26	0R	3H	3W	
35.66	37.19	1.53	1.33	87	0.49	32	0R	2H	2W	
37.19	38.71	1.52	1.5	99	0.45	30	0R	2H	2W	
38.71	40.23	1.52	1.36	89	0.65	43	4R	3H	3W	
40.23	41.76	1.53	1.41	92	0.52	34	0R	3H	3W	
41.76	43.28	1.52	1.33	88	0.68	45	0R	3H	3W	
43.28	44.81	1.53	1.46	95	0.72	47	3R	3H	2W	
44.81	46.33	1.52	1.38	91	1.08	71	3R	4H	3W	high pitched noise when struck

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
46.33	47.85	1.52	1.49	98	0.98	64	3R	4H	2W	
47.85	49.38	1.53	1.29	84	0.95	62	4R	3H	2W	
49.38	50.90	1.52	1.48	97	1.07	70	4R	4H	2W	
50.90	52.43	1.53	1.32	86	1.15	75	4R	4H	2W	
52.43	53.95	1.52	1.49	98	1.37	90	4R	4H	1W	
53.95	55.47	1.52	1.27	84	1.19	78	4R	3H	2W	
55.47	57.00	1.53	1.24	81	0.92	60	4R	3H	1W	
57.00	58.52	1.52	1.34	88	0.74	49	4R	3H	2W	
58.52	60.05	1.53	1.48	97	1.10	72	4R	3H	2W	
60.05	61.57	1.52	1.28	84	0.55	36	0R	3H	2W	
61.57	63.09	1.52	1.37	90	0.85	56	0R	2H	3W	
63.09	64.62	1.53	1.41	92	0.97	63	0R	2H	3W	
64.62	66.14	1.52	1.23	81	0.68	45	0R	2H	2W	shattered when struck twice
66.14	67.67	1.53	1.33	87	0.57	37	0R	2H	2W	
67.67	69.19	1.52	1.39	91	0.82	54	0R	2H	2W	
69.19	70.71	1.52	1.36	89	0.76	50	0R	3H	2W	
70.71	72.24	1.53	1.52	99	1.23	80	0R	4H	2W	
72.24	73.77	1.53	1.24	81	1.07	70	0R	3H	2W	
73.77	75.29	1.52	1.47	97	0.91	60	1R	3H	2W	
75.29	76.81	1.52	1.42	93	1.31	86	0R	3H	1W	
76.81	78.33	1.52	1.46	96	1.17	77	0R	3H	1W	
78.33	79.86	1.53	1.44	94	1.24	81	0R	3H	1W	
79.86	81.38	1.52	1.51	99	1.50	99	0R	4H	1W	
81.38	82.91	1.53	1.41	92	1.28	84	0R	3H	2W	oxidized joint
82.91	84.43	1.52	1.34	88	0.75	49	0R	4H	3W	highly reactive clasts
84.43	85.95	1.52	1.47	97	1.19	78	0R	4H	2W	
85.95	87.48	1.53	1.49	97	1.05	69	0R	4H	2W	
87.48	89.00	1.52	1.33	88	1.24	82	4R	4H	2W	
89.00	90.53	1.53	1.48	97	1.17	76	1R	4H	2W	
90.53	92.05	1.52	1.45	95	0.79	52	4R	4H	2W	
92.05	93.57	1.52	1.46	96	1.27	84	4R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
93.57	95.10	1.53	1.42	93	1.37	90	4R	4H	1W	
95.10	96.62	1.52	1.51	99	1.05	69	4R	4H	2W	
96.62	98.15	1.53	1.43	93	1.25	82	4R	4H	1W	
98.15	99.67	1.52	1.52	100	1.34	88	4R	4H	1W	
99.67	101.19	1.52	1.48	97	1.29	85	4R	4H	1W	
101.19	102.72	1.53	1.53	100	1.30	85	4R	4H	1W	
102.72	104.24	1.52	1.42	93	1.37	90	4R	4H	1W	
104.24	105.77	1.53	1.53	100	1.52	99	4R	4H	1W	
105.77	107.29	1.52	1.52	100	1.37	90	4R	4H	2W	
107.29	108.81	1.52	1.51	99	1.23	81	0R	4H	3W	
108.81	110.34	1.53	1.36	89	1.32	86	3R	4H	1W	
110.34	111.86	1.52	1.45	95	0.92	61	1R	3H	1W	
111.86	113.39	1.53	1.4	92	0.74	48	0R	2H	1W	
113.39	114.91	1.52	1.5	99	0.57	38	0R	2H	1W	
114.91	116.43	1.52	1.26	83	0.29	19	0R	2H	1W	
116.43	117.96	1.53	1.53	100	0.89	58	0R	2H	2W	
117.96	119.48	1.52	1.5	99	1.05	69	0R	2H	1W	
119.48	121.01	1.53	1.47	96	0.66	43	0R	2H	1W	
121.01	122.53	1.52	1.26	83	0.44	29	0R	2H	1W	
122.53	124.05	1.52	1.12	74	0.00	0	0R	2H	1W	
124.05	125.58	1.53	1.38	90	0.50	33	0R	2H	1W	
125.58	127.10	1.52	1.44	95	0.49	32	0R	2H	1W	
127.10	128.63	1.53	1.53	100	1.14	75	1R	4H	1W	
128.63	130.15	1.52	1.52	100	1.29	85	1R	4H	1W	
130.15	131.67	1.52	1.52	100	1.38	91	1R	4H	1W	
131.67	133.20	1.53	1.48	97	0.50	33	1R	4H	1W	
133.20	134.72	1.52	1.52	100	0.91	60	2R	4H	1W	
134.72	136.25	1.53	1.47	96	0.90	59	2R	4H	1W	
136.25	137.77	1.52	1.52	100	0.88	58	2R	4H	1W	
137.77	139.29	1.52	1.52	100	0.86	57	1R	4H	1W	
139.29	140.82	1.53	1.49	97	0.83	54	1R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
140.82	142.34	1.52	1.3	86	0.62	41	1R	4H	1W	
142.34	145.39	3.05	2.52	83	1.06	35	2R	4H	1W	Reduced to NQ
145.39	148.44	3.05	3	98	1.55	51	2R	4H	1W	
148.44	151.49	3.05	3.05	100	2.58	85	2R	4H	1W	
151.49	154.53	3.04	2.82	93	1.65	54	1R	4H	1W	
154.53	157.58	3.05	2.49	82	0.92	30	1R	1H	1W	
157.58	160.63	3.05	3.02	99	0.13	4	2R	4H	1W	
160.63	163.68	3.05	3.01	99	1.37	45	2R	4H	2W	
163.68	166.73	3.05	2.93	96	1.28	42	2R	4H	1W	
166.73	169.77	3.04	3.04	100	2.56	84	2R	4H	2W	
169.77	172.82	3.05	3.03	99	2.32	76	2R	4H	1W	
172.82	175.87	3.05	3.04	100	2.62	86	2R	4H	1W	
175.87	178.92	3.05	3	98	2.03	67	2R	4H	1W	
178.92	181.97	3.05	3.05	100	2.35	77	2R	4H	1W	
181.97	185.01	3.04	3.04	100	2.15	71	2R	4H	1W	
185.01	188.06	3.05	3	98	2.62	86	2R	4H	1W	
188.06	191.11	3.05	2.19	72	1.74	57	2R	4H	1W	
191.11	194.16	3.05	3.02	99	1.48	49	2R	4H	1W	
194.16	197.21	3.05	3.05	100	1.94	64	2R	4H	1W	
197.21	200.25	3.04	3.04	100	2.42	80	2R	4H	1W	
200.25	203.30	3.05	2.86	94	1.37	45	2R	4H	2W	
203.30	206.35	3.05	2.96	97	2.41	79	2R	4H	1W	
206.35	209.40	3.05	2.95	97	1.62	53	2R	4H	2W	
209.40	212.45	3.05	3.05	100	2.45	80	2R	4H	1W	
212.45	215.49	3.04	3.01	99	2.32	76	2R	4H	1W	
215.49	218.54	3.05	2.9	95	2.19	72	2R	4H	1W	
218.54	221.59	3.05	3.05	100	2.52	83	2R	4H	1W	
221.59	224.64	3.05	3.05	100	2.68	88	4R	3H	1W	
224.64	227.69	3.05	2.95	97	2.31	76	4R	3H	1W	
227.69	230.73	3.04	2.84	93	2.25	74	4R	3H	1W	
230.73	233.78	3.05	3.03	99	2.74	90	3R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
233.78	236.83	3.05	2.83	93	2.58	85	2R	4H	1W	
236.83	239.88	3.05	2.94	96	1.99	65	4R	3H	1W	
239.88	242.93	3.05	3.03	99	1.95	64	4R	3H	1W	
242.93	245.97	3.04	2.78	91	0.93	31	4R	3H	1W	
245.97	249.02	3.05	2.87	94	2.44	80	4R	3H	1W	
249.02	252.07	3.05	3.05	100	2.23	73	2R	4H	1W	
252.07	255.12	3.05	2.9	95	2.32	76	2R	4H	1W	
255.12	258.17	3.05	2.88	94	0.90	30	4R	3H	1W	
258.17	261.21	3.04	3	99	1.88	62	3R	3H	1W	
261.21	264.26	3.05	2.84	93	2.37	78	4R	3H	1W	
264.26	267.31	3.05	3.05	100	1.92	63	4R	3H	1W	
267.31	270.36	3.05	1.75	57	0.67	22	4R	3H	3W	
270.36	273.41	3.05	2.85	93	2.24	73	4R	3H	1W	
273.41	276.45	3.04	2.98	98	2.19	72	4R	3H	2W	
276.45	279.50	3.05	2.99	98	2.02	66	2R	4H	2W	
279.50	282.55	3.05	2.73	90	1.28	42	2R	4H	2W	
282.55	285.60	3.05	3.02	99	2.57	84	2R	4H	1W	
285.60	288.65	3.05	2.9	95	1.69	55	2R	4H	2W	
288.65	291.69	3.04	2.97	98	1.45	48	2R	4H	2W	
291.69	294.74	3.05	2.89	95	2.00	66	2R	4H	1W	
294.74	297.79	3.05	2.9	95	2.55	84	2R	4H	1W	
297.79	300.84	3.05	3	98	2.35	77	2R	4H	1W	
300.84	303.89	3.05	3.03	99	2.44	80	2R	4H	1W	
303.89	306.93	3.04	2.92	96	2.30	76	3R	3H	1W	
306.93	309.98	3.05	2.96	97	2.29	75	3R	4H	1W	
309.98	313.03	3.05	3.03	99	2.50	82	3R	4H	1W	
313.03	316.08	3.05	2.98	98	1.57	51	3R	4H	2W	
316.08	319.13	3.05	2.93	96	0.92	30	2R	4H	2W	
319.13	322.17	3.04	2.89	95	2.06	68	2R	4H	1W	
322.17	325.22	3.05	2.97	97	2.74	90	2R	4H	1W	
325.22	328.27	3.05	2.94	96	2.20	72	2R	4H	1W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
328.27	331.32	3.05	2.95	97	2.00	66	2R	4H	1W	
331.32	334.37	3.05	2.96	97	1.87	61	2R	4H	1W	
334.37	337.41	3.04	3.01	99	2.24	74	2R	4H	1W	
337.41	340.46	3.05	2.85	93	2.40	79	2R	4H	1W	
340.46	343.51	3.05	2.93	96	1.38	45	2R	4H	1W	
343.51	346.56	3.05	2.84	93	0.94	31	2R	4H	2W	
346.56	349.61	3.05	2.96	97	1.08	35	2R	4H	2W	
349.61	352.65	3.04	2.78	91	0.70	23	2R	4H	2W	
352.65	355.70	3.05	2.95	97	1.04	34	2R	4H	2W	
355.70	358.75	3.05	2.89	95	0.30	10	2R	4H	3W	
358.75	361.80	3.05	2.72	89	1.29	42	2R	4H	3W	
361.80	364.85	3.05	3.02	99	2.32	76	2R	4H	2W	
364.85	367.89	3.04	2.83	93	1.89	62	2R	4H	2W	
367.89	370.94	3.05	3	98	1.74	57	2R	4H	2W	
370.94	373.99	3.05	2.6	85	0.75	25	2R	4H	2W	
373.99	377.04	3.05	2.88	94	1.32	43	2R	4H	2W	
377.04	380.09	3.05	3.05	100	2.47	81	2R	4H	1W	
380.09	383.13	3.04	2.92	96	1.80	59	2R	4H	1W	
383.13	386.18	3.05	3.05	100	2.39	78	2R	4H	1W	
386.18	389.23	3.05	3.05	100	2.07	68	2R	4H	1W	
389.23	392.28	3.05	3.05	100	2.17	71	2R	3H	1W	
392.28	395.33	3.05	3.01	99	2.57	84	2R	4H	1W	
395.33	398.37	3.04	3.04	100	1.90	63	4R	4H	1W	Contact: DST->LST
398.37	401.42	3.05	3	98	2.60	85	4R	4H	1W	
401.42	404.47	3.05	3.03	99	2.56	84	4R	4H	1W	
404.47	407.52	3.05	3.03	99	3.01	99	4R	4H	1W	
407.52	410.57	3.05	3	98	2.80	92	4R	4H	1W	
410.57	413.61	3.04	3.04	100	2.22	73	4R	4H	1W	
413.61	416.66	3.05	3.05	100	2.79	91	4R	3H	1W	
416.66	419.71	3.05	3.05	100	2.88	94	4R	3H	1W	
419.71	422.76	3.05	3.03	99	2.92	96	4R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
422.76	425.81	3.05	3.05	100	2.87	94	4R	3H	1W	
425.81	428.85	3.04	3.03	100	2.93	96	4R	3H	1W	
428.85	431.90	3.05	3.02	99	2.65	87	4R	3H	1W	
431.90	434.95	3.05	3.05	100	2.02	66	4R	3H	1W	
434.95	438.00	3.05	2.87	94	2.80	92	4R	3H	1W	
438.00	441.05	3.05	3.02	99	2.59	85	4R	3H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M666721	12-027		P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666985	12-039			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666980	12-039		P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666969	12-039			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666963	12-039		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666954	12-028		P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666919	12-042			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666914	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666906	12-042		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666747	12-028			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306432	12-029			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666728	12-028			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667000	12-042			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666712	12-027			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666396	12-027		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666390	12-027			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666381	12-017			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306663	12-040		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306661	12-040			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306634	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306633	12-037			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306440	12-031			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306437	12-031		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666737	12-028		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.70	4.00	2.30	LST, OVB	1.34	58	M666375	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.70	4.00	2.30	LST, OVB	1.34	58	M666376	12-017			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.00	5.18	1.18	LST	0.90	76	M666377	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.18	8.23	3.05	LST	2.80	92	M666378	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.23	11.28	3.05	LST	2.16	71	M666379	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11.28	14.33	3.05	LST	2.78	91	M666380	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14.33	17.37	3.04	LST	2.52	83	M666382	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17.37	20.42	3.05	LST	2.91	95	M666383	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20.42	23.47	3.05	LST	2.68	88	M666384	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23.47	26.52	3.05	LST	2.62	86	M666385	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26.52	29.57	3.05	LST	2.56	84	M666386	12-017		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29.57	32.61	3.04	LST	2.89	95	M666387	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32.61	35.66	3.05	LST	2.50	82	M666388	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35.66	38.71	3.05	LST	2.83	93	M666389	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
38.71	40.41	1.70	LST	1.39	82	M666391	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40.41	43.28	2.87	LST	2.87	100	M666392	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43.28	46.33	3.05	LST	2.84	93	M666393	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46.33	49.38	3.05	LST	2.78	91	M666394	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.38	52.43	3.05	LST	2.80	92	M666395	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.43	55.47	3.04	LST	2.76	91	M666397	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	LST	2.58	85	M666398	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	LST	2.58	85	M666399	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
58.52	61.33	2.81	LST	2.48	88	M666400	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
61.33	63.09	1.76	LST, SLT	1.65	94	M666701	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	66.14	3.05	SLT	2.64	87	M666702	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	69.19	3.05	SLT	2.72	89	M666703	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	72.24	3.05	SLT	2.88	94	M666704	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	75.29	3.05	SLT	2.71	89	M666705	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	78.33	3.04	SLT	2.88	95	M666706	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	81.38	3.05	SLT	2.95	97	M666707	12-027		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
78.33	81.38	3.05	SLT	2.95	97	M666708	12-027			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
81.38	83.52	2.14	SLT	2.00	93	M666709	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83.52	85.95	2.43	SLT, DMT	2.34	96	M666710	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.95	89.00	3.05	DMT	2.82	92	M666711	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89.00	92.05	3.05	DMT	2.93	96	M666713	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92.05	95.10	3.05	DMT	2.88	94	M666714	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95.10	98.15	3.05	DMT	2.94	96	M666715	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98.15	101.19	3.04	DMT	3.02	99	M666716	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101.19	104.24	3.05	DMT	2.95	97	M666717	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
104.24	107.29	3.05	DMT	3.05	100	M666718	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
107.29	108.81	1.52	DMT	1.51	99	M666719	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
108.81	110.55	1.74	DMT	1.63	94	M666720	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
110.55	113.39	2.84	DMT, SLT	2.75	97	M666722	12-027			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
113.39	116.43	3.04	SLT	2.76	91	M666751	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
116.43	119.48	3.05	SLT	3.03	99	M666723	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
119.48	122.53	3.05	SLT	2.73	90	M666724	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
122.53	125.58	3.05	SLT	2.50	82	M666725	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
125.58	127.48	1.90	SLT	1.45	76	M666726	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.48	130.15	2.67	DST, SLT	2.67	100	M666727	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130.15	131.67	1.52	DST	1.52	100	M666729	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
131.67	133.72	2.05	DST	1.92	94	M666730	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
133.72	136.25	2.53	DST	2.53	100	M666731	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
133.72	136.25	2.53	DST	2.53	100	M666732	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
136.25	139.29	3.04	DST	3.04	100	M666733	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
139.29	142.34	3.05	DST	2.79	91	M666734	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
142.34	145.39	3.05	DST	2.52	83	M666735	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
145.39	148.44	3.05	DST	3.00	98	M666736	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
148.44	151.49	3.05	DST	3.05	100	K306429	12-029			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
151.49	154.53	3.04	DST	2.82	93	K306430	12-029			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
154.53	156.48	1.95	DST	1.27	65	K306431	12-029			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
156.48	157.85	1.37	DST	1.25	91	K306433	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
157.85	160.63	2.78	DST	2.15	77	K306434	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160.63	163.68	3.05	DST	3.01	99	K306435	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
163.68	166.73	3.05	DST	2.93	96	K306436	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
166.73	169.77	3.04	DST	3.04	100	K306438	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
169.77	172.82	3.05	DST	3.03	99	K306439	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172.82	175.87	3.05	DST	3.04	100	K306441	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
175.87	178.92	3.05	DST	3.00	98	K306442	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
178.92	181.97	3.05	DST	3.05	100	K306443	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.97	185.01	3.04	DST	3.04	100	K306444	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.97	185.01	3.04	DST	3.04	100	K306445	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
185.01	188.06	3.05	DST	3.00	98	K306446	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
188.06	189.26	1.20	DST	1.20	100	K306447	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
189.26	191.50	2.24	DST	1.31	58	K306448	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.50	194.16	2.66	DST	2.41	91	K306449	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
194.16	197.21	3.05	DST	3.05	100	K306450	12-031			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
197.21	198.93	1.72	DST	1.72	100	M666738	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
198.93	200.25	1.32	DST	1.32	100	M666739	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200.25	202.00	1.75	DST	1.73	99	M666740	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200.25	202.00	1.75	DST	1.73	99	M666741	12-028			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
202.00	203.80	1.80	DST	1.72	96	M666742	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
203.80	206.35	2.55	DST	2.14	84	M666743	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
206.35	209.40	3.05	DST	2.75	90	M666744	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
209.40	212.45	3.05	DST	3.05	100	M666745	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
212.45	215.49	3.04	DST	3.01	99	M666746	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
215.49	218.54	3.05	DST	2.90	95	M666748	12-028			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
218.54	221.00	2.46	DST	2.34	95	M666749	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
221.00	222.26	1.26	DST	1.23	98	M666750	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
222.26	224.64	2.38	DST, LST	2.38	100	M666951	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
224.64	227.69	3.05	LST	2.95	97	M666952	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
227.69	230.73	3.04	LST	2.84	93	M666953	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
230.73	233.78	3.05	LST	3.03	99	M666955	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
233.78	236.83	3.05	LST	3.03	99	M666956	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
236.83	239.88	3.05	LST	2.94	96	M666957	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
239.88	242.93	3.05	LST	3.03	99	M666958	12-028		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
242.93	245.97	3.04	LST	2.78	91	M666959	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
245.97	248.00	2.03	LST	2.03	100	M666960	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
248.00	249.26	1.26	LST	1.13	90	M666961	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
249.26	252.07	2.81	DST, LST	2.81	100	M666962	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
252.07	255.12	3.05	DST	2.90	95	M666964	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
255.12	258.17	3.05	DST	2.88	94	M666965	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
258.17	261.21	3.04	DST	3.00	99	M666966	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
261.21	262.44	1.23	DST	1.23	100	M666967	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
262.44	264.26	1.82	DST, LST	1.74	96	M666968	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
264.26	267.31	3.05	LST	3.05	100	M666970	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
267.31	270.36	3.05	LST	1.75	57	M666971	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
270.36	273.41	3.05	LST	2.85	93	M666972	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
270.36	273.41	3.05	LST	2.85	93	M666973	12-039		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
273.41	275.65	2.24	LST	2.06	92	M666974	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
275.65	276.45	0.80	LST, DST	0.80	100	K306626	12-037		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
276.45	279.50	3.05	DST	3.00	98	K306627	12-037		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
279.50	282.55	3.05	DST	2.73	90	K306628	12-037		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
279.50	282.55	3.05	DST	2.73	90	K306629	12-037		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
282.55	285.60	3.05	DST	3.02	99	K306630	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
285.60	288.65	3.05	DST	2.90	95	K306631	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
288.65	291.69	3.04	DST	2.97	98	K306632	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
291.69	294.74	3.05	DST	2.89	95	K306635	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
294.74	297.79	3.05	DST	2.90	95	K306636	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
297.79	300.84	3.05	DST	3.00	98	K306637	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300.84	303.89	3.05	DST	3.03	99	K306638	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
303.89	306.93	3.04	DST	2.92	96	K306639	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
306.93	309.98	3.05	DST	2.96	97	K306640	12-037			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
309.98	313.03	3.05	DST	3.03	99	K306658	12-040			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
313.03	316.08	3.05	DST	2.98	98	K306659	12-040			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
316.08	319.13	3.05	DST	2.93	96	K306660	12-040			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
319.13	322.17	3.04	DST	2.89	95	K306662	12-040			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
322.17	325.22	3.05	DST	2.97	97	K306664	12-040			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
325.22	328.27	3.05	DST	2.94	96	M666975	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
328.27	331.32	3.05	DST	2.95	97	M666976	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
331.32	334.37	3.05	DST	2.96	97	M666977	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
334.37	337.41	3.04	DST	3.01	99	M666978	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
337.41	340.46	3.05	DST	2.85	93	M666979	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
340.46	343.51	3.05	DST	2.93	96	M666981	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
343.51	346.56	3.05	DST	2.84	93	M666982	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
346.56	349.61	3.05	DST	2.96	97	M666983	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
349.61	352.65	3.04	DST	2.78	91	M666984	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
352.65	355.70	3.05	DST	2.95	97	M666986	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
355.70	358.75	3.05	DST	2.89	95	M666987	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
358.75	361.80	3.05	DST	2.72	89	M666988	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
358.75	361.80	3.05	DST	2.72	89	M666989	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
361.80	363.60	1.80	DST	1.80	100	M666990	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
363.60	364.85	1.25	DST	1.25	100	M666991	12-039			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
364.85	367.89	3.04	DST	2.83	93	M666992	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
367.89	370.94	3.05	DST	3.00	98	M666993	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
370.94	373.99	3.05	DST	2.60	85	M666994	12-039		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
373.99	377.04	3.05	DST	2.88	94	M666995	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
377.04	380.09	3.05	DST	3.05	100	M666996	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
380.09	383.13	3.04	DST	2.22	73	M666997	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
383.13	386.18	3.05	DST	3.05	100	M666998	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
386.18	389.23	3.05	DST	3.05	100	M666999	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
389.23	392.28	3.05	DST	3.05	100	M666901	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
392.28	395.33	3.05	DST	3.01	99	M666902	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
395.33	396.35	1.02	DST	1.00	98	M666903	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
396.35	398.37	2.02	DST, LST	2.02	100	M666904	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
398.37	401.42	3.05	LST	3.00	98	M666905	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
401.42	404.47	3.05	LST	3.03	99	M666907	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
404.47	407.52	3.05	LST	3.03	99	M666908	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
404.47	407.52	3.05	LST	3.03	99	M666909	12-042		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
407.52	410.57	3.05	LST	3.00	98	M666910	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
410.57	413.61	3.04	LST	3.04	100	M666911	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
413.61	416.66	3.05	LST	3.05	100	M666912	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
416.66	419.71	3.05	LST	3.05	100	M666913	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
419.71	422.76	3.05	LST	3.03	99	M666915	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
422.76	425.81	3.05	LST	3.03	99	M666916	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
425.81	428.85	3.04	LST	3.03	100	M666917	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
428.85	431.90	3.05	LST	3.02	99	M666918	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
431.90	434.95	3.05	LST	3.05	100	M666920	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
434.95	438.00	3.05	LST	2.87	94	M666921	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
438.00	441.05	3.05	LST	3.02	99	M666922	12-042		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		629178	7111577	1559.53	192.94

**ZONE:** Isis East

**SECTION:** IE12-G

**HOLE: OS -12-101**

**CLAIM:** Sten 39

Contractor: Superior

Drill: 5

Core Size: HQ

Casing Depth: 2.44m, Out

Drilling Dates: Jun 08 - Jun 12, 2012

Geology Logged By: A. Graham

SURVEY			
Depth (m)	Azimuth	Dip	Method
10.05	335.02	-49.9	Reflex
192.93	0.22	-50.8	Reflex

**TARGET:** Mineralization on western limb of anticline

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.44	2.44	OVb
2.44	19.54	17.1	DMT
19.54	28.34	8.8	MST
28.34	38.57	10.23	DMT
38.57	79	40.43	DST
79	192.94	113.94	LST

SAMPLES	
Numbers:	K306538 to K306550, K306701 to K306722, M666538 to M666559, M666562 to M666589
Total:	85
Batch:	034, 038, 046, 050
Certificates:	WH12138338, WH12140452, WH12147070, WH12149945

COMMENTS
Hole was ended because limestone is unmineralized.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.44	2.44	OVB	--	Overburden. No recovery	--	--	MA	---	--	--	0
2.44	19.54	17.10	DMT	MG	Poly lithic, matrix supported debrite. Unit is strongly oxidized and fractured to rubbly.			RB				
						MD	BN	DB	OXI	4I	--	0
19.54	28.34	8.80	MST	FG	Mudstone with sparse limemudstone interbeds.							
						MD	OR					
						MD	GY	MA	OXI	4I	--	0
28.34	38.57	10.23	DMT	MG	Rudstone (70%) with interbeds of lime mudstone (20%) and mudstone (10%).							
						DK	GY	DB	---	--	--	0
38.57	79.00	40.43	DST	MG	Dolorudstone and massive dolostone. Minor realgar and orpiment mineralization between 63 and 79 metres.							
								CR			Om	0.01
						MD	GY	RB	LIM	1I	Re	0.01
79.00	192.94	113.94	LST	FG	Alternating sequences of siltstone and Limestone. Siltstone is well mineralized while limestone has minor mineralization but is usually arsenic oxide altered							
											Om	0.01
						MD	GY	BD	ASO	1I	Re	1

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.44	2.44	0	0	0.00	0	--	--	--	OVERBURDEN
2.44	3.96	1.52	0.9	59	0.10	7	4R	2H	2W	
3.96	5.49	1.53	0.98	64	0.53	35	4R	2H	2W	
5.49	7.01	1.52	1.48	97	1.35	89	4R	2H	1W	
7.01	8.53	1.52	1.47	97	0.93	61	4R	2H	1W	
8.53	10.06	1.53	1.36	89	0.45	29	4R	2H	1W	
10.06	11.58	1.52	1.08	71	0.30	20	4R	2H	2W	
11.58	13.11	1.53	1.38	90	1.08	71	1R	2H	1W	
13.11	14.63	1.52	1.43	94	1.38	91	1R	2H	1W	
14.63	16.15	1.52	1.36	89	1.03	68	3R	2H	1W	
16.15	17.68	1.53	1.44	94	0.85	56	4R	2H	1W	
17.68	19.20	1.52	1.51	99	0.75	49	4R	2H	1W	
19.20	20.73	1.53	1.3	85	0.80	52	4R	2H	1W	
20.73	22.25	1.52	1.3	86	0.10	7	3R	2H	2W	
22.25	23.77	1.52	1.28	84	0.82	54	1R	2H	2W	
23.77	25.30	1.53	1.38	90	0.54	35	0R	2H	1W	
25.30	26.82	1.52	1.1	72	0.30	20	1R	2H	3W	
26.82	28.34	1.52	0.88	58	0.20	13	1R	2H	2W	
28.34	29.87	1.53	1.5	98	1.34	88	1R	2H	2W	
29.87	31.39	1.52	1.36	89	1.36	89	1R	2H	1W	
31.39	32.92	1.53	1.5	98	1.22	80	1R	2H	1W	
32.92	34.44	1.52	1.2	79	1.12	74	1R	2H	1W	
34.44	35.97	1.53	1.53	100	1.34	88	1R	2H	1W	
35.97	37.49	1.52	1.48	97	1.32	87	3R	2H	1W	
37.49	39.01	1.52	1.52	100	1.43	94	4R	2H	1W	
39.01	40.54	1.53	1.47	96	1.00	65	0R	2H	1W	
40.54	42.06	1.52	1.43	94	1.14	75	1R	2H	1W	
42.06	43.59	1.53	0.85	56	0.00	0	1R	2H	1W	
43.59	45.11	1.52	1.52	100	0.93	61	1R	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
45.11	46.63	1.52	1.28	84	0.45	30	1R	2H	2W	
46.63	48.16	1.53	0.55	36	0.10	7	3R	2H	1W	
48.16	49.68	1.52	1.15	76	0.85	56	3R	2H	1W	
49.68	51.21	1.53	0.9	59	0.38	25	1R	2H	1W	
51.21	52.73	1.52	0.87	57	0.37	24	1R	2H	1W	
52.73	54.25	1.52	0.55	36	0.00	0	1R	2H	2W	
54.25	55.78	1.53	1.1	72	0.67	44	1R	2H	2W	
55.78	57.30	1.52	1.28	84	0.80	53	1R	2H	2W	
57.30	58.82	1.52	1.46	96	0.88	58	3R	2H	2W	
58.82	60.35	1.53	1.05	69	0.46	30	1R	2H	2W	
60.35	61.87	1.52	0.83	55	0.00	0	1R	2H	3W	
61.87	63.40	1.53	1.19	78	0.65	42	1R	2H	2W	
63.40	64.92	1.52	1.23	81	0.64	42	1R	2H	3W	
64.92	66.44	1.52	1.2	79	0.14	9	1R	2H	3W	
66.44	67.97	1.53	1.23	80	0.56	37	3R	2H	3W	
67.97	69.49	1.52	0.7	46	0.24	16	3R	2H	3W	
69.49	71.02	1.53	0.72	47	0.15	10	1R	2H	3W	
71.02	72.54	1.52	1.35	89	0.14	9	3R	2H	3W	
72.54	74.07	1.53	1.44	94	0.97	63	3R	2H	2W	
74.07	75.59	1.52	1.33	88	0.50	33	1R	2H	2W	
75.59	77.11	1.52	1.33	88	0.72	47	1R	2H	2W	
77.11	78.64	1.53	1.48	97	0.93	61	1R	2H	2W	
78.64	80.16	1.52	1.26	83	0.66	43	1R	2H	1W	
80.16	81.69	1.53	1.29	84	0.77	50	1R	2H	1W	
81.69	83.21	1.52	1.43	94	0.95	63	1R	2H	1W	
83.21	84.73	1.52	1.52	100	0.60	39	1R	2H	2W	
84.73	86.26	1.53	1.53	100	0.00	0	4R	3H	1W	
86.26	87.78	1.52	1.52	100	0.46	30	4R	3H	1W	
87.78	89.31	1.53	1.12	73	0.13	8	4R	3H	2W	
89.31	90.83	1.52	1.52	100	1.32	87	4R	4H	2W	
90.83	92.35	1.52	1.2	79	0.41	27	4R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
92.35	93.88	1.53	1.09	71	0.00	0	4R	4H	2W	
93.88	95.40	1.52	1.17	77	0.70	46	2R	2H	3W	Mineralized, altered zone. Clasts of limestone within siltstone.
95.40	96.93	1.53	1.21	79	0.36	24	3R	3H	2W	
96.93	98.45	1.52	1.01	66	0.12	8	3R	3H	2W	
98.45	99.97	1.52	1.46	96	0.30	20	4R	2H	2W	
99.97	101.50	1.53	1.11	73	0.65	42	4R	4H	3W	
101.50	103.02	1.52	1.31	86	0.53	35	4R	4H	2W	
103.02	104.55	1.53	1.24	81	0.50	33	4R	4H	3W	
104.55	106.07	1.52	1.52	100	0.12	8	4R	3H	2W	
106.07	107.59	1.52	0.83	55	0.14	9	4R	4H	2W	
107.59	109.12	1.53	1.42	93	0.15	10	4R	4H	2W	
109.12	110.64	1.52	1.16	76	0.00	0	4R	3H	2W	
110.64	112.17	1.53	1.12	73	0.34	22	4R	3H	3W	
112.17	113.69	1.52	1.26	83	0.43	28	4R	3H	2W	
113.69	115.21	1.52	0.97	64	0.36	24	4R	3H	3W	
115.21	116.74	1.53	1.2	78	0.61	40	4R	4H	3W	
116.74	118.26	1.52	1.14	75	0.51	34	4R	3H	3W	
118.26	119.79	1.53	1.06	69	0.28	18	4R	4H	2W	
119.79	121.31	1.52	1.31	86	0.11	7	4R	4H	2W	
121.31	122.83	1.52	1.11	73	0.71	47	4R	4H	2W	
122.83	124.36	1.53	0.83	54	0.49	32	4R	4H	2W	
124.36	125.88	1.52	1.45	95	0.40	26	4R	4H	2W	
125.88	127.41	1.53	1.12	73	0.00	0	4R	4H	2W	
127.41	128.93	1.52	1.41	93	0.46	30	4R	4H	2W	
128.93	130.45	1.52	1.14	75	0.42	28	4R	3H	2W	
130.45	131.98	1.53	1.53	100	0.47	31	4R	3H	1W	
131.98	133.50	1.52	1.31	86	0.50	33	4R	4H	2W	
133.50	135.03	1.53	1.36	89	0.70	46	4R	4H	1W	
135.03	136.55	1.52	1.41	93	0.92	61	1R	4H	1W	
136.55	138.07	1.52	1.35	89	1.08	71	1R	4H	2W	
138.07	139.60	1.53	1.5	98	0.68	44	1R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
139.60	141.12	1.52	1.2	79	0.30	20	4R	4H	3W	
141.12	142.65	1.53	1.18	77	0.20	13	3R	4H	2W	
142.65	144.17	1.52	1.18	78	1.10	72	2R	3H	1W	
144.17	145.69	1.52	1.34	88	1.07	70	1R	3H	1W	
145.69	147.22	1.53	1.44	94	0.95	62	1R	4H	2W	
147.22	148.74	1.52	1.52	100	1.52	100	4R	4H	1W	
148.74	150.27	1.53	1.09	71	0.80	52	4R	3H	1W	
150.27	151.79	1.52	1.38	91	0.78	51	4R	3H	1W	
151.79	153.31	1.52	1.52	100	1.44	95	1R	4H	1W	
153.31	154.83	1.52	1.3	86	0.89	59	4R	4H	1W	
154.83	156.36	1.53	1.52	99	0.82	54	4R	4H	1W	
156.36	157.89	1.53	1.45	95	1.15	75	4R	4H	1W	
157.89	159.41	1.52	0.95	63	0.29	19	3R	3H	1W	
159.41	160.93	1.52	1.4	92	0.62	41	3R	4H	1W	
160.93	162.46	1.53	0.8	52	0.00	0	4R	3H	1W	
162.46	163.98	1.52	1.52	100	1.02	67	4R	4H	1W	
163.98	165.51	1.53	1.36	89	1.12	73	4R	4H	1W	
165.51	167.03	1.52	1.35	89	0.89	59	1R	4H	1W	
167.03	168.55	1.52	1.52	100	0.48	32	1R	4H	1W	
168.55	170.08	1.53	1.46	95	0.15	10	4R	4H	1W	
170.08	171.60	1.52	1.3	86	0.00	0	4R	4H	1W	
171.60	173.13	1.53	1.53	100	0.70	46	4R	4H	2W	
173.13	174.65	1.52	1.35	89	0.88	58	4R	4H	1W	
174.65	176.17	1.52	1.32	87	0.18	12	4R	3H	1W	
176.17	177.70	1.53	1.38	90	1.13	74	4R	3H	2W	
177.70	179.22	1.52	1.46	96	0.76	50	4R	4H	2W	
179.22	180.75	1.53	1.32	86	1.02	67	4R	4H	2W	
180.75	182.27	1.52	1.52	100	0.94	62	4R	4H	2W	
182.27	183.79	1.52	1.23	81	0.62	41	4R	4H	2W	
183.79	185.32	1.53	1.42	93	0.65	42	4R	4H	2W	
185.32	186.84	1.52	1.28	84	0.50	33	4R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
186.84	188.37	1.53	1.37	90	0.68	44	4R	4H	2W	
188.37	189.89	1.52	1.52	100	0.95	63	4R	4H	2W	
189.89	191.41	1.52	1.52	100	0.65	43	4R	4H	1W	
191.41	192.94	1.53	1.17	76	0.48	31	4R	4H	1W	EOH



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M666583	12-050	B	P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306706	12-038	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306712	12-046	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306718	12-046	A	3G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666543	12-034	B	P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666553	12-034	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666559	12-034	B	P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666569	12-034	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666578	12-050	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306703	12-038	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.44	5.49	3.05	OVB, DMT	1.88	62	M666538	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.49	8.53	3.04	DMT	3.04	100	M666539	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.53	11.58	3.05	DMT	2.44	80	M666540	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.58	14.63	3.05	DMT	2.81	92	M666541	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.63	17.68	3.05	DMT	2.80	92	M666542	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.68	19.54	1.86	DMT	1.78	96	M666544	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.54	22.25	2.71	MST, DMT	2.30	85	M666545	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.25	25.30	3.05	MST	2.66	87	M666546	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.30	28.34	3.04	MST	1.90	63	M666547	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.34	31.39	3.05	DMT, MST	2.86	94	M666548	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.34	31.39	3.05	DMT, MST	2.86	94	M666549	12-034	B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31.39	34.44	3.05	DMT	2.70	89	M666550	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.44	36.50	2.06	DMT	2.00	97	M666551	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.50	38.57	2.07	DMT	2.01	97	M666552	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.57	40.54	1.97	DST, DMT	1.94	98	M666554	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.54	43.59	3.05	DST	2.28	75	M666555	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43.59	46.63	3.04	DST	2.81	92	M666556	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46.63	48.50	1.87	DST	1.87	100	M666557	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48.50	50.59	2.09	DST	1.30	62	M666558	12-034	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.59	52.73	2.14	DST	1.34	63	K306538	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52.73	55.78	3.05	DST	1.65	54	K306539	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
55.78	58.82	3.04	DST	2.74	90	K306540	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58.82	61.87	3.05	DST	1.88	62	K306541	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61.87	63.03	1.16	DST	1.08	93	K306542	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63.03	64.92	1.89	DST	1.40	74	K306543	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64.92	67.97	3.05	DST	2.43	80	K306544	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67.97	71.02	3.05	DST	1.42	47	K306545	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71.02	74.07	3.05	DST	2.79	91	K306546	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74.07	77.11	3.04	DST	2.66	88	K306547	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74.07	77.11	3.04	DST	2.66	88	K306548	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
77.11	79.00	1.89	DST	1.80	95	K306549	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79.00	81.69	2.69	LST, DST	2.26	84	K306550	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81.69	83.21	1.52	LST	1.46	96	K306701	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83.21	85.46	2.25	LST	2.05	91	K306702	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.46	87.78	2.32	LST	1.93	83	K306704	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.78	90.83	3.05	LST	2.40	79	K306705	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90.83	92.35	1.52	LST	1.25	82	K306707	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92.35	94.09	1.74	LST	1.33	76	K306708	12-038	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94.09	96.93	2.84	LST	2.18	77	K306709	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96.93	99.00	2.07	LST	1.49	72	K306710	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
99.00	100.60	1.60	LST	1.40	88	K306711	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100.60	103.02	2.42	LST	1.83	76	K306713	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103.02	105.22	2.20	LST	1.51	69	K306714	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.22	107.59	2.37	LST	1.69	71	K306715	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
107.59	109.62	2.03	LST	1.74	86	K306716	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
109.62	112.17	2.55	LST	1.54	60	K306717	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
112.17	115.21	3.04	LST	2.23	73	K306719	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
115.21	117.18	1.97	LST	1.45	74	K306720	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
117.18	119.79	2.61	LST	2.00	77	K306721	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
119.79	122.83	3.04	LST	2.42	80	K306722	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.83	125.88	3.05	LST	2.28	75	M666562	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
125.88	128.93	3.05	LST	2.53	83	M666563	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
128.93	131.98	3.05	LST	2.67	88	M666564	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
131.98	135.03	3.05	LST	2.65	87	M666565	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
135.03	138.07	3.04	LST	2.76	91	M666566	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
138.07	141.12	3.05	LST	1.70	56	M666567	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
141.12	144.17	3.05	LST	2.36	77	M666568	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
144.17	147.22	3.05	LST	2.78	91	M666570	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
147.22	150.27	3.05	LST	2.61	86	M666571	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
147.22	150.27	3.05	LST	2.61	86	M666572	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
150.27	153.31	3.04	LST	2.90	95	M666573	12-034	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
153.31	156.36	3.05	LST	2.82	92	M666574	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
156.36	159.41	3.05	LST	2.00	66	M666575	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
159.41	162.46	3.05	LST	2.20	72	M666576	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
162.46	165.51	3.05	LST	2.88	94	M666577	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
165.51	168.55	3.04	LST	2.87	94	M666579	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
168.55	171.60	3.05	LST	2.76	90	M666580	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
171.60	174.65	3.05	LST	2.88	94	M666581	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
174.65	177.70	3.05	LST	2.70	89	M666582	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
177.70	180.75	3.05	LST	2.78	91	M666584	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
180.75	183.79	3.04	LST	2.75	90	M666585	12-050	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
183.79	186.84	3.05	LST	2.70	89	M666586	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
186.84	189.89	3.05	LST	2.89	95	M666587	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
189.89	192.94	3.05	LST	3.04	100	M666588	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
189.89	192.94	3.05	LST	3.04	100	M666589	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		628981	7111648	1541.98	309.98

**ZONE:** Isis East  
**SECTION:** IE12-L

**HOLE: OS -12-104**

**CLAIM:** Sten 39

Contractor: Superior

Drill: 2

Core Size: HQ-NQ

Casing Depth: 6.1m, Out

Drilling Dates: Jun 10 - Jun 15, 2012

Geology Logged By: W. Ferris

SURVEY			
Depth (m)	Azimuth	Dip	Method
8.22	42.32	-50.6	Reflex
309.98	48.82	-45.5	Reflex

**TARGET:** Mineralization on the western limb of anticline

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.78	0.78	OVB
0.78	30.39	29.61	LST
30.39	54.06	23.67	MST
54.06	88.18	34.12	LST
88.18	101.4	13.22	SLT
101.4	126.62	25.22	DMT
126.62	138.23	11.61	SLT
138.23	268.66	130.43	DST
268.66	309.98	41.32	MST

SAMPLES	
Numbers:	K306672 to K306700, K306951 to K306970, M666601 to M666606, M666923 to M666950, M667401 to M667450
Total:	133
Batch:	040, 042, 053, 057, 060, 063, 066
Certificates:	WH12138339, WH12144260, WH12144262, WH12148782, WH12149946, WH12150396, WH12153606

COMMENTS
Hole ended because the maroon mudstone was intersectedd. Massive sulphide body from 51.50 to 51.87 m could be from MVT mineralization.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.78	0.78	OVB	--	No Recovery.	--	--	--	--	--	--	0
0.78	30.39	29.61	LST	FG	Bedded lime mudstone oriented 45 degrees TCA with a bed of diamictite and interbeds of packstone.	MD	GY					
						MD	BN	BD	LIM	2I	--	0
30.39	54.06	23.67	MST	FG	Heavily faulted and veined unit comprised of 75% mudstone, 20% sandstone, and 5% conglomerate. A massive sulphide body of pyrite and sphalerite occurs from 51.50 to 51.87 m.						Sp	0.01
						DK	GY	FR	LIM	2I	Py	1
54.06	88.18	34.12	LST	FG	Lime mudstone bedded 40-50 degrees TCA and interspersed with occasional rudstone beds.							
						DK	GY	BD	---	--	--	0
88.18	101.40	13.22	SLT	VF	Bedded siltstone oriented 45 degrees TCA. Pyrite occurs as blebby bands. Green fluorite grains occurs in a quartz arenite bed.						Fl	0.01
						MD	GN	BD	---	--	Py	1
101.40	126.62	25.22	DMT	VC	Diamictite consisting of 30% subangular carbonate clasts and 70% mud matrix. Some lower sections are dolomitized.							
						MD	GY	MA	---	--	--	0
126.62	138.23	11.61	SLT	VF	Bedded siltstone oriented 45-50 degrees TCA. A few beds of lithic conglomerate 3-15 cm thick are interbedded.						Ma	0.01
						MD	GN	BD	---	--	Py	2
138.23	268.66	130.43	DST	FG	Dominantly dolomudstone with interbeds of lime mudstone and dolerudstone. Realgar, pyrite, orpiment, and arsenic oxide all occur within.							
											Fl	0.01
											Om	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	BD	ASO	2I	Re	0.05
268.66	309.98	41.32	MST	VF	Bedded green and red mudstone. The green mudstone has pyrite.							
						MD	GN	BD	---	--	Py	0.05

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.78	0.78	0	0	0.00	0	--	--	--	overburden
0.78	3.00	2.22	1.98	89	0.19	9	4R	1H	5W	no block markers
3.00	5.18	2.18	1.99	91	0.42	19	4R	2H	5W	no block markers
5.18	6.71	1.53	1.35	88	0.24	16	4R	4H	3W	
6.71	8.23	1.52	1.24	82	0.12	8	4R	3H	3W	
8.23	9.75	1.52	1.32	87	0.21	14	4R	3H	3W	
9.75	11.28	1.53	1.42	93	0.13	8	4R	3H	3W	
11.28	12.80	1.52	1.08	71	0.21	14	4R	4H	3W	
12.80	14.33	1.53	1.47	96	0.77	50	4R	4H	3W	
14.33	15.85	1.52	1.28	84	0.54	36	4R	4H	3W	
15.85	17.37	1.52	1.15	76	0.38	25	4R	4H	3W	
17.37	18.90	1.53	1.48	97	0.40	26	4R	4H	3W	
18.90	20.42	1.52	1.39	91	0.26	17	4R	4H	3W	
20.42	21.95	1.53	1.23	80	0.63	41	4R	4H	2W	
21.95	23.47	1.52	1.45	95	0.91	60	4R	4H	4W	
23.47	25.00	1.53	1.33	87	0.22	14	4R	3H	4W	
25.00	26.52	1.52	1.38	91	0.82	54	4R	4H	4W	
26.52	28.04	1.52	1.24	82	0.26	17	4R	4H	4W	
28.04	29.57	1.53	1.04	68	0.00	0	4R	3H	4W	
29.57	31.09	1.52	1.41	93	0.69	45	4R	4H	3W	
31.09	32.61	1.52	1.02	67	0.41	27	4R	4H	3W	
32.61	34.14	1.53	1.11	73	0.62	41	4R	4H	4W	
34.14	35.66	1.52	0.89	59	0.22	14	4R	4H	4W	
35.66	37.19	1.53	0.83	54	0.27	18	4R	4H	4W	
37.19	38.71	1.52	1.21	80	0.86	57	OR	3H	3W	
38.71	40.23	1.52	1.26	83	0.87	57	OR	3H	3W	
40.23	41.76	1.53	1.44	94	0.58	38	OR	3H	3W	
41.76	43.28	1.52	1.08	71	0.32	21	OR	3H	3W	
43.28	44.81	1.53	1.48	97	0.26	17	OR	3H	3W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.22	80	0.55	36	0R	4H	3W	
46.33	47.85	1.52	1.37	90	0.48	32	0R	3H	3W	
47.85	49.38	1.53	1.42	93	0.82	54	0R	3H	3W	
49.38	50.90	1.52	1.26	83	0.35	23	0R	3H	2W	
50.90	52.43	1.53	1.48	97	1.17	76	0R	3H	2W	
52.43	53.95	1.52	1.3	86	0.42	28	2R	3H	3W	
53.95	55.47	1.52	1.42	93	0.42	28	1R	3H	2W	
55.47	57.00	1.53	1.25	82	0.44	29	4R	3H	3W	
57.00	58.52	1.52	1.27	84	0.89	59	4R	3H	3W	
58.52	60.05	1.53	1.34	88	0.31	20	4R	3H	3W	
60.05	61.57	1.52	1.18	78	0.44	29	0R	3H	3W	
61.57	63.10	1.53	1.45	95	0.89	58	4R	3H	2W	
63.10	64.62	1.52	1.43	94	0.46	30	4R	3H	2W	
64.62	66.14	1.52	1.43	94	0.65	43	4R	3H	2W	
66.14	67.67	1.53	1.46	95	0.78	51	4R	4H	2W	
67.67	69.19	1.52	1.52	100	0.81	53	4R	3H	2W	
69.19	70.71	1.52	1.52	100	0.87	57	0R	3H	3W	
70.71	72.24	1.53	1.39	91	0.67	44	0R	3H	3W	
72.24	73.76	1.52	1.26	83	0.74	49	4R	3H	1W	
73.76	75.29	1.53	1.53	100	1.30	85	4R	4H	1W	
75.29	76.81	1.52	1.31	86	1.18	78	4R	4H	1W	
76.81	78.33	1.52	1.4	92	1.02	67	4R	4H	1W	
78.33	79.86	1.53	1.4	92	1.25	82	4R	4H	1W	
79.86	81.38	1.52	1.41	93	0.91	60	4R	4H	1W	
81.38	82.91	1.53	1.52	99	0.85	56	4R	4H	1W	
82.91	84.43	1.52	1.52	100	0.93	61	4R	4H	1W	
84.43	85.95	1.52	1.32	87	0.90	59	4R	3H	1W	
85.95	87.48	1.53	1.47	96	0.24	16	4R	3H	1W	
87.48	89.00	1.52	1.39	91	0.41	27	3R	3H	1W	
89.00	90.53	1.53	1.53	100	0.68	44	2R	3H	1W	mudstone with lime interbeds
90.53	92.05	1.52	1.52	100	0.92	61	2R	3H	1W	mudstone with lime interbeds

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
92.05	93.57	1.52	1.49	98	0.60	39	1R	3H	1W	
93.57	95.10	1.53	1.49	97	0.60	39	1R	3H	1W	
95.10	96.62	1.52	1.52	100	1.19	78	2R	4H	1W	Breccia with calcareous clasts
96.62	98.15	1.53	1.45	95	1.31	86	1R	3H	1W	
98.15	99.67	1.52	1.52	100	1.13	74	0R	3H	1W	
99.67	101.19	1.52	1.47	97	1.45	95	1R	3H	1W	
101.19	102.72	1.53	1.52	99	1.27	83	3R	4H	1W	
102.72	104.24	1.52	1.42	93	1.19	78	3R	4H	1W	
104.24	105.76	1.52	1.52	100	1.20	79	3R	4H	1W	
105.76	107.29	1.53	1.49	97	1.33	87	2R	4H	1W	
107.29	108.81	1.52	1.52	100	1.52	100	2R	4H	1W	
108.81	110.34	1.53	1.45	95	1.24	81	2R	4H	1W	
110.34	111.86	1.52	1.52	100	1.38	91	3R	4H	1W	
111.86	113.39	1.53	1.45	95	1.45	95	2R	4H	1W	
113.39	114.91	1.52	1.52	100	1.20	79	2R	4H	1W	
114.91	116.43	1.52	1.36	89	1.19	78	3R	4H	1W	
116.43	117.96	1.53	1.53	100	1.06	69	3R	4H	1W	
117.96	119.48	1.52	1.46	96	1.34	88	2R	3H	1W	
119.48	121.01	1.53	1.53	100	1.05	69	2R	3H	1W	
121.01	122.53	1.52	1.45	95	1.08	71	3R	4H	1W	
122.53	124.05	1.52	1.52	100	1.36	89	3R	4H	1W	
124.05	125.58	1.53	1.35	88	1.19	78	2R	4H	1W	
125.58	127.10	1.52	1.49	98	1.25	82	2R	4H	1W	
127.10	128.63	1.53	1.32	86	1.07	70	1R	3H	1W	
128.63	130.15	1.52	1.48	97	1.25	82	1R	3H	1W	
130.15	131.67	1.52	1.44	95	1.44	95	1R	3H	1W	
131.67	133.20	1.53	1.41	92	1.41	92	1R	3H	1W	
133.20	134.72	1.52	1.47	97	1.33	88	1R	3H	1W	
134.72	136.25	1.53	1.52	99	1.43	93	3R	4H	1W	
136.25	137.77	1.52	1.44	95	1.22	80	2R	4H	1W	
137.77	139.29	1.52	1.39	91	0.42	28	2R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
139.29	140.82	1.53	1.35	88	0.90	59	1R	4H	2W	
140.82	142.34	1.52	1.46	96	0.74	49	3R	4H	1W	
142.34	143.87	1.53	1.5	98	0.85	56	3R	3H	1W	
143.87	145.39	1.52	1.28	84	0.67	44	3R	4H	1W	realgar mineralization
145.39	146.91	1.52	1.47	97	0.41	27	3R	4H	1W	realgar mineralization
146.91	148.44	1.53	1.39	91	0.13	8	3R	3H	1W	realgar
148.44	149.96	1.52	1.19	78	0.43	28	3R	4H	3W	realgar
149.96	151.49	1.53	1.4	92	0.80	52	3R	4H	2W	realgar
151.49	153.01	1.52	1.14	75	0.81	53	3R	4H	2W	realgar
153.01	154.53	1.52	1.5	99	0.81	53	3R	4H	1W	realgar
154.53	156.06	1.53	1.5	98	1.50	98	3R	4H	1W	
156.06	157.58	1.52	1.51	99	1.49	98	3R	4H	1W	realgar
157.58	159.11	1.53	1.53	100	1.33	87	3R	3H	1W	
159.11	160.63	1.52	1.44	95	1.25	82	0R	4H	1W	
160.63	162.15	1.52	1.4	92	0.99	65	2R	4H	1W	realgar
162.15	163.68	1.53	1.32	86	0.68	44	2R	4H	1W	realgar
163.68	165.20	1.52	1.49	98	1.34	88	2R	4H	1W	realgar
165.20	166.73	1.53	1.47	96	0.57	37	1R	4H	1W	realgar
166.73	168.25	1.52	1.26	83	1.00	66	2R	4H	1W	realgar
168.25	169.77	1.52	1.48	97	0.57	38	3R	4H	1W	realgar
169.77	171.30	1.53	1.3	85	1.00	65	3R	4H	1W	realgar
171.30	172.82	1.52	1.32	87	0.27	18	2R	4H	1W	
172.82	174.35	1.53	1.41	92	0.97	63	2R	4H	1W	
174.35	175.87	1.52	1.52	100	1.26	83	2R	4H	1W	
175.87	177.39	1.52	1.52	100	1.50	99	2R	4H	1W	
177.39	178.92	1.53	1.52	99	1.02	67	2R	4H	1W	
178.92	180.44	1.52	1.41	93	1.21	80	2R	4H	1W	
180.44	181.97	1.53	1.53	100	1.41	92	2R	4H	1W	
181.97	183.49	1.52	1.46	96	1.07	70	2R	4H	1W	
183.49	185.01	1.52	1.52	100	1.30	86	2R	4H	1W	
185.01	186.54	1.53	1.53	100	1.03	67	2R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
186.54	188.06	1.52	1.52	100	1.16	76	2R	4H	1W	
188.06	189.59	1.53	1.53	100	1.04	68	2R	4H	1W	
189.59	191.11	1.52	1.52	100	0.95	63	2R	4H	1W	
191.11	192.63	1.52	1.41	93	1.18	78	2R	4H	1W	
192.63	194.16	1.53	1.53	100	1.26	82	2R	4H	1W	
194.16	195.68	1.52	1.52	100	1.27	84	2R	4H	1W	
195.68	197.21	1.53	1.53	100	1.28	84	2R	4H	1W	
197.21	198.73	1.52	1.52	100	1.52	100	2R	4H	1W	
198.73	200.25	1.52	1.49	98	1.47	97	2R	4H	1W	
200.25	201.78	1.53	1.53	100	1.27	83	2R	4H	1W	
201.78	203.30	1.52	1.45	95	1.28	84	2R	4H	1W	
203.30	204.83	1.53	1.53	100	1.45	95	2R	4H	1W	
204.83	206.35	1.52	1.52	100	1.40	92	2R	4H	1W	
206.35	207.87	1.52	1.43	94	1.34	88	2R	4H	1W	
207.87	209.40	1.53	1.53	100	1.18	77	2R	4H	1W	
209.40	210.92	1.52	1.4	92	1.39	91	2R	4H	1W	
210.92	212.45	1.53	1.43	93	1.30	85	2R	4H	1W	
212.45	213.97	1.52	1.52	100	1.42	93	2R	4H	1W	
213.97	215.49	1.52	1.52	100	1.52	100	2R	4H	1W	
215.49	217.02	1.53	1.52	99	1.10	72	2R	4H	1W	
217.02	218.54	1.52	1.52	100	1.31	86	2R	4H	1W	
218.54	220.07	1.53	1.39	91	1.06	69	4R	3H	1W	
220.07	221.59	1.52	1.52	100	1.20	79	4R	3H	1W	Contact between dolostone/mudstone beds.
221.59	223.11	1.52	1.48	97	1.34	88	2R	4H	1W	
223.11	224.64	1.53	1.38	90	1.23	80	2R	4H	1W	
224.64	226.16	1.52	1.52	100	1.28	84	2R	4H	1W	
226.16	227.69	1.53	1.53	100	1.18	77	2R	4H	1W	
227.69	229.21	1.52	1.5	99	0.80	53	0R	2H	1W	Dolostone/Limestone contact
229.21	230.73	1.52	1.52	100	1.22	80	0R	2H	1W	
230.73	232.26	1.53	1.4	92	1.31	86	0R	2H	1W	
232.26	233.78	1.52	1.47	97	1.06	70	1R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
233.78	235.31	1.53	1.45	95	0.42	27	2R	3H	1W	
235.31	236.83	1.52	1.38	91	0.99	65	2R	3H	1W	
236.83	238.35	1.52	1.5	99	0.24	16	2R	3H	1W	
238.35	239.88	1.53	1.4	92	0.00	0	2R	3H	1W	
239.88	241.40	1.52	1.27	84	0.67	44	2R	3H	1W	
241.40	242.93	1.53	1.53	100	0.83	54	3R	3H	1W	
242.93	244.45	1.52	1.34	88	0.67	44	2R	3H	2W	
244.45	245.97	1.52	1.37	90	0.69	45	2R	3H	2W	
245.97	247.50	1.53	1.46	95	0.96	63	2R	3H	2W	
247.50	249.02	1.52	1.24	82	1.20	79	2R	3H	2W	
249.02	250.55	1.53	1.53	100	0.00	0	4R	3H	2W	
250.55	252.07	1.52	1.52	100	1.21	80	4R	3H	1W	
252.07	255.12	3.05	2.92	96	2.46	81	3R	4H	1W	reduced to NQ
255.12	258.17	3.05	2.89	95	2.89	95	2R	4H	1W	
258.17	261.21	3.04	2.93	96	2.93	96	1R	3H	1W	
261.21	264.26	3.05	3.05	100	2.74	90	2R	3H	1W	
264.26	267.31	3.05	3.03	99	2.90	95	0R	3H	1W	
267.31	270.36	3.05	3.04	100	2.30	75	1R	3H	1W	
270.36	273.41	3.05	2.93	96	2.38	78	0R	3H	1W	
273.41	276.45	3.04	3.04	100	2.65	87	0R	3H	1W	
276.45	279.50	3.05	3.05	100	2.86	94	1R	3H	1W	
279.50	282.55	3.05	3.03	99	2.97	97	0R	3H	1W	
282.55	285.60	3.05	2.96	97	1.96	64	0R	3H	1W	
285.60	288.65	3.05	2.95	97	2.68	88	0R	4H	1W	
288.65	291.69	3.04	2.97	98	2.83	93	0R	3H	1W	
291.69	294.74	3.05	2.96	97	2.90	95	0R	3H	1W	
294.74	297.79	3.05	2.88	94	2.45	80	0R	3H	1W	
297.79	300.84	3.05	3.05	100	2.07	68	0R	3H	1W	
300.84	303.89	3.05	2.99	98	2.64	87	0R	3H	1W	
303.89	306.93	3.04	3.03	100	2.56	84	0R	4H	1W	
306.93	309.98	3.05	3.05	100	3.05	100	0R	3H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M666946	12-053		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667448	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667435	12-057			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667431	12-057		P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306683	12-060			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667403	12-053		P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666941	12-053			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666933	12-053			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306968	12-063	A	3G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306962	12-060		3G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306961	12-060			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306686	12-060		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667425	12-057			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.78	3.00	2.22	LST, OVB	1.98	89	M666923	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.00	5.18	2.18	LST	1.99	91	M666924	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	8.23	3.05	LST	2.59	85	M666925	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	11.28	3.05	LST	2.74	90	M666926	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	14.33	3.05	LST	2.55	84	M666927	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	LST	2.43	80	M666928	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	LST	2.43	80	M666929	12-042			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17.37	20.42	3.05	LST	2.87	94	M666930	12-053			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	23.47	3.05	LST	2.68	88	M666931	12-053			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.47	26.52	3.05	LST	2.71	89	M666932	12-053			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	28.04	1.52	LST	1.24	82	M666934	12-053			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.04	30.39	2.35	LST	1.38	59	M666935	12-053			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30.39	32.61	2.22	MST, LST	1.39	63	M666936	12-053			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	35.66	3.05	MST	2.00	66	M666937	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35.66	38.71	3.05	MST	2.04	67	M666938	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
38.71	41.76	3.05	MST	2.70	89	M666939	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41.76	44.81	3.05	MST	2.56	84	M666940	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44.81	47.85	3.04	MST	2.59	85	M666942	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47.85	50.90	3.05	MST	2.68	88	M666943	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50.90	52.43	1.53	MST	1.53	100	M666944	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.43	54.06	1.63	MST	1.27	78	M666945	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
54.06	57.00	2.94	MST, LST	2.04	69	M666947	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.00	60.05	3.05	LST	2.61	86	M666948	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.05	63.10	3.05	LST	2.63	86	M666949	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.10	66.14	3.04	LST	2.84	93	M666950	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	69.19	3.05	LST	2.98	98	M667401	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	70.71	1.52	LST	1.52	100	M667402	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
70.71	72.39	1.68	LST	1.39	83	M667404	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.39	75.29	2.90	LST	2.79	96	M667405	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	78.33	3.04	LST	2.71	89	M667406	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	78.33	3.04	LST	2.71	89	M667407	12-053		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
78.33	81.38	3.05	LST	2.81	92	M667408	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	84.43	3.05	LST	3.04	100	M667409	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84.43	85.95	1.52	LST	1.32	87	M667410	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
85.95	88.18	2.23	LST	1.84	83	M667411	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
88.18	90.53	2.35	LST, SLT	2.17	92	M667412	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	93.57	3.04	SLT	3.01	99	M667413	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	SLT	3.01	99	M667414	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	SLT	3.01	99	M667415	12-053		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
96.62	99.67	3.05	SLT	2.97	97	M667416	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	101.40	1.73	SLT	1.67	97	M667417	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101.40	104.24	2.84	SLT, DMT	2.62	92	M667418	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
104.24	107.29	3.05	DMT	3.01	99	M667419	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
104.24	107.29	3.05	DMT	3.01	99	M667420	12-057		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
107.29	110.34	3.05	DMT	2.97	97	M667421	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
110.34	113.39	3.05	DMT	2.97	97	M667422	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
113.39	116.43	3.04	DMT	2.88	95	M667423	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
116.43	119.48	3.05	DMT	2.99	98	M667424	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
119.48	122.53	3.05	DMT	2.98	98	M667426	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.53	125.58	3.05	DMT	2.87	94	M667427	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
125.58	126.62	1.04	DMT	1.04	100	M667428	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
126.62	128.63	2.01	DMT, SLT	1.79	89	M667429	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
128.63	131.67	3.04	SLT	2.92	96	M667430	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
131.67	134.72	3.05	SLT	2.88	94	M667432	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
134.72	136.25	1.53	SLT	1.53	100	M667433	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
136.25	138.23	1.98	SLT	1.90	96	M667434	12-057		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
138.23	140.82	2.59	DST, SLT	2.06	80	K306672	12-040		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
140.82	143.87	3.05	DST	2.96	97	K306673	12-040		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
143.87	146.91	3.04	DST	2.75	90	K306674	12-040		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
146.91	149.96	3.05	DST	2.58	85	K306675	12-040		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
149.96	153.01	3.05	DST	2.54	83	K306676	12-040		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
153.01	156.06	3.05	DST	3.00	98	K306677	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
156.06	159.11	3.05	DST	3.04	100	K306678	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
159.11	162.15	3.04	DST	2.84	93	K306679	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
162.15	165.20	3.05	DST	2.81	92	K306680	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
165.20	168.25	3.05	DST	2.73	90	K306681	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
168.25	171.30	3.05	DST	2.78	91	K306682	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
171.30	172.58	1.28	DST	1.06	83	K306684	12-060		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
172.58	174.35	1.77	DST	1.61	91	K306685	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
174.35	177.39	3.04	DST	3.04	100	K306687	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
177.39	180.44	3.05	DST	2.94	96	K306688	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180.44	183.49	3.05	DST	2.99	98	K306689	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180.44	183.49	3.05	DST	2.99	98	K306690	12-060			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
183.49	186.54	3.05	DST	3.05	100	K306691	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
186.54	189.59	3.05	DST	3.05	100	K306692	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
189.59	192.63	3.04	DST	2.93	96	K306693	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.63	195.68	3.05	DST	3.05	100	K306694	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
195.68	198.73	3.05	DST	3.05	100	K306695	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
198.73	201.78	3.05	DST	3.02	99	K306696	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
201.78	203.30	1.52	DST	1.45	95	K306697	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
203.30	205.74	2.44	DST	2.44	100	K306698	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
205.74	207.87	2.13	DST	2.13	100	K306699	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
207.87	210.92	3.05	DST	2.93	96	K306700	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
210.92	213.97	3.05	DST	2.95	97	K306951	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
213.97	217.02	3.05	DST	3.04	100	K306952	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
217.02	220.07	3.05	DST	2.91	95	K306953	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
220.07	223.11	3.04	DST	3.00	99	K306954	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
223.11	226.16	3.05	DST	2.90	95	K306955	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
226.16	229.21	3.05	DST	3.03	99	K306956	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
226.16	229.21	3.05	DST	3.03	99	K306957	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
229.21	232.26	3.05	DST	2.92	96	K306958	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
232.26	235.31	3.05	DST	2.92	96	K306959	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
235.31	238.35	3.04	DST	2.88	95	K306960	12-060			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
238.35	241.40	3.05	DST	2.67	88	K306963	12-063	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
241.40	244.45	3.05	DST	2.87	94	K306964	12-063	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
244.45	247.50	3.05	DST	2.83	93	K306965	12-040			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
247.50	250.32	2.82	DST	1.42	50	K306966	12-063	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
250.32	252.53	2.21	DST	2.17	98	K306967	12-063	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
252.53	255.12	2.59	DST	2.59	100	K306969	12-063	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
255.12	258.17	3.05	DST	2.89	95	K306970	12-063	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
258.17	261.21	3.04	DST	2.93	96	M667436	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
261.21	264.26	3.05	DST	3.05	100	M667437	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
264.26	267.31	3.05	DST	3.03	99	M667438	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
267.31	268.66	1.35	DST	1.35	100	M667439	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
268.66	270.36	1.70	DST, MST	1.68	99	M667440	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
268.66	270.36	1.70	DST, MST	1.68	99	M667441	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
270.36	273.41	3.05	MST	2.93	96	M667442	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
273.41	276.45	3.04	MST	3.04	100	M667443	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
276.45	279.50	3.05	MST	3.05	100	M667444	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
279.50	282.55	3.05	MST	3.03	99	M667445	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
282.55	285.60	3.05	MST	2.96	97	M667446	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
285.60	288.65	3.05	MST	2.95	97	M667447	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
288.65	291.69	3.04	MST	2.97	98	M667449	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
291.69	294.74	3.05	MST	2.96	97	M667450	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
294.74	297.79	3.05	MST	2.88	94	M666601	12-057			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
297.79	300.84	3.05	MST	3.05	100	M666602	12-066			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300.84	303.89	3.05	MST	2.99	98	M666603	12-066			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
303.89	306.93	3.04	MST	3.03	100	M666604	12-066			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
306.93	309.98	3.05	MST	3.05	100	M666605	12-066			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
306.93	309.98	3.05	MST	3.05	100	M666606	12-066			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		629128	7111610	1539.47	196.6

**ZONE:** Isis East  
**SECTION:** IE12-H

**HOLE:** OS -12-107

**CLAIM:** Sten 39

Contractor: Superior

Drill: 5

Core Size: HQ

Casing Depth: 1.83m, Out

Drilling Dates: Jun 12 - Jun 15, 2012

Geology Logged By: N. Beaton

SURVEY			
Depth (m)	Azimuth	Dip	Method
13.71	353.32	-49.4	Reflex
196.59	359.72	-51.5	Reflex

**TARGET:** Mineralization on eastern limb of anticline/hinge of th

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVb
1.52	17.14	15.62	DMT
17.14	27.72	10.58	SLT
27.72	77.72	50	DST
77.72	196.6	118.88	LST

SAMPLES	
Numbers:	K306723 to K306750, K306901 to K306925, M666590 to M666600, M667451 to M667472, M667483
Total:	87
Batch:	046, 050, 069, 074
Certificates:	WH12140452, WH12149945, WH12150397, WH12152306

COMMENTS
Hole was ended due to lack of mineralization in carbonates.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	--	Overburden - no recovery	--	--	MA	---	--	--	0
1.52	17.14	15.62	DMT	MG	Variably oxidized diamictite.	LT	GY	DB	---	--	--	0
17.14	27.72	10.58	SLT	FG	Laminated siltstone with an interbed of oligomict pebble conglomerate.	DK	GN	MA	---	--	Py	1
27.72	77.72	50.00	DST	MG	Dolostone with variable arsenic oxide and arsenic sulphide mineralization.	LT	GY	CR	ASO	2I	Re	0.01
77.72	196.60	118.88	LST	MG	Limestone with variable interbedding of siltstone. Realgar mineralization found sparsely throughout. Most significant realgar mineralization is accompanied by decalcification between 124 - 135 m.	LT	GY	BD	DOL	1I	Re	0.01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0	0	0.00	0	--	--	--	Overburden
1.52	3.05	1.53	1.06	69	0.22	14	4R	4H	3W	
3.05	4.57	1.52	1.09	72	0.36	24	4R	4H	3W	
4.57	6.10	1.53	1.53	100	0.98	64	4R	4H	3W	
6.10	7.62	1.52	0.66	43	0.35	23	4R	3H	3W	
7.62	9.14	1.52	1.1	72	0.79	52	OR	3H	2W	
9.14	10.67	1.53	1.27	83	0.63	41	OR	3H	2W	
10.67	12.19	1.52	1.23	81	0.73	48	4R	3H	2W	
12.19	13.72	1.53	1.34	88	0.69	45	OR	4H	2W	
13.72	15.24	1.52	1.35	89	0.97	64	4R	4H	2W	
15.24	16.76	1.52	1.41	93	0.42	28	OR	4H	3W	
16.76	18.29	1.53	0.97	63	0.48	31	OR	3H	2W	
18.29	19.81	1.52	0.78	51	0.00	0	OR	3H	2W	
19.81	21.34	1.53	1.23	80	0.42	27	OR	3H	2W	
21.34	22.86	1.52	1.17	77	0.14	9	OR	3H	3W	
22.86	24.38	1.52	1.25	82	0.32	21	OR	3H	2W	
24.38	25.91	1.53	1.19	78	0.74	48	OR	3H	1W	
25.91	27.43	1.52	1.24	82	0.86	57	OR	3H	1W	
27.43	28.96	1.53	1.02	67	0.34	22	OR	3H	2W	
28.96	30.48	1.52	1.22	80	0.70	46	OR	4H	2W	
30.48	32.00	1.52	1.52	100	0.00	0	OR	4H	3W	
32.00	33.53	1.53	0.97	63	0.12	8	OR	4H	3W	
33.53	35.05	1.52	1.11	73	0.72	47	OR	4H	2W	
35.05	36.58	1.53	1.04	68	0.61	40	OR	4H	2W	
36.58	38.10	1.52	1.52	100	0.73	48	OR	4H	2W	
38.10	39.62	1.52	1.18	78	1.12	74	OR	4H	1W	
39.62	41.15	1.53	1.38	90	0.29	19	OR	4H	2W	
41.15	42.67	1.52	0.85	56	0.00	0	OR	4H	2W	
42.67	44.20	1.53	1.16	76	0.12	8	OR	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.20	45.72	1.52	1.06	70	0.44	29	OR	4H	3W	
45.72	47.24	1.52	1.29	85	0.19	13	OR	4H	3W	
47.24	48.77	1.53	1.45	95	0.52	34	OR	4H	2W	
48.77	50.29	1.52	1.46	96	0.44	29	OR	4H	3W	
50.29	51.82	1.53	1.17	76	0.00	0	OR	4H	4W	
51.82	53.34	1.52	1.23	81	0.54	36	OR	4H	4W	
53.34	54.86	1.52	0.79	52	0.37	24	OR	4H	2W	
54.86	56.39	1.53	1.53	100	0.31	20	OR	4H	3W	
56.39	57.91	1.52	1.39	91	0.81	53	OR	4H	2W	
57.91	59.44	1.53	0.98	64	0.29	19	OR	4H	3W	
59.44	60.96	1.52	1.52	100	0.62	41	OR	4H	3W	
60.96	62.48	1.52	1.52	100	1.46	96	OR	4H	2W	
62.48	64.01	1.53	1.43	93	0.99	65	OR	4H	1W	
64.01	65.53	1.52	1.35	89	0.95	63	OR	4H	1W	
65.53	67.06	1.53	1.38	90	0.93	61	OR	4H	1W	
67.06	68.58	1.52	1.36	89	0.78	51	OR	4H	1W	
68.58	70.10	1.52	1.28	84	0.79	52	OR	4H	2W	
70.10	71.63	1.53	1.47	96	0.92	60	OR	4H	1W	
71.63	73.15	1.52	1.46	96	0.84	55	OR	4H	1W	
73.15	74.68	1.53	1.43	93	0.96	63	OR	4H	1W	
74.68	76.20	1.52	1.52	100	1.30	86	4R	4H	1W	
76.20	77.72	1.52	1.52	100	1.24	82	4R	4H	1W	
77.72	79.25	1.53	1.34	88	0.42	27	4R	4H	2W	
79.25	80.77	1.52	1.08	71	0.43	28	4R	3H	1W	
80.77	82.30	1.53	1.52	99	0.69	45	4R	3H	1W	
82.30	83.82	1.52	1.52	100	0.90	59	4R	3H	1W	
83.82	85.34	1.52	1.13	74	0.82	54	4R	3H	2W	
85.34	86.87	1.53	1.33	87	0.76	50	4R	4H	2W	
86.87	88.39	1.52	1.26	83	0.65	43	4R	3H	1W	
88.39	89.92	1.53	1.42	93	1.19	78	4R	3H	1W	
89.92	91.44	1.52	1.52	100	1.05	69	3R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
91.44	92.96	1.52	1.16	76	0.66	43	4R	4H	1W	
92.96	94.49	1.53	1.4	92	0.77	50	4R	4H	1W	
94.49	96.01	1.52	1.29	85	0.58	38	4R	4H	2W	
96.01	97.54	1.53	0.88	58	0.00	0	4R	4H	1W	
97.54	99.06	1.52	1.22	80	0.39	26	4R	4H	1W	
99.06	100.58	1.52	1.52	100	1.27	84	4R	3H	1W	
100.58	102.11	1.53	1.02	67	0.58	38	4R	3H	1W	
102.11	103.63	1.52	1.4	92	0.49	32	4R	4H	1W	
103.63	105.16	1.53	1.27	83	0.18	12	4R	3H	2W	
105.16	106.68	1.52	0.93	61	0.10	7	4R	3H	2W	
106.68	108.20	1.52	1.25	82	0.56	37	4R	3H	2W	
108.20	109.73	1.53	1.4	92	0.20	13	4R	3H	2W	
109.73	111.25	1.52	1.2	79	0.00	0	4R	3H	2W	
111.25	112.78	1.53	1.2	78	0.26	17	4R	4H	1W	
112.78	114.30	1.52	1.52	100	0.66	43	4R	4H	2W	
114.30	115.82	1.52	1.46	96	0.80	53	4R	5H	1W	
115.82	117.35	1.53	1.15	75	0.49	32	4R	4H	1W	
117.35	118.87	1.52	1.43	94	1.13	74	4R	4H	1W	
118.87	120.40	1.53	1.53	100	0.65	42	3R	4H	2W	
120.40	121.92	1.52	1.52	100	1.22	80	4R	4H	1W	
121.92	123.44	1.52	1.35	89	0.49	32	4R	4H	1W	
123.44	124.97	1.53	1.53	100	1.12	73	4R	4H	1W	
124.97	126.49	1.52	1.47	97	0.75	49	4R	3H	3W	
126.49	128.02	1.53	1.37	90	0.81	53	4R	4H	3W	
128.02	129.54	1.52	1.22	80	1.02	67	4R	4H	1W	
129.54	131.06	1.52	1.52	100	1.46	96	3R	3H	2W	
131.06	132.59	1.53	1.42	93	1.36	89	4R	3H	2W	
132.59	134.11	1.52	1.44	95	0.89	59	4R	3H	2W	
134.11	135.64	1.53	1.37	90	0.92	60	3R	3H	2W	
135.64	137.16	1.52	1.28	84	0.96	63	4R	4H	2W	
137.16	138.69	1.53	1.4	92	0.66	43	4R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
138.69	140.21	1.52	1.41	93	1.21	80	4R	3H	3W	
140.21	141.73	1.52	1.52	100	0.97	64	4R	4H	3W	
141.73	143.26	1.53	1.36	89	1.36	89	4R	4H	2W	
143.26	144.78	1.52	1.31	86	0.45	30	4R	3H	2W	
144.78	146.30	1.52	1.52	100	1.28	84	4R	3H	1W	
146.30	147.83	1.53	1.53	100	1.52	99	4R	3H	1W	
147.83	149.35	1.52	1.41	93	0.85	56	4R	3H	1W	
149.35	150.88	1.53	1.46	95	0.81	53	4R	3H	1W	
150.88	152.40	1.52	1.52	100	1.13	74	4R	3H	1W	
152.40	153.92	1.52	1.43	94	1.30	86	3R	3H	1W	
153.92	155.45	1.53	1.45	95	1.35	88	3R	3H	1W	
155.45	156.97	1.52	1.52	100	1.25	82	3R	3H	1W	
156.97	158.50	1.53	1.53	100	0.76	50	3R	3H	1W	
158.50	160.02	1.52	1.52	100	0.13	9	3R	3H	1W	
160.02	161.54	1.52	1.43	94	0.97	64	1R	3H	1W	
161.54	163.07	1.53	1.53	100	0.56	37	1R	3H	1W	
163.07	164.59	1.52	1.39	91	1.01	66	3R	3H	1W	
164.59	166.12	1.53	1.53	100	1.19	78	2R	3H	1W	
166.12	167.64	1.52	1.44	95	0.91	60	2R	3H	1W	
167.64	169.16	1.52	1.49	98	0.56	37	2R	3H	1W	
169.16	170.69	1.53	1.53	100	0.79	52	3R	3H	1W	
170.69	172.21	1.52	1.25	82	0.68	45	4R	3H	1W	
172.21	173.74	1.53	1.53	100	0.73	48	4R	3H	1W	
173.74	175.26	1.52	1.42	93	0.96	63	4R	3H	1W	
175.26	176.78	1.52	1.41	93	0.33	22	4R	3H	1W	
176.78	178.31	1.53	1.53	100	1.14	75	2R	3H	1W	
178.31	179.83	1.52	1.32	87	1.27	84	2R	3H	1W	
179.83	181.36	1.53	1.53	100	0.88	58	2R	3H	1W	
181.36	182.88	1.52	1.43	94	1.13	74	3R	3H	1W	
182.88	184.40	1.52	1.52	100	1.43	94	4R	3H	1W	
184.40	185.93	1.53	1.46	95	1.06	69	4R	3H	1W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
185.93	187.45	1.52	1.5	99	1.50	99	2R	3H	1W	
187.45	188.98	1.53	1.53	100	1.53	100	2R	3H	1W	
188.98	190.50	1.52	1.52	100	1.52	100	2R	3H	1W	
190.50	192.02	1.52	1.3	86	1.27	84	2R	3H	1W	
192.02	193.55	1.53	1.32	86	0.90	59	2R	3H	1W	
193.55	195.07	1.52	1.52	100	0.44	29	2R	3H	1W	
195.07	196.60	1.53	1.34	88	0.98	64	0R	3H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K306737	12-046	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306750	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306916	12-069	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306920	12-069	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M666595	12-050	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M667452	12-050	B	P3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K306731	12-046	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.52	4.57	3.05	DMT, OVB	2.15	70	M666590	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.57	7.62	3.05	DMT	2.19	72	M666591	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.62	10.67	3.05	DMT	2.37	78	M666592	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.67	13.72	3.05	DMT	2.57	84	M666593	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.72	16.00	2.28	DMT	2.00	88	M666594	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.00	17.14	1.14	DMT	0.74	65	M666596	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.14	19.81	2.67	DMT, SLT	1.78	67	M666597	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.81	22.86	3.05	SLT	2.40	79	M666598	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.86	25.91	3.05	SLT	2.44	80	M666599	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.91	27.72	1.81	SLT	1.60	88	K306723	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27.72	30.48	2.76	SLT, DST	2.20	80	K306724	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30.48	33.53	3.05	DST	2.49	82	K306725	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33.53	36.58	3.05	DST	2.15	70	K306726	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33.53	36.58	3.05	DST	2.15	70	K306727	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
36.58	39.62	3.04	DST	2.70	89	K306728	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.62	42.67	3.05	DST	2.23	73	K306729	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42.67	45.72	3.05	DST	2.22	73	K306730	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45.72	48.77	3.05	DST	2.74	90	K306732	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48.77	51.82	3.05	DST	2.63	86	K306733	12-046	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51.82	54.86	3.04	DST	2.02	66	K306734	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
54.86	57.91	3.05	DST	2.92	96	K306735	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.91	60.70	2.79	DST	2.33	84	K306736	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.70	62.48	1.78	DST	1.78	100	K306738	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
62.48	65.53	3.05	DST	2.78	91	K306739	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
65.53	68.58	3.05	DST	2.74	90	K306740	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
68.58	71.63	3.05	DST	2.75	90	K306741	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
68.58	71.63	3.05	DST	2.75	90	K306742	12-046	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
71.63	74.68	3.05	DST	2.89	95	K306743	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
74.68	77.72	3.04	DST	3.04	100	K306744	12-046	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
77.72	80.77	3.05	DST, LST	2.42	79	K306745	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
80.77	83.82	3.05	LST	3.04	100	K306746	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
83.82	86.87	3.05	LST	2.46	81	K306747	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
86.87	89.92	3.05	LST	2.68	88	K306748	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
89.92	92.96	3.04	LST	2.68	88	K306749	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
92.96	96.01	3.05	LST	2.69	88	K306901	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96.01	99.06	3.05	LST	2.10	69	K306902	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.06	102.11	3.05	LST	2.54	83	K306903	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.06	102.11	3.05	LST	2.54	83	K306904	12-069	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
102.11	104.46	2.35	LST	2.22	94	K306905	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
104.46	106.68	2.22	LST	1.81	82	K306906	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
106.68	109.73	3.05	LST	2.65	87	K306907	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
109.73	112.78	3.05	LST	2.40	79	K306908	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
112.78	114.10	1.32	LST	1.32	100	K306909	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.10	115.82	1.72	LST	1.70	99	K306910	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
115.82	118.87	3.05	LST	2.58	85	K306911	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
118.87	121.92	3.05	LST	3.05	100	K306912	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
121.92	124.10	2.18	LST	2.18	100	K306913	12-069	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.10	124.97	0.87	LST	0.87	100	K306914	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.97	126.49	1.52	LST	1.47	97	K306915	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
126.49	129.54	3.05	LST	2.59	85	K306917	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
129.54	132.59	3.05	LST	2.94	96	K306918	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
132.59	134.11	1.52	LST	1.50	99	K306919	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
134.11	135.00	0.89	LST	0.89	100	K306921	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
135.00	137.16	2.16	LST	2.10	97	K306922	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
135.00	137.16	2.16	LST	2.10	97	K306923	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
137.16	140.21	3.05	LST	2.81	92	K306924	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140.21	143.26	3.05	LST	2.88	94	K306925	12-069	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
143.26	144.78	1.52	LST	1.52	100	M666600	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
144.78	146.30	1.52	LST	1.52	100	M667451	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
146.30	148.20	1.90	LST	1.86	98	M667453	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
148.20	150.88	2.68	LST	2.56	96	M667454	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150.88	153.92	3.04	LST	2.89	95	M667455	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150.88	153.92	3.04	LST	2.99	98	M667456	12-050	B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
153.92	156.97	3.05	LST	2.98	98	M667457	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
156.97	160.02	3.05	LST	3.05	100	M667458	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160.02	163.07	3.05	LST	3.05	100	M667459	12-050	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
163.07	166.12	3.05	LST	2.92	96	M667460	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
166.12	169.16	3.04	LST	2.83	93	M667461	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
169.16	172.21	3.05	LST	2.78	91	M667462	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172.21	173.74	1.53	LST	1.53	100	M667463	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
173.74	176.78	3.04	LST	2.83	93	M667464	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
176.78	178.31	1.53	LST	1.50	98	M667465	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
178.31	180.73	2.42	LST	2.10	87	M667466	12-074	?	P3A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180.73	182.88	2.15	LST	1.96	91	M667467	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
182.88	185.15	2.27	LST	2.20	97	M667468	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
185.15	187.45	2.30	LST	2.18	95	M667469	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
187.45	190.50	3.05	LST	3.05	100	M667470	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
190.50	192.89	2.39	LST	2.28	95	M667471	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.89	195.07	2.18	LST	1.74	80	M667472	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
195.07	196.60	1.53	LST	1.45	95	M667483	12-074	?		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		628678	7112017	1631.87	505.53

**ZONE:** Isis

**SECTION:** \_\_\_\_\_

**HOLE: OS -12-189**

**CLAIM:** Sten 42

**Contractor:** Superior

**Drill:** 5

**Core Size:** HQ-NQ

**Casing Depth:** 4.57m, Out

**Drilling Dates:** Aug 28 - Sep 07, 2012

**Geology Logged By:** K. Unger

SURVEY			
Depth (m)	Azimuth	Dip	Method
135.94	52.02	-47.8	Reflex
501.7	52.12	-47.8	Reflex

**TARGET:** Mineralization on Isis

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.44	0.44	OVb
0.44	171.25	170.81	LST
171.25	181.42	10.17	DMT
181.42	239.84	58.42	DMT
239.84	288.99	49.15	DST
288.99	505.53	216.54	SLT

SAMPLES	
Numbers:	M396325 to M396350, M396763 to M396784, M398701 to M398829, N830325 to N830337
Total:	190
Batch:	321, 342, 343, 348, 353, 358, C10
Certificates:	WH12205419, WH12210579, WH12210691, WH12212357, WH12213684, WH12213685, WH12216665

COMMENTS
Hole shutdown because the rock was no longer mineralized and the hole condition was poor

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.44	0.44	OVB	--	Overburden, no recovery	--	--	--	--	--	--	0
0.44	171.25	170.81	LST	MG	Interbedded limestone & siltstone.							
						LT	GY	BD	---	--	--	0
171.25	181.42	10.17	DMT	CG	Medium to light grey, diamictite LST. Rounded clasts of polymictic LST up to 8.5 cm wide, variably matrix to clast supported with bands of coarse sand-fine gravel made up of calcareous and siliciclastic grains within variably reactive, dark grey to black FG matrix.							
						LT	GY					
						MD	GY	DB	---	--	--	0
181.42	239.84	58.42	DMT	CG	Dark grey to green, interbedded diamictite with sands and green-grey SLT. DMT increases with depth, with clasts of angular to sub-angular, matrix supported clasts up to 48 cm in size supported in a variably calcareous dark grey matrix. Clasts are variably made up of grey carbonate and green to black SLC rock.							
						MD	GN					
						DK	GY	DB	---	--	--	0
239.84	288.99	49.15	DST	CG	Grey, variably cBX dolostone with scattered rudstone textures. Core is typically bedded to laminated with dark, narrow interbeds. Fractures hosting arsenic sulphide minerals scattered throughout.							
						MD	GY				Re	0.1
						LT	GY	BD	---	--	Om	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
288.99	505.53	216.54	SLT	FG	Thinly bedded to laminated, dark grey silts and light grey silicious sands. Bedding is typically undulate with minor sections (<10%) of core where BD is sheared/convolute. SIL alteration is preferential to zones of deformed core with white, irregular Qz stringers and blebs. Rare patches of gouge up to 25 cm wide are intermittently seen, hosting blebby orpiment. Trace realgar and orpiment are present as fracture fills scattered throughout. Pyrite is present as fine disseminations visible with hand lens in dark grey silty interbeds. Bedding angles are poor, near parallel to core axis for much of unit.							
											Om	0.01
											Qz	1
						DK	GY				Re	0.01
						MD	GY	BD	SIL	3I	Py	0.1



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.44	0.44	0	0	0.00	0	--	--	--	Overburden/casing, no recovery
0.44	0.61	0.17	0.17	100	0.00	0	4R	1H	4W	
0.61	2.13	1.52	0.99	65	0.00	0	4R	2H	4W	
2.13	3.66	1.53	0.96	63	0.00	0	4R	3H	3W	
3.66	5.18	1.52	1.4	92	0.37	24	4R	3H	3W	
5.18	6.71	1.53	0.97	63	0.11	7	4R	3H	2W	
6.71	8.23	1.52	1.25	82	0.16	11	4R	3H	2W	
8.23	9.75	1.52	1.3	86	0.00	0	4R	3H	2W	
9.75	11.28	1.53	1.53	100	0.79	52	4R	3H	2W	
11.28	12.80	1.52	1.26	83	0.16	11	4R	3H	2W	
12.80	14.33	1.53	1.48	97	0.78	51	4R	3H	2W	
14.33	15.85	1.52	1.38	91	0.30	20	4R	3H	2W	
15.85	17.37	1.52	1.08	71	0.00	0	4R	3H	2W	
17.37	18.90	1.53	0.95	62	0.11	7	4R	3H	2W	
18.90	20.42	1.52	1.27	84	0.00	0	4R	3H	2W	
20.42	21.95	1.53	1.41	92	0.11	7	4R	3H	2W	
21.95	23.47	1.52	1.39	91	0.00	0	4R	3H	2W	
23.47	24.99	1.52	0.98	64	0.14	9	4R	3H	2W	
24.99	26.52	1.53	1.17	76	0.18	12	4R	3H	2W	
26.52	28.04	1.52	1.46	96	0.00	0	4R	3H	2W	
28.04	29.57	1.53	1.36	89	0.44	29	4R	3H	2W	
29.57	31.09	1.52	1.44	95	0.87	57	4R	3H	2W	
31.09	32.61	1.52	1.37	90	0.78	51	4R	3H	2W	
32.61	34.14	1.53	1.5	98	0.69	45	4R	3H	3W	
34.14	35.66	1.52	1.46	96	0.59	39	4R	3H	2W	
35.66	37.19	1.53	1.08	71	0.00	0	4R	3H	2W	
37.19	38.71	1.52	1.41	93	0.24	16	4R	3H	3W	
38.71	40.23	1.52	1.19	78	0.00	0	4R	4H	2W	
40.23	41.76	1.53	1.16	76	0.21	14	4R	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
41.76	43.28	1.52	1.36	89	0.64	42	4R	3H	3W	
43.28	44.81	1.53	1.33	87	1.04	68	4R	3H	2W	
44.81	46.33	1.52	1.38	91	0.58	38	4R	3H	2W	
46.33	47.85	1.52	1.43	94	0.91	60	4R	4H	3W	
47.85	49.38	1.53	1.26	82	0.38	25	3R	3H	3W	
49.38	50.90	1.52	1.36	89	0.00	0	2R	4H	3W	
50.90	52.43	1.53	0.97	63	0.11	7	2R	3H	3W	
52.43	53.95	1.52	1.17	77	0.00	0	3R	3H	2W	
53.95	55.47	1.52	1.09	72	0.00	0	3R	3H	3W	
55.47	57.00	1.53	1.27	83	0.28	18	4R	3H	3W	
57.00	58.52	1.52	0.99	65	0.00	0	4R	4H	3W	
58.52	60.05	1.53	1.33	87	0.36	24	4R	3H	2W	
60.05	61.57	1.52	1.26	83	0.47	31	4R	3H	2W	
61.57	63.09	1.52	1.48	97	0.18	12	4R	3H	3W	
63.09	64.62	1.53	1.37	90	0.48	31	4R	3H	2W	
64.62	66.14	1.52	1.49	98	0.00	0	4R	3H	3W	
66.14	67.67	1.53	1.41	92	0.93	61	4R	3H	2W	
67.67	69.19	1.52	1.52	100	0.13	9	4R	3H	3W	
69.19	70.71	1.52	1.12	74	0.00	0	4R	3H	2W	
70.71	72.24	1.53	1.33	87	0.38	25	4R	3H	2W	
72.24	73.76	1.52	1.33	88	0.68	45	4R	3H	3W	
73.76	75.29	1.53	1.47	96	0.98	64	4R	3H	3W	
75.29	76.81	1.52	1.4	92	0.35	23	4R	3H	4W	
76.81	78.33	1.52	1.36	89	0.74	49	3R	3H	4W	
78.33	79.86	1.53	1.39	91	0.36	24	3R	3H	2W	
79.86	81.38	1.52	1.26	83	0.13	9	3R	3H	3W	
81.38	82.90	1.52	1.25	82	0.84	55	4R	3H	4W	
82.90	84.43	1.53	1.45	95	0.87	57	4R	3H	3W	
84.43	85.95	1.52	1.43	94	1.11	73	4R	1H	3W	
85.95	87.48	1.53	1.46	95	0.28	18	4R	3H	3W	
87.48	89.00	1.52	1.42	93	0.75	49	4R	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
89.00	90.53	1.53	1.4	92	0.79	52	4R	3H	2W	
90.53	92.05	1.52	1.52	100	0.50	33	4R	3H	3W	
92.05	93.57	1.52	1.5	99	0.71	47	4R	3H	3W	
93.57	95.10	1.53	1.36	89	0.87	57	4R	3H	2W	
95.10	96.62	1.52	1.52	100	0.77	51	4R	3H	3W	
96.62	98.15	1.53	1.37	90	1.07	70	4R	3H	4W	
98.15	99.67	1.52	1.46	96	0.73	48	4R	3H	2W	
99.67	101.19	1.52	1.23	81	0.94	62	4R	3H	4W	
101.19	102.72	1.53	1.52	99	0.44	29	4R	3H	4W	
102.72	104.24	1.52	1.43	94	0.66	43	4R	3H	2W	
104.24	105.77	1.53	1.38	90	1.00	65	4R	3H	2W	
105.77	107.29	1.52	1.32	87	0.32	21	3R	3H	2W	
107.29	108.81	1.52	1.52	100	0.85	56	4R	3H	2W	
108.81	110.34	1.53	1.51	99	0.88	58	4R	3H	3W	
110.34	111.86	1.52	1.5	99	1.34	88	4R	4H	2W	
111.86	113.90	2.04	2.04	100	1.15	56	4R	3H	2W	
113.90	115.00	1.10	1.1	100	0.28	25	3R	3H	2W	
115.00	117.65	2.65	2.29	86	1.32	50	4R	3H	2W	
117.65	120.70	3.05	2.89	95	1.79	59	2R	3H	2W	
120.70	123.75	3.05	2.56	84	0.98	32	4R	3H	2W	
123.75	126.80	3.05	2.69	88	1.15	38	4R	3H	2W	
126.80	129.84	3.04	2.71	89	0.71	23	4R	3H	2W	
129.84	132.89	3.05	2.85	93	1.03	34	4R	3H	2W	
132.89	135.94	3.05	2.84	93	1.11	36	4R	3H	2W	
135.94	138.99	3.05	2.21	72	0.91	30	4R	2H	2W	
138.99	142.04	3.05	2.28	75	1.09	36	4R	4H	2W	
142.04	145.08	3.04	2.72	89	1.00	33	4R	3H	2W	
145.08	148.13	3.05	2.84	93	2.03	67	4R	4H	2W	
148.13	151.18	3.05	2.9	95	1.37	45	4R	3H	2W	
151.18	154.23	3.05	2.81	92	1.86	61	4R	4H	2W	
154.23	157.28	3.05	2.93	96	2.24	73	4R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
157.28	160.32	3.04	2.95	97	1.23	40	4R	3H	1W	
160.32	163.37	3.05	2.92	96	2.01	66	4R	4H	1W	
163.37	166.42	3.05	2.96	97	2.69	88	4R	4H	1W	
166.42	169.47	3.05	2.89	95	2.55	84	4R	3H	2W	
169.47	172.52	3.05	2.77	91	1.66	54	4R	3H	2W	
172.52	175.56	3.04	2.88	95	1.98	65	4R	4H	2W	
175.56	178.61	3.05	2.93	96	2.71	89	0R	4H	2W	
178.61	181.66	3.05	2.97	97	1.93	63	1R	3H	2W	
181.66	184.71	3.05	2.96	97	2.72	89	0R	3H	2W	
184.71	187.76	3.05	3.02	99	1.74	57	4R	4H	1W	
187.76	190.80	3.04	2.96	97	2.61	86	0R	3H	1W	
190.80	193.85	3.05	2.99	98	1.73	57	4R	3H	1W	
193.85	196.90	3.05	2.71	89	2.86	94	4R	4H	2W	
196.90	199.95	3.05	2.95	97	1.45	48	0R	2H	2W	
199.95	203.00	3.05	2.83	93	1.39	46	2R	2H	1W	
203.00	206.04	3.04	2.88	95	2.29	75	0R	2H	1W	
206.04	209.09	3.05	2.85	93	2.44	80	4R	4H	1W	
209.09	212.14	3.05	2.99	98	2.38	78	0R	2H	1W	
212.14	215.19	3.05	2.93	96	2.10	69	4R	4H	2W	
215.19	218.24	3.05	2.49	82	1.90	62	0R	2H	1W	
218.24	221.28	3.04	2.95	97	2.61	86	3R	4H	1W	
221.28	224.33	3.05	2.84	93	1.90	62	4R	3H	2W	
224.33	227.38	3.05	3.02	99	2.88	94	4R	3H	1W	
227.38	230.43	3.05	2.97	97	2.90	95	4R	4H	1W	
230.43	233.48	3.05	3.05	100	2.93	96	4R	3H	2W	
233.48	236.52	3.04	2.8	92	1.95	64	0R	4H	2W	
236.52	239.57	3.05	3.02	99	2.49	82	0R	3H	2W	
239.57	242.62	3.05	3.02	99	2.48	81	0R	2H	2W	
242.62	245.67	3.05	3.03	99	1.92	63	0R	4H	2W	
245.67	248.72	3.05	2.81	92	1.72	56	0R	4H	2W	
248.72	251.76	3.04	2.32	76	1.08	36	0R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
251.76	254.81	3.05	2.39	78	0.88	29	OR	4H	2W	
254.81	257.86	3.05	2.75	90	1.67	55	OR	4H	2W	
257.86	260.90	3.04	2.9	95	2.07	68	OR	4H	2W	
260.90	263.95	3.05	2.93	96	2.09	69	OR	5H	2W	
263.95	267.00	3.05	2.87	94	2.19	72	OR	3H	2W	
267.00	270.05	3.05	2.09	69	0.65	21	OR	4H	2W	
270.05	273.10	3.05	2.26	74	0.37	12	OR	4H	2W	
273.10	276.15	3.05	2.48	81	1.15	38	OR	3H	2W	
276.15	279.20	3.05	2.66	87	0.89	29	OR	4H	2W	
279.20	282.24	3.04	2.55	84	1.29	42	OR	3H	2W	
282.24	285.29	3.05	2.73	90	1.33	44	OR	4H	2W	
285.29	288.34	3.05	2.55	84	1.20	39	OR	4H	2W	
288.34	291.39	3.05	2.91	95	1.69	55	OR	3H	1W	
291.39	294.44	3.05	2.92	96	1.50	49	OR	3H	2W	
294.44	297.48	3.04	2.98	98	2.35	77	OR	3H	2W	
297.48	300.53	3.05	2.9	95	1.96	64	OR	3H	1W	
300.53	303.58	3.05	2.9	95	1.96	64	OR	4H	1W	
303.58	306.63	3.05	2.96	97	2.08	68	OR	3H	1W	
306.63	309.68	3.05	2.98	98	2.35	77	OR	3H	1W	
309.68	312.72	3.04	3.04	100	2.99	98	OR	3H	1W	
312.72	315.77	3.05	3.04	100	2.77	91	OR	3H	1W	
315.77	318.82	3.05	3.05	100	2.78	91	OR	3H	1W	
318.82	321.87	3.05	3.04	100	2.84	93	OR	3H	1W	
321.87	324.92	3.05	2.98	98	2.94	96	OR	4H	1W	
324.92	327.96	3.04	3.02	99	2.37	78	OR	4H	1W	
327.96	331.01	3.05	2.98	98	2.71	89	OR	4H	1W	
331.01	334.06	3.05	2.95	97	2.25	74	OR	4H	1W	
334.06	337.11	3.05	2.93	96	2.83	93	OR	4H	1W	
337.11	340.16	3.05	2.91	95	2.33	76	OR	4H	1W	
340.16	343.20	3.04	2.98	98	2.63	87	OR	3H	1W	
343.20	346.25	3.05	3	98	2.70	89	OR	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
346.25	349.30	3.05	3.01	99	2.70	89	OR	4H	1W	
349.30	352.35	3.05	2.65	87	1.43	47	OR	4H	1W	
352.35	355.39	3.04	2.96	97	1.95	64	OR	3H	1W	
355.39	358.44	3.05	2.98	98	1.50	49	OR	3H	1W	
358.44	361.49	3.05	2.37	78	1.62	53	OR	4H	1W	
361.49	364.54	3.05	3.04	100	2.60	85	OR	3H	1W	
364.54	367.59	3.05	2.95	97	1.41	46	OR	3H	1W	
367.59	370.64	3.05	2.54	83	0.98	32	OR	3H	1W	
370.64	373.68	3.04	2.82	93	1.23	40	OR	3H	1W	
373.68	376.73	3.05	2.75	90	2.02	66	OR	3H	1W	
376.73	379.78	3.05	2.94	96	1.63	53	OR	3H	1W	
379.78	382.83	3.05	2.32	76	2.17	71	OR	3H	1W	
382.83	385.88	3.05	2.82	92	1.41	46	OR	3H	1W	
385.88	388.92	3.04	2.88	95	0.91	30	OR	3H	3W	
388.92	391.97	3.05	2.37	78	0.61	20	OR	3H	1W	
391.97	395.02	3.05	2.83	93	0.80	26	OR	3H	1W	
395.02	398.07	3.05	2.62	86	1.68	55	OR	3H	1W	
398.07	401.12	3.05	2.43	80	0.98	32	OR	3H	1W	
401.12	404.16	3.04	2.7	89	0.67	22	OR	3H	1W	
404.16	407.21	3.05	2.3	75	0.81	27	OR	3H	1W	
407.21	410.26	3.05	2.9	95	1.54	50	OR	3H	1W	
410.26	413.31	3.05	2.47	81	1.27	42	OR	3H	1W	
413.31	416.36	3.05	2.6	85	1.34	44	OR	3H	1W	
416.36	419.40	3.04	3.02	99	2.18	72	OR	3H	1W	
419.40	422.45	3.05	2.84	93	1.08	35	OR	3H	1W	
422.45	425.50	3.05	2.15	70	0.89	29	OR	3H	1W	
425.50	428.55	3.05	2.89	95	1.20	39	OR	3H	1W	
428.55	431.60	3.05	2.97	97	2.56	84	OR	2H	1W	
431.60	434.64	3.04	2.91	96	2.45	81	OR	3H	1W	
434.64	437.69	3.05	0.32	10	0.00	0	OR	2H	1W	
437.69	440.74	3.05	1.46	48	0.35	11	OR	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
440.74	443.79	3.05	2.1	69	0.63	21	0R	2H	1W	
443.79	446.84	3.05	1.92	63	0.73	24	1R	3H	1W	
446.84	449.88	3.04	2.85	94	1.92	63	1R	3H	1W	
449.88	452.93	3.05	2.93	96	2.66	87	1R	3H	1W	
452.93	455.98	3.05	2.9	95	2.25	74	1R	3H	1W	
455.98	459.03	3.05	2.59	85	0.74	24	1R	3H	1W	
459.03	462.08	3.05	3.03	99	2.57	84	1R	4H	1W	
462.08	465.12	3.04	3.01	99	2.98	98	1R	4H	1W	
465.12	468.17	3.05	2.97	97	2.81	92	1R	3H	1W	
468.17	471.22	3.05	2.98	98	1.41	46	3R	4H	1W	
471.22	474.27	3.05	2.67	88	1.98	65	3R	4H	1W	
474.27	477.32	3.05	3.04	100	2.42	79	2R	4H	1W	
477.32	480.36	3.04	2.98	98	2.00	66	2R	5H	1W	
480.36	483.41	3.05	3.04	100	2.74	90	2R	5H	1W	
483.41	486.46	3.05	3.02	99	2.82	92	2R	5H	1W	
486.46	489.51	3.05	2.95	97	2.34	77	2R	4H	1W	
489.51	492.56	3.05	2.93	96	2.30	75	2R	4H	1W	
492.56	495.60	3.04	3	99	2.05	67	2R	5H	1W	
495.60	498.65	3.05	2.83	93	2.17	71	2R	4H	1W	
498.65	501.70	3.05	3.02	99	2.50	82	0R	3H	1W	
501.70	504.75	3.05	2.86	94	2.39	78	0R	3H	1W	
504.75	505.53	0.78	0.77	99	0.57	73	0R	3H	1W	EOH

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398750	12-348		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398827	12-358	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398810	12-358	B	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398805	12-358	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398792	12-353		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398787	12-353			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398776	12-353		15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396328	12-321		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398761	12-348			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398748	12-348			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398738	12-348		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398727	12-342	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398715	12-342	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398711	12-342	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398701	12-342	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396769	12-343			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396343	12-321		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396332	12-321			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398774	12-353			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.44	2.13	1.69	LST, OVB	1.16	69	M396325	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.13	5.18	3.05	LST	2.36	77	M396326	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.18	8.23	3.05	LST	2.22	73	M396327	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	11.28	3.05	LST	2.83	93	M396329	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	14.33	3.05	LST	2.74	90	M396330	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	LST	2.46	81	M396331	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	20.42	3.05	LST	2.22	73	M396333	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	23.47	3.05	LST	2.80	92	M396334	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
23.47	26.52	3.05	LST	2.15	70	M396335	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	29.57	3.05	LST	2.82	92	M396336	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	32.61	3.04	LST	2.81	92	M396337	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	35.66	3.05	LST	2.96	97	M396338	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	35.66	3.05	LST	2.96	97	M396339	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
35.66	38.71	3.05	LST	2.49	82	M396340	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.71	41.76	3.05	LST	2.35	77	M396341	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41.76	44.81	3.05	LST	2.69	88	M396342	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.81	47.85	3.04	LST	2.81	92	M396344	12-321			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47.85	50.90	3.05	LST	2.62	86	M396345	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.90	53.95	3.05	LST	2.14	70	M396346	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.95	57.00	3.05	LST	2.36	77	M396347	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.95	57.00	3.05	LST	2.36	77	M396348	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
57.00	60.05	3.05	LST	2.32	76	M396349	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60.05	63.09	3.04	LST	2.74	90	M396350	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63.09	66.14	3.05	LST	2.86	94	M398702	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66.14	69.19	3.05	LST	2.93	96	M398703	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69.19	70.71	1.52	LST	1.12	74	M398704	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70.71	73.76	3.05	LST	2.66	87	M398705	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73.76	76.81	3.05	LST	2.87	94	M398706	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76.81	79.86	3.05	LST	2.75	90	M398707	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79.86	82.90	3.04	LST	2.51	83	M398708	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82.90	85.95	3.05	LST	2.88	94	M398709	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.95	89.00	3.05	LST	2.88	94	M398710	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89.00	92.05	3.05	LST	2.92	96	M398712	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92.05	95.10	3.05	LST	2.86	94	M398713	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95.10	98.15	3.05	LST	2.89	95	M398714	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98.15	101.19	3.04	LST	2.69	88	M398716	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101.19	104.24	3.05	LST	3.04	100	M398717	12-342	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
104.24	107.29	3.05	LST	2.84	93	M398718	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
107.29	110.34	3.05	LST	3.05	100	M398719	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
110.34	113.39	3.05	LST	3.05	100	M398720	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
113.39	114.91	1.52	LST	1.50	99	M398721	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.91	117.65	2.74	LST	2.65	97	M398722	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.91	117.65	2.74	LST	2.65	97	M398723	12-342	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
117.65	120.70	3.05	LST	3.05	100	M398724	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
120.70	123.75	3.05	LST	3.05	100	M398725	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
123.75	126.80	3.05	LST	3.05	100	M398726	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
126.80	129.84	3.04	LST	3.04	100	M398728	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
129.84	132.89	3.05	LST	3.05	100	M398729	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
132.89	135.94	3.05	LST	3.05	100	M398730	12-342	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
135.94	138.99	3.05	LST	3.05	100	M398731	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
135.94	138.99	3.05	LST	3.05	100	M398732	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
138.99	142.04	3.05	LST	3.04	100	M398733	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142.04	145.08	3.04	LST	3.04	100	M398734	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
145.08	148.13	3.05	LST	2.92	96	M398735	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
148.13	151.18	3.05	LST	3.05	100	M398736	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
151.18	154.23	3.05	LST	3.05	100	M398737	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
154.23	157.28	3.05	LST	3.05	100	M398739	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
157.28	163.37	6.09	LST	5.87	96	N830325	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
163.37	169.47	6.10	LST	5.85	96	N830326	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
169.47	175.56	6.09	LST	5.65	93	N830327	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
175.56	181.42	5.86	DMT	5.68	97	N830328	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
181.42	184.71	3.29	DMT, DMT	3.26	99	N830329	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
184.71	190.80	6.09	DMT	5.98	98	N830330	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
190.80	196.80	6.00	DMT	5.70	95	N830331	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
196.80	203.00	6.20	DMT	5.78	93	N830332	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
203.00	209.09	6.09	DMT	5.73	94	N830333	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
209.09	215.19	6.10	DMT	5.92	97	N830334	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
215.19	221.28	6.09	DMT	5.44	89	N830335	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
221.28	227.38	6.10	DMT	5.86	96	N830336	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
227.38	233.48	6.10	DMT	6.02	99	N830337	12-C10	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
233.48	236.52	3.04	DMT	2.80	92	M398740	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
236.52	238.00	1.48	DMT	1.48	100	M398741	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
238.00	239.84	1.84	DMT	1.82	99	M398742	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
239.84	242.62	2.78	DST, DMT	2.78	100	M398743	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
242.62	245.67	3.05	DST	3.03	99	M398744	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
245.67	248.72	3.05	DST	2.81	92	M398745	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
248.72	251.76	3.04	DST	2.32	76	M398746	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
251.76	254.81	3.05	DST	2.39	78	M398747	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
254.81	257.86	3.05	DST	2.75	90	M398749	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
257.86	260.90	3.04	DST	2.90	95	M398751	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
260.90	263.95	3.05	DST	2.93	96	M398752	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
263.95	267.00	3.05	DST	2.87	94	M398753	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
267.00	270.05	3.05	DST	2.09	69	M398754	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
270.05	273.10	3.05	DST	2.26	74	M398755	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
273.10	276.15	3.05	DST	2.48	81	M398756	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
276.15	279.20	3.05	DST	2.66	87	M398757	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
276.15	279.20	3.05	DST	2.66	87	M398758	12-348		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
279.20	282.24	3.04	DST	2.25	74	M398759	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
282.24	285.07	2.83	DST	2.60	92	M398760	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
285.07	286.07	1.00	DST	0.94	94	M398762	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
286.07	288.99	2.92	DST	2.84	97	M398763	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
288.99	291.39	2.40	SLT, DST	2.35	98	M398764	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
291.39	294.44	3.05	SLT	2.92	96	M398765	12-348		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
294.44	297.48	3.04	SLT	2.98	98	M398766	12-348			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
297.48	300.53	3.05	SLT	2.90	95	M396763	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
300.53	303.58	3.05	SLT	2.90	95	M396764	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
303.58	306.63	3.05	SLT	2.96	97	M396765	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
306.63	309.68	3.05	SLT	2.98	98	M396766	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
309.68	312.72	3.04	SLT	3.04	100	M396767	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
309.68	312.72	3.04	SLT	3.04	100	M396768	12-343			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
312.72	315.77	3.05	SLT	3.04	100	M396770	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
315.77	318.82	3.05	SLT	3.05	100	M396771	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
318.82	321.87	3.05	SLT	3.04	100	M396772	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
321.87	324.92	3.05	SLT	2.98	98	M396773	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
324.92	327.96	3.04	SLT	3.02	99	M396774	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
327.96	331.01	3.05	SLT	2.98	98	M396775	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
331.01	334.06	3.05	SLT	2.95	97	M396776	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
334.06	337.11	3.05	SLT	2.93	96	M396777	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
337.11	340.16	3.05	SLT	2.91	95	M396778	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
340.16	343.20	3.04	SLT	2.98	98	M396779	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
343.20	346.25	3.05	SLT	3.00	98	M396780	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
346.25	349.30	3.05	SLT	3.01	99	M396781	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
349.30	352.35	3.05	SLT	2.65	87	M396782	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
352.35	355.40	3.05	SLT	2.96	97	M396783	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
355.40	358.44	3.04	SLT	2.89	95	M396784	12-343			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
358.44	361.49	3.05	SLT	2.37	78	M398767	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
361.49	364.54	3.05	SLT	3.04	100	M398768	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
364.54	367.59	3.05	SLT	2.95	97	M398769	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
367.59	370.00	2.41	SLT	2.41	100	M398770	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370.00	371.00	1.00	SLT	0.85	85	M398771	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
371.00	372.00	1.00	SLT	0.89	89	M398772	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
372.00	373.68	1.68	SLT	1.60	95	M398773	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
373.68	376.73	3.05	SLT	2.75	90	M398775	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
376.73	379.78	3.05	SLT	2.94	96	M398777	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
376.73	379.78	3.05	SLT	2.94	96	M398778	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
379.78	382.13	2.35	SLT	2.33	99	M398779	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
382.13	382.83	0.70	SLT	0.68	97	M398780	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
382.83	385.88	3.05	SLT	2.82	92	M398781	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
385.88	388.92	3.04	SLT	2.88	95	M398782	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
388.92	391.97	3.05	SLT	2.37	78	M398783	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
391.97	395.02	3.05	SLT	2.83	93	M398784	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
395.02	398.07	3.05	SLT	2.62	86	M398785	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
398.07	401.12	3.05	SLT	2.43	80	M398786	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
401.12	404.16	3.04	SLT	2.70	89	M398788	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
404.16	407.21	3.05	SLT	2.30	75	M398789	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
407.21	410.26	3.05	SLT	2.90	95	M398790	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
410.26	413.31	3.05	SLT	2.47	81	M398791	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
413.31	416.36	3.05	SLT	2.60	85	M398793	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
416.36	419.40	3.04	SLT	3.02	99	M398794	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
419.40	422.45	3.05	SLT	2.84	93	M398795	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
422.45	425.50	3.05	SLT	2.15	70	M398796	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
425.50	428.55	3.05	SLT	2.89	95	M398797	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
428.55	431.60	3.05	SLT	2.97	97	M398798	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
428.55	431.60	3.05	SLT	2.97	97	M398799	12-353			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
431.60	434.64	3.04	SLT	2.91	96	M398800	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
434.64	437.69	3.05	SLT	0.32	10	M398801	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
437.69	440.74	3.05	SLT	1.46	48	M398802	12-353			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
440.74	443.79	3.05	SLT	2.10	69	M398803	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
443.79	446.84	3.05	SLT	1.92	63	M398804	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
446.84	449.88	3.04	SLT	2.85	94	M398806	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
449.88	452.93	3.05	SLT	2.93	96	M398807	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
452.93	455.98	3.05	SLT	2.90	95	M398808	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
455.98	459.03	3.05	SLT	2.59	85	M398809	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
459.03	462.08	3.05	SLT	3.03	99	M398811	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
462.08	465.12	3.04	SLT	3.01	99	M398812	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
465.12	468.17	3.05	SLT	2.97	97	M398813	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
465.12	468.17	3.05	SLT	2.97	97	M398814	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
468.17	471.22	3.05	SLT	2.98	98	M398815	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
471.22	474.27	3.05	SLT	2.67	88	M398816	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
474.27	477.32	3.05	SLT	3.04	100	M398817	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
477.32	480.36	3.04	SLT	2.98	98	M398818	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
480.36	483.41	3.05	SLT	3.04	100	M398819	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
483.41	486.46	3.05	SLT	3.02	99	M398820	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
483.41	486.46	3.05	SLT	3.02	99	M398821	12-358	B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
486.46	489.51	3.05	SLT	2.95	97	M398822	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
489.51	492.56	3.05	SLT	2.93	96	M398823	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
492.56	495.60	3.04	SLT	3.00	99	M398824	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
495.60	498.65	3.05	SLT	2.83	93	M398825	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
498.65	501.70	3.05	SLT	3.02	99	M398826	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
501.70	504.75	3.05	SLT	2.86	94	M398828	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
504.75	505.53	0.78	SLT	0.77	99	M398829	12-358	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		630149	7112665	1549.7	492.86

**ZONE:** Conrad  
**SECTION:** C150E

**HOLE: OS -12-194**

**CLAIM:** Sten 22

Contractor: Superior

Drill: 6

Core Size: HQ

Casing Depth: 12.19m, Out

Drilling Dates: Sep 13 - Sep 20, 2012

Geology Logged By: I. Ames

SURVEY			
Depth (m)	Azimuth	Dip	Method
20.42	167.42	-87	Reflex
492.86	184.52	-86.6	Reflex

**TARGET:** SLC/LST contact and mineralization in SLC

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.03	2.03	OVB
2.03	8.23	6.2	OVB
8.23	50	41.77	MST
50	492.86	442.86	CGL

SAMPLES	
Numbers:	M398321 to M398350, M398501 to M398502, N830480 to N830494, N830499 to N830501, N830508 to N830515, N830601 to N830612,
Total:	100
Batch:	362, 373, C12, C13
Certificates:	WH12223867, WH12225405, WH12226811, WH12226813, WH12248137

COMMENTS
Hole shut down because it passed the target depth

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.03	2.03	OVB	--	No recovery.	--	--	--	--	--	--	0
2.03	8.23	6.20	OVB	FG	Rubby interval of highly oxidized overburden.	MD	BN	RB	OXI	5I	--	0
8.23	50.00	41.77	MST	VF	Extensively fractured nonad mudstone showing evidence of strain/shear (discontinuous/broken dolomite veinlets and highly sheared centimetric intervals). Transition into extensively faulted rock at 39.10 m.	LT	GY	SN	OXI	3I	--	0
50.00	492.86	442.86	CGL	VF	Interbedded starry night conglomerate (80%) and siltstone (20%).	LT	GY	BD	---	--	--	0



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.13	2.13	0	0	0.00	0	OR	--	--	
2.13	3.66	1.53	0.06	4	0.00	0	OR	2H	3W	
3.66	5.18	1.52	0.13	9	0.00	0	OR	2H	3W	
5.18	6.71	1.53	0.19	12	0.00	0	OR	2H	3W	
6.71	8.23	1.52	0.14	9	0.00	0	OR	2H	3W	
8.23	9.75	1.52	0.31	20	0.00	0	OR	2H	3W	
9.75	11.28	1.53	0.47	31	0.00	0	OR	3H	3W	
11.28	12.80	1.52	0.84	55	0.35	23	OR	2H	3W	
12.80	14.33	1.53	0.62	41	0.26	17	OR	3H	3W	
14.33	15.85	1.52	1.21	80	0.00	0	OR	3H	3W	
15.85	17.37	1.52	1.44	95	0.38	25	OR	3H	3W	
17.37	18.90	1.53	1.35	88	0.19	12	OR	3H	3W	
18.90	20.42	1.52	1.44	95	0.57	38	OR	3H	3W	
20.42	21.95	1.53	1.37	90	0.64	42	OR	3H	3W	
21.95	23.47	1.52	1.47	97	1.00	66	OR	3H	3W	
23.47	24.99	1.52	1.2	79	0.79	52	OR	3H	3W	
24.99	26.52	1.53	1.4	92	0.83	54	OR	3H	3W	
26.52	28.04	1.52	1.23	81	0.54	36	OR	3H	3W	
28.04	29.57	1.53	1.19	78	0.15	10	OR	3H	3W	
29.57	31.09	1.52	1.35	89	0.31	20	OR	3H	3W	
31.09	32.61	1.52	1.42	93	1.00	66	OR	3H	3W	
32.61	34.14	1.53	1.13	74	0.49	32	OR	3H	3W	
34.14	35.66	1.52	1.46	96	1.00	66	OR	3H	3W	
35.66	37.19	1.53	1.52	99	0.33	22	OR	3H	3W	
37.19	38.71	1.52	1.46	96	0.61	40	OR	3H	3W	
38.71	40.23	1.52	1.22	80	0.83	55	OR	3H	3W	
40.23	41.76	1.53	1.42	93	0.58	38	OR	3H	3W	
41.76	43.28	1.52	1.43	94	0.85	56	OR	3H	3W	
43.28	44.81	1.53	1.52	99	0.92	60	OR	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.37	90	0.55	36	OR	3H	3W	
46.33	47.85	1.52	1.27	84	0.60	39	OR	3H	3W	
47.85	49.38	1.53	1.1	72	0.81	53	OR	3H	3W	
49.38	50.90	1.52	1.33	88	1.22	80	OR	3H	3W	
50.90	52.43	1.53	1.24	81	0.68	44	OR	3H	3W	
52.43	53.95	1.52	1.27	84	0.53	35	OR	3H	3W	
53.95	55.47	1.52	1.48	97	1.28	84	OR	3H	3W	
55.47	57.00	1.53	1.47	96	1.07	70	OR	3H	3W	
57.00	58.52	1.52	1.52	100	1.40	92	OR	3H	3W	
58.52	60.05	1.53	1.53	100	1.53	100	1R	3H	3W	
60.05	61.57	1.52	1.33	88	0.96	63	OR	3H	1W	
61.57	63.09	1.52	1.47	97	1.30	86	OR	5H	1W	
63.09	64.62	1.53	1.53	100	1.08	71	OR	3H	1W	
64.62	66.75	2.13	2.13	100	1.35	63	OR	3H	1W	
66.75	69.19	2.44	2.08	85	1.64	67	OR	3H	1W	
69.19	72.24	3.05	2.66	87	1.34	44	OR	2H	1W	
72.24	75.29	3.05	2.79	91	1.75	57	3R	4H	1W	
75.29	78.33	3.04	2.47	81	0.39	13	3R	3H	1W	
78.33	81.38	3.05	2.49	82	1.07	35	3R	2H	1W	
81.38	84.43	3.05	3.03	99	2.29	75	3R	3H	1W	
84.43	87.48	3.05	2.95	97	2.83	93	OR	4H	1W	
87.48	90.53	3.05	3.02	99	2.34	77	OR	4H	1W	
90.53	93.57	3.04	2.86	94	2.29	75	OR	3H	1W	
93.57	96.62	3.05	3.05	100	2.71	89	OR	3H	1W	
96.62	99.67	3.05	2.99	98	2.54	83	OR	3H	1W	
99.67	102.72	3.05	2.83	93	2.53	83	OR	3H	1W	
102.72	105.77	3.05	3.05	100	2.82	92	OR	3H	1W	
105.77	108.81	3.04	1.92	63	0.67	22	OR	2H	1W	
108.81	111.86	3.05	2.68	88	1.45	48	OR	3H	1W	
111.86	114.91	3.05	2.81	92	2.24	73	OR	3H	1W	
114.91	117.96	3.05	2.71	89	2.16	71	OR	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
117.96	121.01	3.05	2.9	95	1.56	51	OR	3H	1W	
121.01	124.05	3.04	2.94	97	2.59	85	OR	2H	1W	
124.05	127.10	3.05	2.93	96	2.70	89	OR	2H	1W	
127.10	130.15	3.05	2.36	77	0.54	18	OR	2H	1W	
130.15	133.20	3.05	2.95	97	2.80	92	OR	2H	1W	
133.20	136.25	3.05	3.05	100	1.98	65	OR	3H	1W	
136.25	139.29	3.04	2.48	82	1.91	63	OR	4H	1W	
139.29	142.34	3.05	2.94	96	1.86	61	OR	5H	1W	
142.34	145.39	3.05	2.89	95	2.22	73	OR	5H	1W	
145.39	148.44	3.05	2.48	81	0.96	31	OR	5H	1W	
148.44	151.49	3.05	3.03	99	2.63	86	OR	4H	1W	
151.49	154.53	3.04	2.91	96	2.39	79	OR	3H	1W	
154.53	157.58	3.05	3.03	99	1.84	60	OR	3H	1W	
157.58	160.63	3.05	2.8	92	2.26	74	OR	3H	1W	
160.63	163.68	3.05	2.83	93	1.87	61	OR	3H	1W	
163.68	166.73	3.05	2.71	89	1.13	37	OR	3H	1W	
166.73	169.77	3.04	3.02	99	1.81	60	OR	3H	2W	
169.77	172.82	3.05	3.05	100	2.29	75	OR	3H	2W	
172.82	175.87	3.05	2.75	90	1.86	61	OR	3H	2W	
175.87	178.92	3.05	2.68	88	1.12	37	OR	3H	2W	
178.92	181.97	3.05	3	98	2.75	90	OR	3H	2W	
181.97	185.01	3.04	2.77	91	2.13	70	OR	3H	2W	
185.01	188.06	3.05	2.88	94	1.78	58	OR	3H	2W	
188.06	191.11	3.05	3.02	99	2.29	75	OR	3H	2W	
191.11	194.16	3.05	3.02	99	2.79	91	OR	3H	2W	
194.16	197.21	3.05	2.88	94	2.37	78	OR	3H	2W	
197.21	200.25	3.04	2.95	97	2.87	94	OR	3H	2W	
200.25	203.30	3.05	2.89	95	2.69	88	OR	3H	2W	
203.30	206.35	3.05	2.8	92	2.15	70	OR	3H	2W	
206.35	209.40	3.05	2.93	96	2.74	90	OR	3H	2W	
209.40	212.45	3.05	3.02	99	2.11	69	OR	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
212.45	215.49	3.04	2.83	93	2.24	74	OR	3H	2W	
215.49	218.54	3.05	2.84	93	2.60	85	OR	3H	2W	
218.54	221.59	3.05	2.98	98	2.93	96	OR	3H	2W	
221.59	224.64	3.05	2.74	90	2.61	86	OR	3H	1W	
224.64	227.69	3.05	2.94	96	2.82	92	OR	3H	1W	
227.69	230.73	3.04	3	99	2.81	92	OR	3H	1W	
230.73	233.78	3.05	2.79	91	2.06	68	OR	3H	1W	
233.78	236.83	3.05	2.93	96	1.64	54	OR	3H	1W	
236.83	239.88	3.05	3.05	100	2.94	96	OR	3H	1W	
239.88	242.93	3.05	2.76	90	2.20	72	OR	3H	1W	
242.93	245.97	3.04	2.91	96	2.63	87	OR	3H	1W	
245.97	249.02	3.05	3.05	100	2.85	93	OR	3H	1W	
249.02	252.07	3.05	2.98	98	2.90	95	OR	3H	1W	
252.07	255.12	3.05	2.97	97	2.86	94	OR	3H	1W	
255.12	258.17	3.05	2.89	95	1.99	65	OR	3H	1W	
258.17	261.21	3.04	2.64	87	2.33	77	OR	3H	1W	
261.21	264.26	3.05	2.87	94	2.58	85	OR	3H	1W	
264.26	267.31	3.05	2.87	94	2.58	85	OR	3H	1W	
267.31	270.36	3.05	2.68	88	2.30	75	OR	3H	1W	
270.36	273.41	3.05	2.76	90	2.54	83	OR	5H	1W	
273.41	276.45	3.04	2.76	91	2.20	72	OR	5H	1W	
276.45	279.50	3.05	3.01	99	3.01	99	OR	4H	1W	
279.50	282.55	3.05	3.05	100	3.05	100	OR	4H	1W	
282.55	285.60	3.05	3.03	99	2.53	83	OR	4H	1W	
285.60	288.65	3.05	2.88	94	2.83	93	OR	5H	1W	
288.65	291.69	3.04	2.87	94	2.82	93	OR	4H	1W	
291.69	294.74	3.05	2.77	91	2.07	68	OR	4H	1W	
294.74	297.79	3.05	3.02	99	2.96	97	OR	4H	1W	
297.79	300.84	3.05	2.69	88	1.83	60	OR	4H	1W	
300.84	303.89	3.05	2.5	82	0.97	32	OR	5H	1W	
303.89	306.93	3.04	2.63	87	2.10	69	OR	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
306.93	309.98	3.05	2.77	91	2.09	69	OR	4H	1W	
309.98	313.03	3.05	2.97	97	2.52	83	OR	4H	1W	
313.03	316.08	3.05	2.85	93	1.27	42	OR	4H	1W	
316.08	319.13	3.05	2.98	98	1.82	60	OR	4H	1W	
319.13	322.17	3.04	2.52	83	0.64	21	OR	4H	1W	
322.17	325.22	3.05	2.95	97	1.76	58	OR	4H	1W	
325.22	328.27	3.05	3.03	99	2.77	91	OR	4H	1W	
328.27	331.32	3.05	2.97	97	2.51	82	OR	4H	1W	
331.32	334.37	3.05	2.63	86	1.55	51	OR	3H	1W	
334.37	337.41	3.04	2.48	82	1.33	44	OR	2H	1W	
337.41	340.46	3.05	2.48	81	1.33	44	OR	3H	1W	
340.46	343.51	3.05	2.9	95	2.70	89	OR	3H	1W	
343.51	346.56	3.05	3.05	100	2.06	68	OR	3H	1W	
346.56	349.61	3.05	2.87	94	1.70	56	OR	3H	1W	
349.61	352.65	3.04	2.72	89	2.22	73	OR	3H	1W	
352.65	355.70	3.05	2.8	92	1.08	35	OR	3H	1W	
355.70	358.75	3.05	2.66	87	1.89	62	OR	3H	1W	
358.75	361.80	3.05	2.53	83	1.88	62	OR	3H	1W	
361.80	364.85	3.05	2.47	81	1.66	54	OR	3H	1W	
364.85	367.90	3.05	2.45	80	1.49	49	OR	3H	1W	
367.90	370.94	3.04	2.47	81	1.66	55	OR	3H	1W	
370.94	373.99	3.05	2.94	96	2.40	79	OR	3H	1W	
373.99	377.04	3.05	3.01	99	2.47	81	OR	3H	1W	
377.04	380.09	3.05	2.38	78	0.25	8	OR	3H	1W	
380.09	383.13	3.04	2.85	94	2.39	79	OR	3H	1W	
383.13	386.18	3.05	2.72	89	1.43	47	OR	4H	1W	
386.18	389.23	3.05	2.91	95	1.76	58	OR	3H	1W	
389.23	392.28	3.05	3.02	99	2.65	87	OR	4H	1W	
392.28	395.33	3.05	2.82	92	2.10	69	OR	3H	1W	
395.33	398.37	3.04	2.99	98	2.81	92	OR	3H	1W	
398.37	401.42	3.05	2.84	93	1.76	58	OR	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
401.42	404.47	3.05	2.85	93	2.27	74	OR	3H	1W	
404.47	407.52	3.05	3.05	100	3.04	100	OR	3H	1W	
407.52	410.57	3.05	3.04	100	3.04	100	OR	3H	1W	
410.57	413.61	3.04	2.94	97	2.94	97	OR	3H	1W	
413.61	416.66	3.05	3.02	99	2.84	93	OR	3H	1W	
416.66	419.71	3.05	2.84	93	2.20	72	OR	3H	1W	
419.71	422.76	3.05	3.02	99	3.02	99	OR	3H	1W	
422.76	425.81	3.05	2.95	97	2.84	93	OR	3H	1W	
425.81	428.85	3.04	2.96	97	2.90	95	OR	3H	1W	
428.85	431.90	3.05	2.97	97	2.84	93	OR	4H	1W	
431.90	434.95	3.05	2.95	97	2.95	97	OR	3H	1W	
434.95	438.00	3.05	2.96	97	2.94	96	OR	3H	1W	
438.00	441.05	3.05	3.01	99	3.01	99	OR	3H	1W	
441.05	444.09	3.04	3.02	99	2.20	72	OR	3H	1W	
444.09	447.14	3.05	2.68	88	1.70	56	OR	3H	1W	
447.14	450.19	3.05	2.83	93	2.51	82	OR	3H	1W	
450.19	453.24	3.05	2.92	96	2.63	86	OR	3H	1W	
453.24	456.29	3.05	3.02	99	2.49	82	OR	3H	1W	
456.29	459.33	3.04	2.96	97	2.09	69	OR	3H	1W	
459.33	462.38	3.05	3.05	100	2.87	94	OR	3H	1W	
462.38	465.43	3.05	2.95	97	1.38	45	OR	3H	1W	
465.43	468.48	3.05	3.05	100	1.86	61	OR	3H	1W	
468.48	471.53	3.05	2.94	96	2.72	89	OR	3H	1W	
471.53	474.57	3.04	3.04	100	3.04	100	OR	3H	1W	
474.57	477.62	3.05	3.05	100	2.68	88	OR	3H	1W	
477.62	480.67	3.05	3.03	99	3.03	99	OR	3H	1W	
480.67	483.72	3.05	3.05	100	3.05	100	OR	3H	2W	
483.72	486.77	3.05	3.04	100	2.98	98	OR	3H	2W	
486.77	489.81	3.04	3.04	100	3.04	100	OR	3H	2W	
489.81	492.86	3.05	3.01	99	3.01	99	OR	3H	2W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398332	12-362	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398338	12-362	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398328	12-362	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.23	11.28	3.05	OVB, MST	0.78	26	M398321	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	14.33	3.05	MST	1.46	48	M398322	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	MST	2.65	87	M398323	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	MST	2.65	87	M398324	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17.37	20.42	3.05	MST	2.79	91	M398325	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	23.47	3.05	MST	2.84	93	M398326	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.47	26.52	3.05	MST	2.60	85	M398327	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	29.57	3.05	MST	2.42	79	M398329	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	32.61	3.04	MST	2.77	91	M398330	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	35.66	3.05	MST	2.59	85	M398331	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.66	37.19	1.53	MST	1.52	99	M398333	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.19	39.10	1.91	MST	1.63	85	M398334	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.10	41.76	2.66	MST	2.30	86	M398335	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41.76	44.81	3.05	MST	2.95	97	M398336	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.81	47.85	3.04	MST	2.64	87	M398337	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47.85	50.90	3.05	MST	2.43	80	M398339	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.90	53.95	3.05	CGL	2.51	82	M398340	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.95	57.00	3.05	CGL	2.95	97	M398341	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.95	57.00	3.05	CGL	2.95	97	M398342	12-362	B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
57.00	60.05	3.05	CGL	3.05	100	M398343	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60.05	63.09	3.04	CGL	2.80	92	M398344	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63.09	64.62	1.53	CGL	1.08	71	M398345	12-362	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64.62	66.75	2.13	CGL	2.13	100	M398346	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66.75	69.19	2.44	CGL	2.08	85	M398347	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69.19	72.24	3.05	CGL	2.66	87	M398348	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72.24	75.29	3.05	CGL	2.79	91	M398349	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75.29	78.33	3.04	CGL	2.47	81	M398350	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78.33	81.38	3.05	CGL	2.49	82	M398501	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81.38	84.43	3.05	CGL	3.03	99	M398502	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.43	90.53	6.10	CGL	5.97	98	N830480	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90.53	96.62	6.09	CGL	5.91	97	N830481	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96.62	102.72	6.10	CGL	5.82	95	N830482	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
102.72	108.81	6.09	CGL	4.97	82	N830483	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
108.81	114.91	6.10	CGL	5.49	90	N830484	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
114.91	121.01	6.10	CGL	5.61	92	N830485	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
121.01	127.10	6.09	CGL	5.87	96	N830486	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.10	133.20	6.10	CGL	5.31	87	N830487	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
133.20	136.25	3.05	CGL	3.05	100	N830488	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
136.25	140.70	4.45	CGL	4.10	92	N830489	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140.70	147.80	7.10	CGL	6.50	92	N830490	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
147.80	151.49	3.69	CGL	3.50	95	N830491	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
151.49	157.58	6.09	CGL	5.94	98	N830492	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
157.58	163.68	6.10	CGL	5.63	92	N830493	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
163.68	169.77	6.09	CGL	5.73	94	N830494	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
169.77	175.87	6.10	CGL	5.80	95	N830499	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
175.87	181.97	6.10	CGL	5.68	93	N830500	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.97	188.06	6.09	CGL	5.65	93	N830601	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
188.06	194.16	6.10	CGL	6.04	99	N830602	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
194.16	200.25	6.09	CGL	5.83	96	N830603	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200.25	206.35	6.10	CGL	5.69	93	N830604	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
206.35	212.45	6.10	CGL	5.95	98	N830605	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
212.45	218.54	6.09	CGL	5.67	93	N830606	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
218.54	224.64	6.10	CGL	5.72	94	N830607	12-C12	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
224.64	230.73	6.09	CGL	5.94	98	N830608	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
230.73	236.83	6.10	CGL	5.72	94	N830609	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
236.83	242.93	6.10	CGL	5.81	95	N830610	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
242.93	249.02	6.09	CGL	5.96	98	N830611	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
249.02	255.12	6.10	CGL	6.05	99	N830612	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
255.12	261.21	6.09	CGL	5.53	91	N830637	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
261.21	267.31	6.10	CGL	5.74	94	N830638	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
267.31	273.41	6.10	CGL	5.44	89	N830639	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
273.41	279.50	6.09	CGL	5.77	95	N830640	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
279.50	285.60	6.10	CGL	6.08	100	N830641	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
285.60	291.69	6.09	CGL	5.75	94	N830642	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
291.69	297.79	6.10	CGL	5.79	95	N830643	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
297.79	303.89	6.10	CGL	5.19	85	N830644	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
303.89	309.98	6.09	CGL	5.40	89	N830645	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
309.98	316.08	6.10	CGL	5.82	95	N830646	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
316.08	322.17	6.09	CGL	5.50	90	N830647	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
322.17	328.27	6.10	CGL	5.98	98	N830648	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
328.27	334.37	6.10	CGL	5.60	92	N830655	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
334.37	340.46	6.09	CGL	4.96	81	N830656	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
340.46	346.56	6.10	CGL	5.95	98	N830657	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
346.56	352.65	6.09	CGL	5.59	92	N830658	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
352.65	358.75	6.10	CGL	5.46	90	N830659	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
358.75	364.85	6.10	CGL	5.00	82	N830688	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
364.85	370.94	6.09	CGL	4.92	81	N830689	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
370.94	377.04	6.10	CGL	5.95	98	N830690	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
377.04	383.13	6.09	CGL	5.23	86	N830691	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
383.13	389.23	6.10	CGL	5.63	92	N830692	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
389.23	395.33	6.10	CGL	5.84	96	N830693	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
395.33	401.42	6.09	CGL	5.83	96	N830694	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
401.42	407.52	6.10	CGL	5.90	97	N830695	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
407.52	413.61	6.09	CGL	5.98	98	N830696	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
413.61	419.71	6.10	CGL	5.86	96	N830697	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
419.71	425.81	6.10	CGL	5.97	98	N830698	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
425.81	431.90	6.09	CGL	5.93	97	N830699	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
431.90	438.00	6.10	CGL	5.91	97	N830700	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
438.00	444.09	6.09	CGL	6.03	99	N830501	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
444.09	450.19	6.10	CGL	5.51	90	N830508	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
450.19	456.29	6.10	CGL	5.94	97	N830509	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
456.29	462.38	6.09	CGL	6.01	99	N830510	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
462.38	468.48	6.10	CGL	6.00	98	N830511	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
468.48	474.57	6.09	CGL	5.98	98	N830512	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
474.57	480.67	6.10	CGL	6.08	100	N830513	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
480.67	486.77	6.10	CGL	6.09	100	N830514	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
486.77	492.86	6.09	CGL	6.05	99	N830515	12-C13	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		630102	7112524	1535	542.54

**ZONE:** Conrad  
**SECTION:** C100E

**HOLE:** OS -12-195

**CLAIM:** Sten 22

Contractor: Superior

Drill: 7

Core Size: HQ-NQ

Casing Depth: 6.1m, Out

Drilling Dates: Sep 14 - Sep 18, 2012

Geology Logged By: K. Unger

SURVEY			
Depth (m)	Azimuth	Dip	Method
0	206.22	-68.9	Reflex
542.54	13.02	-70	Reflex

**TARGET:** SLC/LST contact and mineralization in the SLC

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	4.57	4.57	OVb
4.57	96.58	92.01	SHL
96.58	462.49	365.91	SLC
462.49	542.54	80.05	LST

SAMPLES	
Numbers:	M388766 to M388850, M396801 to M396823, N830467 to N830470, N830502 to N830503, N830613 to N830630, N830649 to N830654,
Total:	159
Batch:	366, 368, 370, 371, C11, C12, C13
Certificates:	WH12223869, WH12223890, WH12223891, WH12224024, WH12225405, WH12226811, WH12226812, WH12248139

COMMENTS
Hole hit targeted LST.
Realgar MX with sooty black, SIL/CLY altered core present in sheared SLT and SST within C-SLC unit, 96.58-97.77 m and 142.96-152.66 m.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.57	4.57	OVB	--	OVB/casing, no recovery	--	--	--	--	--	--	0
4.57	96.58	92.01	SHL	FG	Changed to shale unit - dark colour, fine grained. Original log notes: Well bedded slitstone with light grey fine sandy-silt interbeds up to 4 mm thick, making up 25-30% of rock. Pyrite is present as fine disseminations and bands up to 3 mm wide scattered throughout.							
						DK	GY				Re	0
						MD	BK	BD	---	--	Py	0.1
96.58	462.49	365.91	SLC	FG	Interbeds/bands of siltstone, sandstone and conglomerates with variable shear and mineralization.							
						DK	GY				Re	0
						MD	GY	---	---	--	Py	0.1
462.49	542.54	80.05	LST	CG	Well bedded silty limestone with Ca veining.							
						DK	GY					
						MD	GY	BD	---	--	Py	1

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	4.57	4.57	0	0	0.00	0	OR	--	--	
4.57	6.10	1.53	0.42	27	0.00	0	OR	2H	4W	Rubble
6.10	7.62	1.52	0.66	43	0.00	0	OR	2H	4W	Rubble
7.62	9.14	1.52	0.58	38	0.00	0	OR	2H	4W	Rubble
9.14	10.67	1.53	0.7	46	0.00	0	OR	2H	4W	Rubble
10.67	12.19	1.52	0.94	62	0.00	0	OR	2H	4W	Rubble
12.19	13.72	1.53	0.98	64	0.00	0	OR	2H	4W	Rubble
13.72	15.24	1.52	0.94	62	0.00	0	OR	2H	4W	Rubble
15.24	16.76	1.52	1.2	79	0.00	0	OR	3H	4W	Rubble
16.76	18.29	1.53	1.28	84	0.31	20	1R	3H	3W	
18.29	19.81	1.52	1.38	91	0.68	45	1R	3H	3W	
19.81	21.34	1.53	1.49	97	1.00	65	OR	3H	3W	
21.34	22.86	1.52	1.37	90	0.62	41	1R	3H	3W	
22.86	24.38	1.52	1.45	95	0.81	53	1R	3H	3W	
24.38	25.91	1.53	1.53	100	1.13	74	1R	3H	3W	
25.91	27.43	1.52	1.42	93	1.15	76	1R	3H	2W	
27.43	28.96	1.53	1.46	95	1.07	70	1R	3H	1W	
28.96	30.48	1.52	1.52	100	1.35	89	1R	3H	1W	
30.48	32.00	1.52	1.52	100	0.84	55	1R	3H	1W	
32.00	33.53	1.53	1.43	93	1.30	85	1R	3H	1W	
33.53	35.05	1.52	1.52	100	1.02	67	1R	3H	1W	
35.05	36.58	1.53	1.53	100	0.98	64	1R	3H	1W	
36.58	38.10	1.52	1.48	97	1.27	84	1R	3H	1W	
38.10	39.62	1.52	1.43	94	0.96	63	1R	3H	1W	
39.62	41.15	1.53	1.5	98	1.48	97	1R	3H	1W	
41.15	42.67	1.52	1.5	99	1.43	94	1R	3H	1W	
42.67	44.20	1.53	1.51	99	1.14	75	1R	2H	1W	
44.20	45.72	1.52	1.27	84	0.46	30	1R	3H	1W	
45.72	47.24	1.52	1.4	92	0.50	33	1R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
47.24	48.77	1.53	1.38	90	0.33	22	1R	3H	1W	
48.77	50.29	1.52	1.42	93	0.16	11	1R	2H	1W	
50.29	51.82	1.53	1.47	96	0.59	39	OR	3H	1W	
51.82	53.34	1.52	1.5	99	0.85	56	OR	3H	1W	
53.34	54.86	1.52	1.46	96	0.51	34	OR	3H	1W	
54.86	56.39	1.53	1.34	88	1.14	75	OR	3H	1W	
56.39	57.91	1.52	1.5	99	0.98	64	OR	3H	1W	
57.91	59.44	1.53	1.25	82	0.29	19	OR	3H	1W	
59.44	60.96	1.52	1.46	96	0.37	24	OR	3H	1W	
60.96	62.48	1.52	1.31	86	1.08	71	OR	3H	1W	
62.48	64.01	1.53	1.33	87	0.35	23	OR	3H	1W	
64.01	65.53	1.52	1.51	99	0.59	39	OR	3H	1W	
65.53	67.06	1.53	1.47	96	0.85	56	OR	3H	1W	
67.06	68.58	1.52	1.24	82	0.68	45	OR	3H	1W	
68.58	70.10	1.52	1.52	100	0.62	41	OR	3H	1W	
70.10	71.63	1.53	1.39	91	0.79	52	OR	2H	1W	
71.63	73.15	1.52	1.44	95	0.36	24	OR	2H	1W	
73.15	74.68	1.53	1.27	83	0.53	35	OR	2H	1W	
74.68	76.20	1.52	1.5	99	1.20	79	OR	2H	1W	
76.20	77.72	1.52	1.42	93	1.08	71	OR	2H	1W	
77.72	79.25	1.53	1.24	81	0.56	37	OR	2H	1W	
79.25	80.77	1.52	1.26	83	0.53	35	OR	2H	1W	
80.77	82.30	1.53	1.48	97	0.99	65	OR	2H	1W	
82.30	83.82	1.52	1.39	91	1.09	72	OR	2H	1W	
83.82	85.34	1.52	1.5	99	0.65	43	OR	3H	1W	
85.34	86.87	1.53	1.45	95	1.20	78	OR	3H	1W	
86.87	88.39	1.52	1.35	89	0.53	35	OR	3H	1W	
88.39	89.92	1.53	1.35	88	0.55	36	OR	3H	1W	
89.92	91.44	1.52	1.44	95	1.05	69	OR	3H	1W	
91.44	92.96	1.52	1.41	93	0.18	12	OR	3H	1W	
92.96	94.49	1.53	1.43	93	0.77	50	1R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
94.49	96.01	1.52	1.43	94	1.03	68	1R	2H	1W	
96.01	97.53	1.52	1.4	92	0.76	50	1R	2H	1W	
97.53	99.06	1.53	1.42	93	0.85	56	1R	2H	1W	
99.06	100.58	1.52	1.29	85	0.91	60	1R	3H	1W	
100.58	102.11	1.53	1.5	98	1.13	74	1R	3H	1W	
102.11	103.63	1.52	1.42	93	0.51	34	0R	3H	1W	
103.63	105.16	1.53	1.46	95	0.73	48	0R	3H	1W	
105.16	106.68	1.52	1.25	82	0.42	28	0R	1H	1W	
106.68	108.20	1.52	1.25	82	0.45	30	0R	3H	1W	
108.20	109.73	1.53	1.45	95	0.80	52	0R	3H	1W	
109.73	111.25	1.52	1.5	99	1.03	68	0R	3H	1W	
111.25	112.78	1.53	1.45	95	0.70	46	0R	3H	1W	
112.78	114.30	1.52	1.52	100	1.50	99	0R	4H	1W	
114.30	115.82	1.52	1.5	99	1.47	97	0R	4H	1W	
115.82	117.35	1.53	1.52	99	1.52	99	0R	4H	1W	
117.35	118.87	1.52	1.5	99	1.42	93	0R	4H	1W	
118.87	120.40	1.53	1.21	79	0.47	31	0R	4H	1W	
120.40	121.92	1.52	1.34	88	0.54	36	0R	4H	1W	
121.92	124.97	3.05	2.65	87	1.24	41	0R	4H	1W	
124.97	128.02	3.05	2.95	97	2.25	74	0R	4H	1W	
128.02	131.06	3.04	2.48	82	0.96	32	0R	4H	1W	
131.06	134.11	3.05	2.46	81	1.14	37	0R	4H	1W	
134.11	137.16	3.05	2.93	96	2.10	69	0R	4H	1W	
137.16	140.21	3.05	2.69	88	1.44	47	0R	4H	1W	
140.21	143.26	3.05	3.01	99	2.54	83	0R	4H	1W	
143.26	146.30	3.04	1.78	59	0.55	18	0R	4H	1W	
146.30	149.35	3.05	2.82	92	1.01	33	0R	4H	1W	
149.35	152.40	3.05	2.66	87	0.92	30	0R	4H	1W	
152.40	155.45	3.05	2.7	89	1.92	63	0R	4H	1W	
155.45	158.50	3.05	2.9	95	1.97	65	0R	4H	1W	
158.50	161.54	3.04	3.03	100	1.87	62	0R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
161.54	164.59	3.05	2.83	93	1.17	38	OR	3H	1W	
164.59	167.64	3.05	2.83	93	1.72	56	OR	3H	1W	
167.64	170.69	3.05	2.79	91	1.31	43	OR	3H	1W	
170.69	173.74	3.05	2.94	96	1.07	35	OR	3H	1W	
173.74	176.78	3.04	2.61	86	1.00	33	OR	3H	1W	
176.78	179.83	3.05	2.68	88	1.58	52	OR	3H	1W	
179.83	182.88	3.05	2.71	89	0.74	24	OR	3H	1W	
182.88	185.93	3.05	3.05	100	0.96	31	OR	3H	1W	
185.93	188.98	3.05	2.9	95	1.18	39	1R	2H	1W	
188.98	192.02	3.04	2.7	89	0.68	22	OR	3H	1W	
192.02	195.07	3.05	2.88	94	1.61	53	OR	3H	1W	
195.07	198.12	3.05	2.85	93	1.66	54	OR	3H	1W	
198.12	201.17	3.05	2.95	97	1.42	47	OR	3H	1W	
201.17	204.22	3.05	3	98	2.33	76	OR	3H	1W	
204.22	207.26	3.04	2.78	91	2.23	73	OR	3H	1W	
207.26	210.31	3.05	2.99	98	2.61	86	OR	3H	1W	
210.31	213.36	3.05	3.02	99	2.14	70	OR	3H	1W	
213.36	216.41	3.05	2.92	96	1.67	55	OR	2H	1W	
216.41	219.46	3.05	2.91	95	2.15	70	OR	3H	1W	
219.46	222.50	3.04	2.91	96	2.23	73	OR	3H	1W	
222.50	225.55	3.05	2.66	87	2.48	81	OR	3H	1W	
225.55	228.60	3.05	2.9	95	1.88	62	OR	3H	2W	
228.60	231.65	3.05	2.96	97	2.47	81	OR	3H	2W	
231.65	234.70	3.05	2.95	97	2.82	92	OR	3H	2W	
234.70	237.74	3.04	3.04	100	2.13	70	OR	3H	2W	
237.74	240.79	3.05	2.76	90	1.21	40	1R	3H	2W	
240.79	243.84	3.05	2.99	98	1.75	57	1R	3H	1W	
243.84	246.89	3.05	3.05	100	2.50	82	1R	3H	1W	
246.89	249.94	3.05	3.04	100	2.66	87	1R	3H	1W	
249.94	252.98	3.04	2.94	97	2.73	90	1R	3H	1W	
252.98	256.03	3.05	3.04	100	2.86	94	1R	3H	1W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
256.03	259.08	3.05	2.98	98	2.70	89	1R	3H	1W	
259.08	262.13	3.05	2.87	94	1.99	65	1R	3H	1W	
262.13	265.18	3.05	2.98	98	2.85	93	1R	4H	1W	
265.18	268.22	3.04	3.04	100	3.04	100	1R	4H	1W	
268.22	271.27	3.05	2.95	97	2.00	66	1R	3H	1W	
271.27	274.32	3.05	3.03	99	1.73	57	1R	3H	1W	
274.32	277.37	3.05	2.98	98	1.70	56	1R	4H	2W	
277.37	280.42	3.05	2.78	91	2.09	69	1R	4H	2W	
280.42	283.46	3.04	2.88	95	2.31	76	1R	3H	2W	
283.46	286.51	3.05	2.92	96	2.10	69	1R	3H	2W	
286.51	289.56	3.05	2.93	96	1.80	59	1R	3H	2W	
289.56	292.61	3.05	3.05	100	2.00	66	1R	3H	2W	
292.61	295.66	3.05	3.05	100	2.14	70	1R	3H	2W	
295.66	298.70	3.04	2.92	96	2.92	96	1R	3H	2W	
298.70	301.75	3.05	3.05	100	2.37	78	1R	3H	2W	
301.75	304.80	3.05	2.93	96	2.71	89	1R	3H	2W	
304.80	307.85	3.05	3.05	100	1.84	60	1R	3H	2W	
307.85	310.90	3.05	2.92	96	1.91	63	1R	3H	2W	
310.90	313.94	3.04	3.04	100	2.76	91	1R	3H	2W	
313.94	316.99	3.05	2.78	91	2.60	85	1R	3H	2W	
316.99	320.04	3.05	3.05	100	3.05	100	1R	3H	2W	
320.04	323.09	3.05	3.02	99	3.02	99	1R	3H	2W	
323.09	326.14	3.05	3.04	100	3.04	100	1R	3H	2W	
326.14	329.18	3.04	3	99	2.94	97	1R	3H	2W	
329.18	332.23	3.05	3.05	100	2.80	92	1R	3H	2W	
332.23	335.28	3.05	3.04	100	2.90	95	1R	3H	2W	
335.28	338.33	3.05	3.02	99	2.68	88	1R	3H	2W	
338.33	341.38	3.05	2.86	94	2.43	80	1R	4H	2W	
341.38	344.42	3.04	2.98	98	2.57	85	1R	3H	2W	
344.42	347.47	3.05	3.05	100	2.13	70	1R	3H	2W	
347.47	350.52	3.05	2.97	97	2.25	74	1R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
350.52	353.57	3.05	2.29	75	0.84	28	OR	5H	1W	
353.57	356.62	3.05	2.64	87	1.70	56	OR	3H	1W	
356.62	359.66	3.04	2.9	95	2.22	73	OR	3H	1W	
359.66	362.71	3.05	3.05	100	2.41	79	1R	4H	1W	
362.71	365.76	3.05	3.04	100	2.55	84	1R	3H	1W	
365.76	368.81	3.05	2.65	87	1.75	57	OR	4H	1W	
368.81	371.86	3.05	2.42	79	1.51	50	OR	3H	1W	
371.86	374.90	3.04	3.02	99	2.76	91	OR	4H	1W	
374.90	377.95	3.05	2.98	98	2.60	85	1R	3H	1W	
377.95	381.00	3.05	2.94	96	2.48	81	OR	3H	1W	
381.00	384.05	3.05	3.05	100	2.95	97	OR	3H	1W	
384.05	387.10	3.05	2.99	98	2.61	86	OR	3H	1W	
387.10	390.14	3.04	2.89	95	2.53	83	OR	3H	1W	
390.14	393.19	3.05	3	98	2.87	94	OR	3H	1W	
393.19	396.24	3.05	3.01	99	3.01	99	OR	3H	1W	
396.24	399.29	3.05	2.99	98	2.95	97	OR	3H	1W	
399.29	402.34	3.05	3.05	100	3.03	99	OR	3H	1W	
402.34	405.38	3.04	2.91	96	2.70	89	OR	3H	1W	
405.38	408.43	3.05	2.99	98	2.46	81	OR	3H	1W	
408.43	411.48	3.05	3	98	2.90	95	OR	3H	1W	
411.48	414.53	3.05	2.89	95	2.70	89	OR	3H	1W	
414.53	417.57	3.04	3	99	2.43	80	OR	3H	1W	
417.57	420.62	3.05	3.05	100	2.77	91	OR	4H	1W	
420.62	423.67	3.05	2.77	91	0.84	28	OR	3H	1W	
423.67	426.72	3.05	3.04	100	0.85	28	OR	4H	1W	
426.72	429.77	3.05	2.91	95	1.51	50	OR	3H	1W	
429.77	432.82	3.05	3.05	100	2.59	85	OR	3H	1W	
432.82	435.86	3.04	3.04	100	2.58	85	OR	3H	1W	
435.86	438.91	3.05	3.01	99	3.01	99	1R	4H	1W	
438.91	441.96	3.05	3.05	100	2.97	97	1R	4H	1W	
441.96	445.01	3.05	2.97	97	2.85	93	1R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
445.01	448.06	3.05	2.99	98	2.99	98	3R	3H	1W	
448.06	451.10	3.04	2.95	97	2.42	80	3R	3H	1W	
451.10	454.15	3.05	3.01	99	3.01	99	1R	4H	1W	
454.15	457.20	3.05	3.05	100	2.90	95	1R	4H	1W	
457.20	460.25	3.05	3.04	100	2.88	94	1R	4H	1W	
460.25	463.30	3.05	3.04	100	2.68	88	3R	4H	1W	
463.30	466.34	3.04	2.64	87	0.95	31	2R	3H	1W	
466.34	469.39	3.05	2.95	97	2.31	76	2R	3H	1W	
469.39	472.44	3.05	3.05	100	1.56	51	2R	3H	1W	
472.44	475.49	3.05	3.05	100	1.82	60	2R	2H	1W	
475.49	478.54	3.05	3.05	100	2.06	68	2R	3H	1W	
478.54	481.58	3.04	2.9	95	1.76	58	2R	4H	1W	
481.58	484.63	3.05	3.03	99	2.24	73	2R	3H	1W	
484.63	487.68	3.05	3	98	2.03	67	3R	3H	1W	
487.68	490.73	3.05	2.8	92	2.23	73	3R	3H	1W	
490.73	493.78	3.05	2.99	98	1.80	59	3R	3H	1W	
493.78	496.82	3.04	2.96	97	1.94	64	3R	3H	1W	
496.82	499.87	3.05	2.79	91	2.34	77	4R	4H	1W	
499.87	502.92	3.05	2.87	94	2.54	83	3R	1H	1W	
502.92	505.97	3.05	2.98	98	1.91	63	3R	4H	1W	
505.97	509.02	3.05	3.01	99	2.47	81	4R	3H	1W	
509.02	512.06	3.04	3.02	99	2.87	94	4R	4H	1W	
512.06	515.11	3.05	2.95	97	2.48	81	4R	4H	1W	
515.11	518.16	3.05	3.02	99	2.44	80	4R	4H	1W	
518.16	521.21	3.05	3.02	99	2.79	91	4R	4H	1W	
521.21	524.26	3.05	2.96	97	2.66	87	4R	4H	1W	
524.26	527.30	3.04	2.97	98	2.52	83	4R	4H	1W	
527.30	530.35	3.05	3.01	99	2.51	82	4R	4H	1W	
530.35	533.40	3.05	2.99	98	2.68	88	4R	4H	1W	
533.40	536.45	3.05	3.05	100	2.88	94	4R	4H	1W	
536.45	539.50	3.05	3.04	100	2.93	96	4R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
539.50	542.54	3.04	2.97	98	2.71	89	4R	4H	2W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M388836	12-370			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396814	12-371			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388767	12-366	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388840	12-370		15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388824	12-370		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388817	12-370			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388811	12-368			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388798	12-368		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388797	12-368			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388792	12-368		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M388772	12-366	B	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396809	12-371		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.57	7.62	3.05	SHL, OVB	1.08	35	M388766	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.62	10.67	3.05	SHL	1.28	42	M388768	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.67	13.72	3.05	SHL	1.92	63	M388769	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.72	16.76	3.04	SHL	2.14	70	M388770	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.76	19.81	3.05	SHL	2.66	87	M388771	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.81	25.91	6.10	SHL	5.84	96	N830467	12-C11	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.91	32.00	6.09	SHL	5.92	97	N830468	12-C11	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.00	38.10	6.10	SHL	5.96	98	N830469	12-C11	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.10	42.67	4.57	SHL	3.87	85	N830470	12-C11	Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42.67	45.72	3.05	SHL	2.78	91	M388773	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45.72	48.77	3.05	SHL	2.78	91	M388774	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48.77	51.82	3.05	SHL	2.49	82	M388775	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51.82	53.34	1.52	SHL	1.50	99	M388776	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53.34	55.67	2.33	SHL	2.16	93	M388777	12-366	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
55.67	56.89	1.22	SHL	1.15	94	M388778	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
55.67	56.89	1.22	SHL	1.15	94	M388779	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
56.89	59.44	2.55	SHL	2.37	93	M388780	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
59.44	62.48	3.04	SHL	2.77	91	M388781	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62.48	65.53	3.05	SHL	2.84	93	M388782	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65.53	68.58	3.05	SHL	2.71	89	M388783	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68.58	70.10	1.52	SHL	1.52	100	M388784	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70.10	73.15	3.05	SHL	2.83	93	M388785	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73.15	76.20	3.05	SHL	2.77	91	M388786	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76.20	79.25	3.05	SHL	2.66	87	M388787	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79.25	82.30	3.05	SHL	2.74	90	M388788	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82.30	85.34	3.04	SHL	2.89	95	M388789	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.34	88.39	3.05	SHL	2.80	92	M388790	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88.39	91.44	3.05	SHL	2.79	91	M388791	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
91.44	92.96	1.52	SHL	1.41	93	M388793	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92.96	95.22	2.26	SHL	2.17	96	M388794	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95.22	96.58	1.36	SHL	1.25	92	M388795	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96.58	97.77	1.19	SHL, SLC	1.15	97	M388796	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97.77	100.58	2.81	SLC	2.69	96	M388799	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100.58	103.63	3.05	SLC	2.92	96	M388800	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103.63	106.68	3.05	SLC	2.71	89	M388801	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103.63	106.68	3.05	SLC	2.71	89	M388802	12-368			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
106.68	109.73	3.05	SLC	2.70	89	M388803	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
109.73	112.78	3.05	SLC	2.95	97	M388804	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
112.78	115.82	3.04	SLC	3.02	99	M388805	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
115.82	118.87	3.05	SLC	3.02	99	M388806	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
118.87	121.92	3.05	SLC	2.55	84	M388807	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
121.92	124.97	3.05	SLC	2.65	87	M388808	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.97	127.52	2.55	SLC	2.45	96	M388809	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
127.52	128.90	1.38	SLC	1.35	98	M388810	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
128.90	130.90	2.00	SLC	1.15	58	M388812	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130.90	133.14	2.24	SLC	2.12	95	M388813	12-368			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
133.14	135.24	2.10	SLC	1.74	83	M388814	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
135.24	137.10	1.86	SLC	1.77	95	M388815	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
137.10	139.50	2.40	SLC	1.78	74	M388816	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
139.50	141.41	1.91	SLC	1.91	100	M388818	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
141.41	143.06	1.65	SLC	1.63	99	M388819	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
143.06	145.96	2.90	SLC	2.49	86	M388820	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
145.96	148.59	2.63	SLC	2.55	97	M388821	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
148.59	149.35	0.76	SLC	0.76	100	M388822	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
149.35	152.40	3.05	SLC	2.66	87	M388823	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
152.40	155.45	3.05	SLC	2.70	89	M388825	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
155.45	158.50	3.05	SLC	2.90	95	M388826	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
158.50	161.54	3.04	SLC	3.03	100	M388827	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
158.50	161.54	3.04	SLC	3.03	100	M388828	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
161.54	164.59	3.05	SLC	2.83	93	M388829	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
161.54	164.59	3.05	SLC	2.83	93	M388830	12-370			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
164.59	167.64	3.05	SLC	2.83	93	M388831	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
167.64	170.69	3.05	SLC	2.79	91	M388832	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170.69	173.74	3.05	SLC	2.94	96	M388833	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
173.74	176.78	3.04	SLC	2.61	86	M388834	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
176.78	179.83	3.05	SLC	2.68	88	M388835	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
179.83	182.88	3.05	SLC	2.71	89	M388837	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
182.88	184.72	1.84	SLC	1.56	85	M388838	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
184.72	185.93	1.21	SLC	1.21	100	M388839	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
185.93	188.98	3.05	SLC	2.90	95	M388841	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
188.98	192.02	3.04	SLC	2.70	89	M388842	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.02	195.07	3.05	SLC	2.88	94	M388843	12-370			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
195.07	198.12	3.05	SLC	2.85	93	M388844	12-370		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
198.12	201.17	3.05	SLC	2.95	97	M388845	12-370		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
201.17	204.22	3.05	SLC	3.00	98	M388846	12-370		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
204.22	207.26	3.04	SLC	2.78	91	M388847	12-370		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
207.26	210.31	3.05	SLC	2.99	98	M388848	12-370		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
210.31	213.36	3.05	SLC	3.02	99	M388849	12-370		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
213.36	216.41	3.05	SLC	2.92	96	M388850	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
216.41	219.46	3.05	SLC	2.91	95	M396801	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
219.46	222.50	3.04	SLC	2.91	96	M396802	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
222.50	225.55	3.05	SLC	2.66	87	M396803	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
225.55	231.65	6.10	SLC	5.86	96	N830613	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
231.65	237.74	6.09	SLC	5.99	98	N830614	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
237.74	243.84	6.10	SLC	5.75	94	N830615	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
243.84	249.94	6.10	SLC	6.09	100	N830616	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
249.94	256.03	6.09	SLC	5.98	98	N830617	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
256.03	262.13	6.10	SLC	5.85	96	N830618	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
262.13	268.22	6.09	SLC	6.02	99	N830619	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
268.22	271.27	3.05	SLC	2.95	97	N830620	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
271.27	274.32	3.05	SLC	3.03	99	M396804	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
274.32	277.37	3.05	SLC	2.98	98	M396805	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
277.37	280.42	3.05	SLC	2.78	91	M396806	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
280.42	283.46	3.04	SLC	2.88	95	M396807	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
283.46	286.51	3.05	SLC	2.92	96	M396808	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
286.51	292.61	6.10	SLC	5.98	98	N830621	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
292.61	298.70	6.09	SLC	5.98	98	N830622	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
298.70	304.80	6.10	SLC	5.98	98	N830623	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
304.80	310.90	6.10	SLC	5.97	98	N830624	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
310.90	316.99	6.09	SLC	5.82	96	N830625	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
316.99	323.09	6.10	SLC	6.07	100	N830626	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
323.09	329.18	6.09	SLC	6.04	99	N830627	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
329.18	335.28	6.10	SLC	6.09	100	N830628	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
335.28	341.38	6.10	SLC	5.88	96	N830629	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
341.38	344.42	3.04	SLC	2.98	98	N830630	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
344.42	347.47	3.05	SLC	3.05	100	M396810	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
347.47	350.52	3.05	SLC	2.97	97	M396811	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
347.47	350.52	3.05	SLC	2.97	97	M396812	12-371		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
350.52	353.57	3.05	SLC	2.29	75	M396813	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
353.57	356.62	3.05	SLC	2.64	87	M396815	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
356.62	359.66	3.04	SLC	2.90	95	M396816	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
359.66	361.42	1.76	SLC	1.75	99	M396817	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
361.42	364.00	2.58	SLC	2.58	100	M396818	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
364.00	367.00	3.00	SLC	3.00	100	M396819	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
367.00	369.30	2.30	SLC	2.08	90	M396820	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
367.00	369.30	2.30	SLC	2.08	90	M396821	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
369.30	371.86	2.56	SLC	1.61	63	M396822	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
371.86	374.90	3.04	SLC	3.02	99	M396823	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
374.90	381.00	6.10	SLC	5.94	97	N830649	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
381.00	387.10	6.10	SLC	6.04	99	N830650	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
387.10	393.19	6.09	SLC	5.89	97	N830651	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
393.19	399.29	6.10	SLC	6.00	98	N830652	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
399.29	405.38	6.09	SLC	5.96	98	N830653	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
405.38	411.48	6.10	SLC	5.99	98	N830654	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
411.48	414.53	3.05	SLC	2.89	95	N830660	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
414.53	420.62	6.09	SLC	6.05	99	N830661	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
420.62	426.72	6.10	SLC	5.81	95	N830662	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
426.72	432.82	6.10	SLC	5.96	98	N830663	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
432.82	438.91	6.09	SLC	6.05	99	N830664	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
438.91	445.01	6.10	SLC	6.02	99	N830665	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
445.01	451.10	6.09	SLC	6.04	99	N830666	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
451.10	457.20	6.10	SLC	6.06	99	N830667	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
457.20	462.49	5.29	SLC	5.29	100	N830668	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
462.49	466.34	3.85	SLC, LST	3.40	88	N830669	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
466.34	472.44	6.10	LST	6.00	98	N830670	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
472.44	478.54	6.10	LST	6.10	100	N830671	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
478.54	484.63	6.09	LST	5.93	97	N830672	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
484.63	490.73	6.10	LST	5.80	95	N830673	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
490.73	496.82	6.09	LST	5.95	98	N830674	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
496.82	502.92	6.10	LST	5.66	93	N830675	12-C12	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
502.92	509.02	6.10	LST	5.99	98	N830676	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
509.02	515.11	6.09	LST	5.97	98	N830677	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
515.11	521.21	6.10	LST	6.04	99	N830678	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
521.21	527.30	6.09	LST	5.93	97	N830679	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
527.30	533.40	6.10	LST	6.00	98	N830680	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
533.40	539.50	6.10	LST	6.09	100	N830502	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
539.50	542.54	3.04	LST	2.97	98	N830503	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		630901	7112299	1224.83	626.36

**ZONE:** Conrad

**SECTION:** C900E

**HOLE: OS -12-196**

**CLAIM:** Sten 35

Contractor: Superior

Drill: 7

Core Size: HQ-NQ

Casing Depth: 30.48m, Out

Drilling Dates: Sep 19 - Sep 30, 2012

Geology Logged By: K. Unger

SURVEY			
Depth (m)	Azimuth	Dip	Method
1.52	18.12	0	Reflex
626.36	11.92	-40.2	Reflex

**TARGET:** Contact of the conrad limestone with the overlying con

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	9.38	9.38	OVB
9.38	28.96	19.58	SLT
28.96	33.35	4.39	SLC
33.35	86.12	52.77	SLT
86.12	91.15	5.03	DST
91.15	122.55	31.4	SST
122.55	123.85	1.3	INT
123.85	148.38	24.53	SST
148.38	189.66	41.28	SLT
189.66	209.9	20.24	CGL
209.9	216.66	6.76	SLT
216.66	234.7	18.04	SST
234.7	259.59	24.89	CGL
259.59	273.75	14.16	SLT
273.75	281.42	7.67	CGL
281.42	294.24	12.82	SLT

SAMPLES	
Numbers:	M396824 to M397000, M400201 to M400228, N830530 to N830553
Total:	229
Batch:	371, 375, 377, 379, 383, 386, 389, C13, C14
Certificates:	WH12226811, WH12226812, WH12226814, WH12226815, WH12229202, WH12233184, WH12233188, WH12233301, WH12233304, WH12248139, WH12252010, WH12252011

COMMENTS
Hole shutdown after passing through Nadaleen fault

294.24	322.63	28.39	SST
322.63	338.95	16.32	CGL
338.95	343.3	4.35	SST
343.3	364.92	21.62	CGL
364.92	389.25	24.33	SST
389.25	565.4	176.15	LST
565.4	592.84	27.44	SLT
592.84	626.36	33.52	MST

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	9.38	9.38	OVB	--	OVB/casing, no recovery	--	--	--	--	--	--	0
9.38	28.96	19.58	SLT	--	Interbedded and deformed SLT and LST.	MD	GY					
						DK	GY	BD	OXI	3I	--	0
28.96	33.35	4.39	SLC	--	gritty and soft gouge and fault rubble	DK	GY					
						MD	BK	---	CLY	4I	--	0
33.35	86.12	52.77	SLT	FG	Grey to green to black well bedded, variably sheared SLT, becoming sandy down section. Clay alteration local to sheared sections.	DK	GY	BD	CLY	2I	Py	1
						MD	GN					
86.12	91.15	5.03	DST	FG	Changed to Dolostone, visual and chemistry. Original log: Grey to green, variably deformed, well bedded to laminated sandy SLT. Bedding is variably deformed, most often expressed by silty interbeds. Sandy bands up to 65 cm wide preferentially hose white, irregular Qz veinlets and black crackling. Sandy beds are weakly reactive with HCl when scratched. Pyrite is present as scattered blebs at times strung along bands (disaggregation?).	MD	GN					
						MD	GY	BD	---	--	Py	1
91.15	122.55	31.40	SST	CG	Grey, well bedded silty sandstone. Sandstone dominates with silty interbeds of variable widths throughout. Core is variably sheared, with clay alteration associated with shear textures. Realgar present with some gougy sheared bands.	MD	GY	BD	CLY	2I	Py	1
						DK	GY					
122.55	123.85	1.30	INT	--	Grey, porphyritic, clay altered INT.	LT	GY	PO	CLY	4I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
123.85	148.38	24.53	SST	CG	Well bedded silty sandstone. Sandstone dominates with thin interbeds of grey to green silts. Shear is scattered throughout. Patchy DCB alteration associated with realgar mineralization.							
						DK	GY		DCA	2I	Re	0.5
						LT	GY	BD	CLY	2I	Py	1
148.38	189.66	41.28	SLT	FG	Well bedded, variably sheared sandy siltstone. Clay alteration and white Qz stringers local to intermittent shear textures.							
						MD	GY					
						DK	GY	BD	CLY	1I	--	0
189.66	209.90	20.24	CGL	--	Variably matrix to clast supported "starry night" conglomerate and polymictic pebble conglomerate. Fabric generally chaotic, lacking pervasive bedding throughout.							
						DK	GY	---	---	--	--	0
						LT	GY					
209.90	216.66	6.76	SLT	FG	Variably sheared sandy siltstone. Clay alteration local to shear.							
						MD	GY					
						DK	GY	BD	CLY	3I	--	0
216.66	234.70	18.04	SST	CG	Well bedded silty sandstone with sandy pebble conglomerate. Weakly sheared throughout.							
						MD	GY	BD	---	--	--	0
						DK	GY					
234.70	259.59	24.89	CGL	--	"Starry night" conglomerate. Matrix supported with narrow silty bands/lenses.							
						MD	BK	---	---	--	Py	0.1
						LT	GY					
259.59	273.75	14.16	SLT	FG	Well bedded sandy siltstone. Shear is variable, with clay alteration local to deformed bedding. Sand content increases with depth.							
						DK	GY	BD	CLY	2I	--	0
						LT	GY					
273.75	281.42	7.67	CGL	--	Polymictic pebble to sandy CGL. Soft sediment deformed silty masses are seen throughout. Weakly sheared.							
						LT	GY	DB	CLY	2I	Py	5
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
281.42	294.24	12.82	SLT	FG	Well bedded, variably sheared SLT. Core is blocky and sheared up section.							
						DK	GY	BD	CLY	2I	Py	2
						MD	GY					
294.24	322.63	28.39	SST	CG	Well bedded silty sandstone with turbulent bedding textures. Trace realgar is present on some fractures noted during chip sampling.							
						LT	GY	BD	---	--	Re	0.01
						DK	GY					
322.63	338.95	16.32	CGL	--	"Starry night" CGL with pebbly to coarse sand clasts supported in dark grey matrix.							
						DK	GY	---	---	--	Py	0.1
						LT	GY					
338.95	343.30	4.35	SST	CG	Coarse, massive sandstone with qz veining.							
						LT	GY	MA	---	--	Un	0.01
						DK	GY				Qz	15
343.30	364.92	21.62	CGL	--	"Starry night" CGL and pebble conglomerates. Polymictic pebble conglomerate overlies "starry night" rock with sharp contact.							
						DK	GY	---	---	--	Py	0.5
						LT	GY					
364.92	389.25	24.33	SST	CG	Variably deformed, interbedded SST and silts. Small flame structures indicate up hole upping direction.							
						DK	GY					
						LT	GY	BD	---	--	Re	0.01
389.25	565.40	176.15	LST	VF	Bedded conrad lime mudstone with pervasive calcite veining and millimetre to centimetre scale carbonaceous seams.							
						LT	GY	BD	---	--	Re	0.1
								CR				
565.40	592.84	27.44	SLT	VF	Sheared siltstone with discontinuous/fragmented calcite and dolomite veinlets.							
								FR				
								RB				
						MD	GY	SN	---	--	--	0

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
592.84	626.36	33.52	MST	VF	Strained siltstone with interbeds of what appears to be Nonad mudstone (light grey to teal in colour). Wavy to discontinuous dolomite veinlets, and sparse siliceous veinlets present.	LT	GY	SN	---	--	--	0



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	9.38	9.38	0	0	0.00	0	OR	--	--	drill enters mountain
9.38	12.19	2.81	2.58	92	0.21	7	3R	3H	3W	
12.19	13.72	1.53	1.43	93	0.00	0	3R	3H	3W	
13.72	15.24	1.52	1.41	93	0.00	0	3R	3H	3W	
15.24	16.76	1.52	1.52	100	0.45	30	3R	3H	3W	
16.76	18.29	1.53	1.53	100	0.20	13	1R	3H	3W	
18.29	19.81	1.52	1.26	83	0.10	7	3R	3H	3W	
19.81	21.34	1.53	1.33	87	0.38	25	3R	3H	3W	
21.34	22.86	1.52	1.52	100	0.00	0	3R	3H	3W	
22.86	24.38	1.52	1.45	95	0.00	0	3R	3H	3W	
24.38	25.91	1.53	1.45	95	0.00	0	3R	3H	3W	
25.91	27.43	1.52	1.52	100	0.00	0	3R	3H	3W	
27.43	28.96	1.53	1.39	91	0.30	20	3R	3H	3W	
28.96	30.48	1.52	1.11	73	0.31	20	3R	3H	3W	
30.48	32.00	1.52	1.44	95	0.62	41	3R	2H	1W	
32.00	33.53	1.53	1.38	90	0.41	27	1R	1H	1W	
33.53	35.05	1.52	1.06	70	0.21	14	OR	1H	1W	
35.05	36.58	1.53	1.44	94	0.72	47	OR	3H	1W	
36.58	38.10	1.52	1.25	82	0.77	51	OR	3H	1W	
38.10	39.62	1.52	1.1	72	0.13	9	OR	3H	1W	
39.62	41.15	1.53	1.46	95	1.00	65	OR	3H	1W	
41.15	42.67	1.52	1.4	92	0.90	59	OR	3H	1W	
42.67	44.20	1.53	1.39	91	0.34	22	OR	3H	1W	
44.20	45.72	1.52	1.3	86	0.55	36	OR	3H	1W	
45.72	47.24	1.52	1.32	87	0.26	17	OR	3H	1W	
47.24	48.77	1.53	1.43	93	0.71	46	OR	3H	1W	
48.77	50.29	1.52	1.43	94	0.54	36	OR	3H	1W	
50.29	51.82	1.53	1.32	86	0.86	56	OR	3H	1W	
51.82	53.34	1.52	1.42	93	0.74	49	OR	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
53.34	54.86	1.52	1.28	84	0.35	23	OR	3H	1W	
54.86	56.39	1.53	1.26	82	0.67	44	OR	3H	1W	
56.39	57.91	1.52	1.49	98	0.72	47	OR	2H	1W	
57.91	59.44	1.53	1.31	86	0.42	27	OR	2H	1W	
59.44	60.96	1.52	1.37	90	1.17	77	OR	2H	1W	
60.96	62.48	1.52	1.31	86	0.64	42	OR	2H	1W	
62.48	64.01	1.53	1.34	88	0.43	28	OR	3H	1W	
64.01	65.53	1.52	1.43	94	0.70	46	OR	3H	1W	
65.53	67.06	1.53	1.4	92	0.91	59	OR	3H	1W	
67.06	68.58	1.52	1.37	90	0.92	61	OR	3H	1W	
68.58	70.10	1.52	1.4	92	1.12	74	OR	3H	1W	
70.10	71.63	1.53	1.33	87	1.02	67	OR	3H	1W	
71.63	73.15	1.52	1.42	93	1.33	88	OR	3H	1W	
73.15	74.68	1.53	1.4	92	1.21	79	OR	3H	1W	
74.68	76.20	1.52	1.16	76	0.38	25	OR	3H	1W	
76.20	77.72	1.52	1.5	99	1.37	90	OR	3H	1W	
77.72	79.25	1.53	1.53	100	1.31	86	OR	3H	1W	
79.25	80.77	1.52	1.52	100	1.48	97	OR	3H	1W	
80.77	82.30	1.53	1.53	100	1.20	78	OR	3H	1W	
82.30	83.82	1.52	1.45	95	1.32	87	OR	3H	1W	
83.82	85.34	1.52	1.52	100	1.52	100	OR	3H	1W	
85.34	86.87	1.53	1.49	97	1.20	78	OR	3H	1W	
86.87	88.39	1.52	1.51	99	0.95	63	OR	3H	1W	
88.39	89.92	1.53	1.5	98	1.28	84	OR	4H	1W	
89.92	91.44	1.52	1.49	98	0.63	41	OR	3H	1W	
91.44	92.96	1.52	1.38	91	1.00	66	OR	4H	1W	
92.96	94.49	1.53	1.4	92	0.72	47	OR	4H	1W	
94.49	96.01	1.52	1.51	99	0.76	50	OR	4H	1W	
96.01	97.54	1.53	1.41	92	0.53	35	OR	4H	2W	
97.54	99.06	1.52	1.4	92	0.80	53	OR	4H	2W	
99.06	102.11	3.05	3.04	100	0.53	17	OR	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
102.11	105.16	3.05	2.89	95	1.51	50	OR	3H	2W	
105.16	108.20	3.04	2.79	92	1.39	46	OR	3H	2W	
108.20	111.25	3.05	2.91	95	0.95	31	OR	4H	2W	
111.25	114.30	3.05	2.71	89	1.16	38	OR	3H	2W	
114.30	117.35	3.05	2.95	97	1.55	51	OR	3H	2W	
117.35	120.40	3.05	3.05	100	0.98	32	OR	3H	2W	
120.40	123.44	3.04	2.8	92	0.91	30	OR	3H	2W	
123.44	126.49	3.05	2.87	94	0.35	11	OR	3H	2W	
126.49	129.54	3.05	3.05	100	1.08	35	OR	3H	2W	
129.54	132.59	3.05	2.29	75	0.22	7	OR	3H	2W	
132.59	135.64	3.05	3.05	100	1.69	55	OR	4H	2W	
135.64	138.68	3.04	2.59	85	1.74	57	OR	4H	2W	
138.68	141.73	3.05	3.05	100	2.04	67	OR	4H	2W	
141.73	144.78	3.05	2.6	85	1.30	43	OR	4H	2W	
144.78	147.83	3.05	3.05	100	2.17	71	OR	4H	2W	
147.83	150.88	3.05	2.77	91	1.78	58	OR	4H	2W	
150.88	153.92	3.04	2.91	96	1.81	60	OR	4H	2W	
153.92	156.97	3.05	2.87	94	1.75	57	OR	4H	2W	
156.97	160.02	3.05	3.05	100	1.90	62	OR	4H	2W	
160.02	163.07	3.05	2.8	92	1.94	64	OR	4H	2W	
163.07	166.12	3.05	2.91	95	2.40	79	OR	4H	2W	
166.12	169.16	3.04	3.03	100	2.82	93	OR	4H	2W	
169.16	172.21	3.05	2.81	92	2.10	69	OR	4H	2W	
172.21	175.26	3.05	3.01	99	1.45	48	OR	4H	2W	
175.26	178.31	3.05	2.71	89	1.03	34	OR	4H	2W	
178.31	181.36	3.05	2.97	97	2.26	74	OR	4H	2W	
181.36	184.40	3.04	2.89	95	0.97	32	OR	3H	2W	
184.40	187.45	3.05	2.66	87	2.07	68	OR	2H	2W	
187.45	190.50	3.05	2.69	88	1.28	42	OR	3H	2W	
190.50	193.55	3.05	3.05	100	2.73	90	OR	4H	2W	
193.55	196.60	3.05	2.92	96	2.71	89	OR	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
196.60	199.64	3.04	2.92	96	2.38	78	OR	4H	2W	
199.64	202.69	3.05	2.92	96	1.77	58	OR	4H	2W	
202.69	205.74	3.05	2.74	90	1.68	55	OR	4H	1W	
205.74	208.79	3.05	2.56	84	0.66	22	OR	4H	1W	
208.79	211.84	3.05	2.83	93	1.97	65	OR	4H	1W	
211.84	214.88	3.04	2.7	89	1.39	46	OR	4H	1W	
214.88	217.93	3.05	3.05	100	1.18	39	OR	4H	1W	
217.93	220.98	3.05	2.92	96	1.47	48	OR	4H	1W	
220.98	224.03	3.05	2.82	92	1.74	57	OR	4H	1W	
224.03	227.08	3.05	2.99	98	2.51	82	OR	4H	1W	
227.08	230.12	3.04	2.92	96	1.67	55	OR	4H	1W	
230.12	233.17	3.05	3.05	100	2.26	74	OR	4H	1W	
233.17	236.22	3.05	2.9	95	2.43	80	OR	4H	1W	
236.22	239.27	3.05	3.04	100	2.86	94	OR	4H	1W	
239.27	242.32	3.05	3.05	100	3.02	99	OR	3H	1W	
242.32	245.36	3.04	2.8	92	2.72	89	OR	4H	1W	
245.36	248.41	3.05	2.88	94	2.58	85	OR	4H	1W	
248.41	251.46	3.05	2.85	93	2.76	90	OR	4H	1W	
251.46	254.51	3.05	3.05	100	2.79	91	OR	4H	1W	
254.51	257.56	3.05	3.05	100	3.01	99	OR	4H	1W	
257.56	260.60	3.04	3.04	100	2.84	93	OR	4H	1W	
260.60	263.65	3.05	3.01	99	2.70	89	OR	4H	1W	
263.65	266.70	3.05	3.04	100	2.02	66	1R	3H	1W	
266.70	269.75	3.05	3	98	1.92	63	1R	3H	1W	
269.75	272.80	3.05	2.97	97	1.48	49	1R	3H	1W	
272.80	275.84	3.04	3.04	100	1.84	61	1R	4H	1W	
275.84	278.89	3.05	3.02	99	2.47	81	1R	4H	1W	
278.89	281.94	3.05	3.05	100	0.86	28	1R	4H	1W	
281.94	284.99	3.05	2.79	91	0.88	29	1R	3H	1W	
284.99	288.04	3.05	2.94	96	0.97	32	1R	3H	1W	
288.04	291.08	3.04	2.98	98	1.97	65	1R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
291.08	294.13	3.05	2.97	97	2.51	82	OR	3H	1W	
294.13	297.18	3.05	2.96	97	1.96	64	OR	3H	1W	
297.18	300.23	3.05	3.03	99	2.75	90	OR	3H	1W	
300.23	303.28	3.05	2.97	97	2.75	90	OR	3H	1W	
303.28	306.32	3.04	3.04	100	2.83	93	OR	3H	1W	
306.32	309.37	3.05	3.05	100	3.00	98	OR	3H	1W	
309.37	312.42	3.05	3.05	100	2.85	93	OR	3H	1W	
312.42	315.47	3.05	3.01	99	2.96	97	OR	3H	1W	
315.47	318.52	3.05	3.04	100	2.49	82	OR	3H	1W	
318.52	321.56	3.04	3.02	99	2.79	92	OR	3H	1W	
321.56	324.61	3.05	3.04	100	2.82	92	OR	3H	1W	
324.61	327.66	3.05	3.02	99	2.92	96	OR	3H	1W	
327.66	330.71	3.05	3.02	99	2.93	96	OR	3H	1W	
330.71	333.76	3.05	3.02	99	2.94	96	OR	4H	1W	
333.76	336.80	3.04	2.88	95	2.31	76	OR	4H	1W	
336.80	339.85	3.05	2.74	90	1.35	44	OR	4H	1W	
339.85	342.90	3.05	2.86	94	2.19	72	OR	4H	1W	
342.90	345.95	3.05	2.93	96	2.00	66	1R	4H	1W	
345.95	349.00	3.05	3.05	100	2.48	81	1R	4H	1W	
349.00	352.04	3.04	3.04	100	3.04	100	1R	3H	1W	
352.04	355.09	3.05	3.04	100	2.60	85	1R	3H	1W	
355.09	358.14	3.05	3	98	3.00	98	1R	3H	1W	
358.14	361.19	3.05	3.05	100	2.93	96	1R	3H	1W	
361.19	364.24	3.05	3.05	100	2.76	90	OR	3H	1W	
364.24	367.28	3.04	2.93	96	1.85	61	OR	3H	1W	
367.28	370.33	3.05	3.05	100	1.68	55	OR	3H	1W	
370.33	373.38	3.05	2.97	97	2.20	72	OR	3H	1W	
373.38	376.43	3.05	2.84	93	2.28	75	OR	4H	1W	
376.43	379.48	3.05	2.88	94	1.40	46	OR	4H	1W	
379.48	382.52	3.04	2.96	97	1.49	49	OR	4H	1W	
382.52	385.57	3.05	2.86	94	0.96	31	OR	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
385.57	388.62	3.05	2.99	98	1.10	36	0R	4H	1W	
388.62	391.67	3.05	2.41	79	0.42	14	0R	4H	1W	
391.67	394.72	3.05	2.91	95	2.00	66	4R	4H	1W	
394.72	397.76	3.04	3.01	99	2.46	81	4R	4H	1W	
397.76	400.81	3.05	3.05	100	2.57	84	4R	4H	1W	
400.81	403.86	3.05	3.05	100	1.64	54	4R	4H	1W	
403.86	406.91	3.05	3	98	1.67	55	4R	4H	1W	
406.91	409.96	3.05	3.01	99	2.46	81	4R	4H	1W	
409.96	413.00	3.04	3.02	99	2.39	79	4R	4H	1W	
413.00	416.05	3.05	3.05	100	2.74	90	4R	3H	1W	
416.05	419.10	3.05	3.05	100	2.16	71	4R	3H	1W	
419.10	422.15	3.05	2.93	96	1.87	61	4R	3H	1W	
422.15	425.20	3.05	2.95	97	2.17	71	4R	4H	1W	
425.20	428.24	3.04	3.04	100	2.28	75	4R	4H	1W	
428.24	431.29	3.05	2.91	95	1.94	64	4R	4H	1W	
431.29	434.34	3.05	3.05	100	2.48	81	4R	4H	1W	
434.34	437.39	3.05	3.05	100	2.38	78	4R	4H	1W	
437.39	440.44	3.05	3.05	100	2.36	77	4R	4H	1W	
440.44	443.48	3.04	3.04	100	2.47	81	4R	4H	1W	
443.48	446.53	3.05	3.05	100	2.59	85	4R	4H	1W	
446.53	449.58	3.05	3.05	100	2.12	70	4R	4H	1W	
449.58	452.63	3.05	3.05	100	1.77	58	4R	4H	1W	
452.63	455.68	3.05	3	98	2.08	68	4R	4H	1W	
455.68	458.72	3.04	2.93	96	1.21	40	4R	4H	1W	
458.72	461.77	3.05	3.01	99	1.49	49	4R	4H	1W	
461.77	464.82	3.05	3.05	100	2.03	67	4R	3H	1W	
464.82	467.87	3.05	2.91	95	2.79	91	4R	3H	1W	
467.87	470.92	3.05	3.04	100	2.08	68	4R	3H	1W	
470.92	473.96	3.04	3.04	100	1.89	62	4R	3H	1W	
473.96	477.01	3.05	3.04	100	1.56	51	4R	3H	1W	
477.01	480.06	3.05	3.05	100	2.09	69	4R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
480.06	483.11	3.05	2.93	96	2.25	74	4R	3H	1W	
483.11	486.16	3.05	3.05	100	2.72	89	4R	3H	1W	
486.16	489.20	3.04	3.04	100	2.09	69	4R	3H	1W	
489.20	492.25	3.05	3.05	100	2.05	67	4R	3H	1W	
492.25	495.30	3.05	3	98	2.80	92	4R	3H	1W	
495.30	498.35	3.05	3.02	99	2.63	86	4R	3H	1W	
498.35	501.40	3.05	3.05	100	2.77	91	4R	3H	1W	
501.40	504.44	3.04	3.01	99	2.66	88	4R	3H	1W	
504.44	507.49	3.05	3.01	99	3.01	99	4R	3H	1W	
507.49	510.54	3.05	3.05	100	2.90	95	4R	3H	1W	
510.54	513.59	3.05	3.05	100	2.75	90	4R	3H	1W	
513.59	516.64	3.05	3.05	100	2.88	94	4R	3H	1W	
516.64	519.68	3.04	3.04	100	2.86	94	4R	3H	1W	
519.68	522.73	3.05	3.05	100	2.42	79	4R	3H	1W	
522.73	525.78	3.05	3.03	99	2.56	84	4R	3H	1W	
525.78	528.83	3.05	3.05	100	2.51	82	4R	3H	1W	
528.83	531.88	3.05	3.05	100	2.50	82	4R	3H	1W	
531.88	534.92	3.04	3.04	100	2.78	91	4R	3H	1W	
534.92	537.97	3.05	2.98	98	2.33	76	4R	3H	1W	
537.97	541.02	3.05	3.04	100	2.64	87	4R	3H	1W	
541.02	544.07	3.05	3.05	100	2.76	90	4R	3H	1W	
544.07	547.12	3.05	2.89	95	1.92	63	4R	3H	1W	
547.12	550.16	3.04	3.04	100	2.50	82	4R	3H	1W	
550.16	553.21	3.05	3.05	100	2.30	75	4R	3H	1W	
553.21	556.26	3.05	3.05	100	1.90	62	4R	3H	1W	
556.26	559.31	3.05	3.05	100	1.84	60	4R	3H	1W	
559.31	562.36	3.05	3.05	100	1.37	45	4R	3H	1W	
562.36	565.40	3.04	3.04	100	0.90	30	4R	3H	1W	
565.40	568.45	3.05	3	98	1.80	59	4R	2H	1W	
568.45	571.50	3.05	3	98	1.84	60	3R	2H	1W	
571.50	574.55	3.05	2.92	96	0.48	16	0R	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
574.55	577.60	3.05	3	98	0.84	28	OR	2H	1W	
577.60	580.64	3.04	2.98	98	0.59	19	OR	1H	1W	
580.64	583.69	3.05	2.75	90	0.81	27	OR	1H	1W	
583.69	586.74	3.05	2.7	89	0.30	10	OR	1H	1W	
586.74	589.79	3.05	2.4	79	0.35	11	OR	1H	1W	
589.79	592.84	3.05	2.56	84	0.00	0	OR	2H	1W	
592.84	595.88	3.04	2.95	97	1.61	53	OR	2H	1W	
595.88	598.93	3.05	3.05	100	2.10	69	OR	2H	1W	
598.93	601.98	3.05	3.05	100	2.35	77	OR	2H	1W	
601.98	605.03	3.05	2.85	93	1.48	49	OR	3H	1W	
605.03	608.08	3.05	3.05	100	2.88	94	OR	3H	1W	
608.08	611.12	3.04	3.04	100	3.00	99	OR	3H	1W	
611.12	614.17	3.05	3.05	100	2.07	68	OR	3H	1W	
614.17	617.22	3.05	3.05	100	2.55	84	OR	3H	1W	
617.22	620.27	3.05	3.05	100	2.72	89	OR	3H	1W	
620.27	623.32	3.05	3.05	100	2.55	84	OR	3H	1W	
623.32	626.36	3.04	2.95	97	1.95	64	OR	3H	1W	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M396925	12-379		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400225	12-389		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400220	12-389			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400207	12-389		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M400203	12-389			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396993	12-386	M	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396979	12-386	M		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396973	12-386	M	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396969	12-386	M		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396961	12-383	M	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396944	12-383	M		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396832	12-371			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396931	12-383	M		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396920	12-379			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396908	12-379			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396895	12-379		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396889	12-375	B	15B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396887	12-375	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396883	12-375	B	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396873	12-375	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396868	12-377			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396862	12-377		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396850	12-377		P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396838	12-377			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396833	12-371		4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M396939	12-383	M	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.38	12.19	2.81	OVB, SLT	2.58	92	M396824	12-371			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.19	15.24	3.05	SLT	2.84	93	M396825	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15.24	18.29	3.05	SLT	3.05	100	M396826	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18.29	21.34	3.05	SLT	2.59	85	M396827	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21.34	24.38	3.04	SLT	2.97	98	M396828	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24.38	27.43	3.05	SLT	2.97	97	M396829	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
27.43	28.96	1.53	SLT	1.39	91	M396830	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28.96	32.00	3.04	SLT, SLC	2.55	84	M396831	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32.00	33.53	1.53	SLC	1.38	90	M396834	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
33.53	36.58	3.05	SLT	2.50	82	M396835	12-371		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
36.58	39.62	3.04	SLT	2.35	77	M396836	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
39.62	42.67	3.05	SLT	2.86	94	M396837	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
42.67	45.72	3.05	SLT	2.69	88	M396839	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
45.72	48.77	3.05	SLT	2.75	90	M396840	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
48.77	51.82	3.05	SLT	2.75	90	M396841	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
51.82	54.86	3.04	SLT	2.70	89	M396842	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
54.86	57.91	3.05	SLT	2.75	90	M396843	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.91	60.13	2.22	SLT	2.05	92	M396844	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.13	62.48	2.35	SLT	2.07	88	M396845	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.13	62.48	2.35	SLT	2.07	88	M396846	12-377		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
62.48	65.53	3.05	SLT	2.77	91	M396847	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
65.53	68.58	3.05	SLT	2.77	91	M396848	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
68.58	71.63	3.05	SLT	2.73	90	M396849	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
71.63	73.15	1.52	SLT	1.42	93	M396851	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
73.15	74.12	0.97	SLT	0.88	91	M396852	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
74.12	76.20	2.08	SLT	1.91	92	M396853	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
76.20	79.25	3.05	SLT	3.03	99	M396854	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
79.25	82.30	3.05	SLT	3.05	100	M396855	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
82.30	83.82	1.52	SLT	1.52	100	M396856	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83.82	86.12	2.30	SLT	2.30	100	M396857	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
86.12	88.39	2.27	SLT, DST	2.24	99	M396858	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
86.12	88.39	2.27	SLT, DST	2.24	99	M396859	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
88.39	91.15	2.76	DST	2.69	97	M396860	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
91.15	92.96	1.81	DST, SST	1.77	98	M396861	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
92.96	96.01	3.05	SST	2.91	95	M396863	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96.01	99.06	3.05	SST	2.81	92	M396864	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.06	102.11	3.05	SST	3.04	100	M396865	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.11	103.70	1.59	SST	1.39	87	M396866	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
103.70	105.16	1.46	SST	1.46	100	M396867	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.16	108.20	3.04	SST	2.79	92	M396869	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.20	111.25	3.05	SST	2.91	95	M396870	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
111.25	112.30	1.05	SST	1.02	97	M396871	12-377		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
112.30	114.30	2.00	SST	1.58	79	M396872	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.30	117.35	3.05	SST	2.95	97	M396874	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
117.35	120.40	3.05	SST	3.05	100	M396875	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
120.40	122.55	2.15	SST	2.12	99	M396876	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.55	123.85	1.30	SST, INT	1.09	84	M396877	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122.55	123.85	1.30	SST, INT	1.09	84	M396878	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
123.85	126.49	2.64	SST, INT	2.61	99	M396879	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
126.49	129.54	3.05	SST	3.05	100	M396880	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
129.54	132.59	3.05	SST	2.29	75	M396881	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
132.59	135.64	3.05	SST	3.05	100	M396882	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
135.64	138.68	3.04	SST	2.59	85	M396884	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
138.68	141.73	3.05	SST	3.05	100	M396885	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
141.73	142.78	1.05	SST	1.05	100	M396886	12-375	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Duplication		
										Blank	1/4 Dup	Coarse Dup
142.78	144.78	2.00	SST	1.67	84	M396888	12-375	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
144.78	146.66	1.88	SST	1.88	100	M396890	12-375	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
146.66	148.38	1.72	SST	1.56	91	M396891	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
148.38	150.88	2.50	SLT, SST	2.46	98	M396892	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150.88	153.92	3.04	SLT	2.92	96	M396893	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
153.92	156.97	3.05	SLT	2.87	94	M396894	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
156.97	160.02	3.05	SLT	3.05	100	M396896	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160.02	163.07	3.05	SLT	2.80	92	M396897	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
163.07	166.12	3.05	SLT	2.91	95	M396898	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
166.12	169.16	3.04	SLT	3.03	100	M396899	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
169.16	172.21	3.05	SLT	2.81	92	M396900	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
169.16	172.21	3.05	SLT	2.81	92	M396901	12-379			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
172.21	175.26	3.05	SLT	3.01	99	M396902	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
175.26	178.31	3.05	SLT	2.71	89	M396903	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
178.31	181.36	3.05	SLT	2.97	97	M396904	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.36	183.55	2.19	SLT	2.13	97	M396905	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
183.55	186.00	2.45	SLT	2.20	90	M396906	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
183.55	186.00	2.45	SLT	2.20	90	M396907	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
186.00	187.45	1.45	SLT	1.35	93	M396909	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
187.45	189.66	2.21	SLT	1.84	83	M396910	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
189.66	191.99	2.33	CGL, SLT	2.33	100	M396911	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.99	193.55	1.56	CGL	1.48	95	M396912	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
193.55	196.60	3.05	CGL	2.92	96	M396913	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
196.60	199.64	3.04	CGL	2.92	96	M396914	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
199.64	201.38	1.74	CGL	1.74	100	M396915	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
201.38	204.28	2.90	CGL	2.84	98	M396916	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
204.28	205.74	1.46	CGL	1.33	91	M396917	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
205.74	208.79	3.05	CGL	2.56	84	M396918	12-379			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
208.79	211.84	3.05	CGL	2.83	93	M396919	12-379		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
211.84	214.88	3.04	SLT	2.70	89	M396921	12-379		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
214.88	220.98	6.10	SLT	5.97	98	N830530	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
220.98	227.08	6.10	SST	5.81	95	N830531	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
227.08	233.17	6.09	SST	5.97	98	N830532	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
233.17	239.27	6.10	SST	5.94	97	N830533	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
239.27	245.36	6.09	CGL	5.85	96	N830534	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
245.36	251.46	6.10	CGL	5.73	94	N830535	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
251.46	257.56	6.10	CGL	6.10	100	N830536	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
257.56	263.65	6.09	CGL	6.05	99	N830537	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
263.65	269.75	6.10	SLT	6.04	99	N830538	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
269.75	275.84	6.09	SLT	6.01	99	N830539	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
275.84	281.94	6.10	CGL	6.07	100	N830540	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
281.94	288.04	6.10	SLT	5.63	92	N830541	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
288.04	294.13	6.09	SLT	5.95	98	N830542	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
294.13	300.23	6.10	SLT	5.99	98	N830543	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
300.23	306.32	6.09	SST	6.01	99	N830544	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
306.32	312.42	6.10	SST	6.10	100	N830545	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
312.42	318.52	6.10	SST	6.05	99	N830546	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
318.52	324.61	6.09	SST	6.06	100	N830547	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
324.61	330.71	6.10	CGL	6.04	99	N830548	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
330.71	336.80	6.09	CGL	5.90	97	N830549	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
336.80	342.90	6.10	CGL	5.60	92	N830550	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
342.90	349.00	6.10	SST	5.98	98	N830551	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
349.00	355.09	6.09	CGL	6.04	99	N830552	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
355.09	361.19	6.10	CGL	6.05	99	N830553	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
361.19	364.24	3.05	CGL	3.04	100	M396922	12-379		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
364.24	367.28	3.04	CGL	2.93	96	M396923	12-379		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
367.28	370.33	3.05	SST	3.05	100	M396924	12-379		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
370.33	373.38	3.05	SST	2.97	97	M396926	12-379		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
373.38	376.43	3.05	SST	2.84	93	M396927	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
376.43	379.48	3.05	SST	2.88	94	M396928	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
379.48	382.52	3.04	SST	2.96	97	M396929	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
382.52	385.57	3.05	SST	2.86	94	M396930	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
385.57	388.00	2.43	SST	2.30	95	M396932	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
388.00	389.25	1.25	SST	1.20	96	M396933	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
389.25	391.67	2.42	SST, LST	2.25	93	M396934	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
391.67	394.72	3.05	LST	2.91	95	M396935	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
391.67	394.72	3.05	LST	2.91	95	M396936	12-383	M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
394.72	397.76	3.04	LST	3.01	99	M396937	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
397.76	400.81	3.05	LST	3.05	100	M396938	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
400.81	403.86	3.05	LST	3.05	100	M396940	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
403.86	406.91	3.05	LST	3.00	98	M396941	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
406.91	409.96	3.05	LST	3.01	99	M396942	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
409.96	413.00	3.04	LST	3.02	99	M396943	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
413.00	416.05	3.05	LST	3.05	100	M396945	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
416.05	419.10	3.05	LST	3.05	100	M396946	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
419.10	422.15	3.05	LST	2.93	96	M396947	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
422.15	425.20	3.05	LST	2.95	97	M396948	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
425.20	428.24	3.04	LST	3.04	100	M396949	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
428.24	431.29	3.05	LST	2.91	95	M396950	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
431.29	434.34	3.05	LST	3.05	100	M396951	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
434.34	437.39	3.05	LST	3.05	100	M396952	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
434.34	437.39	3.05	LST	3.05	100	M396953	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
437.39	440.44	3.05	LST	3.05	100	M396954	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
440.44	443.48	3.04	LST	3.04	100	M396955	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
443.48	446.53	3.05	LST	3.05	100	M396956	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
446.53	449.58	3.05	LST	3.05	100	M396957	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
449.58	452.63	3.05	LST	3.05	100	M396958	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
452.63	455.68	3.05	LST	3.00	98	M396959	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
455.68	458.72	3.04	LST	2.93	96	M396960	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
458.72	461.77	3.05	LST	3.01	99	M396962	12-383	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
461.77	464.82	3.05	LST	3.05	100	M396963	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
464.82	467.87	3.05	LST	2.91	95	M396964	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
464.82	467.87	3.05	LST	2.91	95	M396965	12-386	M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
467.87	470.92	3.05	LST	3.04	100	M396966	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
470.92	473.96	3.04	LST	3.04	100	M396967	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
473.96	477.01	3.05	LST	3.04	100	M396968	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
477.01	480.06	3.05	LST	3.05	100	M396970	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
480.06	483.11	3.05	LST	2.93	96	M396971	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
483.11	486.16	3.05	LST	3.05	100	M396972	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
486.16	489.20	3.04	LST	3.04	100	M396974	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
489.20	492.25	3.05	LST	3.05	100	M396975	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
492.25	495.30	3.05	LST	3.00	98	M396976	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
495.30	498.35	3.05	LST	3.02	99	M396977	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
498.35	501.40	3.05	LST	3.05	100	M396978	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
501.40	504.44	3.04	LST	3.01	99	M396980	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
504.44	507.49	3.05	LST	3.01	99	M396981	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
507.49	510.54	3.05	LST	3.05	100	M396982	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
510.54	513.59	3.05	LST	3.05	100	M396983	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
513.59	516.64	3.05	LST	3.05	100	M396984	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
516.64	519.68	3.04	LST	3.04	100	M396985	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
516.64	519.68	3.04	LST	3.04	100	M396986	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
519.68	522.73	3.05	LST	3.05	100	M396987	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
522.73	525.78	3.05	LST	3.03	99	M396988	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
525.78	528.83	3.05	LST	3.04	100	M396989	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
528.83	531.88	3.05	LST	3.05	100	M396990	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
531.88	534.92	3.04	LST	3.04	100	M396991	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
534.92	537.97	3.05	LST	2.98	98	M396992	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
537.97	541.02	3.05	LST	3.04	100	M396994	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
541.02	544.07	3.05	LST	3.05	100	M396995	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
544.07	547.12	3.05	LST	2.89	95	M396996	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
547.12	550.16	3.04	LST	3.04	100	M396997	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
550.16	553.21	3.05	LST	3.05	100	M396998	12-386	M	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
553.21	556.26	3.05	LST	3.05	100	M396999	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
556.26	559.31	3.05	LST	3.05	100	M397000	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
559.31	562.36	3.05	LST	3.05	100	M400201	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
562.36	565.40	3.04	LST	3.04	100	M400202	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
565.40	568.45	3.05	SLT, LST	3.00	98	M400204	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
568.45	571.50	3.05	SLT	3.00	98	M400205	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
571.50	574.55	3.05	SLT	2.92	96	M400206	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
574.55	577.60	3.05	SLT	3.00	98	M400208	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
577.60	580.64	3.04	SLT	2.98	98	M400209	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
580.64	583.69	3.05	SLT	2.75	90	M400210	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
583.69	586.74	3.05	SLT	2.70	89	M400211	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
586.74	589.79	3.05	SLT	2.40	79	M400212	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
586.74	589.79	3.05	SLT	2.40	79	M400213	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
589.79	592.84	3.05	SLT	2.56	84	M400214	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
592.84	595.88	3.04	SLT, MST	2.95	97	M400215	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
595.88	598.93	3.05	MST	3.05	100	M400216	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
598.93	601.98	3.05	MST	3.05	100	M400217	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
601.98	605.03	3.05	MST	2.85	93	M400218	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
605.03	608.08	3.05	MST	3.05	100	M400219	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
608.08	611.12	3.04	MST	3.04	100	M400221	12-389		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
611.12	614.17	3.05	MST	3.05	100	M400222	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
614.17	617.22	3.05	MST	3.05	100	M400223	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
617.22	620.27	3.05	MST	3.05	100	M400224	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
620.27	623.32	3.05	MST	3.05	100	M400226	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
620.27	623.32	3.05	MST	3.05	100	M400227	12-389			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
623.32	626.36	3.04	MST	3.04	100	M400228	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		630779	7112517	1340.42	596.79

**ZONE:** Conrad  
**SECTION:** C800E

**HOLE: OS -12-197**

**CLAIM:** Sten 26

Contractor: Superior

Drill: 6

Core Size: HQ-NQ

Casing Depth: 6.1m, Out

Drilling Dates: Sep 20 - Sep 28, 2012

Geology Logged By: I. Ames

SURVEY			
Depth (m)	Azimuth	Dip	Method
24.07	16.82	-84.2	Reflex
596.79	37.92	-85.8	Reflex

**TARGET:** Limestone anticline hinge and contact between SLC/LS

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2	2	OVB
2	39.01	37.01	MST
39.01	46.63	7.62	SLT
46.63	57.3	10.67	LST
57.3	282.38	225.08	SLT
282.38	320.69	38.31	INT
320.69	596.79	276.1	LST

SAMPLES	
Numbers:	M398503 to M398550, M398951 to M398957, M398959 to M399000, M399201 to M399250, M399401 to M399429, N830521 to N830529,
Total:	208
Batch:	373, 382, 387, 388, 389, 391, C13, C14
Certificates:	WH12226811, WH12226813, WH12229202, WH12233187, WH12233302, WH12233303, WH12233304, WH12233306, WH12252011

COMMENTS
Hole shutdown in unmineralized limestone

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.00	2.00	OVB	--	No recovery.	--	--	--	--	--	--	0
2.00	39.01	37.01	MST	VF	Fractured to rubbly mudstone showing pervasive oxidation. Metre scale intervals of gouge are present.			MA				
						LT	BN	FR				
						LT	GY	RB	OXI	4I	--	0
39.01	46.63	7.62	SLT	VF	Interval of highly fractured fissile siltstone.			FR				
						DK	GY	RB	OXI	1I	--	0
46.63	57.30	10.67	LST	VF	Rubbly interval of lime mudstone with extensive calcite veining/mosaic breccia.			FR				
						MD	GY	RB				
						LT	GY	CR	OXI	1I	--	0
57.30	282.38	225.08	SLT	VF	Fracture to rubbly siltstone with intermittent bedding, exhibiting multiple deformation events.			BD				
								FR				
						LT	GY	RB	---	--	Py	0.5
282.38	320.69	38.31	INT	MG	Conrad intrusive with siliciclastic and limestone interbedded within							
						MD	GY	PO	---	--	Py	0.1
320.69	596.79	276.10	LST	MG	Conrad limestone							
						MD	GY	BD	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.00	2.00	2	100	0.00	0	OR	--	--	
2.00	3.05	1.05	0.7	67	0.00	0	1R	3H	2W	
3.05	4.57	1.52	0.65	43	0.00	0	1R	3H	4W	
4.57	5.49	0.92	0.59	64	0.35	38	1R	3H	4W	
5.49	7.01	1.52	0.86	57	0.51	34	1R	3H	4W	
7.01	8.53	1.52	0.45	30	0.00	0	1R	3H	4W	
8.53	10.06	1.53	0.84	55	0.33	22	1R	3H	4W	
10.06	11.58	1.52	1.32	87	0.22	14	1R	3H	4W	
11.58	13.11	1.53	0.97	63	0.79	52	1R	3H	4W	
13.11	14.63	1.52	1.52	100	0.49	32	1R	3H	4W	
14.63	16.15	1.52	1.49	98	0.96	63	1R	3H	4W	
16.15	17.68	1.53	1.41	92	0.86	56	1R	3H	4W	
17.68	19.20	1.52	1.46	96	1.03	68	2R	3H	4W	
19.20	20.73	1.53	1.37	90	0.57	37	2R	2H	4W	
20.73	22.25	1.52	1.32	87	0.24	16	2R	2H	4W	
22.25	23.77	1.52	1.32	87	0.87	57	2R	2H	4W	
23.77	25.30	1.53	1.14	75	0.11	7	1R	2H	4W	
25.30	26.82	1.52	0.91	60	0.12	8	1R	2H	4W	
26.82	28.35	1.53	1.08	71	0.84	55	1R	2H	4W	
28.35	29.87	1.52	1.32	87	0.54	36	1R	2H	4W	
29.87	31.39	1.52	1.52	100	0.23	15	1R	2H	4W	
31.39	32.92	1.53	1.44	94	0.29	19	1R	2H	4W	
32.92	34.44	1.52	1.13	74	0.51	34	1R	2H	4W	
34.44	35.97	1.53	1.3	85	0.15	10	1R	3H	3W	
35.97	37.49	1.52	1.33	88	0.11	7	1R	3H	3W	
37.49	39.01	1.52	1.23	81	0.00	0	1R	2H	3W	
39.01	40.54	1.53	1.06	69	0.53	35	1R	2H	3W	
40.54	42.06	1.52	1.05	69	0.00	0	1R	2H	3W	
42.06	43.59	1.53	1.53	100	0.00	0	1R	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
43.59	45.11	1.52	1.23	81	0.00	0	1R	3H	3W	
45.11	46.63	1.52	1.52	100	0.00	0	2R	3H	3W	
46.63	48.16	1.53	1.53	100	0.37	24	3R	3H	3W	
48.16	49.68	1.52	1.52	100	0.11	7	3R	3H	3W	
49.68	51.21	1.53	1.34	88	0.00	0	3R	2H	3W	
51.21	52.73	1.52	1.48	97	0.00	0	3R	2H	3W	
52.73	54.25	1.52	1.49	98	0.23	15	3R	3H	3W	
54.25	55.78	1.53	1.35	88	0.10	7	3R	4H	3W	
55.78	57.30	1.52	1.52	100	0.25	16	2R	4H	3W	
57.30	58.83	1.53	1.45	95	0.20	13	2R	3H	2W	
58.83	60.35	1.52	1.47	97	0.24	16	1R	2H	1W	
60.35	61.87	1.52	1.46	96	0.16	11	1R	2H	2W	
61.87	63.40	1.53	1.53	100	0.13	8	1R	2H	2W	
63.40	64.92	1.52	1.41	93	0.00	0	1R	3H	2W	
64.92	66.45	1.53	1.49	97	0.52	34	1R	3H	2W	
66.45	67.97	1.52	1.36	89	0.35	23	1R	3H	2W	
67.97	69.49	1.52	1.47	97	0.77	51	1R	4H	2W	
69.49	71.02	1.53	1.43	93	0.23	15	1R	4H	2W	
71.02	72.54	1.52	1.52	100	0.12	8	1R	4H	2W	
72.54	74.07	1.53	1.42	93	0.53	35	1R	3H	2W	
74.07	75.59	1.52	1.52	100	0.84	55	0R	3H	2W	
75.59	77.11	1.52	1.51	99	0.82	54	0R	3H	2W	
77.11	78.64	1.53	1.47	96	0.37	24	1R	3H	2W	
78.64	80.16	1.52	1.46	96	0.78	51	2R	3H	2W	
80.16	81.69	1.53	1.53	100	1.33	87	2R	3H	2W	
81.69	83.21	1.52	1.51	99	0.83	55	2R	3H	2W	
83.21	84.73	1.52	1.52	100	0.95	63	2R	3H	2W	
84.73	86.26	1.53	1.49	97	1.34	88	2R	3H	2W	
86.26	87.78	1.52	1.52	100	1.10	72	2R	3H	2W	
87.78	89.31	1.53	1.39	91	0.98	64	2R	3H	2W	
89.31	90.83	1.52	1.47	97	0.86	57	2R	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
90.83	92.35	1.52	1.37	90	0.76	50	2R	3H	2W	
92.35	93.88	1.53	1.36	89	0.78	51	2R	3H	2W	
93.88	95.40	1.52	1.52	100	1.04	68	2R	3H	2W	
95.40	96.93	1.53	1.26	82	0.81	53	2R	3H	2W	
96.93	98.45	1.52	1.52	100	1.19	78	2R	3H	2W	
98.45	99.97	1.52	1.52	100	1.43	94	2R	3H	2W	
99.97	101.50	1.53	1.53	100	1.19	78	2R	3H	2W	
101.50	103.02	1.52	1.45	95	0.72	47	2R	3H	2W	
103.02	104.55	1.53	1.39	91	0.61	40	3R	3H	2W	
104.55	106.07	1.52	1.49	98	0.89	59	3R	3H	2W	
106.07	107.59	1.52	1.42	93	1.26	83	3R	3H	2W	
107.59	109.12	1.53	1.19	78	0.12	8	2R	3H	2W	
109.12	110.64	1.52	1.52	100	1.04	68	2R	3H	2W	
110.64	112.17	1.53	1.38	90	1.38	90	2R	3H	2W	
112.17	113.69	1.52	1.52	100	1.26	83	2R	3H	2W	
113.69	115.21	1.52	1.52	100	1.52	100	2R	3H	2W	
115.21	116.74	1.53	1.47	96	1.21	79	2R	3H	2W	
116.74	118.26	1.52	1.52	100	1.30	86	2R	3H	2W	
118.26	119.79	1.53	1.52	99	1.49	97	2R	3H	2W	
119.79	121.31	1.52	1.52	100	1.42	93	2R	3H	2W	
121.31	122.83	1.52	1.47	97	1.47	97	2R	3H	2W	
122.83	124.36	1.53	1.53	100	1.46	95	2R	3H	2W	
124.36	125.88	1.52	1.52	100	1.38	91	0R	3H	2W	
125.88	127.41	1.53	1.53	100	0.88	58	0R	4H	2W	
127.41	128.93	1.52	1.31	86	0.53	35	0R	4H	2W	
128.93	130.45	1.52	1.48	97	0.91	60	0R	4H	2W	
130.45	133.50	3.05	2.8	92	2.04	67	0R	4H	2W	.39m of run is HQ, 2.41m is NQ.
133.50	136.55	3.05	2.77	91	1.00	33	0R	4H	2W	
136.55	139.60	3.05	2.94	96	2.27	74	0R	4H	2W	
139.60	142.65	3.05	3.05	100	1.89	62	0R	3H	2W	
142.65	145.69	3.04	3	99	2.24	74	0R	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
145.69	148.74	3.05	2.98	98	2.70	89	OR	5H	2W	
148.74	151.79	3.05	2.96	97	2.81	92	OR	5H	2W	
151.79	154.84	3.05	3.02	99	3.02	99	OR	4H	2W	
154.84	157.89	3.05	2.89	95	1.96	64	OR	4H	2W	
157.89	160.93	3.04	2.81	92	1.66	55	OR	4H	2W	
160.93	163.98	3.05	3.01	99	2.70	89	OR	3H	2W	
163.98	167.03	3.05	2.97	97	2.39	78	OR	3H	2W	
167.03	170.08	3.05	3.05	100	2.73	90	OR	3H	2W	
170.08	173.13	3.05	3.01	99	2.71	89	OR	3H	1W	
173.13	176.17	3.04	3	99	2.79	92	OR	3H	1W	
176.17	179.22	3.05	3.05	100	2.66	87	OR	4H	2W	
179.22	182.27	3.05	2.71	89	2.36	77	OR	4H	2W	
182.27	185.32	3.05	3.05	100	2.28	75	OR	4H	2W	
185.32	188.37	3.05	2.76	90	2.08	68	1R	4H	2W	
188.37	191.41	3.04	2.92	96	2.38	78	OR	3H	2W	
191.41	194.46	3.05	2.97	97	2.10	69	1R	4H	2W	
194.46	197.51	3.05	2.99	98	2.31	76	OR	4H	2W	
197.51	200.56	3.05	2.93	96	2.33	76	OR	4H	2W	
200.56	203.61	3.05	2.99	98	2.49	82	OR	3H	2W	
203.61	206.65	3.04	3.04	100	1.95	64	OR	3H	2W	
206.65	209.70	3.05	2.87	94	2.87	94	OR	3H	1W	
209.70	212.75	3.05	2.81	92	2.22	73	OR	3H	1W	
212.75	215.80	3.05	2.9	95	1.85	61	OR	4H	1W	
215.80	218.85	3.05	2.89	95	2.52	83	OR	4H	1W	
218.85	221.89	3.04	2.95	97	1.64	54	OR	4H	1W	
221.89	224.94	3.05	2.98	98	2.84	93	OR	4H	1W	
224.94	227.99	3.05	3.02	99	2.26	74	OR	4H	1W	
227.99	231.04	3.05	2.97	97	2.35	77	OR	4H	1W	
231.04	234.09	3.05	3.05	100	2.63	86	OR	4H	1W	
234.09	237.13	3.04	3.04	100	2.74	90	OR	4H	1W	
237.13	240.18	3.05	2.86	94	1.66	54	OR	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
240.18	243.23	3.05	2.93	96	2.12	70	0R	3H	1W	
243.23	246.28	3.05	3.05	100	2.60	85	0R	3H	1W	
246.28	249.33	3.05	2.79	91	1.76	58	0R	3H	1W	
249.33	252.37	3.04	2.93	96	1.67	55	0R	3H	1W	
252.37	255.42	3.05	2.89	95	1.71	56	0R	4H	1W	
255.42	258.47	3.05	3.05	100	2.46	81	0R	4H	1W	
258.47	261.52	3.05	2.84	93	2.14	70	0R	4H	1W	
261.52	264.57	3.05	3.01	99	1.81	59	0R	4H	1W	
264.57	267.61	3.04	2.96	97	1.90	63	0R	4H	1W	
267.61	270.66	3.05	2.89	95	1.63	53	0R	4H	1W	
270.66	273.71	3.05	3.05	100	0.99	32	0R	4H	1W	
273.71	276.76	3.05	2.89	95	1.63	53	0R	4H	1W	
276.76	279.81	3.05	3.05	100	1.82	60	0R	4H	1W	
279.81	282.85	3.04	2.88	95	1.50	49	0R	4H	1W	
282.85	285.90	3.05	3.05	100	1.29	42	0R	4H	1W	
285.90	288.95	3.05	2.93	96	1.48	49	0R	4H	1W	
288.95	292.00	3.05	3.05	100	1.19	39	0R	4H	1W	
292.00	295.04	3.04	3.04	100	1.74	57	0R	4H	1W	
295.04	298.09	3.05	2.93	96	2.01	66	0R	4H	1W	
298.09	301.14	3.05	3.05	100	1.87	61	3R	4H	1W	
301.14	304.19	3.05	2.86	94	1.93	63	4R	4H	1W	
304.19	307.24	3.05	3.05	100	2.09	69	4R	4H	1W	
307.24	310.29	3.05	2.98	98	2.15	70	3R	4H	1W	
310.29	313.33	3.04	2.99	98	2.52	83	2R	4H	1W	
313.33	316.38	3.05	3.05	100	2.91	95	3R	4H	1W	
316.38	319.43	3.05	3.05	100	2.76	90	1R	4H	1W	
319.43	322.48	3.05	2.98	98	2.32	76	2R	4H	1W	
322.48	325.53	3.05	3.05	100	2.08	68	4R	3H	1W	
325.53	328.57	3.04	3.04	100	2.75	90	4R	4H	1W	
328.57	331.62	3.05	3.03	99	2.37	78	4R	3H	1W	
331.62	334.67	3.05	3.02	99	2.67	88	4R	4H	1W	



From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
334.67	337.72	3.05	3.05	100	2.86	94	4R	4H	1W	
337.72	340.77	3.05	3.05	100	2.51	82	4R	4H	1W	
340.77	343.81	3.04	3.04	100	2.71	89	4R	4H	1W	
343.81	346.86	3.05	3	98	2.19	72	4R	4H	1W	
346.86	349.91	3.05	3.05	100	2.92	96	4R	4H	1W	
349.91	352.96	3.05	2.99	98	2.99	98	4R	4H	1W	
352.96	356.01	3.05	3.05	100	2.92	96	4R	4H	1W	
356.01	359.05	3.04	3.04	100	2.88	95	4R	4H	1W	
359.05	362.10	3.05	3.05	100	2.58	85	4R	4H	1W	
362.10	365.15	3.05	3.02	99	2.57	84	4R	4H	1W	
365.15	368.20	3.05	2.91	95	2.46	81	4R	4H	1W	
368.20	371.25	3.05	3	98	2.15	70	4R	4H	1W	
371.25	374.29	3.04	3.04	100	2.69	88	4R	3H	1W	
374.29	377.34	3.05	3.02	99	2.65	87	4R	4H	1W	
377.34	380.39	3.05	3.05	100	2.77	91	4R	4H	1W	
380.39	383.44	3.05	2.96	97	2.61	86	4R	4H	1W	
383.44	386.49	3.05	3.01	99	2.70	89	4R	4H	1W	
386.49	389.53	3.04	3.04	100	2.77	91	4R	4H	1W	
389.53	392.58	3.05	3.03	99	2.54	83	4R	4H	1W	
392.58	395.63	3.05	3.05	100	1.94	64	4R	4H	1W	
395.63	398.68	3.05	3.05	100	2.79	91	4R	4H	1W	
398.68	401.73	3.05	3.05	100	2.61	86	4R	3H	1W	
401.73	404.77	3.04	2.85	94	2.14	70	4R	4H	1W	
404.77	407.82	3.05	3.01	99	2.78	91	4R	4H	1W	
407.82	410.87	3.05	3.05	100	2.71	89	4R	4H	1W	
410.87	413.92	3.05	3.05	100	2.81	92	4R	4H	1W	
413.92	416.97	3.05	3.05	100	2.18	71	4R	4H	1W	
416.97	420.01	3.04	3.04	100	2.85	94	4R	4H	1W	
420.01	423.06	3.05	2.91	95	2.87	94	4R	4H	1W	
423.06	426.11	3.05	3.05	100	2.91	95	4R	4H	1W	
426.11	429.16	3.05	3.05	100	2.95	97	4R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
429.16	432.21	3.05	3.05	100	2.82	92	4R	4H	1W	
432.21	435.25	3.04	3.04	100	3.04	100	4R	4H	1W	
435.25	438.30	3.05	2.98	98	2.98	98	4R	4H	1W	
438.30	441.35	3.05	3.05	100	2.82	92	4R	4H	1W	
441.35	444.40	3.05	3.01	99	3.01	99	4R	4H	1W	
444.40	447.45	3.05	3.05	100	3.00	98	4R	4H	1W	
447.45	450.49	3.04	3.04	100	2.77	91	4R	4H	1W	
450.49	453.54	3.05	3.05	100	2.83	93	4R	4H	1W	
453.54	456.59	3.05	2.99	98	2.99	98	4R	4H	1W	
456.59	459.64	3.05	3.02	99	2.94	96	4R	4H	1W	
459.64	462.69	3.05	3.05	100	2.47	81	4R	4H	1W	
462.69	465.73	3.04	2.99	98	2.87	94	4R	4H	1W	
465.73	468.78	3.05	3.05	100	2.75	90	4R	4H	1W	
468.78	471.83	3.05	3.05	100	2.64	87	4R	4H	1W	
471.83	474.88	3.05	3.05	100	2.57	84	4R	4H	1W	
474.88	477.93	3.05	3.05	100	2.82	92	4R	4H	1W	
477.93	480.97	3.04	3.04	100	2.85	94	4R	4H	1W	
480.97	484.02	3.05	3.05	100	2.80	92	4R	4H	1W	
484.02	487.07	3.05	3.05	100	2.99	98	4R	4H	1W	
487.07	490.12	3.05	2.88	94	2.42	79	4R	4H	1W	
490.12	493.17	3.05	3.05	100	2.76	90	4R	4H	1W	
493.17	496.21	3.04	3.03	100	3.03	100	4R	4H	1W	
496.21	499.26	3.05	3.05	100	2.92	96	4R	4H	1W	
499.26	502.31	3.05	2.94	96	2.69	88	4R	4H	1W	
502.31	505.36	3.05	2.94	96	2.69	88	4R	4H	1W	
505.36	508.41	3.05	3.05	100	3.05	100	4R	4H	1W	
508.41	511.45	3.04	3.04	100	3.00	99	4R	4H	1W	
511.45	514.50	3.05	3.05	100	3.02	99	4R	4H	1W	
514.50	517.55	3.05	3.05	100	3.00	98	4R	4H	1W	
517.55	520.60	3.05	3.05	100	3.00	98	4R	4H	1W	
520.60	523.65	3.05	3.05	100	2.99	98	4R	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
523.65	526.69	3.04	3.04	100	3.02	99	4R	4H	1W	
526.69	529.74	3.05	3.03	99	2.99	98	4R	4H	1W	
529.74	532.79	3.05	2.97	97	2.77	91	4R	4H	1W	
532.79	535.84	3.05	3.05	100	2.68	88	4R	4H	1W	
535.84	538.89	3.05	3.05	100	3.05	100	4R	3H	1W	
538.89	541.93	3.04	2.99	98	2.99	98	4R	4H	1W	
541.93	544.98	3.05	3.01	99	2.62	86	4R	4H	1W	
544.98	548.03	3.05	3.05	100	2.82	92	4R	4H	1W	
548.03	551.08	3.05	3.05	100	3.05	100	4R	4H	1W	
551.08	554.13	3.05	3.03	99	2.92	96	4R	4H	1W	
554.13	557.17	3.04	2.93	96	2.93	96	4R	4H	1W	
557.17	560.22	3.05	3.05	100	3.05	100	4R	4H	1W	
560.22	563.27	3.05	3.02	99	2.81	92	4R	4H	1W	
563.27	566.32	3.05	3.02	99	2.90	95	4R	4H	1W	
566.32	569.37	3.05	3.05	100	2.60	85	4R	4H	1W	
569.37	572.41	3.04	3.04	100	2.90	95	4R	4H	1W	
572.41	575.46	3.05	3.05	100	2.40	79	4R	4H	1W	
575.46	578.51	3.05	3.05	100	2.50	82	4R	4H	1W	
578.51	581.56	3.05	3.02	99	1.00	33	4R	4H	1W	
581.56	584.61	3.05	3	98	2.80	92	4R	4H	1W	
584.61	587.65	3.04	3.04	100	2.50	82	4R	4H	1W	
587.65	590.70	3.05	3.05	100	2.40	79	4R	4H	1W	
590.70	593.75	3.05	3.05	100	2.70	89	4R	4H	1W	
593.75	596.79	3.04	3.04	100	2.41	79	4R	4H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M399216	12-388	B	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399421	12-391	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399416	12-391	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399409	12-391	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399244	12-391	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398507	12-373	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399224	12-388	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399208	12-388	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399203	12-387	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398529	12-373	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M399237	12-388	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398521	12-373	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398996	12-387	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398537	12-382	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398543	12-382	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398951	12-382	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398979	12-387	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398983	12-387	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398512	12-373	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.00	4.57	2.57	OVB, MST	1.35	53	M398503	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.57	7.01	2.44	MST	1.45	59	M398504	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.01	10.06	3.05	MST	1.29	42	M398505	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.06	13.11	3.05	MST	2.29	75	M398506	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.11	16.15	3.04	MST	3.01	99	M398508	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.15	19.20	3.05	MST	2.87	94	M398509	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.20	22.25	3.05	MST	2.69	88	M398510	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.25	25.30	3.05	MST	2.46	81	M398511	12-373	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.30	28.35	3.05	MST	1.99	65	M398513	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28.35	31.39	3.04	MST	2.84	93	M398514	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31.39	34.44	3.05	MST	2.57	84	M398515	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31.39	34.44	3.05	MST	2.57	84	M398516	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
34.44	37.49	3.05	MST	2.63	86	M398517	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
37.49	39.01	1.52	MST	1.23	81	M398518	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
39.01	42.06	3.05	MST, SLT	2.11	69	M398519	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
42.06	45.11	3.05	SLT	2.76	90	M398520	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
45.11	46.63	1.52	SLT	1.52	100	M398522	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46.63	49.68	3.05	LST, SLT	3.05	100	M398523	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.68	52.73	3.05	LST	2.82	92	M398524	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.73	55.78	3.05	LST	2.84	93	M398525	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.78	57.30	1.52	LST	1.52	100	M398526	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57.30	60.35	3.05	SLT, LST	2.92	96	M398527	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60.35	63.40	3.05	SLT	2.99	98	M398528	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.40	66.45	3.05	SLT	2.90	95	M398530	12-373	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.40	66.45	3.05	SLT	2.90	95	M398531	12-373	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
66.45	69.49	3.04	SLT	2.83	93	M398532	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.49	75.59	6.10	SLT	5.89	97	N830521	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.59	81.69	6.10	SLT	5.97	98	N830522	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.69	87.78	6.09	SLT	6.04	99	N830523	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.78	93.88	6.10	SLT	5.59	92	N830524	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.88	99.97	6.09	SLT	5.82	96	N830525	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.97	106.27	6.30	SLT	5.86	93	N830526	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
106.27	112.17	5.90	SLT	5.51	93	N830527	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
112.17	118.26	6.09	SLT	6.03	99	N830528	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
118.26	122.83	4.57	SLT	4.51	99	N830529	12-C13	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
122.83	128.93	6.10	SLT	5.89	97	N830554	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
128.93	133.50	4.57	SLT	4.28	94	N830555	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133.50	136.55	3.05	SLT	2.77	91	M398533	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
136.55	139.60	3.05	SLT	2.94	96	M398534	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
139.60	142.65	3.05	SLT	3.05	100	M398535	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142.65	144.75	2.10	SLT	2.10	100	M398536	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
144.75	147.10	2.35	SLT	2.35	100	M398538	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
147.10	152.00	4.90	SLT	4.90	100	N830556	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
152.00	157.89	5.89	SLT	5.68	96	N830557	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
157.89	163.98	6.09	SLT	5.81	95	N830558	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
163.98	170.08	6.10	SLT	6.02	99	N830559	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
170.08	173.13	3.05	SLT	3.01	99	N830560	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
173.13	177.95	4.82	SLT	4.78	99	N830561	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
177.95	182.27	4.32	SLT	4.20	97	N830562	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
182.27	185.08	2.81	SLT	2.81	100	N830563	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
185.08	188.37	3.29	SLT	2.94	89	N830564	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
188.37	194.46	6.09	SLT	5.89	97	N830565	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
194.46	200.56	6.10	SLT	5.92	97	N830566	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
200.56	206.65	6.09	SLT	6.03	99	N830567	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
206.65	212.75	6.10	SLT	5.68	93	N830568	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
212.75	218.85	6.10	SLT	5.79	95	N830569	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
218.85	224.94	6.09	SLT	5.93	97	N830570	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
224.94	231.04	6.10	SLT	5.99	98	N830571	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
231.04	237.13	6.09	SLT	6.09	100	N830572	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
237.13	243.23	6.10	SLT	6.02	99	N830573	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
243.23	249.33	6.10	SLT	5.84	96	N830574	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
249.33	255.42	6.09	SLT	5.92	97	N830575	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
255.42	261.52	6.10	SLT	5.89	97	N830576	12-C14	Chip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
261.52	264.57	3.05	SLT	3.01	99	M398539	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
264.57	267.61	3.04	SLT	2.96	97	M398540	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
267.61	270.66	3.05	SLT	2.89	95	M398541	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
270.66	273.71	3.05	SLT	3.05	100	M398542	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
273.71	275.17	1.46	SLT	1.43	98	M398544	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
275.17	276.76	1.59	SLT	1.40	88	M398545	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
276.76	279.81	3.05	SLT	3.05	100	M398546	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
276.76	279.81	3.05	SLT	3.05	100	M398547	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
279.81	282.38	2.57	SLT	2.54	99	M398548	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
282.38	284.00	1.62	SLT, INT	1.47	91	M398549	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
284.00	285.90	1.90	INT	1.90	100	M398550	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
285.90	288.95	3.05	INT	2.93	96	M398952	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
288.95	291.00	2.05	INT	2.05	100	M398953	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
291.00	292.55	1.55	INT	1.55	100	M398954	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
292.55	294.51	1.96	INT	1.96	100	M398955	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
294.51	296.00	1.49	INT	1.49	100	M398956	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
296.00	297.80	1.80	INT	1.80	100	M398957	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
297.80	299.94	2.14	INT	2.07	97	M398959	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
299.94	301.14	1.20	INT	1.20	100	M398960	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
301.14	304.19	3.05	INT	2.86	94	M398961	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
304.19	307.24	3.05	INT	3.05	100	M398962	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
307.24	308.76	1.52	INT	1.52	100	M398963	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
308.76	310.85	2.09	INT	2.07	99	M398964	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
308.76	310.85	2.09	INT	2.07	99	M398965	12-382	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
310.85	313.33	2.48	INT	2.40	97	M398966	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
313.33	315.52	2.19	INT	2.15	98	M398967	12-382	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
315.52	318.00	2.48	INT	2.48	100	M398968	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
318.00	320.69	2.69	INT	2.67	99	M398969	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
320.69	322.48	1.79	LST, INT	1.65	92	M398970	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
322.48	325.53	3.05	LST	3.05	100	M398971	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
325.53	328.57	3.04	LST	3.04	100	M398972	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
325.53	328.57	3.04	LST	3.04	100	M398973	12-387	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
328.57	331.62	3.05	LST	3.03	99	M398974	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
331.62	334.67	3.05	LST	3.02	99	M398975	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
334.67	337.72	3.05	LST	3.05	100	M398976	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
337.72	340.77	3.05	LST	3.05	100	M398977	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
340.77	343.81	3.04	LST	3.04	100	M398978	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
343.81	346.86	3.05	LST	3.05	100	M398980	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
346.86	349.91	3.05	LST	3.05	100	M398981	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
349.91	352.96	3.05	LST	2.99	98	M398982	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
352.96	356.01	3.05	LST	3.05	100	M398984	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
356.01	359.05	3.04	LST	3.04	100	M398985	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
359.05	362.10	3.05	LST	3.05	100	M398986	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
362.10	365.15	3.05	LST	3.02	99	M398987	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
365.15	368.20	3.05	LST	2.91	95	M398988	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
368.20	371.25	3.05	LST	3.00	98	M398989	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
371.25	374.29	3.04	LST	3.04	100	M398990	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
371.25	374.29	3.04	LST	3.04	100	M398991	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
374.29	377.34	3.05	LST	3.02	99	M398992	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
377.34	380.39	3.05	LST	3.05	100	M398993	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
380.39	383.44	3.05	LST	2.96	97	M398994	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
383.44	386.49	3.05	LST	3.01	99	M398995	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
386.49	389.53	3.04	LST	3.04	100	M398997	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
389.53	392.58	3.05	LST	3.03	99	M398998	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
392.58	395.63	3.05	LST	3.05	100	M398999	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
395.63	398.68	3.05	LST	3.05	100	M399000	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
398.68	401.73	3.05	LST	3.05	100	M399201	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
401.73	403.77	2.04	LST	1.90	93	M399202	12-387	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
403.77	404.77	1.00	LST	0.99	99	M399204	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
404.77	407.82	3.05	LST	3.01	99	M399205	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
407.82	410.87	3.05	LST	3.05	100	M399206	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
410.87	413.92	3.05	LST	3.05	100	M399207	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
413.92	416.97	3.05	LST	3.05	100	M399209	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
416.97	420.01	3.04	LST	3.04	100	M399210	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
416.97	420.01	3.04	LST	3.04	100	M399211	12-388	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
420.01	423.06	3.05	LST	2.91	95	M399212	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
423.06	426.11	3.05	LST	3.05	100	M399213	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
426.11	429.16	3.05	LST	3.05	100	M399214	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
429.16	432.21	3.05	LST	3.05	100	M399215	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
432.21	435.25	3.04	LST	3.04	100	M399217	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
435.25	438.30	3.05	LST	2.98	98	M399218	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
438.30	441.35	3.05	LST	3.05	100	M399219	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
441.35	444.40	3.05	LST	3.01	99	M399220	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
444.40	447.45	3.05	LST	3.05	100	M399221	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
447.45	450.49	3.04	LST	3.04	100	M399222	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
450.49	453.54	3.05	LST	3.05	100	M399223	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
453.54	456.59	3.05	LST	2.99	98	M399225	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
456.59	459.64	3.05	LST	3.02	99	M399226	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
459.64	462.69	3.05	LST	3.05	100	M399227	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
459.64	462.69	3.05	LST	3.05	100	M399228	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
462.69	465.73	3.04	LST	2.99	98	M399229	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
465.73	468.78	3.05	LST	3.05	100	M399230	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
468.78	471.83	3.05	LST	3.05	100	M399231	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
471.83	474.88	3.05	LST	3.05	100	M399232	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
474.88	477.93	3.05	LST	3.05	100	M399233	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
477.93	480.97	3.04	LST	3.04	100	M399234	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
480.97	484.02	3.05	LST	3.05	100	M399235	12-388	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
484.02	487.07	3.05	LST	3.05	100	M399236	12-388	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
487.07	490.12	3.05	LST	2.88	94	M399238	12-388	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
490.12	493.17	3.05	LST	3.05	100	M399239	12-388	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
493.17	496.21	3.04	LST	3.03	100	M399240	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
496.21	499.26	3.05	LST	3.05	100	M399241	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
499.26	502.31	3.05	LST	2.94	96	M399242	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
502.31	505.36	3.05	LST	2.94	96	M399243	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
505.36	508.41	3.05	LST	3.05	100	M399245	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
508.41	511.45	3.04	LST	3.04	100	M399246	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
511.45	514.50	3.05	LST	3.05	100	M399247	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
514.50	517.55	3.05	LST	3.05	100	M399248	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
514.50	517.55	3.05	LST	3.05	100	M399249	12-391	B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
517.55	520.60	3.05	LST	3.05	100	M399250	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
520.60	523.65	3.05	LST	3.05	100	M399401	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
523.65	526.69	3.04	LST	3.04	100	M399402	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
526.69	529.74	3.05	LST	3.03	99	M399403	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
529.74	532.79	3.05	LST	2.97	97	M399404	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
532.79	535.84	3.05	LST	3.05	100	M399405	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
535.84	538.89	3.05	LST	3.05	100	M399406	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
538.89	541.93	3.04	LST	2.99	98	M399407	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
541.93	544.98	3.05	LST	3.01	99	M399408	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
544.98	548.03	3.05	LST	3.05	100	M399410	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
548.03	551.08	3.05	LST	3.05	100	M399411	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
551.08	554.13	3.05	LST	3.03	99	M399412	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
554.13	557.17	3.04	LST	2.93	96	M399413	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
557.17	560.22	3.05	LST	3.05	100	M399414	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
560.22	563.27	3.05	LST	3.02	99	M399415	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
563.27	566.32	3.05	LST	3.02	99	M399417	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
563.27	566.32	3.05	LST	3.02	99	M399418	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
566.32	569.37	3.05	LST	3.05	100	M399419	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
569.37	572.41	3.04	LST	3.04	100	M399420	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
572.41	575.46	3.05	LST	3.05	100	M399422	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
575.46	578.51	3.05	LST	3.05	100	M399423	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
578.51	581.56	3.05	LST	3.02	99	M399424	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
581.56	584.61	3.05	LST	3.00	98	M399425	12-391	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
584.61	587.65	3.04	LST	3.04	100	M399426	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
587.65	590.70	3.05	LST	3.05	100	M399427	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
590.70	593.75	3.05	LST	3.05	100	M399428	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
593.75	596.79	3.04	LST	3.04	100	M399429	12-389			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		609053	7115076	1101.12	66.14

**ZONE:** Pyramid

**SECTION:** \_\_\_\_\_

**HOLE: PY -12-006**

**CLAIM:** Jam 15

**Contractor:** Superior

**Drill:** 2

**Core Size:** HQ-NQ

**Casing Depth:** 13.72m, Out

**Drilling Dates:** Aug 19 - Aug 21, 2012

**Geology Logged By:** J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method

**TARGET:** 100-150 m

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.5	0.5	OVB
0.5	15.85	15.35	OVB
15.85	66.14	50.29	SHL

SAMPLES	
Numbers:	M398401 to M398423, M398440 to M398441
Total:	25
Batch:	312, 330
Certificates:	WH12203894, WH12203897, WH12219777

COMMENTS
Hole abandoned to due rods getting stuck/hole condition. All rods were recovered. No downhole survey

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.50	0.50	OVB	--	No Recovery.							
						--	--	--	--	--	--	0
0.50	15.85	15.35	OVB	--	Overburden consisting of brown to grey clayey b horizon material in the upper portion of the interval. Material transitions to highly fractured carbonaceous siltstone in the C horizon at the bottom of the interval.							
						MD	BR					
						DK	GY	---	---	--	--	0
15.85	66.14	50.29	SHL	FG	Platy, soapy, carbonaceous shale. Logged as argillite in holes from previous year. Thin millimetric scale beds of light colored siltstone are consistently present.							
						DK	GY	BD	---	--	--	0

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.13	2.13	0.16	8	0.00	0	OR	1H	4W	
2.13	3.66	1.53	0.31	20	0.00	0	OR	1H	4W	
3.66	5.18	1.52	0.62	41	0.00	0	OR	1H	4W	
5.18	6.71	1.53	0.3	20	0.00	0	OR	1H	4W	
6.71	8.23	1.52	0.68	45	0.00	0	OR	1H	4W	
8.23	9.75	1.52	1.03	68	0.29	19	OR	1H	4W	
9.75	11.28	1.53	1.53	100	0.37	24	OR	1H	4W	
11.28	12.80	1.52	1.22	80	0.35	23	OR	1H	4W	
12.80	14.33	1.53	0.78	51	0.00	0	OR	1H	4W	
14.33	15.85	1.52	0.68	45	0.00	0	OR	1H	4W	
15.85	17.37	1.52	1.1	72	0.00	0	OR	1H	4W	
17.37	18.90	1.53	1.03	67	0.00	0	OR	1H	4W	
18.90	20.42	1.52	1.39	91	0.00	0	OR	2H	3W	
20.42	21.95	1.53	1.2	78	0.00	0	OR	2H	3W	
21.95	23.47	1.52	1.23	81	0.12	8	OR	2H	3W	
23.47	24.99	1.52	1.22	80	0.00	0	OR	2H	2W	
24.99	26.52	1.53	1.21	79	0.00	0	OR	2H	2W	
26.52	28.04	1.52	1.37	90	0.19	13	OR	2H	3W	
28.04	29.57	1.53	1.24	81	0.27	18	OR	2H	3W	
29.57	31.09	1.52	1.39	91	0.15	10	OR	2H	2W	
31.09	32.61	1.52	1.03	68	0.38	25	OR	2H	2W	
32.61	34.14	1.53	1.32	86	0.10	7	OR	2H	2W	
34.14	35.66	1.52	1.35	89	0.38	25	OR	2H	2W	
35.66	37.19	1.53	1.41	92	0.15	10	OR	2H	2W	
37.19	38.71	1.52	1.43	94	0.22	14	OR	2H	2W	
38.71	40.23	1.52	1.39	91	0.00	0	OR	2H	2W	
40.23	41.76	1.53	1.38	90	0.59	39	OR	2H	2W	
41.76	43.28	1.52	1.13	74	0.36	24	OR	2H	2W	
43.28	44.81	1.53	1.33	87	0.55	36	OR	1H	4W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.81	46.33	1.52	1.45	95	0.52	34	OR	2H	3W	
46.33	47.85	1.52	1.26	83	0.00	0	OR	2H	3W	
47.85	49.38	1.53	1.18	77	0.00	0	OR	2H	3W	
49.38	50.90	1.52	1.3	86	0.51	34	OR	2H	3W	
50.90	52.43	1.53	1.22	80	0.11	7	OR	2H	2W	
52.43	53.95	1.52	1.42	93	0.61	40	OR	2H	2W	
53.95	55.47	1.52	1.24	82	0.15	10	OR	2H	2W	
55.47	57.00	1.53	1.16	76	0.10	7	OR	2H	2W	
57.00	58.52	1.52	1.3	86	0.26	17	OR	2H	2W	
58.52	60.05	1.53	1.22	80	0.66	43	OR	2H	3W	
60.05	61.57	1.52	1.23	81	0.11	7	OR	2H	2W	
61.57	63.09	1.52	1.52	100	0.00	0	OR	2H	2W	
63.09	64.62	1.53	0.71	46	0.00	0	OR	2H	2W	
64.62	66.14	1.52	1.52	100	0.12	8	OR	2H	2W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398419	12-312	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398414	12-312	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.50	3.66	3.16	OVB, OVB	1.59	50	M398401	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.66	6.71	3.05	OVB	1.09	36	M398402	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.71	9.75	3.04	OVB	1.88	62	M398403	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.75	12.80	3.05	OVB	2.30	75	M398404	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.80	15.85	3.05	OVB	1.19	39	M398405	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.85	18.90	3.05	OVB, SHL	1.67	55	M398406	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.90	21.95	3.05	SHL	1.85	61	M398407	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.95	24.99	3.04	SHL	2.57	85	M398408	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.99	28.04	3.05	SHL	2.60	85	M398409	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.99	28.04	3.05	SHL	2.60	85	M398410	12-312	B		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28.04	31.09	3.05	SHL	2.67	88	M398411	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.09	34.14	3.05	SHL	2.43	80	M398412	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.14	37.19	3.05	SHL	2.85	93	M398413	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.19	40.23	3.04	SHL	2.99	98	M398415	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.23	43.28	3.05	SHL	2.51	82	M398416	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43.28	46.33	3.05	SHL	2.75	90	M398417	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46.33	49.38	3.05	SHL	2.45	80	M398418	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49.38	52.43	3.05	SHL	2.75	90	M398420	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52.43	55.47	3.04	SHL	2.87	94	M398421	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
55.47	58.52	3.05	SHL	2.48	81	M398422	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58.52	61.57	3.05	SHL	2.61	86	M398423	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61.57	64.62	3.05	SHL	2.23	73	M398440	12-330	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64.62	66.14	1.52	SHL	1.52	100	M398441	12-330	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





# Rackla Gold Property - Nadaleen Trend Project

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		609146	7115062	1093.72	230.73

**ZONE:** Pyramid

**SECTION:** \_\_\_\_\_

**HOLE: PY -12-007**

**CLAIM:** Jam 15

**Contractor:** Superior

**Drill:** 2

**Core Size:** HQ-NQ

**Casing Depth:** 7.62m, Out

**Drilling Dates:** Aug 24 - Aug 27, 2012

**Geology Logged By:** J. Mc Divitt

SURVEY			
Depth (m)	Azimuth	Dip	Method

**TARGET:** 110-140 m

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.81	3.81	OVB
3.81	6.71	2.9	OVB
6.71	126.28	119.57	SHL
126.28	140.35	14.07	LST
140.35	148.44	8.09	SHL
148.44	150.14	1.7	LST
150.14	230.73	80.59	SHL

SAMPLES	
Numbers:	K309632 to K309637, K309639 to K309640, M398424 to M398439, M398442 to M398450, M398551 to M398614
Total:	97
Batch:	312, 325, 330, 333, 337, 347
Certificates:	VA12207634, VA12210454, WH12203894, WH12203896, WH12203897, WH12206334, WH12219777

COMMENTS
Hole ended past target depth and mineralized horizon in carbonaceous shales.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.81	3.81	OVB	--	No Recovery.							
						--	--	--	--	--	--	0
3.81	6.71	2.90	OVB	--	Brown clayey soil to highly fractured shale at the end of the interval. B-C horizon.							
						MD	BN	--	--	--	--	0
6.71	126.28	119.57	SHL	FG	Highly fractured bedded dark grey shale. Thin millimetric bands of light grey siltstone. Material varies from competent to extremely clayey and rubbly. Intermittent strain features are present. Bedding angles vary slightly averaging 50 degrees TCA. Material ranges from sandy to clayey. Competent sections have a soapy feel.							
								SN				
								FR				
						DK	BK	BD	---	--	Py	0.01
126.28	140.35	14.07	LST	--	Variably brecciated, variably dolomitized limestone package. Stylolites post dating calcite veinlets are noted. Realgar mineralization is present at the upper contact with shales. Material is typically rubbly and highly fractured with competent pieces displaying cataclastic breccia textures. Protolith may have been lime micrite and fossiliferous wackestone. Crinoids appear to be present. The hardness of material suggests silicification has occurred. Both upper and lower contacts appear to be faulted contacts.							
								SN	SIL	1I		
						MD	GY	BX	DOL	1I	Re	0.01
140.35	148.44	8.09	SHL	--	Dark extremely carbonaceous shale. Only obvious fabric is a faint, planar, deformation related fabric at 70 degrees TCA.							
						DK	BK	SN	---	--	--	0
148.44	150.14	1.70	LST	--	Brecciated limestone package with calcite veining. Calcite veins post date breccia textures. Breccia texture may be sedimentary in origin. Texturally, the limestone may be a wackestone as abundant fossil fragments are evident. The upper and lower contacts into this interval are likely fault contacts.							
								BX				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	WK	--	-	-	0
150.14	230.73	80.59	SHL	--	Highly carbonaceous, strained, dark colored shale unit. Primary fabric is a deformation related planarity occurring at ~40 degrees TCA. This fabric is defined by deformed bedding and vein fragments as well as banded pyrite. Lighter colored deformed siltstone beds are present. Not necessarily the same as the shale unit intersected at the top of the hole. Material is extremely carbonaceous and friable.							
						DK	BK	FO	---	--	Py	0.01

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.81	3.81	0	0	0.00	0	--	--	--	Overburden.
3.81	5.18	1.37	1.37	100	0.00	0	OR	1H	4W	
5.18	6.71	1.53	0.91	59	0.00	0	OR	1H	4W	
6.71	8.23	1.52	1.22	80	0.00	0	OR	2H	3W	
8.23	9.75	1.52	1.4	92	0.00	0	OR	2H	4W	
9.75	11.28	1.53	1.49	97	0.00	0	OR	2H	3W	
11.28	12.80	1.52	1.2	79	0.00	0	OR	2H	3W	
12.80	14.33	1.53	1.53	100	0.37	24	OR	2H	3W	
14.33	15.85	1.52	1.12	74	0.13	9	OR	2H	3W	
15.85	17.37	1.52	1.15	76	0.26	17	OR	2H	3W	
17.37	18.90	1.53	1.17	76	0.11	7	OR	3H	3W	
18.90	20.42	1.52	1.52	100	0.00	0	OR	2H	3W	
20.42	21.95	1.53	1.38	90	0.44	29	OR	2H	3W	
21.95	23.47	1.52	1.03	68	0.00	0	OR	3H	3W	
23.47	24.99	1.52	1.05	69	0.11	7	OR	2H	4W	
24.99	26.52	1.53	1.33	87	0.72	47	OR	2H	3W	
26.52	28.04	1.52	1.4	92	0.37	24	OR	2H	2W	
28.04	29.57	1.53	1.45	95	0.12	8	OR	2H	3W	
29.57	31.09	1.52	1.36	89	0.15	10	OR	2H	3W	
31.09	32.61	1.52	1.52	100	0.78	51	OR	3H	2W	
32.61	34.14	1.53	0.87	57	0.14	9	OR	3H	2W	
34.14	35.66	1.52	1.31	86	0.13	9	OR	2H	2W	
35.66	37.19	1.53	0.8	52	0.00	0	OR	2H	2W	
37.19	38.71	1.52	1.22	80	0.30	20	OR	2H	3W	
38.71	40.23	1.52	0.99	65	0.00	0	OR	2H	3W	
40.23	41.76	1.53	0.48	31	0.00	0	1R	2H	3W	
41.76	43.28	1.52	1.01	66	0.00	0	OR	1H	3W	
43.28	44.81	1.53	1.53	100	0.62	41	OR	1H	3W	
44.81	46.33	1.52	0.8	53	0.12	8	OR	2H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
46.33	47.85	1.52	1.05	69	0.44	29	OR	2H	2W	
47.85	49.38	1.53	1.1	72	0.00	0	OR	2H	2W	
49.38	50.90	1.52	1.28	84	0.10	7	OR	2H	2W	
50.90	52.43	1.53	1.1	72	0.00	0	OR	2H	3W	
52.43	53.95	1.52	1.35	89	0.42	28	OR	3H	2W	
53.95	55.47	1.52	1.52	100	0.34	22	OR	3H	2W	
55.47	57.00	1.53	1.52	99	0.63	41	OR	3H	2W	
57.00	58.52	1.52	1.37	90	0.75	49	OR	3H	2W	
58.52	60.05	1.53	1.53	100	0.68	44	OR	3H	2W	
60.05	63.09	3.04	2.13	70	0.00	0	OR	3H	3W	
63.09	66.14	3.05	2.56	84	0.00	0	OR	3H	3W	
66.14	69.19	3.05	2.03	67	0.00	0	OR	2H	3W	
69.19	72.24	3.05	2.53	83	0.54	18	OR	2H	3W	
72.24	75.29	3.05	1.43	47	0.00	0	OR	3H	3W	
75.29	78.33	3.04	2.83	93	0.29	10	OR	2H	4W	
78.33	81.38	3.05	2.88	94	0.29	10	OR	2H	4W	
81.38	84.43	3.05	3.01	99	0.29	10	OR	2H	3W	
84.43	87.48	3.05	3.03	99	0.15	5	OR	3H	3W	
87.48	90.53	3.05	2.91	95	0.97	32	OR	2H	3W	
90.53	93.57	3.04	3	99	1.67	55	OR	2H	2W	
93.57	96.62	3.05	2.86	94	1.30	43	OR	3H	1W	
96.62	99.67	3.05	2.13	70	0.47	15	OR	2H	1W	
99.67	102.72	3.05	3.02	99	1.09	36	OR	2H	1W	
102.72	105.77	3.05	2.97	97	1.34	44	OR	3H	1W	
105.77	108.81	3.04	2.58	85	0.63	21	OR	2H	1W	
108.81	111.86	3.05	2.34	77	0.77	25	OR	2H	1W	
111.86	114.91	3.05	2.29	75	0.26	9	OR	2H	1W	
114.91	117.96	3.05	1.71	56	0.28	9	OR	2H	1W	
117.96	121.01	3.05	2.22	73	0.22	7	OR	2H	1W	
121.01	124.05	3.04	2.58	85	0.95	31	OR	3H	1W	
124.05	127.10	3.05	2.69	88	0.46	15	4R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
127.10	130.15	3.05	2.74	90	1.89	62	4R	3H	1W	
130.15	133.20	3.05	2.53	83	1.56	51	4R	4H	1W	
133.20	136.25	3.05	2.16	71	0.10	3	3R	4H	1W	
136.25	139.29	3.04	1.88	62	0.00	0	3R	4H	1W	
139.29	142.34	3.05	1.21	40	0.31	10	1R	3H	1W	
142.34	145.39	3.05	1.85	61	1.07	35	0R	2H	2W	
145.39	148.44	3.05	3.05	100	2.26	74	0R	2H	1W	
148.44	151.49	3.05	2.99	98	1.83	60	4R	3H	1W	
151.49	154.53	3.04	3	99	1.29	42	0R	3H	1W	
154.53	157.58	3.05	2.88	94	2.07	68	0R	3H	1W	
157.58	160.63	3.05	3.05	100	1.53	50	0R	2H	2W	
160.63	163.68	3.05	2.95	97	1.00	33	0R	2H	1W	
163.68	166.73	3.05	2.83	93	2.30	75	0R	2H	1W	
166.73	169.77	3.04	2.75	90	0.89	29	0R	2H	1W	
169.77	172.82	3.05	3.05	100	3.01	99	0R	3H	1W	
172.82	175.87	3.05	3.05	100	2.89	95	0R	2H	1W	
175.87	178.92	3.05	2.6	85	1.07	35	0R	2H	1W	
178.92	181.97	3.05	2.45	80	2.30	75	0R	3H	1W	
181.97	185.01	3.04	2.88	95	0.39	13	0R	2H	1W	
185.01	188.06	3.05	2.98	98	1.26	41	0R	3H	1W	
188.06	191.11	3.05	2.96	97	0.35	11	0R	2H	1W	
191.11	194.16	3.05	2.8	92	0.00	0	0R	2H	1W	
194.16	197.21	3.05	2.89	95	0.00	0	0R	2H	1W	
197.21	200.25	3.04	2.88	95	0.00	0	0R	2H	1W	
200.25	203.30	3.05	1.52	50	0.00	0	0R	1H	1W	
203.30	206.35	3.05	2.41	79	0.67	22	0R	2H	1W	
206.35	209.40	3.05	2.84	93	1.55	51	0R	2H	1W	
209.40	212.45	3.05	2.87	94	1.19	39	0R	2H	1W	
212.45	215.49	3.04	2.73	90	1.54	51	0R	2H	1W	
215.49	218.54	3.05	2.76	90	1.92	63	0R	2H	1W	
218.54	221.59	3.05	2.78	91	0.82	27	0R	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
221.59	224.64	3.05	2.49	82	1.21	40	OR	2H	1W	
224.64	227.69	3.05	2.73	90	1.52	50	OR	2H	1W	
227.69	230.73	3.04	2.42	80	0.71	23	OR	2H	1W	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	M398607	12-333	b		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K309637	12-325	A		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398430	12-312	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398436	12-312	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398444	12-330	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398448	12-330	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398563	12-330	B		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398568	12-330	B	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398579	12-333	b		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398584	12-333	b	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	M398602	12-333	b	P3C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0.00	0.00	0.00	-QC-	0.00	0	K309635	12-325	A	4C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.81	6.71	2.90	OVB, OVB	2.28	79	M398424	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.81	6.71	2.90	OVB, OVB	2.28	79	M398425	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.71	9.75	3.04	SHL, OVB	2.62	86	M398426	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.75	11.28	1.53	SHL	1.49	97	M398427	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.28	14.33	3.05	SHL	2.73	90	M398428	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.33	17.37	3.04	SHL	2.27	75	M398429	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.37	20.42	3.05	SHL	2.69	88	M398431	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.42	23.47	3.05	SHL	2.41	79	M398432	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.47	26.52	3.05	SHL	2.38	78	M398433	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.52	29.57	3.05	SHL	2.85	93	M398434	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.57	32.61	3.04	SHL	2.88	95	M398435	12-312	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.61	35.66	3.05	SHL	2.18	71	M398437	12-330	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.66	38.71	3.05	SHL	2.02	66	M398438	12-330	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.71	40.23	1.52	SHL	0.99	65	M398439	12-330	B		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.23	43.28	3.05	SHL	1.49	49	M398442	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43.28	46.33	3.05	SHL	2.33	76	M398443	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46.33	49.38	3.05	SHL	2.15	70	M398445	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49.38	52.43	3.05	SHL	2.38	78	M398446	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52.43	55.47	3.04	SHL	2.87	94	M398447	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55.47	58.52	3.05	SHL	2.89	95	M398449	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.52	60.05	1.53	SHL	1.53	100	M398450	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58.52	60.05	1.53	SHL	1.53	100	M398551	12-330	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
60.05	63.09	3.04	SHL	2.13	70	M398552	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63.09	66.14	3.05	SHL	2.56	84	M398553	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66.14	69.19	3.05	SHL	2.03	67	M398554	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69.19	72.24	3.05	SHL	2.53	83	M398555	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
72.24	75.29	3.05	SHL	1.43	47	M398556	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75.29	78.33	3.04	SHL	2.83	93	M398557	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	79.61	1.28	SHL	1.08	84	M398558	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78.33	79.61	1.28	SHL	1.08	84	M398559	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
79.61	81.38	1.77	SHL	1.70	96	M398560	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81.38	84.43	3.05	SHL	3.01	99	M398561	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84.43	87.48	3.05	SHL	3.03	99	M398562	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87.48	90.53	3.05	SHL	2.91	95	M398564	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90.53	93.57	3.04	SHL	3.00	99	M398565	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93.57	96.62	3.05	SHL	2.86	94	M398566	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96.62	99.67	3.05	SHL	2.13	70	M398567	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
99.67	102.72	3.05	SHL	3.02	99	M398569	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102.72	105.77	3.05	SHL	2.97	97	M398570	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105.77	108.81	3.04	SHL	2.58	85	M398571	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108.81	111.86	3.05	SHL	2.34	77	M398572	12-330	B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
111.86	114.91	3.05	SHL	2.29	75	M398573	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
114.91	117.96	3.05	SHL	1.71	56	M398574	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
117.96	121.01	3.05	SHL	2.22	73	M398575	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
121.01	124.05	3.04	SHL	2.58	85	K309632	12-325	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
124.05	126.28	2.23	SHL	2.18	98	K309633	12-325	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
126.28	127.72	1.44	SHL, LST	1.32	92	K309639	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
127.72	130.15	2.43	LST	2.43	100	K309634	12-325	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
130.15	133.20	3.05	LST	2.53	83	K309640	12-337	a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133.20	136.25	3.05	LST	2.16	71	K309636	12-325	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
136.25	139.29	3.04	LST	1.88	62	M398576	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
139.29	140.35	1.06	LST	1.05	99	M398577	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
140.35	142.34	1.99	SHL, LST	0.69	35	M398578	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142.34	145.39	3.05	SHL	1.85	61	M398580	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142.34	145.39	3.05	SHL	1.85	61	M398581	12-333	b	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
145.39	148.44	3.05	SHL	3.05	100	M398582	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
148.44	150.14	1.70	SHL, LST	1.70	100	M398583	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
150.14	151.49	1.35	SHL, LST	1.32	98	M398585	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
151.49	154.53	3.04	SHL	3.00	99	M398586	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
154.53	157.58	3.05	SHL	2.88	94	M398587	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
157.58	160.63	3.05	SHL	3.05	100	M398588	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
160.63	163.68	3.05	SHL	2.95	97	M398589	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
163.68	166.73	3.05	SHL	2.83	93	M398590	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
166.73	169.77	3.04	SHL	2.75	90	M398591	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
169.77	172.82	3.05	SHL	3.05	100	M398592	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
172.82	175.87	3.05	SHL	3.05	100	M398593	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
172.82	175.87	3.05	SHL	3.05	100	M398594	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
175.87	178.92	3.05	SHL	2.60	85	M398595	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
178.92	181.97	3.05	SHL	2.45	80	M398596	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
181.97	185.01	3.04	SHL	2.88	95	M398597	12-333	b	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
185.01	188.06	3.05	SHL	2.97	97	M398598	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
188.06	191.11	3.05	SHL	2.96	97	M398599	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.11	194.16	3.05	SHL	2.80	92	M398600	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
194.16	197.21	3.05	SHL	2.89	95	M398601	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
197.21	200.25	3.04	SHL	2.88	95	M398603	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200.25	203.30	3.05	SHL	1.52	50	M398604	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
203.30	206.35	3.05	SHL	2.41	79	M398605	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
206.35	209.40	3.05	SHL	2.84	93	M398606	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
209.40	212.45	3.05	SHL	2.87	94	M398608	12-333	b		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
212.45	215.49	3.04	SHL	2.73	90	M398609	12-347	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
215.49	218.54	3.05	SHL	2.76	90	M398610	12-347	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
218.54	221.59	3.05	SHL	2.78	91	M398611	12-347	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
221.59	224.64	3.05	SHL	2.58	85	M398612	12-347	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
224.64	227.69	3.05	SHL	2.79	91	M398613	12-347	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
227.69	230.73	3.04	SHL	2.45	81	M398614	12-347	A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**APPENDIX IX**  
**SAMPLING AND ANALYTICAL PROCEDURES – DRILL CORE**

## **2012 Core Geochemical Samples**

Core was transported by helicopter from the drill sites to a logging area on the property where recovery was measured and geological and geotechnical logging was performed. Geologically and mineralogically favorable intervals from each hole were split in half using a diamond bladed core saw with one half sent for analysis and the other returned to the core box. All core is stored on the property.

Core samples were double bagged in plastic sample bags, grouped into batches of 36 and placed into rice bags for transport. Batches were flown out by helicopter to the Stewart airstrip then flown by fixed wing aircraft to Mayo. From Mayo the samples were transported by truck to Whitehorse escorted by a representative from Archer Cathro. The samples were submitted to ALS in Whitehorse or occasionally flown to the Vancouver lab for preparation.

Core samples were dried and crushed to 70% minus 2 mm before a 250 g split was taken and pulverized to better than 85% minus 75 microns. To reduce contamination, equipment was twice washed with silica sand between samples. Splits of the pulverized fractions were routinely dissolved in four-acid “near-total” digestion and analyzed for 49 elements using the ME-MS61m method which includes combined inductively coupled plasma (ICP) with mass spectroscopy (MS) and atomic adsorption spectroscopy (AAS). Mercury was analyzed for using HG-CV41 methods by aqua regia digestion and atomic adsorption spectroscopy. Samples were analyzed for gold by fire assay finished with AAS (Au-AA26). Certificates of Analysis are found in Appendix X.

**APPENDIX X**  
**QA/QC RESULTS**

## **2012 QA/QC Results**

During the field season, core samples were divided into batches, each containing 31 core samples, two blanks, two standards, one quarter core field duplicate and one coarse reject lab duplicate. A total of 769 blanks, 769 standards, 397 field duplicates and 378 lab duplicates were inserted into the sample sequences. Blank samples each comprise 5 kg (NQ samples) and 7 kg (HQ samples) of landscaping marble obtained from a garden centre in Whitehorse. Samples of this material were randomly selected and analyzed prior to the field season to define the baseline geochemical signature.

Six standards were chosen from CDN Resource Laboratories Ltd. prepared from matrix compatible material. Certificates for each of the standard samples occur in the following pages, while Table X summarizes the consensus and two standard deviation values for each of the standard samples used during the program.

**Table X: Standard Sample Parameters**

Standard Name	Standard Gold Grade	2Sigma
CDN-GS-P3A	0.338	0.022
CDN-GS-P3B	0.409	0.042
CDN-GS-P3C	0.263	0.02
CDN-GS-3G	2.59	0.18
CDN-GS-4C	4.26	0.22
CDN-GS-15B	15.98	0.71

Gold values from all blank samples were within acceptable range. Of the 389 batches analyzed in 2012, 19 returned results where the standards were out of acceptable range. All of these batches were reanalyzed by the laboratory to ensure results were accurate. Results from the reanalyses gave acceptable values for the standards and typically showed little variation in results for the non-standard samples. One batch required a third analysis to give acceptable results for the standard.

For the duplicate samples, both field quarter cores and lab coarse rejects, in general there was little variation between the initial samples and the field and lab duplicate samples.

# CDN Resource Laboratories Ltd.

#2, 20148 – 102<sup>nd</sup> Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-15B

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration: 15.98 ± 0.71 g/t (30g Fire Assay / Gravimetric finish)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** May 1, 2010

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-15B was prepared using ore supplied by Barrick Gold Inc. from their Goldstrike Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Northern Carlin Trend in Northern Nevada, USA. The source material is from Devonian carbonates of the Popovich Formation. Gold is strongly associated with pyrite and other sulfides including the arsenic minerals orpiment and realgar. 800kg of the -270 Barrick ore was blended with 46 kg of a high grade gold ore (also screened to -270).

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-15B-1	16.17	15.95	16.60	16.4	15.95	15.7	15.5	15.6	15.77	16.3	16.07	16.4	15.49	16.09	16.29
GS-15B-2	16.40	16.25	15.90	15.7	16.18	15.5	15.5	15.6	16.10	16.2	15.70	15.8	15.55	15.63	16.59
GS-15B-3	16.46	15.70	16.30	16.5	16.11	15.6	15.6	16.0	16.12	15.9	15.67	16.4	15.11	16.10	16.79
GS-15B-4	16.49	16.00	16.30	15.8	15.75	15.4	15.9	15.8	15.35	16.0	15.67	16.5	14.96	16.23	15.12
GS-15B-5	16.61	16.25	15.83	16.4	16.03	15.3	16.0	15.0	15.64	16.1	15.70	16.1	14.93	16.00	15.79
GS-15B-6	16.62	15.90	16.20	16.6	15.89	15.6	16.0	14.7	15.35	16.3	16.13	16.4	15.83	16.13	15.80
GS-15B-7	16.38	15.85	15.77	16.4	16.25	15.9	16.0	15.2	15.98	15.9	15.93	16.3	15.43	15.93	16.09
GS-15B-8	16.41	16.00	16.23	16.6	16.01	15.5	16.1		15.36	16.5	16.03	16.2	15.23	16.40	15.79
GS-15B-9	16.24	15.80	15.80	16.6	16.04	15.4	15.9	15.4	16.13	16.6	16.03	16.4	15.57	16.19	15.63
GS-15B-10	16.47	15.90	16.47	15.9	16.23	15.7	15.7	15.4	15.43	16.3	15.70	16.3	15.97	15.52	16.49
Mean	16.43	15.96	16.14	16.29	16.04	15.56	15.82	15.41	15.72	16.21	15.86	16.28	15.41	16.02	16.04
Std. Dev'n	0.1421	0.1776	0.2962	0.3510	0.1566	0.1776	0.2251	0.4014	0.3393	0.2151	0.1911	0.2044	0.3492	0.2690	0.5083
%RSD	0.87	1.11	1.84	2.15	0.98	1.14	1.42	2.60	2.16	1.33	1.20	1.26	2.27	1.68	3.17

### APPROXIMATE CHEMICAL COMPOSITION:

	Percent		Percent		ppm
SiO <sub>2</sub>	50.0	Na <sub>2</sub> O	0.1	As	1300
Al <sub>2</sub> O <sub>3</sub>	3.5	MgO	1.3	Sb	110
Fe <sub>2</sub> O <sub>3</sub>	5.0	K <sub>2</sub> O	0.5		
CaO	20.0	TiO <sub>2</sub>	0.2		
MnO	0.1	LOI	17.4		
Total S	2.0	Total C	5.3		
Sulphide S	1.4	Inorganic C	4.7		



**REFERENCE MATERIAL: CDN-GS-15B**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

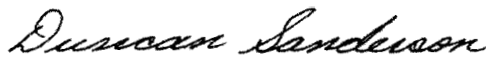
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
Alaska Assay Lab, Anchorage, Alaska, USA  
AGAT Laboratories, Mississauga, Ontario, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
American Assay Laboratory, Nevada, USA  
Assayers Canada Ltd., Vancouver, B.C., Canada  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
International Plasma Laboratories, Richmond, B.C., Canada  
Labtium Inc., Finland  
SGS, Toronto, Canada  
SGS, Lima, Peru  
Skyline Assayers & Laboratories, Arizona, USA  
TSL Laboratories Ltd., Saskatoon, SK, Canada

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by



\_\_\_\_\_  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist



\_\_\_\_\_  
Dr. Barry Smee, Ph.D., P. Geo.

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## REFERENCE MATERIAL: CDN-GS-3G

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $2.59 \pm 0.18$  g/t (30g Fire Assay / ICP)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** March 10, 2010

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-3G was prepared using ore supplied by Barrick Gold Inc. from their Goldstrike Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Northern Carlin Trend in Northern Nevada, USA. The source material is from Devonian carbonates of the Popovich Formation. Gold is strongly associated with pyrite and other sulfides including the arsenic minerals orpiment and realgar.

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CDN-GS-3G-1	2.58	2.68	2.49	2.43	2.46	2.55	2.47	2.61	2.32	2.55	2.74	2.74	2.59	2.59	2.73
CDN-GS-3G-2	2.54	2.66	2.59	2.28	2.58	2.59	2.54	2.61	2.37	2.54	2.40	2.69	2.55	2.62	2.54
CDN-GS-3G-3	2.51	2.69	2.61	2.39	2.51	2.60	2.59	2.53	2.33	2.48	2.54	2.77	2.57	2.72	2.60
CDN-GS-3G-4	2.57	2.67	2.61	2.37	2.54	2.62	2.54	2.77	2.40	2.46	2.54	2.73	2.61	2.61	2.65
CDN-GS-3G-5	2.67	2.70	2.49	2.35	2.51	2.61	2.52	2.82	2.46	2.21	2.47	2.72	2.58	2.62	2.62
CDN-GS-3G-6	2.63	2.68	2.52	2.27	2.49	2.65	2.48	2.76	2.56	2.43	2.50	2.73	2.55	2.61	2.56
CDN-GS-3G-7	2.62	2.69	2.71	2.41	2.48	2.55	2.35	2.55	2.62	2.40	2.61	2.69	2.56	2.58	2.64
CDN-GS-3G-8	2.65	2.63	2.55	2.56	2.64	2.65	2.50	2.79	2.42	2.18	2.67	2.74	2.54	2.59	2.72
CDN-GS-3G-9	2.60	2.70	2.50	2.44	2.48	2.62	2.57	2.62	2.55	2.28	2.43	2.67	2.60	2.62	2.77
CDN-GS-3G-10	2.59	2.65	2.60	2.38	2.47	2.63	2.46	2.65	2.31	2.42	2.50	2.60	2.57	2.59	2.61
Mean	2.60	2.68	2.57	2.39	2.52	2.61	2.50	2.67	2.43	2.40	2.54	2.71	2.57	2.62	2.64
Std. Dev'n	0.0490	0.0227	0.0704	0.0830	0.0564	0.0371	0.0683	0.1049	0.1102	0.1300	0.1062	0.0480	0.0230	0.0406	0.0750
%RSD	1.89	0.85	2.74	3.47	2.24	1.42	2.73	3.93	4.53	5.43	4.18	1.77	0.89	1.55	2.84

*Note: Data from Lab 4 was excluded for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION:

	Percent		Percent		ppm
SiO <sub>2</sub>	45.1	Na <sub>2</sub> O	0.1	As	500
Al <sub>2</sub> O <sub>3</sub>	5.2	MgO	8.9	Sb	60
Fe <sub>2</sub> O <sub>3</sub>	2.7	K <sub>2</sub> O	1.1		
CaO	14.3	TiO <sub>2</sub>	0.2		
MnO	0.1	LOI	20.8		
Total S	1.4	Total C	5.9		
Sulphide S	0.9	Inorganic C	3.0		

**REFERENCE MATERIAL: CDN-GS-3G**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

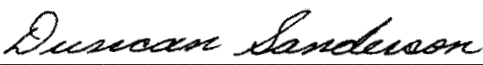
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Acme Analytical Laboratories Ltd., Santiago, Chile  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
Alaska Assay Lab, Anchorage, Alaska, USA  
ASA Argentina  
ALS Chemex, North Vancouver, B.C., Canada  
ALS Chemex, Nevada, USA  
Assayers Canada Ltd., Vancouver, B.C., Canada  
Bourlamaque Assay Laboratories, Quebec, Canada  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Labtium Inc., Finland  
SGS, Toronto, Canada  
SGS, Lima, Peru  
TSL Laboratories Ltd., Saskatoon, SK, Canada


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
Dr. Barry Smee, Ph.D., P. Geo.

# CDN Resource Laboratories Ltd.

#2, 20148 – 102<sup>nd</sup> Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-4C

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $4.26 \pm 0.22$  g/t (30g Fire Assay / ICP)**

**Gold concentration:  $4.25 \pm 0.20$  g/t (30g Fire Assay / Grav.)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** March 10, 2010

### ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-4C was prepared using ore supplied by Barrick Gold Inc. from their Goldstrike Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Northern Carlin Trend in Northern Nevada, USA. The source material is from Devonian carbonates of the Popovich Formation. Gold is strongly associated with pyrite and other sulfides including the arsenic minerals orpiment and realgar.

### METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

ICP	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CDN-GS-4C-1	4.23	4.18	4.52	4.16	4.11	4.01	4.46	4.20	4.34	4.41	4.34	4.10	4.26	4.23	4.21
CDN-GS-4C-2	4.48	4.20	4.44	4.13	4.13	4.08	4.56	4.30	4.29	4.40	4.21	4.19	4.22	4.47	4.15
CDN-GS-4C-3	4.23	4.16	4.37	4.20	4.21	4.05	4.47	4.27	4.32	4.39	4.30	4.18	4.29	4.43	4.09
CDN-GS-4C-4	4.24	4.20	4.27	4.25	4.22	4.13	4.58	4.20	4.38	4.44	4.30	4.16	4.24	4.41	4.15
CDN-GS-4C-5	4.46	4.27	4.59	4.14	4.21	4.09	4.47	4.29	4.28	4.38	4.25	4.11	4.27	4.39	4.17
CDN-GS-4C-6	4.18	4.34	4.60	4.26	4.27	4.07	4.35	4.36	4.26	4.33	4.32	4.13	4.22	4.39	4.11
CDN-GS-4C-7	4.27	4.26	4.46	4.30	4.24	4.06	4.40	4.28	4.29	4.34	4.27	4.19	4.30	4.25	4.20
CDN-GS-4C-8	4.15	4.41	4.38	4.16	4.24	4.02	4.27	4.22	4.31	4.34	4.25	4.14	4.26	4.43	4.16
CDN-GS-4C-9	4.29	4.29	4.59	4.27	4.20	4.06	4.28	4.13	4.28	4.39	4.37	4.00	4.32	4.35	4.12
CDN-GS-4C-10	4.21	4.33	4.46	4.15	4.27	4.13	4.28	4.18	4.22	4.41	4.27	3.95	4.31	4.43	4.13
Mean	4.27	4.26	4.47	4.20	4.21	4.07	4.41	4.24	4.30	4.38	4.29	4.12	4.27	4.38	4.15
Std. Dev'n	0.1109	0.0804	0.1092	0.0625	0.0533	0.0420	0.1146	0.0685	0.0440	0.0359	0.0476	0.0810	0.0349	0.0796	0.0381
%RSD	2.59	1.89	2.44	1.49	1.27	1.03	2.60	1.61	1.02	0.82	1.11	1.97	0.82	1.82	0.92
Gravimetric	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
CDN-GS-4C-1	4.32	4.16	4.80	4.23	4.33	4.146	4.26	4.31	4.42		4.3		4.19	4.120	4.30
CDN-GS-4C-2	4.32	4.23	4.53	4.26	4.33	4.065	4.23	4.24	4.39		4.2		4.23	4.310	4.33
CDN-GS-4C-3	4.35	4.15	4.33	4.30	4.36	4.058	4.20	4.25	4.51		4.1		4.23	4.467	4.27
CDN-GS-4C-4	4.28	4.26	4.57	4.33	4.34	4.121	4.13	4.22	4.56		4.2		4.22	4.067	4.30
CDN-GS-4C-5	4.26	4.25	4.77	4.26	4.30	4.012	4.24	4.30	4.22		4.1		4.24	4.061	4.33
CDN-GS-4C-6	4.24	4.11	4.33	4.20	4.32	4.091	4.26	4.33	4.37		4.4		4.24	4.223	4.20
CDN-GS-4C-7	4.23	4.19	4.50	4.33	4.26	4.097	4.15	4.23	4.58		4.2		4.19	4.061	4.30
CDN-GS-4C-8	4.27	4.26	4.67	4.31	4.31	4.146	4.28	4.24	4.38		4.3		4.20	4.122	4.27
CDN-GS-4C-9	4.08	4.18	4.30	4.23	4.26	4.103	4.28	4.23	4.43		4.5		4.22	4.238	4.23
CDN-GS-4C-10	4.25	4.26	4.67	4.19	4.33	4.198	4.26	4.17	4.42		4.4		4.20	4.000	4.23
Mean	4.26	4.21	4.55	4.26	4.31	4.10	4.23	4.25	4.43		4.27		4.22	4.17	4.28
Std. Dev'n	0.0742	0.0544	0.1832	0.0517	0.0327	0.0527	0.0528	0.0480	0.1042		0.1337		0.0196	0.1426	0.0443
%RSD	1.74	1.29	4.03	1.21	0.76	1.28	1.25	1.13	2.35		3.13		0.46	3.42	1.04

**Note:** Labs 10 and 12 did not report gravimetric results.  
 Gravimetric data from Lab 3 was excluded for failing the "t" test.

**REFERENCE MATERIAL: CDN-GS-4C**

**APPROXIMATE CHEMICAL COMPOSITION:**

	Percent			Percent			ppm
SiO <sub>2</sub>	45.1		Na <sub>2</sub> O	0.1		As	500
Al <sub>2</sub> O <sub>3</sub>	5.2		MgO	8.9		Sb	60
Fe <sub>2</sub> O <sub>3</sub>	2.7		K <sub>2</sub> O	1.1			
CaO	14.3		TiO <sub>2</sub>	0.2			
MnO	0.1		LOI	20.8			
Total S	1.4		Total C	5.9			
Sulphide S	1.2		Inorganic C	5.3			

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

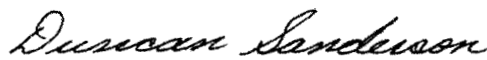
**Participating Laboratories:** (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Acme Analytical Laboratories Ltd., Santiago, Chile  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
Alaska Assay Lab, Anchorage, Alaska, USA  
Alex Stewart Argentina SA  
ALS Chemex, North Vancouver, B.C., Canada  
ALS Chemex, Nevada, USA  
Assayers Canada Ltd., Vancouver, B.C., Canada  
Bourlamaque Assay Laboratories, Quebec, Canada  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Labtium Inc., Finland  
SGS, Toronto, Canada  
SGS, Lima, Peru  
TSL Laboratories Ltd., Saskatoon, SK, Canada

**Legal Notice:**

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



Dr. Barry Smee, Ph.D., P. Geo.

# CDN Resource Laboratories Ltd.

#2, 20148 – 102<sup>nd</sup> Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-P3A

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $0.338 \pm 0.022$  g/t (30g Fire Assay / ICP)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** July 16, 2010

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P3A was prepared using ore supplied by Barrick Gold Inc. from their Bald Mountain Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Battle Mountain-Eureka Trend in Northern Nevada, USA. The material is from breccias near the contact between the Mississippian Pilot Shale and the underlying Devonian Guilmette formation. Near the center of the system, micron-sized native Au occurs with base metal sulfides and sulfosalts. In peripheral deposits and in later stages of mineralization, Au is typically submicron in size and resides in pyrite or arsenopyrite.

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 14 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14
Sample	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-P3A-1	0.349	0.354	0.330	0.32	0.348	0.335	0.340	0.276	0.291	0.36	0.36	0.334	0.37	0.335
GS-P3A-2	0.317	0.346	0.320	0.32	0.338	0.349	0.340	0.280	0.284	0.34	0.34	0.333	0.35	0.325
GS-P3A-3	0.326	0.345	0.351	0.32	0.340	0.338	0.350	0.295	0.272	0.34	0.34	0.331	0.34	0.327
GS-P3A-4	0.332	0.336	0.354	0.31	0.342	0.340	0.340	0.273	0.289	0.35	0.34	0.335	0.35	0.326
GS-P3A-5	0.336	0.332	0.333	0.31	0.340	0.347	0.330	0.289	0.274	0.35	0.32	0.340	0.33	0.343
GS-P3A-6	0.338	0.330	0.335	0.34	0.337	0.341	0.340	0.275	0.291	0.36	0.36	0.326	0.37	0.294
GS-P3A-7	0.332	0.339	0.329	0.32	0.335	0.345	0.340	0.289	0.268	0.37	0.33	0.341	0.33	0.292
GS-P3A-8	0.350	0.349	0.328	0.30	0.341	0.354	0.350	0.294	0.285	0.35	0.34	0.340	0.35	0.338
GS-P3A-9	0.330	0.342	0.330	0.30	0.333	0.350	0.350	0.286	0.321	0.35	0.33	0.333	0.35	0.295
GS-P3A-10	0.346	0.328	0.341	0.31	0.328	0.349	0.340	0.286	0.311	0.35	0.34	0.337	0.36	0.315
Mean	0.336	0.340	0.335	0.314	0.338	0.345	0.342	0.284	0.289	0.352	0.341	0.335	0.350	0.319
Std. Dev'n	0.0105	0.0086	0.0106	0.0108	0.0055	0.0061	0.0063	0.0079	0.0167	0.0092	0.0117	0.0047	0.0141	0.0191
%RSD	3.14	2.53	3.17	3.45	1.61	1.76	1.85	2.77	5.79	2.61	3.44	1.39	4.04	5.99

*Note: Data from both Labs 8 and 9 was removed for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION:

	Percent		Percent		ppm
SiO <sub>2</sub>	60.9	Na <sub>2</sub> O	0.5	As	560
Al <sub>2</sub> O <sub>3</sub>	11.2	MgO	0.2	Sb	50
Fe <sub>2</sub> O <sub>3</sub>	9.1	K <sub>2</sub> O	1.7		
CaO	0.6	TiO <sub>2</sub>	0.9		
MnO	< 0.1	LOI	13.6		
Total S	3.2	Total C	0.1		
Sulphide S	2.8	Inorganic C	0.1		

**REFERENCE MATERIAL: CDN-GS-P3A**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

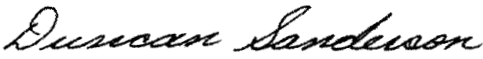
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
AGAT Laboratories Ltd., Mississauga, Ontario, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
ALS Chemex, Nevada, USA  
American Assay Laboratories, Nevada, USA  
Assayers Canada Ltd., Vancouver, B.C., Canada  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Genalysis Lab Services, Australia  
Labtium Inc., Finland  
OMAC Laboratories Ltd., Ireland  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace Laboratories Ltd., Australia


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
\_\_\_\_\_  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
\_\_\_\_\_  
Dr. Barry Smee, Ph.D., P. Geo.

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-GS-P3B

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration: 0.409 ± 0.042 g/t (30g Fire Assay / ICP)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** September 22, 2011

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P3B was prepared using ore supplied by Barrick Gold Inc. from their Bald Mountain Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Battle Mountain-Eureka Trend in Northern Nevada, USA. The material is from breccias near the contact between the Mississippian Pilot Shale and the underlying Devonian Guilmette formation. Near the center of the system, micron-sized native Au occurs with base metal sulfides and sulfosalts. In peripheral deposits and in later stages of mineralization, Au is typically submicron in size and resides in pyrite or arsenopyrite.

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-P3B-1	0.428	0.414	0.383	0.440	0.419	0.398	0.389	0.391	0.418	0.384	0.408	0.418	0.424	0.390	0.368
GS-P3B-2	0.417	0.415	0.391	0.470	0.404	0.401	0.375	0.365	0.433	0.394	0.410	0.415	0.413	0.397	0.365
GS-P3B-3	0.429	0.422	0.400	0.430	0.423	0.395	0.370	0.372	0.404	0.429	0.414	0.415	0.422	0.407	0.368
GS-P3B-4	0.410	0.419	0.402	0.420	0.439	0.405	0.356	0.388	0.438	0.410	0.416	0.425	0.422	0.416	0.362
GS-P3B-5	0.416	0.407	0.391	0.440	0.426	0.408	0.384	0.360	0.434	0.423	0.420	0.432	0.406	0.408	0.355
GS-P3B-6	0.416	0.417	0.385	0.420	0.432	0.410	0.377	0.359	0.454	0.409	0.418	0.438	0.418	0.400	0.372
GS-P3B-7	0.413	0.389	0.407	0.440	0.417	0.406	0.371	0.356	0.437	0.414	0.416	0.431	0.430	0.415	0.362
GS-P3B-8	0.437	0.407	0.386	0.430	0.428	0.403	0.378	0.393	0.433	0.416	0.422	0.417	0.406	0.409	0.359
GS-P3B-9	0.424	0.405	0.392	0.460	0.443	0.404	0.385	0.370	0.414	0.416	0.417	0.418	0.423	0.409	0.371
GS-P3B-10	0.440	0.414	0.393	0.470	0.430	0.395	0.389	0.376	0.438	0.424	0.416	0.428	0.404	0.440	0.369
Mean	0.423	0.411	0.393	0.442	0.426	0.403	0.377	0.373	0.430	0.412	0.416	0.424	0.417	0.409	0.365
Std. Dev'n	0.0103	0.0095	0.0077	0.0187	0.0112	0.0052	0.0102	0.0137	0.0144	0.0138	0.0042	0.0082	0.0090	0.0135	0.0055
%RSD	2.43	2.30	1.95	4.24	2.64	1.29	2.69	3.67	3.34	3.35	1.01	1.94	2.16	3.30	1.51

### APPROXIMATE CHEMICAL COMPOSITION:

	Percent		Percent		ppm
SiO <sub>2</sub>	56.7	Na <sub>2</sub> O	0.6	As	610
Al <sub>2</sub> O <sub>3</sub>	13.2	MgO	0.2	Sb	90
Fe <sub>2</sub> O <sub>3</sub>	9.5	K <sub>2</sub> O	1.9		
CaO	0.9	TiO <sub>2</sub>	1.0		
MnO	< 0.1	LOI	14.4		
Total S	3.1	Total C	0.1		
Sulphide S	2.3	Inorganic C	0.1		



**REFERENCE MATERIAL: CDN-GS-P3B**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

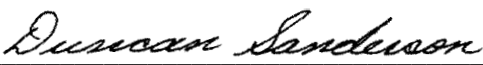
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Stewart, B.C., Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
AGAT Laboratories Ltd., Mississauga, Ontario, Canada  
AHK, Alaska, USA  
ALS Chemex, North Vancouver, B.C., Canada  
Alex Stewart Argentina SA  
Alex Stewart, Kamloops, B.C., Canada  
CIMM, Lima, Peru  
Inspectorate, Richmond, B.C., Canada  
OMAC Laboratories Ltd., Ireland  
Skyline, Arizona, USA  
SGS, Lima, Peru  
TSL Laboratories Ltd., Saskatoon, SK, Canada


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
Dr. Barry Smee, Ph.D., P. Geo.

# CDN Resource Laboratories Ltd.

#2, 20148 – 102<sup>nd</sup> Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-P3C

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $0.263 \pm 0.020$  g/t (30g Fire Assay / ICP or AA)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** May 22, 2012

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P3C was prepared using ore supplied by Barrick Gold Inc. from their Bald Mountain Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Battle Mountain-Eureka Trend in Northern Nevada, USA. The material is from breccias near the contact between the Mississippian Pilot Shale and the underlying Devonian Guilmette formation. Near the center of the system, micron-sized native Au occurs with base metal sulfides and sulfosalts. In peripheral deposits and in later stages of mineralization, Au is typically submicron in size and resides in pyrite or arsenopyrite.

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
SAMPLE	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-P3C-1	0.267	0.255	0.26	0.266	0.270	0.257	0.214	0.264	0.240	0.267	0.267	0.255	0.26	0.269	0.24
GS-P3C-2	0.273	0.259	0.27	0.269	0.275	0.253	0.230	0.265	0.245	0.254	0.296	0.241	0.25	0.269	0.25
GS-P3C-3	0.265	0.272	0.25	0.265	0.271	0.258	0.231	0.276	0.241	0.276	0.280	0.238	0.26	0.265	0.26
GS-P3C-4	0.277	0.265	0.25	0.256	0.274	0.268	0.236	0.262	0.238	0.283	0.271	0.238	0.26	0.265	0.26
GS-P3C-5	0.280	0.269	0.26	0.270	0.260	0.264	0.240	0.272	0.250	0.279	0.297	0.261	0.26	0.266	0.27
GS-P3C-6	0.258	0.269	0.26	0.258	0.276	0.257	0.241	0.267	0.256	0.273	0.263	0.248	0.26	0.253	0.23
GS-P3C-7	0.261	0.268	0.25	0.263	0.270	0.265	0.230	0.262	0.246	0.274	0.274	0.239	0.25	0.265	0.26
GS-P3C-8	0.274	0.267	0.27	0.258	0.270	0.254	0.217	0.270	0.254	0.259	0.284	0.265	0.25	0.262	0.25
GS-P3C-9	0.275	0.270	0.28	0.263	0.268	0.253	0.238	0.271	0.257	0.268	0.274	0.260	0.26	0.278	0.28
GS-P3C-10	0.257	0.267	0.25	0.262	0.274	0.251	0.232	0.256	0.251	0.268	0.283	0.250	0.27	0.276	0.25
Mean	0.269	0.266	0.260	0.263	0.271	0.258	0.231	0.267	0.248	0.270	0.279	0.250	0.258	0.267	0.255
Std. Dev'n	0.0082	0.0052	0.0105	0.0047	0.0046	0.0058	0.0091	0.0059	0.0068	0.0088	0.0114	0.0103	0.0063	0.0070	0.0143
%RSD	3.06	1.97	4.05	1.78	1.70	2.25	3.93	2.21	2.76	3.28	4.09	4.14	2.45	2.63	5.62

### APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent		ppm
SiO <sub>2</sub>	80.6	Na <sub>2</sub> O	0.1	As	490
Al <sub>2</sub> O <sub>3</sub>	3.7	MgO	0.1	Sb	30
Fe <sub>2</sub> O <sub>3</sub>	5.9	K <sub>2</sub> O	0.5		
CaO	1.5	TiO <sub>2</sub>	0.6		
MnO	< 0.1	LOI	4.6		
Total S	1.2	Total C	0.3		

**REFERENCE MATERIAL: CDN-GS-P3C**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

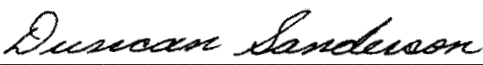
Participating Laboratories: (not in same order as table of assays)

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Acme Analytical Laboratories Ltd., Santiago, Chile  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Stewart, B.C., Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
AGAT Laboratories Ltd., Mississauga, Ontario, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
Alex Stewart Argentina SA  
CIMM, Lima, Peru  
Intertek – Genalysis, Perth, Australia  
SGS, Lima, Peru  
SGS, Toronto, Ontario, Canada  
SGS, Vancouver, B.C., Canada  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace, Perth, Australia


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
Dr. Barry Smee, Ph.D., P. Geo.

**APPENDIX XI**

**DIAMOND DRILLING - CERTIFICATES OF ANALYSIS**



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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To: **ATAC RESOURCES LTD.**  
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**VANCOUVER BC V6B 1L8**

**Page: 1**  
**Finalized Date: 4- JUL- 2012**  
**Account: RCM**

**CERTIFICATE WH12139370**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 017  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

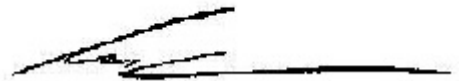
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 4- JUL- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12139370**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666351		4.88	0.08	0.80	1.29	315	130	0.46	0.06	17.85	0.22	23.1	2.9	11	2.50	9.2
M666352		9.79	0.18	0.08	1.22	822	80	0.40	0.05	17.05	0.21	21.1	2.5	10	2.84	5.4
M666353		6.99	<0.01	0.01	0.10	<5	30	0.07	0.02	21.6	0.06	1.39	1.4	2	0.54	2.6
M666354		7.02	0.05	0.09	1.18	657	110	0.50	0.03	19.15	0.50	17.35	2.4	9	3.52	11.2
M666355		10.15	0.05	0.06	0.64	892	50	0.33	0.02	20.1	0.11	9.69	1.9	6	1.54	4.3
M666356		10.63	0.08	0.10	1.00	1020	60	0.54	0.03	20.3	0.10	12.60	2.6	10	3.05	7.1
M666357		8.17	0.06	0.08	0.54	677	60	0.31	0.02	20.9	0.11	8.06	1.9	5	1.00	4.1
M666358		5.60	0.05	0.08	0.55	601	70	0.29	0.02	19.95	0.10	7.27	2.4	5	0.98	4.1
M666359		11.18	0.17	0.08	0.51	479	60	0.25	0.02	20.2	0.17	7.63	2.4	6	1.00	4.0
M666360		9.89	0.15	0.08	0.59	266	70	0.29	0.02	19.25	0.13	7.89	2.2	6	1.20	4.5
M666361		8.65	0.22	0.11	0.75	686	250	0.27	0.02	17.75	0.09	8.41	2.4	9	1.15	6.1
M666362		10.35	0.14	0.06	0.80	577	80	0.33	0.02	19.20	0.04	10.20	2.5	7	2.06	6.2
M666363		7.17	0.34	0.77	0.78	1670	200	0.29	0.03	17.25	0.06	9.54	2.4	8	1.65	5.9
M666364		0.27	0.33	0.33	5.97	605	270	0.66	0.24	0.49	0.20	129.5	2.9	225	3.53	26.1
M666365		9.39	0.16	0.09	1.56	691	100	0.51	0.04	16.95	0.43	17.15	2.8	14	4.58	4.7
M666366		5.91	0.02	0.04	1.84	266	110	0.63	0.05	16.70	0.15	19.55	3.0	17	5.55	3.0
M666367		11.19	<0.01	0.02	3.11	263	1090	1.01	0.08	20.3	0.09	33.2	4.5	30	10.50	16.7
M666368		9.24	<0.01	0.04	2.97	484	350	0.97	0.08	21.9	0.08	32.5	5.3	24	13.70	16.8
M666369		11.27	<0.01	<0.01	4.36	341	160	1.34	0.10	19.05	0.04	44.5	8.8	35	27.7	18.7
M666370		0.27	2.70	1.35	3.18	601	840	0.70	0.30	8.20	2.04	41.7	7.2	53	3.61	43.6
M666371		4.36	<0.01	0.03	2.92	120	110	1.02	0.07	22.6	0.08	29.4	5.8	25	18.30	14.2
M666372		7.11	<0.01	0.02	3.91	130	190	1.32	0.09	10.20	0.09	42.4	7.3	35	22.0	19.1
M666373		11.39	0.05	0.05	1.42	199	90	0.51	0.04	17.90	0.11	18.70	3.8	13	5.59	15.6
M666374		10.25	0.10	0.05	0.88	128	60	0.38	0.02	18.55	0.04	14.50	2.5	11	2.70	6.4
M666375		5.64	<0.01	0.17	3.36	257	210	0.99	0.14	20.0	0.03	51.5	6.8	29	5.53	14.1
M666376		<0.02	<0.01	0.19	3.49	259	210	0.93	0.15	20.3	0.04	52.8	6.9	30	5.69	15.0
M666377		3.17	<0.01	0.12	3.61	884	180	0.99	0.16	22.3	0.02	36.0	6.9	29	8.87	15.1
M666378		10.01	<0.01	0.06	2.64	353	170	0.80	0.12	23.8	0.03	33.5	5.2	22	6.44	11.3
M666379		8.03	<0.01	0.06	5.57	719	300	1.45	0.25	11.05	0.02	76.2	10.9	47	12.65	24.5
M666380		10.40	<0.01	0.04	3.72	379	180	1.01	0.16	19.10	0.03	55.0	7.4	33	8.70	15.1
M666381		7.00	<0.01	0.01	0.10	<5	20	0.08	0.02	22.1	0.06	1.53	1.4	1	0.24	1.9
M666382		10.71	<0.01	0.06	2.56	220	130	0.74	0.11	23.6	0.05	46.1	5.6	24	5.43	11.2
M666383		11.65	<0.01	0.06	5.22	381	230	1.34	0.23	12.70	0.04	67.6	10.3	48	11.50	22.3
M666384		10.54	<0.01	0.05	4.23	244	180	1.09	0.19	16.60	0.04	58.7	8.6	38	8.97	17.0
M666385		9.71	<0.01	0.22	4.04	319	170	1.05	0.18	17.95	0.02	59.6	8.0	37	8.43	16.4
M666386		9.39	<0.01	0.07	5.20	351	220	1.30	0.22	10.70	0.03	74.2	10.0	49	9.35	21.2



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12139370**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M666351		0.86	3.51	0.09	1.1	2.48	0.018	0.61	12.0	7.5	9.12	472	0.29	0.02	2.1	5.8
M666352		0.76	3.20	0.10	1.1	3.39	0.013	0.57	11.8	6.5	10.20	448	0.22	0.01	2.0	4.0
M666353		0.50	0.41	0.08	<0.1	0.01	0.005	0.04	0.7	1.3	13.15	216	0.05	0.01	0.4	2.0
M666354		0.43	3.41	0.11	0.7	2.69	0.014	0.58	9.6	7.3	11.55	281	0.23	0.01	1.9	3.7
M666355		0.57	1.75	0.09	0.4	6.55	0.010	0.29	5.5	4.1	11.20	744	0.20	0.01	1.0	3.3
M666356		0.47	2.53	0.07	0.6	4.73	0.013	0.46	7.1	5.9	11.70	481	0.40	0.01	1.6	4.9
M666357		0.36	1.41	0.06	0.3	3.66	0.009	0.24	4.4	3.6	12.60	376	0.27	0.01	0.9	2.8
M666358		0.32	1.54	0.25	0.3	3.74	0.006	0.23	4.1	3.6	12.05	346	0.33	0.01	1.0	4.9
M666359		0.34	1.52	0.29	0.3	4.18	0.008	0.21	4.4	3.3	12.00	347	0.48	0.01	1.1	5.5
M666360		0.35	1.76	0.32	0.4	3.03	0.006	0.26	4.5	3.4	11.65	267	0.41	0.01	1.1	5.2
M666361		0.48	1.95	0.22	0.3	3.54	0.008	0.29	5.1	4.7	10.70	452	0.39	0.01	1.2	5.7
M666362		0.37	2.17	0.29	0.4	2.08	0.008	0.36	6.0	4.5	11.65	235	0.33	0.01	1.6	5.9
M666363		0.59	2.08	0.19	0.4	8.13	0.009	0.34	5.6	5.3	9.94	388	0.30	0.01	1.2	5.5
M666364		6.66	20.3	0.33	4.2	9.84	0.052	1.30	64.2	17.6	0.13	35	6.64	0.37	9.6	15.4
M666365		1.64	3.94	0.13	0.9	3.44	0.015	0.73	9.7	7.3	9.70	627	0.56	0.01	2.6	5.8
M666366		1.07	4.75	0.14	1.2	0.77	0.012	0.91	10.4	7.5	9.27	309	0.52	0.02	3.0	6.0
M666367		0.93	8.69	<0.05	1.9	0.44	0.023	1.55	17.4	13.4	2.55	183	0.60	0.02	5.3	3.6
M666368		1.32	8.05	<0.05	1.4	0.17	0.024	1.50	16.7	15.3	2.94	217	0.54	0.02	4.4	6.3
M666369		1.75	12.00	0.05	1.4	0.19	0.028	2.35	22.4	26.0	2.52	202	0.56	0.02	5.8	18.2
M666370		2.10	8.25	0.05	1.7	4.82	0.028	1.00	25.0	36.8	2.56	264	17.70	0.03	6.8	52.7
M666371		1.25	7.86	<0.05	1.1	0.16	0.020	1.52	15.7	15.1	3.05	215	0.62	0.02	4.1	9.0
M666372		1.73	10.45	0.05	2.5	0.44	0.024	2.16	20.8	20.7	5.97	293	0.72	0.03	5.6	16.5
M666373		1.23	3.83	<0.05	0.7	4.17	0.014	0.72	10.0	6.4	10.30	332	0.57	0.01	2.3	4.9
M666374		0.67	2.42	<0.05	0.7	1.88	0.011	0.44	7.7	4.2	10.95	262	0.34	0.01	1.5	1.7
M666375		1.74	8.86	<0.05	1.9	0.10	0.029	1.63	23.6	9.0	0.49	355	0.30	0.02	6.2	12.7
M666376		1.75	9.15	0.06	1.9	0.09	0.029	1.69	24.6	9.4	0.47	358	0.30	0.02	6.4	12.2
M666377		2.58	9.29	<0.05	1.3	0.11	0.027	1.68	19.2	9.8	2.43	642	0.38	0.03	5.0	10.9
M666378		2.02	6.79	<0.05	1.1	0.08	0.021	1.26	17.0	7.3	2.13	627	0.27	0.02	4.2	6.8
M666379		2.71	14.80	0.08	2.9	0.12	0.050	2.81	36.0	14.1	0.53	314	0.46	0.03	9.6	25.2
M666380		2.07	9.95	0.06	2.0	0.10	0.031	1.82	26.3	9.6	1.18	579	0.36	0.03	6.6	13.2
M666381		0.48	0.47	0.11	<0.1	<0.01	0.005	0.04	0.7	1.0	13.10	207	0.13	0.02	0.4	<0.2
M666382		1.54	6.51	0.05	1.4	0.11	0.023	1.26	21.9	6.6	0.48	410	0.32	0.02	4.6	8.0
M666383		2.44	13.90	0.08	2.6	0.13	0.046	2.65	32.8	13.0	0.56	229	0.45	0.03	8.9	22.1
M666384		2.28	11.25	0.06	2.2	0.12	0.036	2.12	28.6	9.9	0.63	428	0.39	0.03	7.3	16.5
M666385		2.53	10.65	0.08	1.9	0.13	0.033	2.00	29.0	8.9	0.49	369	0.51	0.03	6.8	15.1
M666386		2.44	13.40	0.07	2.7	0.13	0.041	2.56	34.9	11.2	0.59	265	0.50	0.03	8.8	22.3

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12139370**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666351		740	10.7	26.4	<0.002	0.06	0.63	2.5	2	0.7	159.0	0.17	<0.05	3.4	0.058	5.23
M666352		520	6.7	23.2	<0.002	0.06	0.97	2.2	2	0.7	96.0	0.17	<0.05	3.3	0.055	7.97
M666353		170	2.3	3.5	<0.002	0.01	<0.05	0.4	1	<0.2	46.1	<0.05	<0.05	2.1	0.006	0.05
M666354		320	8.2	23.2	0.002	0.02	0.62	2.2	2	0.5	111.5	0.15	<0.05	2.8	0.052	6.13
M666355		250	6.7	12.2	<0.002	0.02	0.71	1.2	2	0.3	107.0	0.08	<0.05	1.5	0.026	12.55
M666356		200	12.9	18.8	<0.002	0.05	0.98	1.8	2	0.4	111.5	0.13	<0.05	2.4	0.043	15.30
M666357		110	9.3	8.9	<0.002	0.02	1.04	1.1	1	0.3	109.5	0.08	<0.05	1.4	0.026	9.01
M666358		110	8.4	7.2	<0.002	0.02	0.93	1.2	1	0.2	114.0	0.06	<0.05	1.2	0.025	8.48
M666359		120	8.8	7.5	<0.002	0.04	1.14	1.2	1	0.3	115.0	0.05	<0.05	1.1	0.024	5.58
M666360		110	6.5	8.3	<0.002	0.06	0.67	1.2	1	0.2	112.5	0.06	<0.05	1.2	0.026	3.07
M666361		200	7.4	9.7	<0.002	0.02	1.44	1.6	1	0.2	166.5	0.06	<0.05	1.3	0.029	4.88
M666362		140	5.8	11.7	<0.002	0.04	2.19	1.5	1	0.2	128.0	0.07	<0.05	1.4	0.035	4.03
M666363		210	7.4	10.5	<0.002	0.04	5.45	1.3	2	0.2	109.5	0.06	<0.05	1.4	0.030	10.05
M666364		870	16.1	45.4	0.003	2.93	105.0	15.4	2	2.7	480	0.63	0.11	8.7	0.543	7.87
M666365		270	9.5	22.5	<0.002	0.09	1.53	2.8	1	0.5	101.0	0.15	<0.05	3.0	0.067	3.42
M666366		220	6.9	26.5	<0.002	0.04	0.42	3.1	2	0.5	98.8	0.19	<0.05	3.7	0.083	1.56
M666367		540	10.4	50.7	<0.002	0.20	0.59	6.5	2	0.9	338	0.38	<0.05	6.7	0.140	1.86
M666368		340	6.7	48.6	<0.002	0.36	0.28	6.0	2	0.8	460	0.31	<0.05	6.0	0.120	1.46
M666369		470	12.7	78.9	<0.002	0.88	0.33	8.8	2	1.0	618	0.42	<0.05	8.1	0.162	2.20
M666370		870	35.5	46.7	0.023	1.55	91.5	6.2	4	2.2	71.9	0.44	0.16	6.3	0.172	3.99
M666371		390	10.5	50.0	<0.002	0.56	0.32	5.8	2	0.7	529	0.28	<0.05	5.5	0.112	1.44
M666372		600	15.2	69.0	0.002	0.89	0.37	7.4	2	1.0	134.0	0.42	<0.05	7.8	0.161	3.00
M666373		280	9.9	23.3	<0.002	0.68	0.52	2.9	2	0.4	119.5	0.15	<0.05	2.9	0.059	2.34
M666374		230	6.0	14.6	<0.002	0.31	0.22	2.0	2	0.3	92.5	0.11	<0.05	2.0	0.038	1.28
M666375		190	17.9	65.1	<0.002	0.20	0.47	7.2	2	0.9	473	0.46	<0.05	7.6	0.213	1.02
M666376		190	18.4	67.4	<0.002	0.21	0.46	7.4	1	1.0	479	0.47	<0.05	8.0	0.216	1.06
M666377		950	24.3	62.5	<0.002	0.12	0.46	6.7	2	0.9	415	0.34	<0.05	6.8	0.143	5.13
M666378		390	19.1	48.8	<0.002	0.10	0.40	5.3	1	0.7	486	0.28	<0.05	5.4	0.126	2.70
M666379		180	34.9	110.5	<0.002	0.08	0.77	11.1	2	1.6	240	0.72	<0.05	12.2	0.316	5.49
M666380		510	24.3	73.3	0.002	0.20	0.44	7.6	2	1.0	338	0.46	<0.05	8.2	0.220	3.91
M666381		180	1.4	1.9	<0.002	<0.01	0.05	0.4	1	<0.2	49.9	<0.05	<0.05	<0.2	<0.005	0.04
M666382		190	21.4	49.4	<0.002	0.37	0.35	5.0	2	0.7	389	0.33	<0.05	5.9	0.164	2.27
M666383		170	31.1	106.5	0.002	0.56	0.62	10.2	2	1.5	192.0	0.67	<0.05	11.3	0.292	2.42
M666384		230	29.2	83.9	0.002	0.88	0.47	8.2	2	1.2	269	0.53	<0.05	9.3	0.249	2.03
M666385		360	29.8	77.7	0.002	0.58	0.47	8.1	2	1.1	393	0.49	<0.05	8.7	0.239	2.29
M666386		350	28.3	97.9	0.003	0.48	0.60	9.9	2	1.4	251	0.67	<0.05	11.3	0.321	1.83

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12139370**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M666351		5.4	17	4.7	10.6	49	43.2
M666352		3.5	15	1.3	9.5	68	40.1
M666353		23.3	2	0.4	1.1	15	0.8
M666354		9.6	23	1.4	6.9	62	26.9
M666355		6.8	10	1.2	4.7	29	17.6
M666356		11.0	17	2.0	5.0	27	23.4
M666357		7.4	10	1.5	3.0	38	12.6
M666358		7.0	12	1.6	2.7	33	12.6
M666359		6.7	11	1.0	2.7	47	12.0
M666360		6.8	14	1.0	3.0	28	14.9
M666361		6.1	18	1.0	3.3	27	13.2
M666362		7.0	15	1.2	3.6	10	15.0
M666363		6.3	19	3.8	4.0	29	14.8
M666364		7.5	165	23.0	14.9	42	175.0
M666365		8.5	29	1.4	6.5	101	35.8
M666366		9.8	31	1.3	7.1	65	43.1
M666367		9.8	48	1.3	12.2	36	65.3
M666368		9.9	49	0.8	11.5	30	51.9
M666369		9.2	61	0.8	12.5	27	50.3
M666370		8.6	227	28.9	20.5	211	60.6
M666371		10.8	44	0.6	9.2	41	40.6
M666372		7.1	57	0.9	13.6	38	84.9
M666373		5.3	24	0.9	6.6	45	26.0
M666374		5.4	18	0.7	5.5	5	24.7
M666375		3.5	39	1.8	17.5	14	68.5
M666376		3.6	40	1.9	17.6	15	69.6
M666377		3.6	37	1.2	12.4	37	53.7
M666378		3.2	28	0.7	11.8	34	44.9
M666379		4.0	65	1.3	21.0	37	95.0
M666380		3.6	44	0.9	16.0	22	72.8
M666381		0.6	4	0.1	1.0	18	0.6
M666382		3.2	29	0.7	12.6	37	53.3
M666383		3.7	62	1.2	19.3	40	89.0
M666384		3.4	52	1.0	16.2	28	77.2
M666385		3.9	51	2.0	15.6	24	67.4
M666386		3.7	64	1.3	19.4	33	90.6



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**CERTIFICATE OF ANALYSIS WH12139370**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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**CERTIFICATE WH12131150**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 018  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12131150**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K305931		10.93	0.06	0.07	1.21	174	60	0.50	0.03	18.55	0.05	16.35	2.8	12	3.93	8.2
K305932		11.52	0.36	0.07	0.91	237	60	0.27	0.03	18.85	0.02	12.65	2.8	12	2.60	7.3
K305933		5.07	0.14	0.05	1.18	52	50	0.40	0.03	18.70	0.02	16.10	2.9	15	3.79	7.8
K305934		8.56	0.04	0.08	2.02	40	70	0.71	0.05	16.70	0.02	24.1	4.7	21	7.97	13.0
K305935		8.77	0.93	0.06	1.98	1240	60	0.65	0.05	17.00	0.03	22.5	4.7	17	6.75	12.3
K305936		12.09	0.90	0.08	1.21	1400	60	0.47	0.03	18.60	0.02	16.35	3.7	12	4.05	8.1
K305937		11.08	0.71	0.10	2.43	3100	70	0.64	0.05	15.05	0.03	25.3	6.2	23	6.72	14.2
K305938		6.99	<0.01	<0.01	0.08	12	20	<0.05	0.02	21.4	0.07	1.20	1.3	1	0.33	1.4
K305939		4.53	0.70	0.10	2.46	1280	200	0.62	0.07	15.70	0.04	27.8	6.4	25	6.35	14.7
K305940		4.50	1.25	0.15	3.39	3470	220	0.82	0.10	12.00	0.07	40.9	6.2	34	8.13	17.2
K305941		10.84	0.01	0.05	3.08	127	150	0.93	0.09	21.2	0.10	33.3	4.4	29	8.65	19.1
K305942		0.28	15.85	0.95	2.00	1220	130	0.33	0.55	15.15	0.65	31.0	3.9	35	2.38	62.1
K305943		12.05	0.01	0.05	2.16	54	120	0.69	0.06	24.5	0.08	25.6	3.9	22	5.63	15.9
K305944		11.51	<0.01	0.05	1.44	38	230	0.47	0.04	28.2	0.08	17.35	3.1	16	2.91	8.8
K305945		12.45	<0.01	0.06	2.44	49	130	0.77	0.06	24.9	0.12	27.8	4.8	25	5.17	14.8
K305946		5.55	0.01	0.11	4.78	60	310	1.20	0.14	16.05	0.48	47.1	7.5	50	9.53	37.6
K305947		<0.02	0.01	0.11	4.88	61	300	1.20	0.14	15.75	0.53	47.8	7.9	51	9.56	39.6
K305948		8.73	<0.01	0.54	4.24	67	130	1.10	0.11	14.30	0.77	50.9	17.1	54	8.85	43.1
K305949		5.81	0.01	0.13	6.46	172.0	320	1.42	0.25	2.90	0.16	59.9	18.3	68	22.8	57.6
K305950		6.17	<0.01	0.20	5.17	75.2	310	0.99	0.18	3.33	0.09	47.2	16.8	59	17.55	45.4
K305951		2.96	<0.01	0.10	5.49	71.8	290	1.32	0.20	2.80	0.10	51.9	17.8	59	19.45	45.1
K305952		3.31	<0.01	0.22	6.78	37.9	600	1.68	0.25	2.17	0.09	66.7	19.3	68	25.5	52.1
K305953		4.48	<0.01	<0.01	5.66	21.5	460	1.30	0.17	4.17	0.09	64.2	17.8	56	25.6	38.9
K305954		3.65	0.01	0.04	6.42	16.3	350	1.46	0.23	2.24	0.12	62.9	16.5	68	28.6	46.1
K305955		8.37	<0.01	0.03	6.31	44.2	180	1.72	0.22	3.78	0.07	62.2	19.5	64	34.8	44.2
K305956		4.37	<0.01	0.39	7.06	61.5	310	1.75	0.24	2.79	0.05	66.8	19.3	70	38.0	48.2
K305957		2.82	<0.01	0.03	8.05	274	550	2.00	0.32	3.31	0.09	83.1	18.5	58	39.9	37.1
K305958		6.47	<0.01	0.03	3.15	81	250	0.81	0.13	23.5	0.22	38.9	9.4	26	15.30	25.5
K305959		7.99	<0.01	0.03	3.29	63	250	0.81	0.15	22.3	0.26	41.7	9.1	27	15.85	26.1
K305960		7.86	<0.01	0.07	4.01	101	310	1.31	0.16	20.9	0.28	49.0	10.7	33	17.15	30.4
K305961		0.28	4.30	0.78	2.93	522	770	0.59	0.48	10.05	0.63	45.3	5.2	41	2.55	30.5
K305962		7.94	0.01	0.03	2.69	92	310	0.69	0.11	25.7	0.20	36.1	7.1	22	9.87	19.9
K305963		7.13	<0.01	0.04	2.24	81	180	0.56	0.10	28.1	0.16	29.2	6.0	17	7.52	17.2
K305964		4.98	<0.01	<0.01	0.11	<5	20	0.07	0.02	21.1	0.07	1.23	1.7	1	0.29	1.6
K305965		1.65	<0.01	0.02	1.91	69	360	0.49	0.07	28.8	0.14	24.8	5.6	15	7.91	15.0
K305966		6.07	<0.01	0.01	0.90	58	1330	0.39	0.04	32.9	0.07	14.15	4.6	8	2.99	11.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12131150**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K305931		0.63	3.16	0.09	0.7	0.90	0.009	0.61	9.5	6.0	10.90	295	0.36	0.02	2.1	6.7
K305932		0.79	2.45	0.10	0.4	2.62	0.008	0.43	7.6	4.0	11.05	551	0.42	0.02	1.6	6.7
K305933		0.65	2.98	0.12	0.7	1.24	0.007	0.53	9.5	5.7	11.05	357	0.40	0.02	2.0	6.6
K305934		0.97	5.36	0.12	1.1	1.46	0.012	1.03	13.2	8.0	9.78	234	0.48	0.02	3.5	12.0
K305935		0.99	5.35	0.11	0.9	4.90	0.014	0.97	12.4	8.7	9.61	551	0.24	0.02	3.1	12.6
K305936		0.85	3.20	0.11	0.6	3.00	0.014	0.59	9.6	5.1	10.60	440	0.48	0.01	2.0	8.8
K305937		1.74	6.12	0.10	1.1	16.3	0.019	1.14	14.0	7.6	8.77	489	0.53	0.08	3.6	16.2
K305938		0.47	0.34	0.15	<0.1	0.03	0.005	0.04	0.6	0.9	12.75	214	0.19	<0.01	0.3	2.5
K305939		1.73	6.40	0.11	1.2	15.4	0.021	1.22	15.3	6.3	8.88	668	0.32	0.02	4.2	14.9
K305940		1.50	9.15	0.13	1.6	23.5	0.031	1.55	21.3	9.8	6.49	1020	0.25	0.02	5.7	15.2
K305941		0.85	8.45	0.11	1.4	1.04	0.024	1.56	17.7	7.0	2.91	854	0.39	0.02	5.3	8.2
K305942		3.54	4.13	0.12	0.9	5.54	0.057	0.41	17.8	35.8	0.73	441	12.15	0.01	3.6	22.0
K305943		0.57	6.06	0.09	1.1	0.30	0.020	1.10	13.8	5.0	1.70	1280	0.35	0.02	3.9	7.6
K305944		0.45	4.05	0.10	0.7	0.23	0.012	0.73	9.5	3.2	1.54	1740	0.44	0.01	2.6	5.6
K305945		0.63	6.74	0.11	1.1	0.30	0.018	1.23	14.8	5.6	1.85	2560	0.43	0.02	4.3	9.7
K305946		1.16	12.95	0.12	1.9	0.50	0.040	2.36	25.7	9.5	2.59	2350	0.38	0.03	8.0	12.4
K305947		1.18	13.30	0.12	2.0	0.52	0.040	2.42	26.0	9.8	2.62	2340	0.39	0.03	8.4	12.9
K305948		1.46	10.70	0.13	2.2	0.52	0.031	2.02	26.6	10.8	2.71	2410	2.08	0.04	7.3	21.2
K305949		4.74	17.95	0.19	3.1	1.94	0.070	3.07	29.1	24.5	1.51	515	0.77	0.03	10.7	39.4
K305950		4.77	13.75	0.17	2.5	0.42	0.054	2.19	23.2	52.8	1.68	644	0.44	0.02	8.2	32.7
K305951		5.07	13.90	0.16	2.5	0.44	0.061	2.32	24.4	82.0	1.48	594	0.48	0.02	8.6	34.3
K305952		4.15	17.95	0.16	3.2	0.44	0.071	2.94	31.7	72.8	1.35	419	0.55	0.03	9.8	37.7
K305953		5.01	14.35	0.18	2.7	0.10	0.062	2.16	29.8	110.0	2.35	922	0.62	0.04	16.5	28.1
K305954		4.85	16.25	0.17	2.8	0.15	0.066	2.83	29.8	87.9	1.88	526	0.32	0.04	10.8	30.8
K305955		4.69	16.60	0.18	2.6	0.32	0.066	2.81	29.7	91.9	1.95	521	0.62	0.04	9.0	31.6
K305956		5.00	18.40	0.17	2.9	0.47	0.070	3.17	31.5	89.2	1.54	555	0.33	0.05	9.6	32.9
K305957		4.88	20.4	0.19	2.9	0.53	0.068	3.61	41.8	32.6	1.62	470	0.51	0.06	10.8	34.2
K305958		2.10	7.49	0.10	1.5	0.56	0.032	1.42	19.8	11.6	1.18	576	1.43	0.03	4.3	14.7
K305959		2.01	7.80	0.10	1.6	0.26	0.035	1.46	21.9	12.9	1.38	546	1.49	0.03	4.5	14.5
K305960		2.23	9.23	0.15	1.8	0.43	0.038	1.81	26.1	12.9	1.34	493	1.38	0.03	5.0	20.2
K305961		1.80	6.35	0.10	1.5	4.29	0.029	0.89	25.6	55.8	5.24	368	9.25	0.02	5.5	30.8
K305962		1.64	6.37	0.08	1.3	0.46	0.029	1.22	19.1	8.4	1.22	564	0.94	0.02	3.8	10.8
K305963		1.28	5.24	0.08	1.1	0.26	0.023	1.02	14.7	6.4	1.09	350	0.99	0.02	3.0	8.3
K305964		0.48	0.30	0.05	<0.1	<0.01	<0.005	0.05	0.6	1.2	13.15	237	0.10	0.01	0.3	0.9
K305965		1.18	4.41	0.08	1.0	0.14	0.021	0.89	10.6	6.5	0.85	400	0.65	0.02	2.6	7.0
K305966		0.74	2.98	0.06	0.5	0.38	0.010	0.41	7.1	3.4	0.53	458	0.36	0.02	1.8	5.5



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12131150**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K305931		220	7.6	19.2	0.002	0.35	9.07	2.2	1	0.4	103.0	0.16	<0.05	2.6	0.054	1.75
K305932		190	7.3	13.5	<0.002	0.33	3.62	1.8	1	0.4	106.0	0.11	<0.05	1.9	0.040	3.29
K305933		160	7.1	16.8	<0.002	0.56	3.92	2.1	1	0.4	95.1	0.14	<0.05	2.5	0.051	2.36
K305934		340	10.6	31.1	0.002	0.93	2.79	3.4	2	0.7	82.8	0.25	<0.05	4.4	0.090	3.70
K305935		220	8.7	31.8	<0.002	0.92	5.27	3.5	2	0.7	102.0	0.24	<0.05	3.9	0.083	10.35
K305936		220	11.1	18.8	0.002	0.81	2.62	2.2	1	0.4	95.6	0.14	<0.05	2.6	0.051	9.54
K305937		320	18.3	36.6	<0.002	1.67	2.13	4.1	2	0.8	100.0	0.27	<0.05	4.7	0.105	46.2
K305938		180	1.3	2.1	<0.002	0.01	0.74	0.4	1	<0.2	44.1	<0.05	<0.05	<0.2	<0.005	0.09
K305939		280	13.8	39.9	<0.002	1.28	3.87	4.3	2	1.0	108.5	0.32	<0.05	5.4	0.112	32.3
K305940		410	9.4	53.5	<0.002	0.72	4.73	5.8	3	1.3	167.5	0.43	<0.05	7.1	0.151	41.6
K305941		300	8.1	50.2	0.002	0.29	1.38	5.3	2	1.1	342	0.40	<0.05	6.4	0.138	1.54
K305942		650	21.0	23.8	0.007	2.01	151.5	4.1	2	2.1	48.2	0.25	0.39	3.6	0.109	3.67
K305943		300	8.6	35.1	0.002	0.18	2.44	3.9	2	0.8	533	0.28	<0.05	4.8	0.098	0.77
K305944		190	9.3	22.7	0.002	0.15	1.01	2.6	2	0.5	942	0.18	<0.05	3.2	0.065	0.55
K305945		330	14.7	38.5	<0.002	0.21	0.95	4.3	2	0.9	792	0.31	<0.05	5.3	0.112	0.72
K305946		510	50.4	74.3	<0.002	0.25	1.30	8.2	2	1.7	438	0.60	<0.05	10.0	0.221	0.85
K305947		510	52.7	77.1	0.002	0.27	1.28	8.6	2	1.7	433	0.64	<0.05	10.1	0.227	0.83
K305948		710	56.6	64.2	0.003	0.63	1.79	7.0	3	1.5	518	0.58	<0.05	10.1	0.211	1.27
K305949		460	17.6	139.5	0.003	4.07	1.05	18.7	2	2.1	153.0	0.80	0.06	9.8	0.515	5.09
K305950		470	16.7	109.0	<0.002	4.25	0.96	14.5	1	1.6	355	0.61	<0.05	7.7	0.456	2.46
K305951		530	18.9	128.5	<0.002	5.03	1.23	14.9	2	1.9	358	0.64	0.06	7.7	0.489	2.26
K305952		530	15.5	172.0	0.002	3.60	1.42	19.6	2	2.3	269	0.78	0.06	10.6	0.526	2.47
K305953		1040	10.8	131.0	<0.002	0.57	1.08	15.0	2	1.8	212	1.01	0.05	7.6	0.618	0.72
K305954		650	12.6	153.0	<0.002	0.64	1.05	17.8	2	2.1	146.0	0.81	0.05	8.9	0.547	0.87
K305955		470	14.0	147.0	0.002	2.66	1.22	19.0	2	2.1	170.5	0.69	0.05	8.7	0.450	1.69
K305956		350	14.7	161.5	0.002	3.63	0.95	21.0	2	2.4	164.0	0.73	0.05	9.8	0.478	1.95
K305957		540	18.0	171.0	<0.002	4.55	1.37	15.8	2	2.6	228	0.88	0.07	13.9	0.436	1.69
K305958		430	11.1	70.6	0.007	1.94	1.43	7.3	2	1.0	1950	0.32	0.06	4.8	0.182	2.59
K305959		290	9.3	71.7	0.006	1.81	1.32	7.2	2	1.1	1770	0.34	0.06	5.1	0.181	2.24
K305960		270	10.1	77.2	0.007	2.11	1.60	8.7	2	1.2	1890	0.39	0.06	5.3	0.224	1.67
K305961		570	9.2	50.7	0.010	1.62	105.0	4.6	3	2.9	66.9	0.39	0.22	6.4	0.159	2.27
K305962		220	7.1	59.1	0.005	1.42	1.16	6.1	2	0.9	2150	0.28	0.05	4.0	0.144	1.19
K305963		450	6.8	47.8	0.005	1.20	1.07	4.9	2	0.7	2050	0.23	<0.05	3.3	0.118	1.79
K305964		180	1.1	2.2	<0.002	0.02	0.47	0.5	1	<0.2	48.5	<0.05	<0.05	<0.2	<0.005	0.02
K305965		410	5.0	43.3	0.003	1.06	1.41	4.4	2	0.6	1980	0.19	<0.05	2.7	0.112	3.00
K305966		280	3.0	22.5	<0.002	0.59	1.28	3.6	1	0.3	2150	0.09	<0.05	1.5	0.053	1.59

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**CERTIFICATE OF ANALYSIS WH12131150**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K305931		7.6	20	1.1	6.2	5	25.8
K305932		8.8	17	0.9	4.8	3	14.1
K305933		10.5	18	1.1	5.7	4	24.3
K305934		12.0	33	1.5	8.2	4	39.9
K305935		7.3	30	1.8	7.6	5	33.7
K305936		11.4	23	1.2	5.7	3	20.0
K305937		7.1	38	2.1	8.2	8	40.8
K305938		0.6	3	0.1	0.9	15	<0.5
K305939		6.4	37	2.4	9.7	7	45.4
K305940		8.5	46	3.6	12.5	15	57.4
K305941		10.1	41	1.2	11.6	26	52.7
K305942		3.5	110	229	17.8	77	31.9
K305943		10.1	29	0.7	9.2	21	40.5
K305944		13.1	21	0.4	6.2	21	25.2
K305945		11.1	34	0.6	9.7	41	42.9
K305946		7.5	74	1.0	15.5	160	69.8
K305947		7.5	75	1.0	16.1	175	73.2
K305948		9.2	83	0.9	18.0	215	79.3
K305949		2.3	140	2.1	22.9	102	111.0
K305950		1.7	126	2.2	17.9	73	86.7
K305951		1.7	135	2.1	18.0	82	96.1
K305952		2.1	146	2.6	21.1	77	116.0
K305953		1.6	138	1.1	21.6	78	106.5
K305954		1.9	141	1.3	20.6	83	103.0
K305955		1.9	135	1.1	20.4	77	97.3
K305956		1.9	145	2.5	21.3	79	107.0
K305957		2.5	109	1.5	21.6	90	103.5
K305958		3.1	56	0.7	21.5	46	56.1
K305959		3.1	56	0.7	23.9	52	58.9
K305960		2.7	68	0.9	20.4	65	60.8
K305961		5.8	99	75.7	16.5	77	57.4
K305962		2.3	42	1.4	20.1	40	50.2
K305963		2.9	36	1.1	18.9	20	40.1
K305964		0.4	2	2.3	0.9	13	<0.5
K305965		2.3	30	0.5	19.3	25	34.8
K305966		1.8	13	0.5	12.6	13	20.8



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**CERTIFICATE OF ANALYSIS WH12131150**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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 Finalized Date: 9- JUL- 2012  
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**CERTIFICATE WH12144532**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 025  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 22- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

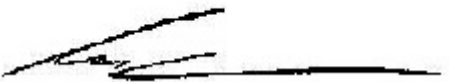
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 9- JUL- 2012  
 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12144532**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666501		5.95	0.02	0.22	2.25	210	150	0.74	0.07	15.60	0.09	25.1	2.7	18	4.22	12.0
M666502		7.11	0.03	0.05	0.40	153	40	0.21	0.02	20.5	0.03	6.30	1.1	2	0.55	3.4
M666503		10.39	0.03	0.13	0.96	219	80	0.33	0.04	20.1	0.03	11.60	2.3	7	1.42	9.3
M666504		5.95	0.05	0.25	1.88	132	130	0.64	0.06	13.85	0.03	23.9	2.8	16	3.44	8.4
M666505		5.37	0.17	0.12	0.55	369	70	0.30	0.03	20.8	0.02	9.81	1.1	3	0.70	3.9
M666506		8.49	<0.01	0.15	0.42	801	60	0.20	0.02	21.6	0.03	8.52	2.1	2	0.52	8.0
M666507		6.90	<0.01	0.01	0.08	<5	20	0.05	0.02	21.7	0.05	1.19	0.7	<1	0.41	2.1
M666508		7.29	0.66	0.08	0.38	915	50	0.19	0.02	21.7	0.07	7.06	1.2	2	0.60	5.4
M666509		9.53	0.18	0.60	3.18	465	240	1.00	0.09	12.75	0.09	39.6	5.0	28	7.64	20.1
M666510		0.21	0.31	0.35	6.51	642	90	0.65	0.31	0.53	0.18	150.0	2.9	237	3.53	34.3
M666511		11.32	0.12	0.40	1.22	394	160	0.34	0.04	18.40	<0.02	16.45	2.0	9	2.10	7.0
M666512		10.20	0.29	0.07	0.19	504	30	0.10	0.01	21.6	0.02	4.12	0.7	1	0.23	3.0
M666513		10.41	0.01	0.05	1.43	189	300	0.46	0.05	31.5	0.09	18.70	2.6	13	3.80	7.7
M666514		10.82	<0.01	0.09	3.48	32	180	1.06	0.09	20.0	0.13	42.5	5.8	32	11.85	17.4
M666515		10.20	<0.01	0.08	2.38	88	2160	0.76	0.07	22.0	0.07	31.4	4.1	21	7.42	20.2
M666516		12.07	0.04	0.07	2.24	452	390	0.80	0.06	22.5	0.12	30.5	3.7	21	6.14	13.8
M666517		<0.02	0.04	0.07	2.23	461	380	0.74	0.07	22.7	0.14	31.6	3.9	21	6.27	14.5
M666518		8.78	0.13	0.06	2.19	1620	150	0.73	0.06	27.5	0.22	28.9	3.4	21	5.53	16.0
M666519		10.15	0.10	0.05	2.80	1110	540	0.88	0.08	22.5	0.20	33.2	4.9	25	6.49	19.2
M666520		9.96	0.10	0.06	2.75	1390	600	0.92	0.08	24.4	0.12	33.8	5.0	25	8.24	18.8
M666521		8.62	0.19	0.02	3.77	1960	280	1.31	0.10	17.20	0.10	45.1	5.4	34	12.60	25.0
M666522		7.14	0.77	0.09	3.36	2570	210	1.01	0.09	16.30	0.24	45.0	5.8	32	9.57	17.9
M666523		9.90	1.59	0.07	4.23	2800	310	1.29	0.10	14.10	0.12	45.7	5.4	42	11.75	26.0
M666524		10.95	0.01	0.02	3.56	207	1310	1.14	0.10	21.5	0.08	37.2	6.1	30	10.95	26.2
M666525		5.18	0.01	0.02	3.30	210	1330	1.01	0.10	20.5	0.07	36.7	5.6	28	10.05	22.1
M666526		10.84	0.02	0.02	3.17	180	410	0.94	0.10	22.1	0.14	35.2	4.9	28	7.74	17.8
M666527		11.08	<0.01	0.03	3.65	49	170	1.04	0.09	16.45	0.07	40.6	5.8	35	12.15	22.2
M666528		9.82	<0.01	0.03	2.68	96	590	0.90	0.08	18.90	0.10	32.3	4.3	25	6.36	17.0
M666529		11.56	<0.01	0.03	3.49	16	160	1.03	0.12	16.90	0.07	37.4	5.8	31	9.45	20.6
M666530		0.20	0.41	0.40	6.40	626	300	0.57	0.27	0.68	0.18	142.5	3.7	225	3.29	16.5
M666531		11.05	<0.01	0.03	2.67	13	100	0.85	0.09	21.6	0.07	30.5	4.8	23	5.08	17.1
M666532		10.89	<0.01	0.03	1.99	31	940	0.56	0.07	26.4	0.26	23.4	3.2	17	3.33	14.7
M666533		6.92	<0.01	<0.01	0.06	<5	20	<0.05	0.02	20.2	0.04	1.14	0.7	<1	0.25	2.4
M666534		10.16	<0.01	0.04	2.31	37	250	0.78	0.07	24.2	0.28	27.2	3.9	22	2.95	14.4
M666535		10.56	0.01	0.06	2.96	29	140	0.87	0.09	21.4	0.17	33.7	4.9	26	3.88	19.3
M666536		6.65	<0.01	0.35	4.20	34	120	1.22	0.12	10.55	0.69	51.0	14.1	45	5.03	37.2

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 Plus Appendix Pages  
 Finalized Date: 9- JUL- 2012  
 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12144532**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M666501		0.96	5.22	0.08	2.5	1.27	0.015	1.07	12.8	10.8	8.43	484	1.15	0.02	3.4	7.8
M666502		0.75	1.05	0.11	0.3	0.70	0.005	0.17	3.5	2.8	11.15	840	0.40	0.02	0.6	2.7
M666503		1.23	2.14	0.08	0.8	1.62	0.011	0.41	6.5	5.2	9.72	727	0.62	0.02	1.4	7.5
M666504		0.80	4.79	0.13	2.6	1.82	0.015	0.85	11.7	10.2	7.66	327	1.67	0.02	3.3	7.5
M666505		1.02	1.34	0.12	0.5	2.4	0.008	0.22	5.1	3.4	10.70	858	0.40	0.01	0.8	3.2
M666506		1.85	1.07	0.11	0.3	4.57	0.005	0.16	5.1	2.9	11.35	1040	0.64	0.02	0.7	5.7
M666507		0.49	0.27	0.18	<0.1	0.1	0.005	0.04	0.6	1.3	13.35	224	0.12	<0.01	0.2	2.1
M666508		1.35	0.96	0.12	0.3	2.1	0.005	0.16	4.0	2.6	11.65	962	0.28	0.02	0.6	4.2
M666509		1.27	7.91	0.13	2.6	3.1	0.024	1.40	19.0	20.0	6.90	627	1.92	0.02	5.3	12.8
M666510		7.15	21.1	0.21	4.8	9.2	0.049	1.36	72.9	19.6	0.15	35	7.17	0.40	10.2	18.5
M666511		0.94	2.81	0.11	1.6	2.22	0.010	0.53	8.2	6.2	9.73	1060	0.62	0.02	2.0	4.6
M666512		0.86	0.49	0.13	0.2	1.92	<0.005	0.08	2.4	1.4	11.65	1140	0.73	0.02	0.3	2.0
M666513		0.68	3.39	0.09	0.6	0.18	0.012	0.81	10.5	8.2	1.03	130	0.39	0.01	2.1	6.8
M666514		1.45	8.73	0.16	2.1	0.21	0.026	1.99	21.4	25.2	2.65	178	0.96	0.03	5.5	15.6
M666515		1.52	5.82	0.14	1.1	0.2	0.019	1.31	15.5	17.6	4.45	223	0.82	0.03	3.7	11.2
M666516		1.09	5.55	0.15	1.4	0.18	0.016	1.23	15.5	24.4	2.92	176	0.80	0.02	3.8	9.7
M666517		1.09	5.74	0.18	1.4	0.19	0.018	1.22	16.0	24.8	2.93	176	0.84	0.02	3.9	9.9
M666518		0.92	5.40	0.18	1.1	0.21	0.017	1.07	15.2	30.4	1.71	189	0.37	0.02	3.4	8.1
M666519		1.33	6.69	0.18	1.5	0.13	0.020	1.30	17.2	34.2	3.06	203	0.44	0.02	4.4	11.0
M666520		1.34	6.74	0.22	1.2	0.43	0.019	1.46	17.1	23.7	2.45	282	0.39	0.02	4.3	12.0
M666521		1.69	9.48	0.24	1.8	1.00	0.026	1.85	22.7	29.0	2.56	372	0.32	0.03	6.1	15.8
M666522		1.56	7.89	0.18	1.9	3.45	0.025	1.55	23.7	16.0	3.80	867	0.53	0.02	5.5	14.2
M666523		1.96	10.45	0.18	2.1	2.88	0.036	2.01	23.7	22.4	4.08	1070	0.46	0.03	6.3	14.5
M666524		1.67	8.68	0.20	1.4	0.10	0.027	1.68	19.8	42.7	2.76	362	0.31	0.03	5.4	16.5
M666525		1.57	8.16	0.18	1.4	0.1	0.025	1.57	18.0	40.8	2.60	334	0.27	0.03	5.0	15.7
M666526		1.43	7.44	0.17	1.4	0.15	0.025	1.54	17.4	32.4	2.20	542	0.25	0.02	4.6	13.8
M666527		1.58	8.73	0.20	2.0	0.08	0.025	1.65	21.2	55.1	3.45	439	0.43	0.08	5.8	15.9
M666528		1.29	6.63	0.22	1.5	0.07	0.021	1.27	16.5	39.0	3.48	647	0.51	0.03	4.4	11.9
M666529		1.56	8.12	0.21	1.5	0.06	0.026	1.57	19.8	63.8	3.37	740	0.31	0.05	5.3	15.0
M666530		6.42	20.0	0.22	4.3	11.2	0.044	1.34	67.0	17.0	0.13	10	5.15	0.40	9.4	13.0
M666531		1.27	6.58	0.13	1.2	0.04	0.018	0.97	16.2	47.5	2.32	984	0.32	0.15	4.3	12.7
M666532		0.88	4.91	0.13	0.9	0.05	0.015	0.74	12.2	43.5	1.64	1720	0.38	0.05	3.1	8.4
M666533		0.45	0.24	0.21	<0.1	<0.01	<0.005	0.03	0.5	1.2	12.35	203	0.09	<0.01	0.2	2.0
M666534		1.02	5.58	0.15	1.1	0.06	0.020	0.86	13.7	38.6	2.15	1860	0.47	0.04	3.6	10.7
M666535		1.17	7.30	0.16	1.3	0.06	0.022	1.15	17.8	63.3	1.92	3030	0.39	0.04	4.6	12.7
M666536		1.79	10.80	0.17	2.3	0.11	0.035	1.66	25.8	86.1	4.38	3380	1.59	0.07	7.3	19.0

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12144532**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666501		480	11.7	29.0	<0.002	0.03	1.01	3.2	1	0.7	139.0	0.26	<0.05	4.8	0.106	4.15
M666502		200	4.7	5.2	<0.002	0.01	1.03	0.7	<1	0.2	83.7	0.05	<0.05	0.8	0.017	1.35
M666503		370	18.1	10.4	<0.002	0.09	1.82	1.4	<1	0.3	111.5	0.10	<0.05	1.9	0.043	2.87
M666504		440	10.5	25.9	<0.002	0.13	1.13	3.0	1	0.6	211	0.25	<0.05	4.5	0.091	3.68
M666505		170	6.5	6.3	<0.002	0.02	1.84	0.9	<1	0.2	140.0	0.06	<0.05	1.1	0.023	9.30
M666506		110	14.7	5.0	<0.002	0.02	3.66	0.7	<1	0.2	110.0	0.05	<0.05	0.8	0.017	18.55
M666507		190	1.3	2.0	<0.002	0.01	0.10	0.2	<1	<0.2	44.2	<0.05	<0.05	<0.2	<0.005	0.09
M666508		210	8.2	4.7	<0.002	0.01	2.97	0.6	<1	0.2	86.0	0.05	<0.05	0.8	0.016	13.00
M666509		960	17.6	48.0	<0.002	0.03	2.30	4.7	1	1.0	141.5	0.39	<0.05	7.3	0.148	10.50
M666510		990	17.7	49.4	0.002	3.17	120.5	16.0	1	3.1	557	0.77	0.12	10.2	0.571	8.64
M666511		350	9.0	16.1	<0.002	0.02	1.36	1.8	<1	0.4	116.5	0.16	<0.05	2.9	0.059	5.63
M666512		140	4.7	2.3	<0.002	0.01	0.70	0.3	<1	<0.2	63.6	<0.05	<0.05	0.4	0.008	4.21
M666513		230	10.9	27.0	<0.002	0.17	0.24	2.2	<1	0.4	1650	0.16	<0.05	2.8	0.061	0.70
M666514		400	14.3	79.8	<0.002	0.64	0.35	5.3	2	1.1	741	0.40	<0.05	7.4	0.154	0.97
M666515		330	7.4	53.5	<0.002	0.35	0.27	3.6	1	0.8	730	0.26	<0.05	5.1	0.100	0.68
M666516		350	10.1	49.9	<0.002	0.20	0.41	3.4	1	0.7	897	0.28	<0.05	5.2	0.104	2.19
M666517		360	10.1	52.6	<0.002	0.20	0.44	3.6	1	0.8	901	0.28	<0.05	5.2	0.104	2.27
M666518		380	7.8	46.5	<0.002	0.03	0.50	3.3	1	0.8	1075	0.26	<0.05	4.5	0.099	3.55
M666519		390	9.0	57.3	<0.002	0.11	0.50	4.2	<1	1.0	934	0.33	<0.05	6.0	0.126	2.53
M666520		310	7.1	62.3	<0.002	0.10	0.63	4.2	<1	0.9	658	0.32	<0.05	5.5	0.123	2.90
M666521		430	7.7	82.7	<0.002	0.07	0.82	5.7	1	1.2	490	0.44	<0.05	7.0	0.171	3.39
M666522		460	10.2	73.0	<0.002	0.04	0.74	4.9	1	1.1	399	0.39	<0.05	7.3	0.155	4.26
M666523		520	11.7	92.7	<0.002	0.06	0.61	6.2	1	1.4	326	0.48	<0.05	8.5	0.195	4.04
M666524		380	6.7	76.5	<0.002	0.10	0.30	5.3	1	1.2	456	0.38	<0.05	6.5	0.152	0.91
M666525		340	6.4	73.9	<0.002	0.09	0.24	4.9	1	1.1	420	0.37	<0.05	6.3	0.140	0.93
M666526		370	5.9	67.8	<0.002	0.23	0.24	4.5	<1	1.0	556	0.36	<0.05	6.2	0.139	0.88
M666527		490	9.1	83.4	<0.002	0.08	0.28	5.3	2	1.2	361	0.46	<0.05	7.5	0.169	0.58
M666528		330	6.8	56.0	<0.002	0.19	0.30	4.1	1	0.9	411	0.32	<0.05	5.9	0.125	0.67
M666529		380	7.8	77.6	<0.002	0.07	0.23	5.0	1	1.2	357	0.41	<0.05	7.0	0.157	0.54
M666530		970	14.0	48.7	<0.002	3.15	109.5	14.7	1	2.1	544	0.70	0.11	9.0	0.532	8.37
M666531		300	7.4	49.1	<0.002	0.16	0.36	4.0	1	0.9	483	0.32	<0.05	5.4	0.120	0.38
M666532		270	9.1	35.3	<0.002	0.13	0.22	3.0	<1	0.7	729	0.24	<0.05	4.1	0.087	0.32
M666533		160	1.3	1.6	<0.002	0.01	0.08	0.3	<1	<0.2	44.1	<0.05	<0.05	0.2	<0.005	<0.02
M666534		290	11.6	39.5	<0.002	0.13	0.18	3.5	<1	0.8	841	0.28	<0.05	5.0	0.105	0.37
M666535		400	13.4	55.1	<0.002	0.10	0.20	4.4	<1	1.0	816	0.35	<0.05	6.1	0.128	0.43
M666536		590	63.7	68.4	<0.002	0.27	0.38	6.5	2	1.5	335	0.54	<0.05	9.4	0.205	0.64



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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12144532**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
						Zr	
						0.5	
M666501		8.8	38	1.7	8.4	14	87.7
M666502		6.8	8	0.6	3.2	<2	11.1
M666503		9.1	15	1.1	5.3	3	29.9
M666504		5.4	33	1.8	8.3	<2	90.7
M666505		8.7	10	1.0	3.4	<2	19.5
M666506		9.8	8	1.0	2.8	2	10.7
M666507		0.5	2	0.1	0.8	10	<0.5
M666508		8.3	10	1.0	2.7	24	9.0
M666509		8.3	81	2.6	12.0	17	87.5
M666510		8.2	179	24.7	15.1	37	174.5
M666511		6.7	20	2.6	6.5	<2	60.0
M666512		6.2	7	0.3	1.9	3	8.7
M666513		12.9	24	0.6	5.4	33	21.4
M666514		10.4	53	0.8	11.4	62	73.7
M666515		9.2	36	0.4	8.6	22	38.4
M666516		10.4	36	0.6	8.7	31	48.2
M666517		10.3	36	0.6	8.8	32	49.7
M666518		13.6	37	0.6	8.4	42	36.5
M666519		10.7	41	1.1	9.6	43	47.8
M666520		9.0	39	1.1	10.1	29	43.2
M666521		7.9	51	1.9	12.4	42	61.0
M666522		10.4	49	3.7	11.2	51	65.2
M666523		9.6	61	4.0	12.5	55	67.9
M666524		6.7	46	1.0	10.9	42	50.8
M666525		7.0	42	0.9	10.3	39	46.7
M666526		6.3	41	1.3	9.6	39	43.2
M666527		6.6	51	0.7	11.6	47	61.8
M666528		6.8	40	0.8	9.4	31	49.9
M666529		6.7	46	0.7	10.5	49	52.8
M666530		7.7	170	33.6	13.6	32	156.5
M666531		9.5	36	0.5	8.7	35	40.7
M666532		10.5	27	0.4	6.9	39	29.9
M666533		1.4	2	0.1	0.8	7	<0.5
M666534		12.2	33	0.5	7.4	51	33.7
M666535		8.7	42	0.6	9.6	48	44.3
M666536		6.3	69	0.9	15.1	136	76.3



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**CERTIFICATE OF ANALYSIS WH12144532**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12140451**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 027  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

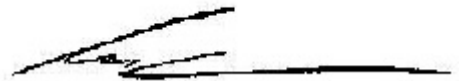
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140451**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666387		12.10	<0.01	0.07	3.75	82	150	0.92	0.17	10.95	0.03	74.4	7.9	37	7.63	17.0
M666388		11.22	<0.01	0.08	4.68	14	180	1.11	0.21	10.05	<0.02	74.9	8.9	44	9.99	19.9
M666389		11.52	<0.01	0.12	6.42	17.9	270	1.70	0.30	5.73	0.06	94.9	12.2	62	14.50	32.1
M666390		4.95	<0.01	0.02	0.09	<5	20	0.05	0.06	20.8	0.05	1.48	1.3	2	0.31	2.1
M666391		5.80	<0.01	0.06	3.53	13	160	1.14	0.17	11.85	0.03	72.0	8.6	35	6.44	12.0
M666392		11.43	<0.01	0.06	6.41	15.7	270	1.84	0.32	4.71	0.05	81.4	12.0	60	17.45	29.7
M666393		12.04	<0.01	0.07	3.91	26	160	0.98	0.18	13.10	0.05	71.8	8.4	34	11.65	18.4
M666394		12.08	<0.01	0.07	4.06	29	170	0.85	0.19	17.15	0.04	67.2	7.4	37	13.75	17.2
M666395		12.08	<0.01	0.06	2.99	22	140	0.58	0.12	19.25	0.05	63.7	5.4	27	8.93	12.2
M666396		0.23	0.35	0.29	5.83	582	450	0.58	0.26	0.45	0.17	141.5	2.7	220	3.41	29.3
M666397		11.84	<0.01	0.07	3.47	43	150	0.66	0.14	16.55	0.04	54.5	6.2	30	11.70	14.0
M666398		10.92	<0.01	0.05	2.90	8	130	0.54	0.12	25.6	0.03	36.2	5.3	21	13.80	12.0
M666399		<0.02	<0.01	0.05	2.73	5	130	0.54	0.11	25.8	0.03	34.1	5.1	21	12.95	11.0
M666400		10.67	<0.01	0.08	3.75	12	160	0.88	0.15	21.4	0.11	40.2	6.2	28	14.15	14.3
M666701		6.38	<0.01	0.12	9.21	18.8	340	2.31	0.41	1.74	0.02	86.0	15.5	64	42.1	33.9
M666702		11.32	<0.01	0.10	8.90	22.1	410	2.46	0.40	1.29	0.08	104.0	14.2	64	38.1	34.8
M666703		11.12	<0.01	0.20	8.45	24.8	290	2.41	0.42	2.91	0.04	88.1	16.6	62	36.8	38.2
M666704		11.32	<0.01	0.12	7.96	11.2	650	2.04	0.35	6.18	0.04	73.8	11.4	51	35.2	22.9
M666705		10.67	<0.01	0.12	5.26	14	290	1.28	0.24	10.70	0.08	49.7	14.1	33	25.8	27.1
M666706		10.99	<0.01	0.08	9.29	16.1	370	2.63	0.40	1.98	0.02	79.1	10.2	70	57.5	30.0
M666707		10.79	<0.01	0.08	8.84	12.6	370	2.65	0.34	1.99	<0.02	82.7	11.0	64	45.8	35.8
M666708		5.58	<0.01	0.07	8.58	15.3	360	2.68	0.36	2.19	0.02	89.2	11.9	61	46.4	33.7
M666709		7.30	<0.01	0.10	8.56	30.3	400	3.00	0.38	1.33	0.02	62.5	10.3	67	42.2	78.3
M666710		8.54	<0.01	0.14	5.92	140	260	1.48	0.25	12.20	0.07	55.2	13.4	37	22.1	16.7
M666711		10.40	<0.01	0.09	4.06	13	660	1.00	0.16	19.60	0.05	40.2	8.1	24	15.65	14.6
M666712		4.93	<0.01	<0.01	0.09	<5	20	0.06	0.02	21.8	0.05	1.41	1.3	<1	0.27	1.2
M666713		11.29	<0.01	0.13	5.02	27	310	1.31	0.22	16.90	0.06	47.5	10.1	32	19.70	23.0
M666714		10.87	<0.01	0.10	4.03	22	210	1.05	0.16	18.85	0.06	38.5	7.2	25	15.75	9.4
M666715		11.30	<0.01	0.09	3.91	23	160	1.09	0.13	19.80	0.06	36.6	5.7	23	16.75	45.7
M666716		11.29	<0.01	0.09	3.77	12	160	0.96	0.15	20.6	0.06	36.0	5.9	23	17.60	17.5
M666717		11.13	<0.01	0.11	4.51	24	200	1.29	0.17	18.20	0.06	44.2	7.5	27	20.3	10.4
M666718		11.69	<0.01	0.05	3.77	35	210	1.42	0.15	17.10	0.05	38.9	6.3	25	14.95	5.8
M666719		6.17	0.01	0.04	2.78	138	350	1.06	0.12	16.70	0.07	29.6	9.4	20	7.78	7.1
M666720		6.03	0.01	0.04	3.75	101	310	1.47	0.16	13.90	0.10	35.3	8.2	24	11.95	8.4
M666721		0.23	0.42	0.41	6.49	613	180	0.74	0.34	0.69	0.35	135.0	4.3	222	3.60	9.1
M666722		10.29	0.01	0.03	7.38	152.0	320	3.33	0.33	5.31	0.06	75.1	16.8	57	29.6	31.7





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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140451**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	
M666387		3.03	9.82	0.12	2.0	0.11	0.034	1.80	36.4	9.6	3.10	722	0.40	0.03	7.1	17.8
M666388		3.30	11.95	0.14	2.3	0.22	0.049	2.36	36.9	11.3	4.11	754	0.32	0.03	8.1	21.3
M666389		3.29	16.90	0.19	3.2	0.37	0.058	3.20	47.0	17.9	1.09	212	0.47	0.04	11.7	31.4
M666390		0.46	0.36	0.09	<0.1	<0.01	<0.005	0.04	0.7	1.3	12.75	205	0.12	0.01	0.3	3.7
M666391		2.44	9.63	0.30	2.0	0.12	0.036	1.71	33.1	9.4	1.70	368	0.31	0.02	7.5	17.6
M666392		2.20	18.00	0.15	3.2	0.14	0.060	3.37	40.7	16.7	1.77	221	0.39	0.04	12.3	28.9
M666393		2.05	10.00	0.13	2.2	0.13	0.035	1.92	35.1	10.8	1.37	418	0.36	0.03	7.2	18.7
M666394		2.31	9.88	0.13	2.1	0.20	0.030	2.05	33.5	10.7	0.83	174	0.30	0.03	7.0	17.5
M666395		1.47	7.21	0.11	1.6	0.29	0.023	1.48	31.4	8.2	0.64	140	0.28	0.02	5.2	12.5
M666396		6.21	18.20	0.23	3.7	9.0	0.041	1.26	68.6	17.3	0.11	34	6.35	0.36	9.0	14.8
M666397		1.66	8.41	0.11	1.6	0.28	0.025	1.71	28.3	8.9	0.86	205	0.35	0.02	5.5	13.7
M666398		1.30	7.05	0.09	1.0	0.09	0.021	1.44	18.5	7.9	1.27	277	0.25	0.02	3.9	12.7
M666399		1.24	6.75	0.09	1.0	0.09	0.021	1.37	17.9	7.3	1.23	273	0.23	0.02	3.7	12.3
M666400		2.17	9.03	0.08	1.2	0.15	0.027	1.88	21.2	6.9	1.60	474	0.72	0.03	4.9	13.7
M666701		3.51	23.5	0.19	2.9	0.11	0.063	4.67	42.0	22.6	1.22	269	0.39	0.05	11.9	32.6
M666702		2.90	22.9	0.22	2.8	0.21	0.060	4.45	53.7	21.5	1.06	293	0.52	0.04	11.6	32.9
M666703		3.43	21.8	0.23	2.8	0.21	0.064	4.20	43.7	23.9	1.33	502	1.14	0.04	11.2	37.5
M666704		3.53	20.5	0.21	3.1	0.06	0.064	4.17	40.4	20.9	2.09	526	0.29	0.05	10.6	25.7
M666705		3.20	13.75	0.13	2.1	0.04	0.057	2.76	26.5	16.0	3.50	582	0.30	0.04	7.5	20.3
M666706		3.45	25.6	0.20	3.8	0.02	0.086	5.10	40.6	29.1	1.46	378	0.22	0.05	14.9	30.5
M666707		3.57	24.5	0.19	3.7	0.04	0.086	4.73	42.0	29.1	1.42	411	0.31	0.06	12.9	27.0
M666708		3.37	24.1	0.20	3.5	0.04	0.089	4.58	46.6	24.0	1.43	393	0.33	0.06	12.6	27.4
M666709		3.25	25.5	0.18	3.7	0.07	0.084	4.80	30.6	22.3	1.13	231	0.37	0.06	13.1	26.1
M666710		3.07	15.05	0.15	2.4	0.19	0.052	3.08	30.5	11.4	3.14	461	0.39	0.04	8.3	22.9
M666711		2.16	10.30	0.08	1.7	0.10	0.036	2.08	21.7	8.3	2.91	537	0.24	0.03	5.9	13.8
M666712		0.48	0.45	0.36	<0.1	<0.01	<0.005	0.04	0.7	2.5	13.40	212	0.06	0.01	0.4	1.1
M666713		2.46	13.20	0.12	2.1	0.11	0.043	2.63	25.9	11.2	3.05	428	0.42	0.03	7.3	18.5
M666714		1.93	10.30	0.07	1.8	0.08	0.035	2.09	21.1	8.8	3.46	404	0.39	0.03	5.6	12.6
M666715		1.82	9.99	0.08	1.8	0.09	0.031	2.03	20.2	9.1	3.57	411	0.39	0.03	5.7	11.2
M666716		1.68	9.58	0.07	1.7	0.09	0.033	1.98	19.5	9.5	2.88	357	0.38	0.03	5.6	11.3
M666717		1.95	11.65	0.08	1.9	0.12	0.040	2.39	24.3	12.7	3.41	445	0.32	0.03	6.4	14.0
M666718		1.90	10.25	0.10	1.9	0.16	0.038	1.92	20.4	8.9	3.82	425	0.54	0.03	6.0	10.0
M666719		3.18	7.65	0.06	1.4	0.39	0.028	1.39	14.7	8.2	6.06	621	0.87	0.02	4.6	12.8
M666720		2.58	10.60	0.07	1.8	0.26	0.035	1.89	19.1	9.4	6.06	612	0.55	0.03	5.9	12.7
M666721		6.36	23.8	0.24	4.5	9.9	0.054	1.38	59.9	17.5	0.13	16	5.53	0.41	10.7	15.2
M666722		2.58	23.4	0.25	3.4	0.43	0.068	3.86	37.3	23.6	1.45	315	0.70	0.05	12.4	34.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 8- JUL- 2012  
 Account: RCMP

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140451**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666387		620	22.7	76.3	<0.002	1.00	0.63	6.9	1	1.3	139.5	0.50	<0.05	7.6	0.232	0.79
M666388		220	26.0	99.7	<0.002	1.19	0.61	8.0	1	1.5	80.4	0.56	<0.05	8.9	0.229	0.91
M666389		690	40.6	138.0	<0.002	2.41	0.95	11.7	2	2.2	142.5	0.80	0.06	12.6	0.325	1.73
M666390		190	2.3	2.0	<0.002	0.01	0.05	0.3	1	<0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02
M666391		820	17.2	74.3	<0.002	0.85	0.54	8.6	2	1.3	292	0.53	<0.05	8.6	0.218	1.03
M666392		610	22.5	126.0	<0.002	1.08	0.81	10.6	1	2.3	107.5	0.85	0.05	11.6	0.321	1.29
M666393		780	17.0	84.7	<0.002	1.38	0.58	6.8	1	1.3	283	0.51	<0.05	8.1	0.210	1.09
M666394		440	13.3	84.9	<0.002	1.69	0.43	6.9	1	1.2	336	0.52	<0.05	8.2	0.220	1.70
M666395		140	8.0	62.2	<0.002	1.13	0.32	5.0	1	0.9	465	0.39	<0.05	6.1	0.175	1.29
M666396		850	14.6	42.9	0.003	2.81	111.5	14.5	2	2.8	492	0.67	0.14	8.5	0.494	6.97
M666397		690	9.6	70.3	<0.002	1.15	0.39	5.4	1	1.1	384	0.38	<0.05	6.3	0.177	1.24
M666398		500	8.6	57.2	<0.002	0.80	0.20	5.4	1	0.8	594	0.26	0.06	4.4	0.114	0.53
M666399		510	8.0	53.7	<0.002	0.75	0.17	5.0	1	0.8	591	0.25	0.05	4.2	0.109	0.51
M666400		350	29.2	65.1	<0.002	1.13	0.21	6.5	1	0.8	398	0.35	<0.05	6.9	0.145	1.38
M666701		340	26.8	150.5	<0.002	1.59	0.36	15.2	1	2.4	81.2	0.94	0.07	15.0	0.371	1.59
M666702		300	24.0	163.0	<0.002	1.00	0.45	15.1	1	2.3	88.4	0.93	0.06	16.9	0.369	1.91
M666703		390	24.5	135.5	<0.002	0.71	0.76	14.6	1	2.2	96.0	0.87	0.07	14.2	0.345	1.98
M666704		720	12.1	158.0	<0.002	0.49	0.37	15.1	1	2.4	192.0	0.78	0.07	14.0	0.342	1.05
M666705		920	11.9	108.5	<0.002	0.21	0.47	10.8	1	1.6	199.5	0.51	0.06	9.1	0.235	0.92
M666706		1400	8.8	179.0	<0.002	0.07	0.33	19.4	1	3.3	93.0	1.78	0.13	14.4	0.460	1.13
M666707		1180	10.6	181.5	<0.002	0.11	0.40	18.9	1	3.0	87.4	0.93	0.10	14.7	0.414	1.12
M666708		1280	10.8	186.5	<0.002	0.12	0.44	19.4	1	3.0	90.0	0.86	0.10	15.2	0.393	1.14
M666709		900	13.6	157.5	<0.002	0.31	0.46	17.4	1	3.1	75.8	0.91	0.09	12.3	0.418	1.45
M666710		940	15.6	115.5	<0.002	0.54	0.53	10.7	1	1.9	265	0.56	0.05	10.3	0.261	1.66
M666711		1080	9.1	78.9	<0.002	0.22	0.31	7.7	1	1.2	353	0.37	<0.05	6.9	0.173	0.79
M666712		200	1.1	1.6	<0.002	0.01	<0.05	0.3	<1	<0.2	41.0	<0.05	<0.05	<0.2	<0.005	<0.02
M666713		730	10.6	93.7	<0.002	0.30	0.36	9.7	1	1.5	388	0.48	<0.05	9.1	0.223	1.15
M666714		630	7.7	77.5	<0.002	0.19	0.25	7.5	1	1.2	477	0.38	<0.05	7.0	0.176	0.76
M666715		820	5.5	74.0	<0.002	0.15	0.21	6.8	1	1.2	515	0.38	<0.05	6.7	0.169	0.71
M666716		720	6.4	71.6	<0.002	0.16	0.22	6.9	1	1.2	510	0.52	<0.05	6.6	0.163	0.63
M666717		1000	8.0	87.6	<0.002	0.20	0.29	8.4	1	1.5	434	0.44	<0.05	7.9	0.198	0.84
M666718		560	6.4	73.2	<0.002	0.18	0.22	8.2	2	1.3	422	0.43	0.05	7.2	0.166	0.76
M666719		710	6.8	50.4	0.002	0.29	0.23	6.2	1	0.9	184.0	0.32	<0.05	5.4	0.124	1.58
M666720		580	5.5	67.8	0.002	0.20	0.23	7.9	1	1.3	164.5	0.42	0.05	6.9	0.164	1.23
M666721		960	14.2	48.5	0.003	3.19	97.4	18.8	2	2.4	528	0.77	0.15	10.3	0.518	8.09
M666722		570	16.9	147.0	0.002	1.36	0.62	17.4	2	2.5	111.0	0.90	0.09	14.2	0.357	2.16

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 8- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140451**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
						Zr	
						0.5	
M666387		2.7	48	0.9	17.4	19	78.6
M666388		2.9	56	1.1	17.6	25	83.6
M666389		4.1	81	1.7	24.2	65	115.5
M666390		0.5	3	0.1	0.9	12	0.5
M666391		2.7	45	1.1	23.4	31	75.4
M666392		2.8	82	1.5	20.1	37	116.5
M666393		3.5	47	0.9	19.1	32	85.7
M666394		3.1	47	0.9	14.6	54	77.3
M666395		2.7	34	0.7	11.8	44	56.2
M666396		6.9	159	21.2	13.5	40	152.5
M666397		3.1	41	0.7	12.4	42	59.8
M666398		3.0	34	0.5	9.8	40	39.1
M666399		2.8	32	0.5	9.5	47	35.4
M666400		3.5	37	0.6	12.2	112	44.9
M666701		3.6	101	1.6	19.3	54	102.5
M666702		3.2	93	1.7	19.8	78	98.9
M666703		3.3	91	1.8	20.3	55	98.3
M666704		4.7	105	1.8	20.9	35	97.8
M666705		3.8	75	1.2	18.8	30	76.0
M666706		3.6	142	2.1	24.8	43	128.0
M666707		3.3	123	1.8	25.0	38	124.0
M666708		3.3	120	1.7	26.2	39	118.0
M666709		3.3	130	2.0	20.8	35	125.0
M666710		6.6	79	3.3	19.4	28	84.7
M666711		5.4	53	1.2	15.0	18	61.1
M666712		0.8	3	0.1	0.8	13	0.5
M666713		7.7	67	2.2	16.0	22	75.1
M666714		7.5	55	1.1	13.4	19	61.7
M666715		7.7	54	1.9	12.8	18	63.4
M666716		7.5	53	0.8	13.0	17	60.4
M666717		6.1	62	1.8	15.5	20	68.3
M666718		6.8	55	2.6	15.1	18	60.7
M666719		12.3	41	2.9	12.5	23	47.6
M666720		6.4	52	3.3	13.8	24	61.8
M666721		7.9	174	35.2	16.9	50	165.5
M666722		3.6	109	8.7	25.7	25	109.5



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140451**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12144261**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 028  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 22- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144261**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666723		11.66	0.01	0.08	8.14	149.5	390	3.11	0.37	2.98	0.03	72.5	25.9	69	30.4	54.8
M666724		10.25	<0.01	<0.01	8.82	54.5	760	3.00	0.34	1.78	0.03	89.8	13.1	70	30.6	34.6
M666725		10.26	<0.01	0.01	8.45	116.5	410	3.25	0.35	1.76	0.21	77.4	19.4	72	25.5	35.8
M666726		7.95	<0.01	0.04	8.21	192.0	380	3.16	0.34	1.43	0.42	71.6	22.3	73	26.8	39.1
M666727		10.44	0.02	0.04	1.52	145	330	0.51	0.05	17.40	0.17	20.2	4.7	14	3.34	13.6
M666728		6.96	<0.01	0.01	0.08	<5	20	0.08	0.08	21.7	0.08	1.36	1.2	3	0.20	1.6
M666729		5.79	0.01	0.07	1.27	152	720	0.48	0.05	19.70	1.27	18.50	5.5	12	3.52	14.3
M666730		8.15	0.01	0.03	0.40	38	80	0.20	0.02	21.1	0.06	7.09	2.3	6	0.58	4.9
M666731		9.76	0.01	0.01	0.53	21	50	0.25	0.02	21.7	<0.02	6.97	1.7	6	0.67	2.9
M666732		<0.02	<0.01	0.01	0.51	24	50	0.24	0.02	21.2	0.02	6.92	1.7	6	0.67	2.8
M666733		10.56	0.02	0.01	0.52	32	60	0.23	0.02	20.1	0.26	7.90	1.7	7	0.93	3.8
M666734		9.67	0.04	0.01	0.82	26	80	0.36	0.03	21.4	0.08	12.60	1.9	6	1.59	5.3
M666735		5.61	0.07	0.02	0.56	35	50	0.25	0.02	21.3	0.04	10.80	1.5	4	1.14	4.3
M666736		7.18	0.14	0.02	1.01	35	150	0.37	0.04	19.30	0.50	15.90	1.8	7	2.05	4.7
M666737		0.20	0.35	0.34	6.27	608	850	0.64	0.28	0.50	0.18	142.5	3.1	228	3.39	30.0
M666738		4.95	<0.01	0.12	1.60	52	90	0.65	0.04	17.55	0.04	21.3	3.4	16	4.22	8.5
M666739		2.93	0.01	0.13	3.35	107	110	1.20	0.08	13.40	0.07	36.8	5.2	32	8.84	16.2
M666740		4.68	0.01	0.10	4.16	207	1280	1.35	0.10	13.45	0.10	39.9	6.2	38	10.75	22.1
M666741		1.99	0.01	0.08	4.13	246	390	1.27	0.10	12.90	0.09	38.6	6.2	40	10.05	23.2
M666742		4.11	0.01	0.18	1.15	237	80	0.46	0.04	18.85	0.14	14.45	2.7	15	3.39	9.4
M666743		5.79	0.01	0.15	0.94	47	50	0.44	0.03	20.8	0.33	11.75	2.3	12	2.72	7.7
M666744		7.22	0.01	0.06	0.64	34	30	0.32	0.02	20.8	0.12	9.01	1.7	8	1.46	3.8
M666745		7.46	0.01	0.11	1.56	50	110	0.60	0.04	18.60	0.13	21.2	3.0	15	4.58	9.3
M666746		7.53	0.01	0.31	1.42	55	60	0.51	0.04	18.75	0.22	20.5	3.0	19	4.27	11.0
M666747		4.90	<0.01	0.01	0.07	<5	20	0.06	0.02	22.0	0.07	1.38	1.4	2	0.23	1.1
M666748		7.64	0.01	0.05	0.65	25	50	0.29	0.02	21.3	0.11	10.70	1.7	9	1.85	3.9
M666749		5.99	<0.01	0.06	1.48	21	90	0.53	0.04	18.70	0.08	21.2	2.9	18	7.72	9.3
M666750		3.34	<0.01	0.09	3.00	23	200	0.99	0.07	14.45	0.06	33.5	4.3	28	15.95	14.2
M666951		6.00	<0.01	0.03	1.61	7	120	0.46	0.03	28.3	0.13	19.05	2.3	13	5.61	6.4
M666952		7.32	<0.01	0.03	1.85	10	160	0.60	0.05	27.7	0.17	24.3	4.0	18	8.09	9.7
M666953		7.54	<0.01	0.09	3.54	19	180	0.98	0.08	20.1	0.10	42.3	5.7	32	14.20	16.4
M666954		0.20	0.43	0.39	6.50	613	1570	0.56	0.24	0.73	0.18	142.0	4.0	234	3.50	15.2
M666955		7.64	0.01	0.09	4.05	19	310	1.08	0.09	13.30	0.09	47.6	6.8	40	18.20	17.6
M666956		7.08	0.01	0.07	3.51	15	300	0.86	0.08	12.45	0.07	44.6	5.0	33	17.45	15.4
M666957		8.02	<0.01	0.07	2.01	15	330	0.55	0.05	28.6	0.06	25.5	3.6	17	11.75	8.3
M666958		7.63	<0.01	0.05	2.63	19	180	0.84	0.06	25.9	0.04	34.9	4.6	23	14.00	9.2



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144261**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
M666723		2.81	23.5	0.16	3.6	1.14	0.077	4.42	36.3	26.5	1.81	385	1.29	0.05	13.2	42.7
M666724		4.06	24.9	0.20	3.5	0.77	0.077	4.50	47.1	27.3	1.47	218	0.45	0.04	13.3	42.9
M666725		4.88	22.9	0.20	3.3	1.07	0.079	4.28	39.5	29.2	1.46	119	1.28	0.04	12.5	38.5
M666726		6.95	23.5	0.21	3.6	1.77	0.079	4.33	36.1	33.8	1.30	76	0.66	0.04	13.2	48.3
M666727		2.01	3.95	0.07	0.9	0.83	0.015	0.75	10.4	6.3	9.96	615	0.33	0.02	2.5	9.3
M666728		0.51	0.38	0.21	<0.1	<0.01	0.005	0.03	0.7	1.1	13.10	215	0.68	0.01	0.3	2.1
M666729		1.93	3.47	0.05	0.6	1.08	0.012	0.62	10.5	6.4	11.10	705	0.19	0.02	2.2	13.0
M666730		0.69	1.10	0.09	0.3	0.36	<0.005	0.19	3.6	2.8	12.50	525	0.20	0.02	0.8	3.5
M666731		0.60	1.45	0.10	0.4	0.26	0.005	0.26	3.8	3.2	12.00	511	0.16	0.02	0.9	2.2
M666732		0.58	1.41	0.10	0.4	0.29	0.005	0.25	3.8	3.0	11.70	498	0.16	0.02	0.9	2.2
M666733		0.55	1.42	0.12	0.4	0.42	0.006	0.25	4.1	3.0	11.90	483	0.15	0.02	0.9	2.1
M666734		0.53	2.09	0.15	0.6	0.46	0.008	0.39	6.6	4.3	12.55	445	0.26	0.01	1.4	2.7
M666735		0.74	1.44	0.11	0.4	0.80	0.006	0.27	5.5	2.9	11.85	540	0.21	0.01	0.9	2.1
M666736		0.64	2.59	0.12	0.8	1.69	0.012	0.48	8.9	5.3	11.60	585	0.27	0.01	1.8	2.6
M666737		6.92	20.5	0.22	4.4	9.9	0.052	1.37	69.5	19.6	0.14	37	6.55	0.39	10.1	16.6
M666738		0.90	4.02	0.08	1.4	0.30	0.012	0.82	11.5	8.5	10.25	167	1.17	0.03	2.9	6.6
M666739		1.44	8.23	0.09	2.5	0.50	0.026	1.72	18.7	16.7	7.45	180	1.61	0.03	5.6	11.6
M666740		1.47	9.94	0.10	2.5	1.07	0.030	2.11	20.6	19.3	7.42	181	1.12	0.04	6.7	13.5
M666741		1.47	9.90	0.10	2.5	1.21	0.031	2.10	19.8	17.7	7.12	182	1.08	0.03	6.7	14.2
M666742		0.60	2.82	0.12	0.6	0.60	0.011	0.58	8.3	6.1	11.00	183	0.70	0.02	2.0	5.5
M666743		0.62	2.35	0.14	0.5	0.70	0.008	0.48	7.0	5.2	12.00	197	0.88	0.02	1.6	5.1
M666744		0.37	1.62	0.22	0.4	0.68	0.006	0.32	5.4	3.3	11.80	163	0.60	0.02	1.1	2.8
M666745		0.79	3.71	0.16	1.2	0.67	0.012	0.81	11.3	8.0	9.93	154	1.02	0.02	2.7	6.1
M666746		0.69	3.42	0.16	1.0	0.91	0.014	0.73	11.1	6.5	10.45	207	1.15	0.02	2.5	6.2
M666747		0.49	0.37	0.33	<0.1	<0.01	0.006	0.03	0.7	1.0	13.10	216	0.14	<0.01	0.3	1.9
M666748		0.35	1.60	0.26	0.4	0.21	0.006	0.32	6.6	2.8	12.25	174	0.76	0.01	1.1	2.5
M666749		0.62	3.66	0.20	0.9	0.15	0.010	0.78	12.0	7.3	10.35	139	0.62	0.02	2.4	5.8
M666750		1.18	7.25	0.13	2.4	0.21	0.023	1.63	17.2	14.3	7.18	190	0.71	0.03	5.0	8.0
M666951		0.65	3.53	0.10	0.9	0.07	0.012	0.72	10.7	5.7	1.62	155	0.21	0.15	2.2	3.2
M666952		0.83	4.47	0.12	1.3	0.10	0.015	0.98	13.6	7.5	2.26	158	0.27	0.04	3.1	6.8
M666953		1.30	8.09	0.12	2.1	0.18	0.026	1.89	21.6	12.7	2.56	176	0.73	0.02	5.5	12.9
M666954		6.53	20.9	0.25	4.4	10.3	0.050	1.40	67.8	17.5	0.13	15	4.96	0.42	10.0	13.3
M666955		1.61	9.73	0.11	2.7	0.16	0.031	2.21	24.0	14.6	4.06	219	0.82	0.03	6.9	16.5
M666956		1.51	8.19	0.11	2.8	0.15	0.024	1.93	22.4	14.0	4.27	246	0.79	0.03	5.9	12.3
M666957		0.75	4.54	0.09	0.8	0.01	0.013	1.08	13.8	8.0	1.39	167	0.50	0.02	2.8	6.7
M666958		1.08	6.10	0.11	1.0	0.11	0.019	1.42	18.0	11.1	1.59	182	0.47	0.02	3.6	10.0

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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144261**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666723		870	20.7	133.0	0.003	1.44	0.85	15.3	2	2.7	88.4	0.94	0.12	12.4	0.410	3.05
M666724		1140	18.6	171.5	<0.002	3.27	0.70	18.4	2	2.8	92.4	0.94	0.22	15.6	0.454	2.03
M666725		1780	21.9	139.5	<0.002	4.55	0.77	17.0	2	2.7	89.0	0.91	0.20	13.8	0.440	2.90
M666726		1750	25.7	136.5	<0.002	7.04	2.06	16.9	2	2.8	95.8	0.95	0.20	13.1	0.455	5.15
M666727		1650	8.7	28.9	<0.002	1.72	1.20	2.9	1	0.5	139.0	0.17	0.05	3.1	0.078	2.62
M666728		240	1.2	1.7	<0.002	0.02	0.15	0.3	1	<0.2	45.3	<0.05	<0.05	<0.2	<0.005	0.03
M666729		1090	15.5	24.4	<0.002	1.42	1.28	2.1	1	0.4	140.5	0.14	0.05	2.3	0.060	4.48
M666730		490	4.3	6.9	<0.002	0.21	0.43	0.7	1	0.2	72.5	0.05	<0.05	0.9	0.019	1.41
M666731		380	2.4	9.0	<0.002	0.16	0.33	0.8	1	0.2	74.7	0.06	<0.05	1.1	0.024	1.39
M666732		370	2.3	8.8	<0.002	0.16	0.31	0.8	1	0.2	72.1	0.06	<0.05	1.1	0.023	1.30
M666733		410	2.1	9.1	<0.002	0.18	0.36	0.9	1	0.2	80.1	0.06	<0.05	1.1	0.024	1.88
M666734		380	2.9	14.2	<0.002	0.23	0.53	1.3	1	0.3	124.5	0.10	<0.05	1.8	0.039	2.17
M666735		440	3.6	9.8	<0.002	0.41	0.45	1.0	1	0.2	114.5	0.06	<0.05	1.1	0.025	1.54
M666736		550	4.7	16.9	<0.002	0.44	1.02	1.6	1	0.4	154.0	0.13	<0.05	2.2	0.048	2.89
M666737		920	17.0	48.6	0.003	3.11	119.5	15.8	2	3.1	521	0.74	0.16	9.8	0.554	8.20
M666738		280	11.6	30.9	0.002	0.61	0.34	2.6	2	0.5	111.5	0.21	<0.05	3.8	0.080	1.37
M666739		550	13.3	58.3	0.002	0.88	0.34	5.2	2	1.1	156.5	0.41	<0.05	7.3	0.155	1.79
M666740		550	15.5	69.3	0.002	1.04	0.58	6.2	2	1.3	148.5	0.49	<0.05	8.6	0.189	4.16
M666741		550	15.5	66.6	0.002	1.03	0.61	6.1	2	1.3	139.0	0.48	<0.05	8.3	0.191	4.33
M666742		280	9.2	22.0	0.002	0.53	0.32	1.9	1	0.4	106.5	0.14	<0.05	2.4	0.053	1.61
M666743		180	10.2	17.7	0.002	0.49	0.32	1.6	1	0.4	111.5	0.11	<0.05	1.8	0.041	1.60
M666744		130	7.7	11.2	0.002	0.32	0.64	1.1	1	0.3	121.5	0.07	<0.05	1.2	0.028	1.73
M666745		350	9.0	30.0	0.002	0.59	0.26	2.5	2	0.5	138.0	0.19	<0.05	3.2	0.070	1.40
M666746		470	8.4	26.4	0.002	0.50	0.30	2.3	2	0.5	127.5	0.18	<0.05	3.0	0.065	1.23
M666747		200	1.1	1.7	<0.002	0.01	0.06	0.3	1	<0.2	45.3	<0.05	<0.05	<0.2	<0.005	<0.02
M666748		130	4.4	11.1	0.002	0.32	0.16	1.1	1	0.2	93.6	0.07	<0.05	1.2	0.027	0.65
M666749		350	6.3	28.4	0.002	0.49	0.17	2.4	1	0.5	105.0	0.17	<0.05	2.9	0.065	0.56
M666750		440	9.5	53.8	0.002	0.39	0.22	4.6	2	1.0	168.0	0.36	<0.05	6.3	0.140	0.62
M666951		210	4.7	26.1	<0.002	0.17	0.13	2.6	1	0.5	542	0.15	<0.05	2.4	0.065	0.21
M666952		330	5.8	35.5	<0.002	0.35	0.16	3.1	2	0.6	422	0.22	<0.05	3.7	0.082	0.30
M666953		530	8.2	60.8	0.002	0.58	0.22	5.2	2	1.1	307	0.40	<0.05	6.6	0.159	0.51
M666954		960	13.9	50.8	0.003	3.27	118.5	16.9	2	2.3	532	0.74	0.15	9.0	0.548	8.26
M666955		590	11.2	74.8	0.002	0.66	0.34	6.3	2	1.3	206	0.50	<0.05	8.3	0.191	0.54
M666956		600	8.5	65.2	0.002	0.45	0.27	5.4	2	1.1	242	0.43	<0.05	7.3	0.165	0.51
M666957		280	6.1	33.8	0.002	0.26	0.16	3.1	1	0.5	820	0.19	<0.05	3.3	0.076	0.38
M666958		320	7.8	45.3	<0.002	0.45	0.20	4.1	1	0.7	881	0.25	<0.05	4.4	0.098	0.39

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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144261**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
	Zr					0.5	
M666723		3.9	120	6.0	22.5	21	124.0
M666724		2.6	119	5.3	26.8	25	120.5
M666725		2.6	125	5.6	26.8	107	115.0
M666726		3.2	130	4.5	24.6	220	122.0
M666727		4.7	20	1.3	11.4	54	31.6
M666728		0.6	3	0.1	0.8	14	0.6
M666729		5.3	14	0.8	8.1	341	23.3
M666730		4.3	6	0.3	4.3	9	10.4
M666731		3.9	7	0.5	3.6	2	15.2
M666732		3.9	7	0.4	3.6	2	15.0
M666733		4.5	10	0.4	3.6	82	13.3
M666734		7.7	15	0.8	5.3	15	23.4
M666735		6.2	10	0.5	4.6	5	13.3
M666736		10.4	15	0.9	6.6	130	28.5
M666737		7.9	172	22.6	15.5	41	173.5
M666738		13.7	28	1.7	7.5	5	49.8
M666739		10.3	53	3.7	12.9	21	87.0
M666740		15.0	58	4.9	13.3	28	90.5
M666741		14.3	58	4.8	12.8	25	88.8
M666742		13.2	26	1.4	4.8	21	21.3
M666743		17.7	24	1.3	4.1	65	17.0
M666744		13.8	13	0.8	3.3	18	13.1
M666745		13.2	25	1.7	7.1	21	42.7
M666746		14.7	40	1.5	7.0	27	37.0
M666747		0.5	2	0.1	0.8	16	<0.5
M666748		13.7	16	0.8	3.7	18	13.7
M666749		12.1	25	0.8	6.9	14	31.0
M666750		8.8	52	1.8	11.4	13	85.8
M666951		8.1	22	0.8	6.3	30	32.4
M666952		6.5	23	0.6	8.6	22	41.5
M666953		10.8	57	0.8	12.8	49	71.9
M666954		7.6	171	32.8	15.2	38	170.0
M666955		6.9	64	0.9	14.9	32	92.8
M666956		5.7	51	0.7	13.4	25	94.8
M666957		15.2	32	0.3	6.5	24	28.6
M666958		10.8	37	0.4	8.4	15	34.9



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144261**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12128744**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 030  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 11- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 24- JUN- 2012  
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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12128744**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306451		8.94	1.04	0.19	1.43	566	120	0.60	0.04	20.4	0.05	18.30	3.0	13	3.17	10.5
K306452		7.57	0.62	0.16	3.55	667	320	1.27	0.09	18.90	0.05	40.7	4.9	31	9.48	20.5
K306453		8.16	0.40	0.04	1.14	358	70	0.57	0.04	31.6	0.07	13.60	1.9	11	2.63	7.9
K306454		4.20	0.67	0.04	0.34	506	30	0.19	0.02	32.5	0.07	6.05	1.1	3	0.68	3.7
K306455		2.28	2.00	0.09	1.14	1760	50	0.59	0.03	25.1	0.17	10.95	1.8	10	2.41	5.5
K306456		2.61	7.89	0.15	3.44	6710	150	0.94	0.08	12.85	0.13	40.2	2.9	31	7.59	11.5
K306457		3.49	4.79	3.19	3.02	4290	140	0.95	0.08	12.25	0.29	32.8	3.7	25	6.24	14.8
K306458		0.22	4.28	0.85	2.84	477	720	0.61	0.43	9.25	0.55	40.1	4.7	40	2.41	31.2
K306459		2.38	5.49	0.73	3.23	2300	130	1.35	0.08	12.70	0.16	29.7	5.6	27	8.98	13.5
K306460		4.39	17.40	0.11	5.51	4540	450	1.67	0.13	9.52	0.09	58.4	8.6	45	16.15	19.8
K306461		5.27	6.94	0.07	3.34	1700	90	1.01	0.08	19.15	0.06	35.4	5.4	28	8.56	14.5
K306462		5.60	8.20	0.33	3.50	>10000	100	1.15	0.10	9.39	0.16	35.6	5.9	35	8.71	22.4
K306463		5.46	17.45	2.91	4.37	>10000	110	1.03	0.10	7.97	0.26	51.5	7.1	39	11.20	24.5
K306464		4.72	11.55	1.02	3.53	>10000	350	1.03	0.10	12.45	0.22	37.0	6.0	33	7.46	21.8
K306465		5.63	3.33	0.39	3.05	3580	390	1.03	0.08	20.1	0.10	33.0	3.4	28	7.91	19.6
K306466		9.91	0.01	0.04	3.00	161	200	0.68	0.12	27.3	0.03	34.3	12.5	22	8.49	22.1
K306467		<0.02	<0.01	0.03	2.98	156	180	0.77	0.12	27.2	0.04	33.7	12.3	22	8.33	21.4
K306468		9.91	<0.01	0.07	2.58	102	160	0.66	0.11	28.0	0.03	28.4	10.1	19	7.71	18.8
K306469		9.83	0.01	0.03	2.80	115	130	0.82	0.11	23.2	0.05	33.1	10.0	23	9.60	19.2
K306470		7.10	<0.01	0.03	1.41	104	260	0.53	0.07	32.2	0.05	17.15	5.3	11	4.78	11.6
K306471		7.42	<0.01	0.04	3.28	72	140	0.95	0.15	23.5	0.05	35.3	11.8	24	10.95	24.5
K306472		5.09	0.01	0.05	3.43	252	140	1.01	0.15	22.0	0.04	36.3	12.9	25	11.20	24.5
K306473		6.17	<0.01	0.04	2.39	39	90	0.78	0.09	25.9	0.06	25.6	9.5	17	8.57	18.1
K306474		10.14	<0.01	0.03	3.05	49	100	0.86	0.13	24.4	0.06	31.7	11.9	23	10.75	23.5
K306475		11.23	<0.01	0.03	2.86	50	100	0.80	0.12	26.6	0.05	30.2	10.4	20	9.76	21.9
K306476		8.86	<0.01	0.03	2.51	58	120	0.76	0.12	24.6	0.03	31.2	8.6	18	8.37	17.8
K306477		7.73	0.08	0.07	7.86	1445	240	2.33	0.34	5.05	0.11	84.8	27.3	62	32.6	57.5
K306478		11.46	0.02	0.06	8.25	755	230	2.26	0.38	5.62	0.10	86.0	30.6	64	28.1	60.7
K306479		3.80	0.01	<0.01	7.88	720	220	1.84	0.38	4.50	0.12	78.6	29.2	63	30.4	56.8
K306480		2.57	0.04	0.01	7.96	5940	220	1.82	0.39	5.72	0.11	73.9	28.9	64	34.1	55.8
K306481		0.21	16.05	0.95	1.98	1220	380	0.34	0.60	15.10	0.62	28.5	3.7	35	2.18	60.8
K306482		4.10	<0.01	0.02	7.55	259	220	1.87	0.35	4.83	0.12	73.4	24.9	61	32.0	54.7
K306483		6.98	<0.01	<0.01	0.12	8	20	0.08	0.02	20.9	0.06	1.25	1.3	1	0.64	4.0
K306484		7.16	0.01	0.02	2.81	124	90	0.82	0.13	25.3	0.04	32.8	10.3	21	9.61	21.2
K306512		3.82	<0.01	0.01	3.06	116	100	0.72	0.13	23.9	0.05	33.4	10.7	24	10.20	21.8
K306486		6.96	<0.01	<0.01	0.07	<5	20	0.06	0.04	21.0	0.07	1.39	1.3	<1	0.27	2.2

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12128744**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K306451		1.65	3.53	0.07	1.2	5.4	0.015	0.67	9.9	8.7	7.83	1220	0.94	0.02	2.3	7.5
K306452		1.00	8.84	0.13	2.3	7.15	0.026	1.62	20.2	23.6	2.55	310	0.82	0.02	5.4	11.2
K306453		0.35	2.91	0.14	0.6	2.94	0.014	0.52	8.0	5.8	1.83	390	0.18	0.01	1.6	3.5
K306454		0.26	0.78	0.12	0.2	2.48	0.006	0.15	3.7	2.1	2.32	564	0.11	0.01	0.4	1.4
K306455		0.41	2.81	0.13	0.7	5.63	0.007	0.54	6.3	7.9	1.73	1160	0.28	0.01	1.4	3.5
K306456		1.26	7.91	0.15	2.1	19.5	0.013	1.62	20.2	15.2	3.98	3370	0.42	0.02	4.5	7.3
K306457		1.14	6.97	0.16	0.9	14.2	0.017	1.43	16.1	17.2	1.95	1240	0.88	0.01	3.2	9.8
K306458		1.73	6.02	0.14	1.4	5.16	0.024	0.80	24.9	54.8	4.76	336	9.61	0.02	5.0	30.1
K306459		1.12	8.03	0.13	1.0	12.5	0.018	1.58	15.2	21.2	1.67	740	0.77	0.01	3.6	13.5
K306460		2.23	13.15	0.16	1.8	21.7	0.022	2.72	31.6	29.9	2.47	694	0.69	0.02	6.3	23.0
K306461		1.42	7.82	0.16	1.2	12.2	0.019	1.70	18.0	16.6	2.23	585	0.56	0.02	3.9	13.5
K306462		1.56	8.78	0.11	1.4	30.7	0.023	1.79	18.3	20.0	2.71	772	1.12	0.02	4.7	16.1
K306463		1.56	10.85	0.13	1.4	20.4	0.015	2.19	28.4	23.5	2.10	742	1.36	0.01	5.2	18.9
K306464		1.43	8.78	0.13	2.3	16.1	0.015	1.77	20.9	19.7	3.73	1110	0.80	0.02	5.1	11.9
K306465		0.92	7.89	0.16	1.5	6.12	0.018	1.43	18.1	16.7	2.11	768	0.67	0.02	4.4	7.9
K306466		1.94	7.37	0.13	1.3	1.06	0.029	1.29	19.0	6.5	0.75	726	0.59	0.02	3.7	16.9
K306467		1.95	7.03	0.11	1.3	1.05	0.026	1.31	18.5	6.4	0.75	731	0.56	0.02	3.6	16.7
K306468		1.75	6.19	0.12	1.1	0.66	0.024	1.09	15.2	6.5	0.73	603	0.88	0.02	3.1	13.2
K306469		1.74	6.61	0.11	1.5	1.42	0.021	1.19	16.1	7.9	0.86	456	0.58	0.02	3.9	13.1
K306470		1.10	3.51	0.11	0.6	0.85	0.012	0.59	9.9	4.1	0.83	362	0.73	0.01	1.7	8.1
K306471		2.71	8.07	0.13	1.4	0.6	0.035	1.45	18.1	8.1	1.58	649	0.90	0.02	4.2	18.4
K306472		2.61	8.54	0.12	1.4	0.50	0.033	1.56	19.9	6.8	2.52	812	0.72	0.02	4.2	18.5
K306473		1.86	5.67	0.08	0.9	0.13	0.023	1.05	13.9	5.8	1.78	585	0.49	0.02	2.7	12.6
K306474		1.93	7.48	0.12	1.3	0.13	0.030	1.35	17.5	7.0	1.43	597	0.57	0.02	3.8	17.4
K306475		1.84	6.94	0.12	1.2	0.33	0.026	1.24	16.7	6.9	0.96	570	0.58	0.02	3.4	15.0
K306476		1.77	6.19	0.11	1.1	0.59	0.026	1.09	16.6	6.7	0.75	655	0.25	0.02	3.1	12.7
K306477		4.56	21.1	0.16	3.5	6.3	0.085	3.46	44.9	28.0	1.62	800	0.84	0.04	11.3	43.0
K306478		4.54	22.1	0.21	3.6	5.37	0.083	3.68	48.6	22.3	1.51	773	0.98	0.04	11.2	47.9
K306479		4.33	21.9	0.24	3.6	6.50	0.085	3.64	42.4	17.0	1.60	852	0.82	0.04	11.0	43.7
K306480		3.95	22.5	0.26	3.7	7.1	0.096	3.65	39.5	18.8	1.48	552	1.81	0.04	11.3	40.8
K306481		3.39	3.93	0.13	0.9	5.80	0.056	0.40	16.4	36.7	0.69	446	12.95	0.01	3.3	20.2
K306482		4.15	20.8	0.24	3.5	2.70	0.083	3.56	38.9	17.0	1.56	664	0.71	0.04	11.8	36.5
K306483		0.45	0.42	<0.05	<0.1	0.01	<0.005	0.06	0.6	1.6	12.35	208	0.15	0.01	0.3	3.4
K306484		1.94	7.86	0.13	1.2	1.97	0.034	1.32	18.3	6.1	0.87	762	0.45	0.02	3.9	15.2
K306512		1.84	8.28	0.13	1.3	1.81	0.035	1.42	18.4	6.3	0.87	722	0.42	0.02	4.0	16.8
K306486		0.43	0.28	<0.05	<0.1	0.01	<0.005	0.03	0.7	1.1	12.35	201	0.12	0.01	0.3	3.5

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12128744**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306451		310	16.1	21.0	0.002	0.28	1.11	2.4	2	0.5	115.0	0.16	0.05	3.2	0.066	11.45
K306452		570	11.6	60.1	<0.002	0.06	1.06	5.6	3	1.1	256	0.38	<0.05	7.5	0.159	13.50
K306453		190	9.1	17.3	0.003	0.06	0.51	2.0	2	0.4	376	0.12	<0.05	2.1	0.047	5.43
K306454		90	4.0	4.8	0.002	0.02	0.34	0.7	2	0.2	457	<0.05	<0.05	0.7	0.013	2.16
K306455		170	5.3	17.4	<0.002	0.02	0.90	2.0	1	0.4	492	0.11	<0.05	2.1	0.042	9.49
K306456		440	7.5	49.4	0.002	0.04	3.17	6.0	3	1.2	208	0.36	<0.05	7.1	0.151	31.5
K306457		370	6.6	46.5	0.002	0.98	3.14	4.2	2	0.8	247	0.25	<0.05	5.0	0.102	33.3
K306458		520	9.4	41.3	0.011	1.48	96.1	4.3	3	2.5	58.5	0.33	0.24	6.0	0.144	2.49
K306459		350	7.8	59.1	<0.002	0.86	1.72	4.6	3	0.9	236	0.27	0.06	5.3	0.111	24.2
K306460		570	8.6	107.5	0.002	1.55	3.40	8.3	3	1.4	273	0.51	<0.05	9.9	0.200	54.7
K306461		410	6.3	64.8	<0.002	0.80	1.50	5.1	3	0.8	333	0.30	<0.05	6.1	0.124	28.3
K306462		570	9.8	65.2	0.002	4.65	47.5	5.3	4	1.2	154.5	0.35	0.07	6.8	0.139	43.9
K306463		620	14.5	82.1	0.002	2.16	6.49	6.1	3	1.3	361	0.40	<0.05	8.4	0.162	56.8
K306464		530	10.2	60.7	0.004	1.63	3.81	5.8	2	1.3	260	0.40	<0.05	7.4	0.154	69.4
K306465		500	7.7	57.4	0.003	0.26	1.34	5.5	2	1.0	379	0.32	<0.05	6.2	0.127	23.5
K306466		220	8.4	60.8	0.003	1.14	0.58	7.4	2	0.9	719	0.26	0.05	4.5	0.148	2.43
K306467		200	8.2	60.4	<0.002	1.16	0.55	7.3	2	0.9	725	0.27	0.10	4.4	0.150	2.24
K306468		220	7.1	50.3	<0.002	1.10	0.34	6.3	1	0.8	847	0.22	0.07	3.6	0.127	2.15
K306469		160	7.9	56.6	0.002	1.34	0.75	6.6	2	0.9	818	0.28	0.07	4.6	0.163	2.35
K306470		160	4.7	25.3	0.002	0.65	0.58	3.7	2	0.5	1100	0.12	<0.05	2.3	0.066	1.91
K306471		310	10.4	66.0	0.004	2.28	0.47	8.1	3	1.0	687	0.29	0.09	4.9	0.167	3.15
K306472		380	9.6	72.2	0.006	1.40	0.52	7.9	2	1.1	500	0.29	0.10	5.3	0.165	2.44
K306473		300	6.4	47.4	0.004	1.24	0.32	5.8	3	0.7	612	0.20	0.08	3.4	0.111	1.64
K306474		330	8.3	61.9	0.003	1.31	0.36	7.2	2	0.9	568	0.26	0.12	4.6	0.147	2.34
K306475		270	8.1	57.4	0.002	1.35	0.32	6.7	3	0.9	668	0.24	0.13	4.3	0.140	3.15
K306476		190	7.2	51.4	<0.002	1.31	0.30	6.3	2	0.8	677	0.21	0.11	4.0	0.121	1.17
K306477		320	23.4	176.5	0.002	4.00	12.05	19.1	3	2.8	186.5	0.78	0.18	13.3	0.451	17.80
K306478		360	26.1	172.0	0.004	4.11	8.98	20.7	2	2.7	154.5	0.78	0.16	13.7	0.433	13.25
K306479		380	24.3	160.0	0.004	3.84	9.80	18.6	3	2.8	144.0	0.88	0.21	12.1	0.439	16.05
K306480		340	23.6	177.0	0.007	3.54	19.70	17.4	3	2.7	179.5	0.86	0.18	12.5	0.436	22.9
K306481		680	20.2	26.5	0.007	1.92	149.0	3.4	3	2.0	47.3	0.24	0.40	3.5	0.109	3.53
K306482		340	20.8	157.5	<0.002	3.55	2.44	16.7	2	2.7	180.0	0.87	0.13	11.4	0.458	6.15
K306483		190	1.1	4.0	<0.002	0.02	0.11	0.4	1	<0.2	45.4	<0.05	<0.05	<0.2	<0.005	0.05
K306484		230	8.5	63.3	0.002	1.57	1.67	6.8	2	1.0	670	0.28	0.06	4.3	0.142	4.36
K306512		230	8.2	67.0	<0.002	1.44	1.38	7.1	2	1.0	648	0.29	0.06	4.4	0.149	3.85
K306486		170	1.3	2.0	<0.002	0.02	0.09	0.5	1	<0.2	47.1	<0.05	<0.05	<0.2	<0.005	0.02

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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12128744**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
K306451		8.1	25	1.4	6.9	7	48.0	
K306452		8.9	51	3.1	13.0	16	90.1	
K306453		10.2	16	1.0	4.8	18	21.7	
K306454		10.8	6	0.4	5.1	11	10.1	
K306455		18.7	16	1.7	6.3	24	24.1	
K306456		8.9	47	4.0	10.8	14	76.8	
K306457		17.7	46	16.9	9.3	40	32.0	
K306458		5.2	88	70.7	13.5	66	48.9	
K306459		16.0	48	5.9	8.7	49	35.4	
K306460		11.3	73	5.2	13.3	22	63.5	
K306461		12.4	46	3.1	11.7	13	44.7	
K306462		18.8	61	3.6	9.4	39	51.4	7.20
K306463		28.2	81	20.6	7.7	50	46.8	1.920
K306464		16.5	57	8.1	10.1	47	82.5	1.030
K306465		16.2	40	4.5	12.9	26	51.9	
K306466		2.0	40	0.9	14.8	39	43.7	
K306467		2.0	41	0.8	14.6	40	45.0	
K306468		2.0	34	0.7	13.3	31	35.6	
K306469		1.8	39	1.2	12.7	37	51.7	
K306470		1.6	17	0.6	9.9	28	21.4	
K306471		1.9	47	0.7	13.1	42	51.5	
K306472		1.9	46	0.9	15.5	40	47.1	
K306473		1.7	31	0.5	12.0	37	32.8	
K306474		2.3	41	0.7	14.0	35	43.8	
K306475		1.9	39	0.6	13.2	30	39.4	
K306476		1.4	32	0.4	14.8	25	36.3	
K306477		2.6	117	3.5	21.2	90	127.0	
K306478		3.6	130	4.5	21.9	106	129.5	
K306479		3.6	133	4.7	22.8	109	122.5	
K306480		3.1	137	4.1	23.5	83	131.0	
K306481		3.5	107	221	16.1	75	31.2	
K306482		2.8	120	3.0	21.8	116	124.0	
K306483		0.9	2	0.1	0.9	15	0.5	
K306484		1.7	40	1.3	18.8	28	46.1	
K306512		1.8	42	1.3	18.0	34	46.6	
K306486		0.6	2	0.1	0.9	15	0.5	



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Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12128744**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12133930**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 031  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12133930**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306433		3.25	0.01	0.07	2.21	148	170	0.67	0.06	17.80	0.08	24.5	4.9	16	3.21	15.0
K306434		5.27	0.20	1.18	1.60	1720	220	0.49	0.06	18.10	0.12	20.0	2.8	16	2.41	9.8
K306435		7.78	0.49	0.26	1.17	2440	120	0.46	0.05	19.75	0.05	13.90	1.8	12	1.74	8.1
K306436		7.17	0.07	0.08	0.61	4160	30	0.29	0.04	20.1	<0.02	8.32	1.4	7	1.30	6.4
K306437		0.17	4.18	0.78	2.90	514	770	0.65	0.47	10.25	0.54	41.8	5.1	44	2.44	32.9
K306438		7.93	0.07	0.08	0.83	1940	40	0.28	0.04	19.75	0.13	9.57	1.7	8	1.69	7.5
K306439		7.95	0.04	0.12	0.71	913	50	0.32	0.04	19.55	0.18	7.11	1.8	9	1.50	7.8
K306440		4.86	<0.01	0.01	0.08	6	20	<0.05	0.15	21.3	0.07	1.07	0.9	1	0.50	2.8
K306441		7.85	0.04	0.07	0.65	135	70	0.29	0.03	20.8	0.09	7.98	1.7	7	1.49	6.8
K306442		7.92	0.04	0.07	0.97	252	40	0.49	0.05	20.1	0.10	11.25	2.5	8	1.95	8.4
K306443		7.95	0.03	0.05	0.65	651	90	0.32	0.03	21.4	0.09	8.68	1.8	7	1.19	6.8
K306444		7.70	0.03	0.14	0.58	1530	170	0.22	0.04	20.6	0.11	8.13	2.0	9	1.08	9.0
K306445		<0.02	0.04	0.15	0.57	1470	180	0.24	0.04	20.5	0.12	7.96	1.9	8	1.04	9.1
K306446		7.79	0.11	0.24	0.80	954	50	0.35	0.05	21.1	0.13	9.35	2.7	11	1.57	8.3
K306447		3.10	0.11	0.28	0.76	1320	510	0.33	0.03	20.1	0.15	9.48	1.8	9	1.51	6.6
K306448		3.29	0.07	0.08	0.84	553	300	0.35	0.04	20.8	0.09	10.90	1.9	9	1.78	7.7
K306449		6.70	<0.01	0.08	1.28	114	90	0.54	0.05	19.15	0.14	14.75	2.3	11	3.71	8.9
K306450		7.89	<0.01	0.08	0.74	36	140	0.35	0.04	19.55	0.12	9.96	1.7	7	1.76	5.4
K306551		4.47	<0.01	0.02	0.50	45	140	0.17	0.04	35.5	0.06	8.46	2.0	6	0.93	6.3
K306552		2.87	<0.01	0.01	0.24	43	110	0.14	0.02	37.1	0.04	5.09	1.3	4	0.34	3.4
K306553		7.26	0.01	0.03	0.92	174	120	0.26	0.05	33.8	0.03	13.15	3.3	10	1.87	10.9
K306554		3.85	0.01	0.03	0.69	145	110	0.18	0.04	34.7	0.04	12.40	2.6	8	1.31	8.5
K306555		0.78	<0.01	0.02	0.36	117	250	0.12	0.03	37.2	0.04	7.04	1.5	5	0.49	5.4
K306556		6.08	<0.01	0.03	0.42	93	150	0.16	0.03	36.0	0.03	7.71	1.8	5	0.77	5.7
K306557		4.96	<0.01	0.01	0.05	5	20	0.07	0.03	21.5	0.08	1.20	0.9	1	0.14	1.9
K306558		7.06	<0.01	0.11	0.85	47	130	0.27	0.05	34.7	0.04	11.50	3.3	9	1.90	11.2
K306559		7.36	<0.01	0.03	0.44	49	140	0.19	0.03	35.2	0.03	7.13	1.9	6	0.98	6.1
K306560		7.15	<0.01	0.04	0.67	49	130	0.21	0.04	34.8	0.04	10.55	2.6	8	1.50	9.6
K306561		0.18	2.65	1.09	3.09	597	820	0.72	0.31	7.99	2.28	45.9	6.2	53	3.68	40.5
K306562		7.50	0.05	0.06	1.63	127	160	0.39	0.09	31.0	0.12	22.8	5.5	18	4.14	20.8
K306563		7.42	<0.01	0.06	1.49	75	160	0.42	0.08	31.9	0.06	19.00	5.3	17	4.03	17.3
K306564		7.69	0.02	0.11	2.10	127	170	0.48	0.10	27.4	0.14	32.2	7.1	23	5.48	25.5
K306565		7.18	0.01	0.02	0.83	55	120	0.24	0.04	33.3	0.10	12.85	2.9	9	1.81	8.8
K306566		6.81	0.05	0.03	0.72	144	90	0.22	0.05	34.8	0.08	12.55	2.6	8	1.78	7.7
K306567		7.26	0.02	0.01	0.44	81	80	0.16	0.03	35.4	0.04	7.80	1.8	6	0.85	5.2
K306568		8.36	<0.01	0.02	0.57	44	140	0.23	0.04	35.7	0.10	10.80	2.3	7	1.36	7.6



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12133930**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K306433		0.66	5.31	0.10	1.5	1.11	0.015	0.87	13.5	10.1	8.80	313	0.48	0.02	3.5	9.7
K306434		1.11	3.81	0.11	1.2	2.57	0.012	0.65	11.7	8.7	9.32	731	0.63	0.02	2.5	8.2
K306435		0.87	2.79	0.11	0.9	3.01	0.013	0.53	7.8	5.1	10.20	783	0.64	0.01	1.8	5.0
K306436		0.28	1.53	0.25	0.4	0.85	0.005	0.28	4.8	4.1	11.75	641	0.56	0.02	0.9	3.3
K306437		1.83	6.25	0.17	1.6	4.51	0.032	0.85	24.8	60.2	5.07	358	9.53	0.02	5.5	32.3
K306438		0.37	2.04	0.22	0.5	1.71	0.011	0.38	5.3	5.3	11.50	492	0.48	0.01	1.2	4.3
K306439		0.36	1.79	0.27	0.3	1.23	0.009	0.33	4.1	4.4	11.65	329	0.52	0.01	1.0	4.6
K306440		0.47	0.27	0.30	<0.1	0.01	0.007	0.04	0.5	1.3	13.05	218	0.21	0.01	0.2	4.2
K306441		0.34	1.68	0.26	0.3	0.66	0.005	0.30	4.8	3.8	12.35	226	0.63	0.01	1.0	4.3
K306442		0.43	2.47	0.30	0.5	0.73	0.005	0.47	6.4	6.1	11.95	267	0.58	0.01	1.5	5.5
K306443		0.34	1.67	0.33	0.3	0.65	0.008	0.30	5.1	3.9	12.35	412	0.34	0.01	1.0	4.3
K306444		0.46	1.53	0.30	0.3	1.2	0.006	0.27	4.8	3.3	12.00	437	1.13	0.01	0.8	4.9
K306445		0.46	1.41	0.28	0.3	1.45	0.005	0.26	4.7	3.2	11.90	430	1.12	0.01	0.9	4.8
K306446		0.47	1.94	0.28	0.4	1.36	0.006	0.38	5.5	4.4	12.15	444	1.63	0.01	1.2	6.5
K306447		0.46	1.77	0.28	0.5	1.20	<0.005	0.36	5.5	4.3	11.80	326	0.45	0.01	1.1	5.2
K306448		0.53	2.09	0.28	0.5	1.2	0.006	0.41	6.4	4.0	11.20	357	0.34	0.01	1.3	4.6
K306449		0.55	3.07	0.26	0.9	0.41	0.006	0.64	8.4	7.2	11.25	134	0.60	0.02	2.0	5.8
K306450		0.51	1.77	0.27	0.6	0.29	0.005	0.36	5.8	4.3	11.75	145	0.80	0.02	1.1	4.6
K306551		0.35	1.26	0.26	0.2	0.71	0.007	0.22	3.8	2.0	0.52	102	0.22	0.01	0.6	3.2
K306552		0.22	0.67	0.23	0.1	0.47	<0.005	0.10	2.3	0.9	0.39	153	0.18	0.01	0.4	1.6
K306553		0.80	2.35	0.22	0.4	1.76	0.012	0.41	6.4	3.1	0.73	273	0.35	0.01	1.2	6.0
K306554		0.65	1.68	0.21	0.3	1.36	0.011	0.30	5.6	2.3	0.67	259	0.30	0.01	0.9	4.4
K306555		0.30	0.95	0.18	0.2	0.64	0.007	0.14	3.1	1.1	0.37	133	0.22	0.01	0.4	2.3
K306556		0.36	1.08	0.21	0.2	0.70	0.008	0.17	3.5	1.7	0.51	121	0.22	0.01	0.6	2.6
K306557		0.46	0.23	0.23	<0.1	0.01	0.005	0.02	0.6	1.1	13.05	211	0.12	<0.01	0.2	1.8
K306558		0.60	2.11	0.20	0.4	0.49	0.009	0.38	5.6	3.5	0.59	207	0.39	0.01	1.1	5.6
K306559		0.40	1.13	0.23	0.2	0.20	0.007	0.19	3.4	2.0	0.53	113	0.27	0.01	0.6	3.1
K306560		0.54	1.76	0.18	0.4	0.28	0.010	0.29	4.8	2.8	0.66	202	0.53	0.01	0.9	4.7
K306561		2.04	7.24	0.21	1.8	4.60	0.027	0.96	28.8	42.8	2.50	268	17.55	0.03	6.6	50.3
K306562		1.02	4.04	0.20	0.9	2.72	0.013	0.72	10.5	6.9	0.72	230	1.40	0.02	2.2	11.2
K306563		0.96	3.71	0.16	0.8	0.56	0.014	0.67	8.8	6.1	0.70	306	0.87	0.02	2.0	9.6
K306564		1.38	5.36	0.20	1.0	1.67	0.019	0.93	14.0	8.3	1.20	257	1.59	0.02	2.8	14.4
K306565		0.66	2.06	0.16	0.4	1.34	0.008	0.37	6.1	2.8	0.60	196	0.31	0.01	1.1	4.9
K306566		0.53	1.85	0.18	0.4	2.13	0.010	0.32	5.9	2.5	0.40	431	0.29	0.01	1.0	4.0
K306567		0.41	1.06	0.14	0.2	1.02	0.005	0.20	3.8	1.7	0.64	316	0.22	0.01	0.5	2.4
K306568		0.39	1.39	0.19	0.3	0.39	0.006	0.24	4.7	2.8	0.51	148	0.29	0.01	0.8	3.8

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12133930**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306433		470	8.9	26.6	<0.002	0.45	2.11	3.5	<1	0.6	255	0.26	<0.05	4.6	0.095	5.22
K306434		450	6.9	18.9	0.002	0.96	3.53	2.6	2	0.5	274	0.19	<0.05	3.5	0.074	12.20
K306435		280	7.4	15.3	0.002	0.69	2.52	1.8	1	0.5	209	0.14	<0.05	2.6	0.055	11.20
K306436		130	5.0	8.7	0.003	0.42	1.17	1.0	1	0.3	93.4	0.07	<0.05	1.1	0.027	2.52
K306437		560	9.5	47.5	0.009	1.54	96.5	4.5	1	2.5	56.6	0.36	0.24	6.0	0.155	2.58
K306438		130	6.6	11.8	<0.002	0.36	1.17	1.3	1	0.3	113.5	0.09	<0.05	1.5	0.036	4.02
K306439		180	6.4	10.0	0.002	0.35	0.71	1.2	<1	0.3	99.6	0.08	<0.05	1.3	0.030	2.72
K306440		190	1.3	2.5	<0.002	0.01	0.08	0.3	<1	<0.2	43.6	<0.05	<0.05	<0.2	<0.005	0.04
K306441		130	6.1	8.7	<0.002	0.30	0.92	1.1	1	0.2	117.5	0.06	<0.05	1.2	0.029	2.12
K306442		140	7.5	13.9	<0.002	0.42	1.05	1.6	<1	0.3	115.5	0.11	<0.05	1.8	0.043	2.04
K306443		160	4.8	9.0	<0.002	0.30	0.59	1.1	<1	0.2	104.5	0.07	<0.05	1.2	0.027	1.75
K306444		240	6.4	8.0	<0.002	0.45	0.81	1.0	<1	0.2	110.5	0.06	<0.05	1.1	0.025	2.26
K306445		240	6.5	7.9	<0.002	0.45	0.76	1.0	1	0.3	110.0	0.06	<0.05	1.1	0.025	2.26
K306446		230	9.7	11.4	<0.002	0.51	0.89	1.4	1	0.3	109.5	0.09	<0.05	1.5	0.036	3.30
K306447		190	8.7	10.5	<0.002	0.52	0.86	1.2	1	0.3	116.5	0.08	<0.05	1.4	0.033	2.86
K306448		200	6.9	12.0	0.002	0.49	0.94	1.5	1	0.3	104.5	0.09	<0.05	1.6	0.037	4.84
K306449		210	31.5	18.6	0.002	0.50	0.37	2.0	1	0.4	79.8	0.16	<0.05	2.7	0.060	1.66
K306450		150	8.4	10.0	0.003	0.49	0.35	1.2	1	0.3	79.1	0.09	<0.05	1.6	0.035	1.09
K306551		580	2.6	8.4	<0.002	0.34	0.61	1.5	<1	0.2	2280	0.05	<0.05	0.8	0.025	0.38
K306552		320	1.7	3.7	<0.002	0.17	0.53	0.8	<1	<0.2	2220	<0.05	<0.05	0.4	0.010	0.25
K306553		360	7.8	15.9	<0.002	0.67	1.75	2.3	1	0.3	2190	0.09	<0.05	1.3	0.055	1.88
K306554		330	6.1	11.7	0.002	0.50	1.39	1.9	<1	0.2	2190	0.06	<0.05	1.1	0.040	1.53
K306555		1210	2.8	5.6	<0.002	0.23	0.61	1.2	<1	0.2	2390	<0.05	0.06	0.6	0.016	0.72
K306556		660	2.9	6.8	0.002	0.29	0.55	1.4	1	0.2	2270	<0.05	<0.05	0.7	0.022	0.86
K306557		180	1.2	1.0	<0.002	0.01	0.07	0.3	<1	<0.2	54.7	<0.05	<0.05	<0.2	<0.005	0.03
K306558		1320	7.5	15.3	0.002	0.55	0.73	2.2	1	0.3	2130	0.08	<0.05	1.3	0.044	0.97
K306559		590	3.3	7.3	<0.002	0.32	0.26	1.3	1	0.2	2080	<0.05	<0.05	0.7	0.024	0.46
K306560		830	4.2	11.7	0.004	0.44	0.40	1.8	1	0.3	1890	0.06	<0.05	1.0	0.037	0.87
K306561		880	37.4	45.3	0.023	1.53	111.5	4.8	4	2.4	72.4	0.42	0.23	6.2	0.170	4.19
K306562		1620	7.8	30.0	0.009	1.06	2.39	4.0	1	0.5	2010	0.17	<0.05	2.6	0.093	3.74
K306563		1110	7.1	27.8	0.002	0.86	1.13	3.8	1	0.5	1880	0.14	0.05	2.3	0.092	1.84
K306564		1710	10.9	39.7	0.009	1.30	1.74	5.7	2	0.7	1840	0.20	<0.05	3.1	0.120	2.76
K306565		320	4.0	14.1	0.002	0.55	0.80	2.2	1	0.2	1710	0.08	<0.05	1.4	0.049	1.95
K306566		390	3.4	13.9	<0.002	0.51	2.21	2.3	1	0.3	1520	0.08	<0.05	1.2	0.040	3.40
K306567		160	2.5	7.6	<0.002	0.33	0.83	1.3	<1	0.2	1430	<0.05	<0.05	0.8	0.024	1.28
K306568		250	2.2	10.2	<0.002	0.41	0.31	1.5	1	0.2	2200	0.06	0.05	1.0	0.031	0.82



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12133930**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K306433		13.6	30	2.8	9.6	17	47.7
K306434		9.8	20	6.9	8.5	59	35.9
K306435		15.4	15	2.7	5.7	15	28.2
K306436		16.7	14	0.8	3.1	4	12.0
K306437		5.9	97	68.8	15.1	71	48.3
K306438		17.5	11	1.2	3.8	33	15.7
K306439		19.9	17	1.0	3.0	49	9.0
K306440		0.6	1	0.1	0.8	17	<0.5
K306441		18.1	15	1.1	3.0	20	8.9
K306442		18.3	14	1.5	3.8	30	14.3
K306443		15.4	9	0.9	3.3	18	8.4
K306444		16.2	10	0.8	3.6	28	7.8
K306445		16.3	10	0.8	3.5	32	7.6
K306446		21.8	22	1.1	3.8	34	13.7
K306447		14.3	13	1.6	3.7	44	13.2
K306448		13.1	22	1.2	4.4	34	14.7
K306449		16.3	23	1.9	5.4	36	26.0
K306450		14.4	16	0.9	3.8	31	16.7
K306551		2.0	7	0.6	8.0	7	7.2
K306552		1.7	2	0.3	5.6	3	4.0
K306553		2.0	13	1.1	9.4	3	11.5
K306554		1.8	9	0.8	8.9	2	8.9
K306555		2.1	4	0.4	9.8	5	8.4
K306556		2.0	6	0.5	8.8	5	8.7
K306557		0.4	<1	0.1	0.8	19	<0.5
K306558		2.6	11	1.6	9.0	5	11.8
K306559		1.9	6	0.5	6.8	4	6.6
K306560		2.7	9	0.8	8.3	6	10.1
K306561		9.1	233	28.1	19.7	212	56.6
K306562		4.3	27	1.9	16.0	23	22.9
K306563		3.3	26	0.8	12.8	20	21.7
K306564		4.9	39	1.9	24.1	24	29.7
K306565		2.0	12	1.1	10.5	9	11.9
K306566		2.1	10	1.1	12.9	7	10.6
K306567		1.5	6	0.6	7.7	5	6.7
K306568		1.7	8	0.3	7.7	9	8.1



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**CERTIFICATE OF ANALYSIS WH12133930**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12147070**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 034  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12147070**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666538		5.99	<0.01	0.09	5.18	108	440	1.32	0.17	18.10	0.04	51.7	7.3	38	17.80	20.8
M666539		9.68	<0.01	0.07	3.98	68	310	1.15	0.14	22.4	0.03	35.9	6.2	30	12.25	26.8
M666540		8.27	0.01	0.09	3.08	301	310	0.89	0.10	22.9	0.07	30.4	5.2	22	10.80	11.2
M666541		9.59	<0.01	0.04	1.85	70	140	0.51	0.06	21.4	0.05	18.35	3.7	13	5.10	6.4
M666542		10.20	<0.01	0.09	3.95	121	320	1.09	0.15	19.25	0.05	39.2	7.4	28	12.25	11.4
M666543		0.20	0.32	0.33	6.21	618	370	0.59	0.29	0.50	0.20	139.5	2.9	243	3.31	30.3
M666544		6.83	<0.01	0.11	5.35	161	310	1.53	0.23	17.05	0.04	55.3	10.0	39	19.80	18.0
M666545		8.02	<0.01	0.02	7.53	31.6	350	2.05	0.22	9.18	0.04	82.6	7.6	53	32.2	12.1
M666546		9.40	<0.01	0.01	5.83	172.0	350	1.57	0.23	9.10	0.17	69.8	9.5	44	28.7	11.7
M666547		7.24	<0.01	0.02	8.71	38.5	380	3.10	0.37	1.72	0.02	82.5	14.3	74	43.9	43.1
M666548		10.59	0.01	0.44	0.89	120	160	0.37	0.02	20.9	0.18	14.90	4.2	9	2.08	6.8
M666549		4.94	<0.01	0.10	0.79	76	170	0.45	0.02	20.9	0.15	14.40	4.6	9	1.90	6.1
M666550		10.09	<0.01	0.05	1.90	14	110	0.74	0.05	19.60	0.10	22.2	4.7	14	6.54	17.0
M666551		7.76	<0.01	0.04	1.61	17	70	0.66	0.04	22.0	0.10	19.20	2.9	12	5.09	7.2
M666552		7.61	0.01	0.10	1.97	48	90	0.68	0.06	23.3	0.11	22.5	4.4	15	6.69	17.6
M666553		6.89	<0.01	0.02	0.09	<5	30	0.07	0.02	22.1	0.06	1.25	0.7	2	0.64	2.5
M666554		8.94	<0.01	0.10	2.81	65	220	0.97	0.06	14.30	0.12	31.7	5.1	26	10.80	12.8
M666555		7.15	0.04	0.07	1.27	187	120	0.53	0.04	19.05	0.19	19.75	2.9	12	4.09	9.5
M666556		10.37	0.02	0.06	0.96	179	150	0.42	0.02	18.95	0.05	13.45	2.0	12	2.53	6.3
M666557		3.13	0.06	0.06	0.60	307	60	0.26	0.01	20.7	0.05	10.10	1.1	7	1.07	4.0
M666558		4.06	0.12	0.09	0.94	370	90	0.42	0.02	19.25	0.06	11.30	1.1	11	2.28	4.9
M666559		0.20	0.41	0.49	6.74	647	590	0.67	0.27	0.76	0.20	151.0	4.2	243	3.57	17.0
M666560		5.40	<0.01	0.03	8.61	12.6	910	2.36	0.38	0.65	0.02	83.7	13.9	70	17.25	34.0
M666561		4.10	<0.01	0.02	8.85	21.9	1040	2.59	0.40	0.69	<0.02	93.6	14.9	84	17.05	19.7
M666562		7.95	0.01	0.06	2.34	50	80	0.88	0.05	24.2	0.06	26.9	3.3	24	5.95	13.2
M666563		8.33	0.03	0.04	1.36	54	250	0.61	0.03	30.8	0.04	17.70	2.2	14	3.83	8.5
M666564		10.09	0.14	0.04	3.55	163	250	1.30	0.09	17.75	0.08	39.8	4.8	36	10.90	24.9
M666565		10.20	<0.01	0.02	4.02	37	240	1.41	0.10	13.95	0.11	45.1	5.5	41	13.90	16.6
M666566		10.98	<0.01	0.05	4.10	38	310	1.34	0.10	11.55	0.06	48.1	6.6	44	16.20	26.3
M666567		9.86	<0.01	0.07	2.86	47	180	0.99	0.07	19.00	0.11	38.6	5.0	30	11.45	15.4
M666568		8.59	<0.01	0.08	4.13	32	200	1.29	0.08	11.55	0.10	50.1	6.6	46	12.30	21.8
M666569		6.97	<0.01	0.01	0.06	<5	10	0.05	0.02	22.0	0.06	1.03	0.6	1	0.32	2.1
M666570		10.60	<0.01	0.07	4.29	20	210	1.35	0.11	11.90	0.07	48.6	7.3	45	15.40	29.0
M666571		10.25	<0.01	0.02	2.96	9	140	0.99	0.10	23.1	0.09	34.3	4.9	29	10.90	20.3
M666572		<0.02	<0.01	0.01	2.70	7	130	0.93	0.08	21.4	0.09	32.1	4.4	27	10.00	17.8
M666573		10.60	<0.01	0.03	4.53	7	320	1.38	0.13	13.15	0.10	51.9	7.6	46	19.05	31.1





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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12147070**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M666538		2.03	12.40	0.15	2.0	0.03	0.044	2.64	27.2	19.3	2.07	353	0.45	0.04	6.7	17.7
M666539		1.69	9.52	0.14	1.6	0.03	0.028	2.02	19.4	11.3	1.49	308	0.49	0.03	5.2	13.5
M666540		1.40	7.22	0.13	1.3	0.05	0.025	1.53	16.3	9.2	3.45	320	0.40	0.03	4.0	11.1
M666541		1.40	4.32	0.13	0.9	0.01	0.013	0.94	9.4	6.7	7.74	458	0.25	0.04	2.3	6.9
M666542		1.67	9.59	0.14	1.7	0.04	0.024	1.99	20.5	11.1	3.45	454	0.42	0.04	5.2	14.2
M666543		6.93	19.50	0.19	4.1	9.04	0.053	1.36	65.6	18.4	0.13	39	6.39	0.37	9.5	16.1
M666544		1.89	13.85	0.15	2.2	0.04	0.048	2.75	29.8	17.1	2.21	345	0.47	0.04	7.7	19.1
M666545		3.08	18.85	0.14	2.8	0.02	0.050	3.79	43.2	29.8	1.47	277	0.21	0.04	10.1	23.9
M666546		2.47	14.75	0.17	2.5	0.04	0.045	3.07	35.9	23.1	3.80	456	0.29	0.04	8.6	19.2
M666547		3.06	23.8	0.19	3.3	0.18	0.071	4.74	43.1	36.3	1.62	139	0.27	0.04	12.7	39.8
M666548		1.70	2.25	0.11	0.5	0.17	0.009	0.44	6.9	6.0	8.38	789	0.29	0.03	1.3	5.9
M666549		1.65	2.08	0.11	0.5	0.14	0.011	0.41	6.7	5.7	8.65	796	0.23	0.02	1.2	5.8
M666550		1.16	4.88	0.12	0.9	0.30	0.014	0.98	11.3	9.9	8.48	528	0.31	0.02	2.8	7.1
M666551		0.91	4.00	0.14	0.9	0.35	0.013	0.84	10.4	8.7	6.70	275	0.27	0.02	2.4	5.0
M666552		0.77	4.75	0.15	1.2	0.32	0.015	1.02	12.1	8.6	5.16	222	0.61	0.02	3.0	8.4
M666553		0.48	0.29	0.16	<0.1	<0.01	<0.005	0.05	0.6	1.6	13.10	209	0.09	0.01	0.3	1.9
M666554		1.02	6.99	0.15	1.7	0.20	0.019	1.48	17.0	13.4	7.54	219	1.13	0.02	4.2	11.4
M666555		0.63	3.42	0.18	0.8	0.32	0.011	0.64	10.3	6.2	11.20	232	0.47	0.02	2.0	5.7
M666556		0.45	2.41	0.20	0.6	0.54	0.011	0.46	7.3	5.1	11.10	258	0.59	0.01	1.5	4.0
M666557		0.40	1.45	0.18	0.5	1.24	0.005	0.28	5.7	3.0	12.30	286	0.24	0.01	0.8	2.9
M666558		0.37	2.45	0.19	0.6	1.05	0.009	0.46	6.3	5.5	11.45	266	0.24	0.02	1.4	2.6
M666559		6.79	21.7	0.22	4.0	11.5	0.052	1.41	75.8	18.6	0.15	18	5.44	0.42	9.9	14.1
M666560		5.65	23.3	0.21	2.9	0.06	0.070	3.94	41.9	84.8	1.59	384	0.24	0.07	12.2	36.6
M666561		5.40	23.4	0.21	2.8	0.06	0.069	3.98	48.1	59.6	1.33	295	0.26	0.07	12.1	35.0
M666562		0.90	5.65	0.13	1.2	0.27	0.016	1.32	14.3	12.1	3.37	199	0.52	0.02	3.5	8.1
M666563		0.53	3.32	0.13	0.5	0.32	0.008	0.75	9.9	6.9	1.36	187	0.47	0.01	2.0	5.2
M666564		1.44	8.79	0.17	1.5	0.69	0.029	2.00	21.7	17.6	4.23	387	0.55	0.02	5.3	10.8
M666565		1.77	10.05	<0.05	1.9	0.13	0.036	2.33	24.2	19.2	4.00	267	0.32	0.03	6.2	16.7
M666566		1.66	10.20	<0.05	2.2	0.09	0.034	2.33	24.8	29.8	4.50	266	0.51	0.04	6.5	18.1
M666567		1.23	7.61	0.05	1.4	0.09	0.032	1.52	20.0	36.7	3.55	232	0.71	0.03	4.8	13.7
M666568		1.94	10.40	0.08	2.2	0.08	0.033	1.99	25.1	62.7	5.43	261	0.98	0.15	6.7	18.3
M666569		0.49	0.23	0.13	<0.1	<0.01	0.011	0.03	0.5	1.7	13.05	218	0.10	0.01	0.2	1.8
M666570		1.98	11.20	0.09	2.0	0.07	0.037	2.01	26.9	76.6	4.53	264	0.76	0.18	6.8	21.3
M666571		1.30	7.68	<0.05	1.3	0.03	0.025	1.39	18.4	52.1	2.56	267	0.23	0.17	4.6	14.2
M666572		1.20	7.08	0.05	1.1	0.03	0.023	1.25	17.1	49.5	2.35	244	0.22	0.16	4.3	13.4
M666573		2.10	12.00	0.11	2.2	0.02	0.035	2.11	28.4	67.4	3.87	314	0.28	0.22	7.3	22.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12147070**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666538		770	7.7	96.0	0.002	0.01	0.42	9.6	<1	1.7	526	0.52	0.07	7.7	0.236	1.08
M666539		750	8.4	71.4	0.002	0.01	0.37	6.9	1	1.3	623	0.41	0.05	6.4	0.179	0.92
M666540		580	6.3	57.1	<0.002	0.01	0.45	5.3	1	1.1	584	0.31	0.05	4.9	0.132	1.39
M666541		410	3.9	31.4	0.002	0.02	0.21	3.2	<1	0.7	286	0.20	<0.05	3.1	0.081	0.59
M666542		850	7.8	76.0	0.002	0.02	0.45	7.0	<1	1.4	463	0.41	<0.05	6.3	0.175	1.04
M666543		920	17.8	44.4	0.002	3.04	117.5	16.0	2	3.2	507	0.79	0.16	9.0	0.559	8.10
M666544		690	9.5	108.0	0.002	0.02	0.69	10.4	<1	1.9	364	0.57	0.07	8.9	0.250	1.24
M666545		1350	8.8	142.5	0.002	0.01	0.29	14.8	1	2.5	138.0	0.82	0.11	13.3	0.362	0.84
M666546		1870	9.3	127.5	<0.002	0.09	0.31	11.4	1	2.0	104.0	0.64	0.05	10.5	0.288	0.80
M666547		710	14.6	158.0	<0.002	1.14	0.57	17.3	1	3.0	80.6	1.02	<0.05	13.8	0.446	1.43
M666548		1710	6.0	13.7	0.002	0.72	0.24	1.7	<1	0.5	195.0	0.11	<0.05	1.7	0.041	0.82
M666549		1720	5.2	12.9	0.002	0.53	0.19	1.5	<1	0.5	183.0	0.09	<0.05	1.6	0.037	0.61
M666550		630	4.7	31.2	0.002	0.16	0.15	3.1	<1	0.9	207	0.21	<0.05	3.5	0.081	0.52
M666551		400	3.8	26.1	<0.002	0.18	0.15	2.7	<1	0.8	439	0.18	<0.05	3.2	0.071	0.53
M666552		420	14.5	30.4	0.003	0.25	0.34	3.1	1	0.9	563	0.24	<0.05	4.0	0.089	1.49
M666553		210	1.4	3.0	<0.002	0.01	<0.05	0.3	<1	0.3	47.6	<0.05	<0.05	<0.2	<0.005	0.03
M666554		500	10.8	45.6	0.002	0.24	0.40	4.6	1	1.1	188.0	0.32	<0.05	5.4	0.123	3.16
M666555		600	7.9	20.1	<0.002	0.15	0.37	2.2	1	0.7	106.0	0.16	<0.05	2.5	0.056	2.12
M666556		450	6.2	13.4	<0.002	0.04	0.41	1.6	<1	0.5	98.3	0.11	<0.05	2.0	0.044	1.90
M666557		470	6.4	7.8	<0.002	0.01	0.63	1.0	<1	0.4	97.3	0.07	<0.05	1.2	0.027	2.38
M666558		350	6.8	13.3	<0.002	0.01	0.77	1.5	<1	0.6	86.8	0.11	<0.05	1.8	0.043	4.02
M666559		990	15.3	49.5	<0.002	3.33	119.0	17.6	1	2.5	559	0.73	0.10	9.2	0.566	8.48
M666560		390	18.7	165.5	<0.002	0.02	0.82	17.4	<1	2.8	199.5	0.98	0.08	13.9	0.416	1.03
M666561		440	23.8	172.0	0.002	0.02	0.75	17.5	1	2.8	199.0	0.96	0.06	14.9	0.415	0.97
M666562		330	7.8	44.8	<0.002	0.28	0.25	3.7	1	1.0	637	0.27	<0.05	4.8	0.105	0.61
M666563		190	4.4	26.5	<0.002	0.16	0.17	2.2	<1	0.7	717	0.17	<0.05	2.5	0.058	0.62
M666564		430	6.6	72.5	0.002	0.24	0.40	5.7	1	1.5	302	0.42	<0.05	6.7	0.158	1.87
M666565		400	7.0	96.5	0.007	0.34	0.36	6.1	2	1.6	230	0.49	<0.05	8.8	0.183	0.75
M666566		480	8.6	102.5	0.006	0.32	0.39	6.2	2	1.6	190.5	0.52	<0.05	8.7	0.190	0.75
M666567		320	8.7	81.8	0.007	0.25	0.42	4.7	3	1.2	420	0.34	<0.05	6.1	0.133	0.66
M666568		490	12.0	97.5	0.007	0.29	0.51	6.2	3	1.6	241	0.51	<0.05	9.0	0.197	0.73
M666569		160	1.5	2.0	0.004	0.01	0.14	0.2	1	0.3	42.3	<0.05	<0.05	0.2	<0.005	0.03
M666570		510	12.1	108.5	0.006	0.21	0.56	6.9	4	1.7	245	0.53	<0.05	9.2	0.193	0.74
M666571		290	6.5	69.5	0.006	0.03	0.24	4.7	2	1.2	449	0.36	<0.05	5.8	0.133	0.39
M666572		260	6.1	62.0	0.003	0.03	0.21	4.3	2	1.1	416	0.34	<0.05	5.6	0.120	0.38
M666573		480	8.6	107.0	0.005	0.05	0.33	7.4	2	1.8	263	0.54	<0.05	9.2	0.202	0.57



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12147070**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M666538		6.5	71	1.0	15.1	28	66.6
M666539		7.4	52	0.8	11.6	21	53.1
M666540		6.0	41	0.7	9.3	20	42.8
M666541		3.3	24	0.4	5.8	16	27.0
M666542		6.2	51	0.8	12.0	19	54.1
M666543		7.6	167	23.0	14.2	44	159.0
M666544		6.1	70	1.1	16.2	22	75.9
M666545		3.3	94	1.6	23.1	30	92.4
M666546		3.4	76	1.4	22.5	31	77.8
M666547		2.9	101	1.9	22.3	30	109.0
M666548		2.6	13	0.4	9.0	16	17.1
M666549		2.6	12	0.3	9.2	13	16.1
M666550		5.0	24	0.5	7.1	13	32.6
M666551		5.7	22	0.6	6.4	15	31.0
M666552		9.0	28	0.5	7.4	37	41.4
M666553		0.4	3	0.1	0.9	16	<0.5
M666554		7.4	47	0.6	8.9	48	56.8
M666555		5.9	19	0.4	6.4	55	29.2
M666556		5.7	15	0.5	4.8	11	20.7
M666557		5.5	13	0.4	4.8	26	16.2
M666558		6.8	19	0.8	4.6	33	21.1
M666559		7.8	177	33.6	14.6	42	155.5
M666560		1.9	82	1.6	17.8	88	90.7
M666561		2.5	87	1.6	18.9	86	89.1
M666562		11.1	33	1.7	8.0	18	36.8
M666563		10.8	22	0.9	5.1	13	17.5
M666564		6.7	49	2.3	12.0	14	50.0
M666565		3.9	44	1.6	11.9	32	65.9
M666566		5.4	63	1.1	13.2	40	75.4
M666567		9.1	42	0.6	9.6	51	51.9
M666568		6.2	64	0.8	12.7	69	76.2
M666569		0.5	2	0.1	0.7	13	<0.5
M666570		5.5	60	0.8	13.6	72	71.4
M666571		7.3	42	0.6	9.3	46	43.4
M666572		6.8	37	0.6	8.6	43	42.0
M666573		5.2	62	0.9	14.4	63	73.2



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**CERTIFICATE OF ANALYSIS WH12147070**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12134650**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 037  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 15- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12134650**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306605		5.85	<0.01	0.04	1.07	43	160	0.40	0.04	33.1	0.11	15.60	4.3	12	3.05	11.4
K306606		5.45	<0.01	0.02	0.89	34	130	0.28	0.04	33.3	0.12	12.25	3.4	8	3.25	9.1
K306607		7.30	<0.01	0.02	1.09	30	160	0.30	0.04	32.9	0.13	15.90	4.3	11	3.65	11.4
K306608		7.19	<0.01	0.02	1.33	69	180	0.28	0.05	32.5	0.15	17.95	5.3	14	4.29	13.3
K306609		2.21	<0.01	0.04	3.41	169	210	0.54	0.13	22.5	0.25	37.4	12.8	31	15.15	32.8
K306610		5.05	0.06	0.07	2.11	598	140	0.34	0.08	30.2	0.15	24.7	8.2	21	6.65	21.0
K306611		7.37	0.24	0.17	0.54	2730	90	0.15	0.02	36.0	0.10	8.41	2.4	6	1.15	6.4
K306671		4.89	<0.01	0.01	0.09	<5	20	0.08	0.02	21.4	0.06	1.29	1.5	1	0.43	3.4
K306613		0.23	2.69	1.01	3.24	569	830	0.85	0.27	8.20	2.11	42.9	7.3	53	3.56	42.6
K306614		7.77	0.10	0.06	1.21	196	110	0.22	0.05	34.5	0.18	14.45	4.5	11	2.48	11.8
K306615		7.24	0.02	<0.01	0.47	53	100	0.20	0.02	37.4	0.08	7.97	1.9	5	1.18	4.7
K306616		2.62	0.01	0.01	1.14	101	120	0.42	0.04	33.9	0.09	16.95	4.7	12	3.70	11.7
K306617		4.88	0.23	0.06	2.84	170	180	0.76	0.10	26.6	0.18	30.7	10.8	28	8.83	27.6
K306618		7.12	<0.01	0.06	3.89	115	220	1.25	0.16	22.0	0.26	44.6	13.6	35	16.50	35.6
K306619		7.46	<0.01	0.09	4.57	117	230	1.26	0.19	18.65	0.32	48.8	17.9	42	16.70	48.2
K306620		7.51	<0.01	0.05	3.19	85	180	0.76	0.13	25.6	0.21	37.6	11.9	30	9.92	31.5
K306621		7.92	<0.01	0.05	3.67	75	190	0.91	0.15	22.7	0.24	42.2	13.9	36	11.65	38.1
K306622		8.07	<0.01	0.06	3.58	101	230	0.94	0.15	22.4	0.20	41.9	13.1	33	10.55	35.2
K306623		8.06	0.01	0.01	0.32	58	60	0.12	0.01	36.1	0.03	6.33	1.6	3	0.68	4.1
K306624		<0.02	<0.01	0.01	0.30	53	60	0.14	0.01	35.7	0.03	6.25	1.6	3	0.66	4.0
K306625		7.81	<0.01	0.01	0.42	47	120	0.16	0.02	35.8	0.02	6.47	2.1	4	0.94	5.8
K306626		2.26	<0.01	0.09	5.40	147.0	200	2.50	0.12	9.07	0.08	51.9	13.0	52	22.3	18.0
K306627		7.91	0.08	0.07	1.66	10000	190	0.66	0.04	17.95	0.06	19.10	5.0	15	4.44	9.2
K306628		6.48	0.10	0.08	1.55	601	440	0.58	0.03	19.60	0.06	17.40	4.1	12	3.74	8.4
K306629		3.02	0.09	0.05	1.38	542	880	0.48	0.03	20.0	0.16	16.25	3.4	11	3.63	6.8
K306630		7.92	0.12	0.07	0.80	810	60	0.27	0.02	20.4	0.02	12.65	3.0	7	1.47	5.7
K306631		6.93	0.44	0.04	0.25	1560	70	0.12	0.01	20.5	0.08	7.01	1.4	3	0.31	2.7
K306632		6.87	0.54	0.07	0.64	2200	60	0.24	0.02	19.65	0.03	9.07	2.2	6	0.91	4.8
K306633		4.92	<0.01	0.01	0.14	12	30	0.08	0.03	21.1	0.06	1.51	1.5	2	0.87	1.4
K306634		0.23	16.65	1.07	2.06	1150	240	0.49	0.58	15.10	0.66	31.0	4.4	36	2.33	64.9
K306635		7.85	0.54	0.08	0.73	989	70	0.32	0.03	19.35	0.02	9.60	2.3	7	1.22	7.0
K306636		7.86	0.68	0.03	0.59	997	30	0.24	0.02	19.80	0.02	8.20	1.2	4	0.88	2.6
K306637		8.22	0.23	0.03	1.01	309	50	0.47	0.03	19.60	<0.02	10.90	1.7	7	2.57	3.2
K306638		8.02	0.86	0.08	0.74	1920	30	0.32	0.02	19.35	0.04	9.56	2.2	7	1.44	5.0
K306639		7.58	0.85	0.09	0.81	5680	30	0.37	0.03	19.00	0.02	10.00	2.7	7	1.37	6.8
K306640		8.19	0.91	0.08	0.69	5800	30	0.24	0.03	19.10	0.03	8.46	1.6	6	1.14	5.7



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12134650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K306605		0.79	2.77	0.08	0.5	0.51	0.009	0.48	7.9	3.4	0.89	301	0.33	0.01	1.8	6.4
K306606		0.56	2.30	0.08	0.4	0.30	0.009	0.40	6.0	2.8	0.61	159	0.37	0.01	1.5	4.9
K306607		0.69	2.73	0.09	0.5	0.46	0.010	0.49	7.9	3.3	0.64	126	0.33	0.01	1.8	5.9
K306608		0.83	3.36	0.10	0.6	1.33	0.013	0.60	9.0	3.7	0.69	212	0.48	0.01	2.1	7.3
K306609		1.85	8.85	0.12	1.4	3.95	0.029	1.51	18.7	9.5	1.32	266	1.08	0.02	5.0	19.4
K306610		1.25	5.51	0.10	0.9	3.22	0.025	0.97	12.2	5.4	0.82	501	0.86	0.01	3.2	12.6
K306611		0.41	1.52	0.07	0.3	1.68	0.009	0.25	4.1	1.5	0.50	747	0.29	0.01	1.1	3.2
K306671		0.50	0.34	0.11	<0.1	0.01	<0.005	0.05	0.6	1.2	13.20	219	0.40	0.01	0.3	3.4
K306613		2.09	7.63	0.11	1.7	4.58	0.022	1.03	26.8	39.8	2.59	275	18.00	0.03	7.0	52.0
K306614		0.68	3.09	0.09	0.5	2.20	0.012	0.55	7.2	2.8	0.58	542	0.37	0.01	2.0	6.4
K306615		0.32	1.23	0.08	0.2	0.53	<0.005	0.20	3.7	1.3	0.66	244	0.24	0.01	0.9	2.4
K306616		0.92	2.96	0.10	0.5	0.90	0.011	0.53	8.7	3.0	0.61	354	0.36	0.01	2.0	7.0
K306617		1.93	7.12	0.12	1.2	1.87	0.025	1.27	15.5	7.4	1.12	704	0.97	0.02	4.2	16.8
K306618		2.29	10.20	0.14	1.8	2.06	0.034	1.81	22.8	10.9	1.07	513	1.56	0.03	5.9	21.4
K306619		3.00	11.80	0.15	1.9	1.47	0.044	2.09	25.3	11.9	1.97	659	2.73	0.03	6.6	27.9
K306620		2.03	7.84	0.13	1.4	0.72	0.028	1.43	18.7	6.7	1.19	455	1.72	0.02	4.6	18.2
K306621		2.20	9.73	0.13	1.7	0.76	0.037	1.69	21.4	9.1	1.22	383	2.10	0.02	5.6	21.7
K306622		2.26	9.35	0.13	1.5	1.17	0.033	1.64	22.1	10.5	1.62	325	2.01	0.02	5.2	20.7
K306623		0.56	0.89	0.06	0.1	0.75	<0.005	0.14	3.0	0.9	0.71	351	0.20	0.01	0.7	1.6
K306624		0.54	0.85	0.06	0.1	0.74	<0.005	0.13	3.0	0.9	0.70	339	0.20	0.01	0.7	2.1
K306625		0.43	1.12	0.06	0.2	0.54	<0.005	0.18	2.9	1.3	0.59	243	0.35	0.01	0.9	3.0
K306626		1.69	14.30	0.12	3.1	0.89	0.035	2.97	26.2	39.1	5.17	245	0.49	0.03	9.6	24.9
K306627		1.30	4.07	0.08	1.1	5.9	0.018	0.82	9.9	7.6	9.99	843	0.51	0.02	2.8	8.6
K306628		1.32	3.79	0.08	0.6	4.06	0.010	0.76	10.6	6.0	11.85	762	0.51	0.02	2.2	7.8
K306629		1.21	3.37	0.09	0.5	3.61	0.008	0.66	9.7	5.9	11.85	798	0.43	0.02	1.9	6.2
K306630		1.22	1.94	0.07	0.4	2.78	0.007	0.37	7.2	3.2	12.45	658	0.37	0.01	1.3	4.7
K306631		0.87	0.64	0.08	0.1	2.18	0.005	0.09	3.7	1.6	12.15	668	0.30	0.01	0.4	1.8
K306632		1.17	1.57	0.08	0.4	4.23	0.007	0.27	5.1	3.0	11.75	830	0.39	0.02	1.1	4.7
K306633		0.52	0.48	0.09	<0.1	0.01	<0.005	0.07	0.7	1.7	12.95	227	0.22	0.01	0.5	2.4
K306634		3.62	4.18	0.13	0.9	6.3	0.056	0.42	17.8	46.6	0.73	471	13.05	0.01	3.8	21.7
K306635		1.81	1.84	0.07	0.5	3.67	0.006	0.33	5.5	3.7	11.50	1190	0.29	0.02	1.3	4.9
K306636		0.78	1.52	0.08	0.4	2.82	<0.005	0.26	4.6	3.5	12.05	703	0.25	0.02	1.0	1.8
K306637		1.04	2.50	0.07	0.8	1.40	0.006	0.48	6.0	5.8	11.95	633	0.40	0.02	1.9	2.9
K306638		1.22	1.91	0.08	0.4	3.25	0.006	0.34	5.5	4.4	11.45	966	0.34	0.02	1.3	4.7
K306639		1.15	1.98	0.07	0.5	4.02	0.010	0.36	5.5	4.4	11.35	908	0.45	0.02	1.4	5.5
K306640		1.00	1.75	0.05	0.4	3.60	0.008	0.31	4.8	4.1	11.45	885	0.25	0.02	1.1	4.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12134650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306605		480	3.1	20.5	<0.002	0.67	0.33	3.4	2	0.3	2190	0.11	0.08	1.6	0.062	0.75
K306606		280	2.5	17.1	<0.002	0.52	0.22	2.4	2	0.3	2200	0.08	0.06	1.2	0.046	0.67
K306607		240	3.0	21.2	<0.002	0.70	0.23	3.2	2	0.3	2430	0.11	0.06	1.5	0.064	0.96
K306608		170	3.7	25.6	0.002	0.93	0.31	3.9	2	0.4	2020	0.13	0.09	1.9	0.079	2.38
K306609		230	8.5	70.2	0.004	2.02	0.82	8.9	2	1.0	1465	0.32	0.09	4.5	0.209	7.51
K306610		250	5.7	43.4	0.003	1.52	2.83	6.0	2	0.6	1225	0.20	0.09	3.0	0.126	5.75
K306611		380	1.8	10.5	<0.002	0.59	6.64	1.9	2	0.2	1515	0.06	0.08	0.8	0.030	3.61
K306671		190	1.3	2.3	<0.002	0.02	0.28	0.4	1	<0.2	44.5	<0.05	<0.05	<0.2	<0.005	0.02
K306613		920	36.3	47.6	0.024	1.60	108.0	5.5	4	2.4	72.6	0.44	0.23	5.9	0.175	3.97
K306614		430	3.5	24.0	<0.002	0.82	2.55	2.9	2	0.3	1410	0.12	0.06	1.7	0.065	4.36
K306615		310	1.4	9.0	<0.002	0.31	0.46	1.5	1	0.2	1885	<0.05	0.06	0.7	0.023	1.11
K306616		390	3.2	22.9	0.002	0.78	0.55	4.3	2	0.3	1975	0.11	0.07	1.6	0.069	1.73
K306617		240	7.1	55.4	0.003	1.76	2.15	8.4	2	0.8	1615	0.27	0.08	3.6	0.185	3.67
K306618		300	11.4	81.1	0.007	2.10	0.78	10.4	2	1.2	1510	0.40	0.09	5.7	0.229	4.50
K306619		320	16.4	91.0	0.011	2.68	1.11	12.0	3	1.4	1195	0.44	0.11	6.5	0.256	5.08
K306620		370	9.3	60.7	0.007	1.92	0.80	8.7	3	0.9	1620	0.31	0.09	4.3	0.175	3.38
K306621		490	10.7	74.1	0.009	2.19	0.73	9.6	3	1.1	1375	0.37	0.11	5.1	0.209	3.10
K306622		270	12.2	70.4	0.007	2.13	0.83	9.5	3	1.0	1405	0.35	0.08	5.1	0.190	2.98
K306623		460	1.9	5.8	<0.002	0.30	0.43	1.0	1	<0.2	1370	<0.05	0.07	0.4	0.016	0.99
K306624		460	1.9	5.6	<0.002	0.28	0.43	1.0	2	<0.2	1360	<0.05	0.07	0.4	0.015	0.97
K306625		700	2.4	7.8	0.002	0.35	0.38	1.3	2	<0.2	1945	<0.05	<0.05	0.6	0.022	0.72
K306626		680	15.1	102.5	<0.002	1.03	0.51	9.7	3	1.8	134.5	0.69	0.07	11.1	0.262	4.36
K306627		260	9.9	24.7	<0.002	1.34	5.51	3.0	2	0.6	111.5	0.19	0.05	3.2	0.072	9.28
K306628		160	10.6	21.2	<0.002	0.97	2.31	2.6	2	0.4	138.5	0.15	<0.05	2.5	0.059	13.40
K306629		170	8.6	19.1	0.002	0.83	2.31	2.5	2	0.4	144.0	0.12	<0.05	2.2	0.048	13.05
K306630		110	8.7	10.4	<0.002	0.84	2.09	1.5	1	0.3	119.5	0.09	<0.05	1.4	0.033	7.37
K306631		50	3.0	2.8	<0.002	0.40	1.88	0.7	1	<0.2	106.5	<0.05	<0.05	0.4	0.008	9.10
K306632		110	9.1	8.3	<0.002	0.86	2.62	1.3	2	0.2	124.0	0.07	0.05	1.2	0.027	11.35
K306633		180	1.1	4.3	<0.002	0.02	0.06	0.4	1	<0.2	47.1	<0.05	<0.05	0.2	0.006	0.05
K306634		690	20.8	25.2	0.006	2.10	165.5	4.5	3	2.1	50.2	0.25	0.52	3.4	0.114	3.69
K306635		130	9.4	10.2	<0.002	1.58	2.51	1.4	1	0.3	127.5	0.08	0.05	1.4	0.032	11.60
K306636		110	4.5	8.2	<0.002	0.36	1.81	1.1	1	0.2	99.4	0.07	<0.05	1.1	0.026	7.84
K306637		210	5.5	15.4	<0.002	0.52	0.62	1.7	2	0.3	92.5	0.12	0.05	2.0	0.045	4.32
K306638		120	8.1	11.0	<0.002	0.55	2.29	1.3	2	0.3	91.8	0.08	0.05	1.3	0.032	8.65
K306639		130	10.5	11.0	<0.002	0.93	3.98	1.4	2	0.3	104.0	0.09	<0.05	1.5	0.036	9.83
K306640		140	7.0	9.7	<0.002	0.83	3.49	1.2	2	0.3	102.5	0.07	<0.05	1.2	0.029	10.70





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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12134650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
K306605		1.8	19	1.2	13.7	17	18.4	
K306606		1.8	16	0.9	11.4	14	13.1	
K306607		2.0	20	1.4	13.3	16	17.0	
K306608		2.2	23	1.8	13.1	20	19.8	
K306609		3.1	61	5.1	22.9	41	46.2	
K306610		2.2	37	3.2	14.3	21	30.4	
K306611		1.8	11	0.9	9.3	9	9.1	
K306671		0.5	2	0.1	0.8	15	0.5	
K306613		8.3	235	27.4	19.5	217	59.7	
K306614		2.0	19	1.6	10.7	19	16.8	
K306615		1.5	9	0.5	8.1	8	7.9	
K306616		1.8	22	1.2	15.3	17	19.9	
K306617		2.3	54	3.1	19.2	44	43.2	
K306618		3.0	70	2.0	21.8	59	61.3	
K306619		3.9	84	1.3	22.4	65	65.6	
K306620		3.7	55	1.7	24.0	44	46.0	
K306621		3.6	67	2.3	21.5	53	56.6	
K306622		3.8	62	1.9	20.6	40	51.7	
K306623		1.1	6	0.4	6.2	3	5.8	
K306624		1.1	8	0.4	6.2	2	5.7	
K306625		1.8	8	0.6	6.0	5	7.1	
K306626		5.4	99	1.9	16.0	28	108.5	
K306627		7.3	29	1.8	6.6	22	36.3	1.220
K306628		10.1	23	1.6	4.7	20	19.7	
K306629		9.2	19	1.3	4.6	60	16.2	
K306630		6.9	13	0.9	4.2	3	14.0	
K306631		6.2	7	0.4	3.0	21	3.1	
K306632		11.9	14	1.0	3.6	5	14.5	
K306633		0.6	4	0.1	0.9	20	0.6	
K306634		3.3	113	228	16.9	80	30.2	
K306635		9.4	14	1.9	3.7	4	15.7	
K306636		9.2	12	0.8	3.3	4	15.0	
K306637		8.8	16	1.2	4.8	4	27.9	
K306638		14.6	15	1.1	3.5	6	13.9	
K306639		16.6	16	1.3	3.9	5	18.2	
K306640		12.3	15	0.9	3.5	6	14.8	



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**CERTIFICATE OF ANALYSIS WH12134650**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12138338**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 038  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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To: ATAC RESOURCES LTD.  
 C/O ARCHER, CATHRO & ASSOCIATES (1981)  
 LIMITED  
 1016- 510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

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 Plus Appendix Pages  
 Finalized Date: 3- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12138338**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306523		11.60	0.01	0.06	5.86	214	200	1.61	0.23	2.16	0.24	66.4	14.6	60	21.6	41.0
K306524		5.40	<0.01	0.11	4.79	179.0	170	1.17	0.19	2.62	0.13	52.7	10.2	55	14.95	31.9
K306525		8.18	0.01	0.06	5.67	1160	170	1.56	0.21	2.24	0.08	61.3	11.6	54	21.8	34.2
K306526		9.39	<0.01	0.03	5.62	124.0	170	1.72	0.23	2.35	0.17	60.5	12.6	55	23.7	36.3
K306527		9.12	<0.01	0.04	5.04	113.0	150	1.30	0.19	2.70	0.12	61.1	10.9	51	22.4	30.8
K306528		3.91	0.01	0.03	5.15	108.5	150	1.52	0.20	2.96	0.10	55.9	11.6	51	20.6	32.7
K306529		7.84	0.01	<0.01	2.34	72	90	0.81	0.06	25.2	0.02	27.8	7.7	25	10.95	19.0
K306530		6.86	<0.01	0.03	8.29	443	210	2.46	0.34	2.71	0.21	77.6	36.4	80	37.3	64.8
K306531		5.48	3.79	0.01	6.10	5820	200	1.14	0.23	0.69	0.23	68.1	14.6	68	21.5	46.9
K306532		6.93	0.01	<0.01	0.06	5	20	0.05	<0.01	20.8	0.05	1.58	1.1	2	0.27	1.6
K306533		11.53	0.22	<0.01	6.55	289	190	1.46	0.24	2.36	0.08	64.3	16.7	62	19.85	52.0
K306534		11.34	0.44	<0.01	6.06	832	170	1.59	0.23	2.20	0.15	63.7	16.6	62	20.5	43.7
K306535		11.32	0.02	<0.01	5.96	215	170	1.70	0.23	2.41	0.11	61.5	16.1	61	24.1	43.7
K306536		0.21	2.57	1.07	3.40	621	870	0.85	0.29	8.08	2.23	47.9	6.9	56	3.95	44.0
K306537		11.36	0.19	<0.01	6.38	332	180	1.83	0.26	2.54	0.27	62.8	17.7	66	22.8	45.3
K306538		5.55	0.07	0.02	0.46	230	40	0.27	0.01	19.25	0.04	5.80	1.4	5	0.90	4.4
K306539		5.61	0.08	0.02	0.75	325	60	0.38	0.02	18.70	0.04	5.86	1.6	7	2.01	5.4
K306540		11.23	0.04	0.05	0.76	161	30	0.36	0.03	19.00	0.03	5.97	2.1	9	2.09	8.4
K306541		6.15	0.94	0.33	1.98	992	110	0.55	0.05	14.20	0.18	25.0	3.4	19	4.15	12.3
K306542		4.40	0.32	0.08	1.95	466	90	0.63	0.05	14.45	0.03	24.9	3.9	18	4.08	8.4
K306543		5.19	0.41	0.38	0.98	1050	70	0.30	0.03	20.5	0.03	13.10	2.4	14	1.94	9.1
K306544		9.91	0.89	0.27	0.91	886	70	0.31	0.03	19.25	0.10	12.85	2.2	14	1.72	8.3
K306545		5.00	1.29	0.12	1.17	1260	60	0.36	0.03	16.75	0.04	17.20	2.8	11	2.39	8.2
K306546		11.72	0.37	0.07	1.25	486	50	0.42	0.04	18.60	0.07	14.90	3.0	11	3.05	8.9
K306547		10.93	0.33	0.03	1.07	192	50	0.37	0.03	18.85	0.06	14.45	2.5	8	2.40	9.2
K306548		<0.02	0.32	0.03	1.03	181	40	0.34	0.03	18.30	0.06	13.75	2.5	9	2.31	8.4
K306549		7.44	0.68	0.03	1.39	304	80	0.44	0.04	18.70	0.09	16.25	3.2	14	3.52	9.4
K306550		9.32	5.09	0.05	1.71	5940	50	0.39	0.04	16.40	0.12	16.85	2.9	16	2.99	8.7
K306701		6.08	5.14	0.05	1.27	>10000	40	0.33	0.05	17.25	0.05	19.25	2.5	13	3.03	14.0
K306702		8.03	8.87	0.11	4.46	9390	150	1.12	0.12	9.37	0.28	49.1	8.3	40	11.55	25.8
K306703		6.98	0.01	<0.01	0.09	40	20	0.06	0.04	20.6	0.07	1.20	1.3	2	0.20	1.7
K306704		7.81	1.31	0.03	2.92	1520	100	0.90	0.07	22.1	0.06	33.6	5.6	25	9.31	12.3
K306705		8.93	0.03	0.02	3.61	140	120	1.22	0.08	20.9	0.05	41.2	5.7	29	14.55	14.3
K306706		0.23	4.24	0.78	3.17	519	820	0.60	0.47	10.40	0.57	42.5	5.3	47	2.64	34.6
K306707		4.47	0.09	0.02	4.56	215	180	1.76	0.10	12.70	0.05	49.7	7.1	38	19.25	18.3
K306708		4.25	0.47	0.03	3.67	978	140	1.31	0.08	16.80	0.09	40.7	6.1	32	13.30	17.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12138338**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K306523		4.16	15.50	0.10	2.8	3.77	0.069	2.66	32.8	22.0	1.07	387	1.17	0.02	9.5	29.1
K306524		3.49	11.75	0.07	2.4	3.15	0.044	2.11	30.0	17.1	1.11	520	0.63	0.02	6.8	23.2
K306525		4.35	13.70	0.11	2.6	3.81	0.067	2.45	33.7	25.0	1.13	395	0.81	0.02	8.5	27.2
K306526		4.22	14.80	0.11	2.6	1.22	0.061	2.58	29.5	29.6	1.19	386	0.68	0.02	8.6	28.0
K306527		3.67	12.10	0.10	2.5	1.56	0.057	2.24	31.2	23.0	1.15	340	0.83	0.02	8.1	23.9
K306528		3.57	12.85	0.10	2.3	1.45	0.055	2.30	31.8	24.1	1.33	347	0.62	0.02	7.7	25.3
K306529		1.74	5.90	0.06	0.9	0.72	0.026	1.09	14.4	6.6	1.04	673	0.36	0.01	3.1	15.2
K306530		4.76	23.1	0.14	3.1	3.72	0.097	3.78	41.5	27.9	1.58	688	2.62	0.03	10.8	77.3
K306531		4.27	16.30	0.11	3.0	6.73	0.058	2.72	33.6	15.9	0.58	285	0.42	0.01	9.3	31.5
K306532		0.48	0.23	<0.05	<0.1	0.01	0.005	0.03	0.8	0.9	13.15	223	0.07	<0.01	0.3	2.7
K306533		4.74	18.45	0.25	3.0	2.00	0.057	2.84	31.2	15.9	1.40	804	0.39	0.03	10.8	31.5
K306534		4.59	16.20	0.24	2.8	2.49	0.053	2.60	30.8	16.2	1.22	893	0.42	0.02	9.6	30.8
K306535		4.21	16.65	0.24	2.6	1.24	0.057	2.58	30.3	22.2	1.29	689	0.32	0.02	9.5	29.1
K306536		2.14	8.08	0.19	1.7	4.44	0.026	1.01	29.6	44.3	2.63	289	17.65	0.03	7.2	52.0
K306537		4.70	17.00	0.23	2.7	1.6	0.065	2.81	31.1	19.6	1.39	818	0.38	0.03	10.0	32.4
K306538		0.41	1.26	0.19	0.2	0.59	<0.005	0.20	3.2	3.5	11.80	296	0.19	0.01	0.9	2.8
K306539		0.39	2.10	0.23	0.4	0.54	0.005	0.34	3.1	5.5	11.40	272	0.16	0.01	1.3	3.6
K306540		0.48	2.16	0.18	0.3	1.36	0.006	0.35	3.4	5.4	11.55	313	0.44	0.01	1.3	5.2
K306541		1.29	5.13	0.15	1.8	3.99	0.017	0.77	12.7	11.3	8.62	523	1.26	0.01	3.5	8.3
K306542		0.80	4.92	0.17	2.0	2.08	0.015	0.84	12.4	12.5	9.38	365	0.85	0.02	3.5	8.1
K306543		0.63	2.45	0.17	0.5	2.12	0.008	0.42	7.5	5.9	12.55	462	0.41	0.02	1.7	6.2
K306544		0.67	2.35	0.16	0.5	3.37	0.008	0.37	7.3	6.2	11.75	524	0.57	0.02	1.6	5.6
K306545		0.65	3.10	0.16	0.8	4.02	0.010	0.51	9.5	7.2	10.15	541	0.82	0.01	2.2	5.8
K306546		0.53	3.40	0.22	0.7	1.78	0.008	0.57	8.6	6.7	11.10	506	0.39	0.01	2.1	7.1
K306547		0.52	2.95	0.20	0.5	1.69	0.009	0.47	8.5	5.6	11.05	1360	0.51	0.01	1.7	5.9
K306548		0.50	2.94	0.22	0.5	1.74	0.009	0.45	8.1	5.3	10.70	1300	0.49	0.01	1.7	5.9
K306549		0.65	3.88	0.23	0.7	2.05	0.013	0.64	9.3	6.2	10.55	1460	0.56	0.01	2.3	8.0
K306550		1.13	4.65	0.15	1.0	11.4	0.016	0.72	9.0	6.0	8.70	3830	0.84	0.01	2.6	7.2
K306701		1.42	3.69	0.13	0.7	14.3	0.021	0.58	10.2	4.8	8.79	3150	0.59	0.01	2.2	5.8
K306702		1.99	12.15	0.16	2.3	20.9	0.034	2.10	26.1	17.5	4.33	2920	1.14	0.02	7.2	20.7
K306703		0.45	0.37	0.31	<0.1	0.04	<0.005	0.03	0.6	0.9	12.75	222	0.05	<0.01	0.3	3.1
K306704		1.14	7.44	0.17	1.0	3.49	0.021	1.43	17.8	11.3	1.62	446	0.55	0.01	3.9	13.1
K306705		1.33	9.17	0.18	1.3	1.36	0.022	1.86	22.0	14.4	2.45	250	0.51	0.02	4.9	12.4
K306706		1.91	7.14	0.18	1.4	4.76	0.028	0.90	25.0	51.1	5.26	380	9.42	0.02	5.9	31.2
K306707		1.54	11.30	0.20	2.6	2.03	0.028	2.50	26.0	19.2	3.10	294	0.66	0.03	6.4	16.0
K306708		1.30	9.24	0.17	2.2	3.0	0.022	1.98	21.4	14.4	2.85	390	0.67	0.02	5.6	13.8



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12138338**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306523		630	25.9	117.0	<0.002	3.41	1.23	13.3	1	2.2	91.1	0.82	<0.05	12.1	0.394	6.80
K306524		510	26.7	84.0	<0.002	2.28	1.01	10.0	1	1.7	124.0	0.66	<0.05	9.6	0.313	4.11
K306525		450	32.1	109.5	<0.002	3.61	1.12	11.5	1	2.0	88.3	0.76	0.05	11.0	0.342	6.54
K306526		470	25.2	112.5	<0.002	3.50	0.60	12.9	1	1.8	74.8	0.76	<0.05	12.8	0.375	2.22
K306527		460	19.4	101.0	<0.002	2.80	0.47	10.4	1	1.9	82.1	0.71	0.05	10.6	0.335	2.54
K306528		470	22.4	97.3	<0.002	2.75	0.45	10.9	1	1.8	74.9	0.69	<0.05	11.6	0.338	2.51
K306529		400	7.3	53.4	<0.002	0.81	0.29	5.9	1	0.7	821	0.24	<0.05	3.7	0.124	0.97
K306530		420	56.4	180.0	0.007	4.29	3.69	20.8	2	2.7	110.5	0.91	0.08	14.5	0.430	11.40
K306531		440	21.8	129.5	<0.002	4.36	41.5	12.1	1	2.0	114.5	0.85	0.09	11.9	0.438	29.5
K306532		170	1.5	1.7	<0.002	0.01	0.08	0.3	<1	<0.2	50.5	<0.05	<0.05	<0.2	<0.005	0.04
K306533		480	15.8	145.5	<0.002	4.33	4.02	17.5	2	2.1	95.2	0.76	0.05	9.8	0.445	5.00
K306534		490	18.1	134.0	<0.002	4.08	8.44	16.2	2	1.9	94.6	0.69	0.06	9.7	0.405	7.92
K306535		430	16.8	134.5	<0.002	3.56	1.11	15.7	1	1.9	105.0	0.67	0.05	9.3	0.379	3.98
K306536		930	35.7	49.6	0.024	1.55	108.5	5.4	4	2.5	73.7	0.45	0.19	6.4	0.172	3.81
K306537		440	18.0	138.0	<0.002	4.02	3.21	16.6	2	2.1	101.5	0.69	0.05	9.7	0.414	5.02
K306538		100	5.8	6.4	<0.002	0.02	0.57	0.8	1	0.2	86.6	0.05	<0.05	0.9	0.019	2.22
K306539		140	6.5	10.9	<0.002	0.01	0.81	1.2	1	0.3	92.6	0.08	<0.05	1.4	0.030	3.91
K306540		250	8.3	11.3	<0.002	0.06	0.46	1.2	1	0.3	95.6	0.08	<0.05	1.4	0.030	2.96
K306541		490	14.5	26.0	0.004	0.25	1.96	3.2	2	0.7	150.5	0.24	<0.05	4.4	0.087	7.86
K306542		360	10.8	28.3	0.002	0.34	1.15	3.2	2	0.6	124.0	0.26	<0.05	4.6	0.090	6.29
K306543		280	11.0	13.0	<0.002	0.10	1.40	1.6	1	0.3	134.5	0.11	<0.05	2.0	0.042	5.29
K306544		280	13.2	12.0	0.002	0.34	1.52	1.6	1	0.4	146.0	0.10	<0.05	1.9	0.039	7.97
K306545		260	9.8	17.7	0.002	0.30	0.77	2.2	2	0.5	105.0	0.15	<0.05	2.5	0.050	7.74
K306546		290	7.3	19.2	0.002	0.41	0.98	2.0	1	0.4	106.0	0.14	<0.05	2.6	0.050	5.90
K306547		210	7.0	16.3	0.003	0.47	0.70	1.9	1	0.3	100.5	0.12	<0.05	2.0	0.039	4.04
K306548		200	6.5	15.7	0.003	0.45	0.66	1.7	1	0.4	97.1	0.11	<0.05	1.9	0.038	3.80
K306549		250	7.4	22.1	0.002	0.52	0.55	2.2	2	0.5	114.5	0.16	<0.05	2.6	0.057	4.96
K306550		230	12.8	24.7	0.002	0.99	2.74	2.9	2	0.8	96.6	0.18	<0.05	3.2	0.066	32.9
K306701		260	12.2	20.5	0.002	1.42	3.85	2.5	2	0.7	82.5	0.15	<0.05	2.7	0.053	48.1
K306702		560	22.9	81.3	0.002	1.88	3.64	6.9	2	1.7	136.0	0.51	<0.05	8.8	0.184	58.7
K306703		170	1.3	1.4	<0.002	0.02	0.05	0.2	1	<0.2	47.6	<0.05	<0.05	<0.2	<0.005	0.07
K306704		330	8.8	55.9	0.002	0.66	0.59	4.2	1	0.8	600	0.28	<0.05	5.1	0.099	10.50
K306705		430	6.6	73.0	<0.002	0.35	0.37	5.3	2	0.9	536	0.35	<0.05	6.4	0.125	4.64
K306706		580	9.7	46.8	0.009	1.55	99.1	4.6	3	2.8	60.3	0.39	0.22	6.4	0.158	2.57
K306707		630	8.4	94.1	<0.002	0.43	0.45	6.4	2	1.2	258	0.46	<0.05	8.7	0.175	5.10
K306708		570	8.1	73.2	<0.002	0.43	0.50	5.3	2	1.0	346	0.39	<0.05	7.1	0.141	8.08



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12138338**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.1	1	0.1	0.1	2	0.5	0.001
K306523		2.5	97	5.6	23.4	135	93.9	
K306524		2.0	84	5.3	17.7	62	79.9	
K306525		2.2	87	4.9	20.4	63	88.3	
K306526		2.6	90	2.3	20.8	112	85.6	
K306527		2.1	80	1.8	19.7	80	81.6	
K306528		2.7	82	1.7	19.2	86	83.4	
K306529		2.2	39	0.5	12.4	25	40.1	
K306530		3.8	143	4.7	24.8	238	104.5	
K306531		2.3	118	6.5	21.5	72	95.2	
K306532		0.5	3	0.1	1.0	17	0.5	
K306533		2.0	124	6.2	22.1	67	99.3	
K306534		2.0	113	6.1	20.8	79	89.2	
K306535		1.9	109	2.5	20.0	78	85.9	
K306536		8.3	242	26.8	20.8	220	61.0	
K306537		2.0	120	4.1	21.1	111	91.1	
K306538		5.0	9	0.4	2.3	20	8.2	
K306539		5.6	14	0.5	2.5	21	14.0	
K306540		7.2	13	0.5	2.8	7	11.2	
K306541		8.6	48	1.8	8.8	24	62.6	
K306542		6.4	33	1.5	8.9	8	69.0	
K306543		9.2	35	1.0	4.9	13	17.0	
K306544		12.6	26	1.2	4.7	30	15.1	
K306545		9.4	24	1.0	6.2	21	28.6	
K306546		10.7	28	1.0	5.8	15	23.1	
K306547		12.7	21	0.9	5.3	16	15.7	
K306548		12.0	20	0.9	5.2	17	15.8	
K306549		12.0	25	1.0	6.3	45	25.0	
K306550		21.0	29	1.8	5.3	34	33.5	
K306701		15.6	24	1.3	5.6	7	22.4	1.615
K306702		17.4	71	4.1	13.4	107	80.7	
K306703		0.5	3	0.1	0.8	18	<0.5	
K306704		15.4	43	2.1	9.8	39	32.9	
K306705		11.2	50	2.1	10.6	33	46.0	
K306706		5.5	102	69.9	15.1	74	48.1	
K306707		9.0	64	3.2	13.3	37	90.9	
K306708		13.5	52	2.7	13.2	27	75.8	



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12138338**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12145884**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 039  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 23- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12145884**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666959		6.89	0.03	0.04	5.06	24	270	1.46	0.13	17.75	0.03	53.6	7.3	40	28.5	23.5
M666960		5.54	<0.01	0.05	2.79	30	150	0.87	0.08	27.1	0.03	30.1	4.3	24	12.85	17.4
M666961		2.41	<0.01	0.05	2.49	19	610	0.84	0.06	21.3	0.05	28.9	4.9	24	11.45	14.9
M666962		8.01	<0.01	0.04	4.13	37	540	1.21	0.09	12.20	0.04	43.8	5.7	35	20.9	17.5
M666963		0.20	0.33	0.30	6.31	649	210	0.57	0.29	0.48	0.18	136.0	2.9	233	3.23	30.1
M666964		7.26	<0.01	0.12	5.60	81	380	1.89	0.14	10.20	<0.02	60.5	8.8	51	31.9	29.2
M666965		7.68	0.03	0.06	1.11	50	1160	0.50	0.04	20.9	0.03	14.60	1.8	13	3.91	6.5
M666966		7.71	<0.01	0.08	2.97	87	770	1.04	0.08	12.40	0.05	30.1	4.1	30	11.50	13.4
M666967		3.26	<0.01	0.05	2.86	98	880	0.92	0.07	12.60	0.08	31.2	3.4	30	10.90	12.7
M666968		4.40	<0.01	0.05	0.59	19	60	0.27	0.02	32.7	0.19	12.65	1.4	8	1.86	6.1
M666969		4.90	<0.01	0.03	0.07	<5	20	0.06	0.02	22.5	0.05	1.16	0.7	1	0.48	3.3
M666970		7.65	<0.01	0.06	1.76	32	370	0.60	0.05	25.3	0.10	22.6	2.9	19	6.52	12.9
M666971		4.45	0.02	0.09	1.41	176	240	0.60	0.04	29.4	0.09	16.65	1.8	17	3.84	8.4
M666972		7.51	<0.01	0.07	3.24	135	130	1.22	0.08	17.90	0.05	33.4	4.3	30	11.85	13.0
M666973		3.15	<0.01	0.04	3.25	136	120	1.17	0.08	18.90	0.05	35.7	4.3	30	12.15	14.6
M666974		5.56	<0.01	0.08	4.79	145	160	2.02	0.12	10.30	0.06	51.5	7.7	44	23.7	21.1
M666975		7.84	0.39	0.14	0.61	1020	30	0.26	0.02	22.1	0.15	11.35	1.4	8	1.34	7.5
M666976		8.12	<0.01	0.12	1.48	113	110	0.59	0.06	20.3	0.50	16.55	2.6	13	4.23	13.4
M666977		7.87	<0.01	0.12	0.99	39	50	0.47	0.04	19.45	<0.02	13.30	1.8	9	4.29	7.0
M666978		7.69	0.08	0.12	1.79	2110	70	0.71	0.04	16.90	0.72	22.3	2.9	16	4.82	11.2
M666979		7.72	0.12	0.09	0.71	3750	40	0.33	0.02	20.5	<0.02	10.05	1.3	7	1.29	5.5
M666980		0.17	0.39	0.41	6.80	683	400	0.66	0.27	0.71	0.16	148.0	4.0	241	3.46	17.0
M666981		7.79	0.23	0.07	1.37	2220	50	0.55	0.04	19.60	0.03	16.65	2.0	11	2.78	8.2
M666982		7.60	0.23	0.15	2.17	4380	70	0.47	0.06	15.00	0.03	24.0	3.0	21	4.08	12.3
M666983		7.94	0.64	0.08	0.79	2200	50	0.24	0.02	21.4	0.03	11.05	1.2	9	1.19	5.1
M666984		7.23	0.31	0.06	0.46	271	30	0.15	0.02	21.1	0.08	9.10	0.9	6	0.50	4.2
M666985		4.89	<0.01	0.02	0.12	<5	20	0.05	0.09	22.0	0.06	1.14	0.7	4	0.39	3.5
M666986		6.98	0.18	0.08	0.73	471	40	0.23	0.03	19.85	0.08	11.60	1.3	8	1.22	5.3
M666987		5.56	0.56	0.09	0.31	726	30	0.14	0.02	20.3	0.35	6.40	0.5	5	0.30	3.3
M666988		5.86	0.19	0.06	0.78	567	30	0.27	0.02	20.3	0.05	10.85	1.3	8	1.50	4.9
M666989		<0.02	0.20	0.07	0.77	548	30	0.31	0.03	20.0	0.04	10.35	1.3	8	1.48	4.8
M666990		4.88	0.12	0.18	0.79	2510	30	0.28	0.03	20.6	0.02	9.82	1.4	8	1.69	5.0
M666991		3.57	0.08	0.07	1.05	44	70	0.41	0.03	19.45	0.02	12.85	1.5	9	2.40	7.3
M666992		7.51	0.07	0.09	1.77	110	200	0.67	0.04	16.90	0.04	21.8	2.5	17	3.91	10.2
M666993		8.23	0.14	0.08	1.46	231	1000	0.56	0.04	17.65	0.09	21.2	2.3	15	2.88	10.7
M666994		6.61	0.07	0.09	0.86	44	60	0.38	0.02	18.65	0.03	14.60	1.4	9	1.74	6.2



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12145884**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M666959		1.90	12.80	0.18	1.5	0.15	0.025	2.74	28.3	26.3	2.33	229	0.70	0.02	5.8	22.7
M666960		1.14	6.71	0.15	1.0	0.1	0.013	1.46	16.8	12.5	2.28	240	0.76	0.02	3.4	12.4
M666961		1.49	6.41	0.13	1.1	0.10	0.013	1.33	15.7	12.0	3.42	295	0.63	0.02	3.2	12.9
M666962		1.66	9.78	0.15	2.0	0.1	0.025	2.27	22.1	20.2	6.47	316	0.69	0.03	5.0	16.0
M666963		6.79	20.7	0.25	4.4	8.6	0.041	1.39	68.5	18.0	0.13	38	6.02	0.38	9.2	16.6
M666964		1.62	14.60	0.20	2.1	0.36	0.029	3.05	32.4	29.2	6.00	294	1.11	0.03	7.3	23.9
M666965		0.82	2.91	0.13	0.8	0.5	0.006	0.57	8.5	4.2	10.25	396	0.85	0.01	1.7	5.0
M666966		1.32	7.42	0.14	2.8	0.39	0.015	1.59	16.4	12.1	6.32	264	1.10	0.03	4.4	10.1
M666967		1.46	6.93	0.18	3.1	0.3	0.019	1.54	16.9	13.2	5.87	304	1.07	0.03	4.3	9.6
M666968		0.44	1.52	0.12	0.4	0.09	<0.005	0.31	7.1	2.8	1.09	129	0.43	0.01	0.8	3.7
M666969		0.51	0.22	0.12	<0.1	<0.1	<0.005	0.04	0.5	1.3	13.35	229	0.11	<0.01	0.2	2.3
M666970		0.73	4.43	0.16	1.5	0.23	0.014	0.93	11.7	8.5	3.37	205	0.69	0.02	2.6	7.0
M666971		0.67	3.44	0.15	0.9	0.68	0.009	0.74	9.3	6.2	1.69	181	0.47	0.01	2.0	5.3
M666972		1.02	7.67	0.17	2.4	0.50	0.020	1.69	18.3	20.0	1.95	192	0.59	0.02	4.0	10.5
M666973		1.09	7.82	0.18	2.2	0.57	0.019	1.67	18.5	19.6	2.02	205	0.64	0.02	4.1	10.4
M666974		1.61	12.45	0.16	2.7	0.67	0.030	2.58	26.5	35.7	2.89	216	1.20	0.03	6.3	18.5
M666975		1.17	1.49	0.16	0.3	1.87	<0.005	0.29	7.3	3.8	12.00	970	0.47	0.02	0.9	4.7
M666976		1.27	3.63	0.12	0.9	0.5	0.010	0.76	9.7	7.8	11.30	744	0.71	0.02	2.3	7.1
M666977		0.79	2.46	0.15	0.7	0.18	0.007	0.52	7.8	6.1	10.85	395	0.90	0.02	1.5	5.5
M666978		0.90	4.64	0.14	1.3	1.3	0.016	0.92	11.5	11.0	9.66	366	1.07	0.02	2.8	8.0
M666979		0.37	1.87	0.16	0.4	1.02	0.006	0.35	6.1	4.4	12.00	294	0.68	0.01	1.1	4.1
M666980		6.62	21.5	0.28	4.5	10.3	0.050	1.48	72.8	18.7	0.14	16	5.31	0.42	9.5	13.9
M666981		0.72	3.34	0.15	0.9	1.82	0.008	0.68	9.5	7.0	11.35	421	0.79	0.02	2.0	5.7
M666982		1.14	5.13	0.15	1.7	1.3	0.013	1.02	12.5	10.1	8.45	642	0.92	0.02	3.5	7.8
M666983		1.20	1.97	0.13	0.5	2.18	0.005	0.36	6.7	4.0	12.00	1040	1.05	0.02	1.1	3.9
M666984		1.16	1.16	0.13	0.3	0.94	<0.005	0.21	5.5	2.1	11.45	998	0.77	0.01	0.6	2.5
M666985		0.49	0.30	0.15	<0.1	<0.01	<0.005	0.06	0.6	1.6	13.05	223	0.20	0.01	0.1	2.3
M666986		1.00	1.82	0.15	0.5	1.07	0.006	0.34	6.9	3.9	10.95	778	0.63	0.02	1.1	3.7
M666987		0.96	0.83	0.12	0.2	2.41	<0.005	0.14	3.8	1.7	11.40	908	0.60	0.01	0.4	1.8
M666988		0.93	1.97	0.16	0.5	1.49	<0.005	0.38	6.4	4.0	11.45	766	0.84	0.02	1.1	3.6
M666989		0.91	2.00	0.14	0.5	1.47	0.005	0.37	6.0	4.1	11.30	759	0.81	0.02	1.1	3.2
M666990		0.37	2.01	0.14	0.5	0.92	0.005	0.38	6.0	4.4	12.00	341	0.79	0.01	1.1	4.1
M666991		0.37	2.66	0.16	0.7	0.8	0.005	0.51	7.7	5.3	11.40	274	0.71	0.01	1.6	4.4
M666992		0.71	4.15	0.17	1.4	0.8	0.010	0.85	12.5	8.0	9.74	295	1.11	0.01	2.7	6.4
M666993		0.86	3.65	0.17	1.2	1.47	0.012	0.68	11.8	7.1	10.20	332	0.78	0.01	2.2	5.3
M666994		0.63	2.21	0.18	0.7	1.22	0.006	0.44	8.5	4.2	10.75	323	0.57	0.01	1.3	3.9

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12145884**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666959		520	11.6	90.2	0.003	0.93	0.29	7.7	1	1.3	480	0.48	<0.05	9.2	0.184	0.55
M666960		390	6.9	43.0	<0.002	0.42	0.20	4.2	1	0.7	633	0.29	<0.05	5.1	0.104	0.36
M666961		360	6.7	40.2	<0.002	0.63	0.23	3.7	<1	0.8	443	0.23	<0.05	4.6	0.097	0.45
M666962		560	7.6	68.1	<0.002	0.73	0.31	5.8	1	1.0	143.5	0.43	<0.05	7.8	0.162	0.64
M666963		950	16.1	44.5	0.004	3.18	107.5	15.4	1	2.8	529	0.77	0.06	10.2	0.559	7.42
M666964		950	11.1	94.0	<0.002	0.99	0.45	8.7	1	1.5	137.0	0.58	<0.05	10.6	0.221	1.45
M666965		260	3.6	16.9	<0.002	0.26	0.30	1.8	1	0.4	150.5	0.13	<0.05	2.4	0.050	1.35
M666966		380	6.5	46.5	<0.002	0.36	0.27	4.3	1	1.0	162.0	0.41	<0.05	7.0	0.141	1.16
M666967		350	7.3	47.3	<0.002	0.36	0.24	4.2	1	1.0	169.5	0.36	<0.05	6.6	0.133	1.15
M666968		250	3.3	9.1	<0.002	0.35	0.10	1.0	<1	0.3	1060	0.07	<0.05	1.2	0.026	0.33
M666969		210	1.2	2.0	<0.002	0.02	0.05	0.3	<1	0.2	45.6	<0.05	<0.05	<0.2	<0.005	0.03
M666970		360	5.8	28.4	0.002	0.29	0.25	2.8	1	0.7	546	0.22	<0.05	4.0	0.081	0.72
M666971		350	4.8	22.2	<0.002	0.24	0.74	2.1	1	0.5	561	0.17	<0.05	3.0	0.062	0.70
M666972		440	6.5	51.5	<0.002	0.40	0.39	4.4	1	0.9	305	0.34	<0.05	6.3	0.129	1.66
M666973		450	6.9	53.5	<0.002	0.38	0.42	4.4	<1	0.9	320	0.35	<0.05	6.3	0.129	1.77
M666974		620	10.2	89.4	<0.002	0.80	0.53	7.3	2	1.3	168.5	0.51	<0.05	9.5	0.192	2.36
M666975		180	7.8	8.8	<0.002	0.49	0.44	1.0	<1	0.3	103.0	0.07	<0.05	1.2	0.025	4.90
M666976		230	11.7	21.5	<0.002	0.50	0.51	2.3	<1	0.5	103.5	0.18	<0.05	3.1	0.066	1.73
M666977		220	9.7	15.6	<0.002	0.42	0.23	1.5	<1	0.4	96.8	0.14	<0.05	2.3	0.047	0.96
M666978		300	11.0	29.6	<0.002	0.70	1.11	2.9	1	0.6	107.5	0.23	<0.05	4.1	0.082	3.26
M666979		150	7.1	10.7	<0.002	0.48	0.86	1.2	<1	0.3	89.8	0.09	<0.05	1.5	0.031	2.21
M666980		1020	14.2	48.7	<0.002	3.43	118.5	16.1	1	2.2	571	0.80	0.12	10.6	0.572	8.16
M666981		230	8.0	20.9	<0.002	0.65	0.78	2.1	1	0.5	106.0	0.16	<0.05	3.0	0.061	3.78
M666982		570	9.6	30.2	<0.002	0.83	0.77	3.1	<1	0.7	80.0	0.27	<0.05	4.9	0.102	3.31
M666983		260	6.9	10.7	<0.002	0.63	1.77	1.3	<1	0.3	127.5	0.09	<0.05	1.6	0.033	7.08
M666984		150	5.7	5.9	0.002	0.29	1.14	0.7	<1	0.3	116.0	0.05	<0.05	0.9	0.017	2.34
M666985		200	1.3	2.7	<0.002	0.01	0.07	0.3	<1	<0.2	45.5	<0.05	<0.05	<0.2	<0.005	0.06
M666986		300	4.6	9.9	<0.002	0.33	0.70	1.2	<1	0.3	109.0	0.09	<0.05	1.6	0.031	2.17
M666987		160	3.2	4.2	<0.002	0.27	0.81	0.6	<1	0.2	117.5	<0.05	<0.05	0.6	0.012	3.33
M666988		190	5.3	11.2	0.002	0.38	0.81	1.3	1	0.4	105.5	0.08	<0.05	1.6	0.033	2.68
M666989		190	5.5	10.7	<0.002	0.37	0.82	1.3	<1	0.3	104.5	0.08	<0.05	1.6	0.032	2.75
M666990		150	6.3	11.5	0.004	0.45	0.59	1.2	<1	0.3	85.1	0.10	<0.05	1.6	0.034	2.05
M666991		190	4.9	15.3	<0.002	0.32	0.32	1.6	<1	0.4	83.9	0.13	<0.05	2.3	0.048	1.38
M666992		350	6.5	23.4	<0.002	0.50	0.29	2.5	1	0.6	101.5	0.22	<0.05	4.0	0.080	1.49
M666993		270	5.4	20.4	<0.002	0.66	0.33	2.3	<1	0.6	145.5	0.17	<0.05	3.2	0.067	1.64
M666994		290	3.8	12.3	<0.002	0.34	0.20	1.3	<1	0.4	88.5	0.09	<0.05	2.0	0.040	1.15



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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12145884**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M666959		11.4	68	0.9	12.4	23	50.5
M666960		13.9	43	0.9	8.3	17	34.2
M666961		12.5	39	1.6	8.2	21	41.0
M666962		8.6	61	2.0	12.1	20	67.9
M666963		8.1	174	21.7	15.0	46	173.5
M666964		8.5	89	3.5	15.8	19	78.2
M666965		10.1	22	1.2	5.3	7	28.3
M666966		5.9	43	3.3	10.4	14	97.7
M666967		8.0	39	2.6	11.3	21	108.0
M666968		8.0	14	0.3	4.4	21	15.0
M666969		0.6	3	0.1	0.8	16	<0.5
M666970		6.5	28	0.9	8.0	15	54.4
M666971		5.9	24	2.5	6.0	15	30.4
M666972		8.8	51	2.4	10.3	20	75.1
M666973		10.0	52	2.7	10.8	22	74.7
M666974		5.6	74	1.7	15.1	22	101.5
M666975		14.7	16	0.9	4.1	79	9.9
M666976		15.4	28	0.9	6.0	177	30.0
M666977		16.3	21	0.4	5.0	4	26.8
M666978		13.7	32	1.5	7.6	58	46.1
M666979		18.6	18	1.2	3.7	2	15.7
M666980		8.7	182	35.5	15.3	44	180.0
M666981		18.2	26	1.8	5.9	6	30.2
M666982		9.5	36	2.1	9.7	7	60.6
M666983		12.4	25	0.8	4.7	5	17.7
M666984		9.0	14	0.5	3.7	15	9.9
M666985		0.6	5	0.1	0.8	17	<0.5
M666986		9.1	18	0.9	5.0	13	19.5
M666987		6.7	11	0.4	3.1	83	6.0
M666988		11.5	21	0.7	4.6	9	16.5
M666989		11.5	20	0.8	4.2	9	15.9
M666990		15.5	20	0.9	3.6	3	14.9
M666991		14.0	23	0.8	4.8	2	25.6
M666992		12.5	31	1.1	7.9	9	48.9
M666993		8.3	29	1.0	7.6	29	45.0
M666994		7.8	18	0.9	5.5	4	25.9



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12145884**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12138339**

Project: Rackla Gold  
 P.O. No.: 12- 040  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

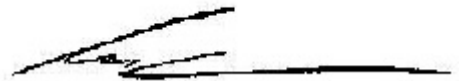
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12138339**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306641		7.62	<0.01	0.04	1.33	61	140	0.47	0.07	31.9	0.05	20.7	3.8	13	3.95	13.8
K306642		7.54	0.01	0.02	0.47	62	90	0.23	0.05	35.8	0.05	8.47	1.6	5	0.86	5.7
K306643		5.00	<0.01	0.01	0.46	25	120	0.23	0.04	35.5	0.03	8.35	1.5	4	0.96	6.0
K306644		3.88	<0.01	0.02	0.46	24	120	0.21	0.04	34.1	0.04	8.43	1.5	4	0.94	10.8
K306645		7.64	<0.01	0.02	0.62	26	130	0.25	0.04	36.4	0.07	11.10	2.1	6	1.77	7.4
K306646		7.21	<0.01	0.02	0.53	35	120	0.31	0.04	36.5	0.05	9.12	1.6	5	1.16	6.7
K306647		7.32	<0.01	0.01	0.53	57	100	0.23	0.04	35.8	0.02	9.81	1.7	5	1.22	6.7
K306648		8.17	0.03	0.06	1.57	231	170	0.53	0.08	30.8	0.13	19.95	5.0	16	3.89	15.3
K306649		0.23	2.68	1.05	3.29	571	860	0.83	0.31	8.02	2.24	47.0	6.9	54	3.83	44.7
K306650		7.60	0.01	0.15	5.63	402	240	1.34	0.28	11.00	0.45	71.1	20.3	57	14.20	59.7
K306651		7.66	<0.01	0.09	2.41	161	170	0.70	0.12	27.2	0.19	31.9	8.3	24	6.34	24.3
K306652		7.48	0.03	0.08	1.19	1440	140	0.48	0.06	31.0	0.11	15.55	3.9	12	3.27	11.1
K306653		5.14	0.03	0.05	1.88	186	180	0.59	0.08	29.4	0.18	27.4	5.8	17	4.80	17.0
K306654		2.78	0.02	0.06	3.94	178	210	0.91	0.17	21.4	0.21	50.0	12.3	35	10.65	33.8
K306655		<0.02	0.02	0.06	3.98	187	210	1.00	0.17	21.4	0.21	50.8	12.5	37	10.80	34.7
K306656		6.85	0.09	0.04	1.53	107	180	0.52	0.07	30.2	0.21	27.2	5.1	14	4.43	15.8
K306657		7.73	0.09	0.04	1.20	122	130	0.44	0.06	31.2	0.12	18.95	3.9	12	3.25	12.4
K306658		7.13	0.27	0.40	0.67	949	30	0.28	0.03	20.1	<0.02	8.54	1.2	6	1.49	10.6
K306659		6.58	0.04	0.16	0.90	718	50	0.32	0.03	19.80	0.02	10.15	2.4	8	1.84	7.7
K306660		5.88	0.38	0.08	0.57	764	20	0.23	0.03	19.90	0.05	9.25	1.8	5	1.09	7.7
K306661		4.91	<0.01	0.03	0.12	9	20	0.07	0.03	20.8	0.06	1.39	0.8	2	0.46	2.3
K306662		6.87	0.06	0.07	0.71	702	30	0.31	0.03	19.75	0.02	8.80	1.7	6	1.82	6.2
K306663		0.21	4.40	0.74	3.09	497	770	0.79	0.46	9.90	0.61	44.7	5.4	44	2.71	35.4
K306664		7.03	1.22	0.13	1.04	2910	40	0.42	0.04	20.6	0.10	11.55	2.4	7	3.16	9.6
K306665		6.86	<0.01	0.05	1.36	108	150	0.33	0.05	29.6	0.07	15.50	5.0	14	2.95	15.2
K306666		7.44	<0.01	0.05	1.74	97	140	0.49	0.08	29.7	0.10	21.4	6.0	18	3.73	19.1
K306667		7.11	<0.01	0.06	2.14	82	260	0.61	0.10	26.8	0.19	32.2	7.4	22	4.78	22.4
K306668		6.76	<0.01	0.06	2.37	110	170	0.59	0.14	27.2	0.31	33.7	8.0	22	5.76	23.7
K306669		4.95	<0.01	0.02	0.12	<5	40	0.09	0.05	20.5	0.09	1.50	0.8	1	0.31	2.1
K306670		7.94	0.01	0.04	1.92	110	210	0.65	0.08	29.3	0.17	24.7	6.6	20	5.00	18.5
K306965		12.60	0.02	0.05	3.26	101	290	1.09	0.09	15.75	0.03	28.8	6.5	31	8.30	17.7
K306672		9.04	0.05	0.04	1.05	194	230	0.49	0.04	18.65	0.05	16.60	4.0	8	3.19	11.7
K306673		11.86	<0.01	0.03	0.56	89	40	0.33	0.03	19.45	0.07	9.33	2.0	4	0.90	6.4
K306674		11.85	<0.01	0.06	0.30	322	20	0.13	0.03	20.0	0.06	8.95	1.1	3	0.43	6.3
K306675		12.34	0.01	0.03	0.48	187	30	0.25	0.03	19.60	0.02	8.03	1.4	5	0.73	5.6
K306676		11.68	0.04	0.07	0.58	1160	40	0.27	0.03	19.25	0.07	9.70	1.4	6	0.92	5.0





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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12138339**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K306641		1.16	3.41	0.18	0.6	0.64	0.016	0.60	10.5	5.0	1.29	335	1.08	0.02	1.7	6.9
K306642		0.38	1.23	0.18	0.2	0.60	0.006	0.21	4.2	1.8	0.55	316	0.23	0.01	0.6	2.0
K306643		0.38	1.23	0.17	0.2	0.26	0.007	0.20	4.1	2.1	0.46	229	0.28	0.01	0.6	2.3
K306644		0.38	1.26	0.17	0.2	0.27	0.006	0.20	4.1	2.0	0.48	228	0.34	0.01	0.6	2.1
K306645		0.45	1.64	0.21	0.3	0.26	0.007	0.27	5.4	2.9	0.54	244	0.34	0.01	0.8	2.9
K306646		0.42	1.38	0.17	0.3	0.35	0.008	0.22	4.4	2.0	0.60	323	0.32	0.01	0.7	2.6
K306647		0.48	1.46	0.18	0.2	0.32	0.007	0.24	4.9	2.0	0.77	441	0.26	0.01	0.6	2.5
K306648		1.10	3.87	0.09	0.7	1.38	0.015	0.71	10.6	4.8	0.93	271	1.08	0.01	2.0	8.9
K306649		2.19	7.69	0.12	1.6	4.85	0.026	1.03	29.0	37.3	2.62	274	18.75	0.03	6.5	55.3
K306650		3.21	15.65	0.16	2.6	5.76	0.055	2.52	40.0	16.1	2.35	401	3.67	0.03	7.5	36.4
K306651		1.53	6.16	0.10	1.0	2.80	0.026	1.06	15.4	7.4	1.36	263	1.61	0.02	3.0	14.8
K306652		0.82	2.93	0.09	0.5	2.37	0.015	0.49	7.8	4.0	0.73	500	0.54	0.01	1.5	6.4
K306653		1.31	4.81	0.10	0.9	2.08	0.021	0.84	12.8	5.9	0.61	546	0.44	0.02	2.7	10.0
K306654		2.26	9.79	0.15	1.7	1.50	0.039	1.71	28.8	10.9	0.94	371	0.98	0.06	5.2	21.2
K306655		2.31	10.00	0.15	1.7	1.50	0.041	1.75	27.4	11.1	0.96	372	1.02	0.06	5.2	22.4
K306656		0.99	3.81	0.09	0.7	1.04	0.017	0.68	13.4	5.2	0.87	388	0.53	0.02	1.9	9.0
K306657		0.86	2.92	0.08	0.5	0.91	0.012	0.54	10.0	4.0	0.80	525	0.31	0.01	1.5	6.7
K306658		0.80	1.65	0.07	0.3	2.00	0.007	0.29	5.1	3.6	12.20	541	0.31	0.02	1.0	2.8
K306659		1.34	2.16	0.07	0.5	3.36	0.006	0.38	5.7	4.9	11.95	703	0.60	0.02	1.3	6.1
K306660		1.54	1.47	0.06	0.2	2.94	0.008	0.25	5.3	3.1	11.90	994	0.77	0.02	0.8	5.4
K306661		0.50	0.32	0.05	<0.1	0.01	<0.005	0.06	0.7	1.4	13.25	217	0.09	0.01	0.2	1.9
K306662		1.01	1.81	0.06	0.3	2.16	0.008	0.33	5.0	5.1	12.00	757	0.77	0.02	1.0	4.4
K306663		1.95	6.83	0.08	1.3	5.13	0.025	0.92	26.4	55.8	5.35	366	10.25	0.02	5.5	35.0
K306664		1.42	2.47	0.06	0.4	4.20	0.009	0.49	6.8	6.0	12.25	968	0.55	0.02	1.4	5.7
K306665		1.25	3.40	0.07	0.7	1.26	0.016	0.61	7.1	4.2	0.56	127	0.39	0.01	2.0	8.4
K306666		1.22	4.51	0.08	0.9	1.23	0.019	0.79	10.5	4.8	0.79	262	0.70	0.01	2.6	10.6
K306667		1.55	5.37	0.12	1.0	1.43	0.023	0.96	16.3	5.6	0.76	347	0.66	0.02	2.7	13.2
K306668		1.55	5.69	0.10	0.9	1.89	0.021	1.03	17.2	6.8	0.75	423	0.74	0.02	2.9	14.1
K306669		0.49	0.28	<0.05	<0.1	<0.01	<0.005	0.05	0.8	1.1	13.05	213	0.10	0.01	0.2	1.6
K306670		1.41	4.84	0.08	0.9	1.36	0.018	0.83	12.4	6.1	0.67	491	0.48	0.03	2.3	11.6
K306965		2.01	8.26	0.10	1.4	0.36	0.026	1.59	14.9	10.5	7.01	1010	0.34	0.02	4.7	16.5
K306672		1.78	2.69	0.08	0.5	1.36	0.010	0.52	8.4	6.1	11.25	611	10.40	0.02	1.6	9.7
K306673		1.03	1.46	0.05	0.4	0.56	0.007	0.27	4.8	3.7	12.05	567	1.54	0.02	1.0	5.6
K306674		1.41	0.76	0.06	0.2	1.39	<0.005	0.13	4.4	1.5	12.15	564	0.23	0.01	0.5	5.2
K306675		0.70	1.23	<0.05	0.4	0.51	0.006	0.23	4.3	2.7	12.05	524	0.28	0.02	0.8	4.7
K306676		0.59	1.44	<0.05	0.4	0.97	0.005	0.28	5.4	2.9	11.80	639	0.45	0.01	0.9	4.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12138339**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306641		770	6.8	25.1	0.006	0.93	0.46	3.8	1	0.4	1565	0.13	<0.05	2.3	0.066	1.23
K306642		480	2.1	8.4	0.004	0.31	0.45	1.4	<1	0.2	1420	<0.05	0.06	0.8	0.023	0.60
K306643		110	1.8	8.8	0.004	0.31	0.20	1.2	1	0.2	1755	<0.05	0.08	0.8	0.023	0.42
K306644		120	1.9	8.5	0.004	0.31	0.28	1.3	<1	0.2	1815	<0.05	<0.05	0.8	0.023	0.45
K306645		700	2.3	11.9	<0.002	0.39	0.30	1.7	2	0.3	1820	0.06	0.06	1.1	0.031	0.54
K306646		880	2.1	9.3	0.005	0.34	0.35	1.4	<1	0.3	1615	0.05	0.05	1.0	0.026	0.46
K306647		590	2.5	9.8	0.002	0.34	0.27	1.6	<1	0.2	1480	<0.05	0.06	0.9	0.024	0.51
K306648		280	5.3	29.6	0.006	1.00	2.19	4.2	1	0.5	2110	0.16	<0.05	2.5	0.081	2.06
K306649		900	37.6	50.6	0.026	1.55	106.5	5.4	4	2.3	74.0	0.43	0.19	6.6	0.171	4.24
K306650		270	18.0	118.0	0.012	3.03	2.60	14.7	3	1.8	653	0.56	0.09	9.3	0.296	8.27
K306651		380	7.9	46.7	0.008	1.40	0.90	7.0	2	0.7	1955	0.23	<0.05	3.8	0.122	4.30
K306652		570	4.1	21.1	0.004	0.77	5.93	3.2	1	0.4	1620	0.11	<0.05	1.9	0.063	2.84
K306653		900	5.8	37.3	0.002	1.16	1.28	5.0	2	0.6	1920	0.20	0.05	3.1	0.110	3.39
K306654		260	11.0	73.6	0.004	1.99	1.11	10.0	2	1.1	1635	0.40	<0.05	6.2	0.209	5.28
K306655		270	11.3	76.1	0.005	2.01	1.13	10.2	2	1.1	1630	0.41	<0.05	6.2	0.214	5.75
K306656		190	5.0	29.3	0.005	0.87	2.17	4.2	1	0.5	2490	0.15	0.06	2.7	0.077	3.79
K306657		230	3.9	22.9	0.005	0.71	1.72	3.3	2	0.4	1955	0.11	0.05	2.0	0.065	3.22
K306658		130	6.1	9.4	0.003	0.30	1.58	1.2	2	0.3	99.7	0.07	<0.05	1.4	0.028	5.61
K306659		170	8.6	11.3	0.005	0.46	1.67	1.6	1	0.4	110.0	0.10	<0.05	1.8	0.037	10.40
K306660		150	11.7	8.4	0.003	0.79	1.58	1.1	1	0.3	89.6	0.06	<0.05	1.0	0.022	8.16
K306661		180	1.4	2.7	<0.002	0.02	0.10	0.3	1	<0.2	43.6	<0.05	<0.05	<0.2	0.005	0.06
K306662		150	9.8	10.4	<0.002	0.38	0.89	1.3	1	0.3	73.8	0.07	<0.05	1.3	0.029	5.11
K306663		570	10.1	48.6	0.009	1.56	93.4	5.1	3	2.7	58.7	0.37	0.21	6.6	0.154	2.61
K306664		170	16.0	16.9	<0.002	0.78	0.78	1.8	1	0.4	88.9	0.11	<0.05	1.9	0.041	11.85
K306665		630	6.6	26.5	0.004	1.31	1.32	3.6	1	0.4	1820	0.13	<0.05	2.0	0.095	1.61
K306666		710	7.8	34.4	0.006	1.09	1.50	4.3	1	0.5	1645	0.18	<0.05	2.8	0.102	1.48
K306667		1000	7.8	42.7	0.006	1.22	0.74	6.0	2	0.7	1825	0.21	0.06	3.6	0.119	1.24
K306668		190	8.7	46.5	0.005	1.23	1.23	6.2	3	0.7	1440	0.21	<0.05	3.8	0.125	1.59
K306669		180	2.1	2.4	<0.002	0.01	0.13	0.3	<1	<0.2	46.1	<0.05	<0.05	0.2	<0.005	0.03
K306670		1490	5.3	36.0	0.003	1.08	0.94	5.9	1	0.5	1850	0.19	<0.05	2.9	0.112	1.34
K306965		380	6.2	53.3	0.003	0.54	0.31	5.3	2	1.0	121.0	0.35	<0.05	6.6	0.139	1.70
K306672		2580	19.8	17.5	<0.002	1.25	2.46	2.0	2	0.5	86.1	0.10	<0.05	2.1	0.048	3.31
K306673		790	10.3	8.5	<0.002	0.46	2.00	1.1	<1	0.2	74.5	0.06	<0.05	1.2	0.025	1.89
K306674		890	10.9	4.0	<0.002	1.10	3.33	0.7	1	<0.2	72.7	<0.05	<0.05	0.7	0.013	4.82
K306675		450	3.9	7.0	0.002	0.29	0.78	0.9	<1	0.2	66.9	0.06	<0.05	1.2	0.023	1.56
K306676		370	7.5	8.5	<0.002	0.29	0.74	1.1	1	0.3	91.6	0.07	<0.05	1.4	0.026	3.05



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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12138339**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
	Zr					0.5	
K306641		3.4	24	0.7	15.0	6	20.9
K306642		2.0	10	0.5	8.0	7	8.1
K306643		1.9	9	0.4	7.7	5	7.1
K306644		1.9	9	0.4	7.7	8	7.3
K306645		2.5	12	0.4	9.8	8	10.9
K306646		2.2	11	0.5	8.0	5	10.2
K306647		1.9	10	0.4	8.9	3	10.0
K306648		2.6	27	1.5	13.6	19	20.8
K306649		9.0	232	29.0	19.8	217	55.1
K306650		5.5	99	6.2	23.9	80	77.8
K306651		3.4	43	2.7	17.7	32	33.9
K306652		2.0	21	1.4	10.7	16	17.9
K306653		2.5	32	1.1	18.8	27	30.6
K306654		3.5	64	1.2	26.7	53	54.3
K306655		3.6	66	1.3	26.1	53	54.7
K306656		3.1	26	0.9	20.0	25	20.9
K306657		2.1	22	0.7	13.7	17	17.0
K306658		15.9	22	1.1	3.1	3	11.6
K306659		25.1	17	1.5	3.9	5	16.6
K306660		17.9	12	0.9	3.2	7	7.3
K306661		0.9	4	0.1	0.9	14	0.7
K306662		16.1	15	1.2	3.1	3	10.9
K306663		5.8	98	76.1	15.0	76	45.3
K306664		17.9	16	1.7	3.9	39	13.5
K306665		2.1	23	2.3	10.4	21	20.4
K306666		2.6	28	2.0	11.7	19	25.3
K306667		3.1	39	1.1	20.6	32	34.2
K306668		3.1	39	1.5	22.2	38	31.6
K306669		0.5	4	0.1	0.9	17	<0.5
K306670		2.1	37	1.4	16.2	25	31.2
K306965		6.9	44	1.7	8.9	7	47.0
K306672		4.0	16	1.0	10.1	7	16.8
K306673		2.4	8	0.6	6.0	17	11.0
K306674		3.2	6	0.4	5.7	17	5.2
K306675		4.3	10	0.5	3.5	4	13.1
K306676		9.7	13	0.8	3.9	15	12.2



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**CERTIFICATE OF ANALYSIS WH12138339**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. REE's may not be totally soluble in this method.



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**CERTIFICATE WH12148782**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 042  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 27- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12148782**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666751		11.00	0.03	0.10	9.22	196.0	390	2.95	0.42	1.58	<0.02	92.6	16.8	72	39.5	20.4
M666995		7.59	0.05	0.04	3.40	52	140	1.28	0.08	10.05	0.07	38.1	5.9	37	10.85	8.1
M666996		7.73	0.01	0.09	2.19	33	110	0.72	0.05	16.25	0.03	25.3	5.0	22	10.40	9.8
M666997		6.90	0.01	0.07	2.99	42	210	1.05	0.07	15.55	0.05	32.0	7.2	26	12.05	14.0
M666998		7.77	0.01	0.06	1.25	35	60	0.56	0.04	18.50	0.02	17.70	3.6	14	5.33	8.4
M666999		7.76	<0.01	0.08	2.75	28	110	1.03	0.06	14.65	0.03	31.9	6.5	27	15.35	15.3
M667000		4.89	<0.01	0.01	0.08	18	20	0.09	0.04	21.0	0.07	1.24	1.7	2	0.39	2.5
M666901		7.95	<0.01	0.07	3.09	40	120	1.34	0.07	14.25	0.67	35.4	7.0	29	21.0	16.2
M666902		7.88	<0.01	0.10	3.42	27	140	1.39	0.08	13.10	0.13	39.0	8.4	33	17.15	20.7
M666903		2.49	<0.01	0.04	2.35	14	130	0.82	0.06	12.00	0.09	31.3	3.7	25	7.77	11.5
M666904		5.54	<0.01	0.02	2.56	15	220	0.91	0.06	21.8	0.05	34.5	5.6	25	8.73	20.0
M666905		7.45	0.01	0.02	4.35	11	210	1.68	0.09	14.40	0.16	47.1	9.5	41	19.50	23.0
M666906		0.25	0.33	0.38	6.41	622	360	0.73	0.28	0.48	0.21	145.5	3.4	242	3.64	34.8
M666907		7.24	<0.01	0.03	2.79	10	160	0.96	0.07	20.2	0.10	32.2	8.3	29	11.00	18.6
M666908		7.44	<0.01	0.03	3.12	<5	180	1.13	0.07	18.65	0.09	35.2	6.9	33	12.45	18.9
M666909		4.02	<0.01	0.02	3.21	10	180	1.16	0.07	19.15	0.09	34.7	6.9	32	12.55	19.2
M666910		7.59	<0.01	0.04	2.25	10	230	0.82	0.06	26.7	0.23	24.4	4.9	23	8.44	15.1
M666911		7.58	<0.01	0.04	1.32	10	320	0.43	0.04	27.6	0.27	15.25	3.4	16	2.88	8.0
M666912		7.57	<0.01	0.05	1.58	13	210	0.55	0.04	27.1	0.13	18.25	4.1	18	3.26	9.2
M666913		7.71	<0.01	0.02	3.03	21	210	1.11	0.07	21.2	0.13	33.3	6.8	29	7.94	24.8
M666914		0.26	0.41	0.42	6.62	622	440	0.67	0.25	0.69	0.19	146.5	4.4	242	3.62	16.5
M666915		7.56	<0.01	<0.01	3.52	10	180	1.24	0.08	18.00	0.14	37.1	5.1	34	8.74	35.1
M666916		7.91	0.01	<0.01	4.05	<5	300	1.39	0.10	14.10	0.14	45.1	7.0	38	9.28	18.0
M666917		7.79	0.01	<0.01	3.50	14	190	1.20	0.09	17.90	0.13	39.3	6.5	34	7.04	30.7
M666918		7.79	0.01	<0.01	4.10	5	270	1.41	0.10	13.95	0.15	45.5	7.7	40	6.65	25.4
M666919		4.97	<0.01	0.01	0.07	6	20	0.05	0.02	20.7	0.06	1.18	1.7	2	0.19	1.9
M666920		7.40	<0.01	0.02	4.02	7	280	1.43	0.10	14.15	0.16	44.2	7.8	37	5.85	19.8
M666921		7.15	<0.01	0.02	4.04	5	190	1.44	0.11	14.90	0.12	45.1	7.7	37	5.97	20.8
M666922		7.62	<0.01	0.02	4.11	8	230	1.44	0.10	12.65	0.11	45.9	7.2	43	6.70	23.5
M666923		5.84	0.01	1.12	5.02	138	250	1.28	0.21	13.80	0.02	55.2	7.6	42	9.40	21.6
M666924		5.73	<0.01	0.31	4.23	173	210	1.15	0.18	15.40	<0.02	52.8	7.1	39	8.84	18.5
M666925		8.70	<0.01	0.22	5.15	153	300	1.50	0.22	11.55	0.03	72.4	8.6	48	11.15	22.4
M666926		9.11	<0.01	0.10	5.01	263	230	1.45	0.22	10.95	0.03	70.9	8.6	45	9.76	23.1
M666927		8.80	<0.01	0.04	1.51	100	90	0.57	0.07	25.8	0.03	21.0	2.6	14	3.39	7.7
M666928		8.83	<0.01	0.06	3.23	153	160	0.92	0.13	21.2	0.03	43.9	5.6	29	6.58	14.5
M666929		<0.02	<0.01	0.06	3.08	144	150	0.78	0.13	20.7	0.03	41.7	5.1	27	6.17	13.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 17- JUL- 2012  
 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12148782**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M666751		2.79	23.4	0.13	3.7	0.65	0.081	4.79	48.2	29.8	1.26	235	0.38	0.05	14.1	38.7
M666995		1.39	9.37	0.11	3.0	0.42	0.020	1.81	20.2	14.4	5.97	233	0.55	0.02	6.4	12.6
M666996		1.08	5.87	0.08	1.4	0.25	0.012	1.14	14.5	8.8	9.46	258	0.93	0.02	3.4	7.5
M666997		1.31	7.92	0.10	1.2	0.41	0.021	1.52	19.1	10.9	8.48	305	0.65	0.02	4.1	11.5
M666998		0.87	3.45	0.10	0.6	0.14	0.012	0.65	10.1	5.5	10.75	263	0.59	0.04	2.2	4.8
M666999		1.39	7.59	0.09	1.6	0.17	0.020	1.49	17.3	14.3	8.21	289	0.76	0.02	4.5	13.9
M667000		0.48	0.54	0.19	<0.1	0.01	<0.005	0.04	0.6	1.2	12.80	215	0.16	0.01	0.3	<0.2
M666901		1.64	8.61	0.11	1.5	0.16	0.022	1.69	19.0	21.3	7.59	341	0.46	0.02	4.9	15.3
M666902		1.90	9.20	0.09	1.6	0.21	0.023	1.90	21.1	22.1	6.88	265	0.87	0.02	5.4	18.5
M666903		1.36	6.19	0.07	2.3	0.07	0.019	1.36	15.9	14.8	6.44	347	0.50	0.02	4.2	6.2
M666904		1.20	6.96	0.09	1.2	0.04	0.025	1.39	18.6	12.2	3.90	285	0.47	0.02	4.3	5.2
M666905		1.58	12.30	0.11	1.9	0.09	0.035	2.52	25.5	25.4	3.85	201	0.40	0.03	7.4	17.3
M666906		6.74	22.8	0.26	4.4	10.1	0.055	1.37	72.3	18.9	0.13	38	7.19	0.38	11.1	19.3
M666907		1.31	8.01	0.08	1.4	0.06	0.021	1.60	17.9	13.7	3.95	191	0.49	0.02	4.9	13.1
M666908		1.20	8.97	0.09	1.6	0.04	0.026	1.81	19.2	17.4	3.99	177	0.54	0.03	5.4	10.7
M666909		1.17	8.93	0.08	1.6	0.03	0.024	1.86	18.9	17.3	3.92	176	0.46	0.03	5.3	10.4
M666910		0.74	6.40	0.07	1.0	0.05	0.016	1.29	13.9	13.4	1.99	136	0.78	0.02	3.9	5.4
M666911		0.78	3.73	0.05	0.6	0.07	0.011	0.74	8.6	7.0	2.28	139	0.62	0.01	2.2	2.9
M666912		0.71	4.50	0.06	0.7	0.06	0.011	0.90	10.2	8.3	2.45	138	0.71	0.02	2.7	3.9
M666913		1.17	8.67	0.08	1.3	0.04	0.022	1.79	18.3	21.3	2.96	181	0.45	0.03	5.1	10.4
M666914		6.35	22.3	0.25	4.2	11.0	0.053	1.39	70.9	17.0	0.13	16	5.46	0.40	10.3	15.1
M666915		1.32	9.56	0.08	1.6	0.06	0.029	2.07	20.6	23.4	3.00	190	0.30	0.03	5.9	12.0
M666916		1.66	11.20	0.09	2.0	0.05	0.032	2.42	24.0	25.5	3.62	236	0.33	0.04	6.9	17.0
M666917		1.42	9.67	0.09	1.7	0.04	0.025	2.07	21.5	23.6	3.08	226	0.33	0.04	6.0	14.6
M666918		1.75	11.15	0.10	2.0	0.05	0.033	2.42	24.4	29.9	3.51	254	0.40	0.04	6.9	18.3
M666919		0.45	0.43	0.16	<0.1	<0.01	0.005	0.03	0.6	1.0	12.65	208	0.12	<0.01	0.2	0.2
M666920		1.86	10.90	0.10	1.9	0.05	0.033	2.32	24.1	29.1	4.16	258	0.37	0.04	6.8	17.1
M666921		1.78	10.85	0.09	1.8	0.04	0.034	2.29	24.6	26.0	3.96	254	0.30	0.04	6.9	17.2
M666922		1.81	11.30	0.11	2.0	0.04	0.034	2.33	25.9	28.1	3.43	223	0.34	0.05	7.0	20.5
M666923		2.25	12.05	0.15	2.5	0.15	0.039	2.40	28.5	12.4	0.64	442	0.35	0.03	7.9	23.2
M666924		2.11	11.05	0.15	2.4	0.10	0.030	2.09	27.2	12.0	0.44	441	0.32	0.03	7.3	22.4
M666925		2.37	13.85	0.17	3.0	0.07	0.044	2.53	38.2	14.5	0.47	312	0.40	0.03	9.3	22.6
M666926		2.18	13.20	0.14	3.2	0.10	0.045	2.48	33.6	12.6	0.43	258	0.42	0.03	9.4	23.5
M666927		1.68	3.69	0.10	0.6	0.11	0.014	0.73	10.1	4.2	2.75	530	0.19	0.03	2.1	7.6
M666928		1.60	8.04	0.14	1.8	0.13	0.025	1.55	21.7	8.3	0.37	199	0.27	0.02	5.2	14.5
M666929		1.51	7.58	0.12	1.7	0.12	0.026	1.49	21.0	7.9	0.36	191	0.27	0.02	5.0	13.8

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12148782**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666751		420	13.6	177.5	<0.002	1.26	0.39	17.0	1	2.9	88.3	1.07	0.10	16.0	0.441	3.28
M666995		610	8.3	66.5	<0.002	0.85	0.25	6.3	2	1.1	84.1	0.46	<0.05	7.5	0.161	1.05
M666996		270	8.0	39.7	0.002	0.78	0.26	4.0	2	0.7	120.5	0.24	<0.05	4.3	0.092	0.89
M666997		310	9.2	51.3	<0.002	0.81	0.28	5.5	2	0.8	155.5	0.29	<0.05	5.4	0.109	1.48
M666998		170	7.6	22.5	<0.002	0.63	0.28	2.4	2	0.4	120.5	0.14	<0.05	2.6	0.054	0.61
M666999		510	10.0	54.1	<0.002	0.91	0.33	5.2	2	0.9	108.5	0.30	<0.05	5.6	0.115	0.50
M667000		170	1.4	2.3	<0.002	0.01	0.08	0.4	1	<0.2	46.8	<0.05	<0.05	<0.2	<0.005	0.03
M666901		440	8.7	63.2	<0.002	0.93	0.29	5.7	2	1.0	128.0	0.34	<0.05	6.1	0.125	0.38
M666902		390	12.6	69.6	0.002	1.33	0.43	6.2	2	1.1	126.0	0.38	<0.05	6.5	0.144	0.50
M666903		480	6.1	49.0	<0.002	0.29	0.26	4.3	2	0.8	94.3	0.30	<0.05	5.5	0.109	0.29
M666904		290	6.5	50.8	<0.002	0.30	0.17	4.8	2	0.9	316	0.28	<0.05	5.0	0.105	0.34
M666905		480	7.3	85.4	<0.002	0.45	0.29	8.2	2	1.5	212	0.52	<0.05	8.5	0.188	0.45
M666906		920	17.2	53.8	0.004	3.06	122.0	19.0	3	3.1	524	0.76	0.16	9.7	0.564	7.71
M666907		310	6.7	60.3	0.002	0.39	0.30	5.3	2	1.0	362	0.33	<0.05	5.5	0.123	0.29
M666908		330	7.5	69.2	<0.002	0.16	0.23	6.1	3	1.1	343	0.38	<0.05	6.4	0.138	0.31
M666909		340	7.2	63.1	0.002	0.13	0.22	5.9	2	1.1	368	0.38	<0.05	6.4	0.140	0.30
M666910		310	7.8	49.8	0.002	0.12	0.24	4.2	2	0.8	815	0.25	<0.05	4.3	0.095	0.27
M666911		160	5.4	26.3	<0.002	0.14	0.25	2.5	2	0.5	1190	0.15	<0.05	2.6	0.057	0.21
M666912		190	5.3	32.7	0.002	0.14	0.27	2.9	2	0.6	1220	0.18	<0.05	3.1	0.069	0.21
M666913		310	5.1	62.0	<0.002	0.10	0.23	5.6	2	1.0	353	0.35	<0.05	5.8	0.127	0.29
M666914		970	14.4	53.5	0.003	3.19	116.0	17.9	2	2.3	542	0.74	0.16	9.4	0.545	8.00
M666915		380	5.1	72.7	<0.002	0.04	0.24	6.4	2	1.2	297	0.43	<0.05	6.9	0.154	0.32
M666916		420	5.7	84.5	<0.002	0.04	0.21	7.3	2	1.4	231	0.48	<0.05	8.4	0.179	0.34
M666917		360	5.5	72.8	<0.002	0.03	0.19	6.4	2	1.2	318	0.43	<0.05	7.3	0.155	0.30
M666918		520	7.6	84.1	<0.002	0.03	0.22	7.4	3	1.4	231	0.49	<0.05	8.4	0.182	0.36
M666919		190	1.3	1.5	<0.002	0.01	<0.05	0.3	1	<0.2	45.2	<0.05	<0.05	<0.2	<0.005	<0.02
M666920		430	6.2	82.1	<0.002	0.03	0.22	7.2	2	1.4	220	0.50	<0.05	8.2	0.175	0.34
M666921		390	5.6	83.3	<0.002	0.03	0.20	7.4	2	1.4	238	0.48	<0.05	7.9	0.176	0.34
M666922		420	7.3	96.2	<0.002	0.03	0.30	6.9	2	1.5	216	0.50	<0.05	7.9	0.186	0.40
M666923		200	20.3	92.1	<0.002	0.13	0.65	7.4	1	1.5	223	0.61	<0.05	9.2	0.252	1.47
M666924		170	22.8	82.0	<0.002	0.27	0.63	6.7	1	1.3	274	0.55	<0.05	8.5	0.237	1.47
M666925		200	18.9	106.5	<0.002	0.15	0.68	8.5	1	1.7	238	0.69	<0.05	10.6	0.312	1.29
M666926		180	22.8	101.5	<0.002	0.06	0.71	8.5	1	1.7	217	0.70	0.05	10.7	0.298	1.50
M666927		730	7.4	26.5	<0.002	0.25	0.25	2.6	1	0.6	422	0.15	<0.05	2.7	0.065	1.01
M666928		200	11.3	56.9	<0.002	0.25	0.42	5.0	1	1.1	484	0.40	<0.05	6.2	0.180	1.35
M666929		190	10.7	57.4	<0.002	0.24	0.40	4.9	1	1.0	472	0.40	<0.05	6.0	0.172	1.29

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**CERTIFICATE OF ANALYSIS WH12148782**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
	Zr	0.5					
M666751		3.6	126	7.9	22.2	24	121.0
M666995		4.9	47	1.3	13.9	19	105.0
M666996		11.2	38	0.5	8.3	6	49.4
M666997		12.1	41	0.8	7.6	12	41.7
M666998		14.2	20	0.6	5.5	4	20.3
M666999		6.9	41	0.6	10.2	8	54.9
M667000		0.5	3	0.1	0.9	15	<0.5
M666901		9.1	48	0.6	10.5	91	53.3
M666902		9.8	54	0.6	11.0	38	56.7
M666903		6.7	33	0.5	11.2	14	80.9
M666904		13.7	38	0.4	10.6	10	41.8
M666905		5.2	57	0.8	14.8	29	68.7
M666906		7.8	171	23.7	15.9	45	174.5
M666907		9.1	44	0.6	10.7	17	48.9
M666908		8.2	44	0.6	11.3	31	54.2
M666909		7.9	45	0.5	11.1	26	53.5
M666910		13.7	32	0.4	8.2	53	34.1
M666911		15.5	20	0.3	4.9	53	21.0
M666912		14.0	24	0.3	5.8	28	25.2
M666913		4.7	39	0.5	10.8	20	44.7
M666914		7.8	170	33.1	14.8	41	163.0
M666915		3.7	45	0.6	11.9	19	55.0
M666916		4.2	50	0.7	14.4	28	70.7
M666917		5.3	45	0.6	12.4	25	58.0
M666918		4.6	56	0.7	14.4	34	68.4
M666919		0.6	2	0.1	0.9	13	<0.5
M666920		4.3	55	0.8	13.9	36	67.1
M666921		4.5	48	0.8	14.0	36	66.5
M666922		3.8	56	0.8	14.9	37	68.1
M666923		3.4	57	5.6	15.4	34	82.3
M666924		3.2	48	1.7	13.7	20	85.5
M666925		3.7	63	1.6	19.4	51	99.4
M666926		3.5	60	1.2	19.8	31	102.5
M666927		2.5	17	0.3	7.4	22	31.0
M666928		3.1	35	0.7	12.7	40	60.9
M666929		3.0	34	0.7	12.3	37	58.2



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 17- JUL- 2012  
Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12148782**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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Page: 1  
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**CERTIFICATE WH12140452**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 046  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 9- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140452**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306709		6.98	12.80	0.37	3.02	>10000	70	0.96	0.10	11.05	0.58	36.6	5.8	30	7.71	19.6
K306710		4.99	9.13	0.05	2.92	4300	60	1.16	0.07	9.43	0.12	34.5	4.8	28	7.78	12.2
K306711		4.75	5.94	0.03	2.49	>10000	70	0.91	0.07	17.80	0.12	27.2	4.8	24	6.62	11.8
K306712		6.91	0.01	<0.01	0.05	15	20	0.09	0.02	20.3	0.06	1.27	1.4	1	0.14	1.6
K306713		6.71	0.34	0.02	0.64	947	60	0.53	0.03	32.8	0.13	10.75	1.8	6	2.25	4.5
K306714		6.04	0.10	0.02	0.79	148	140	0.53	0.03	33.2	0.10	13.20	2.0	9	2.71	5.1
K306715		6.39	0.02	0.03	1.72	121	120	0.86	0.05	25.9	0.06	24.8	3.5	15	6.45	8.9
K306716		5.91	0.02	0.03	2.55	112	110	1.24	0.09	23.7	0.11	32.3	5.0	23	10.75	14.1
K306717		5.19	0.01	0.02	0.82	92	370	0.53	0.04	31.8	0.10	16.50	2.1	8	2.85	4.6
K306718		0.23	2.63	1.02	3.03	580	630	0.68	0.37	7.71	2.19	47.9	6.9	47	3.56	42.8
K306719		3.79	0.03	0.04	1.98	290	140	0.98	0.05	25.2	0.04	27.0	3.9	18	6.82	9.1
K306720		5.40	0.04	0.02	1.17	437	80	0.68	0.03	28.7	0.06	19.10	2.1	11	3.46	4.5
K306721		3.68	0.03	0.04	2.54	131	220	1.26	0.06	20.5	0.05	34.1	4.3	26	8.18	14.8
K306722		7.41	0.05	0.02	1.30	182	110	0.68	0.04	24.5	0.04	17.65	2.8	13	3.37	13.1
K306723		6.32	<0.01	<0.01	7.95	52.9	360	4.45	0.33	1.59	0.06	91.2	17.0	58	69.3	35.6
K306724		8.32	0.21	0.01	0.66	247	70	0.54	0.03	17.65	0.09	14.85	2.7	6	2.81	4.4
K306725		9.06	0.79	0.01	0.69	400	60	0.43	0.02	17.05	0.10	12.55	2.3	5	1.42	3.8
K306726		8.54	0.23	0.01	0.37	296	50	0.27	0.02	18.95	0.05	6.88	1.4	4	0.69	2.8
K306727		<0.02	0.23	0.01	0.38	298	50	0.26	0.02	18.95	0.06	6.96	1.5	4	0.71	2.6
K306728		11.07	0.12	0.05	0.43	462	40	0.26	0.01	19.05	1.15	8.04	1.8	6	0.84	3.6
K306729		9.49	0.04	0.06	0.44	247	30	0.28	0.01	20.0	0.08	7.68	2.6	4	0.94	3.4
K306730		8.99	0.16	0.06	0.39	915	50	0.25	0.01	19.60	0.09	6.66	2.6	3	0.64	4.8
K306731		7.00	<0.01	0.11	0.15	<5	40	0.27	0.03	21.2	0.08	1.51	0.8	2	0.41	8.0
K306732		12.00	0.25	0.12	0.44	278	30	0.21	0.03	20.0	0.08	6.91	1.9	3	0.80	6.6
K306733		9.89	0.32	0.10	0.43	502	50	0.21	0.02	20.1	0.04	6.58	1.1	3	0.77	5.4
K306734		8.11	1.54	0.10	0.68	1400	60	0.30	0.03	19.25	0.08	8.37	1.5	5	1.30	7.2
K306735		13.29	1.11	0.08	1.33	704	90	0.43	0.05	18.00	0.04	15.00	2.7	9	2.98	10.5
K306736		8.68	0.74	0.11	1.94	1320	90	0.65	0.04	15.90	0.04	22.9	2.9	16	5.85	12.4
K306737		0.23	4.33	1.01	2.96	506	770	0.64	0.42	9.55	0.58	45.0	4.8	44	2.40	32.2
K306738		6.36	0.99	0.25	0.72	398	40	0.36	0.02	19.80	0.02	11.35	1.8	7	1.65	7.2
K306739		10.76	2.52	0.23	0.76	519	40	0.32	0.03	19.60	0.15	11.25	1.6	8	2.45	8.0
K306740		10.47	0.23	0.14	1.72	131	70	0.68	0.06	18.60	0.18	19.35	2.2	15	5.58	10.4
K306741		9.71	1.14	0.09	1.31	985	70	0.30	0.04	15.80	0.86	14.60	1.6	12	3.31	5.2
K306742		5.23	1.12	0.09	1.23	1330	100	0.38	0.04	16.35	1.99	16.10	1.5	12	3.06	5.4
K306743		10.55	1.10	0.06	2.04	386	90	0.68	0.05	17.00	0.20	21.8	2.2	18	5.68	7.8
K306744		10.87	1.67	0.05	1.14	402	40	0.36	0.03	19.20	0.04	14.95	1.7	10	2.83	10.8



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 Plus Appendix Pages  
 Finalized Date: 9- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140452**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K306709		1.55	8.92	0.06	1.5	19.2	0.048	1.51	19.4	15.7	3.89	1780	1.95	0.02	4.9	13.0
K306710		1.29	8.74	0.06	2.3	10.7	0.021	1.54	17.4	18.9	3.89	1620	0.93	0.02	5.1	9.4
K306711		1.19	7.60	0.08	1.2	7.4	0.032	1.35	14.0	14.7	2.67	1070	0.56	0.01	4.2	7.3
K306712		0.44	0.66	0.52	<0.1	0.02	<0.005	0.02	0.6	1.1	12.00	201	0.15	<0.01	0.3	<0.2
K306713		0.31	2.04	0.19	0.3	1.04	0.010	0.35	6.3	3.6	0.36	237	0.51	0.01	1.3	<0.2
K306714		0.47	2.31	0.12	0.4	0.49	0.008	0.44	7.5	5.1	0.78	99	0.41	0.01	1.7	<0.2
K306715		0.75	4.74	0.12	1.0	0.33	0.015	1.01	12.7	11.1	1.47	127	0.66	0.02	3.3	3.1
K306716		1.02	7.21	0.09	1.4	0.30	0.021	1.47	16.4	18.9	1.81	148	0.69	0.02	4.6	7.1
K306717		0.38	2.39	0.10	0.4	0.16	0.009	0.47	9.0	5.1	0.71	120	0.38	0.01	1.6	<0.2
K306718		2.03	7.84	0.10	1.7	4.07	0.027	0.94	28.0	37.9	2.40	270	18.30	0.03	6.9	53.1
K306719		0.68	5.51	0.10	1.1	0.29	0.016	1.13	14.2	11.8	1.23	153	0.58	0.02	3.7	2.9
K306720		0.47	3.32	0.10	0.6	0.32	0.010	0.64	10.0	5.9	1.46	262	0.39	0.01	2.2	<0.2
K306721		0.90	7.22	0.12	1.4	0.42	0.020	1.42	17.7	17.8	2.35	204	0.87	0.02	4.9	6.0
K306722		0.80	3.66	0.11	0.8	0.31	0.011	0.72	8.9	7.2	3.49	206	0.44	0.01	2.5	<0.2
K306723		3.83	25.5	0.29	3.2	0.79	0.067	4.29	45.0	59.0	1.58	148	0.60	0.04	13.1	37.1
K306724		1.09	2.04	0.08	0.6	1.22	0.009	0.32	6.7	7.1	9.75	544	0.70	0.02	1.4	0.7
K306725		0.64	2.33	0.15	0.7	2.89	0.006	0.35	6.6	5.2	9.86	854	0.24	0.01	1.4	0.2
K306726		0.25	1.56	0.53	0.2	1.17	<0.005	0.16	3.8	3.3	11.15	520	0.11	0.01	0.7	<0.2
K306727		0.24	1.64	0.57	0.2	1.20	<0.005	0.16	3.9	3.2	10.95	521	0.10	0.01	0.7	<0.2
K306728		0.27	1.85	0.55	0.2	1.70	0.007	0.20	4.4	2.9	11.00	457	0.18	0.01	0.8	0.8
K306729		0.25	1.84	0.62	0.3	1.08	<0.005	0.20	4.1	3.3	11.65	374	0.43	0.01	0.9	2.5
K306730		1.00	1.38	0.20	0.2	3.20	0.005	0.18	3.5	2.5	10.90	535	0.33	0.01	0.8	3.9
K306731		0.48	0.43	0.14	<0.1	0.01	0.006	0.06	0.8	1.9	12.65	218	0.22	0.01	0.2	5.9
K306732		0.72	1.12	0.17	0.3	2.2	0.006	0.20	3.9	2.7	11.60	553	0.46	0.01	0.6	6.6
K306733		0.38	1.03	0.18	0.3	1.40	0.005	0.18	3.7	2.7	11.75	605	0.28	0.02	0.6	3.1
K306734		0.93	1.60	0.20	0.3	3.45	0.007	0.29	4.6	3.8	11.00	977	0.39	0.01	0.9	4.2
K306735		1.06	3.07	0.12	0.8	3.57	0.010	0.62	8.6	7.8	10.05	771	0.46	0.01	1.9	7.3
K306736		1.16	4.56	0.12	1.2	3.23	0.013	0.97	12.8	11.9	9.10	599	0.71	0.02	2.8	7.9
K306737		1.82	6.00	0.13	1.5	4.43	0.026	0.87	26.0	57.7	4.97	356	8.77	0.02	5.3	31.4
K306738		0.81	1.66	0.15	0.4	2.4	0.008	0.34	7.0	4.1	11.20	816	0.51	0.01	1.1	5.3
K306739		1.78	1.93	0.10	0.5	6.06	0.009	0.36	6.5	6.0	10.60	1190	0.70	0.01	1.2	4.9
K306740		1.50	3.61	0.10	1.1	1.49	0.010	0.85	10.8	9.5	10.15	737	0.79	0.02	2.4	6.5
K306741		1.26	2.92	0.12	0.9	3.78	0.011	0.60	7.1	6.3	8.92	879	0.81	0.01	1.9	5.0
K306742		1.32	2.77	0.10	0.9	3.96	0.013	0.56	6.8	6.3	9.19	906	0.80	0.01	1.8	5.2
K306743		1.81	4.59	0.13	1.4	3.47	0.012	0.92	12.8	9.9	9.14	853	0.85	0.02	2.9	6.2
K306744		1.49	2.74	0.10	0.8	7.2	0.009	0.52	8.3	6.0	9.76	997	0.45	0.01	1.7	4.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 9- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140452**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306709		560	16.1	56.2	0.002	1.99	3.53	5.6	2	1.3	186.0	0.35	<0.05	6.2	0.120	53.5
K306710		410	8.4	59.4	0.002	0.92	1.70	6.0	2	1.1	132.0	0.38	<0.05	7.4	0.130	31.4
K306711		390	8.0	51.4	0.002	1.22	1.84	4.6	2	1.0	393	0.30	<0.05	5.6	0.102	23.2
K306712		170	1.1	1.0	<0.002	0.01	<0.05	0.4	1	<0.2	44.5	<0.05	<0.05	<0.2	<0.005	0.05
K306713		120	5.8	13.5	<0.002	0.29	0.33	1.5	1	0.3	1145	0.08	<0.05	1.5	0.026	3.49
K306714		140	7.0	16.7	<0.002	0.30	0.18	1.8	2	0.3	1070	0.09	<0.05	1.8	0.034	1.34
K306715		240	7.3	37.2	0.002	0.28	0.19	3.4	2	0.6	706	0.22	<0.05	4.3	0.075	0.67
K306716		350	8.6	55.0	0.002	0.39	0.22	5.0	2	0.9	590	0.33	<0.05	6.2	0.109	0.85
K306717		160	4.5	17.7	<0.002	0.14	0.15	1.8	2	0.3	780	0.10	<0.05	1.9	0.034	0.74
K306718		830	37.2	45.4	0.021	1.45	94.8	5.3	4	2.2	68.1	0.46	0.18	6.9	0.164	4.02
K306719		280	7.1	42.4	0.002	0.23	0.26	3.9	2	0.8	850	0.25	<0.05	4.9	0.087	1.29
K306720		140	4.5	22.7	0.002	0.10	0.25	2.4	2	0.4	792	0.15	<0.05	2.9	0.050	1.49
K306721		480	8.0	52.9	0.002	0.33	0.39	4.9	3	0.9	501	0.34	<0.05	6.4	0.114	1.04
K306722		150	5.9	25.7	<0.002	0.20	0.18	2.6	2	0.5	929	0.17	<0.05	3.3	0.057	0.74
K306723		630	19.5	182.5	<0.002	2.90	0.46	19.1	2	2.7	65.0	0.94	0.05	16.7	0.384	2.57
K306724		1600	4.4	11.7	<0.002	0.45	0.40	1.7	1	0.2	91.8	0.08	<0.05	1.9	0.032	2.55
K306725		720	3.0	10.7	<0.002	0.05	0.49	1.5	1	0.3	90.2	0.09	<0.05	1.9	0.030	4.34
K306726		140	3.2	4.9	<0.002	0.03	0.51	0.9	1	0.2	105.0	<0.05	<0.05	0.8	0.014	2.96
K306727		140	3.3	5.0	<0.002	0.03	0.51	0.9	1	0.2	104.5	<0.05	<0.05	0.8	0.014	3.03
K306728		230	4.7	6.3	<0.002	0.14	0.60	0.9	1	0.2	104.5	<0.05	<0.05	0.9	0.016	2.52
K306729		100	6.4	6.3	0.002	0.14	0.56	1.0	1	0.2	90.7	0.05	<0.05	1.1	0.018	2.65
K306730		130	10.2	5.6	<0.002	0.85	1.35	0.9	2	0.2	76.0	<0.05	<0.05	0.9	0.015	8.43
K306731		200	5.3	3.7	<0.002	0.01	0.11	0.3	1	0.2	44.9	<0.05	<0.05	<0.2	0.005	0.05
K306732		120	12.6	5.9	<0.002	0.57	1.11	0.7	1	0.3	82.0	0.05	<0.05	0.9	0.019	6.73
K306733		110	6.5	5.6	0.002	0.07	0.56	0.7	1	0.3	86.5	0.05	<0.05	0.9	0.019	5.55
K306734		180	6.7	8.8	0.002	0.17	1.03	1.0	1	0.4	102.0	0.07	<0.05	1.3	0.028	13.45
K306735		240	8.2	20.5	0.002	0.39	0.81	2.0	1	0.5	96.9	0.15	<0.05	2.6	0.056	10.85
K306736		470	11.1	33.4	<0.002	0.52	0.79	2.8	2	0.7	77.7	0.25	<0.05	4.2	0.084	10.95
K306737		540	9.9	46.0	0.005	1.51	88.7	4.4	2	2.5	56.0	0.40	0.11	6.1	0.154	2.74
K306738		280	11.0	11.2	0.003	0.48	0.91	1.1	1	0.3	82.9	0.09	<0.05	1.5	0.031	7.32
K306739		250	9.6	12.8	<0.002	0.46	0.88	1.3	1	0.4	68.8	0.11	<0.05	1.7	0.033	18.65
K306740		330	9.0	26.6	0.002	0.45	0.38	2.5	1	0.6	78.0	0.19	<0.05	3.6	0.076	5.45
K306741		450	5.5	19.9	<0.002	0.50	1.25	1.9	1	0.5	64.7	0.15	<0.05	2.6	0.056	10.85
K306742		460	5.8	19.0	<0.002	0.59	1.36	2.0	1	0.5	68.2	0.15	<0.05	2.5	0.051	10.70
K306743		290	6.7	30.9	0.002	0.44	1.21	3.0	2	0.7	95.2	0.25	<0.05	4.1	0.088	13.20
K306744		230	4.8	18.8	<0.002	0.35	0.91	1.9	1	0.5	79.5	0.13	<0.05	2.4	0.048	14.50



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140452**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
K306709		30.5	80	3.4	9.6	104	52.7	1.650
K306710		13.5	48	3.1	11.3	30	76.8	
K306711		19.1	37	2.4	10.5	34	43.0	0.932
K306712		0.6	2	0.1	0.9	16	<0.5	
K306713		15.4	11	0.8	4.8	22	9.5	
K306714		13.7	13	0.9	4.6	20	14.4	
K306715		11.2	26	1.4	8.4	21	36.2	
K306716		10.4	40	1.7	10.8	21	47.4	
K306717		9.8	14	0.7	5.5	15	16.3	
K306718		8.5	219	23.7	19.0	203	64.5	
K306719		10.5	33	1.2	9.1	18	39.0	
K306720		13.5	19	1.3	6.5	11	23.8	
K306721		8.9	41	2.4	12.5	18	49.3	
K306722		11.0	20	1.0	5.9	10	26.5	
K306723		3.4	102	2.1	26.3	48	108.0	
K306724		3.4	10	0.6	10.0	16	23.4	
K306725		3.8	11	0.6	6.5	22	24.0	
K306726		5.4	7	0.5	2.9	21	6.3	
K306727		5.7	8	0.5	2.8	21	6.3	
K306728		14.0	12	0.7	3.3	255	6.8	
K306729		12.4	10	0.8	2.7	21	9.4	
K306730		11.6	7	0.7	2.5	30	8.8	
K306731		0.7	3	0.1	0.9	14	0.5	
K306732		10.3	9	0.7	2.5	13	8.5	
K306733		7.7	10	0.6	2.6	11	10.2	
K306734		9.0	14	1.0	3.3	28	12.2	
K306735		9.7	23	1.2	5.3	13	26.7	
K306736		11.5	29	1.7	8.2	25	36.3	
K306737		6.0	97	69.4	14.7	71	46.5	
K306738		16.2	26	0.8	4.4	3	11.2	
K306739		19.2	26	0.9	4.3	26	13.9	
K306740		15.1	31	1.2	6.6	64	33.6	
K306741		17.8	37	1.0	6.4	421	29.2	
K306742		18.3	35	0.9	6.6	871	28.2	
K306743		17.0	34	1.6	7.9	94	41.2	
K306744		16.3	20	1.1	5.8	7	24.9	



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12140452**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12149945**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 050  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
CRU- QC	Crushing QC Test
SPL- 22Y	Split Sample - Boyd Rotary Splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149945**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M667451		5.44	0.02	0.07	1.45	43	310	0.63	0.04	28.6	0.15	19.30	2.7	14	3.78	6.2
M667452		0.22	0.41	0.61	6.83	666	610	0.70	0.28	0.74	0.22	156.5	3.9	241	4.01	10.1
M667453		7.04	0.01	0.05	1.67	33	840	0.49	0.04	25.5	0.03	23.7	6.9	15	6.07	11.1
M667454		8.75	<0.01	0.04	2.67	20	140	0.80	0.07	23.3	0.08	33.9	4.3	22	12.80	13.0
M667455		10.43	0.01	0.02	2.96	6	180	0.89	0.07	20.4	0.12	36.6	4.5	25	17.85	29.7
M667456		5.25	0.01	0.02	2.84	9	150	0.88	0.06	20.2	0.12	32.8	5.4	30	16.10	40.4
M667457		10.65	0.01	0.02	4.10	10	210	1.18	0.10	12.00	0.08	49.5	6.9	46	23.0	22.6
M667458		11.55	0.01	0.05	3.89	28	320	1.10	0.08	12.25	0.08	55.2	7.6	43	16.70	22.2
M667459		11.22	0.01	0.07	4.15	17	190	1.11	0.08	11.10	0.06	57.3	6.4	50	17.05	24.7
M666574		11.43	0.01	0.04	2.83	13	240	0.89	0.08	20.3	0.06	34.2	5.8	31	8.93	21.3
M666575		9.62	0.01	0.04	3.73	11	160	1.06	0.10	17.75	0.09	53.1	6.5	40	14.25	18.8
M666576		9.96	0.01	0.05	3.81	13	160	1.10	0.09	15.95	0.09	54.4	6.1	42	14.75	20.6
M666577		10.77	0.01	0.02	2.01	22	380	0.70	0.05	23.1	0.20	25.7	4.2	22	4.93	13.2
M666578		6.88	<0.01	<0.01	0.09	7	20	0.06	0.02	21.1	0.07	1.41	1.1	2	0.56	1.7
M666579		11.51	0.01	0.03	4.22	9	170	1.23	0.11	11.80	0.08	52.9	7.4	45	11.65	22.6
M666580		10.82	0.01	0.03	3.42	14	290	1.02	0.09	21.1	0.08	41.6	6.3	35	8.58	19.0
M666581		11.72	0.01	0.03	3.29	11	100	0.94	0.09	21.4	0.08	42.0	6.2	34	8.75	23.0
M666582		11.75	0.01	0.06	2.80	15	170	0.81	0.07	21.9	0.08	37.2	5.5	30	6.20	16.0
M666583		0.22	0.34	0.31	6.15	591	240	0.53	0.25	0.47	0.21	145.0	2.8	235	3.61	30.2
M666584		11.50	0.01	0.03	1.64	14	430	0.50	0.05	29.0	0.37	22.8	3.5	20	2.92	12.8
M666585		11.46	<0.01	0.03	1.64	14	70	0.49	0.04	28.7	0.33	25.0	3.5	19	2.38	10.5
M666586		11.07	<0.01	0.03	1.50	8	60	0.50	0.04	29.4	0.26	19.60	3.2	17	2.21	10.9
M666587		11.69	<0.01	0.05	1.95	13	280	0.59	0.04	25.9	0.60	26.5	3.8	23	2.80	14.9
M666588		11.96	<0.01	0.02	2.18	15	860	0.68	0.06	25.0	0.23	29.9	4.5	26	3.95	19.9
M666589		<0.02	<0.01	0.04	2.18	22	730	0.68	0.05	25.6	0.26	32.7	4.3	26	4.35	19.3
M666590		9.26	<0.01	0.07	2.99	25	190	0.80	0.09	23.3	0.05	36.6	5.5	25	14.00	9.2
M666591		9.97	<0.01	0.03	1.47	92	360	0.37	0.05	21.4	0.04	17.15	9.3	13	5.82	5.7
M666592		9.57	<0.01	0.07	4.08	34	190	1.08	0.13	19.60	0.12	46.3	7.3	32	18.55	18.9
M666593		9.57	<0.01	0.05	3.40	49	290	0.93	0.11	22.1	0.05	38.1	8.3	27	14.05	14.3
M666594		8.17	<0.01	<0.01	1.17	33	110	0.36	0.04	22.0	0.05	15.85	6.5	9	5.57	4.6
M666595		6.98	<0.01	<0.01	0.07	<5	20	0.05	0.02	20.5	0.06	1.45	1.4	2	0.28	1.9
M666596		3.77	<0.01	0.06	6.59	48.6	290	2.06	0.25	7.16	0.09	83.4	9.4	46	40.5	19.0
M666597		6.63	<0.01	<0.01	8.49	108.5	340	2.26	0.33	1.62	<0.02	110.0	8.0	70	64.5	24.7
M666598		10.37	0.01	0.02	7.37	215	310	2.09	0.28	5.45	0.07	84.3	13.8	58	61.6	28.2
M666599		9.53	0.03	0.04	7.06	88.3	340	2.36	0.29	4.49	0.12	72.6	15.2	61	55.7	30.2
M666600		5.17	0.67	0.06	2.15	336	100	0.62	0.05	22.3	0.12	25.9	3.9	24	5.12	11.4

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149945**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M667451		0.61	3.26	0.07	0.7	0.48	0.012	0.74	10.1	4.6	1.80	163	0.94	0.01	2.5	6.5
M667452		6.70	20.1	0.20	4.4	11.8	0.053	1.47	71.5	18.4	0.13	17	5.53	0.41	10.2	13.0
M667453		1.19	3.68	0.08	0.7	0.12	0.012	0.87	11.3	7.1	3.16	226	0.68	0.01	2.7	12.0
M667454		1.06	6.21	0.08	1.2	0.09	0.022	1.37	17.0	15.3	2.57	248	0.61	0.02	4.5	11.2
M667455		1.25	6.92	0.08	1.5	0.1	0.020	1.60	18.3	16.6	3.52	276	0.32	0.02	4.9	11.9
M667456		1.17	7.67	0.08	1.1	0.06	0.019	1.51	15.4	23.7	3.38	276	0.32	0.02	5.3	11.8
M667457		1.73	9.58	0.09	2.3	0.08	0.026	2.22	23.3	28.6	3.68	248	0.42	0.03	6.5	16.2
M667458		1.78	9.68	0.10	2.0	0.08	0.031	2.01	26.5	26.1	4.32	252	0.66	0.02	8.5	17.0
M667459		1.77	10.15	0.10	2.1	0.07	0.038	2.16	28.0	29.6	5.84	281	1.01	0.04	8.9	16.7
M666574		1.25	6.93	0.08	1.3	0.04	0.019	1.31	15.6	75.9	2.77	331	0.47	0.13	4.7	11.5
M666575		1.63	8.77	0.09	1.9	0.04	0.029	1.64	24.9	72.8	3.09	363	0.50	0.22	7.0	14.9
M666576		1.65	8.92	0.09	2.2	0.04	0.032	1.74	25.9	103.5	3.38	391	0.41	0.12	7.6	14.6
M666577		0.94	5.09	0.07	0.9	0.1	0.014	0.90	12.3	59.1	2.39	456	0.40	0.02	4.0	9.1
M666578		0.50	0.28	0.05	<0.1	<0.01	0.005	0.04	0.6	1.4	12.85	221	0.10	0.01	0.4	2.2
M666579		1.93	10.25	0.10	2.1	0.07	0.032	1.87	24.9	142.0	5.23	461	0.56	0.05	7.8	17.0
M666580		1.45	8.32	0.08	1.5	0.04	0.025	1.36	20.0	84.5	3.03	663	0.42	0.19	6.5	14.1
M666581		1.42	7.93	0.08	1.4	0.05	0.026	1.16	20.1	65.3	2.57	808	0.31	0.26	6.4	13.8
M666582		1.24	6.98	0.08	1.3	<0.1	0.022	0.95	17.4	55.0	2.77	852	0.53	0.26	5.6	12.2
M666583		6.47	19.90	0.20	3.9	10.1	0.048	1.32	65.0	20.1	0.12	37	6.83	0.36	10.9	15.4
M666584		0.74	3.99	0.07	0.7	0.07	0.013	0.54	11.4	47.1	1.19	1260	0.86	0.23	3.4	7.0
M666585		0.71	4.23	0.07	0.7	0.04	0.015	0.49	12.3	28.0	1.39	1260	0.56	0.24	3.7	7.4
M666586		0.65	3.81	0.06	0.6	0.05	0.012	0.45	9.7	29.5	1.17	1260	0.46	0.21	3.0	7.1
M666587		0.91	5.05	0.08	0.9	0.06	0.016	0.63	13.1	36.9	2.21	1560	0.65	0.24	4.4	9.0
M666588		0.93	5.24	0.06	1.0	0.08	0.015	0.71	13.9	37.8	1.62	2130	0.42	0.24	3.6	9.3
M666589		0.93	5.08	0.07	1.1	0.07	0.016	0.70	15.1	36.3	1.62	2180	0.44	0.24	3.8	9.2
M666590		1.60	7.17	0.08	1.4	0.05	0.029	1.54	17.3	9.2	2.06	376	0.50	0.02	5.6	11.0
M666591		4.31	3.60	0.10	0.6	0.1	0.013	0.75	8.3	4.6	6.33	549	0.33	0.01	2.6	14.2
M666592		1.35	10.20	0.09	1.7	0.09	0.038	2.10	22.4	11.8	3.47	285	0.44	0.03	7.3	13.2
M666593		1.65	8.29	0.09	1.4	0.09	0.028	1.74	18.1	10.0	2.48	399	0.47	0.02	5.5	12.7
M666594		1.83	2.74	0.08	0.5	0.03	0.012	0.59	7.5	4.2	7.55	493	0.17	0.02	2.0	7.6
M666595		0.46	0.24	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.2	12.45	211	0.10	<0.01	0.3	2.0
M666596		2.35	17.70	0.13	3.0	0.14	0.058	3.43	41.8	20.3	3.07	582	0.85	0.05	11.6	19.3
M666597		3.01	23.7	0.14	3.4	0.20	0.077	4.60	54.8	28.0	1.21	199	0.32	0.04	15.2	27.2
M666598		3.16	20.4	0.14	2.9	0.3	0.070	4.02	42.2	24.2	2.62	416	0.48	0.04	14.0	30.8
M666599		2.48	19.55	0.12	3.1	1.26	0.057	3.98	34.7	36.3	2.50	410	0.52	0.04	12.1	26.4
M666600		0.90	5.28	0.08	1.0	1.94	0.014	1.06	12.0	8.7	2.99	416	0.75	0.01	3.8	7.9

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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149945**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M667451		200	26.8	25.0	<0.002	0.15	0.19	2.4	2	0.5	644	0.18	<0.05	3.0	0.064	0.74
M667452		1010	14.9	49.1	0.003	3.37	113.5	15.4	2	2.3	575	0.79	0.13	10.0	0.558	8.37
M667453		200	4.2	28.1	<0.002	0.25	0.21	2.6	2	0.5	529	0.19	<0.05	3.4	0.073	0.29
M667454		290	4.7	48.2	<0.002	0.43	0.15	4.3	2	0.9	383	0.33	<0.05	5.6	0.117	0.36
M667455		310	5.3	57.3	<0.002	0.18	0.14	4.6	2	1.0	432	0.37	<0.05	6.3	0.131	0.36
M667456		290	10.2	59.3	<0.002	0.17	0.13	4.9	2	1.0	433	0.29	<0.05	5.6	0.124	0.31
M667457		490	10.6	71.8	<0.002	0.26	0.18	6.1	2	1.2	192.5	0.58	<0.05	9.4	0.185	0.50
M667458		430	8.6	85.7	<0.002	0.19	0.24	5.7	2	1.6	208	0.50	<0.05	6.9	0.171	0.40
M667459		490	9.8	88.2	<0.002	0.20	0.34	6.0	3	1.7	163.5	0.55	<0.05	7.9	0.184	0.44
M666574		330	8.7	58.2	<0.002	0.09	0.23	4.5	2	0.9	535	0.34	<0.05	6.4	0.124	0.39
M666575		420	9.4	74.7	<0.002	0.07	0.27	5.6	2	1.4	369	0.53	<0.05	7.6	0.163	0.41
M666576		450	9.3	78.2	<0.002	0.08	0.27	5.6	2	1.5	332	0.55	<0.05	7.8	0.173	0.41
M666577		300	6.7	40.8	<0.002	0.16	0.17	3.1	2	0.7	553	0.22	<0.05	3.9	0.088	0.28
M666578		170	1.9	2.7	<0.002	0.02	<0.05	0.4	1	0.2	50.0	<0.05	<0.05	<0.2	<0.005	<0.02
M666579		420	9.5	82.9	<0.002	0.12	0.28	6.0	2	1.5	279	0.55	<0.05	9.1	0.188	0.47
M666580		320	8.4	64.7	<0.002	0.07	0.22	5.2	2	1.2	489	0.43	<0.05	6.5	0.145	0.34
M666581		370	7.1	54.1	<0.002	0.06	0.20	4.9	2	1.2	474	0.42	<0.05	6.2	0.141	0.25
M666582		310	8.3	44.2	<0.002	0.12	0.22	4.3	2	1.0	552	0.34	<0.05	5.6	0.123	0.22
M666583		890	16.4	45.2	0.003	2.93	114.0	14.3	2	2.9	508	0.73	0.13	9.2	0.532	7.07
M666584		230	9.0	23.5	<0.002	0.14	0.33	2.7	2	0.6	906	0.20	<0.05	3.2	0.072	0.17
M666585		190	9.4	23.2	<0.002	0.11	0.17	2.6	2	0.7	847	0.20	<0.05	3.0	0.070	0.11
M666586		190	10.0	19.3	<0.002	0.09	0.16	2.5	2	0.5	977	0.17	<0.05	3.0	0.065	0.11
M666587		230	10.3	27.5	<0.002	0.15	0.18	3.0	2	0.7	978	0.24	<0.05	3.6	0.089	0.13
M666588		340	13.8	25.0	<0.002	0.16	0.16	3.4	2	0.7	904	0.29	<0.05	5.1	0.095	0.21
M666589		340	13.2	25.5	<0.002	0.16	0.18	3.3	2	0.8	925	0.30	<0.05	4.9	0.094	0.19
M666590		480	5.9	64.0	<0.002	0.02	0.23	4.9	1	1.0	643	0.34	<0.05	4.8	0.129	0.39
M666591		440	3.7	28.1	<0.002	0.02	0.17	2.6	1	0.5	237	0.14	<0.05	2.3	0.063	0.34
M666592		680	6.6	89.4	<0.002	0.04	0.29	6.8	1	1.3	565	0.40	0.05	6.2	0.176	0.53
M666593		540	6.5	66.7	<0.002	0.06	0.29	5.8	1	1.0	431	0.35	<0.05	5.8	0.149	0.59
M666594		400	3.3	21.5	<0.002	0.02	0.10	2.2	1	0.4	157.0	0.13	<0.05	2.1	0.052	0.21
M666595		170	1.5	1.6	<0.002	0.01	<0.05	0.4	1	<0.2	45.6	<0.05	<0.05	<0.2	<0.005	<0.02
M666596		1650	13.1	145.5	<0.002	0.41	0.56	11.7	1	2.1	115.5	0.72	0.08	11.5	0.310	1.05
M666597		1440	7.8	181.0	<0.002	0.81	0.32	16.6	1	3.0	96.2	1.03	0.18	15.6	0.428	1.86
M666598		2050	11.2	159.0	<0.002	1.28	0.61	12.8	1	2.7	103.5	0.84	0.11	11.1	0.368	2.14
M666599		1770	15.5	130.5	0.002	1.21	0.50	12.7	1	2.1	84.2	0.85	<0.05	12.8	0.376	3.05
M666600		260	6.3	36.4	<0.002	0.42	0.25	3.2	2	0.7	363	0.25	<0.05	4.7	0.093	7.44

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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149945**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M667451		13.7	24	0.7	5.7	37	20.1
M667452		7.9	177	35.5	15.2	43	148.0
M667453		7.9	26	0.4	6.8	12	21.4
M667454		8.2	35	0.6	10.1	22	36.7
M667455		3.4	39	0.6	10.9	26	44.2
M667456		3.3	38	0.4	10.8	23	43.2
M667457		4.5	54	0.8	12.4	36	58.0
M667458		4.9	56	0.7	15.8	45	70.7
M667459		4.8	61	0.8	16.0	35	73.1
M666574		10.8	36	0.5	9.4	44	36.5
M666575		7.4	48	0.8	12.8	57	54.1
M666576		7.5	51	0.9	13.4	58	63.0
M666577		5.5	27	1.0	8.8	36	35.7
M666578		0.6	3	0.1	1.0	13	<0.5
M666579		5.8	57	1.1	14.2	65	65.6
M666580		8.7	44	0.7	11.4	50	45.4
M666581		8.4	42	0.6	11.4	51	44.1
M666582		10.1	36	0.6	10.4	42	43.7
M666583		7.5	163	20.1	14.9	45	151.5
M666584		12.4	23	0.3	6.7	52	26.4
M666585		13.1	24	0.3	7.5	48	25.3
M666586		12.6	21	0.3	5.9	44	20.5
M666587		11.5	29	0.4	8.3	57	32.1
M666588		12.1	30	0.4	7.8	69	26.2
M666589		11.7	30	0.4	8.2	67	27.4
M666590		6.5	41	0.6	12.1	19	48.1
M666591		4.0	20	0.3	7.0	31	21.3
M666592		5.7	53	0.7	14.3	21	63.8
M666593		7.0	45	0.7	11.9	18	47.0
M666594		2.3	16	0.7	5.6	22	16.4
M666595		0.4	3	0.1	0.9	14	<0.5
M666596		5.9	88	3.6	27.3	28	102.5
M666597		3.7	120	3.0	29.1	31	111.5
M666598		2.9	95	4.8	29.0	32	102.0
M666599		4.8	96	3.1	24.0	55	95.5
M666600		12.7	32	1.3	7.8	42	34.2



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**CERTIFICATE OF ANALYSIS WH12149945**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12149946**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 053  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149946**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666930		11.03	<0.01	0.14	4.69	170	280	1.33	0.20	15.45	0.03	83.4	7.9	39	11.10	19.9
M666931		9.45	<0.01	0.12	3.90	179	220	1.19	0.17	17.15	0.04	66.2	6.5	35	9.26	16.9
M666932		10.23	<0.01	0.14	4.42	183	260	1.29	0.18	13.25	0.03	92.0	8.2	40	11.05	18.7
M666933		6.89	<0.01	0.03	0.07	6	10	0.08	0.19	20.8	0.07	1.58	1.3	<1	0.36	4.6
M666934		4.16	<0.01	0.12	3.99	639	290	1.26	0.16	19.05	0.02	60.4	6.9	32	9.55	19.3
M666935		6.23	<0.01	0.09	3.85	582	370	0.92	0.16	14.85	0.02	53.3	7.1	35	7.69	14.9
M666936		5.84	0.01	0.06	1.51	459	1370	0.41	0.06	19.45	<0.02	24.6	3.8	14	2.82	7.8
M666937		7.35	<0.01	0.07	2.16	270	260	0.50	0.09	16.80	0.02	50.8	5.4	22	4.06	10.3
M666938		6.77	<0.01	0.16	2.62	336	760	0.68	0.11	19.90	<0.02	40.6	4.9	24	5.28	13.8
M666939		10.32	<0.01	0.23	4.07	245	1000	0.88	0.18	13.45	0.03	50.0	6.9	37	7.83	15.2
M666940		9.75	<0.01	0.35	4.73	79.6	260	1.02	0.21	8.47	<0.02	69.5	7.9	51	9.21	17.3
M666941		6.88	<0.01	<0.01	0.07	<5	20	<0.05	0.03	20.7	0.06	1.08	1.4	1	0.14	1.3
M666942		9.83	<0.01	0.15	5.97	41.8	230	1.43	0.28	7.28	<0.02	70.1	9.5	56	12.75	18.3
M666943		10.84	<0.01	0.13	3.77	27	310	0.85	0.16	12.55	4.85	41.9	8.2	33	9.11	24.6
M666944		5.97	<0.01	0.17	1.89	13	90	0.49	0.08	13.95	4.71	27.3	6.0	14	4.51	17.9
M666945		5.33	<0.01	0.20	7.14	50.5	680	1.75	0.32	5.20	0.34	77.2	12.2	63	16.95	21.0
M666946		0.20	0.35	0.39	6.56	618	390	0.60	0.32	0.48	0.17	140.5	3.1	238	3.58	32.4
M666947		10.69	0.02	0.16	4.35	61	220	0.91	0.18	13.55	0.03	77.5	8.4	41	9.37	17.5
M666948		9.97	<0.01	0.25	4.12	54	330	0.88	0.17	11.90	0.06	82.9	8.0	44	7.73	15.0
M666949		10.33	<0.01	0.13	3.46	20	160	0.78	0.15	16.00	0.06	46.5	6.2	32	7.07	13.2
M666950		10.59	<0.01	0.12	5.49	24	250	1.25	0.25	10.95	0.07	70.7	9.9	48	11.70	20.6
M667401		10.80	<0.01	0.12	3.50	10	170	0.84	0.15	16.25	0.07	57.5	6.9	35	7.63	14.5
M667402		5.81	<0.01	0.13	8.53	31.1	590	2.57	0.42	3.07	0.02	81.4	10.3	67	25.3	29.5
M667403		0.20	0.42	0.60	6.82	635	370	0.61	0.29	0.69	0.22	142.5	4.5	246	3.63	16.8
M667404		6.05	<0.01	0.14	5.02	14	270	1.19	0.22	14.35	0.02	65.2	9.9	40	13.25	19.3
M667405		9.91	<0.01	0.07	3.91	14	170	0.94	0.17	20.9	0.03	48.7	6.4	35	10.05	13.9
M667406		10.11	<0.01	0.09	3.12	19	210	0.67	0.13	20.8	0.08	52.1	5.2	28	7.77	11.1
M667407		6.18	<0.01	0.10	3.06	15	170	0.67	0.13	22.8	0.08	48.3	4.9	27	7.88	11.0
M667408		11.06	0.01	0.09	2.61	12	270	0.63	0.13	19.95	0.06	45.4	4.5	25	6.53	10.0
M667409		11.03	<0.01	0.09	2.98	29	320	0.67	0.12	29.1	0.04	32.9	4.9	26	12.65	12.2
M667410		4.91	0.01	0.05	2.23	7	160	0.61	0.09	29.5	0.04	23.9	3.7	19	9.15	8.3
M667411		8.79	<0.01	0.12	3.69	20	400	0.85	0.15	23.3	0.19	37.7	6.2	30	15.25	13.9
M667412		9.00	<0.01	0.15	8.59	25.3	330	2.55	0.43	2.86	0.10	69.3	16.8	65	41.9	37.5
M667413		11.40	<0.01	0.05	8.97	24.1	370	2.70	0.46	1.70	0.02	78.1	16.5	74	51.4	37.7
M667414		11.31	<0.01	0.09	7.65	35.0	340	2.19	0.36	7.53	0.04	76.3	20.3	51	44.9	31.6
M667415		<0.02	<0.01	0.09	7.63	33.1	330	1.97	0.33	7.44	0.03	77.0	19.3	52	42.8	27.9





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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M666930		1.87	11.40	0.08	2.6	0.13	0.042	2.25	40.5	13.4	0.46	250	0.36	0.03	8.3	17.5
M666931		2.11	9.37	0.08	2.2	0.14	0.034	1.90	32.2	11.0	1.13	569	0.34	0.03	6.8	14.2
M666932		1.92	10.80	0.09	2.5	0.18	0.039	2.14	44.3	12.5	0.41	204	0.37	0.03	8.2	18.0
M666933		0.48	0.37	0.27	<0.1	<0.01	<0.005	0.03	0.8	1.2	12.70	216	0.17	<0.01	0.4	0.9
M666934		2.78	9.31	0.07	2.0	0.24	0.034	1.91	30.1	11.4	1.50	815	0.39	0.02	6.3	16.1
M666935		2.50	9.00	0.05	2.0	0.21	0.031	1.89	26.0	9.2	1.78	337	0.46	0.03	6.7	15.5
M666936		2.55	3.63	<0.05	0.8	0.17	0.015	0.72	10.9	4.0	7.27	650	0.30	0.01	2.6	6.3
M666937		2.54	5.08	0.05	1.3	0.27	0.024	1.00	23.7	5.1	4.53	583	0.32	0.02	4.4	10.0
M666938		2.93	6.03	<0.05	1.4	0.17	0.025	1.20	18.7	5.8	3.05	888	0.30	0.02	4.3	10.0
M666939		3.19	9.25	0.05	2.1	0.25	0.031	1.89	25.5	10.0	4.02	660	0.34	0.02	6.8	16.1
M666940		3.03	11.10	0.06	2.6	0.20	0.031	2.24	34.9	11.4	3.88	646	0.39	0.03	8.7	18.6
M666941		0.47	0.35	0.26	<0.1	<0.01	0.005	0.03	0.5	1.0	12.65	215	0.10	<0.01	0.3	0.3
M666942		2.84	14.70	0.08	3.0	0.20	0.041	2.84	36.4	14.5	3.75	527	0.40	0.03	10.2	22.1
M666943		3.75	10.20	0.06	1.7	1.11	0.042	1.79	21.1	8.9	6.59	732	0.36	0.02	5.6	19.2
M666944		11.45	5.12	0.21	0.8	2.5	0.058	0.87	11.9	4.3	6.36	657	0.33	0.01	2.9	14.1
M666945		2.44	18.40	0.12	3.8	0.19	0.042	3.51	41.6	18.3	1.84	250	0.36	0.03	12.8	26.2
M666946		6.87	21.5	0.18	4.5	8.8	0.048	1.39	67.7	19.6	0.13	38	7.61	0.39	10.8	17.2
M666947		1.92	10.25	0.06	2.4	0.11	0.033	2.07	37.7	9.4	0.98	254	0.34	0.02	8.3	17.8
M666948		1.74	9.74	0.06	2.4	0.22	0.032	1.96	40.2	8.4	0.92	330	0.43	0.02	8.4	16.6
M666949		3.00	8.02	<0.05	1.7	0.14	0.029	1.71	22.9	7.7	3.14	671	0.35	0.02	5.8	12.6
M666950		2.12	13.25	0.06	2.8	0.15	0.043	2.73	35.5	11.6	1.24	319	0.40	0.04	9.7	22.1
M667401		1.82	8.06	0.06	1.8	0.14	0.028	1.74	27.9	8.7	1.60	452	0.31	0.02	6.5	15.9
M667402		2.13	22.7	0.20	3.7	0.18	0.059	4.36	42.6	23.8	1.03	169	0.41	0.04	14.4	24.3
M667403		6.51	22.4	0.19	4.3	10.7	0.045	1.43	67.8	18.9	0.13	16	5.83	0.41	10.7	14.8
M667404		2.15	11.65	0.06	2.4	0.13	0.046	2.44	32.6	11.3	1.19	310	0.32	0.03	8.4	20.1
M667405		2.01	9.01	<0.05	1.9	0.11	0.028	1.92	24.6	8.6	1.22	499	0.27	0.03	6.5	11.8
M667406		1.68	7.05	0.05	1.6	0.28	0.023	1.55	25.8	7.3	0.63	193	0.29	0.02	5.3	9.4
M667407		1.51	6.91	<0.05	1.6	0.25	0.022	1.51	24.7	7.1	0.65	218	0.27	0.02	5.3	8.3
M667408		1.49	5.96	<0.05	1.4	0.35	0.019	1.29	22.6	7.5	1.15	269	0.30	0.02	4.6	7.2
M667409		1.39	6.70	<0.05	1.0	0.23	0.021	1.42	16.5	7.8	0.78	226	0.40	0.02	4.1	8.6
M667410		1.21	5.12	<0.05	0.8	0.07	0.017	1.08	12.5	6.2	1.62	380	0.25	0.03	3.1	4.4
M667411		2.34	8.33	<0.05	1.2	0.15	0.027	1.79	19.2	7.4	1.57	438	0.69	0.02	4.6	11.6
M667412		3.82	24.3	0.14	2.8	0.10	0.065	4.66	35.1	18.2	1.53	351	0.61	0.04	12.3	39.4
M667413		3.08	25.7	0.17	3.1	0.05	0.068	4.88	40.2	26.0	1.24	342	0.52	0.04	13.1	35.8
M667414		3.38	20.8	0.12	2.9	0.04	0.061	4.04	42.0	23.4	2.22	604	0.95	0.04	11.3	35.0
M667415		3.27	19.15	0.10	2.7	0.04	0.057	3.93	42.5	21.3	2.23	584	0.90	0.04	10.5	33.0



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 Account: RCMP

Project: Rackla Gold- Area B

<b>CERTIFICATE OF ANALYSIS WH12149946</b>
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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666930		160	15.2	107.0	<0.002	0.25	0.60	7.4	1	1.5	301	0.60	<0.05	9.9	0.276	1.46
M666931		570	14.2	89.6	<0.002	0.63	0.49	6.1	1	1.2	269	0.49	<0.05	8.0	0.216	1.31
M666932		170	17.5	102.0	0.002	0.77	0.60	7.1	2	1.5	269	0.61	<0.05	9.9	0.294	1.58
M666933		180	1.2	2.0	<0.002	0.02	0.05	0.3	1	<0.2	43.7	<0.05	<0.05	<0.2	<0.005	<0.02
M666934		600	22.7	86.3	0.002	1.02	0.62	6.0	2	1.2	292	0.45	<0.05	7.6	0.190	4.88
M666935		330	20.7	78.3	0.002	0.35	0.58	5.9	2	1.1	243	0.47	<0.05	7.8	0.222	2.59
M666936		100	10.6	27.0	<0.002	0.36	0.30	2.5	2	0.5	142.5	0.18	<0.05	2.9	0.084	2.21
M666937		140	20.1	35.5	<0.002	0.61	0.41	3.9	3	0.6	209	0.31	<0.05	4.8	0.178	1.27
M666938		650	27.0	43.4	0.002	0.75	0.43	4.3	3	0.7	184.0	0.30	<0.05	5.0	0.137	1.44
M666939		280	35.7	71.8	<0.002	1.31	0.64	6.2	2	1.2	128.0	0.46	<0.05	7.7	0.204	1.59
M666940		570	31.9	87.4	<0.002	1.20	0.70	7.1	1	1.4	106.0	0.62	<0.05	9.6	0.300	1.97
M666941		150	1.2	1.2	<0.002	0.01	<0.05	0.3	1	<0.2	41.5	<0.05	<0.05	<0.2	<0.005	<0.02
M666942		250	36.2	114.0	<0.002	1.45	0.68	9.4	2	1.8	80.5	0.73	<0.05	11.6	0.330	2.54
M666943		360	41.7	66.7	<0.002	2.24	0.55	5.6	1	1.1	87.5	0.40	<0.05	6.9	0.174	2.16
M666944		520	31.8	30.7	<0.002	>10.0	0.29	2.8	2	0.7	85.7	0.19	<0.05	3.3	0.083	3.09
M666945		200	33.5	126.0	<0.002	1.73	0.72	10.8	2	2.2	88.8	0.90	<0.05	14.4	0.384	2.84
M666946		960	17.5	49.3	0.004	3.12	121.0	16.8	2	3.1	537	0.77	0.15	10.2	0.565	8.54
M666947		240	26.1	84.5	<0.002	1.51	0.69	6.7	2	1.3	251	0.58	<0.05	9.0	0.306	2.14
M666948		370	23.9	77.3	<0.002	1.21	0.62	6.5	1	1.3	212	0.59	<0.05	9.0	0.341	1.95
M666949		210	20.4	66.6	<0.002	1.52	0.50	5.3	1	1.0	244	0.39	<0.05	6.4	0.187	1.39
M666950		450	28.8	113.0	<0.002	1.60	0.72	8.7	2	1.7	219	0.69	<0.05	10.9	0.288	2.08
M667401		320	21.4	69.3	<0.002	1.20	0.50	5.5	1	1.1	281	0.44	<0.05	6.9	0.222	1.34
M667402		490	21.7	159.5	<0.002	1.25	0.66	14.0	2	2.6	112.5	0.98	0.06	14.9	0.399	1.91
M667403		990	14.7	50.9	0.004	3.25	120.0	17.0	2	2.4	548	0.75	0.15	9.7	0.558	8.84
M667404		680	22.4	98.9	<0.002	1.35	0.69	7.5	1	1.5	256	0.59	<0.05	9.5	0.252	1.38
M667405		3230	17.3	76.0	<0.002	1.40	0.36	5.8	1	1.1	363	0.44	<0.05	7.2	0.188	1.02
M667406		260	18.0	58.3	<0.002	1.47	0.34	4.6	1	0.9	505	0.38	<0.05	5.9	0.185	1.10
M667407		400	17.1	57.8	<0.002	1.28	0.31	4.5	1	0.9	564	0.36	<0.05	5.8	0.173	1.06
M667408		210	14.5	50.4	<0.002	1.15	0.34	4.1	1	0.8	383	0.31	<0.05	5.3	0.159	1.10
M667409		550	10.2	53.3	<0.002	1.22	0.23	4.7	2	0.8	620	0.26	<0.05	4.4	0.114	1.19
M667410		710	8.0	41.2	<0.002	0.68	0.15	3.6	1	0.6	682	0.20	<0.05	3.6	0.087	0.57
M667411		200	26.2	63.9	0.002	1.30	0.31	5.8	1	1.0	519	0.32	<0.05	5.4	0.138	1.16
M667412		540	32.8	115.0	0.002	2.06	0.52	14.1	2	2.6	102.5	0.85	0.08	11.8	0.366	1.71
M667413		360	17.4	155.5	<0.002	0.76	0.46	15.7	2	2.7	106.5	0.93	0.09	13.1	0.395	1.50
M667414		680	14.9	145.0	0.002	0.83	0.60	13.4	2	2.4	237	0.78	0.07	12.5	0.330	1.17
M667415		640	13.8	154.5	<0.002	0.80	0.57	13.0	2	2.2	234	0.71	0.07	12.7	0.322	1.09

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12149946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M666930		3.4	51	1.0	16.9	42	86.9
M666931		3.0	43	1.0	14.5	50	78.6
M666932		3.1	51	1.1	16.8	35	85.7
M666933		0.5	2	0.1	0.8	15	0.5
M666934		3.5	42	1.2	13.8	30	76.9
M666935		3.5	41	1.0	14.6	30	71.4
M666936		1.4	17	0.6	10.8	18	27.2
M666937		1.6	28	1.6	13.4	29	42.5
M666938		2.4	29	1.3	14.4	10	48.5
M666939		2.5	46	2.2	14.5	20	71.2
M666940		2.4	56	2.1	15.9	9	92.1
M666941		0.4	2	0.1	0.7	13	0.5
M666942		3.0	68	2.2	15.2	14	103.5
M666943		2.4	40	1.0	11.0	1980	53.8
M666944		1.5	19	0.7	10.3	3400	26.6
M666945		3.6	80	2.4	17.0	185	124.5
M666946		8.1	170	24.9	14.7	46	179.5
M666947		3.2	50	1.7	16.7	37	86.8
M666948		2.6	53	2.4	17.6	31	87.1
M666949		2.4	40	1.0	11.7	46	56.9
M666950		3.5	64	1.7	18.1	53	103.0
M667401		2.6	42	1.2	13.2	36	60.9
M667402		2.8	98	2.7	21.3	30	133.0
M667403		7.8	174	35.7	14.3	42	174.5
M667404		3.2	55	1.4	16.4	21	83.4
M667405		2.9	40	0.9	13.0	27	68.4
M667406		3.1	33	0.8	10.7	83	52.9
M667407		3.0	31	0.8	9.9	83	53.2
M667408		2.7	28	0.8	10.2	35	47.4
M667409		3.6	30	0.6	9.3	51	36.3
M667410		3.3	22	0.5	7.9	30	29.1
M667411		3.7	37	0.8	11.2	160	41.0
M667412		4.8	95	1.7	18.4	116	97.3
M667413		3.3	101	1.9	19.7	50	109.0
M667414		4.9	91	1.6	20.4	31	101.5
M667415		4.8	88	1.4	20.0	31	96.5



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**CERTIFICATE OF ANALYSIS WH12149946**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12150396**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 057  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 29- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150396**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M667416		11.50	<0.01	0.02	9.14	19.8	540	2.68	0.36	2.15	0.02	86.5	12.7	72	57.6	33.7
M667417		6.59	<0.01	0.02	6.90	16.0	350	1.96	0.24	8.70	0.25	68.8	8.7	48	49.9	25.1
M667418		10.57	<0.01	0.04	2.75	8	480	0.82	0.09	19.00	0.12	29.0	4.8	22	16.70	30.3
M667419		11.46	<0.01	0.04	4.01	13	770	1.05	0.15	18.80	0.07	41.4	6.2	28	20.9	11.0
M667420		5.19	<0.01	0.04	3.67	16	560	0.91	0.14	19.20	0.08	37.7	5.8	26	18.85	11.6
M667421		11.60	<0.01	0.07	4.80	17	220	1.35	0.17	16.90	0.07	49.3	8.9	33	30.3	14.0
M667422		11.47	<0.01	0.07	3.67	13	220	0.93	0.13	21.2	0.04	37.0	5.8	26	19.40	17.9
M667423		11.39	<0.01	0.04	3.99	13	270	1.10	0.14	16.95	0.04	40.2	4.8	27	23.4	24.5
M667424		11.58	<0.01	0.21	4.05	18	300	1.13	0.13	17.25	0.04	43.7	6.4	28	16.60	24.1
M667425		6.91	<0.01	0.03	0.07	<5	10	0.08	0.02	21.8	0.07	1.23	0.7	1	0.36	3.2
M667426		11.55	<0.01	0.09	6.25	38.3	620	1.66	0.20	9.63	0.04	63.6	9.6	43	27.6	21.2
M667427		11.50	<0.01	0.02	1.81	9	100	0.55	0.06	18.25	0.04	20.1	4.8	13	7.85	17.2
M667428		3.98	<0.01	0.07	5.92	23.8	340	1.68	0.18	7.86	0.04	60.9	7.4	43	31.3	82.4
M667429		7.35	0.01	0.06	8.17	101.0	1010	2.75	0.36	2.34	<0.02	73.9	16.9	71	43.4	37.3
M667430		10.63	<0.01	0.01	7.87	12.1	350	2.22	0.29	2.54	0.02	72.4	7.1	66	50.8	16.4
M667431		0.26	0.36	0.30	6.42	611	160	0.59	0.25	0.47	0.18	140.0	2.8	238	3.72	30.8
M667432		11.17	<0.01	0.04	8.56	48.7	300	2.71	0.37	1.81	0.03	91.5	17.5	69	50.7	66.0
M667433		5.76	<0.01	0.06	5.91	102.0	270	1.64	0.24	8.62	0.31	66.2	22.6	36	26.8	30.5
M667434		8.14	0.01	0.09	8.80	259	370	3.48	0.38	1.61	0.31	87.1	16.8	72	39.0	36.0
M667435		6.93	<0.01	0.01	0.09	<5	10	0.06	0.04	21.0	0.09	1.40	1.4	2	0.30	2.2
M667436		7.70	0.02	0.06	3.63	159	190	1.14	0.09	12.70	0.05	38.1	6.5	33	6.13	12.5
M667437		8.12	<0.01	0.07	4.80	128	220	1.33	0.15	11.45	0.03	54.6	10.5	37	9.05	171.0
M667438		7.19	0.02	0.04	8.59	514	680	2.93	0.36	2.11	0.09	90.4	12.0	67	17.55	538
M667439		3.33	<0.01	0.06	7.20	146.0	380	2.43	0.20	6.92	0.42	86.3	18.1	49	15.85	411
M667440		4.32	<0.01	0.02	7.73	85.9	340	3.32	0.31	0.79	<0.02	87.3	13.6	66	18.75	150.5
M667441		<0.02	<0.01	0.03	8.43	87.0	350	3.15	0.31	0.85	<0.02	93.4	12.9	68	19.85	150.5
M667442		7.38	0.01	0.01	8.55	53.6	360	2.89	0.27	0.81	<0.02	94.3	13.7	71	20.1	13.5
M667443		7.74	0.02	0.03	8.48	190.5	530	2.58	0.33	0.82	<0.02	92.9	16.8	62	16.90	12.2
M667444		7.67	<0.01	0.01	8.97	41.2	290	2.52	0.32	0.62	<0.02	94.6	17.8	73	19.10	14.9
M667445		7.63	<0.01	<0.01	8.70	11.4	270	2.42	0.31	0.48	<0.02	93.6	16.5	69	20.0	12.7
M667446		8.27	<0.01	0.02	8.30	171.5	380	2.35	0.32	1.04	<0.02	93.3	17.2	66	18.90	17.9
M667447		7.73	<0.01	0.03	8.74	82.8	320	2.32	0.27	0.66	<0.02	94.2	17.7	73	19.20	17.7
M667448		0.26	0.41	0.45	6.90	658	330	0.57	0.26	0.69	0.19	152.5	4.4	242	3.75	17.7
M667449		7.92	<0.01	0.01	8.85	22.5	300	2.35	0.30	0.53	<0.02	96.4	19.4	73	19.80	11.6
M667450		7.73	<0.01	0.01	8.34	21.1	340	2.21	0.28	0.71	0.02	91.0	17.8	70	16.65	16.7
M666601		7.52	<0.01	0.03	8.64	25.3	610	2.30	0.52	0.58	<0.02	94.0	18.6	71	20.3	17.0



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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150396**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M667416		4.08	24.4	0.19	3.5	0.1	0.079	4.70	46.9	27.7	1.51	541	0.29	0.06	12.8	34.8
M667417		2.56	16.80	0.17	2.9	0.04	0.056	3.69	39.0	18.1	3.40	328	0.23	0.04	9.3	26.2
M667418		3.10	6.51	0.12	1.1	0.03	0.021	1.40	15.3	6.7	5.86	615	0.29	0.03	3.7	12.6
M667419		3.01	9.16	0.14	1.6	0.03	0.032	2.07	22.4	7.6	4.31	587	0.33	0.03	4.9	15.2
M667420		2.66	8.39	0.13	1.5	<0.1	0.031	1.94	19.6	7.0	4.08	555	0.31	0.03	4.6	14.5
M667421		1.96	11.75	0.15	2.0	<0.1	0.039	2.52	27.2	10.1	3.20	358	0.53	0.03	6.4	19.7
M667422		1.79	8.51	0.14	1.5	<0.1	0.027	1.89	20.1	7.4	2.63	374	0.41	0.03	4.7	13.6
M667423		2.15	9.46	0.17	1.6	0.03	0.029	2.07	21.5	9.4	5.63	455	0.31	0.03	5.3	13.2
M667424		2.15	9.41	0.13	1.7	<0.1	0.037	2.03	22.0	9.5	4.61	457	0.43	0.03	5.3	15.8
M667425		0.49	0.21	0.14	<0.1	<0.01	0.006	0.04	0.6	1.1	12.90	224	0.13	<0.01	0.2	1.9
M667426		2.64	15.00	0.18	2.6	0.06	0.047	3.16	34.8	14.7	4.57	456	0.67	0.04	8.2	21.6
M667427		3.20	4.40	0.10	0.8	<0.1	0.011	0.91	10.7	6.1	7.77	852	0.19	0.02	2.4	10.9
M667428		2.29	14.50	0.17	2.3	0.08	0.046	3.07	32.1	15.8	3.17	417	0.45	0.04	7.9	18.4
M667429		2.35	23.0	0.20	3.7	0.19	0.080	4.43	39.2	25.1	1.22	260	0.87	0.05	12.7	34.8
M667430		2.73	21.6	0.17	3.5	0.06	0.076	4.42	36.6	26.3	1.61	335	0.17	0.05	12.0	25.1
M667431		6.75	20.3	0.21	4.1	9.2	0.050	1.37	68.7	17.4	0.12	39	6.32	0.37	9.5	17.3
M667432		4.06	26.4	0.22	3.5	0.28	0.074	4.72	50.5	32.5	1.36	199	0.45	0.04	12.9	40.3
M667433		4.41	17.20	0.18	2.3	0.25	0.049	3.08	38.0	19.6	4.53	501	0.57	0.03	8.1	31.3
M667434		4.88	28.0	0.23	3.5	1.83	0.086	4.73	48.3	34.8	1.40	75	0.84	0.04	13.0	42.1
M667435		0.50	0.32	<0.05	<0.1	<0.01	<0.005	0.04	0.7	1.3	12.55	213	0.15	<0.01	0.3	2.4
M667436		1.91	9.88	0.06	1.9	0.43	0.025	1.77	20.7	14.5	6.71	839	0.42	0.02	5.4	11.5
M667437		2.51	13.70	0.10	2.2	1.55	0.045	2.34	29.9	26.1	5.25	1760	0.87	0.03	7.0	15.3
M667438		2.38	23.1	0.20	3.2	3.36	0.064	4.22	42.8	42.1	1.46	495	0.23	0.04	13.2	18.9
M667439		1.50	17.80	0.19	2.3	0.63	0.047	3.47	42.4	18.7	4.03	2170	0.96	0.04	9.9	14.1
M667440		2.15	25.1	0.23	3.6	0.27	0.072	4.08	41.6	42.8	0.93	220	0.24	0.06	13.6	30.2
M667441		2.34	25.2	0.21	3.8	0.27	0.078	4.24	47.9	42.4	0.99	234	0.24	0.06	13.3	29.9
M667442		3.72	23.1	0.23	3.0	0.16	0.062	4.00	44.9	102.5	1.14	399	0.18	0.04	12.5	38.8
M667443		4.18	22.3	0.23	3.0	0.49	0.058	3.89	44.5	91.3	1.02	385	0.21	0.05	12.3	39.3
M667444		4.38	25.9	0.23	3.5	0.15	0.072	4.21	52.7	116.5	1.43	289	0.23	0.06	13.2	39.1
M667445		4.61	25.4	0.22	3.4	0.05	0.070	3.93	52.7	109.0	1.37	323	0.23	0.06	12.8	36.6
M667446		4.67	25.2	0.21	3.4	0.30	0.075	3.84	52.3	116.5	1.34	328	0.21	0.06	12.7	36.5
M667447		4.78	25.5	0.23	3.5	0.23	0.074	4.01	52.6	115.0	1.35	303	0.23	0.06	13.0	38.6
M667448		6.63	24.1	0.28	4.4	11.5	0.047	1.51	77.8	18.7	0.13	16	4.88	0.42	10.3	14.0
M667449		5.02	25.6	0.23	3.4	0.06	0.077	3.79	53.5	128.5	1.45	299	0.28	0.07	12.7	38.8
M667450		4.50	24.2	0.22	3.3	0.04	0.073	3.62	50.4	119.0	1.46	309	0.26	0.06	12.5	36.9
M666601		4.85	24.5	0.22	3.4	0.05	0.073	3.69	52.9	125.0	1.47	337	0.82	0.07	12.8	36.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150396**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M667416		980	10.5	208	0.002	0.11	0.46	17.2	1	2.9	101.0	0.96	0.08	14.2	0.426	1.20
M667417		1480	7.4	158.0	0.004	0.09	0.28	12.7	1	2.2	169.0	0.75	<0.05	11.1	0.327	0.81
M667418		530	5.3	56.6	0.003	0.08	0.20	4.6	1	1.0	378	0.29	<0.05	4.7	0.116	0.39
M667419		680	5.7	83.3	0.002	0.11	0.24	6.6	<1	1.3	327	0.41	<0.05	6.2	0.174	0.51
M667420		760	6.2	75.2	0.003	0.10	0.24	6.3	1	1.2	353	0.36	<0.05	5.9	0.161	0.52
M667421		680	9.3	104.5	0.003	0.17	0.41	8.3	1	1.6	463	0.49	<0.05	7.7	0.211	0.78
M667422		560	5.4	74.1	0.002	0.09	0.25	6.1	1	1.3	531	0.36	<0.05	5.7	0.156	0.50
M667423		560	4.6	87.5	0.004	0.07	0.22	6.8	<1	1.4	360	0.40	<0.05	6.2	0.175	0.45
M667424		660	6.1	78.9	<0.002	0.11	0.25	6.8	1	1.4	365	0.40	<0.05	6.2	0.176	0.59
M667425		190	1.3	2.0	0.002	0.01	<0.05	0.3	<1	0.3	44.6	<0.05	<0.05	<0.2	<0.005	0.02
M667426		1060	8.3	126.5	0.005	0.26	0.52	10.6	1	2.0	144.0	0.66	<0.05	9.7	0.275	0.95
M667427		1130	3.0	34.3	<0.002	0.05	0.15	3.2	<1	0.8	147.0	0.17	<0.05	2.9	0.079	0.23
M667428		850	7.4	123.5	0.003	0.17	0.45	9.8	1	2.0	162.5	0.60	<0.05	9.4	0.265	0.80
M667429		690	14.2	173.0	0.007	0.86	0.70	15.7	1	2.9	92.1	1.01	0.06	13.0	0.422	2.16
M667430		820	7.9	153.5	0.003	0.27	0.28	14.3	1	2.6	85.0	0.95	0.07	11.4	0.413	1.00
M667431		940	17.1	51.2	0.006	3.03	114.0	15.6	1	2.9	521	0.76	0.10	9.4	0.550	7.84
M667432		1350	17.7	170.0	<0.002	3.00	0.75	19.1	2	2.8	92.1	0.94	0.17	16.1	0.426	2.05
M667433		2100	30.9	116.0	<0.002	4.06	0.76	13.0	2	1.7	122.0	0.58	0.12	11.3	0.273	1.97
M667434		1800	29.3	151.5	<0.002	4.85	1.57	21.2	2	2.9	88.6	0.97	0.21	15.6	0.462	5.74
M667435		320	1.4	1.9	<0.002	0.04	<0.05	0.3	1	<0.2	42.7	<0.05	<0.05	<0.2	<0.005	0.02
M667436		430	9.8	57.5	<0.002	0.79	0.37	6.2	2	1.2	128.5	0.42	<0.05	7.0	0.159	1.26
M667437		380	13.8	83.3	<0.002	1.09	0.52	9.6	2	1.6	169.0	0.53	<0.05	8.8	0.219	1.08
M667438		470	32.1	145.0	<0.002	1.68	0.58	18.1	1	2.8	113.0	1.06	0.07	14.9	0.436	1.61
M667439		350	9.8	134.0	<0.002	0.47	0.28	13.8	1	2.1	126.0	0.79	0.05	12.8	0.319	0.90
M667440		410	8.2	172.5	0.002	1.40	0.52	17.8	1	3.1	143.5	1.02	0.10	13.8	0.444	1.51
M667441		430	8.5	181.5	<0.002	1.53	1.58	18.5	1	3.1	149.0	1.02	0.08	16.1	0.460	1.66
M667442		430	9.3	162.0	<0.002	1.38	0.34	17.5	1	2.6	154.0	0.99	0.06	16.1	0.417	1.46
M667443		460	9.0	160.0	<0.002	2.65	0.35	16.8	1	2.6	223	0.99	0.10	15.9	0.418	2.57
M667444		540	11.0	174.0	<0.002	0.38	0.36	18.9	2	2.7	179.0	0.95	0.08	17.3	0.449	1.32
M667445		510	12.9	176.0	<0.002	0.06	0.34	18.7	2	2.6	133.5	0.92	0.10	17.4	0.432	0.96
M667446		520	14.1	164.5	<0.002	1.40	0.38	18.8	2	2.7	206	0.93	0.09	16.5	0.429	1.83
M667447		490	13.4	174.5	<0.002	0.78	0.41	19.0	2	2.7	169.0	0.93	0.09	16.6	0.448	1.44
M667448		1010	14.8	53.0	0.003	3.37	116.0	18.1	2	2.3	575	0.75	0.16	10.2	0.566	8.74
M667449		500	11.9	168.0	<0.002	0.09	0.47	19.4	2	2.7	141.0	0.88	0.10	16.2	0.447	0.94
M667450		490	13.1	154.0	<0.002	0.05	0.37	18.3	1	2.6	161.5	0.89	0.08	15.0	0.436	0.83
M666601		460	23.0	165.0	<0.002	0.08	0.41	18.8	2	2.6	176.5	0.92	0.08	16.4	0.444	0.86





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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M667416		3.0	127	1.8	27.6	39	129.0
M667417		3.8	90	1.5	24.6	32	95.3
M667418		5.3	35	0.5	9.6	22	43.1
M667419		4.2	51	0.8	12.9	20	56.1
M667420		4.3	49	0.7	12.9	20	51.3
M667421		7.7	64	0.9	15.8	20	75.4
M667422		7.0	48	0.7	12.3	14	55.1
M667423		5.3	53	0.7	12.4	18	61.0
M667424		6.3	54	0.7	14.5	17	63.2
M667425		0.4	2	0.1	0.8	16	<0.5
M667426		7.5	79	1.7	18.3	20	93.9
M667427		4.6	25	0.5	7.8	20	31.4
M667428		5.4	79	1.1	19.0	20	88.5
M667429		3.6	117	2.9	24.1	23	125.0
M667430		2.2	114	1.7	24.8	24	122.0
M667431		7.4	170	22.3	15.5	44	168.5
M667432		2.9	120	1.9	28.3	22	114.0
M667433		5.1	79	1.7	24.6	131	77.4
M667434		3.6	118	4.7	28.0	157	116.5
M667435		0.8	2	0.1	0.9	15	0.6
M667436		4.3	51	2.4	12.2	9	60.0
M667437		4.4	62	1.9	17.0	16	71.9
M667438		2.1	87	4.2	19.7	41	120.0
M667439		4.2	77	2.9	19.3	29	90.9
M667440		3.3	101	3.9	20.8	42	134.5
M667441		3.4	105	3.9	22.4	44	138.0
M667442		2.7	89	2.4	20.2	59	111.5
M667443		2.9	96	3.1	20.4	71	112.5
M667444		2.7	102	2.2	22.3	76	115.0
M667445		3.0	99	1.8	22.6	67	115.0
M667446		2.9	90	3.4	22.2	74	113.0
M667447		2.8	105	2.6	22.4	74	117.0
M667448		8.3	178	34.3	16.5	42	175.0
M667449		2.7	107	1.8	22.2	83	114.0
M667450		2.3	97	1.7	21.7	77	112.5
M666601		2.5	106	1.8	22.3	82	110.5



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Page: Appendix 1  
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Finalized Date: 30- JUL- 2012  
Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150396**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12144260**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 060  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 22- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

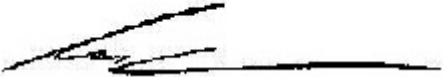
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144260**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306677		11.77	0.07	0.22	1.24	210	100	0.48	0.06	19.20	0.20	13.65	3.0	19	3.27	11.5
K306678		11.94	0.01	0.09	1.20	125	70	0.51	0.04	20.0	0.03	16.45	3.0	12	4.06	6.9
K306679		11.27	0.07	0.15	1.98	1340	110	0.78	0.05	18.15	0.05	22.0	3.7	20	6.15	12.2
K306680		12.20	0.10	0.07	0.82	690	50	0.38	0.03	20.7	0.05	11.75	2.3	9	2.19	4.5
K306681		11.22	0.15	0.09	1.34	6110	90	0.48	0.04	17.30	0.04	17.30	2.8	15	4.00	7.9
K306682		11.74	0.29	0.09	0.85	825	60	0.29	0.03	20.4	3.44	11.70	2.8	9	2.28	6.2
K306683		6.92	<0.01	0.01	0.09	17	20	0.07	0.03	21.4	0.06	1.24	1.8	3	0.38	1.1
K306684		5.68	0.09	0.07	0.80	111	80	0.28	0.02	19.75	0.04	12.85	2.4	9	2.02	4.3
K306685		5.74	0.03	0.09	0.79	99	60	0.29	0.02	20.3	0.02	11.65	2.5	8	2.19	5.1
K306686		0.19	4.33	0.75	3.00	490	780	0.61	0.43	10.60	0.59	42.6	5.5	46	2.66	32.2
K306687		12.96	0.39	0.07	0.83	210	70	0.31	0.03	19.85	0.04	12.90	2.7	10	2.62	5.5
K306688		11.64	0.45	0.08	1.56	1820	90	0.54	0.04	17.15	0.02	16.75	3.1	16	4.83	6.4
K306689		11.59	0.36	0.06	2.13	2350	120	0.79	0.05	16.15	0.03	22.6	3.4	20	8.83	6.9
K306690		5.80	0.32	0.07	2.08	3000	160	0.70	0.05	16.05	0.04	21.5	3.1	22	8.64	6.4
K306691		11.78	0.36	0.08	3.52	1280	220	0.99	0.08	13.45	0.04	36.8	5.6	34	13.45	14.9
K306692		11.50	0.25	0.09	4.07	213	180	1.36	0.10	12.75	0.03	40.0	6.0	37	24.6	14.1
K306693		11.31	0.04	0.07	3.96	87	150	1.49	0.08	14.10	0.04	43.6	6.9	30	38.8	13.7
K306694		11.83	0.05	0.07	2.39	124	140	0.92	0.05	16.35	0.07	27.8	4.8	21	18.95	9.3
K306695		11.97	<0.01	0.06	1.88	72	110	0.70	0.05	17.60	0.02	20.2	3.7	18	9.40	8.2
K306696		11.73	0.04	0.07	0.75	135	120	0.31	0.03	20.1	0.04	13.40	3.9	9	3.49	5.2
K306697		5.60	0.01	0.05	0.84	51	90	0.38	0.03	20.7	0.02	15.05	2.5	9	3.42	4.1
K306698		9.34	0.07	0.04	0.84	564	40	0.41	0.03	19.60	0.02	13.60	2.7	9	3.47	5.4
K306699		8.52	0.29	0.08	3.77	652	160	1.21	0.08	12.85	0.02	41.9	5.8	35	14.85	16.6
K306700		11.77	0.23	0.08	3.05	2800	80	1.02	0.07	14.60	0.02	33.7	5.1	31	12.35	14.1
K306951		11.94	0.20	0.09	2.87	6030	80	0.79	0.07	13.95	0.09	34.5	4.7	30	10.25	14.0
K306952		12.07	0.14	0.08	2.53	>10000	90	0.55	0.08	10.30	0.09	38.1	5.3	30	6.32	16.6
K306953		10.95	0.58	0.06	3.69	2460	160	0.83	0.08	12.85	0.08	34.5	6.0	38	9.42	18.8
K306954		11.81	0.52	0.08	1.67	9280	110	0.45	0.04	17.25	0.57	18.05	4.1	19	3.49	10.0
K306955		11.06	0.96	0.08	3.80	1960	130	1.02	0.10	11.60	0.12	36.9	8.5	36	10.90	19.7
K306956		10.96	0.60	0.07	4.65	2660	150	1.13	0.10	6.87	0.14	53.4	6.2	47	13.60	15.0
K306957		<0.02	0.60	0.07	4.84	2720	160	1.24	0.11	7.16	0.14	54.6	6.2	43	13.90	15.4
K306958		11.22	0.92	0.06	4.35	>10000	170	1.02	0.09	6.94	0.18	46.3	7.4	47	12.15	27.3
K306959		10.36	1.49	0.06	4.44	2500	160	1.09	0.10	9.51	0.08	44.0	7.5	44	11.55	25.0
K306960		10.57	0.93	0.15	3.76	1640	130	0.90	0.10	13.15	0.04	36.8	8.5	36	10.00	20.2
K306961		6.91	<0.01	0.02	0.07	30	20	0.10	0.02	22.9	0.06	1.37	2.0	2	0.27	1.8
K306962		0.20	2.52	0.98	3.23	602	880	0.79	0.30	8.32	2.23	45.1	7.1	55	3.83	43.0



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144260**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K306677		0.65	3.47	0.06	0.7	1.02	0.021	0.61	7.9	7.8	11.00	721	0.88	0.02	2.2	9.9
K306678		0.75	3.19	0.09	0.8	0.43	0.009	0.60	9.4	7.9	11.80	240	0.86	0.02	2.1	5.9
K306679		0.82	5.39	0.11	1.2	1.47	0.017	1.01	12.0	11.9	9.91	577	1.17	0.02	3.4	8.4
K306680		0.47	2.30	0.16	0.5	1.34	0.007	0.41	6.9	5.1	11.80	443	0.65	0.01	1.5	4.5
K306681		0.77	3.54	0.11	1.0	3.59	0.015	0.67	9.8	7.7	10.20	383	0.69	0.02	2.5	5.7
K306682		1.07	2.48	0.07	0.4	7.8	0.041	0.41	6.5	3.7	11.85	670	0.39	0.01	1.3	6.3
K306683		0.48	0.47	0.35	<0.1	0.02	<0.005	0.05	0.6	1.5	12.90	208	0.10	<0.01	0.3	4.2
K306684		0.99	2.11	0.09	0.4	1.00	0.008	0.41	6.6	3.1	10.80	602	0.40	0.01	1.3	4.8
K306685		0.98	1.96	0.07	0.4	1.00	0.008	0.40	6.6	3.4	11.80	614	0.47	0.01	1.4	5.3
K306686		1.88	7.06	0.08	1.5	4.32	0.027	0.91	25.3	59.1	5.19	353	10.45	0.02	6.2	32.0
K306687		1.13	2.12	0.06	0.5	5.97	0.009	0.41	7.6	4.1	11.45	771	0.72	0.02	1.6	5.6
K306688		1.09	3.90	0.06	1.2	2.85	0.013	0.77	9.4	7.3	9.65	799	1.39	0.02	2.8	6.7
K306689		1.03	5.57	0.08	1.7	3.42	0.016	1.11	12.3	10.3	9.30	482	0.79	0.02	3.7	6.7
K306690		1.04	5.27	0.07	1.6	3.46	0.016	1.07	11.8	9.9	9.28	472	0.71	0.02	3.5	6.1
K306691		1.33	9.00	0.08	2.1	5.62	0.025	1.79	19.2	14.8	7.74	467	0.63	0.02	5.8	11.5
K306692		1.48	10.25	0.09	2.0	2.75	0.025	2.07	21.6	20.4	7.40	384	0.81	0.02	6.2	12.7
K306693		1.19	10.15	0.10	1.3	0.99	0.026	2.09	23.6	24.3	8.25	230	0.67	0.02	5.2	15.4
K306694		1.30	6.05	0.07	1.1	1.23	0.016	1.26	15.3	13.2	9.26	468	0.51	0.02	3.5	9.4
K306695		1.22	4.75	0.07	1.0	0.49	0.015	0.99	11.3	8.7	9.95	540	0.46	0.02	3.1	7.1
K306696		1.52	1.83	<0.05	0.3	0.85	0.010	0.38	7.8	3.6	11.45	568	0.44	0.01	1.4	7.5
K306697		0.46	2.18	0.16	0.3	0.80	0.007	0.43	9.3	4.4	12.25	342	0.34	0.01	1.5	5.4
K306698		0.44	2.39	0.18	0.4	0.71	0.008	0.42	8.2	4.8	11.60	501	0.36	0.01	1.6	5.5
K306699		1.21	10.25	0.11	2.1	1.77	0.023	1.90	22.6	21.9	7.54	368	1.03	0.02	6.3	13.7
K306700		1.33	7.89	0.08	1.5	2.55	0.023	1.55	18.4	17.2	8.00	470	0.84	0.02	4.9	11.6
K306951		1.70	7.28	0.08	1.3	41.2	0.028	1.45	18.7	15.5	7.53	1210	0.89	0.02	4.5	11.0
K306952		3.65	6.45	0.07	1.4	82.2	0.041	1.25	19.7	12.5	3.45	1340	0.58	0.01	4.2	13.0
K306953		1.28	9.71	0.05	1.9	14.8	0.025	1.85	19.2	15.3	4.04	1620	0.78	0.02	6.0	14.3
K306954		1.15	4.09	0.05	0.8	11.4	0.021	0.80	9.9	7.9	7.48	1300	0.87	0.02	2.7	9.0
K306955		2.24	9.80	0.06	1.7	17.2	0.027	1.87	21.0	17.1	5.45	1400	0.55	0.02	6.2	16.0
K306956		1.25	12.55	0.11	2.7	12.0	0.030	2.30	28.4	22.9	3.34	588	0.44	0.02	7.9	11.8
K306957		1.29	12.90	0.12	2.8	12.1	0.030	2.38	28.9	22.7	3.47	614	0.46	0.02	8.3	12.3
K306958		1.52	11.15	0.10	2.6	63.3	0.042	2.13	24.5	19.8	3.72	637	0.50	0.02	7.2	12.7
K306959		1.49	11.65	0.09	2.5	7.8	0.029	2.19	23.9	18.9	5.22	708	0.57	0.02	7.6	14.6
K306960		1.50	9.39	0.08	1.8	3.23	0.025	1.85	20.6	13.2	7.13	628	0.42	0.02	6.3	15.7
K306961		0.52	0.48	0.36	<0.1	0.03	0.005	0.05	0.7	1.2	13.65	227	0.20	<0.01	0.4	4.4
K306962		2.13	8.60	0.11	1.7	4.08	0.027	1.04	28.2	41.8	2.62	269	19.35	0.04	7.3	53.9

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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144260**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	
K306677		260	11.5	24.2	0.002	0.39	0.80	2.1	2	0.5	101.0	0.15	<0.05	2.6	0.056	2.66
K306678		220	8.1	22.9	<0.002	0.51	0.24	2.0	1	0.4	110.5	0.15	<0.05	2.6	0.055	1.62
K306679		370	8.4	33.5	0.002	0.60	0.84	3.4	2	0.6	116.0	0.24	<0.05	4.2	0.090	5.33
K306680		150	6.0	15.8	<0.002	0.34	0.62	1.5	1	0.3	97.1	0.10	<0.05	1.7	0.037	4.08
K306681		350	6.3	26.0	<0.002	0.83	10.55	2.3	2	0.5	94.8	0.17	<0.05	2.8	0.061	7.74
K306682		140	9.0	15.3	<0.002	0.62	1.49	1.5	1	0.4	137.0	0.08	<0.05	1.4	0.032	11.30
K306683		180	1.2	2.8	<0.002	0.01	0.05	0.5	1	<0.2	41.9	<0.05	<0.05	<0.2	<0.005	0.05
K306684		130	6.9	15.4	<0.002	0.43	0.53	1.6	1	0.3	154.0	0.08	<0.05	1.4	0.036	2.78
K306685		150	7.7	13.6	<0.002	0.56	1.11	1.4	1	0.3	134.0	0.09	<0.05	1.4	0.033	2.53
K306686		550	9.6	49.5	0.009	1.58	96.0	5.0	3	2.8	61.4	0.40	0.19	6.2	0.157	2.49
K306687		140	11.6	15.1	0.002	0.53	2.02	1.6	1	0.3	109.0	0.11	<0.05	1.7	0.038	9.54
K306688		320	8.1	29.2	0.003	0.61	0.98	2.6	2	0.5	96.1	0.20	<0.05	3.2	0.072	6.70
K306689		320	7.7	37.5	<0.002	0.70	0.58	3.5	2	0.7	114.0	0.27	<0.05	4.5	0.099	8.34
K306690		310	7.2	36.6	<0.002	0.73	0.56	3.4	2	0.7	111.5	0.25	<0.05	4.2	0.094	8.15
K306691		480	10.8	59.7	<0.002	0.93	0.69	5.7	2	1.1	120.5	0.41	<0.05	6.9	0.157	12.75
K306692		490	10.3	69.8	<0.002	0.89	0.41	6.4	2	1.2	119.5	0.45	<0.05	7.6	0.170	5.69
K306693		430	9.9	73.2	<0.002	0.81	0.26	6.4	1	1.0	117.0	0.37	<0.05	6.7	0.142	2.28
K306694		320	8.9	41.7	<0.002	0.76	0.29	3.8	2	0.7	102.5	0.25	<0.05	4.4	0.093	2.92
K306695		240	8.0	30.9	<0.002	0.51	0.32	3.2	1	0.6	106.5	0.22	<0.05	3.6	0.082	1.59
K306696		150	12.5	13.2	<0.002	1.27	0.48	1.5	1	0.3	107.0	0.09	<0.05	1.4	0.032	2.71
K306697		140	5.9	15.0	<0.002	0.36	0.31	1.6	1	0.3	98.6	0.09	<0.05	1.6	0.035	1.47
K306698		140	5.0	16.0	<0.002	0.42	0.33	1.6	1	0.3	87.4	0.10	<0.05	1.6	0.037	1.72
K306699		580	12.2	67.9	<0.002	0.94	0.54	6.3	2	1.2	91.9	0.46	<0.05	7.9	0.169	4.13
K306700		440	8.3	53.5	<0.002	0.98	0.49	4.9	2	1.0	86.8	0.35	<0.05	5.9	0.131	4.85
K306951		400	9.9	50.4	<0.002	1.51	1.57	5.3	2	1.0	96.7	0.33	<0.05	5.5	0.123	71.1
K306952		360	18.5	45.3	<0.002	5.44	1.91	4.3	2	1.2	113.5	0.31	<0.05	5.1	0.113	121.5
K306953		440	11.9	71.3	<0.002	1.07	2.15	5.8	3	1.2	181.5	0.46	<0.05	7.3	0.166	30.1
K306954		230	11.3	31.1	<0.002	1.22	2.73	3.2	2	0.7	167.0	0.19	<0.05	3.5	0.072	29.1
K306955		390	15.3	70.0	<0.002	2.22	2.28	6.9	2	1.5	115.5	0.46	<0.05	7.2	0.167	42.9
K306956		610	6.8	88.2	<0.002	0.76	2.59	7.7	3	1.6	114.0	0.60	<0.05	9.6	0.219	24.5
K306957		640	6.9	91.1	<0.002	0.78	2.60	7.9	3	1.6	119.5	0.62	<0.05	9.9	0.226	25.4
K306958		610	8.2	75.7	<0.002	1.66	4.34	7.0	3	1.5	117.0	0.53	<0.05	8.8	0.199	21.3
K306959		540	8.1	78.4	<0.002	0.82	3.09	7.3	3	1.4	130.5	0.55	<0.05	9.1	0.205	20.8
K306960		400	8.1	61.7	<0.002	0.72	1.87	6.3	3	1.2	119.5	0.47	<0.05	7.2	0.170	7.69
K306961		200	1.3	1.9	<0.002	0.02	<0.05	0.5	1	<0.2	45.2	<0.05	<0.05	<0.2	0.005	0.05
K306962		900	37.2	52.5	0.022	1.58	110.0	5.5	4	2.5	75.5	0.45	0.20	6.5	0.174	4.00



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144260**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
K306677		14.3	27	1.4	5.4	17	24.5	
K306678		13.3	22	0.8	5.7	3	28.9	
K306679		12.5	37	1.4	8.2	7	42.9	
K306680		14.0	16	1.0	4.5	5	18.8	
K306681		10.2	26	1.1	6.9	3	35.0	
K306682		8.3	16	1.1	4.6	751	13.8	
K306683		0.8	3	0.1	0.8	12	<0.5	
K306684		6.6	13	0.6	5.5	8	13.6	
K306685		10.9	15	0.9	4.0	3	13.5	
K306686		5.4	95	66.9	16.0	72	51.7	
K306687		13.0	17	1.2	4.5	7	17.8	
K306688		10.5	27	1.8	7.2	<2	42.2	
K306689		7.1	32	2.5	8.9	4	57.3	
K306690		7.0	31	2.3	8.7	4	53.8	
K306691		9.8	55	3.9	12.7	7	72.8	
K306692		8.6	61	3.5	11.8	8	69.3	
K306693		11.1	53	1.4	10.6	10	44.2	
K306694		10.0	36	1.1	8.1	12	38.8	
K306695		9.7	25	1.2	6.4	2	33.9	
K306696		13.2	14	0.9	4.0	<2	10.5	
K306697		13.2	14	1.0	4.1	<2	11.1	
K306698		12.1	14	0.9	4.3	<2	12.8	
K306699		13.6	53	3.3	13.4	4	69.5	
K306700		8.3	49	2.8	10.3	4	50.2	
K306951		12.6	49	3.5	8.9	26	43.0	
K306952		8.9	42	3.9	7.5	16	45.7	3.16
K306953		13.8	57	3.9	12.8	27	65.0	
K306954		18.1	26	2.7	5.6	111	27.3	
K306955		9.7	48	4.5	9.8	25	56.4	
K306956		5.5	64	5.0	14.7	25	89.7	
K306957		5.7	66	5.2	15.2	25	92.9	
K306958		5.3	64	4.0	13.9	18	85.1	1.565
K306959		6.4	61	4.2	13.9	12	85.4	
K306960		8.3	49	3.3	10.6	6	59.0	
K306961		0.4	3	0.1	0.9	13	0.5	
K306962		8.6	235	27.2	21.3	212	62.7	



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144260**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12144262**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 063  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 22- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306963		9.54	1.14	0.08	2.14	204	90	0.53	0.06	15.00	0.03	23.0	5.7	22	4.53	15.1
K306964		10.22	0.03	0.08	4.23	125	150	1.09	0.10	11.80	0.06	38.7	9.5	41	12.85	23.5
K307359		4.98	<0.01	0.02	0.08	<5	20	0.07	0.04	21.3	0.06	1.03	0.7	<1	0.19	3.1
K306966		10.31	<0.01	0.07	2.96	81	160	0.91	0.08	15.00	0.02	28.4	7.0	27	6.07	24.3
K306967		6.98	<0.01	0.09	2.76	76	180	0.85	0.12	18.60	0.06	29.3	5.7	26	6.47	21.4
K306968		0.20	1.51	1.04	3.27	650	740	0.73	0.29	8.38	2.11	44.1	6.4	51	3.43	45.1
K306969		5.81	0.04	0.07	2.05	68	70	0.66	0.07	17.55	0.03	23.0	4.8	18	3.76	21.9
K306970		7.39	0.07	0.07	2.77	270	170	0.86	0.10	14.35	0.03	27.2	7.2	25	4.70	17.3
K306971		3.43	<0.01	0.02	0.45	6	370	0.17	0.04	33.2	0.07	7.72	1.6	2	1.65	6.6
K306972		7.24	<0.01	0.02	0.60	25	200	0.20	0.04	34.3	0.09	10.95	2.2	4	1.86	8.2
K306973		7.10	<0.01	0.02	0.62	18	260	0.15	0.05	33.0	0.10	10.80	2.1	4	1.41	8.0
K306974		7.16	<0.01	0.03	0.57	14	110	0.18	0.04	32.3	0.06	9.40	2.1	4	1.61	8.4
K306975		<0.02	<0.01	0.02	0.57	16	110	0.19	0.03	31.6	0.08	9.47	2.1	4	1.61	9.4
K306976		7.13	<0.01	0.03	0.54	14	100	0.20	0.04	32.7	0.06	8.85	1.9	4	1.60	8.8
K306977		6.98	<0.01	0.02	0.30	6	110	0.10	0.02	33.4	0.07	5.44	1.0	2	0.97	5.4
K306978		6.72	0.01	0.02	0.45	8	110	0.13	0.04	32.3	0.09	8.43	1.7	3	1.05	7.6
K306979		7.06	<0.01	0.02	0.44	15	110	0.17	0.03	33.8	0.08	7.79	1.6	3	0.92	7.5
K306980		7.44	<0.01	0.02	0.46	16	130	0.13	0.02	31.2	0.09	8.41	1.6	5	1.19	8.1
K306981		7.22	<0.01	0.01	0.37	33	140	0.10	0.02	31.7	0.08	7.07	1.5	4	0.83	4.7
K306982		3.13	<0.01	0.01	0.66	41	120	0.18	0.03	29.9	0.11	12.05	2.0	7	1.73	6.8
K306983		2.63	<0.01	0.02	0.95	49	330	0.25	0.04	29.3	0.12	15.25	3.1	10	2.62	10.0
K306984		1.41	<0.01	<0.01	0.16	18	100	0.09	0.01	32.5	0.06	3.84	0.8	3	0.32	1.9
K306985		0.21	4.46	0.82	2.75	463	700	0.66	0.47	8.77	0.56	40.4	5.1	42	2.37	34.5
K306986		7.14	<0.01	0.01	0.61	27	170	0.17	0.03	32.7	0.11	11.30	2.0	6	1.49	6.4
K306987		7.09	<0.01	0.03	1.32	37	150	0.31	0.06	30.5	0.14	18.05	3.9	13	3.42	14.6
K306988		3.00	<0.01	0.01	0.31	9	730	0.15	0.01	29.6	0.03	10.15	1.3	4	0.87	3.4
K306989		4.71	<0.01	0.05	1.46	41	1090	0.41	0.06	27.3	0.07	29.3	4.7	13	4.60	13.7
K306990		1.80	<0.01	0.03	1.36	41	260	0.34	0.05	27.7	0.08	26.5	4.2	12	3.94	12.4
K306991		6.92	<0.01	0.01	0.06	<5	20	0.05	0.02	20.2	0.07	1.42	1.4	1	0.19	1.8
K306992		7.79	<0.01	0.03	1.13	24	120	0.33	0.05	27.8	0.09	18.75	3.7	11	2.84	10.4
K306993		7.77	<0.01	0.06	1.44	33	150	0.37	0.05	29.9	0.11	23.7	4.6	14	3.50	13.9
K306994		8.15	<0.01	0.07	1.97	34	170	0.52	0.07	28.0	0.11	28.2	6.7	22	5.00	20.7
K306995		7.93	<0.01	0.04	1.95	28	150	0.54	0.07	26.5	0.15	25.3	6.1	21	4.99	19.1
K306996		8.47	<0.01	0.05	2.76	40	160	0.62	0.10	22.3	0.18	32.6	8.9	30	7.49	27.4
K306997		7.97	<0.01	0.05	2.31	42	190	0.58	0.08	24.8	0.16	30.3	7.3	23	6.55	23.0
K306998		7.71	<0.01	0.05	2.42	99	160	0.54	0.09	24.9	0.14	33.1	7.3	23	6.97	22.3



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K306963		1.40	5.66	0.05	1.0	2.44	0.016	1.09	12.6	6.6	7.66	758	0.76	0.02	3.6	11.6
K306964		1.48	11.00	0.06	2.0	0.70	0.026	2.10	21.4	16.0	5.08	484	0.51	0.02	6.8	16.0
K307359		0.45	0.21	0.05	<0.1	<0.01	0.005	0.03	0.5	1.0	12.75	218	0.09	0.01	0.1	1.7
K306966		2.40	7.28	0.07	1.7	0.33	0.020	1.43	14.2	7.7	6.86	947	0.34	0.02	4.6	16.1
K306967		1.85	7.17	0.08	1.3	0.43	0.025	1.39	16.1	7.9	3.95	800	0.25	0.02	4.3	13.2
K306968		2.16	7.71	0.10	1.8	4.52	0.029	1.05	27.0	33.4	2.66	293	17.85	0.03	6.5	53.4
K306969		1.91	5.25	0.07	0.9	0.63	0.016	0.99	12.0	5.5	8.07	1220	0.32	0.02	3.2	11.6
K306970		2.09	7.24	0.09	1.3	0.70	0.025	1.36	14.8	7.9	7.25	1120	0.25	0.02	4.3	12.5
K306971		0.35	1.17	0.07	0.2	0.06	0.009	0.20	3.9	2.3	0.57	86	0.21	0.01	0.6	2.3
K306972		0.43	1.58	0.05	0.3	0.08	0.010	0.27	5.3	2.7	0.54	208	0.32	0.01	0.8	3.4
K306973		0.39	1.59	0.06	0.3	0.08	0.007	0.25	5.1	2.5	0.55	108	0.30	0.03	0.8	3.4
K306974		0.42	1.44	0.06	0.3	0.08	0.009	0.26	4.8	2.5	1.01	254	0.26	0.01	0.8	3.3
K306975		0.41	1.46	0.05	0.3	0.08	0.008	0.26	4.5	2.4	0.97	243	0.24	0.01	0.8	3.4
K306976		0.40	1.41	0.06	0.3	0.08	0.005	0.25	4.4	2.5	0.98	268	0.20	0.01	0.7	2.9
K306977		0.23	0.77	0.05	0.2	0.05	0.005	0.13	2.4	1.7	0.64	118	0.13	0.01	0.4	1.4
K306978		0.31	1.08	0.07	0.2	0.06	0.006	0.20	4.0	2.0	0.45	116	0.29	0.01	0.6	2.5
K306979		0.31	1.16	0.06	0.2	0.07	0.007	0.19	3.8	2.0	0.58	160	0.19	0.01	0.6	2.5
K306980		0.30	1.16	0.06	0.2	0.06	0.005	0.21	4.2	2.1	0.42	63	0.35	0.01	1.0	1.6
K306981		0.28	0.96	0.07	0.2	0.08	0.005	0.17	3.5	1.8	0.55	119	0.25	0.01	1.0	0.7
K306982		0.42	1.62	0.07	0.3	0.27	0.008	0.31	6.2	3.3	0.60	141	0.30	0.01	1.4	1.9
K306983		0.58	2.40	0.09	0.5	0.13	0.012	0.44	8.0	4.5	0.59	131	0.47	0.01	1.8	2.9
K306984		0.17	0.42	0.10	0.1	0.02	<0.005	0.06	1.8	0.9	0.46	144	0.12	0.01	0.6	<0.2
K306985		1.70	6.58	0.12	1.5	5.19	0.029	0.82	25.2	61.8	4.72	320	9.83	0.02	5.9	31.9
K306986		0.42	1.51	0.09	0.3	0.09	0.007	0.26	6.0	2.7	0.57	109	0.32	0.01	1.3	1.5
K306987		0.83	2.99	0.08	0.7	0.19	0.014	0.58	9.8	5.2	0.70	132	0.51	0.01	2.2	5.1
K306988		0.64	0.81	0.05	0.2	0.03	<0.005	0.13	4.8	1.7	1.11	265	0.17	0.01	0.9	0.5
K306989		1.17	3.30	0.09	0.8	0.12	0.019	0.67	15.5	5.5	1.23	363	0.40	0.02	2.3	8.3
K306990		1.11	3.35	0.09	0.7	0.11	0.015	0.61	14.1	5.4	1.16	323	0.42	0.01	2.2	5.4
K306991		0.45	0.32	0.27	<0.1	<0.01	0.005	0.03	0.7	1.0	12.25	205	0.09	<0.01	0.4	1.4
K306992		1.16	2.65	0.09	0.6	0.07	0.011	0.51	10.5	4.2	1.52	351	0.31	0.01	1.8	4.3
K306993		1.26	3.39	0.09	0.7	0.12	0.017	0.62	13.1	4.5	1.12	322	0.49	0.01	2.4	7.3
K306994		1.39	4.72	0.08	1.0	0.14	0.021	0.88	15.5	6.6	0.79	342	0.51	0.02	3.2	11.2
K306995		1.40	4.63	0.09	1.0	0.13	0.022	0.89	13.7	6.3	0.81	427	0.51	0.02	3.1	9.8
K306996		1.82	6.62	0.11	1.4	0.26	0.031	1.23	17.9	8.8	1.02	425	0.69	0.02	4.3	15.2
K306997		1.52	5.71	0.09	1.2	0.25	0.031	1.04	16.7	6.6	0.99	434	0.84	0.03	4.4	12.4
K306998		1.61	5.60	0.11	1.3	0.87	0.026	1.09	18.2	7.1	0.84	363	0.80	0.01	4.0	12.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306963		240	7.3	39.4	0.002	0.63	0.97	3.8	3	0.7	125.0	0.26	<0.05	4.8	0.100	5.36
K306964		570	8.7	69.3	0.002	0.74	0.46	7.2	3	1.4	113.5	0.51	<0.05	9.3	0.191	2.39
K307359		170	1.4	1.4	<0.002	0.01	0.08	0.3	<1	0.3	43.2	<0.05	<0.05	<0.2	<0.005	<0.02
K306966		370	10.1	41.7	0.004	1.31	0.39	4.6	1	1.2	123.0	0.35	<0.05	5.6	0.133	1.20
K306967		320	10.5	43.3	0.004	1.26	0.29	4.3	2	1.1	181.5	0.32	<0.05	5.0	0.121	1.22
K306968		960	38.2	44.3	0.024	1.62	107.0	4.8	4	2.5	74.8	0.43	0.17	6.1	0.177	3.82
K306969		220	9.0	29.5	<0.002	0.78	0.29	3.1	<1	1.0	128.0	0.24	<0.05	3.7	0.089	1.43
K306970		300	9.5	41.5	<0.002	0.97	0.47	4.5	1	1.3	136.0	0.32	<0.05	5.2	0.122	2.23
K306971		120	1.8	7.9	0.002	0.32	0.25	1.3	<1	0.6	1745	<0.05	0.06	0.7	0.023	0.10
K306972		300	3.1	10.0	0.004	0.42	0.35	1.5	1	0.6	1775	0.06	<0.05	1.0	0.031	0.11
K306973		600	6.6	9.4	0.002	0.40	0.28	1.6	<1	0.6	2540	0.05	<0.05	1.0	0.032	0.07
K306974		140	4.0	9.5	0.003	0.43	0.31	1.4	<1	0.5	1810	0.06	<0.05	1.0	0.031	0.10
K306975		140	4.0	9.4	0.004	0.41	0.32	1.4	<1	0.5	1775	0.05	<0.05	1.1	0.030	0.10
K306976		190	2.7	9.4	0.002	0.38	0.38	1.5	<1	0.6	1780	0.06	<0.05	0.9	0.028	0.09
K306977		770	1.3	5.2	<0.002	0.20	0.22	0.8	<1	0.5	2050	<0.05	0.05	0.5	0.015	0.06
K306978		140	1.9	7.9	0.003	0.30	0.24	1.5	<1	0.5	2220	<0.05	<0.05	0.8	0.023	0.07
K306979		350	2.0	8.0	<0.002	0.31	0.25	1.2	<1	0.6	1975	<0.05	<0.05	0.7	0.022	0.08
K306980		300	3.4	10.2	0.002	0.32	0.19	1.2	2	0.2	2150	0.05	<0.05	0.8	0.023	0.11
K306981		480	2.1	8.1	0.002	0.26	0.18	1.0	2	0.2	2030	<0.05	0.05	0.7	0.019	0.10
K306982		130	2.3	14.6	<0.002	0.41	0.33	1.9	2	0.3	1790	0.07	<0.05	1.1	0.033	0.36
K306983		180	4.4	21.4	0.002	0.59	0.34	2.3	2	0.4	1815	0.10	<0.05	1.6	0.049	0.32
K306984		690	1.0	2.9	<0.002	0.12	0.10	0.6	1	<0.2	1815	<0.05	<0.05	0.3	0.008	0.04
K306985		500	8.9	47.0	0.008	1.37	87.9	5.1	3	2.6	57.7	0.36	0.22	6.1	0.146	2.36
K306986		240	2.6	12.5	0.002	0.41	0.31	1.7	2	0.2	1935	0.06	0.05	1.0	0.030	0.20
K306987		560	4.7	27.0	0.002	0.86	0.51	3.0	2	0.5	1880	0.14	0.05	1.9	0.070	0.35
K306988		490	2.1	6.2	<0.002	0.25	0.17	1.2	2	<0.2	1640	<0.05	<0.05	0.5	0.016	0.06
K306989		190	7.3	28.7	0.002	0.83	0.50	3.4	2	0.6	1755	0.15	0.05	2.1	0.079	0.31
K306990		200	6.4	28.8	0.002	0.74	0.45	3.5	2	0.5	1870	0.14	0.06	2.1	0.069	0.28
K306991		170	1.2	1.4	<0.002	0.02	<0.05	0.3	1	<0.2	48.2	<0.05	<0.05	<0.2	<0.005	<0.02
K306992		190	6.1	22.0	0.002	0.63	0.38	3.0	2	0.4	1760	0.12	<0.05	1.8	0.061	0.24
K306993		380	6.3	29.6	0.002	0.77	0.50	3.8	2	0.5	2110	0.14	0.06	2.0	0.075	0.29
K306994		340	8.4	42.0	0.003	1.02	0.67	5.8	2	0.7	1850	0.20	0.05	2.7	0.122	0.43
K306995		610	6.8	40.2	0.003	1.05	0.55	5.4	2	0.7	1580	0.21	<0.05	2.7	0.125	0.75
K306996		230	9.0	56.4	0.003	1.43	0.74	7.2	2	1.0	1155	0.29	0.06	3.6	0.183	1.41
K306997		300	7.4	52.9	0.003	1.19	0.82	6.1	2	0.9	1430	0.24	0.05	3.0	0.145	1.30
K306998		350	9.3	50.0	0.003	1.39	1.00	5.9	2	0.8	1455	0.25	0.05	3.5	0.145	2.29



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K306963		11.0	31	1.9	7.0	8	39.3
K306964		9.7	59	2.3	11.5	15	71.5
K307359		0.4	3	0.1	0.7	15	<0.5
K306966		4.9	41	1.6	9.4	6	57.8
K306967		7.0	37	1.5	9.4	33	41.7
K306968		8.7	247	28.9	18.5	228	63.5
K306969		8.5	30	1.3	7.4	7	30.8
K306970		5.0	40	2.0	9.5	7	45.7
K306971		1.4	9	0.1	7.5	5	7.3
K306972		2.0	11	0.1	8.8	9	9.2
K306973		2.7	11	0.2	10.1	15	9.3
K306974		1.9	11	0.2	7.9	4	8.6
K306975		1.8	11	0.2	7.9	4	8.7
K306976		1.5	11	0.2	7.8	3	8.3
K306977		1.7	7	0.1	6.2	5	6.1
K306978		1.8	8	0.1	7.7	5	7.4
K306979		1.6	9	0.1	7.1	5	7.0
K306980		1.8	8	0.2	8.8	7	8.0
K306981		1.8	6	0.1	8.2	5	7.3
K306982		2.0	11	0.3	11.4	9	10.0
K306983		2.5	14	0.2	11.8	10	15.7
K306984		1.5	3	0.1	5.7	4	4.6
K306985		5.8	87	63.3	15.2	68	49.0
K306986		2.0	10	0.2	11.1	9	10.0
K306987		1.9	21	0.3	12.1	17	20.4
K306988		1.1	6	0.1	12.1	2	7.3
K306989		2.2	21	0.4	17.9	9	20.9
K306990		2.4	20	0.3	19.4	9	20.2
K306991		0.6	2	0.1	1.0	17	<0.5
K306992		1.8	18	0.3	13.6	12	16.4
K306993		2.2	22	0.3	18.4	16	24.1
K306994		2.3	37	0.4	17.2	14	32.3
K306995		2.0	35	0.5	17.8	24	32.5
K306996		2.2	52	0.6	20.5	36	43.2
K306997		1.8	41	0.5	20.3	27	42.4
K306998		2.5	40	0.7	17.9	24	40.5



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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**CERTIFICATE WH12144262**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 063  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 22- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

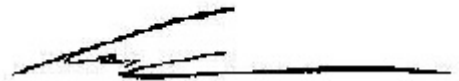
ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: ATAC RESOURCES LTD.  
 ATTN: JULIA LANE  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Comments: \*\*Corrected Copy for Au- AA26\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
K306963		9.54	1.15	0.08	2.14	204	90	0.53	0.06	15.00	0.03	23.0	5.7	22	4.53	15.1
K306964		10.22	0.03	0.08	4.23	125	150	1.09	0.10	11.80	0.06	38.7	9.5	41	12.85	23.5
K307359		4.98	<0.01	0.02	0.08	<5	20	0.07	0.04	21.3	0.06	1.03	0.7	<1	0.19	3.1
K306966		10.31	<0.01	0.07	2.96	81	160	0.91	0.08	15.00	0.02	28.4	7.0	27	6.07	24.3
K306967		6.98	0.01	0.09	2.76	76	180	0.85	0.12	18.60	0.06	29.3	5.7	26	6.47	21.4
K306968		0.20	2.59	1.04	3.27	650	740	0.73	0.29	8.38	2.11	44.1	6.4	51	3.43	45.1
K306969		5.81	0.04	0.07	2.05	68	70	0.66	0.07	17.55	0.03	23.0	4.8	18	3.76	21.9
K306970		7.39	0.07	0.07	2.77	270	170	0.86	0.10	14.35	0.03	27.2	7.2	25	4.70	17.3
K306971		3.43	<0.01	0.02	0.45	6	370	0.17	0.04	33.2	0.07	7.72	1.6	2	1.65	6.6
K306972		7.24	<0.01	0.02	0.60	25	200	0.20	0.04	34.3	0.09	10.95	2.2	4	1.86	8.2
K306973		7.10	<0.01	0.02	0.62	18	260	0.15	0.05	33.0	0.10	10.80	2.1	4	1.41	8.0
K306974		7.16	<0.01	0.03	0.57	14	110	0.18	0.04	32.3	0.06	9.40	2.1	4	1.61	8.4
K306975		<0.02	<0.01	0.02	0.57	16	110	0.19	0.03	31.6	0.08	9.47	2.1	4	1.61	9.4
K306976		7.13	<0.01	0.03	0.54	14	100	0.20	0.04	32.7	0.06	8.85	1.9	4	1.60	8.8
K306977		6.98	<0.01	0.02	0.30	6	110	0.10	0.02	33.4	0.07	5.44	1.0	2	0.97	5.4
K306978		6.72	<0.01	0.02	0.45	8	110	0.13	0.04	32.3	0.09	8.43	1.7	3	1.05	7.6
K306979		7.06	<0.01	0.02	0.44	15	110	0.17	0.03	33.8	0.08	7.79	1.6	3	0.92	7.5
K306980		7.44	<0.01	0.02	0.46	16	130	0.13	0.02	31.2	0.09	8.41	1.6	5	1.19	8.1
K306981		7.22	<0.01	0.01	0.37	33	140	0.10	0.02	31.7	0.08	7.07	1.5	4	0.83	4.7
K306982		3.13	0.01	0.01	0.66	41	120	0.18	0.03	29.9	0.11	12.05	2.0	7	1.73	6.8
K306983		2.63	<0.01	0.02	0.95	49	330	0.25	0.04	29.3	0.12	15.25	3.1	10	2.62	10.0
K306984		1.41	<0.01	<0.01	0.16	18	100	0.09	0.01	32.5	0.06	3.84	0.8	3	0.32	1.9
K306985		0.21	4.37	0.82	2.75	463	700	0.66	0.47	8.77	0.56	40.4	5.1	42	2.37	34.5
K306986		7.14	<0.01	0.01	0.61	27	170	0.17	0.03	32.7	0.11	11.30	2.0	6	1.49	6.4
K306987		7.09	<0.01	0.03	1.32	37	150	0.31	0.06	30.5	0.14	18.05	3.9	13	3.42	14.6
K306988		3.00	<0.01	0.01	0.31	9	730	0.15	0.01	29.6	0.03	10.15	1.3	4	0.87	3.4
K306989		4.71	<0.01	0.05	1.46	41	1090	0.41	0.06	27.3	0.07	29.3	4.7	13	4.60	13.7
K306990		1.80	<0.01	0.03	1.36	41	260	0.34	0.05	27.7	0.08	26.5	4.2	12	3.94	12.4
K306991		6.92	<0.01	0.01	0.06	<5	20	0.05	0.02	20.2	0.07	1.42	1.4	1	0.19	1.8
K306992		7.79	<0.01	0.03	1.13	24	120	0.33	0.05	27.8	0.09	18.75	3.7	11	2.84	10.4
K306993		7.77	<0.01	0.06	1.44	33	150	0.37	0.05	29.9	0.11	23.7	4.6	14	3.50	13.9
K306994		8.15	<0.01	0.07	1.97	34	170	0.52	0.07	28.0	0.11	28.2	6.7	22	5.00	20.7
K306995		7.93	<0.01	0.04	1.95	28	150	0.54	0.07	26.5	0.15	25.3	6.1	21	4.99	19.1
K306996		8.47	<0.01	0.05	2.76	40	160	0.62	0.10	22.3	0.18	32.6	8.9	30	7.49	27.4
K306997		7.97	<0.01	0.05	2.31	42	190	0.58	0.08	24.8	0.16	30.3	7.3	23	6.55	23.0
K306998		7.71	<0.01	0.05	2.42	99	160	0.54	0.09	24.9	0.14	33.1	7.3	23	6.97	22.3

Comments: \*\*Corrected Copy for Au- AA26\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Plus Appendix Pages  
 Finalized Date: 10- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
K306963		1.40	5.66	0.05	1.0	2.44	0.016	1.09	12.6	6.6	7.66	758	0.76	0.02	3.6	11.6
K306964		1.48	11.00	0.06	2.0	0.70	0.026	2.10	21.4	16.0	5.08	484	0.51	0.02	6.8	16.0
K307359		0.45	0.21	0.05	<0.1	<0.01	0.005	0.03	0.5	1.0	12.75	218	0.09	0.01	0.1	1.7
K306966		2.40	7.28	0.07	1.7	0.33	0.020	1.43	14.2	7.7	6.86	947	0.34	0.02	4.6	16.1
K306967		1.85	7.17	0.08	1.3	0.43	0.025	1.39	16.1	7.9	3.95	800	0.25	0.02	4.3	13.2
K306968		2.16	7.71	0.10	1.8	4.52	0.029	1.05	27.0	33.4	2.66	293	17.85	0.03	6.5	53.4
K306969		1.91	5.25	0.07	0.9	0.63	0.016	0.99	12.0	5.5	8.07	1220	0.32	0.02	3.2	11.6
K306970		2.09	7.24	0.09	1.3	0.70	0.025	1.36	14.8	7.9	7.25	1120	0.25	0.02	4.3	12.5
K306971		0.35	1.17	0.07	0.2	0.06	0.009	0.20	3.9	2.3	0.57	86	0.21	0.01	0.6	2.3
K306972		0.43	1.58	0.05	0.3	0.08	0.010	0.27	5.3	2.7	0.54	208	0.32	0.01	0.8	3.4
K306973		0.39	1.59	0.06	0.3	0.08	0.007	0.25	5.1	2.5	0.55	108	0.30	0.03	0.8	3.4
K306974		0.42	1.44	0.06	0.3	0.08	0.009	0.26	4.8	2.5	1.01	254	0.26	0.01	0.8	3.3
K306975		0.41	1.46	0.05	0.3	0.08	0.008	0.26	4.5	2.4	0.97	243	0.24	0.01	0.8	3.4
K306976		0.40	1.41	0.06	0.3	0.08	0.005	0.25	4.4	2.5	0.98	268	0.20	0.01	0.7	2.9
K306977		0.23	0.77	0.05	0.2	0.05	0.005	0.13	2.4	1.7	0.64	118	0.13	0.01	0.4	1.4
K306978		0.31	1.08	0.07	0.2	0.06	0.006	0.20	4.0	2.0	0.45	116	0.29	0.01	0.6	2.5
K306979		0.31	1.16	0.06	0.2	0.07	0.007	0.19	3.8	2.0	0.58	160	0.19	0.01	0.6	2.5
K306980		0.30	1.16	0.06	0.2	0.06	0.005	0.21	4.2	2.1	0.42	63	0.35	0.01	1.0	1.6
K306981		0.28	0.96	0.07	0.2	0.08	0.005	0.17	3.5	1.8	0.55	119	0.25	0.01	1.0	0.7
K306982		0.42	1.62	0.07	0.3	0.27	0.008	0.31	6.2	3.3	0.60	141	0.30	0.01	1.4	1.9
K306983		0.58	2.40	0.09	0.5	0.13	0.012	0.44	8.0	4.5	0.59	131	0.47	0.01	1.8	2.9
K306984		0.17	0.42	0.10	0.1	0.02	<0.005	0.06	1.8	0.9	0.46	144	0.12	0.01	0.6	<0.2
K306985		1.70	6.58	0.12	1.5	5.19	0.029	0.82	25.2	61.8	4.72	320	9.83	0.02	5.9	31.9
K306986		0.42	1.51	0.09	0.3	0.09	0.007	0.26	6.0	2.7	0.57	109	0.32	0.01	1.3	1.5
K306987		0.83	2.99	0.08	0.7	0.19	0.014	0.58	9.8	5.2	0.70	132	0.51	0.01	2.2	5.1
K306988		0.64	0.81	0.05	0.2	0.03	<0.005	0.13	4.8	1.7	1.11	265	0.17	0.01	0.9	0.5
K306989		1.17	3.30	0.09	0.8	0.12	0.019	0.67	15.5	5.5	1.23	363	0.40	0.02	2.3	8.3
K306990		1.11	3.35	0.09	0.7	0.11	0.015	0.61	14.1	5.4	1.16	323	0.42	0.01	2.2	5.4
K306991		0.45	0.32	0.27	<0.1	<0.01	0.005	0.03	0.7	1.0	12.25	205	0.09	<0.01	0.4	1.4
K306992		1.16	2.65	0.09	0.6	0.07	0.011	0.51	10.5	4.2	1.52	351	0.31	0.01	1.8	4.3
K306993		1.26	3.39	0.09	0.7	0.12	0.017	0.62	13.1	4.5	1.12	322	0.49	0.01	2.4	7.3
K306994		1.39	4.72	0.08	1.0	0.14	0.021	0.88	15.5	6.6	0.79	342	0.51	0.02	3.2	11.2
K306995		1.40	4.63	0.09	1.0	0.13	0.022	0.89	13.7	6.3	0.81	427	0.51	0.02	3.1	9.8
K306996		1.82	6.62	0.11	1.4	0.26	0.031	1.23	17.9	8.8	1.02	425	0.69	0.02	4.3	15.2
K306997		1.52	5.71	0.09	1.2	0.25	0.031	1.04	16.7	6.6	0.99	434	0.84	0.03	4.4	12.4
K306998		1.61	5.60	0.11	1.3	0.87	0.026	1.09	18.2	7.1	0.84	363	0.80	0.01	4.0	12.2

Comments: \*\*Corrected Copy for Au- AA26\*\*

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 Plus Appendix Pages  
 Finalized Date: 10- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306963		240	7.3	39.4	0.002	0.63	0.97	3.8	3	0.7	125.0	0.26	<0.05	4.8	0.100	5.36
K306964		570	8.7	69.3	0.002	0.74	0.46	7.2	3	1.4	113.5	0.51	<0.05	9.3	0.191	2.39
K307359		170	1.4	1.4	<0.002	0.01	0.08	0.3	<1	0.3	43.2	<0.05	<0.05	<0.2	<0.005	<0.02
K306966		370	10.1	41.7	0.004	1.31	0.39	4.6	1	1.2	123.0	0.35	<0.05	5.6	0.133	1.20
K306967		320	10.5	43.3	0.004	1.26	0.29	4.3	2	1.1	181.5	0.32	<0.05	5.0	0.121	1.22
K306968		960	38.2	44.3	0.024	1.62	107.0	4.8	4	2.5	74.8	0.43	0.17	6.1	0.177	3.82
K306969		220	9.0	29.5	<0.002	0.78	0.29	3.1	<1	1.0	128.0	0.24	<0.05	3.7	0.089	1.43
K306970		300	9.5	41.5	<0.002	0.97	0.47	4.5	1	1.3	136.0	0.32	<0.05	5.2	0.122	2.23
K306971		120	1.8	7.9	0.002	0.32	0.25	1.3	<1	0.6	1745	<0.05	0.06	0.7	0.023	0.10
K306972		300	3.1	10.0	0.004	0.42	0.35	1.5	1	0.6	1775	0.06	<0.05	1.0	0.031	0.11
K306973		600	6.6	9.4	0.002	0.40	0.28	1.6	<1	0.6	2540	0.05	<0.05	1.0	0.032	0.07
K306974		140	4.0	9.5	0.003	0.43	0.31	1.4	<1	0.5	1810	0.06	<0.05	1.0	0.031	0.10
K306975		140	4.0	9.4	0.004	0.41	0.32	1.4	<1	0.5	1775	0.05	<0.05	1.1	0.030	0.10
K306976		190	2.7	9.4	0.002	0.38	0.38	1.5	<1	0.6	1780	0.06	<0.05	0.9	0.028	0.09
K306977		770	1.3	5.2	<0.002	0.20	0.22	0.8	<1	0.5	2050	<0.05	0.05	0.5	0.015	0.06
K306978		140	1.9	7.9	0.003	0.30	0.24	1.5	<1	0.5	2220	<0.05	<0.05	0.8	0.023	0.07
K306979		350	2.0	8.0	<0.002	0.31	0.25	1.2	<1	0.6	1975	<0.05	<0.05	0.7	0.022	0.08
K306980		300	3.4	10.2	0.002	0.32	0.19	1.2	2	0.2	2150	0.05	<0.05	0.8	0.023	0.11
K306981		480	2.1	8.1	0.002	0.26	0.18	1.0	2	0.2	2030	<0.05	0.05	0.7	0.019	0.10
K306982		130	2.3	14.6	<0.002	0.41	0.33	1.9	2	0.3	1790	0.07	<0.05	1.1	0.033	0.36
K306983		180	4.4	21.4	0.002	0.59	0.34	2.3	2	0.4	1815	0.10	<0.05	1.6	0.049	0.32
K306984		690	1.0	2.9	<0.002	0.12	0.10	0.6	1	<0.2	1815	<0.05	<0.05	0.3	0.008	0.04
K306985		500	8.9	47.0	0.008	1.37	87.9	5.1	3	2.6	57.7	0.36	0.22	6.1	0.146	2.36
K306986		240	2.6	12.5	0.002	0.41	0.31	1.7	2	0.2	1935	0.06	0.05	1.0	0.030	0.20
K306987		560	4.7	27.0	0.002	0.86	0.51	3.0	2	0.5	1880	0.14	0.05	1.9	0.070	0.35
K306988		490	2.1	6.2	<0.002	0.25	0.17	1.2	2	<0.2	1640	<0.05	<0.05	0.5	0.016	0.06
K306989		190	7.3	28.7	0.002	0.83	0.50	3.4	2	0.6	1755	0.15	0.05	2.1	0.079	0.31
K306990		200	6.4	28.8	0.002	0.74	0.45	3.5	2	0.5	1870	0.14	0.06	2.1	0.069	0.28
K306991		170	1.2	1.4	<0.002	0.02	<0.05	0.3	1	<0.2	48.2	<0.05	<0.05	<0.2	<0.005	<0.02
K306992		190	6.1	22.0	0.002	0.63	0.38	3.0	2	0.4	1760	0.12	<0.05	1.8	0.061	0.24
K306993		380	6.3	29.6	0.002	0.77	0.50	3.8	2	0.5	2110	0.14	0.06	2.0	0.075	0.29
K306994		340	8.4	42.0	0.003	1.02	0.67	5.8	2	0.7	1850	0.20	0.05	2.7	0.122	0.43
K306995		610	6.8	40.2	0.003	1.05	0.55	5.4	2	0.7	1580	0.21	<0.05	2.7	0.125	0.75
K306996		230	9.0	56.4	0.003	1.43	0.74	7.2	2	1.0	1155	0.29	0.06	3.6	0.183	1.41
K306997		300	7.4	52.9	0.003	1.19	0.82	6.1	2	0.9	1430	0.24	0.05	3.0	0.145	1.30
K306998		350	9.3	50.0	0.003	1.39	1.00	5.9	2	0.8	1455	0.25	0.05	3.5	0.145	2.29

Comments: \*\*Corrected Copy for Au- AA26\*\*

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 Finalized Date: 10- JUL- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K306963		11.0	31	1.9	7.0	8	39.3
K306964		9.7	59	2.3	11.5	15	71.5
K307359		0.4	3	0.1	0.7	15	<0.5
K306966		4.9	41	1.6	9.4	6	57.8
K306967		7.0	37	1.5	9.4	33	41.7
K306968		8.7	247	28.9	18.5	228	63.5
K306969		8.5	30	1.3	7.4	7	30.8
K306970		5.0	40	2.0	9.5	7	45.7
K306971		1.4	9	0.1	7.5	5	7.3
K306972		2.0	11	0.1	8.8	9	9.2
K306973		2.7	11	0.2	10.1	15	9.3
K306974		1.9	11	0.2	7.9	4	8.6
K306975		1.8	11	0.2	7.9	4	8.7
K306976		1.5	11	0.2	7.8	3	8.3
K306977		1.7	7	0.1	6.2	5	6.1
K306978		1.8	8	0.1	7.7	5	7.4
K306979		1.6	9	0.1	7.1	5	7.0
K306980		1.8	8	0.2	8.8	7	8.0
K306981		1.8	6	0.1	8.2	5	7.3
K306982		2.0	11	0.3	11.4	9	10.0
K306983		2.5	14	0.2	11.8	10	15.7
K306984		1.5	3	0.1	5.7	4	4.6
K306985		5.8	87	63.3	15.2	68	49.0
K306986		2.0	10	0.2	11.1	9	10.0
K306987		1.9	21	0.3	12.1	17	20.4
K306988		1.1	6	0.1	12.1	2	7.3
K306989		2.2	21	0.4	17.9	9	20.9
K306990		2.4	20	0.3	19.4	9	20.2
K306991		0.6	2	0.1	1.0	17	<0.5
K306992		1.8	18	0.3	13.6	12	16.4
K306993		2.2	22	0.3	18.4	16	24.1
K306994		2.3	37	0.4	17.2	14	32.3
K306995		2.0	35	0.5	17.8	24	32.5
K306996		2.2	52	0.6	20.5	36	43.2
K306997		1.8	41	0.5	20.3	27	42.4
K306998		2.5	40	0.7	17.9	24	40.5

Comments: \*\*Corrected Copy for Au- AA26\*\*

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Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12144262**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. REE's may not be totally soluble in this method.



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**CERTIFICATE WH12153606**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 066  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 3- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 22- JUL- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12153606**

Sample Description	WEI- 21 Recvd Wt. kg	Au- AA26 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M666602	7.76	<0.01	0.04	8.37	246	310	2.49	0.31	0.75	0.02	94.6	16.5	68	16.05	14.9
M666603	8.51	<0.01	0.03	8.25	23.8	550	2.56	0.30	0.45	<0.02	82.8	15.5	68	17.50	12.5
M666604	7.84	<0.01	0.02	7.98	37.1	760	2.58	0.32	0.40	<0.02	97.5	14.6	66	14.95	13.1
M666605	7.86	<0.01	0.01	8.31	9.5	360	2.48	0.31	0.40	<0.02	92.6	14.8	67	17.75	12.2
M666606	3.61	<0.01	<0.01	8.40	8.0	350	2.61	0.32	0.38	<0.02	73.8	15.2	69	17.80	12.9
M666607	5.67	<0.01	1.01	5.09	29.9	250	1.38	0.21	8.38	0.04	82.4	9.4	51	10.55	24.3
M666608	10.77	<0.01	0.10	2.40	32	110	0.70	0.10	16.60	0.05	40.2	4.4	22	4.83	10.6
M666609	9.82	<0.01	0.10	6.19	14.7	580	1.96	0.27	8.36	<0.02	88.1	8.8	49	18.15	25.1
M666610	10.08	<0.01	0.08	5.70	11	220	1.64	0.24	12.95	0.06	75.9	8.0	42	17.60	18.1
M666611	9.61	<0.01	0.12	5.97	24	230	1.54	0.23	13.35	0.07	74.0	11.1	42	21.4	23.3
M666612	6.90	<0.01	0.02	0.12	<5	40	0.08	0.02	19.90	0.06	1.38	0.8	3	0.45	2.7
M666613	8.44	0.01	0.06	3.91	29	230	1.13	0.15	21.7	0.05	44.1	8.2	27	13.95	15.3
M666614	5.81	<0.01	0.14	8.90	25.0	320	2.60	0.44	2.02	<0.02	74.9	18.8	68	42.6	28.9
M666615	11.02	<0.01	0.06	6.35	31.6	580	1.52	0.25	9.53	0.02	73.6	10.7	42	30.1	25.2
M666616	11.52	0.01	0.06	8.49	22.9	330	2.18	0.36	5.66	<0.02	84.9	12.5	57	39.8	30.1
M666617	0.26	0.33	0.30	6.37	605	450	0.59	0.26	0.45	0.17	144.5	2.7	229	3.23	28.6
M666618	10.62	<0.01	0.05	8.70	20.1	380	2.72	0.40	0.92	<0.02	69.6	12.7	70	39.3	25.1
M666619	6.74	0.01	0.02	9.04	13.4	340	2.85	0.35	1.33	<0.02	74.9	10.6	74	42.4	26.7
M666620	9.08	<0.01	0.01	8.64	64.9	350	3.09	0.36	1.79	0.02	77.8	11.2	66	38.4	36.5
M666621	5.67	0.01	0.07	3.41	98	150	1.02	0.12	19.10	0.04	37.2	7.0	25	9.71	9.0
M666622	11.41	<0.01	0.09	3.82	110	190	1.29	0.10	18.75	0.05	37.3	7.2	27	13.45	24.8
M666623	6.91	<0.01	0.01	0.10	<5	20	0.08	0.01	19.75	0.05	1.40	0.6	3	0.53	2.3
M666624	11.45	0.01	0.08	2.29	193	190	0.74	0.06	22.5	0.04	26.0	4.9	17	7.24	9.5
M666625	12.27	0.02	0.05	3.35	198	240	0.94	0.11	21.7	0.04	38.7	5.2	25	11.55	12.1
M666626	11.14	0.02	0.06	3.46	251	160	0.99	0.10	19.95	0.06	39.0	4.8	23	10.30	12.4
M666627	<0.02	0.02	0.06	3.18	219	140	1.06	0.11	19.85	0.08	36.8	4.6	23	9.93	11.8
M666628	5.97	0.28	0.03	1.21	522	120	0.47	0.04	17.30	0.03	15.95	5.2	10	3.47	8.9
M666629	9.49	0.02	0.06	6.77	399	510	2.24	0.27	7.14	0.30	76.3	13.4	44	24.1	28.2
M666630	6.42	0.15	0.07	0.30	310	30	0.14	<0.01	19.65	0.04	11.70	1.8	5	0.51	8.4
M666631	10.84	0.20	0.05	0.51	433	20	0.26	0.01	18.85	0.03	8.80	1.0	5	0.86	5.2
M666632	11.71	0.16	0.05	0.73	232	40	0.30	0.01	18.45	0.02	9.80	1.6	5	1.11	5.3
M666633	0.20	0.43	0.43	6.51	606	1220	0.55	0.23	0.66	0.19	151.5	3.8	226	3.26	15.0
M666634	10.56	0.24	0.06	0.94	377	50	0.35	0.03	16.95	0.03	15.70	1.6	6	1.84	5.4
M666635	11.18	0.08	0.05	0.84	220	40	0.34	0.02	17.60	0.02	13.60	1.6	5	1.56	4.9
M666636	10.95	<0.01	0.09	0.60	222	430	0.25	0.01	18.85	0.03	10.15	1.4	5	1.13	6.0
M666637	11.48	0.02	0.06	1.17	161	140	0.36	0.01	15.15	0.02	15.25	1.0	9	2.47	3.8



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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 22- JUL- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12153606**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M666602		4.57	22.6	0.22	3.6	0.31	0.069	3.53	46.6	110.5	1.31	280	0.25	0.05	12.1	38.5
M666603		4.57	23.1	0.21	3.4	0.2	0.073	3.73	39.6	126.5	1.27	259	0.26	0.07	11.8	37.6
M666604		4.90	21.5	0.24	3.6	0.32	0.059	3.59	49.0	123.5	1.26	302	0.26	0.07	11.7	33.2
M666605		4.97	21.9	0.25	3.4	<0.1	0.073	3.80	43.2	85.8	1.25	233	0.22	0.08	11.4	35.1
M666606		5.15	22.5	0.19	3.4	0.05	0.071	3.90	34.6	89.0	1.25	235	0.25	0.09	11.8	36.2
M666607		3.03	12.55	0.21	2.7	0.82	0.052	2.64	39.5	12.8	0.62	275	0.67	0.01	8.1	24.8
M666608		2.43	5.88	0.17	1.3	0.3	0.027	1.27	17.7	7.2	5.37	837	0.28	0.01	3.8	12.9
M666609		1.62	16.70	0.22	3.4	0.23	0.044	3.25	43.3	19.0	0.67	211	0.31	0.03	10.6	21.9
M666610		1.91	14.00	0.23	3.0	0.1	0.044	3.02	38.6	15.3	0.81	278	0.28	0.02	8.7	21.3
M666611		2.49	14.50	0.25	2.6	0.26	0.048	3.10	38.7	13.4	0.70	293	0.60	0.02	8.0	28.3
M666612		0.50	0.32	0.20	<0.1	<0.01	0.005	0.06	0.7	1.6	13.05	207	0.19	<0.01	0.2	2.5
M666613		2.44	9.09	0.19	1.3	0.1	0.030	2.03	22.1	7.6	1.35	489	0.49	0.01	4.6	18.9
M666614		3.06	25.6	0.25	3.2	0.1	0.066	4.88	37.2	20.7	1.01	261	1.09	0.03	12.1	37.4
M666615		4.56	16.65	0.22	2.5	0.07	0.052	3.39	37.8	17.8	2.45	715	0.42	0.03	8.5	25.1
M666616		3.87	21.4	0.23	3.3	<0.1	0.065	4.37	42.1	26.4	1.73	549	0.50	0.04	11.3	28.4
M666617		6.48	20.1	0.25	4.6	8.7	0.047	1.43	69.0	17.2	0.13	34	6.42	0.37	9.6	16.1
M666618		3.93	24.5	0.22	4.0	0.05	0.082	4.89	31.1	29.8	0.99	334	0.29	0.05	12.9	33.8
M666619		3.94	26.2	0.22	3.8	0.04	0.081	4.89	34.4	30.4	1.13	288	0.25	0.03	13.8	38.0
M666620		4.30	24.5	0.21	3.8	0.3	0.077	4.59	36.5	29.5	1.21	342	0.33	0.03	13.1	37.7
M666621		2.40	8.31	0.18	1.6	0.17	0.034	1.81	19.1	7.5	2.99	564	0.64	0.01	4.6	13.8
M666622		2.07	9.30	0.17	1.8	0.39	0.024	2.03	20.6	10.3	3.08	507	0.72	0.01	5.4	13.8
M666623		0.48	0.30	0.16	<0.1	0.01	<0.005	0.06	0.7	1.3	12.90	211	0.09	<0.01	0.2	1.8
M666624		1.32	5.69	0.17	1.2	0.2	0.020	1.23	12.8	6.7	3.93	355	0.46	0.01	3.3	9.4
M666625		1.33	8.23	0.20	1.6	0.20	0.031	1.77	18.5	9.6	2.40	390	0.44	0.01	4.7	11.5
M666626		1.43	8.21	0.19	1.7	0.48	0.029	1.78	19.3	9.8	4.22	374	0.57	0.01	4.7	9.3
M666627		1.37	7.96	0.22	1.5	0.47	0.026	1.69	18.1	9.7	3.98	371	0.57	0.01	4.6	9.5
M666628		3.35	3.11	0.14	0.6	1.01	0.011	0.66	7.9	4.1	8.67	894	0.41	<0.01	1.7	12.7
M666629		3.52	17.35	0.24	3.0	1.19	0.056	3.62	37.2	21.8	2.99	218	0.66	0.03	9.8	33.3
M666630		1.23	0.85	0.17	0.7	1.40	<0.005	0.14	6.3	2.3	11.80	882	0.13	<0.01	0.4	6.6
M666631		1.03	1.32	0.16	0.3	1.20	0.006	0.25	4.3	3.2	11.90	750	0.15	<0.01	0.8	4.8
M666632		1.17	1.85	0.15	0.5	1.29	0.007	0.36	4.9	3.9	11.65	740	0.24	<0.01	1.1	7.1
M666633		6.09	21.4	0.26	4.4	10.3	0.055	1.42	65.9	17.6	0.14	14	5.19	0.41	9.5	13.4
M666634		0.97	2.43	0.17	0.7	1.3	0.006	0.46	7.8	4.9	10.75	598	0.27	<0.01	1.6	5.0
M666635		0.85	2.09	0.17	0.8	0.7	0.005	0.42	7.0	4.9	11.15	572	0.17	<0.01	1.3	5.7
M666636		1.02	1.47	0.18	0.6	0.7	<0.005	0.29	5.5	3.4	11.85	619	0.19	0.01	0.9	6.4
M666637		0.79	2.62	0.19	2.0	0.41	0.007	0.66	7.2	5.1	9.57	517	0.35	<0.01	1.9	4.7

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 Finalized Date: 22- JUL- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12153606**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M666602		470	14.9	174.0	<0.002	1.30	0.47	17.5	<1	2.7	444	0.87	0.10	15.8	0.444	1.51
M666603		450	15.0	164.5	<0.002	0.40	0.46	17.1	<1	2.6	452	0.84	<0.05	13.9	0.424	1.08
M666604		420	13.1	184.0	<0.002	0.33	0.53	16.2	1	2.6	315	0.83	0.08	15.6	0.413	1.15
M666605		460	15.4	190.5	<0.002	0.03	0.53	16.6	1	2.6	146.5	0.81	<0.05	15.5	0.431	0.91
M666606		450	14.3	174.5	<0.002	0.01	0.60	16.7	<1	2.6	148.5	0.82	0.05	12.9	0.432	0.94
M666607		240	52.5	112.5	0.002	0.25	0.73	8.4	1	1.8	159.0	0.59	<0.05	10.9	0.300	2.01
M666608		910	21.1	53.6	0.002	0.44	0.45	3.9	1	0.9	160.5	0.25	<0.05	5.0	0.121	1.02
M666609		450	19.4	150.5	<0.002	0.58	0.66	10.5	1	2.2	220	0.73	<0.05	13.2	0.304	1.12
M666610		460	22.5	131.0	0.002	0.40	0.51	8.6	1	1.7	288	0.59	<0.05	11.6	0.273	0.96
M666611		240	42.5	128.0	<0.002	0.90	0.61	9.2	1	1.9	315	0.56	<0.05	11.1	0.257	1.48
M666612		160	1.6	3.4	<0.002	0.01	0.15	0.3	<1	0.2	44.0	<0.05	<0.05	<0.2	0.005	0.02
M666613		430	19.6	76.8	<0.002	0.66	0.54	6.0	<1	1.1	509	0.32	<0.05	6.4	0.148	0.88
M666614		320	24.2	159.5	0.004	0.53	0.97	14.8	1	2.9	113.5	0.85	0.09	13.1	0.380	1.89
M666615		420	10.4	134.5	<0.002	0.14	0.44	10.8	1	1.9	225	0.58	<0.05	11.7	0.269	1.07
M666616		610	10.0	185.5	<0.002	0.06	0.46	15.4	1	2.7	227	0.77	0.11	13.9	0.369	1.01
M666617		900	17.7	51.5	0.003	3.05	108.5	15.3	1	3.0	510	0.66	0.14	10.1	0.544	8.34
M666618		650	10.1	182.5	<0.002	0.04	0.44	17.2	1	3.0	74.5	0.88	0.13	12.7	0.433	1.08
M666619		1010	8.3	168.0	<0.002	0.03	0.27	19.1	1	3.2	94.7	0.93	0.24	13.4	0.472	1.13
M666620		980	8.1	175.5	<0.002	1.98	0.28	17.9	<1	3.0	99.4	0.89	0.05	14.0	0.448	3.27
M666621		610	7.4	70.7	0.002	0.22	0.32	6.0	1	1.1	599	0.32	<0.05	6.1	0.149	1.43
M666622		490	7.2	83.1	<0.002	0.15	0.39	6.3	1	1.2	835	0.36	<0.05	6.4	0.170	2.29
M666623		170	1.5	3.4	<0.002	0.01	0.10	0.3	<1	0.2	43.8	<0.05	<0.05	0.2	<0.005	0.02
M666624		440	6.3	48.7	<0.002	0.14	0.35	3.9	<1	0.8	838	0.22	<0.05	4.2	0.101	1.47
M666625		630	6.1	75.3	<0.002	0.19	0.32	5.8	1	1.2	522	0.33	<0.05	6.0	0.145	1.35
M666626		630	7.2	71.1	<0.002	0.34	0.33	6.0	1	1.2	561	0.32	<0.05	6.0	0.146	1.59
M666627		600	7.1	68.0	<0.002	0.34	0.30	5.6	1	1.1	552	0.31	<0.05	5.8	0.140	1.48
M666628		370	3.2	25.5	<0.002	0.26	0.33	2.2	1	0.5	125.5	0.12	<0.05	2.2	0.057	1.95
M666629		820	22.5	141.5	<0.002	2.79	1.22	12.5	1	2.2	130.5	0.67	0.07	12.8	0.326	4.14
M666630		760	8.3	4.9	<0.002	0.46	0.49	0.8	<1	0.3	87.7	<0.05	<0.05	0.5	0.012	2.54
M666631		480	4.7	8.7	<0.002	0.25	0.68	1.0	<1	0.3	85.6	0.05	<0.05	1.0	0.022	4.15
M666632		490	7.0	12.5	<0.002	0.37	0.94	1.2	<1	0.4	80.2	0.08	<0.05	1.6	0.032	3.40
M666633		920	14.8	55.3	0.002	3.18	108.5	15.7	1	2.3	534	0.66	0.09	9.9	0.519	8.75
M666634		400	7.2	16.7	<0.002	0.29	0.93	1.6	1	0.5	98.3	0.10	<0.05	2.2	0.043	2.87
M666635		470	7.5	14.0	<0.002	0.20	0.57	1.3	1	0.4	72.4	0.09	<0.05	1.9	0.038	2.44
M666636		440	9.1	9.2	0.003	0.27	0.69	1.0	1	0.3	80.6	0.06	<0.05	1.3	0.026	1.93
M666637		470	6.8	20.6	<0.002	0.12	0.41	1.7	<1	0.5	75.5	0.14	<0.05	3.0	0.056	1.67





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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12153606**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M666602		2.4	99	2.5	20.7	76	113.5
M666603		2.2	96	1.9	18.9	72	106.0
M666604		2.4	86	1.7	21.3	69	116.5
M666605		2.4	95	1.4	20.2	70	108.5
M666606		2.2	97	1.5	17.3	71	105.0
M666607		2.9	67	4.5	20.0	41	85.5
M666608		2.5	32	1.0	11.2	20	42.6
M666609		3.3	70	1.4	21.4	33	111.0
M666610		4.1	62	1.1	17.3	43	95.5
M666611		3.9	64	1.1	16.1	95	79.7
M666612		0.6	3	0.1	0.8	15	0.6
M666613		3.7	42	0.6	12.1	90	44.7
M666614		4.9	105	1.6	17.3	30	101.0
M666615		5.6	74	1.3	22.0	33	83.8
M666616		5.8	109	1.4	22.9	35	111.0
M666617		7.9	172	20.8	14.5	45	171.0
M666618		3.5	128	1.7	22.3	40	125.0
M666619		3.5	139	1.9	24.3	41	120.5
M666620		3.7	124	2.6	24.5	36	119.5
M666621		7.5	47	1.0	12.4	17	52.5
M666622		10.1	56	1.0	11.6	19	63.0
M666623		0.7	3	0.1	0.8	14	0.7
M666624		10.9	33	0.5	8.5	11	39.2
M666625		6.8	45	0.6	11.8	14	51.4
M666626		6.3	46	0.8	12.1	23	55.6
M666627		6.4	44	0.7	11.8	23	50.9
M666628		3.4	18	0.8	6.2	20	19.8
M666629		4.0	90	2.4	21.7	118	111.5
M666630		3.4	6	0.3	6.6	11	6.3
M666631		2.2	9	0.5	4.3	5	11.9
M666632		3.9	12	0.6	4.3	5	17.9
M666633		7.7	167	29.9	14.7	39	171.0
M666634		5.4	16	0.9	5.7	7	25.6
M666635		6.3	13	0.6	6.1	6	23.3
M666636		5.1	12	0.4	5.2	7	19.6
M666637		4.6	18	0.5	6.5	5	67.9



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12153606**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12150397**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 069  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 29- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150397**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K306745		10.34	2.69	0.08	2.14	637	110	0.60	0.05	16.45	0.59	25.6	2.5	22	4.71	8.8
K306746		11.88	0.64	0.07	3.78	546	140	1.10	0.08	12.70	0.17	41.4	4.7	35	10.40	15.4
K306747		11.02	0.01	0.11	3.20	193	130	1.22	0.07	22.8	0.17	32.0	5.4	24	11.60	15.0
K306748		10.91	0.76	0.08	3.40	933	120	1.24	0.06	17.55	0.09	32.8	5.8	26	11.55	12.2
K306749		11.62	0.88	0.10	2.34	1700	70	0.66	0.05	18.55	0.21	24.3	3.5	22	6.11	10.6
K306750		0.26	2.58	1.05	3.31	608	860	0.68	0.27	8.37	2.17	45.8	6.9	56	3.67	39.7
K306901		10.53	1.90	0.10	2.85	2410	130	0.94	0.06	20.4	0.19	28.1	6.4	30	7.68	12.8
K306902		9.00	0.34	0.05	1.57	660	330	0.59	0.04	29.2	0.15	20.5	2.5	17	4.80	9.6
K306903		11.10	0.01	0.05	0.86	29	330	0.28	0.03	33.5	0.11	11.40	2.1	9	2.51	5.4
K306904		4.99	<0.01	0.04	0.79	28	340	0.37	0.03	33.8	0.14	10.90	2.0	8	2.38	5.9
K306905		9.78	0.05	0.08	2.86	102	760	0.89	0.06	22.4	0.10	31.7	4.9	27	8.96	17.6
K306906		7.62	0.01	0.04	1.04	45	310	0.42	0.03	31.2	0.10	16.40	2.1	11	3.09	7.2
K306907		11.48	1.44	0.06	2.64	765	180	0.77	0.06	24.7	0.09	29.1	4.6	23	7.25	13.8
K306908		11.53	0.01	0.07	2.42	114	390	0.89	0.06	26.9	0.09	25.6	4.8	21	8.60	13.2
K306909		5.36	0.02	0.03	0.74	110	980	0.40	0.02	32.3	0.14	11.95	2.3	9	2.14	4.6
K306910		6.77	0.10	0.06	1.46	185	860	0.60	0.03	30.9	0.16	20.0	2.9	15	4.48	7.7
K306911		11.19	0.04	0.05	1.80	138	1410	0.76	0.04	28.3	0.09	23.5	3.8	18	4.93	8.0
K306912		12.18	0.04	0.05	3.42	1130	840	1.25	0.06	19.00	0.07	41.0	6.4	35	11.95	16.6
K306913		7.44	0.04	0.04	1.40	106	580	0.63	0.03	30.6	0.07	19.30	3.0	14	3.67	7.2
K306914		3.93	0.49	0.10	2.92	3000	150	0.60	0.10	13.30	0.20	40.5	5.0	31	5.15	16.2
K306915		5.31	0.42	0.09	2.79	>10000	80	0.42	0.06	10.25	0.28	34.9	5.2	33	4.31	17.0
K306916		6.97	<0.01	0.01	0.07	19	20	<0.05	0.03	21.6	0.06	1.16	1.3	<1	0.39	3.1
K306917		11.47	0.07	0.09	4.22	783	110	0.86	0.08	11.45	0.23	47.8	6.8	49	8.90	25.8
K306918		12.94	0.51	0.06	2.46	1080	80	0.42	0.06	15.55	0.26	24.3	3.5	27	3.94	17.1
K306919		5.69	0.83	0.12	4.50	6980	150	0.73	0.09	8.37	0.25	53.9	8.4	52	7.53	27.1
K306920		6.95	<0.01	<0.01	0.17	8	20	0.07	0.02	20.5	0.07	1.15	1.5	3	0.52	2.5
K306921		3.64	0.87	0.10	3.52	1965	130	0.65	0.07	9.93	0.19	39.6	6.0	40	5.85	21.8
K306922		8.28	0.02	0.05	1.30	155	120	0.29	0.03	26.7	0.23	16.40	2.9	13	2.40	6.8
K306923		<0.02	0.02	0.05	1.32	161	130	0.55	0.03	28.0	0.20	15.70	3.4	14	2.42	8.4
K306924		11.91	0.17	0.05	1.01	196	70	0.32	0.02	29.7	0.41	12.65	2.5	10	1.82	5.1
K306925		12.57	0.19	0.04	1.70	122	60	0.51	0.04	26.7	0.20	19.05	3.3	16	2.79	8.1
K306926		6.82	0.03	0.01	0.55	205	1990	0.29	0.01	20.1	0.20	9.05	2.1	5	1.06	3.3
K306927		12.61	0.04	0.01	0.51	593	500	0.32	0.02	19.90	0.09	8.21	1.8	6	0.93	3.2
K306928		5.80	0.11	0.06	0.57	1320	100	0.34	0.02	20.5	0.05	7.50	2.1	5	1.15	5.3
K306929		0.26	4.12	0.70	3.00	509	790	0.78	0.38	10.25	0.60	41.1	5.2	43	2.44	35.3
K306930		10.17	0.10	0.06	0.45	572	30	0.31	0.01	20.7	0.08	6.46	2.6	5	0.90	3.9



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**CERTIFICATE OF ANALYSIS WH12150397**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K306745		0.88	5.17	0.08	1.3	18.0	0.021	1.06	13.0	7.6	6.84	847	0.53	0.01	3.4	4.4
K306746		1.02	8.94	0.12	2.1	21.5	0.024	1.81	20.5	14.5	3.98	414	0.74	0.02	5.8	10.7
K306747		1.17	7.29	0.09	1.0	1.53	0.020	1.58	16.6	13.8	3.28	291	0.88	0.02	4.0	11.2
K306748		2.19	8.03	0.10	1.3	6.3	0.020	1.68	17.0	15.3	6.11	651	0.70	0.02	4.3	12.0
K306749		1.20	5.43	0.08	1.9	8.2	0.019	1.19	12.0	7.9	5.55	598	0.71	0.02	3.6	7.1
K306750		2.15	7.64	0.14	1.7	11.8	0.023	1.04	26.9	35.1	2.62	281	19.00	0.04	7.1	50.4
K306901		1.05	6.66	0.09	1.6	4.2	0.025	1.45	14.1	11.4	3.62	505	0.96	0.02	4.4	10.6
K306902		0.65	3.59	0.09	0.7	2.38	0.013	0.79	10.9	5.7	1.87	191	0.43	0.01	2.5	4.2
K306903		0.38	2.02	0.06	0.4	0.18	0.006	0.45	6.5	3.3	0.68	88	0.46	0.01	1.4	3.0
K306904		0.35	1.84	0.08	0.3	0.17	0.006	0.41	6.3	3.1	0.61	85	0.40	0.01	1.3	3.1
K306905		1.11	6.50	0.10	1.6	0.98	0.022	1.47	15.7	13.6	2.49	166	0.70	0.02	4.7	10.5
K306906		0.42	2.44	0.07	0.5	0.67	0.008	0.53	9.0	4.0	0.67	116	0.33	0.01	1.7	3.6
K306907		1.01	6.16	0.09	1.2	7.97	0.020	1.34	15.2	11.9	1.49	683	0.53	0.01	4.0	9.9
K306908		0.93	5.59	0.09	1.0	1.22	0.016	1.26	13.5	12.8	1.55	169	0.55	0.02	3.6	10.0
K306909		0.81	1.76	0.07	0.3	1.32	<0.005	0.39	6.6	3.4	1.66	192	0.45	0.01	1.3	4.5
K306910		0.62	3.43	0.07	0.7	1.24	0.011	0.76	10.8	6.3	0.96	141	0.69	0.01	2.5	6.1
K306911		0.88	4.38	0.09	0.8	0.96	0.014	0.93	12.1	8.9	1.37	159	0.55	0.02	2.8	7.7
K306912		1.37	8.21	0.11	1.8	4.67	0.024	1.82	20.1	18.7	2.38	236	0.60	0.03	5.5	14.5
K306913		0.74	3.43	0.09	0.7	2.43	0.011	0.73	10.3	7.2	1.80	163	0.54	0.01	2.3	6.3
K306914		1.44	6.95	0.12	1.4	11.7	0.033	1.34	20.9	12.3	2.18	718	0.99	0.01	4.5	12.2
K306915		1.60	7.64	<0.05	1.8	61.1	0.039	1.36	18.0	10.6	4.08	892	1.89	0.02	4.8	12.3
K306916		0.49	0.37	0.19	<0.1	0.5	<0.005	0.04	0.5	1.0	13.25	221	0.14	<0.01	0.3	<0.2
K306917		1.65	11.25	<0.05	2.2	19.6	0.028	2.15	24.3	20.2	4.20	466	1.45	0.02	7.3	17.1
K306918		1.14	6.25	<0.05	1.2	39.4	0.020	1.20	12.4	9.4	2.63	623	1.05	0.01	3.8	7.7
K306919		1.61	12.80	<0.05	2.6	22.9	0.030	2.35	27.9	18.2	4.41	1060	2.49	0.02	8.1	21.0
K306920		0.48	0.53	0.18	<0.1	0.07	<0.005	0.05	0.5	2.6	12.70	218	0.12	0.01	0.4	0.5
K306921		1.61	9.51	<0.05	2.2	37.2	0.027	1.79	20.1	14.3	4.40	765	1.82	0.02	6.3	15.5
K306922		0.63	2.90	<0.05	0.8	3.38	0.011	0.65	8.7	3.8	1.88	225	0.69	0.01	2.2	1.8
K306923		0.64	2.85	<0.05	0.7	3.47	0.010	0.67	8.5	5.7	1.88	230	0.68	0.01	2.3	5.0
K306924		0.57	2.17	<0.05	0.5	4.36	0.009	0.50	6.7	3.0	2.02	221	0.47	0.01	1.8	0.4
K306925		0.62	3.65	<0.05	0.9	2.62	0.012	0.84	10.0	5.0	2.64	270	0.60	0.01	2.8	3.2
K306926		0.38	1.41	0.17	0.5	1.2	0.005	0.25	5.6	3.1	11.95	479	0.20	0.02	1.1	0.3
K306927		0.48	1.27	0.14	0.4	1.2	<0.005	0.23	5.2	2.9	11.75	458	0.16	0.02	1.1	0.4
K306928		0.24	1.50	0.32	0.3	0.8	0.005	0.25	4.2	3.6	12.55	451	0.21	0.02	1.0	1.4
K306929		1.88	6.34	0.09	1.5	4.4	0.029	0.87	23.3	55.9	5.33	358	9.35	0.02	5.5	32.8
K306930		0.30	1.23	0.29	0.3	1.19	<0.005	0.20	3.7	3.0	12.60	383	0.37	0.01	1.0	3.0

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150397**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K306745		440	16.5	31.3	<0.002	0.48	1.19	3.8	2	0.8	109.5	0.23	<0.05	4.0	0.093	29.4
K306746		560	9.7	57.4	0.002	0.58	0.58	5.6	3	1.1	157.0	0.41	<0.05	7.0	0.163	18.80
K306747		360	12.0	47.2	<0.002	0.69	0.62	4.8	2	0.8	495	0.29	<0.05	4.9	0.114	4.21
K306748		390	9.6	48.8	<0.002	1.30	1.51	4.9	2	0.9	265	0.32	<0.05	5.5	0.124	18.10
K306749		370	8.2	36.2	<0.002	0.69	0.95	3.4	2	0.7	194.5	0.26	<0.05	4.5	0.099	17.45
K306750		910	38.2	45.0	0.023	1.58	105.5	5.1	4	2.4	69.7	0.45	0.22	6.1	0.176	3.94
K306901		500	8.0	47.6	0.002	0.62	0.88	4.3	3	0.9	288	0.32	0.05	5.4	0.123	24.6
K306902		250	11.0	24.3	<0.002	0.24	0.36	2.5	2	0.5	696	0.18	<0.05	2.9	0.066	5.40
K306903		140	4.3	13.9	<0.002	0.17	0.13	1.4	2	0.3	1035	0.10	<0.05	1.6	0.037	0.40
K306904		130	4.8	12.8	<0.002	0.15	0.14	1.4	2	0.3	1020	0.09	<0.05	1.5	0.034	0.38
K306905		480	8.7	49.4	0.002	0.38	0.26	4.4	3	0.9	640	0.35	0.05	5.7	0.129	1.50
K306906		220	3.5	17.7	<0.002	0.19	0.12	1.8	2	0.3	676	0.12	<0.05	2.1	0.044	0.92
K306907		310	5.3	49.8	<0.002	0.51	1.33	4.1	2	0.8	435	0.29	<0.05	4.8	0.110	17.15
K306908		330	5.0	43.1	<0.002	0.25	0.17	3.8	2	0.7	644	0.25	0.05	4.2	0.095	1.81
K306909		170	4.4	13.0	<0.002	0.24	0.15	1.3	2	0.2	1040	0.09	<0.05	1.5	0.032	2.30
K306910		270	5.9	25.9	<0.002	0.26	0.21	2.4	2	0.5	1175	0.17	0.06	3.0	0.064	2.40
K306911		240	5.4	33.0	<0.002	0.35	0.18	2.9	2	0.6	1020	0.20	<0.05	3.4	0.075	1.62
K306912		510	6.7	66.3	<0.002	0.47	0.38	5.3	3	1.1	434	0.39	<0.05	6.6	0.151	14.20
K306913		170	3.7	25.4	<0.002	0.25	0.16	2.4	2	0.4	833	0.15	<0.05	2.8	0.059	3.21
K306914		440	9.4	53.4	<0.002	1.32	3.29	4.9	2	1.4	282	0.33	<0.05	5.7	0.126	144.5
K306915		480	11.6	67.5	0.002	1.69	2.13	5.0	2	1.3	178.0	0.37	<0.05	6.2	0.134	116.0
K306916		190	1.3	2.8	<0.002	0.01	<0.05	0.4	<1	<0.2	47.5	<0.05	<0.05	<0.2	<0.005	0.25
K306917		710	12.4	103.5	<0.002	0.82	0.65	6.9	3	1.4	229	0.54	<0.05	9.2	0.189	34.6
K306918		400	9.0	55.4	<0.002	0.86	1.42	4.1	1	1.0	308	0.30	<0.05	4.8	0.104	60.5
K306919		770	15.2	108.5	0.002	1.29	1.96	7.4	4	1.6	211	0.61	<0.05	10.3	0.212	43.9
K306920		190	1.2	3.1	<0.002	0.01	<0.05	0.4	<1	<0.2	46.1	<0.05	<0.05	<0.2	<0.005	0.12
K306921		580	12.5	78.8	0.002	0.99	1.58	6.5	3	1.4	234	0.47	<0.05	7.6	0.170	72.5
K306922		210	6.5	24.3	<0.002	0.27	0.19	2.1	1	0.4	898	0.16	<0.05	2.5	0.057	6.19
K306923		210	7.9	23.9	0.002	0.27	0.19	2.6	1	0.4	913	0.15	0.05	3.0	0.058	6.89
K306924		150	7.2	17.8	<0.002	0.25	0.17	1.7	1	0.4	993	0.11	0.05	1.9	0.042	7.95
K306925		220	6.7	29.5	<0.002	0.28	0.17	2.8	1	0.5	775	0.20	<0.05	3.4	0.075	4.76
K306926		670	3.0	8.0	<0.002	0.20	0.39	1.1	<1	0.2	95.4	0.07	<0.05	1.3	0.025	1.81
K306927		460	3.7	7.1	<0.002	0.19	0.87	1.0	<1	0.3	88.0	0.06	<0.05	1.2	0.023	3.23
K306928		130	5.5	8.3	<0.002	0.15	0.74	1.3	<1	0.2	91.1	0.06	<0.05	1.1	0.024	4.18
K306929		550	10.0	47.4	0.010	1.56	91.3	5.1	2	2.6	56.1	0.38	0.25	6.4	0.155	2.50
K306930		120	7.2	6.6	0.002	0.17	0.70	1.1	<1	0.2	85.6	0.05	<0.05	1.0	0.019	4.28



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150397**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
K306745		16.1	32	1.9	8.0	189	47.3	
K306746		15.7	57	3.5	11.0	50	77.0	
K306747		13.7	48	2.6	7.6	37	34.3	
K306748		9.1	46	2.9	8.0	12	43.7	
K306749		9.7	31	2.6	8.1	31	68.5	
K306750		8.3	237	27.0	19.6	223	65.3	
K306901		11.3	45	2.8	8.3	27	57.1	
K306902		15.3	22	1.7	6.4	31	25.4	
K306903		15.2	13	0.6	3.6	21	13.0	
K306904		15.1	12	0.5	3.5	22	11.8	
K306905		13.6	40	1.2	9.3	29	57.7	
K306906		16.5	18	0.5	4.9	23	17.0	
K306907		13.3	39	2.4	8.3	15	41.6	
K306908		14.2	36	1.7	7.2	20	34.2	
K306909		14.4	12	0.8	3.8	25	12.1	
K306910		17.5	25	1.5	5.8	41	25.2	
K306911		11.1	28	1.8	6.6	25	29.7	
K306912		8.5	51	3.2	11.4	19	64.4	
K306913		19.9	22	1.4	5.5	26	24.1	
K306914		21.1	44	4.3	8.7	68	47.8	
K306915		14.4	50	4.0	10.2	70	62.4	1.110
K306916		0.6	2	0.1	1.1	15	<0.5	
K306917		10.8	68	4.6	18.2	68	80.6	
K306918		18.4	42	3.3	9.7	54	42.3	
K306919		12.8	80	5.6	13.5	66	94.4	
K306920		0.4	3	0.1	1.0	15	<0.5	
K306921		8.9	62	4.1	13.6	57	79.9	
K306922		14.1	20	1.2	6.7	42	27.6	
K306923		17.0	21	1.2	6.3	42	26.4	
K306924		15.1	15	1.0	4.5	66	17.8	
K306925		12.9	24	1.4	6.4	44	32.1	
K306926		5.3	14	0.6	7.6	14	18.4	
K306927		7.0	13	0.7	6.1	12	15.3	
K306928		11.7	17	0.8	2.9	12	11.1	
K306929		5.2	95	70.4	15.7	75	52.4	
K306930		14.0	9	0.7	2.7	25	8.9	



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12150397**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12152306**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 074  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12152306**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M667460		11.77	<0.01	0.10	2.56	27	180	0.91	0.05	21.3	0.19	33.1	5.7	28	7.53	14.8
M667461		11.16	0.01	0.06	3.90	44	130	1.46	0.10	12.55	0.06	44.6	7.1	40	13.65	32.0
M667462		11.07	<0.01	0.04	3.25	12	250	1.04	0.09	18.70	0.07	32.9	5.9	33	10.35	15.3
M667463		6.34	<0.01	0.03	2.16	18	80	0.78	0.07	22.7	0.07	25.3	3.8	22	6.22	13.6
M667464		9.90	<0.01	0.09	2.98	21	150	0.98	0.07	20.0	0.08	32.3	5.0	33	9.49	16.6
M667465		6.67	<0.01	0.05	3.65	19	160	1.17	0.10	18.60	0.10	37.7	7.8	38	14.20	38.0
M667466		8.73	0.01	0.04	4.40	22	290	1.34	0.14	16.35	0.06	42.0	6.9	46	15.60	22.9
M667467		8.20	<0.01	0.02	1.39	13	610	0.46	0.04	28.6	0.26	18.50	2.4	22	3.46	8.7
M667468		9.10	<0.01	0.03	0.83	8	220	0.38	0.03	29.6	0.32	13.45	1.9	11	2.11	4.5
M667469		8.88	<0.01	0.07	4.09	22	130	1.33	0.13	15.10	0.12	44.9	7.1	42	13.45	24.6
M667470		12.50	<0.01	0.09	4.41	35	170	1.69	0.14	10.55	0.08	51.0	7.0	49	15.25	23.2
M667471		9.13	<0.01	0.07	4.61	36	180	1.62	0.13	10.15	0.05	52.7	7.3	54	14.70	23.2
M667472		6.42	0.01	0.10	4.68	26.7	160	1.41	0.16	9.60	0.21	51.4	8.6	52	12.70	30.7
M667473		7.22	0.04	0.05	0.22	337	20	0.10	0.02	19.70	<0.02	4.30	0.6	3	0.26	3.2
M667474		10.83	0.06	0.07	0.22	332	30	0.12	0.01	20.9	0.02	4.04	0.7	3	0.28	2.3
M667475		10.54	0.21	0.08	0.17	404	20	0.14	0.01	21.0	0.03	3.54	0.7	2	0.25	2.2
M667476		3.27	0.02	0.07	0.16	394	20	0.08	0.01	20.6	<0.02	4.41	0.7	3	0.19	1.6
M667477		0.26	0.35	0.32	6.04	603	360	0.68	0.30	0.50	0.16	132.0	3.0	243	3.45	29.9
M667478		6.35	0.12	0.17	1.72	266	120	0.54	0.05	12.25	0.03	19.20	2.4	16	3.10	6.2
M667479		10.88	0.07	0.09	0.62	218	40	0.22	0.01	19.75	0.02	8.91	1.1	6	1.04	3.0
M667480		<0.02	0.07	0.08	0.57	203	40	0.26	0.01	17.80	<0.02	8.27	1.1	6	1.05	2.9
M667481		11.20	0.20	0.10	1.44	416	100	0.57	0.04	16.85	0.04	16.90	2.6	14	3.97	7.9
M667482		10.39	0.05	0.05	1.83	215	190	0.59	0.05	20.6	0.04	21.8	3.0	16	6.03	9.8
M667483		5.48	<0.01	0.07	4.47	17	220	1.20	0.11	12.30	0.12	46.5	4.2	45	11.00	22.3
M667484		11.11	0.05	0.05	0.83	259	60	0.28	0.02	21.2	0.31	12.40	1.7	10	2.24	5.0
M667485		10.74	0.08	0.07	2.43	316	140	0.68	0.06	18.30	0.06	26.7	2.9	20	10.45	11.8
M667486		6.89	<0.01	<0.01	0.07	<5	20	0.07	0.01	21.1	0.07	1.30	1.0	2	0.27	1.5
M667487		8.22	0.36	0.07	3.55	497	190	1.00	0.08	18.00	0.02	41.7	5.7	27	24.3	13.1
M667488		6.71	<0.01	0.08	3.97	78	320	0.82	0.08	18.10	0.02	42.7	5.2	35	25.9	15.5
M667489		6.88	<0.01	0.01	0.07	<5	20	0.05	0.02	21.5	0.05	1.13	0.8	2	0.30	1.6
M667490		7.09	0.01	0.12	0.67	51	820	0.16	0.02	34.1	0.08	9.70	1.6	8	2.76	5.5
M667491		9.04	0.04	0.11	1.25	244	280	0.39	0.03	31.5	0.06	20.2	2.2	12	6.92	5.8
M667492		8.13	0.02	0.07	1.14	156	1210	0.31	0.03	29.5	0.13	14.80	1.9	13	4.05	5.6
M667493		0.26	0.33	0.37	6.06	590	230	0.60	0.25	0.50	0.20	142.5	2.7	223	3.54	30.2
M667494		11.79	<0.01	0.04	0.68	101	310	0.17	0.02	36.1	0.07	9.31	1.4	8	2.18	4.1
M667495		5.12	<0.01	0.03	0.63	95	300	0.18	0.02	36.0	0.07	9.14	1.4	8	2.06	4.1

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12152306**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M667460		1.25	6.70	0.20	1.3	0.16	0.016	1.36	17.5	12.2	3.31	247	0.97	0.02	4.2	13.1
M667461		1.70	10.60	0.25	2.2	0.06	0.032	2.06	23.6	27.3	3.92	257	0.41	0.03	6.5	18.7
M667462		1.37	7.99	0.17	1.5	0.05	0.025	1.70	17.5	25.0	2.74	240	0.25	0.02	4.8	14.3
M667463		0.97	5.79	0.18	1.2	0.02	0.015	1.14	13.7	15.2	2.37	233	0.48	0.02	3.5	10.4
M667464		1.34	7.62	0.20	1.6	0.04	0.023	1.61	18.6	19.6	3.12	262	0.45	0.02	4.7	13.7
M667465		1.48	9.17	0.24	1.7	0.05	0.028	1.93	20.5	30.0	2.31	289	0.27	0.02	5.6	19.0
M667466		1.55	10.60	0.20	1.9	0.05	0.033	2.28	22.2	32.7	2.28	306	0.22	0.02	6.4	20.5
M667467		0.72	3.61	0.20	0.8	0.04	0.010	0.72	10.2	6.1	2.25	332	0.34	0.01	2.2	5.1
M667468		0.49	2.15	0.18	0.5	0.05	0.008	0.45	7.6	3.3	1.43	261	0.26	0.01	1.4	3.9
M667469		1.41	10.20	0.24	2.3	0.08	0.033	2.12	22.7	17.6	5.01	338	0.77	0.03	6.2	15.8
M667470		1.53	11.55	0.26	2.5	0.08	0.027	2.37	26.4	19.5	5.69	351	1.09	0.03	7.1	17.6
M667471		1.57	12.05	0.24	2.7	0.07	0.036	2.50	26.6	17.6	5.11	353	0.73	0.03	7.5	16.5
M667472		1.63	11.75	0.28	2.6	0.11	0.031	2.50	26.7	14.8	4.85	389	0.80	0.03	7.4	18.4
M667473		0.60	0.59	0.22	0.2	0.99	<0.005	0.10	2.4	1.7	11.70	513	0.32	0.02	0.3	1.3
M667474		0.68	0.63	0.26	0.2	1.52	<0.005	0.10	2.4	1.6	12.45	600	0.64	0.01	0.3	1.1
M667475		0.73	0.45	0.21	0.1	3.26	<0.005	0.07	2.2	1.6	12.00	641	0.84	0.01	0.2	1.5
M667476		0.74	0.44	0.23	0.2	2.17	<0.005	0.07	2.5	1.3	11.10	575	0.87	0.01	0.2	2.0
M667477		6.59	19.50	0.27	4.7	9.6	0.049	1.34	64.8	18.0	0.14	38	6.05	0.36	9.5	15.8
M667478		0.78	4.04	0.23	2.5	1.23	0.011	0.81	8.8	8.6	7.06	385	0.64	0.02	2.7	5.1
M667479		0.70	1.41	0.23	0.8	0.81	0.007	0.26	4.6	3.5	10.90	543	0.45	0.02	1.0	2.7
M667480		0.65	1.37	0.24	0.9	0.83	0.006	0.25	4.4	3.3	9.81	489	0.39	0.02	0.9	2.4
M667481		1.03	3.32	0.24	1.2	1.45	0.009	0.78	9.1	8.5	9.14	593	0.43	0.02	2.2	5.6
M667482		0.91	4.37	0.05	1.3	0.52	0.013	0.96	11.9	9.8	6.21	319	0.43	0.02	3.0	3.3
M667483		1.44	10.35	0.09	2.2	0.08	0.035	2.38	24.1	11.7	5.31	433	0.41	0.03	7.0	7.7
M667484		1.09	1.93	0.06	0.5	0.99	0.009	0.41	7.5	4.0	10.75	665	0.29	0.02	1.3	0.8
M667485		1.13	5.37	0.07	1.4	0.86	0.016	1.29	14.1	11.3	6.69	346	0.44	0.02	3.7	5.2
M667486		0.45	0.24	0.06	<0.1	0.01	0.006	0.03	0.6	0.9	12.45	201	0.11	<0.01	0.3	<0.2
M667487		1.66	8.14	0.07	1.2	3.14	0.026	1.94	21.4	19.5	5.07	365	0.59	0.02	4.5	11.1
M667488		1.51	8.67	0.08	1.6	0.21	0.026	2.27	21.6	21.6	2.64	261	0.80	0.03	5.3	11.3
M667489		0.47	0.20	0.06	<0.1	0.01	<0.005	0.03	0.5	0.9	12.75	207	0.12	<0.01	0.2	<0.2
M667490		0.38	1.47	0.05	0.3	0.10	0.006	0.37	6.2	2.9	0.45	138	0.47	0.01	1.1	0.7
M667491		0.55	2.72	0.05	0.5	0.12	0.011	0.69	11.1	8.1	0.72	168	0.46	0.01	1.8	1.4
M667492		0.51	2.46	0.05	0.7	0.21	0.008	0.67	8.2	5.2	1.50	172	0.61	0.02	1.9	2.2
M667493		6.69	19.80	0.24	4.2	9.1	0.046	1.35	70.2	17.4	0.13	36	6.71	0.39	9.7	15.3
M667494		0.36	1.37	<0.05	0.3	0.12	0.005	0.38	5.8	2.7	0.33	67	0.38	0.01	1.2	1.5
M667495		0.33	1.32	0.05	0.2	0.12	0.005	0.36	5.7	2.9	0.30	66	0.39	0.01	1.1	1.4

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12152306**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M667460		310	6.8	51.2	0.002	0.22	0.36	4.1	2	0.9	449	0.31	<0.05	6.0	0.116	0.42
M667461		430	7.5	84.4	<0.002	0.07	0.29	6.6	3	1.4	196.5	0.48	0.08	9.0	0.178	0.55
M667462		340	5.7	65.2	<0.002	0.04	0.18	4.9	2	1.1	320	0.37	<0.05	7.1	0.145	0.43
M667463		220	6.1	43.8	0.003	0.06	0.18	3.6	1	0.9	411	0.25	0.05	5.0	0.097	0.55
M667464		380	7.6	59.9	0.004	0.06	0.22	4.8	2	1.1	342	0.36	<0.05	6.9	0.137	0.43
M667465		440	5.3	71.8	<0.002	0.03	0.25	5.7	1	1.4	273	0.43	0.07	8.0	0.162	0.58
M667466		550	6.6	82.9	0.002	0.05	0.25	6.7	1	1.4	270	0.50	<0.05	9.3	0.194	0.60
M667467		330	4.1	25.6	<0.002	0.08	0.19	2.3	<1	0.5	824	0.17	<0.05	3.1	0.061	0.39
M667468		340	3.2	15.0	0.002	0.06	0.12	1.4	1	0.4	987	0.11	<0.05	2.0	0.038	0.13
M667469		440	6.8	76.1	0.002	0.10	0.33	6.2	2	1.4	257	0.49	<0.05	9.5	0.182	0.52
M667470		510	8.2	86.7	<0.002	0.18	0.36	6.9	2	1.6	133.5	0.51	0.07	10.6	0.205	0.44
M667471		560	8.1	90.7	0.003	0.17	0.28	7.5	2	1.7	138.5	0.59	<0.05	11.6	0.219	0.48
M667472		540	7.7	83.6	0.002	0.25	0.38	7.4	2	1.7	134.5	0.55	0.07	11.6	0.228	0.64
M667473		210	4.0	3.0	<0.002	0.01	1.55	0.4	1	0.2	58.4	<0.05	<0.05	0.5	0.011	2.23
M667474		210	4.5	3.0	<0.002	0.01	2.14	0.4	<1	0.2	67.0	<0.05	<0.05	0.5	0.010	2.96
M667475		220	6.9	2.2	<0.002	0.01	3.02	0.4	1	0.2	74.4	<0.05	<0.05	0.4	0.006	3.78
M667476		420	3.8	1.9	<0.002	0.01	0.88	0.3	1	0.2	60.8	<0.05	<0.05	0.4	0.007	3.32
M667477		890	18.2	47.4	0.004	3.00	114.0	14.8	1	2.9	499	0.71	0.15	11.3	0.549	8.77
M667478		530	11.3	24.4	0.002	0.02	1.16	2.6	<1	0.6	91.1	0.20	<0.05	4.8	0.081	5.72
M667479		250	6.0	8.1	0.002	0.01	0.64	1.0	1	0.3	74.9	0.06	<0.05	1.5	0.028	2.95
M667480		230	5.6	7.6	0.002	0.01	0.59	0.9	<1	0.3	68.2	0.07	<0.05	1.5	0.026	2.57
M667481		310	8.9	24.6	<0.002	0.01	0.99	2.1	<1	0.5	82.3	0.16	<0.05	3.6	0.068	4.35
M667482		300	7.2	26.7	<0.002	0.06	0.46	3.0	2	0.6	229	0.24	<0.05	4.3	0.086	3.68
M667483		510	6.8	68.7	<0.002	0.13	0.22	7.1	2	1.6	150.5	0.56	<0.05	9.7	0.212	0.50
M667484		180	6.1	10.5	<0.002	0.04	0.63	1.4	1	0.3	126.5	0.10	<0.05	1.8	0.037	2.93
M667485		330	6.6	35.4	<0.002	0.08	0.48	3.7	2	0.7	195.5	0.28	<0.05	5.1	0.108	8.17
M667486		170	1.2	1.5	<0.002	0.01	<0.05	0.3	1	<0.2	43.5	<0.05	<0.05	<0.2	<0.005	0.03
M667487		380	8.1	61.5	<0.002	0.11	0.60	5.6	2	0.9	524	0.35	<0.05	6.9	0.133	4.22
M667488		540	6.9	70.1	<0.002	0.07	0.22	5.6	1	1.0	705	0.39	<0.05	7.5	0.160	0.72
M667489		170	1.2	1.5	<0.002	0.01	<0.05	0.3	1	<0.2	40.1	<0.05	<0.05	<0.2	<0.005	0.02
M667490		140	5.5	10.3	<0.002	0.06	0.12	1.1	1	0.3	1380	0.08	<0.05	1.4	0.029	0.53
M667491		190	5.2	21.7	<0.002	0.04	0.13	2.2	2	0.4	1660	0.13	<0.05	2.6	0.048	1.15
M667492		200	4.6	19.6	<0.002	0.12	0.19	1.7	2	0.4	1320	0.13	0.05	2.6	0.052	0.95
M667493		900	17.4	42.3	0.003	3.12	115.5	17.5	2	3.0	511	0.73	0.15	10.7	0.552	8.15
M667494		140	5.3	11.0	<0.002	0.05	0.17	1.0	2	0.2	2220	0.08	0.06	1.4	0.030	0.56
M667495		120	5.4	10.3	<0.002	0.04	0.12	1.0	1	0.2	2170	0.07	<0.05	1.5	0.028	0.55



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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12152306**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
						Zr	
						0.5	
M667460		11.8	39	0.6	9.6	91	42.1
M667461		5.0	52	0.9	13.5	38	70.1
M667462		6.4	42	0.6	10.4	32	48.2
M667463		10.4	30	0.5	8.2	21	41.8
M667464		10.4	42	0.7	11.0	25	53.6
M667465		5.1	46	0.7	12.4	31	56.7
M667466		6.3	61	0.8	13.6	32	62.3
M667467		6.5	20	0.3	6.8	11	28.1
M667468		6.3	14	0.2	5.2	8	17.1
M667469		7.2	58	0.8	13.1	34	67.4
M667470		4.0	64	0.9	15.8	19	83.2
M667471		4.7	64	1.0	15.9	18	86.5
M667472		7.7	67	1.3	14.6	89	194.0
M667473		3.9	7	0.3	2.0	3	6.8
M667474		3.9	8	0.3	2.1	5	5.8
M667475		4.2	7	0.3	2.4	13	5.0
M667476		5.2	7	0.2	3.4	5	8.1
M667477		8.4	166	22.8	14.8	43	168.5
M667478		5.4	27	1.3	8.1	7	81.6
M667479		6.4	11	0.4	4.0	5	29.3
M667480		6.0	10	0.5	3.7	4	26.9
M667481		7.6	24	0.8	5.9	10	39.0
M667482		9.0	31	0.8	7.0	10	41.1
M667483		6.0	55	1.2	12.5	38	69.5
M667484		7.8	16	0.7	3.8	50	16.3
M667485		7.6	36	1.0	7.6	16	47.1
M667486		0.4	2	0.1	0.8	16	<0.5
M667487		8.5	47	0.8	9.3	13	39.3
M667488		9.4	55	1.1	10.1	17	53.1
M667489		0.5	2	0.1	0.7	13	<0.5
M667490		12.8	18	0.2	2.8	17	8.6
M667491		11.4	24	0.2	4.9	13	15.7
M667492		9.4	19	0.4	4.4	13	23.9
M667493		8.0	163	23.5	13.2	42	169.0
M667494		13.5	10	0.2	2.8	12	8.9
M667495		14.3	9	0.2	2.8	11	8.3



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**CERTIFICATE OF ANALYSIS WH12152306**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12151240**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 092  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30- JUN- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12151240**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K307408		6.37	50.0	0.19	5.52	4890	280	0.65	0.29	3.51	1.10	64.1	19.4	48	11.20	48.3
K307409		13.05	5.93	0.09	4.14	1250	170	0.45	0.18	22.4	0.22	42.5	13.3	32	8.54	31.1
K307410		11.06	0.25	0.04	4.23	1000	200	0.49	0.17	22.7	0.08	43.9	12.5	33	10.40	27.4
K307411		3.31	1.11	0.12	5.37	1340	220	0.68	0.25	15.65	0.11	56.0	18.4	43	12.60	42.7
K307412		8.96	0.11	0.02	3.67	453	150	0.48	0.16	24.6	0.05	40.0	12.8	29	9.73	26.2
K307413		8.14	0.16	0.02	1.88	153	100	0.33	0.08	30.2	0.08	22.6	6.3	16	4.92	16.6
K307414		12.58	0.01	0.06	5.89	83	210	1.28	0.21	14.35	0.05	62.1	9.5	46	17.30	21.8
K307415		9.81	0.01	0.05	6.75	358	280	1.49	0.26	6.76	0.23	73.4	12.5	49	19.15	29.2
K307416		4.84	0.21	0.10	6.56	1540	260	1.12	0.26	8.15	0.24	69.2	20.6	57	14.15	52.7
K307417		12.39	0.81	0.07	6.90	1855	350	1.17	0.25	4.82	0.26	59.5	22.1	58	14.55	82.7
K307418		14.30	0.82	0.09	6.53	5540	240	1.05	0.21	4.40	0.55	46.9	29.6	65	12.80	133.5
K307419		11.86	0.11	0.09	6.63	433	150	1.49	0.22	5.63	0.31	50.5	28.0	63	18.10	135.0
K307420		12.82	0.17	0.05	7.63	430	230	1.98	0.25	5.11	0.14	85.3	16.2	57	23.7	51.1
K307421		0.25	4.20	0.67	2.91	486	740	0.55	0.46	9.99	0.52	39.6	4.8	42	2.39	32.4
K307422		12.26	2.29	0.08	8.52	1360	310	2.47	0.34	2.88	0.19	80.6	16.1	64	27.2	40.0
K307423		7.77	0.20	0.11	1.48	>10000	120	0.29	0.07	30.9	0.10	24.9	4.7	16	3.95	14.0
K307424		3.57	0.14	0.12	1.18	>10000	110	0.29	0.05	30.8	0.06	18.65	3.8	13	3.12	12.1
K307425		7.76	0.03	0.05	2.00	735	140	0.40	0.09	28.4	0.19	27.4	6.1	20	5.04	18.7
K307426		7.79	0.55	0.27	2.88	4920	230	0.44	0.11	22.9	0.21	36.2	9.7	33	6.49	27.8
K307427		5.57	1.92	0.45	0.97	>10000	90	0.18	0.05	26.5	0.15	16.15	3.3	11	1.89	10.5
K307428		3.20	23.9	4.18	1.88	>10000	110	0.34	0.11	0.64	7.58	35.3	6.0	27	2.95	25.8
K306931		8.88	0.09	0.05	0.64	1640	60	0.34	0.02	19.25	0.18	8.96	1.9	6	1.42	7.8
K306932		7.90	0.41	0.07	1.11	8870	90	0.42	0.04	18.25	0.10	14.25	2.1	10	2.30	9.3
K306933		6.74	0.36	0.07	0.70	3710	40	0.32	0.03	19.00	0.03	10.50	2.0	7	1.18	6.2
K306934		0.26	16.25	1.04	2.02	1290	180	0.36	0.56	14.90	0.62	34.1	3.7	37	2.42	63.2
K306935		11.87	0.13	0.08	1.73	1100	260	0.64	0.04	17.00	0.03	20.1	3.2	16	5.02	11.3
K306936		<0.02	0.11	0.09	1.78	1160	310	0.59	0.04	16.70	0.02	21.0	3.2	15	5.22	11.5
K306937		12.04	0.16	0.14	0.68	4600	420	0.28	0.02	18.30	0.05	10.40	3.1	9	1.70	10.0
K306938		12.07	0.05	0.12	1.24	2020	120	0.50	0.04	18.15	0.03	16.90	2.8	12	4.07	11.8
K306939		5.70	0.26	0.06	2.73	191	170	0.70	0.08	14.10	0.03	31.0	3.5	24	8.19	18.5
K306940		12.02	1.35	0.07	1.01	>10000	50	0.35	0.03	18.05	0.09	13.55	2.0	11	2.20	6.9
K306941		12.18	1.99	0.09	1.41	5950	80	0.44	0.04	16.90	0.07	20.5	2.1	17	3.50	9.4
K306942		6.93	<0.01	0.01	0.07	20	20	0.12	0.01	20.2	0.07	1.30	1.1	2	0.19	1.8
K306943		11.08	8.21	0.11	3.74	6560	140	0.99	0.13	10.60	17.00	38.2	5.7	37	12.65	31.5
K306944		7.09	11.05	0.07	1.61	>10000	60	0.40	0.05	15.35	0.20	22.9	2.4	18	3.95	9.0
K306945		6.95	0.02	<0.01	0.08	33	20	0.10	0.02	20.4	0.09	1.44	1.1	2	0.36	1.9

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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To: ATAC RESOURCES LTD.  
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 Finalized Date: 21- JUL- 2012  
 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12151240**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K307408		4.84	14.85	0.20	2.6	84.7	0.045	2.56	35.3	12.4	0.37	609	1.01	0.02	7.6	28.1
K307409		2.52	9.98	0.13	1.8	17.8	0.037	1.92	24.0	4.8	0.63	1090	0.73	0.02	5.5	17.4
K307410		2.68	9.62	0.13	1.9	12.8	0.038	1.97	23.8	5.5	0.76	1040	0.53	0.02	5.9	17.1
K307411		3.23	13.70	0.16	2.6	14.6	0.056	2.51	32.3	7.2	1.16	1800	1.22	0.03	7.8	24.8
K307412		2.24	8.91	0.13	1.7	7.1	0.034	1.68	23.3	5.0	0.82	879	0.72	0.02	5.2	15.9
K307413		1.25	4.54	0.08	0.9	2.09	0.019	0.88	12.6	3.2	0.70	917	0.91	0.02	2.7	8.2
K307414		2.79	13.95	0.14	2.1	2.66	0.042	2.72	32.4	7.9	2.08	645	0.72	0.04	7.5	20.3
K307415		3.80	16.35	0.19	2.5	3.21	0.052	3.13	38.4	11.8	1.75	953	0.61	0.05	9.1	26.5
K307416		4.86	16.10	0.20	2.7	5.24	0.059	2.91	35.0	12.6	3.26	1580	1.83	0.04	8.9	35.0
K307417		5.23	18.00	0.21	2.7	6.2	0.057	3.16	29.3	9.9	2.29	1530	0.72	0.03	11.6	40.4
K307418		6.50	18.30	0.24	2.5	5.28	0.087	2.91	21.9	11.0	2.06	2010	0.48	0.03	12.7	51.4
K307419		7.09	18.00	0.23	2.5	4.13	0.089	3.02	23.9	16.0	2.60	1140	0.87	0.02	12.7	48.8
K307420		4.18	20.0	0.23	3.1	3.48	0.062	3.55	42.2	10.8	2.29	1220	1.76	0.03	11.4	34.4
K307421		1.82	6.23	0.11	1.5	4.83	0.024	0.89	23.1	43.3	5.00	336	9.81	0.02	5.6	29.5
K307422		4.73	21.7	0.24	2.9	4.01	0.066	3.89	40.3	13.8	1.42	933	2.46	0.04	11.0	36.5
K307423		0.95	3.50	0.10	0.8	2.26	0.041	0.70	12.0	3.8	0.93	359	0.60	0.01	2.2	7.1
K307424		0.82	2.81	0.08	0.6	1.83	0.043	0.54	9.2	3.1	0.78	340	0.57	0.02	1.8	5.7
K307425		1.27	4.76	0.10	1.0	2.29	0.020	0.95	13.3	5.2	0.78	343	0.73	0.02	3.0	10.1
K307426		1.93	7.06	0.13	1.5	5.10	0.030	1.33	18.2	7.0	0.71	491	0.70	0.02	4.3	16.8
K307427		0.79	2.47	0.10	0.5	3.15	0.137	0.44	8.4	2.9	0.46	700	0.43	0.01	1.6	5.6
K307428		2.17	5.81	0.11	1.0	28.4	0.178	0.83	18.4	36.5	0.14	125	0.71	0.01	2.6	12.3
K306931		0.41	1.83	0.06	0.3	1.72	0.008	0.29	5.3	3.4	11.70	693	0.51	0.01	1.0	4.9
K306932		0.56	3.16	0.06	0.8	4.78	0.020	0.52	7.9	5.1	10.65	2400	0.60	0.02	1.9	4.5
K306933		0.80	1.99	0.06	0.5	6.3	0.011	0.32	6.1	2.3	11.00	1180	0.52	0.01	1.1	5.6
K306934		3.59	4.16	0.12	0.9	5.87	0.057	0.41	19.8	32.3	0.73	455	13.10	0.01	3.6	21.9
K306935		0.63	4.74	0.06	1.1	1.68	0.014	0.87	10.5	8.5	10.55	316	0.83	0.02	2.9	8.0
K306936		0.61	4.86	0.06	1.1	1.67	0.015	0.88	10.8	8.1	10.45	307	0.88	0.02	3.0	8.2
K306937		1.54	1.87	0.08	0.4	3.48	0.014	0.33	6.0	3.1	10.85	706	0.52	0.01	1.2	7.8
K306938		0.79	3.30	0.06	0.8	1.89	0.012	0.66	9.6	5.5	11.05	476	0.71	0.02	2.2	7.8
K306939		0.77	7.26	0.05	1.7	2.26	0.018	1.32	17.4	11.5	8.74	278	0.69	0.02	4.6	8.9
K306940		0.67	2.64	0.06	0.6	6.3	0.023	0.49	7.8	4.5	10.90	930	0.75	0.01	1.6	5.6
K306941		0.72	3.62	0.06	0.9	3.97	0.015	0.69	11.5	5.7	10.30	621	0.95	0.01	2.4	5.7
K306942		0.45	0.30	0.07	<0.1	<0.1	0.005	0.03	0.6	0.9	12.85	208	0.17	<0.01	0.2	2.7
K306943		1.35	11.95	0.08	2.2	21.9	0.049	1.87	21.4	15.0	6.59	1140	1.35	0.02	6.0	14.7
K306944		1.24	4.34	0.06	1.0	43.3	0.033	0.78	12.5	5.6	9.30	1970	0.82	0.01	2.6	6.2
K306945		0.46	0.33	0.06	<0.1	0.08	<0.005	0.04	0.7	1.1	13.00	212	0.13	<0.01	0.3	2.8

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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12151240**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K307408		670	17.6	115.0	0.003	5.41	275	6.6	2	2.2	687	0.54	0.22	8.7	0.294	360
K307409		360	11.0	81.2	0.002	2.75	36.7	8.8	2	1.3	607	0.37	0.11	5.8	0.214	63.0
K307410		280	10.9	82.5	0.002	2.96	15.45	8.3	2	1.3	663	0.41	0.07	5.9	0.231	55.0
K307411		190	15.3	113.0	0.003	3.14	15.15	11.3	2	1.7	416	0.55	0.12	7.9	0.287	49.4
K307412		250	10.1	73.7	0.003	2.19	4.56	7.9	2	1.2	772	0.36	0.10	5.0	0.188	21.6
K307413		180	5.9	36.2	0.003	1.07	2.31	4.1	2	0.6	1160	0.18	<0.05	2.6	0.098	7.31
K307414		560	13.3	111.0	0.003	1.92	0.54	8.4	2	1.5	407	0.55	<0.05	8.9	0.244	6.47
K307415		570	18.2	124.0	0.002	2.65	5.66	11.1	2	1.9	183.5	0.66	<0.05	10.8	0.305	6.15
K307416		560	23.2	108.0	0.005	2.98	20.1	12.4	2	1.9	201	0.64	0.08	9.7	0.316	13.20
K307417		590	16.8	117.0	0.002	4.78	14.20	18.2	2	2.0	154.0	0.76	0.15	7.4	0.545	19.45
K307418		630	12.1	113.5	0.002	6.09	20.8	26.2	3	1.9	137.5	0.80	0.24	4.4	0.673	12.75
K307419		630	13.3	128.0	0.003	6.62	3.13	23.5	3	2.1	126.0	0.79	0.24	5.0	0.653	7.79
K307420		540	15.9	145.0	0.006	3.52	5.12	14.7	2	2.5	147.0	0.82	0.06	13.0	0.373	8.36
K307421		540	9.0	43.1	0.009	1.54	86.3	4.1	2	2.5	57.7	0.36	0.24	5.6	0.154	2.42
K307422		800	19.2	145.5	0.005	4.13	14.15	14.5	2	2.9	137.0	0.84	0.08	12.8	0.353	13.65
K307423		490	4.6	27.8	0.003	1.83	49.2	3.5	3	0.5	1640	0.14	0.07	2.3	0.080	4.98
K307424		290	3.6	22.2	0.002	1.82	54.8	2.9	3	0.4	1525	0.11	0.06	1.8	0.067	4.01
K307425		470	6.0	39.0	0.004	1.23	3.60	4.3	2	0.6	1725	0.20	0.05	3.1	0.113	4.43
K307426		370	7.6	55.9	0.003	2.29	21.5	7.2	2	0.8	1575	0.29	0.06	4.0	0.200	14.55
K307427		500	3.3	18.4	0.002	5.52	292	3.2	5	0.3	1370	0.10	0.14	1.7	0.052	10.55
K307428		450	10.0	43.3	0.003	7.64	346	1.9	6	0.7	120.0	0.20	0.26	3.5	0.109	44.2
K306931		170	7.6	10.6	<0.002	0.35	1.93	1.1	1	0.3	94.0	0.07	<0.05	1.3	0.026	3.79
K306932		230	8.1	19.2	0.002	0.78	5.53	1.6	1	0.5	128.0	0.14	<0.05	2.7	0.049	11.90
K306933		160	9.5	11.5	<0.002	0.71	1.69	1.0	2	0.4	118.5	0.08	<0.05	1.6	0.030	11.95
K306934		670	23.0	26.0	0.007	2.14	162.5	3.4	3	2.1	48.7	0.24	0.41	4.0	0.111	3.68
K306935		330	10.8	30.2	<0.002	0.61	0.93	2.5	2	0.6	83.3	0.21	<0.05	4.1	0.078	10.45
K306936		340	10.8	31.1	<0.002	0.61	0.85	2.6	2	0.6	82.7	0.22	<0.05	4.3	0.079	10.05
K306937		190	18.2	11.5	<0.002	1.76	2.10	1.0	2	0.3	77.6	0.08	<0.05	1.6	0.030	12.95
K306938		270	12.1	23.1	<0.002	0.74	0.81	1.9	2	0.4	84.1	0.16	<0.05	3.1	0.057	5.07
K306939		390	8.8	47.3	<0.002	0.58	0.36	3.9	2	0.9	98.9	0.34	<0.05	6.3	0.123	2.96
K306940		220	7.1	16.6	0.002	1.05	4.37	1.5	2	0.4	74.0	0.11	<0.05	2.3	0.044	7.06
K306941		400	6.3	23.7	0.002	0.80	0.99	2.1	2	0.5	81.6	0.18	<0.05	3.5	0.064	9.31
K306942		190	1.2	1.4	<0.002	<0.01	<0.05	0.3	1	<0.2	46.7	<0.05	<0.05	<0.2	<0.005	0.05
K306943		530	14.1	69.3	0.002	2.01	1.48	5.3	3	1.4	74.8	0.47	<0.05	8.7	0.170	29.2
K306944		240	12.7	30.1	<0.002	1.81	3.44	3.2	2	0.9	80.7	0.19	<0.05	3.6	0.070	91.7
K306945		180	1.5	2.2	<0.002	0.01	<0.05	0.3	1	<0.2	48.7	<0.05	<0.05	<0.2	<0.005	0.18

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Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12151240**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
	Analyte	U	V	W	Y	Zn	Zr	As
Units		ppm	ppm	ppm	ppm	ppm	ppm	%
LOR		0.1	1	0.1	0.1	2	0.5	0.001
K307408		3.9	90	4.9	20.8	90	86.9	
K307409		2.9	62	2.8	18.0	52	61.6	
K307410		2.0	62	2.7	17.1	49	65.3	
K307411		3.2	83	4.7	21.9	67	85.1	
K307412		2.5	54	2.2	17.2	42	52.3	
K307413		2.3	28	1.3	13.0	29	32.1	
K307414		2.6	55	1.4	14.0	59	71.9	
K307415		2.7	66	5.5	16.8	120	84.7	
K307416		2.8	95	8.9	18.8	96	89.9	
K307417		2.0	154	16.6	19.0	82	92.7	
K307418		1.3	211	15.7	19.4	148	102.0	
K307419		1.4	206	7.6	20.9	94	104.0	
K307420		4.1	129	11.7	21.3	77	105.5	
K307421		5.2	94	66.1	14.2	68	51.6	
K307422		3.4	128	6.6	20.3	96	95.5	
K307423		2.8	24	0.5	17.7	12	25.6	1.935
K307424		2.0	19	0.4	13.0	6	20.1	2.25
K307425		2.6	33	0.8	16.7	27	33.7	
K307426		2.5	54	3.3	20.4	41	48.6	
K307427		2.1	16	0.9	12.2	15	17.9	9.42
K307428		4.8	39	2.4	22.2	561	31.1	12.55
K306931		22.8	10	0.8	3.9	47	10.7	
K306932		22.0	25	1.5	5.3	21	29.3	
K306933		18.2	15	1.2	4.0	10	18.0	
K306934		3.8	117	220	18.5	79	31.1	
K306935		13.8	29	2.2	7.4	8	38.1	
K306936		14.1	30	2.2	7.5	9	39.2	
K306937		14.7	15	0.9	3.9	17	13.2	
K306938		18.2	24	1.7	6.0	10	26.8	
K306939		13.4	45	2.8	10.6	9	59.3	
K306940		18.5	21	1.3	5.1	17	22.0	1.205
K306941		16.1	36	1.5	7.8	13	31.8	
K306942		0.5	2	0.2	0.9	18	<0.5	
K306943		27.7	64	3.6	12.7	7780	73.8	
K306944		22.9	32	2.0	7.4	56	35.8	1.195
K306945		0.5	2	0.1	1.0	26	<0.5	



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LIMITED  
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VANCOUVER BC V6B 1L8

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Finalized Date: 21- JUL- 2012  
Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12151240**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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To: **ATAC RESOURCES LTD.**  
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Page: 1  
 Finalized Date: 2- AUG- 2012  
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**CERTIFICATE WH12163819**

Project: Rackla Gold  
 P.O. No.: 12- 098  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 2- AUG- 2012  
 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12163819**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M668569		8.50	<0.01	0.08	5.75	82.8	170	1.34	0.22	1.59	0.03	54.0	19.4	67	24.8	44.2
M667568		11.10	<0.01	0.05	1.51	9	130	0.32	0.04	30.0	0.07	16.75	2.8	15	3.69	9.1
M667569		10.38	<0.01	0.05	2.27	80	120	0.51	0.06	25.8	0.06	21.8	5.1	21	6.34	13.1
M667570		11.19	<0.01	0.05	1.25	15	170	0.32	0.03	30.5	0.12	15.65	3.3	14	3.43	7.8
M667571		11.83	0.01	0.06	3.50	41	220	0.92	0.08	18.45	0.05	38.9	7.1	35	12.85	18.3
M667572		10.58	<0.01	0.05	1.87	14	320	0.49	0.05	25.2	0.12	20.9	4.0	19	5.83	11.8
M667573		11.18	<0.01	0.10	2.68	7	190	0.69	0.07	20.6	0.12	30.1	5.6	28	8.55	17.7
M667574		5.85	<0.01	0.05	1.49	20	710	0.38	0.04	27.2	0.09	16.30	3.5	15	3.12	8.3
M667575		10.68	0.01	0.07	2.62	87	230	0.64	0.06	22.6	0.12	28.2	5.2	25	6.17	14.6
M667576		4.89	<0.01	0.05	2.45	88	340	0.60	0.06	22.3	0.11	26.8	4.7	22	5.57	14.0
M667577		10.81	0.01	0.06	2.64	164	790	0.71	0.06	20.9	0.12	28.3	5.5	25	6.55	15.7
M667578		10.97	0.02	0.05	3.11	364	200	0.79	0.08	19.25	0.09	32.2	5.6	32	8.88	19.9
M667579		6.90	<0.01	0.03	0.06	<5	10	0.05	0.23	20.8	0.06	1.20	1.4	1	0.32	6.5
M667580		9.94	0.01	0.05	3.87	222	220	1.06	0.10	16.20	0.12	44.2	7.2	37	13.50	25.7
M667581		11.16	<0.01	0.03	3.95	94	410	1.19	0.11	11.85	0.10	45.9	7.7	40	14.70	23.4
M667582		11.58	0.01	0.06	3.61	116	490	0.92	0.09	13.50	0.10	42.3	6.5	38	10.40	19.6
M667583		0.19	0.34	0.34	6.10	574	3840	0.52	0.27	0.45	0.18	128.5	3.0	229	3.57	29.1
M667584		11.60	0.01	0.07	3.60	141	530	0.91	0.08	12.35	0.12	43.4	6.5	38	10.45	18.3
M667585		11.27	0.01	0.06	4.03	22	200	1.04	0.09	13.20	0.06	44.7	7.7	41	13.60	23.3
M667586		9.32	0.01	0.04	2.08	221	930	0.61	0.05	24.2	0.12	25.7	4.5	20	7.07	11.3
M667587		<0.02	0.01	0.05	2.16	233	910	0.63	0.06	24.8	0.11	27.0	4.7	21	7.43	12.2
M667588		11.13	0.01	0.06	3.38	232	160	0.83	0.10	17.85	0.13	37.6	6.5	32	8.58	20.3
M667589		9.79	0.01	0.05	3.87	111	150	0.94	0.11	16.75	0.07	41.7	7.7	39	9.38	24.8
M667590		8.40	<0.01	0.05	2.64	156	250	0.66	0.07	23.5	0.10	30.0	5.9	25	4.54	15.7
M667591		5.01	<0.01	0.04	1.57	27	50	0.39	0.05	28.6	0.26	18.70	3.4	16	2.08	10.9
M667592		11.61	0.01	0.08	2.42	16	90	0.64	0.07	24.8	0.21	26.8	5.3	25	2.88	14.3
M667593		11.40	0.01	0.06	2.48	13	280	0.64	0.07	23.6	0.09	29.3	5.4	24	2.25	17.3
M667594		5.92	0.01	0.41	4.30	28	120	1.11	0.12	11.10	0.39	53.3	18.7	50	3.78	31.6
M667595		0.18	0.43	0.39	6.86	655	1160	0.62	0.28	0.71	0.15	138.5	3.6	235	3.25	19.2
M667596		9.94	0.01	0.10	8.39	16.3	540	2.31	0.33	1.51	0.02	86.2	14.7	56	12.10	145.0
M667597		6.35	<0.01	0.06	8.50	4.1	1080	2.48	0.35	0.89	0.04	88.0	12.2	66	11.65	41.3
M667598		9.50	<0.01	0.15	5.49	11.8	380	1.52	0.27	8.91	0.02	76.3	8.2	51	8.00	23.5
M667599		9.57	0.03	0.09	3.51	8	170	0.85	0.17	23.2	0.04	44.3	4.8	29	5.24	13.9
M667600		10.45	<0.01	0.10	3.38	6	220	0.86	0.15	14.70	0.16	58.8	4.6	30	4.55	13.1
M667601		6.88	<0.01	0.01	0.07	<5	20	0.05	0.05	22.2	0.06	1.19	0.6	1	0.20	1.8
M667602		10.22	<0.01	0.05	2.24	12	110	0.73	0.13	23.6	0.12	25.7	3.3	19	4.97	9.8

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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12163819**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M668569		4.44	15.45	0.13	2.5	0.22	0.053	2.52	26.3	60.4	1.50	402	0.35	0.03	9.1	30.5
M667568		0.69	4.00	<0.05	0.7	0.08	0.015	0.81	9.3	21.7	1.18	107	0.71	0.02	2.5	5.4
M667569		0.96	5.93	<0.05	0.9	0.08	0.014	1.25	12.3	22.7	1.84	122	0.51	0.02	3.8	7.8
M667570		0.56	3.31	<0.05	0.4	0.10	0.010	0.64	9.2	35.2	0.96	96	0.55	0.02	2.3	4.3
M667571		1.44	9.08	0.06	1.6	0.12	0.024	1.82	20.5	61.3	2.80	162	0.67	0.14	6.0	12.6
M667572		0.80	4.73	<0.05	0.7	0.09	0.014	0.90	11.8	26.4	2.15	127	0.73	0.12	3.2	6.2
M667573		1.12	6.98	<0.05	1.2	0.12	0.018	1.32	16.5	44.9	2.91	156	0.83	0.18	4.9	10.0
M667574		0.68	3.91	<0.05	0.7	0.10	0.011	0.74	9.1	42.2	2.74	129	0.78	0.09	2.7	4.8
M667575		1.00	6.76	<0.05	1.2	0.09	0.019	1.26	15.1	67.1	2.96	152	0.61	0.05	4.6	8.9
M667576		0.94	6.18	<0.05	1.1	0.07	0.017	1.18	14.3	64.2	2.91	146	0.54	0.05	4.2	8.5
M667577		1.44	6.76	<0.05	1.0	0.10	0.020	1.23	15.1	70.3	4.02	182	0.66	0.04	4.5	10.5
M667578		1.48	7.76	<0.05	1.2	0.07	0.021	1.43	17.7	63.6	3.68	205	0.33	0.04	5.2	11.1
M667579		0.49	0.37	0.05	<0.1	<0.01	<0.005	0.03	0.6	1.1	12.20	205	0.28	<0.01	0.3	1.4
M667580		1.50	9.63	<0.05	1.7	0.05	0.027	1.94	23.7	56.5	3.03	223	0.32	0.12	6.7	14.9
M667581		1.65	10.10	<0.05	1.9	0.06	0.029	1.96	24.3	62.3	4.15	241	0.45	0.13	7.0	15.3
M667582		1.47	8.98	<0.05	1.8	0.07	0.024	1.64	22.4	61.5	5.14	263	0.82	0.13	6.4	12.8
M667583		6.47	19.15	0.22	3.9	8.7	0.044	1.25	61.5	18.0	0.12	37	6.42	0.39	9.9	15.3
M667584		1.52	8.66	<0.05	2.0	0.08	0.026	1.65	23.0	68.1	4.77	259	0.82	0.18	6.4	13.3
M667585		1.62	10.00	0.05	1.9	0.08	0.029	1.88	23.3	69.0	4.17	285	0.68	0.21	7.0	16.3
M667586		0.97	5.36	<0.05	0.9	0.13	0.015	0.91	13.6	35.9	2.07	431	0.60	0.05	3.7	7.8
M667587		1.00	5.63	<0.05	0.9	0.14	0.016	0.94	14.3	36.4	2.12	443	0.61	0.05	3.9	8.8
M667588		1.45	8.21	<0.05	1.6	0.04	0.022	1.35	20.1	46.8	3.79	427	0.45	0.17	5.9	13.8
M667589		1.64	9.67	0.05	1.6	0.04	0.027	1.49	22.3	51.9	3.45	561	0.37	0.25	6.8	16.5
M667590		1.13	6.62	<0.05	1.0	0.04	0.021	0.95	16.0	47.0	2.33	919	0.37	0.17	4.5	11.6
M667591		0.69	4.07	<0.05	0.5	0.04	0.010	0.48	10.2	28.0	1.30	1060	0.41	0.20	2.9	5.5
M667592		1.03	6.14	<0.05	0.9	0.06	0.019	0.74	14.6	27.9	2.22	1300	0.58	0.27	4.3	10.0
M667593		0.98	6.31	<0.05	0.9	0.06	0.016	0.74	15.6	24.9	1.59	2370	0.38	0.34	4.4	10.3
M667594		1.79	10.50	0.06	2.2	0.13	0.032	1.37	27.5	34.2	3.22	2520	1.85	0.52	8.1	18.2
M667595		6.69	20.3	0.23	4.3	10.7	0.061	1.45	68.5	16.8	0.13	18	4.71	0.42	9.2	15.0
M667596		3.75	21.3	0.19	3.0	0.07	0.072	3.44	49.6	52.5	2.14	592	0.73	0.22	11.6	35.6
M667597		5.26	21.5	0.23	2.9	0.07	0.076	3.64	46.5	43.7	1.76	472	0.23	0.19	11.6	37.9
M667598		2.40	12.70	0.24	2.8	0.09	0.048	2.65	37.2	29.3	0.71	305	1.99	0.03	8.5	23.0
M667599		1.89	7.49	0.16	1.5	0.09	0.034	1.75	21.6	11.0	0.49	297	0.30	0.02	4.9	13.4
M667600		2.63	7.39	0.16	1.7	0.22	0.035	1.70	28.0	11.4	2.16	454	0.33	0.03	4.7	12.2
M667601		0.51	0.20	0.15	<0.1	<0.01	0.005	0.03	0.6	1.1	13.40	224	0.12	<0.01	0.2	2.2
M667602		1.66	5.10	0.16	0.9	0.13	0.021	1.11	13.6	7.7	2.84	542	0.33	0.03	2.8	8.4

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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12163819**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M668569		330	16.0	126.5	<0.002	0.68	0.50	17.7	2	1.6	77.9	0.65	<0.05	8.0	0.418	1.00
M667568		240	5.8	35.6	<0.002	0.26	0.14	2.5	2	0.4	2710	0.19	<0.05	3.2	0.065	0.22
M667569		290	5.4	50.3	<0.002	0.08	0.15	4.2	2	0.6	1000	0.25	<0.05	4.1	0.091	0.35
M667570		210	6.0	28.2	<0.002	0.16	0.16	2.5	2	0.4	2850	0.14	<0.05	2.5	0.052	0.27
M667571		410	7.5	88.5	<0.002	0.16	0.21	6.4	2	1.0	716	0.42	<0.05	6.9	0.154	0.55
M667572		250	5.6	44.5	<0.002	0.18	0.16	3.5	2	0.5	2860	0.21	<0.05	3.6	0.078	0.35
M667573		390	7.9	65.4	<0.002	0.20	0.25	4.9	3	0.7	933	0.31	<0.05	5.3	0.119	0.47
M667574		190	6.6	36.8	<0.002	0.12	0.19	2.8	2	0.4	1590	0.18	<0.05	3.0	0.065	0.35
M667575		330	7.7	61.4	<0.002	0.11	0.24	4.7	2	0.7	948	0.31	<0.05	5.2	0.114	0.55
M667576		310	7.3	56.5	<0.002	0.10	0.20	4.3	3	0.7	947	0.29	<0.05	4.8	0.108	0.47
M667577		300	7.5	60.0	<0.002	0.15	0.25	4.7	3	0.7	798	0.30	<0.05	5.0	0.112	0.63
M667578		380	7.2	69.4	<0.002	0.05	0.31	5.4	2	0.9	572	0.36	<0.05	5.6	0.133	0.94
M667579		170	1.2	1.8	<0.002	<0.01	<0.05	0.4	1	<0.2	47.9	<0.05	<0.05	<0.2	<0.005	<0.02
M667580		440	8.1	92.7	<0.002	0.02	0.22	6.8	2	1.2	384	0.49	<0.05	7.6	0.174	1.01
M667581		450	8.4	96.3	<0.002	0.06	0.26	6.9	3	1.3	328	0.48	<0.05	7.8	0.180	0.78
M667582		400	9.4	83.5	<0.002	0.09	0.26	6.2	3	1.1	439	0.45	<0.05	7.2	0.163	0.86
M667583		860	16.4	44.7	0.003	3.00	109.5	16.5	2	2.6	504	0.73	0.12	8.0	0.538	7.76
M667584		440	10.1	87.9	<0.002	0.17	0.41	6.1	3	1.1	355	0.45	<0.05	7.2	0.166	0.87
M667585		470	11.2	99.2	<0.002	0.15	0.29	7.0	4	1.2	359	0.51	<0.05	7.8	0.183	0.80
M667586		310	7.0	47.4	<0.002	0.12	0.22	3.8	2	0.6	652	0.25	<0.05	4.1	0.089	0.61
M667587		320	7.4	49.9	<0.002	0.13	0.23	4.0	2	0.7	668	0.26	<0.05	4.2	0.093	0.66
M667588		380	7.2	66.6	<0.002	0.02	0.24	5.7	2	1.0	425	0.42	<0.05	6.6	0.150	0.54
M667589		390	8.3	72.4	<0.002	0.02	0.21	6.7	3	1.2	376	0.49	<0.05	7.4	0.171	0.43
M667590		310	7.4	46.4	<0.002	0.05	0.16	4.7	2	0.8	572	0.31	<0.05	4.9	0.110	0.29
M667591		190	7.6	23.4	<0.002	0.05	0.13	2.9	2	0.5	864	0.19	<0.05	3.0	0.067	0.16
M667592		280	9.1	34.0	<0.002	0.13	0.18	4.2	3	0.7	946	0.29	<0.05	4.8	0.106	0.22
M667593		320	7.5	33.3	<0.002	0.09	0.16	4.3	2	0.8	883	0.30	<0.05	4.7	0.106	0.22
M667594		630	44.6	57.2	0.002	0.34	0.34	7.3	3	1.4	416	0.59	<0.05	8.9	0.211	0.44
M667595		1000	16.6	51.3	<0.002	3.38	110.5	15.8	1	2.0	576	0.73	0.11	10.6	0.558	8.17
M667596		420	9.8	164.0	<0.002	0.06	0.50	15.8	1	2.3	120.0	0.88	<0.05	16.5	0.403	0.72
M667597		480	14.8	164.0	<0.002	0.03	0.62	16.8	2	2.5	125.0	0.80	0.06	15.4	0.437	0.71
M667598		710	23.4	112.5	<0.002	0.32	0.68	8.8	1	1.6	189.0	0.68	<0.05	12.0	0.295	0.55
M667599		230	15.1	65.4	<0.002	0.64	0.33	5.1	<1	1.0	540	0.36	<0.05	7.1	0.178	0.34
M667600		570	21.4	63.6	<0.002	0.53	0.36	5.1	1	0.9	206	0.39	<0.05	7.4	0.188	0.42
M667601		160	1.3	1.5	<0.002	0.01	0.06	0.3	<1	<0.2	44.6	<0.05	<0.05	<0.2	<0.005	<0.02
M667602		810	15.6	39.4	<0.002	0.45	0.19	3.8	1	0.6	431	0.19	<0.05	4.2	0.095	0.30

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12163819**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M668569		1.7	116	1.3	17.2	57	82.2
M667568		15.1	25	0.3	6.5	22	26.2
M667569		10.0	33	0.5	7.5	21	32.6
M667570		15.3	19	0.2	5.4	27	18.5
M667571		8.0	50	0.6	11.9	38	58.1
M667572		11.2	26	0.3	6.9	34	25.8
M667573		8.9	38	0.5	10.0	40	44.7
M667574		13.2	19	0.3	5.7	27	27.3
M667575		10.1	34	0.5	9.2	42	42.3
M667576		9.2	32	0.5	8.6	39	40.1
M667577		7.6	36	0.5	8.9	46	36.6
M667578		6.6	42	0.7	10.5	44	42.7
M667579		0.4	<1	0.1	0.8	17	<0.5
M667580		5.3	46	0.8	13.5	55	59.7
M667581		4.5	56	0.8	14.1	58	66.6
M667582		5.9	50	0.7	12.4	59	60.5
M667583		7.0	160	22.3	13.9	42	150.5
M667584		5.3	49	0.7	12.3	64	64.9
M667585		5.8	52	0.7	13.6	61	64.5
M667586		7.3	26	0.7	8.5	33	32.6
M667587		7.6	26	0.8	8.9	34	33.6
M667588		5.6	45	0.8	11.5	52	54.5
M667589		6.4	47	0.8	12.4	59	54.5
M667590		8.3	32	0.5	9.4	40	36.0
M667591		11.9	20	0.3	5.7	35	21.4
M667592		11.7	31	0.4	7.8	44	34.4
M667593		8.6	31	0.4	9.0	39	34.1
M667594		7.0	68	0.9	16.0	112	74.3
M667595		8.1	180	33.6	14.8	44	170.5
M667596		4.1	103	1.5	19.9	94	106.5
M667597		3.3	117	1.7	21.1	89	116.0
M667598		3.9	62	4.2	21.1	37	104.0
M667599		3.2	40	1.1	12.7	45	58.6
M667600		2.6	40	0.7	15.3	90	60.9
M667601		0.6	2	0.1	0.8	18	<0.5
M667602		3.0	28	0.4	10.4	60	31.2



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12163819**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12165402**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 104  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165402**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M667603		7.23	<0.01	0.06	6.58	15	280	1.44	0.27	13.95	0.13	72.0	9.1	47	18.45	23.4
M667604		10.16	<0.01	0.06	7.46	15.7	480	1.96	0.39	2.59	0.03	75.4	15.0	60	21.1	32.2
M667605		10.94	0.04	0.08	7.77	20.0	360	2.00	0.39	3.55	0.03	78.6	15.3	61	25.9	32.9
M667606		0.23	0.36	0.30	6.22	594	1030	0.62	0.27	0.46	0.21	146.5	3.0	231	3.42	30.7
M667607		11.38	<0.01	0.10	6.48	28.9	320	1.60	0.30	9.72	0.06	68.5	14.7	47	19.85	22.7
M667608		3.98	0.01	0.08	3.97	28	230	0.94	0.16	18.45	0.03	45.7	10.0	27	11.80	8.8
M667609		6.35	<0.01	0.02	8.47	18.5	420	2.51	0.39	0.42	<0.02	60.7	16.0	71	35.6	50.3
M667610		2.60	<0.01	0.03	8.36	17.6	440	2.46	0.37	0.39	<0.02	63.4	16.1	70	34.7	54.5
M667611		12.61	<0.01	0.02	8.71	39.2	460	2.75	0.38	0.55	<0.02	70.6	16.4	71	38.9	34.6
M667612		2.77	<0.01	<0.01	7.66	235	1780	2.32	0.27	1.94	<0.02	61.5	11.8	66	27.6	52.9
M667613		7.93	<0.01	0.03	5.44	81	2100	1.23	0.22	13.10	0.04	54.5	13.2	36	17.70	23.8
M667614		<0.02	<0.01	0.04	5.59	86	2140	1.21	0.23	12.95	0.04	56.1	12.9	37	17.40	22.0
M667615		11.44	<0.01	0.02	7.15	81.7	630	1.80	0.27	8.63	0.04	71.9	12.3	49	27.7	29.4
M667616		5.41	<0.01	0.04	5.88	126	260	1.59	0.21	13.45	0.03	57.5	10.6	38	15.40	30.2
M667617		11.97	<0.01	0.06	5.04	50	260	1.22	0.19	16.10	0.04	52.4	9.3	35	13.15	19.7
M667618		10.14	<0.01	0.07	4.90	60	210	1.41	0.18	14.70	0.03	49.1	8.7	35	15.15	21.2
M667619		11.64	<0.01	0.05	4.19	242	350	1.12	0.13	13.20	0.03	42.4	7.9	34	13.60	13.2
M667620		10.77	<0.01	0.03	7.03	30.3	320	1.83	0.28	8.71	0.04	74.5	9.0	48	32.3	30.1
M667621		0.24	0.41	0.35	6.56	632	1980	0.56	0.27	0.69	0.17	138.5	4.3	236	3.34	16.9
M667622		13.77	<0.01	0.05	2.26	17	180	0.65	0.10	21.9	0.04	26.5	5.0	16	7.47	10.5
M667623		10.47	<0.01	0.02	1.74	49	160	0.54	0.07	23.6	0.04	19.05	4.5	12	4.79	5.7
M667624		14.21	<0.01	0.01	3.78	287	310	1.12	0.16	17.00	0.04	44.4	6.2	24	11.25	24.6
M667625		6.91	<0.01	<0.01	0.04	<5	10	0.06	0.03	20.3	0.04	1.02	0.6	<1	0.14	2.4
M667626		4.04	<0.01	<0.01	7.82	43.8	310	2.38	0.35	5.10	0.06	99.1	7.9	56	31.5	17.9
M667628		10.32	<0.01	0.01	7.63	61.1	350	2.28	0.31	3.49	0.18	84.4	9.6	60	41.7	30.2
M667629		12.75	<0.01	0.02	0.59	91	290	0.30	0.03	17.75	0.11	11.05	3.1	4	1.69	7.3
M667630		11.00	0.01	0.01	1.38	184	1990	0.59	0.06	16.75	0.14	18.00	3.8	10	5.09	13.3
M667631		11.14	0.02	0.05	2.26	58	130	0.80	0.07	22.8	0.12	29.1	4.5	20	7.23	14.0
M667632		12.76	0.03	0.02	0.70	30	700	0.26	0.04	27.1	0.12	11.90	1.5	6	2.03	9.7
M667633		12.24	0.01	0.03	1.80	122	180	0.61	0.05	25.2	0.15	23.9	3.7	17	6.56	11.5
M667634		11.64	0.01	0.05	1.47	27	200	0.56	0.05	26.4	0.12	20.6	3.0	15	5.51	10.3
M667635		11.94	<0.01	0.06	3.58	43	180	1.04	0.10	17.50	0.07	36.7	6.1	30	12.90	20.3
M667636		12.11	<0.01	0.03	2.96	14	100	0.93	0.08	20.1	0.10	31.4	5.6	26	14.70	19.2
M667637		11.94	0.01	0.03	2.75	24	120	0.98	0.08	21.5	0.06	31.6	4.3	24	13.75	15.7
M667638		12.09	<0.01	0.06	2.90	43	130	1.05	0.08	22.0	0.09	36.0	5.4	28	14.00	15.8
M667639		6.92	<0.01	<0.01	0.09	5	20	0.05	0.04	19.75	0.06	1.11	0.9	1	0.45	4.8

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165402**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M667603		2.57	15.50	0.13	2.3	0.09	0.043	3.41	40.5	19.9	0.91	329	0.69	0.01	7.9	23.0
M667604		3.32	20.5	0.16	3.0	0.04	0.057	4.22	38.9	36.9	1.16	527	0.41	0.02	10.5	31.4
M667605		3.29	19.60	0.16	3.1	0.06	0.064	4.25	42.5	32.8	1.19	491	0.74	0.02	10.3	33.8
M667606		6.54	19.40	0.21	4.7	9.0	0.045	1.32	72.6	19.2	0.12	36	6.66	0.36	9.7	17.1
M667607		3.12	15.50	0.17	2.5	0.07	0.046	3.44	38.0	22.5	2.02	521	0.95	0.02	8.2	28.5
M667608		2.70	9.70	0.13	1.8	0.04	0.037	1.99	23.8	17.9	1.61	687	0.84	<0.01	5.3	16.1
M667609		3.78	23.9	0.17	4.0	0.01	0.074	4.58	28.5	55.4	1.03	202	0.49	0.04	13.0	35.7
M667610		3.61	23.6	0.17	4.0	0.01	0.069	4.50	33.2	55.3	1.01	178	0.49	0.04	12.6	35.1
M667611		4.05	24.7	0.17	4.0	0.02	0.086	4.54	36.2	67.7	1.21	173	0.32	0.04	12.8	38.0
M667612		4.64	22.6	0.16	3.9	0.01	0.074	3.95	29.4	81.6	1.06	368	0.30	0.07	12.3	35.2
M667613		3.80	13.05	0.15	2.5	0.1	0.049	2.66	30.2	55.7	2.16	600	0.95	0.07	7.5	24.6
M667614		3.90	13.05	0.14	2.5	0.03	0.046	2.74	29.2	55.3	2.19	607	0.93	0.08	7.5	23.3
M667615		3.41	17.70	0.17	3.1	0.03	0.061	3.62	39.8	53.4	1.55	443	0.50	0.03	10.0	29.8
M667616		2.83	14.15	0.12	2.8	0.03	0.046	3.03	32.2	22.6	1.61	423	0.48	0.02	7.9	22.9
M667617		2.28	12.15	0.14	2.2	<0.1	0.033	2.61	28.8	12.9	2.01	432	0.56	<0.01	6.8	19.5
M667618		2.56	11.30	0.13	2.5	0.05	0.041	2.56	26.1	12.8	3.29	558	0.92	0.01	6.5	18.7
M667619		3.40	9.90	0.15	2.2	0.06	0.034	2.19	21.2	15.4	4.35	660	0.87	0.01	5.9	17.5
M667620		2.87	17.40	0.16	3.4	0.04	0.061	3.78	42.0	26.4	1.71	333	0.40	0.02	9.9	25.4
M667621		6.34	19.85	0.23	4.5	11.3	0.049	1.40	66.0	17.8	0.13	14	5.12	0.44	9.4	14.1
M667622		1.67	5.44	0.11	1.1	0.04	0.018	1.21	13.7	6.3	4.07	441	0.38	<0.01	3.2	9.7
M667623		1.25	4.21	0.09	0.9	0.04	0.013	0.92	10.1	5.3	5.41	367	0.28	<0.01	2.4	6.9
M667624		2.04	9.37	0.14	1.7	0.32	0.035	1.93	23.6	11.4	4.34	411	0.42	0.01	5.2	15.0
M667625		0.47	0.17	0.10	<0.1	<0.01	<0.005	0.02	0.5	1.0	12.75	215	0.16	<0.01	0.2	1.5
M667626		3.13	20.4	0.20	3.4	0.29	0.067	4.08	50.0	21.2	2.62	394	0.26	0.02	11.1	26.6
M667628		2.82	18.00	0.19	3.7	0.82	0.058	4.10	44.5	32.1	2.16	295	0.40	0.02	11.0	24.6
M667629		2.13	1.55	0.09	0.5	0.52	0.005	0.30	5.4	4.3	10.00	587	0.24	<0.01	1.0	5.5
M667630		1.05	3.29	0.06	0.9	1.41	0.008	0.72	9.9	8.0	9.15	568	0.33	0.05	2.0	7.0
M667631		1.03	5.75	0.11	1.3	0.47	0.016	1.26	14.6	10.4	2.75	201	0.55	<0.01	3.4	12.0
M667632		0.98	1.67	0.09	0.3	0.54	0.005	0.38	6.3	2.9	4.25	260	0.42	<0.01	1.0	4.1
M667633		0.87	4.66	0.09	1.2	0.24	0.012	1.04	12.4	9.0	2.04	152	0.58	<0.01	2.9	10.0
M667634		0.71	3.88	0.09	0.8	0.16	0.010	0.84	11.9	7.2	1.49	135	0.48	<0.01	2.4	8.1
M667635		1.38	8.58	0.12	1.6	0.17	0.016	1.97	19.3	17.5	3.33	191	0.42	<0.01	5.0	15.4
M667636		1.30	7.11	0.12	1.3	0.13	0.016	1.66	16.8	19.1	2.56	167	0.33	<0.01	4.1	15.1
M667637		1.02	6.68	0.11	1.3	0.13	0.019	1.54	16.5	17.0	2.51	177	0.47	<0.01	3.8	10.8
M667638		1.01	7.30	0.12	1.4	0.16	0.023	1.65	18.7	20.2	1.76	136	0.94	<0.01	4.6	13.4
M667639		0.47	0.28	0.10	<0.1	<0.01	<0.005	0.05	0.5	1.7	12.40	206	0.22	<0.01	0.2	3.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165402**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M667603		400	29.5	146.0	<0.002	1.16	0.40	10.0	1	1.7	370	0.66	0.05	11.7	0.264	1.00
M667604		390	20.9	137.5	<0.002	0.99	0.46	12.6	1	2.2	163.5	0.87	0.09	12.7	0.373	1.05
M667605		390	25.7	154.5	0.002	0.93	0.61	12.8	<1	2.3	125.0	0.85	0.08	14.0	0.369	1.13
M667606		890	17.9	56.2	0.003	3.04	113.5	15.7	1	2.9	513	0.77	0.13	10.2	0.572	8.11
M667607		560	23.8	150.5	0.002	0.94	0.89	11.0	1	1.8	307	0.66	0.08	12.4	0.283	1.02
M667608		420	9.9	90.9	<0.002	0.11	0.55	7.8	1	1.2	584	0.41	0.06	7.1	0.174	0.62
M667609		510	12.0	170.0	<0.002	0.08	0.51	16.1	1	2.9	80.7	1.00	0.09	12.0	0.441	1.01
M667610		500	11.9	178.5	<0.002	0.11	0.52	16.0	1	2.9	82.0	1.01	0.09	12.7	0.432	0.98
M667611		730	12.3	178.0	<0.002	0.11	0.51	16.6	2	2.9	69.2	1.02	0.14	13.6	0.444	1.15
M667612		1330	8.0	128.0	0.004	0.05	0.30	15.2	1	2.7	89.8	1.00	0.08	11.9	0.428	1.47
M667613		610	10.6	119.5	0.002	0.54	0.55	9.8	2	1.7	328	0.60	<0.05	9.7	0.249	1.18
M667614		630	11.3	124.0	<0.002	0.56	0.53	9.6	1	1.6	328	0.60	0.06	9.9	0.256	1.12
M667615		920	9.7	165.5	<0.002	0.13	0.46	13.3	1	2.3	266	0.79	0.06	13.0	0.343	1.31
M667616		570	9.7	132.5	<0.002	0.09	0.45	10.3	1	1.8	482	0.63	0.07	10.2	0.267	1.07
M667617		620	8.8	116.0	<0.002	0.10	0.40	8.9	<1	1.6	541	0.55	0.06	8.9	0.227	0.84
M667618		660	8.1	109.5	<0.002	0.08	0.40	8.0	1	1.4	464	0.53	<0.05	8.8	0.221	0.80
M667619		560	8.0	90.9	<0.002	0.08	0.45	6.8	1	1.3	238	0.46	<0.05	8.1	0.193	0.96
M667620		1000	7.8	175.0	<0.002	0.09	0.34	13.7	2	2.1	268	0.82	<0.05	12.9	0.363	0.88
M667621		970	14.6	54.8	0.002	3.31	112.5	15.7	1	2.4	550	0.76	0.10	10.5	0.552	8.92
M667622		540	4.6	53.9	<0.002	0.08	0.34	4.2	1	0.7	450	0.26	<0.05	4.3	0.106	0.40
M667623		430	4.2	37.5	<0.002	0.05	0.26	3.0	1	0.6	303	0.20	<0.05	3.5	0.082	0.41
M667624		1010	7.1	88.8	<0.002	0.58	0.30	7.3	1	1.2	280	0.42	0.08	7.1	0.170	1.45
M667625		170	1.2	1.1	<0.002	0.01	0.09	0.2	<1	0.2	39.4	<0.05	<0.05	<0.2	<0.005	0.02
M667626		2420	8.7	180.5	0.002	1.67	0.31	16.6	1	2.3	116.5	0.90	0.13	16.6	0.392	2.60
M667628		1390	27.4	167.0	<0.002	1.78	0.55	13.7	2	2.4	77.1	0.95	<0.05	14.8	0.405	1.71
M667629		1570	12.7	10.9	0.002	2.17	0.60	1.0	<1	0.3	128.5	0.07	<0.05	1.3	0.029	1.69
M667630		930	7.7	28.8	<0.002	0.73	0.65	2.4	<1	0.5	124.5	0.18	<0.05	3.0	0.071	2.39
M667631		300	9.9	48.1	0.002	0.74	0.28	3.6	1	0.8	437	0.28	<0.05	5.3	0.100	1.18
M667632		120	7.4	13.4	<0.002	0.42	0.17	1.1	<1	0.3	484	0.08	<0.05	1.5	0.031	0.52
M667633		300	9.4	41.0	<0.002	0.63	0.29	3.0	1	0.7	594	0.24	<0.05	4.4	0.085	0.58
M667634		250	6.9	32.9	<0.002	0.40	0.24	2.5	1	0.6	576	0.19	<0.05	3.5	0.068	0.30
M667635		380	8.4	76.6	<0.002	0.77	0.35	5.4	2	1.1	289	0.40	<0.05	7.3	0.149	0.73
M667636		350	7.7	66.3	<0.002	0.77	0.29	4.5	2	0.9	345	0.33	<0.05	5.9	0.121	0.47
M667637		420	6.9	62.6	0.003	0.42	0.27	4.0	1	0.9	440	0.33	<0.05	6.1	0.114	1.10
M667638		360	9.1	72.5	<0.002	0.42	0.32	4.6	2	1.0	799	0.36	<0.05	6.4	0.125	0.48
M667639		180	1.2	3.6	<0.002	0.02	0.22	0.3	<1	0.2	43.1	<0.05	<0.05	<0.2	<0.005	0.02



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165402**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M667603		3.4	68	1.2	16.8	166	73.6
M667604		3.1	95	1.7	20.2	60	95.9
M667605		3.6	96	1.6	19.9	61	96.3
M667606		7.6	164	23.0	14.9	42	165.5
M667607		4.3	79	1.2	18.0	61	83.9
M667608		10.2	55	0.8	15.7	24	60.5
M667609		2.7	133	1.8	18.4	55	130.5
M667610		2.7	130	1.8	18.9	54	124.5
M667611		3.0	133	1.8	22.8	58	130.5
M667612		3.7	120	1.9	23.2	53	124.0
M667613		6.1	74	1.2	19.6	34	81.2
M667614		5.9	76	1.1	19.5	38	88.4
M667615		5.2	98	1.5	22.9	46	105.0
M667616		6.7	78	1.2	17.5	33	87.9
M667617		8.2	69	1.0	15.3	28	75.2
M667618		9.5	71	1.0	15.6	29	78.6
M667619		5.2	65	0.9	13.7	26	73.9
M667620		4.9	99	1.6	24.9	31	109.5
M667621		8.0	173	34.5	14.7	39	161.5
M667622		5.5	33	0.5	9.0	15	37.7
M667623		3.5	25	0.4	7.1	10	29.0
M667624		4.8	50	3.4	14.7	17	58.3
M667625		0.5	2	0.1	0.7	13	<0.5
M667626		3.7	102	2.3	33.6	30	105.5
M667628		5.8	101	2.3	24.6	41	111.0
M667629		4.4	11	0.4	6.3	23	17.7
M667630		4.1	20	1.0	7.1	35	30.9
M667631		12.4	30	1.6	8.4	47	43.2
M667632		14.3	13	0.5	3.8	23	9.5
M667633		18.6	28	1.0	7.5	38	42.1
M667634		14.9	30	0.5	6.3	32	27.3
M667635		8.4	52	1.4	9.4	23	54.6
M667636		8.7	46	0.7	8.3	28	44.3
M667637		11.4	45	0.8	8.7	17	41.5
M667638		12.2	46	0.7	9.6	30	47.5
M667639		0.5	4	0.1	0.8	14	<0.5



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**CERTIFICATE OF ANALYSIS WH12165402**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.





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**CERTIFICATE WH12165405**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 112  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12165405**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M667640		12.64	<0.01	0.04	2.47	17	270	0.88	0.06	23.0	0.08	30.6	3.9	23	13.15	16.4
M667641		11.44	<0.01	0.02	1.91	13	200	0.77	0.07	25.6	0.11	23.4	3.1	19	10.90	14.9
M667642		<0.02	<0.01	0.02	1.93	15	220	0.67	0.07	25.8	0.10	24.3	3.1	18	11.00	14.7
M667643		12.33	<0.01	0.04	2.09	39	450	0.73	0.06	21.7	0.16	28.6	3.3	22	9.72	12.8
M667644		12.37	<0.01	0.02	1.01	19	160	0.36	0.03	28.3	0.26	13.50	1.8	11	3.36	6.5
M667645		11.34	<0.01	0.02	1.39	71	110	0.50	0.05	25.5	0.28	17.30	2.6	13	4.52	8.3
M667646		11.30	0.02	0.02	2.90	28	300	0.86	0.07	19.05	0.12	27.0	4.7	25	7.27	15.3
M667647		0.19	0.43	0.39	6.17	590	1070	0.61	0.26	0.64	0.17	133.5	3.8	211	3.31	16.2
M667648		11.61	<0.01	0.03	1.76	15	1580	0.44	0.05	27.0	0.30	17.05	2.8	12	3.77	8.4
M667649		5.94	<0.01	0.03	1.72	18	540	0.71	0.05	25.3	0.16	21.9	3.3	17	5.53	11.8
M667650		6.28	<0.01	0.04	2.48	23	2360	0.93	0.07	19.45	0.14	31.0	4.6	26	7.74	16.0
M667651		8.35	<0.01	0.05	2.74	9	150	0.91	0.11	17.55	0.03	71.1	6.0	28	3.43	13.0
M667652		6.08	<0.01	0.07	4.26	7	210	1.31	0.19	10.45	0.03	80.9	7.6	39	5.55	17.3
M667653		6.88	<0.01	<0.01	0.05	<5	10	0.08	0.02	20.8	0.05	1.22	0.7	<1	0.15	2.2
M667654		9.62	<0.01	0.07	4.49	7	190	1.22	0.22	11.95	0.06	71.9	8.2	40	6.45	20.4
M667655		10.98	<0.01	0.08	4.26	11	170	1.25	0.20	12.90	0.09	65.5	7.4	36	6.36	19.5
M667656		5.34	<0.01	0.09	4.36	12	180	1.27	0.19	12.10	0.12	64.7	8.0	35	6.37	20.0
M667657		10.79	<0.01	0.10	5.70	7.4	240	1.55	0.28	7.38	0.06	86.5	9.9	48	8.53	23.9
M667658		10.90	<0.01	0.05	3.83	11	160	1.12	0.17	13.55	0.12	56.5	6.4	33	5.59	16.8
M667659		11.39	0.01	0.10	4.90	7	200	1.26	0.22	11.60	0.05	70.0	7.9	39	6.73	21.3
M667660		11.59	<0.01	0.06	2.95	8	140	0.89	0.14	20.7	0.04	50.9	4.4	23	4.32	11.7
M667661		8.73	<0.01	0.05	2.87	11	140	0.85	0.13	13.70	0.07	65.5	5.2	25	3.75	11.9
M667662		5.77	<0.01	0.05	3.12	8	200	1.02	0.13	16.65	<0.02	61.7	7.2	28	3.98	14.8
M667663		7.73	<0.01	0.07	2.67	9	120	0.87	0.12	19.05	<0.02	58.1	5.8	23	3.66	12.3
M667664		9.42	<0.01	0.07	2.47	13	120	0.82	0.11	17.80	0.03	53.3	5.4	24	3.03	11.6
M667665		9.23	<0.01	0.12	4.40	13.0	180	1.22	0.20	9.83	<0.02	81.6	8.3	43	5.34	20.1
M667666		0.19	0.42	0.39	6.19	608	710	0.66	0.26	0.65	0.17	137.5	3.9	218	3.38	16.3
M667667		10.08	<0.01	0.09	4.49	11.6	190	1.12	0.22	9.05	0.02	75.2	8.5	40	5.19	20.3
M667668		12.11	<0.01	0.11	2.10	11	190	0.53	0.11	14.65	0.03	38.9	4.5	19	2.48	10.8
M667669		10.59	<0.01	0.11	5.62	10.1	220	1.55	0.24	6.83	0.03	90.1	9.2	51	7.54	23.0
M667670		9.98	<0.01	0.15	5.67	11.3	220	1.52	0.27	8.29	0.03	85.3	9.5	47	9.28	23.7
M667671		11.91	<0.01	0.02	1.44	8	70	0.46	0.08	17.40	0.18	23.2	3.0	12	2.25	8.4
M667672		11.47	<0.01	0.08	2.93	13	130	0.87	0.14	13.60	0.07	60.6	4.9	24	4.44	12.1
M667673		9.36	<0.01	0.07	3.90	10	370	1.02	0.17	15.00	0.07	55.8	5.6	29	6.00	14.0
M667674		6.88	<0.01	<0.01	0.05	<5	10	<0.05	0.03	20.4	0.05	1.01	0.6	<1	0.20	2.5
M667675		7.81	<0.01	0.06	2.85	14	130	0.80	0.13	24.3	0.39	34.0	4.8	22	7.72	13.4



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165405**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M667640		0.91	6.64	0.11	1.5	0.09	0.018	1.50	16.4	17.4	2.72	143	0.63	<0.01	4.1	10.2
M667641		0.70	5.18	0.13	0.9	0.07	0.013	1.15	13.4	13.8	1.99	127	0.50	<0.01	3.0	7.9
M667642		0.70	5.18	0.13	0.9	0.07	0.016	1.15	13.6	13.2	2.01	127	0.52	<0.01	3.0	8.0
M667643		0.85	5.44	0.13	1.2	0.15	0.016	1.26	14.8	16.5	2.95	149	0.91	0.01	3.4	8.3
M667644		0.44	2.77	0.12	0.6	0.1	0.010	0.63	7.6	7.1	2.11	112	0.49	<0.01	1.6	4.3
M667645		0.71	3.75	0.11	0.9	0.13	0.011	0.84	9.6	10.8	3.03	139	0.58	<0.01	2.2	6.2
M667646		1.31	6.87	0.13	1.3	0.09	0.018	1.26	13.8	19.8	3.17	210	0.57	0.24	3.5	11.4
M667647		5.79	21.0	0.25	4.2	10.3	0.042	1.31	68.9	17.7	0.12	12	5.12	0.38	9.1	13.2
M667648		0.82	4.57	0.08	0.8	0.07	0.012	0.69	9.8	15.4	1.50	178	0.98	0.30	2.3	6.7
M667649		0.85	4.96	0.13	0.9	0.07	0.015	0.86	12.4	40.5	2.42	144	0.73	<0.01	2.9	8.6
M667650		1.16	6.77	0.15	1.3	0.08	0.017	1.34	15.7	49.3	3.18	179	0.95	0.07	4.0	12.1
M667651		1.86	7.49	0.17	1.8	0.04	0.026	1.35	35.5	17.7	0.54	449	0.30	<0.01	5.4	14.1
M667652		2.04	11.25	0.21	2.7	0.04	0.035	2.03	42.0	22.1	0.47	328	0.35	<0.01	8.1	18.3
M667653		0.48	0.20	0.09	<0.1	<0.01	<0.005	0.03	0.6	1.1	13.05	219	0.13	<0.01	0.1	1.7
M667654		2.57	11.80	0.21	2.6	0.06	0.036	2.16	37.9	22.5	0.59	383	0.42	<0.01	7.4	21.1
M667655		2.14	10.95	0.17	2.5	0.06	0.037	2.11	33.2	20.3	2.07	468	0.39	<0.01	7.1	18.2
M667656		2.14	11.45	0.17	3.0	0.06	0.039	2.14	34.7	22.0	2.08	462	0.42	0.01	7.2	19.5
M667657		2.49	14.35	0.17	3.2	0.07	0.054	2.74	46.5	25.7	0.71	271	0.39	0.01	9.6	24.8
M667658		2.17	9.66	0.13	2.1	0.1	0.031	1.90	29.0	17.7	3.26	573	0.32	0.01	6.3	16.1
M667659		2.52	12.40	0.18	2.8	0.08	0.046	2.42	37.2	18.8	0.94	247	0.38	0.01	8.0	19.7
M667660		1.60	7.14	0.13	1.7	0.11	0.021	1.50	27.5	12.2	0.52	163	0.26	<0.01	4.7	10.1
M667661		1.69	7.67	0.15	1.9	0.20	0.023	1.49	33.3	14.2	1.15	304	0.35	<0.01	5.1	11.6
M667662		1.62	8.33	0.14	2.3	0.07	0.032	1.60	31.2	10.0	0.44	226	0.32	<0.01	5.9	17.6
M667663		1.47	7.44	0.14	1.7	0.06	0.022	1.38	31.9	8.7	0.54	357	0.29	<0.01	4.8	13.4
M667664		1.80	6.53	0.14	1.5	0.08	0.024	1.28	26.8	7.8	0.82	397	0.33	<0.01	4.4	13.3
M667665		2.06	11.90	0.21	2.9	0.06	0.033	2.23	44.3	11.9	0.56	236	0.41	<0.01	8.2	22.1
M667666		5.97	21.7	0.26	4.5	10.2	0.045	1.35	71.5	17.7	0.12	13	5.14	0.37	9.2	13.5
M667667		2.41	11.60	0.18	2.8	0.10	0.035	2.25	37.1	11.6	1.00	301	0.43	<0.01	7.8	21.0
M667668		3.07	5.50	0.14	1.2	0.08	0.021	1.06	18.8	6.6	6.62	1020	0.34	<0.01	3.5	11.1
M667669		2.33	13.85	0.17	3.0	0.09	0.042	2.75	47.2	14.2	0.95	218	0.42	0.01	9.4	27.3
M667670		2.33	14.20	0.18	3.0	0.10	0.044	2.85	45.4	14.8	0.89	183	0.39	0.01	9.8	23.0
M667671		2.05	3.84	0.10	0.9	0.08	0.013	0.74	11.6	5.9	6.85	690	0.23	<0.01	2.5	6.4
M667672		1.61	7.41	0.16	1.9	0.17	0.020	1.49	32.1	10.2	2.36	340	0.31	<0.01	5.1	11.0
M667673		1.86	9.41	0.14	2.4	0.18	0.028	2.00	29.8	11.1	1.56	295	0.33	0.01	5.5	13.6
M667674		0.46	0.20	0.08	<0.1	0.1	<0.005	0.03	0.5	1.1	12.75	215	0.14	<0.01	0.1	1.7
M667675		1.72	6.96	0.12	1.1	0.15	0.024	1.50	17.6	6.8	1.28	403	0.63	<0.01	3.5	12.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165405**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M667640		370	10.0	53.0	<0.002	0.19	0.28	4.1	1	0.9	658	0.30	<0.05	5.7	0.112	0.41
M667641		290	7.0	41.7	<0.002	0.20	0.20	3.2	1	0.8	648	0.24	<0.05	4.6	0.088	0.29
M667642		300	6.5	41.2	<0.002	0.21	0.19	3.2	1	0.8	653	0.22	<0.05	4.3	0.088	0.29
M667643		360	8.7	44.8	0.002	0.33	0.25	3.4	2	0.7	634	0.26	<0.05	5.1	0.098	0.45
M667644		150	6.6	20.4	<0.002	0.15	0.20	1.7	<1	0.4	1805	0.12	<0.05	2.4	0.047	0.29
M667645		190	7.9	29.9	<0.002	0.18	0.31	2.3	1	0.6	1440	0.18	<0.05	3.4	0.069	0.55
M667646		350	8.6	47.6	<0.002	0.21	0.29	5.2	2	0.9	834	0.27	<0.05	5.5	0.127	0.40
M667647		880	14.7	46.0	0.002	3.03	114.5	15.6	1	2.2	507	0.70	0.12	10.0	0.531	8.67
M667648		220	6.9	28.2	0.002	0.18	0.35	3.2	1	0.6	959	0.17	<0.05	2.9	0.080	0.35
M667649		220	7.6	42.6	<0.002	0.19	0.27	3.0	2	0.8	818	0.23	<0.05	4.2	0.081	0.31
M667650		300	8.5	63.9	<0.002	0.26	0.36	4.2	2	1.0	720	0.31	<0.05	6.0	0.118	0.55
M667651		300	12.1	58.8	<0.002	0.56	0.49	5.1	1	1.0	373	0.42	<0.05	8.1	0.251	0.30
M667652		390	15.2	102.5	<0.002	0.44	0.58	7.7	1	1.4	229	0.67	0.05	10.9	0.326	0.44
M667653		170	1.3	1.2	<0.002	0.02	0.07	0.3	<1	<0.2	40.1	<0.05	<0.05	<0.2	<0.005	<0.02
M667654		230	18.9	93.5	<0.002	1.09	0.63	7.5	1	1.5	240	0.58	<0.05	10.8	0.274	0.46
M667655		1170	17.6	87.3	<0.002	1.04	0.57	7.1	1	1.4	340	0.52	<0.05	9.6	0.232	0.42
M667656		690	18.1	90.9	<0.002	1.02	0.58	7.6	1	1.4	304	0.56	0.05	9.9	0.233	0.42
M667657		220	24.0	116.0	<0.002	1.31	0.81	9.3	1	1.8	161.0	0.79	<0.05	13.6	0.347	0.57
M667658		1860	16.4	78.7	<0.002	1.04	0.51	6.3	<1	1.2	251	0.50	<0.05	8.3	0.208	0.36
M667659		540	21.4	104.5	<0.002	1.70	0.63	8.0	1	1.5	269	0.63	<0.05	11.2	0.274	0.48
M667660		280	9.9	59.8	<0.002	0.94	0.29	4.7	1	0.9	528	0.36	<0.05	6.8	0.175	0.34
M667661		320	12.8	63.5	<0.002	1.18	0.42	5.0	<1	1.0	271	0.39	<0.05	7.5	0.197	0.38
M667662		130	23.3	71.2	<0.002	0.68	0.49	5.2	<1	1.1	341	0.49	<0.05	8.4	0.226	0.38
M667663		160	22.0	58.1	<0.002	0.54	0.38	4.8	<1	1.0	317	0.37	<0.05	7.0	0.188	0.30
M667664		300	29.9	49.3	<0.002	1.17	0.43	4.4	1	0.9	308	0.34	<0.05	6.4	0.185	0.29
M667665		440	41.1	92.4	<0.002	1.44	0.68	7.8	1	1.7	193.5	0.66	<0.05	11.8	0.318	0.56
M667666		910	14.9	51.8	0.002	3.10	115.0	15.6	1	2.2	508	0.73	0.16	10.1	0.544	8.86
M667667		260	46.3	88.9	<0.002	1.76	0.73	7.7	1	1.5	187.5	0.62	<0.05	11.2	0.290	0.66
M667668		670	22.5	42.1	<0.002	1.12	0.39	3.9	1	0.7	110.5	0.26	<0.05	4.8	0.131	0.35
M667669		370	38.5	111.5	<0.002	1.63	0.74	9.0	1	1.7	113.0	0.69	<0.05	12.2	0.345	0.65
M667670		500	39.7	118.0	<0.002	1.74	0.70	9.3	1	1.7	184.5	0.70	<0.05	12.7	0.340	0.71
M667671		2010	20.8	29.3	<0.002	0.84	0.27	2.7	<1	0.5	168.0	0.18	<0.05	3.3	0.085	0.28
M667672		580	36.3	63.6	<0.002	1.35	0.39	4.7	1	1.0	197.5	0.38	<0.05	7.3	0.190	0.55
M667673		640	35.1	76.1	<0.002	1.41	0.40	6.0	1	1.2	472	0.42	<0.05	8.3	0.192	0.83
M667674		190	1.2	1.5	<0.002	0.02	0.06	0.2	<1	<0.2	39.9	<0.05	<0.05	<0.2	<0.005	<0.02
M667675		420	26.4	53.7	<0.002	1.13	0.27	4.7	1	0.8	553	0.26	<0.05	5.2	0.120	0.74

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165405**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M667640		11.7	41	0.5	9.3	31	52.1
M667641		12.1	31	0.4	7.2	35	31.2
M667642		12.0	31	0.3	7.2	34	31.4
M667643		8.9	35	0.6	8.4	44	42.5
M667644		13.2	17	0.3	4.1	40	20.3
M667645		12.9	22	0.7	5.4	39	30.5
M667646		9.5	44	0.6	8.9	46	43.9
M667647		7.8	160	31.8	13.7	37	160.5
M667648		15.1	30	0.3	6.1	41	24.2
M667649		14.0	29	0.4	6.6	43	31.6
M667650		11.0	40	0.6	8.6	47	40.7
M667651		3.0	38	0.7	15.1	33	69.4
M667652		2.9	55	1.0	18.5	39	93.2
M667653		0.6	3	0.1	0.8	13	<0.5
M667654		2.9	57	1.0	16.5	62	85.0
M667655		3.3	56	0.9	17.4	53	85.4
M667656		3.0	54	1.0	17.4	54	92.8
M667657		3.0	69	1.2	19.7	71	103.5
M667658		3.0	49	0.8	15.2	34	73.7
M667659		2.9	57	1.0	17.2	55	91.0
M667660		2.9	34	0.7	10.8	51	55.9
M667661		2.2	36	0.7	13.7	34	66.7
M667662		2.7	36	0.7	14.0	14	74.0
M667663		2.8	33	0.6	13.6	7	62.9
M667664		2.7	33	0.6	12.4	7	54.4
M667665		3.1	56	1.1	18.7	6	104.5
M667666		8.1	166	32.3	14.2	38	165.5
M667667		2.7	58	1.1	17.1	6	89.6
M667668		2.4	28	0.8	9.0	13	43.8
M667669		2.9	69	1.3	19.0	32	95.4
M667670		3.2	68	1.5	18.5	27	102.0
M667671		2.7	21	0.4	8.2	13	32.5
M667672		2.7	35	0.7	11.6	28	61.5
M667673		2.9	44	0.9	14.0	34	68.5
M667674		0.5	3	0.1	0.7	12	<0.5
M667675		3.5	33	0.5	10.5	307	40.2



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12165405**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE WH12166699**

Project: Rackla Gold- Area B  
 P.O. No.: 12- 143  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- JUL- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH1216699**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M669338		2.51	<0.01	0.14	6.18	64.0	120	1.68	0.19	5.13	0.26	44.7	28.3	62	25.5	119.0
M669339		7.35	<0.01	0.06	3.28	36	230	0.91	0.14	20.8	0.03	35.7	5.6	22	8.97	11.3
M669340		5.32	<0.01	0.07	3.31	24	110	0.66	0.12	20.1	0.04	36.4	5.7	23	11.30	12.5
M669341		2.58	<0.01	0.12	6.59	20.1	200	1.64	0.26	7.84	0.04	74.1	11.6	43	27.9	23.0
M669342		7.78	<0.01	0.18	7.29	65.3	230	2.04	0.24	5.90	1.59	73.5	16.3	51	28.2	36.7
M669343		0.21	0.40	0.47	6.43	596	790	0.71	0.23	0.66	0.18	131.5	4.5	224	3.30	13.9
M669344		8.05	0.01	0.16	7.61	217	360	2.43	0.26	3.71	0.10	78.5	18.7	54	28.6	44.6
M669345		7.76	<0.01	0.16	4.93	36.4	150	1.53	0.17	6.59	0.17	51.2	17.0	42	18.45	53.8
M669346		8.71	<0.01	0.16	6.93	171.5	310	2.24	0.23	4.63	0.16	60.8	21.9	58	21.3	66.5
M669347		8.31	<0.01	0.22	7.64	219	340	1.78	0.27	1.33	0.03	95.8	12.4	56	30.4	26.2
M669348		8.31	0.01	0.14	7.99	766	300	2.63	0.29	1.17	0.02	95.3	18.3	59	38.9	37.3
M669349		4.89	<0.01	<0.01	0.09	<5	20	0.10	0.03	20.4	0.06	1.50	1.5	<1	0.32	2.0
M669350		8.28	<0.01	0.16	8.07	61.5	530	2.89	0.28	0.94	0.04	90.8	18.2	65	40.3	40.0
M669351		5.48	<0.01	0.14	7.84	456	490	2.50	0.25	2.80	0.11	92.6	17.5	78	36.3	42.2
M669352		3.47	<0.01	0.17	7.47	15.0	420	2.52	0.24	6.13	0.15	86.3	15.1	60	29.2	34.8
M669353		1.06	<0.01	0.16	7.12	9.7	260	2.32	0.23	5.45	0.10	86.8	14.3	59	31.0	32.9
M669354		7.44	0.03	0.07	1.59	35	200	0.46	0.06	29.5	0.14	21.0	5.1	15	5.39	13.9
M669355		7.55	<0.01	0.03	0.63	28	110	0.24	0.03	32.6	0.07	9.97	2.5	6	1.90	5.9
M669356		7.72	<0.01	0.02	0.63	23	140	0.28	0.04	34.0	0.05	9.49	2.5	6	1.77	6.5
M669357		0.24	0.42	0.53	6.46	603	580	0.63	0.25	0.69	0.18	160.0	4.1	227	3.75	12.9
M669358		8.00	<0.01	0.18	4.67	39	260	1.37	0.22	15.45	0.35	54.1	15.7	49	17.35	50.1
M669359		8.15	<0.01	0.20	4.73	74	220	1.32	0.18	15.05	0.40	54.0	16.6	50	14.40	56.6
M669360		8.04	<0.01	0.20	5.02	62	240	1.51	0.20	15.65	0.37	51.9	19.6	52	13.55	62.3
M669361		7.71	<0.01	0.17	4.27	28	230	1.19	0.17	17.80	0.35	53.4	14.3	45	15.15	49.6
M669362		4.90	<0.01	0.01	0.09	<5	20	0.10	0.03	21.0	0.06	1.51	1.7	<1	0.30	5.1
M669363		8.18	<0.01	0.21	4.80	28	500	1.40	0.20	13.35	0.39	58.9	15.3	47	20.3	49.2
M669364		8.20	0.03	0.12	3.27	39	210	1.01	0.14	22.9	0.23	38.2	11.5	31	10.45	37.2
M669365		8.28	<0.01	0.10	2.35	17	140	0.74	0.10	26.2	0.21	28.6	7.5	23	7.26	26.1
M669366		4.09	<0.01	0.18	4.26	48	210	1.02	0.18	18.40	0.36	47.1	13.6	43	13.40	51.6
M669367		5.08	<0.01	0.10	2.47	47	100	0.74	0.11	23.0	0.15	28.5	7.6	24	7.32	27.7
M669368		6.74	0.01	0.26	6.85	123.5	220	2.13	0.26	4.79	0.35	69.7	24.1	71	26.3	83.7
M669369		7.70	0.19	0.27	5.77	271	180	1.57	0.25	4.82	0.37	63.5	25.5	56	21.4	77.2
M669370		<0.02	0.18	0.27	5.79	273	170	1.62	0.24	4.68	0.36	63.3	26.4	55	21.8	78.7
M669371		8.66	<0.01	0.25	5.35	72.8	200	1.41	0.28	3.86	0.34	61.7	18.1	52	29.3	55.1
M669372		5.84	<0.01	0.24	4.64	29.6	170	1.23	0.20	5.83	0.37	51.2	18.2	46	23.5	59.2
M667627		11.27	<0.01	0.08	4.33	39	210	1.42	0.15	10.85	0.14	52.9	8.6	30	21.2	8.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Finalized Date: 5- AUG- 2012  
 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12166699**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M669338		6.03	17.55	0.12	2.2	0.38	0.081	2.45	20.3	150.5	2.77	828	0.43	0.04	10.6	43.0
M669339		1.64	8.38	<0.05	1.4	0.21	0.025	1.60	18.2	5.9	2.24	294	0.19	0.02	5.3	4.5
M669340		1.89	7.91	<0.05	1.5	0.23	0.027	1.58	19.0	6.3	2.35	313	0.23	0.02	5.6	6.3
M669341		2.96	17.30	0.09	2.8	0.20	0.054	3.20	39.4	26.3	1.41	404	0.31	0.05	9.5	22.0
M669342		3.39	20.9	0.17	2.4	0.80	0.061	3.53	39.7	46.7	1.64	446	0.72	0.05	11.2	31.6
M669343		6.03	22.5	0.23	3.9	11.9	0.047	1.38	63.2	19.2	0.12	15	4.71	0.39	9.4	14.0
M669344		4.46	20.8	0.17	3.3	0.61	0.069	3.53	40.8	37.9	1.75	705	0.58	0.04	11.9	34.6
M669345		4.02	13.10	0.08	2.3	0.72	0.063	2.02	24.2	86.6	3.23	747	1.21	0.03	9.3	26.5
M669346		4.74	19.60	0.16	2.4	0.53	0.064	2.88	30.3	71.1	2.19	773	0.82	0.05	10.6	37.0
M669347		4.04	14.95	0.18	3.5	0.29	0.065	3.52	50.1	33.5	0.92	577	0.22	0.05	11.3	25.5
M669348		4.64	21.8	0.19	3.6	0.25	0.081	3.69	50.3	45.1	0.95	555	0.21	0.04	13.2	35.1
M669349		0.45	0.37	0.05	<0.1	<0.01	0.005	0.04	0.7	1.2	12.40	211	0.10	<0.01	0.4	<0.2
M669350		4.33	22.6	0.20	3.4	0.12	0.070	3.72	47.7	88.4	1.48	486	0.23	0.05	12.3	36.1
M669351		3.85	21.7	0.20	2.9	0.23	0.061	3.65	50.5	30.4	2.19	786	0.16	0.05	13.6	56.9
M669352		3.14	19.85	0.19	3.1	0.07	0.059	3.39	46.3	35.6	2.31	425	0.28	0.07	12.1	34.8
M669353		3.30	18.25	0.19	3.0	0.06	0.063	3.23	46.2	35.0	2.30	450	0.20	0.07	12.2	34.4
M669354		1.09	3.86	<0.05	0.8	0.50	0.018	0.75	10.5	4.0	0.77	394	0.67	0.01	2.6	1.6
M669355		0.46	1.65	<0.05	0.3	0.18	0.008	0.28	5.0	1.8	0.69	199	0.26	0.01	1.2	<0.2
M669356		0.41	1.58	<0.05	0.3	0.22	0.007	0.28	4.4	2.1	0.50	104	0.31	0.01	1.2	<0.2
M669357		6.12	19.40	0.20	4.8	12.2	0.046	1.39	78.7	16.4	0.12	16	4.44	0.39	8.6	12.6
M669358		3.26	11.60	0.05	2.5	1.29	0.046	2.08	26.3	15.2	1.14	389	2.82	0.03	5.9	24.8
M669359		3.34	12.70	0.07	2.2	1.38	0.054	2.13	26.6	12.4	1.29	377	3.36	0.04	7.0	29.6
M669360		3.36	13.95	0.08	2.1	1.40	0.051	2.29	25.4	10.4	1.13	375	4.02	0.04	7.3	32.1
M669361		3.08	11.00	0.06	2.0	0.90	0.046	1.95	25.7	12.4	1.24	392	3.09	0.03	6.2	24.9
M669362		0.47	0.39	0.07	<0.1	<0.01	<0.005	0.04	0.8	1.0	12.75	209	0.08	0.01	0.4	<0.2
M669363		3.27	12.40	0.05	2.4	1.06	0.056	2.27	28.7	12.6	1.39	407	2.94	0.04	7.3	24.8
M669364		2.18	8.44	<0.05	1.5	1.17	0.033	1.44	18.5	8.6	1.35	354	2.53	0.03	4.7	14.7
M669365		1.55	5.80	<0.05	1.1	0.24	0.025	1.11	13.9	6.4	1.01	253	1.48	0.02	3.7	7.5
M669366		2.94	11.15	<0.05	2.1	0.60	0.043	2.22	23.1	7.5	1.49	331	2.86	0.04	6.3	23.3
M669367		1.86	5.75	<0.05	1.3	0.57	0.026	1.09	13.6	7.2	1.34	284	1.34	0.02	3.5	9.3
M669368		4.34	19.45	0.17	2.9	3.88	0.073	3.01	33.8	20.2	1.41	370	2.77	0.04	10.5	46.5
M669369		7.34	15.75	0.19	2.6	8.55	0.083	2.59	29.9	9.8	2.64	724	2.01	0.03	10.9	69.6
M669370		7.19	16.05	0.20	2.4	9.0	0.082	2.63	30.2	10.2	2.58	706	2.03	0.03	11.3	72.1
M669371		7.20	13.60	0.16	2.6	2.83	0.087	2.46	29.3	9.2	2.26	279	1.53	0.04	10.5	53.7
M669372		9.23	12.55	0.20	2.1	1.49	0.061	2.15	24.5	8.3	3.09	686	2.35	0.04	9.3	46.0
M667627		2.97	11.10	<0.05	1.9	0.21	0.040	2.28	27.3	11.9	5.29	541	0.20	0.03	6.5	15.2

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 Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12166699**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02		
M669338		580	10.9	131.0	0.003	1.28	0.39	25.2	<1	1.7	110.0	0.82	0.17	5.4	0.594	1.85	
M669339		250	12.2	82.0	<0.002	0.84	0.34	5.7	<1	0.9	461	0.35	0.05	6.3	0.143	0.75	
M669340		300	14.2	80.8	0.002	1.10	0.32	5.1	<1	0.9	527	0.36	<0.05	5.8	0.144	0.80	
M669341		460	13.8	148.5	<0.002	0.55	0.42	12.7	<1	1.9	377	0.42	0.06	12.6	0.294	1.01	
M669342		600	86.3	176.5	<0.002	1.07	0.76	15.5	<1	2.1	255	0.68	0.07	11.7	0.346	1.27	
M669343		940	14.4	52.1	0.003	3.14	103.5	18.9	<1	2.0	547	0.70	0.13	10.1	0.526	8.11	
M669344		670	16.6	174.5	0.002	2.75	0.90	18.3	<1	2.4	129.5	0.92	0.09	12.9	0.411	2.85	
M669345		460	14.3	98.6	0.002	1.39	0.86	14.3	<1	1.8	162.0	0.65	0.10	6.4	0.358	2.03	
M669346		680	16.0	145.5	0.003	3.13	1.00	19.2	<1	2.0	157.5	0.73	0.11	10.1	0.438	3.27	
M669347		480	23.4	161.0	<0.002	3.82	0.77	11.3	<1	2.4	77.8	0.91	0.07	15.5	0.385	2.41	
M669348		560	15.4	210	<0.002	4.40	1.48	18.8	<1	2.7	99.1	1.02	0.08	15.1	0.420	2.62	
M669349		160	1.2	2.3	<0.002	0.01	<0.05	0.5	<1	<0.2	49.6	<0.05	<0.05	<0.2	<0.005	0.02	
M669350		520	19.2	200	<0.002	1.09	0.41	18.9	<1	2.5	104.5	0.94	0.06	15.3	0.414	1.35	
M669351		460	17.6	206	<0.002	1.15	0.84	15.6	<1	2.4	138.0	1.01	<0.05	16.0	0.322	1.99	
M669352		530	11.4	179.0	<0.002	0.31	0.21	15.0	<1	2.4	258	0.95	<0.05	14.7	0.337	0.98	
M669353		470	11.6	171.5	<0.002	0.20	0.20	14.2	<1	2.4	217	0.95	0.05	14.0	0.321	0.86	
M669354		570	4.6	41.8	0.003	0.91	0.42	4.0	<1	0.5	1520	0.16	0.05	2.5	0.092	1.98	
M669355		370	2.1	15.5	0.002	0.40	0.21	2.0	<1	0.2	1460	0.06	<0.05	1.1	0.033	0.73	
M669356		620	2.3	14.4	0.004	0.43	0.25	1.9	<1	0.2	1860	0.07	<0.05	1.1	0.033	0.85	
M669357		950	15.5	44.4	0.004	3.17	106.5	16.7	<1	2.1	554	0.86	0.15	11.0	0.527	8.83	
M669358		1340	15.9	94.6	0.015	2.97	0.62	13.1	1	1.3	837	0.56	0.07	7.9	0.277	4.18	
M669359		2660	13.1	117.5	0.014	2.91	0.59	13.8	2	1.5	793	0.49	0.06	6.7	0.282	4.25	
M669360		1270	14.0	124.0	0.014	3.16	0.59	13.8	1	1.6	718	0.49	0.07	7.2	0.289	4.71	
M669361		1470	13.1	105.5	0.011	2.64	0.51	12.3	1	1.3	804	0.45	0.07	6.4	0.246	3.39	
M669362		180	1.3	1.7	<0.002	0.02	<0.05	0.5	<1	<0.2	43.7	<0.05	<0.05	<0.2	<0.005	0.03	
M669363		1250	14.8	123.5	0.012	2.94	0.57	13.0	1	1.6	596	0.54	0.07	7.5	0.270	3.65	
M669364		1550	9.4	74.4	0.010	1.82	0.51	8.8	<1	1.0	977	0.32	0.06	4.8	0.173	3.34	
M669365		1530	6.8	61.9	0.008	1.26	0.29	6.0	<1	0.7	1090	0.24	0.05	3.5	0.122	2.24	
M669366		1770	14.3	125.5	0.014	2.62	0.43	10.6	1	1.3	675	0.47	0.06	6.6	0.241	5.25	
M669367		1340	7.4	55.4	0.009	1.41	0.26	7.0	<1	0.7	935	0.28	<0.05	3.9	0.137	2.49	
M669368		790	18.5	170.5	0.015	4.22	0.63	19.3	2	2.1	186.5	0.68	0.07	10.0	0.444	4.57	
M669369		470	16.4	135.0	0.012	7.75	1.98	18.5	1	2.1	167.5	0.76	0.15	7.9	0.450	17.80	
M669370		470	16.1	140.5	0.012	7.74	1.94	18.9	2	2.0	172.5	0.72	0.15	7.6	0.448	17.30	
M669371		380	18.3	121.5	0.009	7.87	0.59	15.8	<1	2.0	167.5	0.81	0.16	7.9	0.399	20.4	
M669372		320	15.4	112.5	0.014	>10.0	0.62	13.3	1	1.7	211	0.63	0.11	6.6	0.337	31.7	
M667627		1900	5.5	98.7	0.002	0.90	0.17	9.1	<1	1.4	119.5	0.50	0.06	8.0	0.209	1.47	

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**CERTIFICATE OF ANALYSIS WH12166699**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M669338		1.5	191	1.0	20.2	90	67.7
M669339		2.4	34	0.8	13.3	33	55.3
M669340		2.5	35	0.6	12.9	36	58.0
M669341		3.0	80	1.4	19.9	71	89.7
M669342		3.0	94	1.5	23.0	550	99.3
M669343		7.2	166	30.9	15.6	39	158.5
M669344		2.7	108	3.1	24.3	88	108.5
M669345		1.6	99	1.3	22.1	72	81.8
M669346		2.4	131	2.6	22.3	91	88.8
M669347		2.3	80	2.7	17.3	85	103.5
M669348		2.1	93	3.9	23.5	87	118.0
M669349		0.5	3	0.1	1.0	16	0.8
M669350		2.4	94	1.7	21.3	103	111.0
M669351		2.8	58	1.4	21.7	123	100.0
M669352		4.4	73	1.5	21.2	98	102.0
M669353		4.0	71	1.4	20.9	99	98.6
M669354		2.0	28	0.5	18.6	21	30.6
M669355		1.5	12	0.3	12.0	9	12.3
M669356		1.9	11	0.3	8.2	9	10.7
M669357		7.6	168	37.1	13.9	39	148.0
M669358		4.1	97	1.4	24.0	65	67.2
M669359		3.9	97	1.4	33.0	70	82.1
M669360		3.8	105	1.3	25.8	70	81.2
M669361		3.9	88	1.1	30.5	63	70.7
M669362		0.5	3	0.1	0.9	16	0.5
M669363		3.9	92	1.3	25.5	65	80.3
M669364		3.9	63	0.7	24.7	47	53.9
M669365		3.2	44	0.5	20.0	32	41.0
M669366		4.0	83	1.1	29.7	62	69.6
M669367		2.8	46	0.9	20.2	33	39.6
M669368		3.8	143	2.6	28.7	99	112.0
M669369		1.6	140	5.4	24.0	84	92.2
M669370		1.6	141	5.2	24.8	74	93.2
M669371		1.4	122	1.2	20.2	103	83.2
M669372		1.4	103	1.2	20.2	64	75.4
M667627		2.7	55	1.6	21.5	37	63.1



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Page: Appendix 1  
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Finalized Date: 5- AUG- 2012  
Account: RCM

Project: Rackla Gold- Area B

**CERTIFICATE OF ANALYSIS WH12166699**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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Page: 1  
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 Account: RCM

**CERTIFICATE WH12205419**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 321  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 3- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 18- SEP- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12205419**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396309		8.87	0.20	0.08	5.31	251	240	1.01	0.11	5.18	0.02	56.0	6.2	38	10.85	11.6
M396310		6.39	0.17	0.06	3.81	985	150	0.75	0.09	9.24	0.02	45.0	4.4	26	8.33	6.8
M396311		7.94	0.30	0.05	3.69	675	150	0.63	0.09	8.77	<0.02	50.9	4.3	24	7.52	6.2
M396312		7.34	0.12	0.07	4.26	428	220	0.82	0.09	6.87	0.02	52.6	5.1	29	10.10	7.0
M396313		2.87	0.02	0.10	4.10	381	160	0.62	0.10	6.14	0.27	43.2	4.5	27	6.38	7.3
M396314		3.52	0.01	33.8	5.20	424	220	0.83	0.15	0.10	0.03	60.2	6.4	39	8.64	50.5
M396315		5.00	0.03	0.27	5.16	792	150	0.79	0.14	0.63	0.03	62.4	6.0	41	8.29	10.7
M396316		4.94	<0.01	0.02	0.06	<5	20	<0.05	0.01	20.6	0.07	1.34	0.6	<1	0.14	1.8
M396317		7.85	0.01	0.10	4.25	140.5	230	0.89	0.12	7.31	0.33	57.7	5.6	33	7.77	9.7
M396318		7.35	0.01	0.08	5.08	300	310	0.94	0.16	4.04	0.02	65.8	6.1	36	9.21	10.4
M396319		7.36	0.02	0.09	5.18	183.5	250	0.91	0.14	3.39	0.03	66.2	6.4	39	9.10	10.2
M396320		6.96	0.05	0.13	4.42	366	160	0.64	0.09	4.99	0.03	50.2	4.6	28	6.62	7.4
M396321		3.06	0.04	0.09	4.42	300	200	0.59	0.07	5.18	0.02	45.6	4.3	27	6.21	6.5
M396322		6.76	0.09	0.09	4.58	716	180	0.64	0.09	4.04	0.02	53.8	4.5	29	6.84	7.3
M396323		6.79	0.02	0.10	4.12	332	150	0.61	0.07	6.85	0.02	50.7	4.0	30	6.68	7.0
M396324		7.01	0.03	0.07	3.68	401	190	0.55	0.07	7.11	0.02	40.8	3.3	25	5.60	5.3
M396325		3.81	<0.01	1.54	4.93	14	220	1.20	0.22	13.10	0.03	73.4	7.9	46	4.12	23.4
M396326		9.00	<0.01	0.14	6.85	8.7	310	1.75	0.30	5.18	0.06	95.0	10.5	63	5.13	29.5
M396327		8.18	<0.01	0.09	3.88	11	160	1.01	0.16	18.05	0.03	64.7	6.8	36	3.41	21.2
M396328		0.26	0.25	0.72	1.70	429	890	0.31	0.20	1.04	0.37	43.8	3.7	73	1.91	40.2
M396329		10.77	<0.01	0.09	3.40	6	160	0.84	0.15	22.6	0.04	48.4	5.4	28	2.88	15.1
M396330		9.07	<0.01	0.07	2.65	12	120	0.75	0.11	24.3	0.02	44.9	4.4	23	2.39	11.5
M396331		8.46	<0.01	0.06	3.36	15	140	0.84	0.13	21.2	0.04	53.1	5.7	27	3.07	15.0
M396332		6.93	<0.01	0.03	0.05	<5	20	0.05	0.02	20.8	0.08	1.24	0.6	<1	0.12	2.5
M396333		7.69	<0.01	0.06	4.69	15	190	1.22	0.19	17.00	0.02	66.5	6.7	37	4.29	19.2
M396334		9.83	<0.01	0.08	3.10	13	150	0.79	0.13	20.3	0.02	67.5	6.0	26	2.88	13.9
M396335		7.84	<0.01	0.08	3.70	16	180	0.95	0.15	12.80	0.02	78.4	6.9	38	3.57	16.6
M396336		10.18	<0.01	0.07	2.74	36	120	0.75	0.12	24.1	0.04	39.4	4.7	24	2.76	14.1
M396337		10.21	<0.01	0.06	2.95	21	140	0.84	0.12	22.9	0.04	43.3	4.6	27	3.28	14.8
M396338		10.81	<0.01	0.07	3.63	34	160	0.94	0.16	20.4	0.04	62.6	6.0	33	3.89	18.2
M396339		<0.02	<0.01	0.09	3.35	27	150	0.84	0.14	21.0	0.03	53.4	5.4	31	3.52	16.1
M396340		9.33	<0.01	0.10	2.85	23	160	0.81	0.13	24.7	0.02	44.6	4.9	26	3.69	13.3
M396341		9.63	<0.01	0.08	3.91	12	250	1.09	0.17	21.5	0.03	58.8	5.7	34	5.12	17.0
M396342		10.25	<0.01	0.05	2.81	15	120	0.83	0.12	22.8	0.02	51.4	5.0	25	3.23	12.4
M396343		0.26	0.27	0.66	1.74	461	790	0.28	0.20	1.09	0.34	39.0	3.5	74	1.84	38.2
M396344		10.88	<0.01	0.07	2.95	5	140	0.89	0.12	20.2	0.04	62.4	5.3	26	3.22	12.0



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12205419**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M396309		2.06	14.20	0.11	4.0	5.1	0.034	2.92	24.4	7.1	2.81	607	0.28	0.03	8.8	17.4
M396310		1.67	10.25	0.12	2.9	3.41	0.023	1.97	19.7	6.0	5.04	940	0.21	0.02	6.1	11.6
M396311		2.65	9.99	0.09	2.8	4.72	0.021	1.89	20.9	5.5	4.52	1360	0.21	0.02	5.9	10.9
M396312		2.26	11.70	0.11	2.9	4.30	0.023	2.28	22.0	5.8	3.82	957	0.22	0.03	7.1	12.3
M396313		1.88	10.40	0.13	3.5	4.6	0.021	1.89	19.0	11.8	3.47	549	0.30	0.02	6.3	12.0
M396314		1.93	14.45	0.13	3.4	5.6	0.029	2.12	25.2	20.8	0.26	117	0.41	0.02	8.0	18.4
M396315		1.82	13.40	0.13	3.1	6.5	0.029	2.34	27.6	15.2	0.52	158	0.26	0.02	7.7	15.6
M396316		0.45	0.21	0.06	<0.1	<0.1	0.005	0.03	0.6	1.1	12.30	202	0.14	<0.01	0.2	1.8
M396317		2.13	11.90	0.15	3.2	5.19	0.021	2.28	25.4	8.5	4.15	714	0.24	0.03	7.0	14.5
M396318		2.01	13.80	0.13	3.2	6.1	0.029	2.65	32.2	9.0	2.42	368	0.26	0.03	7.9	16.4
M396319		1.99	14.75	0.14	3.2	7.6	0.025	2.70	31.0	11.0	1.89	335	0.28	0.03	8.6	17.2
M396320		1.65	11.75	0.12	2.8	6.88	0.022	2.00	22.0	11.6	2.81	452	0.23	0.02	6.7	12.7
M396321		1.65	10.75	0.15	2.8	6.3	0.019	1.96	20.3	11.3	2.85	465	0.22	0.02	6.4	11.7
M396322		1.66	11.90	0.11	2.7	6.4	0.023	2.06	22.9	9.5	2.40	398	0.21	0.02	6.6	12.0
M396323		1.66	10.50	0.11	3.3	6.64	0.021	1.91	22.1	9.8	3.85	542	0.25	0.02	6.4	11.3
M396324		1.37	9.06	0.12	2.8	5.19	0.020	1.83	17.5	8.6	3.92	545	0.20	0.02	5.2	9.1
M396325		2.57	13.40	0.17	2.7	0.1	0.038	2.25	35.9	50.0	0.75	308	0.36	0.05	7.7	23.0
M396326		3.20	19.10	0.18	3.8	0.03	0.061	3.00	46.0	84.7	0.94	330	0.41	0.06	11.4	29.4
M396327		2.26	10.75	0.15	2.2	0.03	0.039	1.75	29.4	43.6	0.70	291	0.41	0.04	6.7	20.5
M396328		3.67	5.72	0.10	3.3	4.06	0.030	0.40	19.0	26.5	0.06	70	14.25	0.11	7.5	17.6
M396329		1.74	8.99	0.09	2.0	<0.1	0.025	1.47	21.7	39.0	0.63	235	0.28	0.04	5.5	16.0
M396330		1.48	7.16	0.08	1.6	0.01	0.024	1.18	19.1	26.6	0.59	248	0.21	0.03	4.4	12.2
M396331		1.73	8.90	0.13	1.9	0.01	0.030	1.45	23.9	35.9	0.66	219	0.21	0.04	5.4	16.5
M396332		0.45	0.19	0.07	<0.1	<0.01	0.005	0.02	0.6	1.2	12.40	196	0.14	<0.01	0.2	1.7
M396333		2.34	12.65	0.18	2.6	0.01	0.039	1.99	33.1	54.3	0.85	261	0.24	0.04	7.4	19.3
M396334		1.90	8.66	0.13	1.8	0.02	0.029	1.33	31.1	35.8	0.62	265	0.28	0.03	5.6	16.0
M396335		2.16	10.05	0.13	2.1	0.03	0.033	1.65	35.4	53.8	0.70	247	0.33	0.03	6.6	17.6
M396336		1.56	7.56	0.11	1.5	<0.1	0.027	1.24	17.8	38.3	0.44	204	0.28	0.03	4.6	14.1
M396337		1.46	8.45	0.10	1.6	0.02	0.032	1.43	19.5	34.5	0.51	224	0.23	0.03	5.2	13.6
M396338		1.83	9.95	0.12	2.0	0.04	0.031	1.74	29.3	52.1	0.51	219	0.26	0.03	6.2	16.8
M396339		1.71	8.79	0.15	1.8	<0.1	0.032	1.59	23.9	43.1	0.47	218	0.24	0.03	5.3	15.2
M396340		1.76	8.01	0.13	1.3	<0.1	0.025	1.32	20.8	32.2	0.68	258	0.32	0.03	4.4	15.0
M396341		1.86	10.45	0.14	1.7	0.04	0.031	1.72	31.0	37.9	0.58	224	0.33	0.04	5.6	15.6
M396342		1.74	7.50	0.11	1.7	<0.1	0.024	1.35	22.4	20.5	0.74	291	0.26	0.03	4.6	14.5
M396343		3.76	5.31	0.06	3.4	4.17	0.036	0.42	18.4	24.9	0.06	74	13.65	0.11	7.0	16.3
M396344		1.82	7.95	0.13	1.8	0.02	0.027	1.34	27.2	25.5	0.63	266	0.27	0.03	5.2	14.5

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12205419**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396309		240	67.2	90.2	0.003	1.76	0.21	6.6	1	1.4	75.3	0.71	<0.05	13.2	0.274	8.69
M396310		270	43.2	67.9	0.005	1.17	0.17	4.8	1	1.1	87.2	0.49	<0.05	9.0	0.182	6.36
M396311		270	36.5	62.2	0.004	1.51	0.13	5.0	1	1.1	84.2	0.46	<0.05	8.6	0.173	9.30
M396312		250	41.3	78.8	0.003	1.54	0.15	5.7	2	1.2	81.4	0.50	<0.05	9.7	0.195	7.62
M396313		190	50.1	65.5	0.005	1.55	0.17	4.9	2	1.2	125.5	0.50	<0.05	9.5	0.184	5.28
M396314		400	69.4	75.1	0.004	2.05	0.23	3.5	2	1.6	263	0.64	<0.05	14.0	0.229	6.49
M396315		380	67.9	69.3	0.005	1.97	0.21	3.7	1	1.6	249	0.60	<0.05	13.1	0.247	8.82
M396316		180	1.5	1.2	0.002	<0.01	<0.05	0.2	1	<0.2	48.2	<0.05	<0.05	<0.2	<0.005	<0.02
M396317		400	67.0	80.4	0.003	2.03	0.14	5.5	2	1.3	118.0	0.55	<0.05	11.7	0.203	7.40
M396318		460	75.2	91.6	0.003	2.00	0.17	6.7	1	1.5	94.3	0.65	<0.05	13.8	0.225	8.73
M396319		510	82.9	86.8	0.006	2.01	0.21	7.2	2	1.6	131.0	0.64	<0.05	13.2	0.253	9.99
M396320		210	58.0	65.7	0.002	1.49	0.19	5.1	1	1.2	107.0	0.50	<0.05	10.4	0.197	8.53
M396321		210	52.8	62.4	0.003	1.44	0.18	4.9	1	1.1	103.0	0.48	<0.05	9.2	0.193	7.84
M396322		200	56.6	69.5	0.003	1.62	0.20	4.9	1	1.2	107.0	0.51	<0.05	10.4	0.195	9.60
M396323		200	52.8	64.4	0.004	1.40	0.18	4.8	2	1.1	155.5	0.49	<0.05	10.0	0.186	7.45
M396324		210	44.8	55.8	0.003	1.16	0.16	4.2	1	1.0	116.0	0.41	<0.05	8.2	0.160	6.31
M396325		220	17.9	107.0	0.004	0.32	0.83	8.0	2	1.6	641	0.57	0.05	11.3	0.267	0.53
M396326		250	18.2	132.0	0.003	0.34	0.62	11.3	2	2.2	253	0.84	<0.05	15.6	0.373	0.65
M396327		570	15.0	88.4	0.003	0.81	0.49	6.9	2	1.4	891	0.49	<0.05	9.2	0.223	0.38
M396328		250	15.1	16.3	0.003	0.82	60.7	4.9	3	2.4	208	0.48	0.10	4.1	0.291	12.10
M396329		330	12.0	72.7	0.002	0.41	1.27	5.5	1	1.1	1275	0.43	0.05	7.7	0.172	0.36
M396330		580	9.4	60.2	0.004	0.35	0.29	4.4	2	0.9	1125	0.33	<0.05	6.0	0.150	0.29
M396331		180	12.9	73.8	0.003	0.41	0.42	5.3	2	1.1	1110	0.42	<0.05	7.8	0.187	0.28
M396332		180	1.3	1.2	0.003	<0.01	<0.05	0.2	1	0.2	49.3	<0.05	<0.05	<0.2	<0.005	<0.02
M396333		580	8.2	96.1	0.004	0.10	0.38	7.6	2	1.7	663	0.53	<0.05	10.5	0.252	0.41
M396334		400	13.7	70.0	0.005	0.55	0.45	5.5	1	1.1	820	0.40	<0.05	7.6	0.231	0.28
M396335		190	14.5	74.5	0.003	0.40	0.54	6.4	1	1.2	408	0.48	<0.05	9.2	0.325	0.33
M396336		340	11.0	61.4	0.004	0.64	0.35	4.9	2	0.9	1255	0.32	<0.05	6.2	0.145	0.41
M396337		320	9.7	69.9	0.003	0.37	0.34	5.2	1	1.0	1115	0.35	0.05	6.6	0.166	0.31
M396338		230	14.7	85.4	0.004	0.66	0.41	6.0	2	1.2	977	0.51	<0.05	8.4	0.220	0.47
M396339		270	13.6	76.2	0.004	0.59	0.38	5.5	1	1.1	1005	0.40	<0.05	7.4	0.194	0.42
M396340		420	13.9	62.2	0.005	0.61	0.24	4.8	2	1.0	975	0.30	<0.05	6.3	0.141	0.39
M396341		430	13.3	78.2	0.004	0.93	0.25	6.4	2	1.2	867	0.40	<0.05	8.3	0.191	0.56
M396342		720	10.3	62.5	0.003	0.99	0.34	4.8	1	0.9	912	0.34	<0.05	6.8	0.177	0.40
M396343		260	15.5	15.8	0.005	0.84	57.3	4.6	2	2.4	213	0.47	0.10	4.3	0.304	12.20
M396344		190	9.7	67.1	0.002	0.74	0.38	5.0	2	1.0	874	0.39	<0.05	7.7	0.199	0.42





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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12205419**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M396309		2.5	39	5.4	11.3	5	124.5
M396310		2.0	26	3.8	10.3	4	105.5
M396311		2.3	26	3.9	11.2	5	105.5
M396312		2.1	27	4.4	11.1	3	111.5
M396313		3.5	28	3.7	9.3	76	94.5
M396314		4.6	34	11.3	10.7	6	117.5
M396315		3.1	36	4.1	10.1	7	109.5
M396316		0.7	2	0.2	0.9	14	0.8
M396317		2.5	33	3.9	11.6	108	106.5
M396318		2.5	36	3.9	12.1	7	96.9
M396319		2.7	38	3.5	13.1	7	109.0
M396320		1.9	28	3.4	9.0	5	107.5
M396321		1.9	27	3.2	8.8	6	90.0
M396322		2.0	28	3.6	8.5	4	88.2
M396323		2.6	26	3.5	10.3	6	108.5
M396324		2.1	23	2.9	9.1	4	93.7
M396325		3.3	55	9.8	17.1	62	90.6
M396326		3.0	80	2.0	23.1	79	124.5
M396327		3.4	46	7.8	14.6	47	81.3
M396328		5.8	46	33.9	9.2	25	119.5
M396329		3.4	36	0.8	11.7	38	66.7
M396330		2.9	29	0.6	10.2	32	58.6
M396331		3.0	37	0.7	11.6	41	65.0
M396332		1.1	2	0.1	0.8	15	0.5
M396333		3.5	55	1.0	16.2	50	91.7
M396334		3.1	38	0.7	13.0	32	70.6
M396335		2.3	50	0.9	12.6	45	67.1
M396336		3.2	31	0.6	10.0	33	57.1
M396337		3.1	35	0.6	10.7	37	61.9
M396338		3.4	42	0.8	12.3	36	73.1
M396339		3.1	38	0.7	11.5	32	63.7
M396340		3.2	32	0.8	10.8	20	49.2
M396341		3.5	42	0.7	11.6	40	60.7
M396342		3.4	32	0.7	10.4	30	65.0
M396343		6.1	49	35.0	8.8	27	114.5
M396344		3.4	34	0.7	11.7	31	64.5



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12205419**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12210579**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 342  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

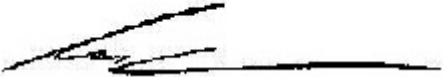
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210579**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396345		11.41	<0.01	0.06	6.09	11.1	260	1.73	0.27	4.77	0.05	109.0	10.6	56	7.50	26.7
M396346		9.18	<0.01	0.11	6.34	97.9	320	1.66	0.29	4.42	0.06	106.0	10.4	60	7.30	28.1
M396347		10.63	<0.01	0.04	4.17	16	200	1.17	0.16	16.15	0.06	65.5	6.2	36	5.39	17.8
M396348		<0.02	<0.01	0.03	4.26	20	210	1.21	0.18	16.70	0.05	68.4	6.4	36	5.56	18.6
M396349		9.99	<0.01	0.05	2.87	23	120	0.83	0.12	20.8	0.03	53.3	5.3	24	3.92	12.6
M396350		11.18	0.01	0.05	3.17	18	130	0.88	0.13	21.3	0.02	51.0	6.0	26	4.18	14.0
M398701		0.24	0.26	0.75	1.96	464	310	0.38	0.23	1.09	0.41	40.3	4.2	79	2.34	44.5
M398702		11.48	<0.01	0.04	3.44	12	140	0.94	0.15	21.4	0.03	49.7	4.8	25	4.68	14.6
M398703		12.21	<0.01	0.08	3.34	37	140	0.97	0.14	22.7	0.04	43.3	5.4	25	4.56	15.1
M398704		4.51	<0.01	0.04	4.74	17	180	1.31	0.20	17.85	0.05	57.9	6.9	36	6.93	20.3
M398705		10.87	<0.01	0.06	4.53	28	220	1.27	0.20	14.55	0.05	69.8	7.6	38	6.40	19.7
M398706		11.12	<0.01	0.05	4.31	14	170	1.19	0.18	17.20	0.03	62.9	7.2	32	5.85	18.8
M398707		11.12	<0.01	0.08	5.56	26	220	1.53	0.24	11.40	0.04	77.3	10.0	48	7.78	26.9
M398708		10.72	<0.01	0.07	4.69	24	180	1.28	0.20	15.00	0.04	66.1	8.5	38	6.07	22.6
M398709		10.47	<0.01	0.08	4.34	13	170	1.17	0.19	11.95	0.03	74.9	8.9	38	4.91	22.0
M398710		11.17	<0.01	0.09	4.42	16	170	1.19	0.19	13.15	0.04	76.5	9.0	39	4.71	24.0
M398711		6.98	<0.01	<0.01	0.06	<5	20	0.05	0.02	19.95	0.05	1.49	1.2	<1	0.20	1.3
M398712		11.59	<0.01	0.06	3.97	15	150	1.21	0.18	14.90	0.03	66.9	7.3	32	5.07	18.6
M398713		11.06	<0.01	0.07	3.89	16	150	1.09	0.17	16.70	0.04	61.1	7.1	32	5.15	17.2
M398714		11.20	<0.01	0.07	3.85	12	200	1.11	0.16	17.60	0.05	54.9	7.1	33	5.36	19.2
M398715		0.25	0.28	0.76	1.88	456	340	0.37	0.22	1.05	0.41	38.9	4.1	77	2.28	44.0
M398716		10.63	<0.01	0.06	3.82	28	160	1.09	0.17	18.80	0.04	55.5	6.9	31	5.18	19.3
M398717		11.22	<0.01	0.06	3.60	19	170	1.08	0.16	18.65	0.05	55.9	6.6	31	5.03	16.9
M398718		10.32	<0.01	0.08	5.13	18	250	1.54	0.22	11.25	0.05	77.1	9.7	45	7.54	25.5
M398719		11.61	<0.01	0.05	3.29	12	330	0.95	0.15	20.8	0.03	49.2	6.0	26	4.87	16.4
M398720		11.58	<0.01	0.03	3.32	9	140	1.02	0.15	20.3	0.04	49.5	5.6	25	4.41	14.6
M398721		6.09	<0.01	0.06	3.72	12	230	1.07	0.17	17.55	0.04	62.2	7.0	31	4.71	18.3
M398722		6.19	<0.01	0.06	5.13	11	220	1.43	0.23	11.90	0.06	71.6	8.2	44	6.81	22.4
M398723		2.71	<0.01	0.06	4.90	13	200	1.37	0.21	11.70	0.05	71.3	8.4	42	6.50	22.6
M398724		8.06	<0.01	0.06	4.70	12	180	1.33	0.21	12.25	0.05	73.4	8.6	41	6.04	22.1
M398725		7.96	<0.01	0.06	4.54	9	170	1.25	0.20	15.70	0.06	63.3	7.8	38	6.05	22.4
M398726		8.35	<0.01	0.05	3.15	9	230	0.90	0.14	21.4	0.03	43.4	5.5	24	4.16	14.8
M398727		6.97	<0.01	0.01	0.04	<5	20	0.06	0.03	20.4	0.05	1.21	1.1	<1	0.11	2.5
M398728		7.39	<0.01	0.07	4.28	14	250	1.20	0.18	16.15	0.06	62.4	7.1	36	5.45	18.8
M398729		7.51	<0.01	0.06	6.14	13.2	230	1.79	0.27	8.14	0.02	86.5	10.4	54	8.45	28.3
M398730		7.22	<0.01	0.05	3.92	9	190	1.06	0.18	17.40	0.04	53.2	6.7	32	5.15	18.3



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210579**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M396345		2.78	16.05	0.14	3.5	0.08	0.052	2.69	53.7	62.8	0.92	311	0.40	0.05	11.5	26.4
M396346		2.84	17.05	0.15	3.6	0.29	0.053	2.75	52.9	56.0	0.89	352	0.46	0.04	11.9	27.0
M396347		1.85	10.80	0.09	2.3	0.06	0.035	1.86	32.5	37.7	0.69	288	0.31	0.03	7.9	15.6
M396348		1.90	11.05	0.10	2.4	0.06	0.037	1.91	34.1	38.3	0.71	297	0.33	0.03	8.1	16.4
M396349		1.42	7.54	0.10	1.6	0.04	0.026	1.32	27.1	27.2	0.50	214	0.27	0.02	5.8	13.2
M396350		1.55	8.12	0.09	1.8	0.05	0.027	1.47	26.3	28.3	0.55	177	0.26	0.03	6.2	16.2
M398701		3.96	5.94	0.09	3.4	4.23	0.034	0.43	21.2	28.0	0.06	75	17.25	0.11	8.0	19.3
M398702		1.33	8.94	0.09	1.8	0.03	0.031	1.61	26.0	28.4	0.55	179	0.26	0.03	6.7	12.9
M398703		1.60	8.52	0.09	1.6	0.03	0.028	1.56	23.0	28.9	0.53	161	0.27	0.03	6.2	16.6
M398704		2.24	12.05	0.12	2.1	0.02	0.042	2.17	30.4	45.8	0.69	238	0.32	0.03	8.3	18.8
M398705		2.28	11.80	0.12	2.3	0.03	0.036	2.12	35.5	45.0	0.77	256	0.38	0.03	8.3	20.7
M398706		2.03	11.00	0.10	2.3	0.03	0.039	1.97	31.3	39.8	0.67	324	0.28	0.03	7.7	19.0
M398707		2.73	14.65	0.12	2.8	0.07	0.050	2.62	39.0	46.0	0.86	238	0.44	0.04	10.0	26.8
M398708		2.17	12.50	0.11	2.5	0.05	0.039	2.27	33.5	42.2	0.73	322	0.29	0.03	8.7	22.4
M398709		2.31	11.25	0.12	2.5	0.13	0.040	2.06	36.5	39.4	0.79	259	0.31	0.03	8.5	23.7
M398710		2.45	11.35	0.12	2.6	0.14	0.040	2.06	38.1	39.3	0.76	261	0.36	0.03	8.4	27.4
M398711		0.45	0.28	0.11	<0.1	<0.01	0.005	0.03	0.7	1.1	12.15	191	0.10	0.01	0.3	2.7
M398712		1.78	10.30	0.11	2.4	0.04	0.036	1.88	32.8	38.3	0.71	269	0.27	0.03	7.8	18.9
M398713		1.96	9.85	0.11	2.1	0.04	0.034	1.84	30.2	30.8	0.75	229	0.27	0.03	7.1	18.6
M398714		1.90	9.78	0.10	2.1	0.03	0.035	1.81	28.0	30.1	0.72	234	0.30	0.03	7.1	19.1
M398715		3.78	5.78	0.10	3.3	4.25	0.036	0.42	20.2	28.1	0.06	73	16.75	0.11	7.7	19.1
M398716		1.85	9.75	0.09	2.1	0.05	0.033	1.82	28.3	30.0	0.71	232	0.26	0.02	6.9	17.1
M398717		1.82	9.22	0.10	2.1	0.04	0.030	1.73	28.4	25.9	0.70	267	0.29	0.03	6.7	16.8
M398718		2.50	13.45	0.14	2.9	0.03	0.043	2.37	39.0	36.4	0.95	244	0.35	0.03	9.2	25.6
M398719		1.86	8.35	0.10	1.8	0.02	0.029	1.55	24.9	21.7	0.71	346	0.27	0.02	6.0	15.8
M398720		1.63	8.50	0.10	1.9	0.01	0.031	1.56	25.4	20.8	0.75	367	0.21	0.02	6.3	13.8
M398721		2.06	9.36	0.10	2.1	0.02	0.032	1.74	30.9	23.8	0.69	362	0.32	0.02	7.0	18.4
M398722		2.26	13.35	0.12	2.8	0.02	0.045	2.43	36.4	35.1	0.83	171	0.31	0.03	9.4	21.7
M398723		2.26	12.60	0.11	2.7	0.02	0.045	2.32	36.3	34.0	0.80	166	0.32	0.03	8.8	22.6
M398724		2.38	12.10	0.12	2.5	0.03	0.042	2.25	36.7	38.1	0.88	220	0.32	0.03	8.7	23.2
M398725		2.27	11.45	0.11	2.3	0.03	0.040	2.16	32.1	24.5	0.72	181	0.40	0.03	8.1	21.6
M398726		1.61	7.81	0.09	1.7	0.02	0.028	1.49	22.6	18.9	0.59	318	0.22	0.02	5.9	15.1
M398727		0.45	0.24	0.12	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.50	198	0.11	<0.01	0.2	2.8
M398728		2.11	10.30	0.11	2.4	0.02	0.033	2.00	31.6	28.0	0.78	284	0.27	0.03	7.6	19.1
M398729		2.63	15.75	0.13	3.3	0.02	0.054	2.90	44.3	37.7	1.14	252	0.32	0.04	10.8	28.4
M398730		2.15	9.72	0.10	2.1	0.02	0.032	1.88	27.5	23.7	1.94	446	0.27	0.03	6.8	18.4

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 Finalized Date: 21- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210579**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396345		240	20.5	130.5	<0.002	0.77	0.68	11.1	1	2.1	176.0	0.98	<0.05	15.9	0.375	0.74
M396346		250	21.7	131.0	<0.002	1.18	0.65	11.3	1	2.1	201	1.01	<0.05	16.3	0.378	1.98
M396347		230	11.5	87.8	<0.002	0.35	0.39	7.7	1	1.3	571	0.62	<0.05	10.1	0.245	0.51
M396348		220	11.8	91.0	<0.002	0.36	0.41	7.9	1	1.3	588	0.65	<0.05	10.4	0.251	0.54
M396349		260	11.4	64.0	<0.002	0.39	0.35	5.5	1	0.9	928	0.43	<0.05	7.0	0.185	0.37
M396350		300	14.1	70.3	<0.002	0.51	0.40	5.8	1	1.0	910	0.47	<0.05	7.5	0.194	0.37
M398701		270	19.9	19.4	<0.002	0.85	62.8	5.6	2	2.5	228	0.54	0.13	4.6	0.307	12.65
M398702		250	10.6	76.9	<0.002	0.26	0.37	6.3	1	1.1	802	0.50	<0.05	7.9	0.188	0.39
M398703		290	13.7	73.9	<0.002	0.46	0.42	6.0	1	1.0	938	0.47	<0.05	7.5	0.171	0.39
M398704		870	13.6	103.5	<0.002	0.38	0.44	8.7	1	1.4	616	0.62	<0.05	10.1	0.229	0.53
M398705		210	19.9	101.0	<0.002	0.55	0.50	8.3	1	1.4	507	0.65	<0.05	10.5	0.248	0.57
M398706		380	16.3	94.7	<0.002	0.73	0.48	7.7	1	1.3	626	0.61	<0.05	10.2	0.221	0.52
M398707		180	23.3	124.0	<0.002	1.46	0.61	10.2	1	1.7	553	0.77	<0.05	13.0	0.275	0.81
M398708		330	18.3	108.5	<0.002	0.95	0.57	8.7	1	1.5	434	0.66	<0.05	11.3	0.242	0.69
M398709		150	21.8	99.9	<0.002	1.22	0.65	8.0	1	1.4	326	0.69	<0.05	11.5	0.263	0.72
M398710		180	21.4	98.3	<0.002	1.40	0.67	8.2	1	1.4	370	0.69	<0.05	11.2	0.270	0.73
M398711		170	1.3	1.4	<0.002	<0.01	<0.05	0.2	1	<0.2	46.6	<0.05	<0.05	<0.2	<0.005	<0.02
M398712		210	16.4	90.6	<0.002	0.68	0.55	7.3	1	1.3	394	0.64	<0.05	10.4	0.244	0.56
M398713		250	15.6	86.8	<0.002	0.96	0.47	6.9	1	1.2	472	0.57	<0.05	9.3	0.219	0.52
M398714		390	14.9	86.6	<0.002	0.79	0.47	7.1	1	1.2	658	0.56	<0.05	9.1	0.209	0.50
M398715		260	19.0	18.7	0.002	0.81	60.1	5.5	2	2.5	216	0.49	0.11	4.2	0.295	12.40
M398716		230	14.9	86.2	<0.002	0.99	0.44	6.9	1	1.2	626	0.53	<0.05	9.1	0.199	0.51
M398717		320	13.0	83.7	<0.002	0.89	0.43	6.6	1	1.1	564	0.53	<0.05	9.1	0.200	0.47
M398718		270	19.0	115.0	<0.002	0.90	0.60	9.5	1	1.6	416	0.74	<0.05	12.6	0.270	0.56
M398719		200	13.4	73.8	<0.002	0.85	0.41	6.0	1	1.0	621	0.47	<0.05	8.0	0.177	0.39
M398720		280	10.6	75.5	<0.002	0.51	0.37	6.0	1	1.0	577	0.49	<0.05	8.3	0.181	0.34
M398721		210	15.7	83.8	<0.002	0.97	0.51	6.7	1	1.2	682	0.56	<0.05	9.2	0.222	0.41
M398722		220	17.4	117.0	<0.002	0.81	0.55	9.4	1	1.7	696	0.75	<0.05	12.1	0.272	0.53
M398723		210	18.1	111.0	<0.002	0.89	0.54	8.9	1	1.5	670	0.72	<0.05	11.7	0.257	0.51
M398724		240	18.0	106.5	<0.002	1.06	0.57	8.5	1	1.5	558	0.71	<0.05	11.5	0.274	0.51
M398725		160	17.4	103.0	<0.002	1.23	0.52	8.2	1	1.4	894	0.63	<0.05	10.3	0.227	0.55
M398726		410	12.7	71.2	<0.002	0.81	0.34	5.5	1	1.0	734	0.45	<0.05	7.5	0.166	0.34
M398727		180	1.5	1.0	<0.002	<0.01	<0.05	0.2	1	<0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02
M398728		270	16.6	92.6	<0.002	0.86	0.48	7.3	1	1.3	738	0.63	<0.05	10.2	0.235	0.42
M398729		200	21.5	133.0	<0.002	0.97	0.66	11.0	1	1.9	344	0.91	0.05	14.5	0.338	0.56
M398730		550	16.0	86.6	<0.002	0.95	0.44	7.1	1	1.2	474	0.55	<0.05	9.2	0.201	0.40

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 Finalized Date: 21- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210579**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M396345		2.9	71	1.6	22.2	59	122.0
M396346		3.1	74	2.8	22.4	53	124.5
M396347		3.3	48	1.0	18.0	45	87.1
M396348		3.4	49	1.0	18.5	46	90.0
M396349		3.2	34	0.7	13.5	29	66.2
M396350		3.5	37	0.7	13.5	25	68.4
M398701		6.0	53	37.6	11.0	29	124.5
M398702		3.3	39	0.8	14.0	36	70.5
M398703		3.5	37	1.0	13.0	31	67.4
M398704		3.7	53	1.0	18.0	61	93.1
M398705		3.3	53	1.1	18.2	49	87.2
M398706		3.3	47	1.0	17.6	42	88.1
M398707		3.7	61	1.2	21.2	54	104.0
M398708		4.0	52	1.1	19.1	53	101.5
M398709		3.4	49	1.1	19.1	30	93.4
M398710		4.0	51	1.1	20.1	33	92.1
M398711		0.5	2	0.1	0.9	14	0.7
M398712		3.3	46	1.0	17.6	34	85.5
M398713		3.2	45	0.9	16.8	35	80.6
M398714		3.2	44	0.9	15.7	46	82.5
M398715		5.8	51	36.7	10.7	27	120.5
M398716		3.2	43	0.9	15.8	41	77.6
M398717		3.2	41	0.9	15.5	44	82.0
M398718		3.5	59	1.2	21.2	61	104.0
M398719		3.1	37	0.8	14.1	36	69.7
M398720		3.0	37	0.8	14.6	43	75.6
M398721		2.9	43	0.9	16.5	42	79.4
M398722		3.4	59	1.2	20.1	64	102.0
M398723		3.3	56	1.2	18.9	61	95.7
M398724		3.2	55	1.1	19.2	52	95.0
M398725		3.3	51	1.0	17.1	62	85.3
M398726		3.0	35	1.0	12.8	34	70.6
M398727		0.7	2	0.1	0.8	14	<0.5
M398728		3.1	49	1.0	17.1	68	86.1
M398729		3.2	74	1.3	22.3	47	119.0
M398730		3.3	44	0.9	15.5	49	77.9



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210579**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**CERTIFICATE WH12212357**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 343  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

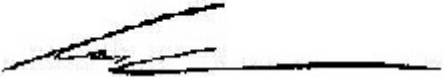
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12212357**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396749		8.06	<0.01	0.03	1.49	28.0	150	0.37	0.05	7.17	0.02	19.40	4.7	24	5.97	13.1
M396750		7.78	<0.01	0.07	3.26	35.0	330	0.87	0.10	5.28	0.10	32.3	9.3	41	16.40	28.3
M396751		8.02	<0.01	0.06	3.07	55.6	240	0.76	0.10	5.06	0.05	31.4	9.6	38	16.40	26.4
M396752		8.06	<0.01	0.05	2.15	58.1	120	0.54	0.07	7.95	0.03	24.7	6.6	26	10.00	18.4
M396753		0.26	4.33	0.75	2.81	449	860	0.61	0.43	10.35	0.63	48.0	5.5	43	2.93	37.1
M396754		7.03	0.01	0.09	3.15	585	90	0.77	0.11	1.63	0.15	33.5	10.7	37	11.80	29.5
M396755		2.78	0.40	0.05	1.74	2810	70	0.35	0.07	0.63	0.07	19.85	7.7	31	3.66	17.8
M396756		2.18	1.80	0.12	2.18	7260	90	0.46	0.11	0.10	0.15	23.1	7.7	37	4.23	31.5
M396757		<0.02	1.87	0.11	2.05	6930	80	0.42	0.10	0.09	0.14	21.5	7.3	34	4.19	27.3
M396758		0.26	16.10	1.12	1.91	1180	460	0.33	0.56	15.40	0.72	34.3	4.2	35	2.38	66.8
M396759		5.83	2.33	0.12	5.33	>10000	220	1.18	0.22	0.53	0.30	55.8	19.0	63	14.05	53.4
M396760		8.12	0.07	0.11	4.43	526	200	1.21	0.18	2.41	0.32	49.6	14.4	52	17.85	42.8
M396761		7.44	0.02	7.33	5.12	847	430	1.82	0.18	3.48	0.08	50.7	17.5	60	22.0	55.3
M396762		4.91	<0.01	0.03	0.05	<5	20	0.06	0.01	21.4	0.05	1.45	1.2	<1	0.15	1.5
M396763		8.32	<0.01	0.10	2.78	54	690	0.63	0.14	14.05	0.11	38.5	5.0	25	8.06	11.4
M396764		8.56	<0.01	0.05	3.08	15	230	0.57	0.11	12.80	0.04	37.4	4.3	19	9.51	8.1
M396765		8.70	<0.01	0.06	2.74	6	300	0.38	0.07	11.70	0.02	32.2	2.9	15	6.74	4.8
M396766		8.97	<0.01	0.07	3.51	30.1	340	0.53	0.09	9.85	0.02	40.8	3.7	21	8.43	5.9
M396767		9.22	<0.01	0.05	3.35	1500	300	0.51	0.07	9.40	<0.02	39.1	3.4	19	7.48	5.2
M396768		3.14	<0.01	0.05	3.29	2130	310	0.56	0.08	9.43	<0.02	40.7	3.7	20	7.65	5.5
M396769		4.92	<0.01	<0.01	0.05	<5	20	0.05	0.04	21.5	0.06	1.43	1.2	<1	0.14	1.5
M396770		9.17	<0.01	0.07	3.45	49	350	0.51	0.10	10.55	0.45	48.9	3.9	23	9.54	6.2
M396771		9.27	<0.01	0.08	3.40	38	350	0.60	0.10	10.05	0.10	46.3	3.9	24	8.15	6.5
M396772		8.87	<0.01	0.06	3.83	56.3	340	0.58	0.10	9.23	0.12	50.5	4.2	26	9.21	6.6
M396773		9.39	<0.01	0.06	3.91	19.4	390	0.46	0.09	8.32	0.14	50.3	4.2	26	9.57	6.3
M396774		8.92	<0.01	0.06	4.28	62.0	450	0.70	0.11	7.05	0.22	53.7	4.8	29	10.55	6.9
M396775		9.03	0.01	0.05	3.42	56.8	350	0.55	0.08	8.54	0.11	44.5	3.7	20	8.08	5.5
M396776		9.11	0.03	0.05	3.95	404	610	0.64	0.10	8.13	0.36	51.8	4.4	27	8.58	6.4
M396777		9.01	0.06	0.06	3.82	184.0	210	0.69	0.11	8.86	0.17	51.8	4.5	24	9.12	6.9
M396778		9.15	0.04	0.07	3.26	72.4	260	0.60	0.09	9.99	0.38	45.9	4.1	23	9.09	6.2
M396779		9.25	0.01	0.07	3.48	35	380	0.49	0.09	10.05	0.28	48.1	4.0	21	10.95	5.9
M396780		9.14	0.01	0.10	3.11	48	320	0.53	0.09	10.35	0.74	44.2	3.8	19	10.35	5.9
M396781		9.35	0.07	0.08	3.10	367	260	0.57	0.08	10.90	0.38	40.8	3.5	20	8.11	5.6
M396782		9.17	0.07	0.05	3.23	180.5	280	0.62	0.08	9.99	0.11	44.3	3.7	21	9.33	5.5
M396783		8.40	0.05	0.06	3.81	2050	310	0.67	0.09	8.16	0.11	47.9	4.7	27	12.15	6.6
M396784		7.90	0.03	0.05	3.97	300	370	0.74	0.09	8.00	0.04	48.3	5.0	28	12.50	7.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12212357**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
M396749		1.41	4.05	0.08	0.8	0.63	0.013	0.68	9.5	8.3	0.38	641	0.59	0.01	2.1	8.6
M396750		2.15	9.66	0.12	1.7	0.77	0.032	1.49	16.4	13.2	0.54	541	0.87	0.02	4.4	17.4
M396751		2.68	8.91	0.12	1.5	1.10	0.028	1.32	15.6	24.8	0.69	558	0.86	0.02	4.0	17.7
M396752		2.08	5.89	0.08	1.1	0.80	0.019	0.93	12.3	11.9	0.62	565	0.54	0.01	2.9	12.0
M396753		1.91	7.46	0.13	1.6	4.46	0.027	0.87	28.1	57.4	5.16	356	10.60	0.02	6.1	34.3
M396754		3.15	9.27	0.13	1.6	4.01	0.031	1.26	16.8	20.2	0.76	424	0.83	0.01	4.7	19.9
M396755		2.68	4.61	0.10	0.9	4.76	0.013	0.71	9.5	16.1	0.30	310	0.49	0.01	2.2	13.3
M396756		2.80	5.66	0.12	1.3	14.3	0.028	0.84	10.4	24.4	0.11	73	0.63	0.01	2.8	15.0
M396757		2.56	5.46	0.12	1.2	13.8	0.026	0.80	10.3	23.0	0.10	66	0.54	0.01	2.7	13.9
M396758		3.60	4.05	0.16	0.9	5.42	0.059	0.39	19.7	38.1	0.73	475	12.65	0.01	3.5	24.4
M396759		4.29	14.55	0.23	2.8	24.8	0.059	2.20	25.4	21.7	0.48	285	1.14	0.02	7.7	34.5
M396760		3.56	12.65	0.19	2.4	2.78	0.047	2.10	22.8	16.4	1.15	545	1.29	0.02	6.9	28.0
M396761		3.31	14.55	0.17	2.3	2.79	0.048	2.43	23.4	16.4	1.86	747	0.40	0.02	6.7	29.4
M396762		0.45	0.23	0.06	<0.1	0.01	<0.005	0.02	0.7	0.9	12.80	201	0.20	0.01	0.3	2.6
M396763		3.54	7.14	0.13	1.2	0.38	0.023	1.25	20.2	6.5	6.85	1470	0.27	0.02	4.3	13.4
M396764		2.54	7.21	0.12	1.9	0.26	0.021	1.54	19.0	3.8	6.88	1320	0.19	0.02	4.5	10.5
M396765		1.99	6.04	0.09	2.1	0.20	0.015	1.56	15.7	4.0	6.81	1240	0.15	0.03	4.2	6.7
M396766		1.85	8.06	0.11	2.6	0.63	0.019	1.85	20.2	6.1	5.61	910	0.17	0.03	5.4	8.7
M396767		1.60	7.06	0.09	2.4	0.96	0.019	1.79	19.3	5.4	5.31	712	0.16	0.03	4.9	8.0
M396768		1.59	7.59	0.11	2.6	0.97	0.021	1.76	19.9	5.9	5.28	716	0.16	0.03	5.1	8.4
M396769		0.45	0.22	0.07	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.80	197	0.16	0.01	0.3	2.7
M396770		2.14	8.09	0.12	2.7	0.87	0.023	2.07	23.5	5.0	5.94	1080	0.18	0.03	5.5	9.1
M396771		1.24	7.92	0.10	2.9	1.35	0.018	1.79	22.0	6.1	6.22	422	0.22	0.03	5.6	9.4
M396772		1.27	8.87	0.10	3.1	1.31	0.022	2.19	23.9	4.7	5.72	366	0.20	0.03	6.1	9.9
M396773		1.36	8.61	0.10	3.1	0.75	0.023	2.21	24.5	4.1	4.76	348	0.21	0.03	6.1	9.7
M396774		1.45	10.20	0.11	3.3	1.23	0.022	2.56	26.0	4.8	4.16	332	0.21	0.04	6.8	11.0
M396775		1.21	7.74	0.09	2.6	1.38	0.018	2.10	21.0	4.2	5.20	360	0.18	0.04	5.3	8.3
M396776		1.45	8.66	0.09	2.9	2.51	0.025	2.09	24.7	6.0	4.85	383	0.21	0.03	6.1	10.1
M396777		1.51	8.76	0.10	3.1	3.11	0.021	1.95	25.3	6.0	5.38	495	0.24	0.03	6.4	10.7
M396778		1.49	8.13	0.10	2.9	2.51	0.023	1.85	21.7	4.9	6.18	554	0.33	0.03	5.9	9.6
M396779		1.99	7.93	0.12	2.8	1.33	0.020	2.26	23.5	4.3	5.94	872	0.21	0.04	5.8	9.6
M396780		1.78	7.44	0.11	2.7	1.93	0.020	1.94	21.5	4.2	6.19	940	0.25	0.03	5.3	9.7
M396781		1.52	6.86	0.10	2.5	2.07	0.018	1.71	19.6	5.0	6.61	921	0.23	0.03	4.9	8.4
M396782		1.07	7.29	0.08	2.7	1.97	0.017	1.97	20.9	4.3	6.32	525	0.19	0.03	5.4	8.6
M396783		1.31	9.00	0.10	3.0	1.88	0.025	2.24	23.6	4.7	4.91	402	0.23	0.03	6.5	11.1
M396784		1.61	9.42	0.10	2.9	2.27	0.022	2.48	24.5	5.1	4.72	416	0.19	0.04	6.9	11.6



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12212357**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396749		200	4.6	34.8	<0.002	0.91	0.27	3.9	1	0.5	183.5	0.15	<0.05	2.3	0.089	1.38
M396750		210	8.6	71.3	<0.002	1.57	0.54	8.2	1	1.0	199.5	0.31	<0.05	4.5	0.186	2.37
M396751		230	8.7	64.5	<0.002	2.09	0.49	8.2	1	0.9	164.0	0.29	<0.05	4.1	0.171	3.14
M396752		190	7.0	49.0	<0.002	1.28	0.33	5.3	1	0.6	238	0.21	<0.05	2.9	0.127	1.99
M396753		570	9.8	55.6	0.008	1.44	95.0	4.7	3	2.7	60.3	0.39	0.26	6.2	0.156	2.68
M396754		250	14.2	62.9	<0.002	2.84	1.83	8.5	1	1.1	72.5	0.33	<0.05	4.8	0.211	7.00
M396755		200	10.6	37.0	<0.002	2.65	9.18	5.6	1	0.5	45.6	0.17	<0.05	2.5	0.100	9.22
M396756		220	12.3	38.6	0.002	2.74	20.2	3.7	2	0.8	50.5	0.23	0.07	3.3	0.134	26.2
M396757		210	11.0	37.9	0.002	2.54	19.70	3.5	2	0.8	49.6	0.23	0.07	3.2	0.126	25.5
M396758		670	21.1	28.9	0.006	1.94	162.5	3.9	3	2.1	45.4	0.26	0.37	3.9	0.114	3.74
M396759		360	21.3	102.0	0.003	4.41	35.1	13.5	3	1.7	132.0	0.61	0.10	8.6	0.346	35.5
M396760		390	18.3	95.8	0.002	3.11	3.52	13.1	2	1.6	90.4	0.53	<0.05	7.3	0.318	5.86
M396761		450	13.5	120.0	0.002	2.66	3.24	16.8	2	1.6	189.0	0.52	<0.05	7.4	0.314	6.30
M396762		280	1.3	1.2	<0.002	<0.01	<0.05	0.2	2	<0.2	47.8	<0.05	<0.05	<0.2	<0.005	0.02
M396763		1110	27.3	46.1	<0.002	2.12	0.46	4.8	1	1.0	137.0	0.38	<0.05	6.3	0.117	2.16
M396764		310	28.9	47.9	<0.002	0.97	0.18	4.0	1	1.0	125.5	0.40	<0.05	7.2	0.132	1.13
M396765		300	42.5	46.7	<0.002	0.89	0.10	2.8	1	0.7	109.0	0.38	<0.05	6.7	0.126	0.96
M396766		390	46.5	54.0	<0.002	1.14	0.12	3.7	1	0.9	99.4	0.49	<0.05	8.7	0.162	1.32
M396767		320	40.4	48.8	<0.002	1.23	0.12	3.4	2	0.8	93.5	0.44	<0.05	8.0	0.157	1.22
M396768		330	42.3	50.3	<0.002	1.26	0.14	3.7	2	0.8	95.9	0.45	<0.05	8.5	0.155	1.34
M396769		200	1.4	1.1	<0.002	<0.01	<0.05	0.2	2	<0.2	45.6	<0.05	<0.05	<0.2	<0.005	<0.02
M396770		330	55.6	61.3	<0.002	1.78	0.14	3.9	1	1.0	113.0	0.52	<0.05	9.7	0.173	1.76
M396771		370	47.4	54.5	<0.002	1.26	0.13	3.9	1	0.9	115.5	0.51	<0.05	9.4	0.169	2.25
M396772		370	40.7	63.6	<0.002	1.35	0.14	4.4	2	1.1	116.5	0.57	<0.05	9.9	0.184	2.76
M396773		340	41.0	59.5	<0.002	1.42	0.14	4.1	1	1.0	111.0	0.54	<0.05	10.0	0.186	2.57
M396774		320	43.7	76.9	<0.002	1.55	0.15	4.7	1	1.2	107.0	0.61	<0.05	10.5	0.201	3.41
M396775		300	36.6	62.1	<0.002	1.28	0.12	3.7	1	0.9	103.0	0.47	<0.05	8.2	0.155	3.34
M396776		340	43.7	64.6	<0.002	1.56	0.16	4.2	1	1.0	106.5	0.57	<0.05	10.0	0.186	4.78
M396777		330	50.8	61.5	<0.002	1.58	0.20	4.4	1	1.0	107.5	0.57	<0.05	10.1	0.188	6.02
M396778		320	49.1	61.1	<0.002	1.59	0.23	3.9	2	1.0	112.0	0.52	<0.05	8.7	0.167	5.57
M396779		370	54.7	68.6	<0.002	1.74	0.19	4.0	2	0.9	113.5	0.57	<0.05	9.3	0.172	5.71
M396780		370	45.2	62.6	<0.002	1.48	0.12	3.7	2	0.9	112.5	0.48	<0.05	8.4	0.151	5.16
M396781		370	41.5	53.8	<0.002	1.33	0.19	3.5	2	0.8	127.0	0.45	<0.05	8.1	0.145	5.66
M396782		360	32.0	62.2	<0.002	1.12	0.17	3.7	1	0.8	100.0	0.48	<0.05	8.5	0.158	4.55
M396783		330	39.8	69.5	<0.002	1.42	0.20	4.4	2	1.1	118.5	0.57	<0.05	9.3	0.188	5.13
M396784		310	53.3	75.4	<0.002	1.66	0.16	4.8	2	1.1	108.5	0.60	<0.05	9.7	0.199	6.21



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12212357**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
M396749		0.7	27	0.4	7.0	14	29.5	
M396750		1.3	63	1.0	10.1	76	54.5	
M396751		1.2	59	0.7	10.4	44	49.7	
M396752		0.8	41	0.8	8.4	31	37.3	
M396753		5.3	97	74.8	16.0	71	57.3	
M396754		1.2	63	3.6	10.7	89	56.1	
M396755		0.7	33	2.6	6.6	20	32.2	
M396756		0.9	41	4.6	8.2	46	36.7	
M396757		0.9	39	4.4	7.9	46	35.1	
M396758		3.6	114	221	17.5	79	31.7	
M396759		2.2	109	9.6	16.5	104	86.8	1.320
M396760		1.9	98	3.8	17.1	119	73.9	
M396761		1.6	106	29.2	16.4	69	73.5	
M396762		0.7	2	0.2	0.9	15	0.5	
M396763		3.4	28	0.8	13.7	49	39.1	
M396764		2.5	26	0.6	9.6	30	55.4	
M396765		2.3	18	0.5	8.4	12	61.7	
M396766		2.1	24	0.8	9.7	13	78.1	
M396767		1.7	22	0.7	8.9	6	69.3	
M396768		1.8	22	0.8	9.7	8	75.6	
M396769		0.6	2	0.1	0.9	15	0.5	
M396770		2.3	26	0.7	11.1	127	79.4	
M396771		2.4	25	1.1	11.3	49	84.4	
M396772		2.7	28	0.9	12.0	62	92.1	
M396773		2.1	27	0.7	11.4	68	91.0	
M396774		2.3	30	1.0	12.0	99	95.2	
M396775		1.9	23	1.2	10.3	59	75.9	
M396776		2.2	26	2.8	11.8	178	84.5	
M396777		2.4	27	3.7	11.7	77	88.3	
M396778		2.1	25	3.6	11.3	161	85.2	
M396779		2.4	25	1.5	11.7	96	85.2	
M396780		2.5	23	1.4	11.3	194	79.4	
M396781		2.5	22	3.4	11.0	105	77.1	
M396782		2.5	23	3.7	11.2	51	80.3	
M396783		2.4	28	3.1	11.6	53	85.7	
M396784		2.3	29	2.5	11.4	20	85.1	



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12212357**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12210691**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 348  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 7- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

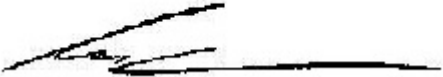
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 23- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210691**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398731		6.18	<0.01	0.07	3.70	10	600	0.76	0.18	21.5	0.06	46.9	6.6	33	4.43	20.9
M398732		<0.02	<0.01	0.08	3.80	8	540	0.84	0.18	22.5	0.06	46.8	6.7	32	4.41	18.5
M398733		7.06	<0.01	0.06	3.28	<5	140	0.86	0.15	20.5	0.03	47.7	5.6	27	3.83	14.6
M398734		6.84	<0.01	0.07	4.80	7	370	1.13	0.21	13.70	0.03	68.4	7.9	42	6.15	21.7
M398735		7.34	<0.01	0.05	4.17	<5	340	0.95	0.18	17.10	0.03	61.6	6.6	36	5.40	17.4
M398736		7.30	<0.01	0.06	4.02	<5	260	1.00	0.16	19.40	0.04	54.0	6.5	32	5.54	17.4
M398737		7.25	<0.01	0.05	3.91	12	170	0.96	0.17	18.00	0.03	58.4	6.7	33	5.93	17.2
M398738		0.26	0.27	0.68	1.89	474	390	0.30	0.21	1.11	0.39	39.3	3.7	80	1.98	39.6
M398739		7.40	<0.01	0.08	3.55	5	170	0.89	0.15	21.0	0.03	49.0	5.6	29	5.13	14.6
M398740		7.19	<0.01	0.04	5.91	22.6	650	1.60	0.27	8.06	0.09	74.8	8.7	45	25.2	22.3
M398741		3.98	<0.01	0.04	7.91	47.7	370	2.25	0.36	2.24	0.07	87.9	12.6	68	31.5	30.6
M398742		4.47	<0.01	0.06	7.91	77.2	550	2.51	0.32	2.32	0.40	90.7	12.9	64	29.0	37.3
M398743		7.08	0.07	0.04	0.55	872	610	0.29	0.03	18.85	0.42	12.80	2.5	1	1.36	8.4
M398744		7.73	0.08	0.09	0.36	1110	30	0.11	0.03	20.6	<0.02	9.41	1.6	<1	0.52	7.4
M398745		7.50	0.07	0.05	0.36	2160	40	0.13	0.04	20.7	0.02	9.83	1.0	<1	0.56	5.1
M398746		6.69	0.02	0.04	0.36	249	90	0.14	0.02	20.1	<0.02	6.44	1.3	<1	0.55	6.3
M398747		6.49	0.29	0.03	1.12	1140	50	0.40	0.06	18.15	0.09	18.95	1.6	5	2.44	6.4
M398748		4.92	<0.01	0.02	0.04	<5	20	<0.05	0.04	19.75	0.05	1.00	0.5	<1	0.13	4.7
M398749		7.68	0.50	0.03	0.67	2690	30	0.25	0.04	17.55	0.03	11.85	1.1	2	1.37	4.3
M398750		0.26	0.26	0.68	1.77	459	380	0.29	0.21	1.07	0.38	36.6	3.6	78	1.94	38.5
M398751		7.44	0.17	0.04	0.51	2390	30	0.20	0.03	19.15	0.06	10.15	0.7	2	0.97	6.2
M398752		7.98	0.04	0.03	1.31	68	90	0.48	0.05	15.25	0.04	17.95	0.8	8	3.48	3.4
M398753		7.38	0.17	0.08	1.62	7880	90	0.52	0.05	13.65	0.03	21.9	2.2	12	3.80	10.2
M398754		5.52	0.66	0.14	1.06	8610	50	0.31	0.04	17.65	0.04	13.00	2.2	7	2.83	7.8
M398755		6.43	0.50	0.09	0.78	1440	40	0.26	0.03	19.10	0.03	9.49	1.9	3	1.57	5.5
M398756		7.16	0.17	0.14	1.71	815	120	0.60	0.05	14.20	0.04	19.95	3.2	11	3.36	9.7
M398757		6.71	0.36	0.07	0.64	1550	50	0.25	0.02	19.60	0.23	9.35	1.5	1	1.28	6.1
M398758		3.37	0.37	0.06	0.60	1840	40	0.26	0.02	18.60	0.32	9.05	1.5	2	1.28	6.2
M398759		6.89	0.15	0.16	1.52	245	90	0.42	0.04	13.80	0.05	17.80	2.6	11	2.75	8.1
M398760		6.72	0.20	0.06	0.77	357	60	0.22	0.02	15.15	<0.02	11.40	0.9	4	1.34	2.1
M398761		4.91	<0.01	0.01	0.05	<5	30	0.06	0.03	20.7	0.06	1.07	1.2	<1	0.57	1.5
M398762		2.28	0.20	0.24	5.28	420	410	1.22	0.23	12.75	0.07	62.1	9.5	40	13.90	21.4
M398763		7.45	<0.01	0.28	5.81	56.2	300	1.33	0.26	9.49	0.05	68.5	9.1	52	17.25	22.9
M398764		5.69	<0.01	0.33	8.04	89.4	360	2.60	0.40	2.62	0.04	70.0	12.8	69	24.8	26.1
M398765		7.48	0.14	0.31	7.55	400	270	2.46	0.37	2.32	0.06	73.5	12.2	65	24.1	28.0
M398766		7.88	<0.01	0.32	8.44	100.5	360	2.90	0.42	2.96	0.05	73.7	13.0	73	30.3	22.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Plus Appendix Pages  
 Finalized Date: 23- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210691**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398731		2.20	9.59	0.16	1.3	0.05	0.031	1.82	25.6	21.8	0.99	285	0.33	0.02	4.9	18.5
M398732		2.30	9.45	0.15	1.4	0.03	0.029	1.82	26.1	22.3	1.01	283	0.34	0.02	4.8	18.5
M398733		1.77	8.14	0.16	1.8	0.01	0.031	1.60	24.3	15.9	0.60	176	0.16	0.02	5.3	14.7
M398734		2.15	12.75	0.18	2.6	0.02	0.045	2.40	34.6	33.5	0.84	291	0.23	0.03	7.8	21.0
M398735		2.01	10.75	0.19	2.3	0.02	0.033	2.05	31.1	43.7	0.89	233	0.16	0.03	6.9	17.9
M398736		2.05	9.94	0.18	2.1	0.02	0.035	1.97	27.0	19.0	0.73	221	0.19	0.03	6.3	18.1
M398737		1.80	9.95	0.18	2.1	0.03	0.034	1.97	29.0	20.6	0.73	250	0.16	0.03	6.2	17.1
M398738		3.96	5.53	0.14	3.3	3.94	0.040	0.43	20.2	23.5	0.06	76	15.55	0.11	7.4	16.6
M398739		1.82	8.83	0.16	1.8	0.02	0.035	1.75	25.4	19.6	0.77	443	0.21	0.03	5.5	14.7
M398740		2.55	15.80	0.23	2.9	0.10	0.052	3.31	38.5	19.4	3.80	445	0.27	0.05	8.5	23.0
M398741		3.14	21.4	0.24	3.6	0.16	0.071	4.46	45.8	25.6	1.59	180	0.61	0.05	11.6	31.4
M398742		4.65	22.1	0.25	3.3	0.59	0.070	4.33	48.1	23.0	1.74	126	0.40	0.04	11.4	32.8
M398743		1.25	1.61	0.12	0.4	0.76	0.011	0.28	5.8	3.5	10.65	644	0.48	0.02	1.0	6.5
M398744		0.80	1.00	0.12	0.2	1.69	0.011	0.17	4.3	1.5	12.15	733	0.06	0.01	0.7	9.5
M398745		0.66	1.08	0.12	0.2	0.81	0.009	0.17	4.6	3.1	12.00	621	0.11	0.02	0.6	3.0
M398746		0.65	0.93	0.12	0.3	0.61	0.007	0.17	3.2	2.1	11.80	530	0.25	0.01	0.6	3.9
M398747		0.93	2.91	0.14	1.0	1.48	0.010	0.56	9.6	5.9	10.05	563	0.36	0.02	1.8	3.0
M398748		0.44	0.17	0.14	<0.1	<0.01	0.006	0.02	0.5	1.0	12.05	209	<0.05	<0.01	0.2	1.4
M398749		0.74	1.90	0.14	0.7	2.43	0.009	0.35	6.6	4.1	10.25	602	0.19	0.02	1.2	2.4
M398750		3.71	5.52	0.14	3.1	4.07	0.032	0.41	19.8	24.1	0.08	74	14.75	0.11	7.2	16.5
M398751		0.47	1.38	0.13	0.4	1.34	0.007	0.25	5.9	3.3	10.95	415	0.18	0.01	0.9	1.5
M398752		0.61	3.50	0.16	2.0	0.36	0.013	0.70	8.6	8.0	8.93	417	0.30	0.02	2.4	2.0
M398753		0.82	4.21	0.16	2.4	4.24	0.014	0.79	10.2	9.5	7.78	499	0.81	0.02	2.6	5.6
M398754		0.87	3.09	0.10	0.9	2.78	0.014	0.50	6.9	7.4	10.00	675	0.80	0.02	2.1	4.2
M398755		0.84	2.22	0.08	0.6	2.08	0.007	0.35	5.2	5.6	10.75	741	0.60	0.02	1.5	3.3
M398756		0.85	4.60	0.12	2.3	1.25	0.009	0.83	10.3	8.1	8.60	480	1.02	0.02	3.1	7.0
M398757		0.73	1.85	0.12	0.5	1.33	0.005	0.30	5.2	4.2	10.90	625	0.44	0.01	1.1	2.6
M398758		0.74	1.90	0.11	0.5	1.52	<0.005	0.28	5.1	4.1	10.30	601	0.38	0.01	1.1	3.2
M398759		0.79	4.09	0.10	2.4	1.35	0.008	0.72	8.9	6.2	8.10	523	0.93	0.01	2.7	5.1
M398760		0.73	2.12	0.11	1.7	0.95	<0.005	0.37	5.5	3.2	8.54	522	0.29	0.01	1.6	1.3
M398761		0.45	0.36	0.24	<0.1	<0.01	<0.005	0.03	0.5	1.2	12.40	198	0.12	<0.01	0.3	1.7
M398762		2.15	13.55	0.13	2.6	5.46	0.038	2.56	33.1	9.0	5.46	529	0.39	0.02	8.2	18.9
M398763		2.63	15.05	0.15	3.5	1.58	0.048	2.81	35.4	8.0	1.32	342	0.37	0.03	10.2	21.8
M398764		3.37	23.8	0.23	3.3	1.00	0.062	4.04	36.4	19.7	0.96	262	0.45	0.04	12.8	32.3
M398765		3.57	22.4	0.25	3.6	1.26	0.059	3.74	37.6	23.7	0.88	338	0.56	0.04	12.4	31.1
M398766		3.22	26.7	0.24	3.3	0.64	0.065	4.29	38.2	15.2	1.40	377	0.40	0.04	15.3	31.1

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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210691**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398731		140	16.7	80.4	<0.002	1.54	0.32	6.3	1	1.1	599	0.35	0.05	7.2	0.160	0.42
M398732		150	14.7	75.6	<0.002	1.63	0.31	6.2	1	1.2	628	0.38	0.05	7.3	0.159	0.43
M398733		150	12.4	75.8	<0.002	1.12	0.39	5.4	1	1.2	656	0.42	0.05	7.5	0.192	0.37
M398734		670	16.9	111.0	<0.002	1.11	0.51	8.3	1	1.7	455	0.60	<0.05	10.4	0.266	0.47
M398735		330	14.9	96.4	<0.002	1.04	0.44	6.8	2	1.4	527	0.53	<0.05	9.3	0.244	0.45
M398736		380	14.6	92.1	<0.002	1.25	0.40	6.5	1	1.4	590	0.49	0.05	8.7	0.217	0.39
M398737		270	13.6	90.5	<0.002	1.03	0.38	6.4	1	1.3	460	0.50	0.05	8.6	0.228	0.40
M398738		280	19.1	17.6	0.002	0.86	55.9	5.1	2	2.6	226	0.44	0.15	4.3	0.314	12.10
M398739		320	11.6	79.7	<0.002	1.20	0.39	5.5	1	1.2	445	0.43	<0.05	7.5	0.195	0.42
M398740		1910	15.6	142.0	0.002	1.11	0.44	11.5	2	2.0	124.5	0.68	0.10	12.3	0.303	0.93
M398741		1140	24.3	180.0	<0.002	2.17	0.69	15.7	1	2.7	80.4	0.90	0.13	15.8	0.410	1.62
M398742		910	26.4	175.5	<0.002	4.48	0.89	16.2	1	2.7	94.3	0.86	0.14	15.2	0.400	2.72
M398743		1120	18.8	10.4	<0.002	0.72	0.51	1.3	<1	0.4	97.4	0.07	0.06	1.4	0.030	1.68
M398744		640	13.5	6.3	<0.002	0.30	1.60	0.8	1	0.4	93.8	<0.05	0.07	0.8	0.019	2.35
M398745		2770	4.8	6.6	<0.002	0.27	0.61	0.9	1	0.4	94.5	<0.05	<0.05	0.9	0.018	1.21
M398746		540	4.5	5.9	<0.002	0.15	0.46	0.7	<1	0.3	109.0	0.05	<0.05	0.8	0.018	1.06
M398747		440	6.2	20.4	<0.002	0.51	0.44	2.0	1	0.6	103.5	0.15	<0.05	2.9	0.060	3.38
M398748		190	1.5	1.1	<0.002	<0.01	0.06	0.1	1	0.3	40.2	<0.05	<0.05	<0.2	<0.005	0.06
M398749		510	4.3	13.1	<0.002	0.41	0.64	1.3	1	0.5	73.2	0.09	<0.05	1.8	0.037	5.67
M398750		260	17.3	17.4	0.003	0.81	55.0	4.9	2	2.5	211	0.42	0.13	4.2	0.302	11.65
M398751		370	3.6	8.9	<0.002	0.30	0.48	1.0	1	0.4	92.8	0.07	<0.05	1.3	0.026	2.51
M398752		500	4.4	26.1	<0.002	0.11	0.17	2.3	1	0.6	77.6	0.19	<0.05	3.7	0.070	0.83
M398753		500	8.3	29.2	0.002	0.79	0.86	2.6	1	0.7	81.6	0.22	<0.05	4.3	0.084	2.52
M398754		330	7.1	20.3	0.002	0.84	0.88	2.1	2	0.4	97.4	0.15	<0.05	2.7	0.052	4.39
M398755		130	6.5	13.5	0.003	0.29	0.32	1.7	1	0.3	108.0	0.10	<0.05	1.8	0.036	3.66
M398756		410	8.2	29.3	0.002	0.37	0.34	3.2	2	0.5	110.0	0.23	<0.05	4.3	0.081	2.25
M398757		180	4.2	10.8	<0.002	0.28	0.34	1.5	1	0.2	119.0	0.08	<0.05	1.4	0.028	2.39
M398758		170	5.1	10.6	<0.002	0.34	0.44	1.5	1	0.2	122.5	0.07	<0.05	1.4	0.027	2.35
M398759		420	6.4	25.1	<0.002	0.23	0.27	2.9	2	0.4	123.0	0.20	<0.05	3.8	0.072	2.05
M398760		400	2.4	12.9	<0.002	0.12	0.15	1.7	1	0.2	108.5	0.12	<0.05	2.3	0.039	1.75
M398761		180	1.3	2.6	<0.002	<0.01	<0.05	0.3	1	<0.2	45.0	<0.05	<0.05	<0.2	<0.005	0.03
M398762		690	17.4	104.0	<0.002	0.98	0.54	9.2	1	1.5	264	0.64	0.05	10.9	0.247	5.45
M398763		370	23.9	116.5	<0.002	1.46	0.54	10.0	1	1.8	235	0.78	0.05	13.3	0.308	2.46
M398764		270	35.1	151.5	<0.002	2.87	0.51	15.4	1	2.6	95.1	1.01	<0.05	16.6	0.325	3.97
M398765		660	27.2	155.0	<0.002	3.04	0.48	14.9	2	2.3	97.5	0.94	<0.05	16.3	0.335	3.80
M398766		320	27.4	142.0	<0.002	1.94	0.29	16.5	2	3.0	106.0	1.16	<0.05	16.8	0.343	2.43

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210691**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M398731		3.0	40	0.6	12.5	59	49.6
M398732		3.1	40	0.6	12.3	60	47.7
M398733		3.1	38	0.7	12.7	39	62.4
M398734		3.0	55	0.9	18.0	53	85.0
M398735		3.1	49	0.8	16.9	51	75.3
M398736		3.2	47	0.8	14.5	62	69.3
M398737		3.1	47	0.7	14.1	46	69.0
M398738		5.7	53	33.7	9.8	31	115.0
M398739		2.9	40	0.7	12.4	42	61.5
M398740		4.2	88	1.3	26.1	53	92.7
M398741		2.6	113	1.7	27.4	63	117.0
M398742		2.5	111	2.3	24.9	213	109.0
M398743		4.2	9	0.5	8.4	53	11.8
M398744		4.1	6	0.4	6.0	5	5.9
M398745		7.7	8	0.4	7.5	3	7.9
M398746		7.7	8	0.3	3.6	3	9.7
M398747		14.6	25	1.0	7.1	18	32.4
M398748		0.6	2	0.1	0.7	15	<0.5
M398749		10.2	16	0.8	6.4	7	24.4
M398750		5.5	50	32.6	9.7	28	109.5
M398751		10.1	13	0.7	4.6	10	13.8
M398752		9.5	37	0.8	7.4	5	69.0
M398753		12.5	28	1.5	8.9	8	85.5
M398754		19.7	24	1.4	5.8	13	30.4
M398755		19.2	15	1.1	4.2	9	21.1
M398756		14.7	25	1.5	9.0	9	83.3
M398757		13.2	14	0.7	4.3	54	17.5
M398758		12.8	14	0.7	4.2	70	16.3
M398759		13.5	27	1.3	9.4	11	88.9
M398760		6.7	12	0.6	7.0	3	62.1
M398761		1.1	2	0.1	0.9	14	<0.5
M398762		5.2	63	3.3	19.2	57	92.8
M398763		3.2	71	1.5	20.6	60	123.0
M398764		2.7	89	1.7	17.9	109	112.0
M398765		2.9	90	6.0	22.5	102	125.5
M398766		2.8	85	2.1	20.3	100	109.0



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12210691**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12213684**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 353  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 12- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------


<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12213684**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398767		7.37	0.08	0.04	3.99	688	320	0.91	0.08	8.16	0.04	45.1	5.4	32	13.15	6.6
M398768		7.69	0.01	0.02	3.82	78.4	360	0.80	0.09	9.08	0.03	46.7	5.7	31	13.30	6.4
M398769		6.46	0.08	0.03	5.49	239	580	1.14	0.13	4.51	0.19	71.5	8.3	48	14.70	9.7
M398770		3.79	0.46	0.07	3.46	406	170	0.73	0.08	9.34	0.32	45.2	5.2	29	8.10	6.3
M398771		4.02	0.11	0.06	3.53	291	170	0.74	0.09	9.35	0.23	45.7	5.3	28	8.59	6.3
M398772		1.92	0.19	0.04	4.71	>10000	410	0.72	0.10	3.98	0.15	58.0	6.7	37	12.20	8.7
M398773		3.92	0.03	0.02	3.48	142	250	0.70	0.08	10.40	0.10	44.9	5.0	28	8.90	5.8
M398774		4.91	<0.01	<0.01	0.04	7	40	0.06	0.01	20.7	0.06	1.27	2.1	<1	0.12	1.3
M398775		6.95	0.08	0.05	4.83	154.0	300	1.08	0.12	7.14	0.14	50.6	7.3	41	11.50	8.9
M398776		0.26	16.75	0.87	1.85	1160	190	0.41	0.55	14.60	0.71	33.4	4.3	36	2.45	64.8
M398777		7.40	0.08	0.04	4.08	3950	390	0.81	0.10	8.72	0.08	46.7	5.8	34	8.98	6.7
M398778		<0.02	0.08	0.03	4.10	3520	410	0.83	0.09	8.79	0.07	49.3	5.8	32	9.20	6.9
M398779		5.67	0.08	0.03	4.97	691	250	0.81	0.10	5.14	0.10	53.0	6.9	40	10.90	7.7
M398780		1.15	0.10	0.27	5.58	>10000	330	0.98	0.12	2.97	0.08	61.2	7.8	44	13.90	10.1
M398781		7.11	0.02	0.04	4.01	190.0	330	0.80	0.09	9.51	0.04	48.6	5.6	33	9.86	6.5
M398782		7.54	<0.01	0.04	4.95	186.5	410	0.99	0.11	6.72	0.06	63.5	7.3	41	11.65	8.1
M398783		6.68	0.04	0.04	4.74	460	270	0.89	0.10	7.46	0.09	57.9	6.8	39	10.20	7.6
M398784		6.94	0.04	0.03	4.10	314	260	0.80	0.09	9.44	0.07	48.4	5.9	33	9.27	6.7
M398785		6.98	0.03	0.04	4.86	193.0	340	0.93	0.10	6.94	0.23	57.0	6.5	37	11.00	7.7
M398786		6.58	0.04	0.05	4.30	287	340	0.97	0.09	8.24	0.22	53.3	6.1	35	10.35	7.1
M398787		4.92	<0.01	<0.01	0.05	<5	60	0.05	0.01	21.2	0.06	1.43	2.2	<1	0.12	3.3
M398788		7.11	0.08	0.05	4.03	629	300	0.71	0.08	8.85	0.61	48.5	5.9	31	7.80	6.7
M398789		6.59	0.08	0.05	3.98	3240	290	0.69	0.09	9.46	0.44	46.0	5.7	30	7.26	6.6
M398790		5.50	0.11	0.05	4.09	3000	250	0.65	0.08	7.40	0.39	49.4	5.8	31	7.19	6.4
M398791		7.80	0.56	0.07	3.22	6680	190	0.54	0.06	8.89	0.69	39.0	4.3	23	5.29	5.1
M398792		0.26	4.40	0.70	2.68	440	740	0.60	0.39	9.56	0.55	41.7	5.4	42	2.51	31.1
M398793		7.00	0.25	0.07	3.75	1085	210	0.62	0.08	8.78	0.04	43.3	5.2	29	6.43	6.5
M398794		8.11	0.41	0.08	3.51	1810	200	0.56	0.09	8.77	0.02	43.8	5.2	26	6.30	6.1
M398795		8.12	0.10	0.06	3.20	215	190	0.65	0.08	10.10	0.06	41.9	4.4	23	6.17	5.6
M398796		7.07	0.10	0.06	3.19	271	190	0.52	0.08	11.20	0.12	42.1	4.0	20	5.64	8.5
M398797		7.51	0.30	0.06	3.01	1960	170	0.50	0.07	10.90	0.02	37.5	3.6	18	4.91	6.4
M398798		7.72	0.85	0.09	3.34	3220	230	0.54	0.09	9.95	0.05	41.0	4.1	22	5.13	7.3
M398799		3.30	0.77	0.09	3.15	3370	220	0.51	0.08	9.77	0.03	39.5	4.0	21	4.88	6.8
M398800		8.45	0.35	0.07	3.03	5500	230	0.51	0.08	10.75	0.07	37.6	3.9	20	4.93	6.7
M398801		0.85	0.75	0.15	2.92	>10000	130	0.38	0.09	6.89	0.21	38.9	3.6	22	5.96	6.7
M398802		3.80	0.65	0.12	1.94	>10000	90	0.22	0.05	11.25	2.70	30.9	2.5	12	2.96	5.0



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12213684**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398767		1.46	10.65	0.12	2.7	2.73	0.026	2.36	22.4	5.1	4.85	527	0.24	0.03	7.6	10.9
M398768		1.32	10.50	0.11	2.6	1.92	0.027	2.25	22.2	5.2	5.38	381	0.22	0.03	7.5	10.9
M398769		2.01	15.65	0.22	3.6	3.97	0.036	3.08	35.2	7.5	2.77	465	0.29	0.04	11.4	17.5
M398770		3.02	10.00	0.10	2.5	4.81	0.024	1.73	21.5	5.8	5.18	1520	0.22	0.02	6.9	10.0
M398771		2.54	10.30	0.08	2.6	3.97	0.023	1.79	21.8	5.7	5.42	1280	0.21	0.02	7.0	9.9
M398772		1.85	13.15	0.13	3.2	5.14	0.050	2.19	29.6	8.6	2.40	488	0.30	0.02	9.2	14.2
M398773		1.16	9.74	0.08	2.5	2.42	0.022	2.04	21.1	4.8	6.42	518	0.21	0.03	6.8	9.3
M398774		0.46	0.56	0.45	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.35	200	0.12	<0.01	0.5	2.0
M398775		1.59	13.40	0.13	3.4	3.81	0.039	2.66	25.6	6.8	4.45	413	0.27	0.03	9.9	15.0
M398776		3.49	4.33	0.09	0.8	5.79	0.059	0.38	19.0	43.9	0.70	455	12.85	0.01	3.9	20.1
M398777		1.43	11.05	0.07	2.9	3.76	0.030	2.02	22.6	7.3	5.21	484	0.24	0.02	7.9	11.6
M398778		1.47	11.40	0.08	2.8	3.6	0.028	1.97	24.0	7.6	5.43	486	0.26	0.02	7.9	11.6
M398779		1.64	12.90	0.13	3.0	4.37	0.033	2.42	27.4	9.1	3.10	371	0.27	0.03	9.3	14.2
M398780		1.84	15.15	0.18	3.3	5.24	0.060	2.56	31.5	10.8	1.90	298	0.37	0.02	10.3	17.5
M398781		1.46	10.95	0.08	2.7	2.8	0.026	2.21	23.2	6.6	5.70	438	0.24	0.03	7.5	10.9
M398782		1.67	13.95	0.15	3.3	2.8	0.035	2.70	30.7	7.5	4.09	354	0.26	0.03	9.6	14.7
M398783		1.75	13.00	0.12	3.2	4.07	0.032	2.38	27.6	8.2	4.44	446	0.25	0.03	9.2	13.5
M398784		1.50	10.80	0.09	2.6	4.49	0.021	2.05	23.5	7.3	5.73	508	0.22	0.02	7.8	11.3
M398785		1.69	13.05	0.15	3.2	4.98	0.029	2.67	28.0	7.0	4.17	396	0.27	0.04	9.1	13.5
M398786		1.60	11.65	0.11	2.9	4.86	0.026	2.29	25.3	6.8	4.95	465	0.24	0.03	8.2	12.4
M398787		0.47	0.58	0.43	<0.1	0.01	<0.005	0.02	0.7	1.0	12.60	202	0.17	<0.01	0.5	2.2
M398788		1.84	11.15	0.13	2.6	6.18	0.024	1.87	24.1	7.9	5.34	618	0.23	0.02	7.8	11.1
M398789		1.62	10.95	0.11	2.7	6.62	0.026	1.74	22.2	8.7	5.97	621	0.26	0.02	7.6	10.6
M398790		1.86	11.30	0.10	2.8	7.69	0.026	1.80	25.0	8.4	4.40	713	0.22	0.02	7.8	11.1
M398791		2.65	8.58	0.06	2.1	11.9	0.027	1.36	19.0	7.3	4.97	1400	0.21	0.01	5.8	8.0
M398792		1.79	6.79	0.08	1.3	4.82	0.027	0.79	24.1	50.4	4.91	342	9.47	0.01	5.6	30.0
M398793		2.12	9.82	0.08	2.6	10.1	0.022	1.68	21.1	7.8	4.94	970	0.23	0.02	6.8	10.4
M398794		2.10	9.21	0.07	2.5	8.1	0.021	1.61	21.6	7.4	4.96	993	0.22	0.02	6.5	10.3
M398795		2.28	8.28	0.07	2.2	6.63	0.032	1.60	20.6	6.5	5.80	1170	0.27	0.02	5.8	8.5
M398796		1.63	7.57	0.10	2.2	5.5	0.018	1.41	21.4	6.9	6.60	922	0.28	0.02	5.9	10.8
M398797		1.58	7.07	0.11	2.1	6.5	0.018	1.33	18.3	6.7	6.10	1060	0.21	0.02	5.5	9.7
M398798		2.02	8.15	0.11	2.4	11.2	0.019	1.42	20.7	7.1	5.54	1220	0.22	0.02	6.0	11.1
M398799		1.98	7.85	0.10	2.3	11.0	0.019	1.33	20.1	6.9	5.58	1210	0.22	0.02	5.7	10.8
M398800		2.15	7.52	0.11	2.2	7.9	0.020	1.35	18.7	6.1	6.03	1280	0.21	0.02	5.5	10.7
M398801		4.20	7.97	0.14	2.2	15.4	0.053	1.30	21.5	4.8	3.88	843	0.33	0.01	5.5	10.0
M398802		5.48	4.04	0.14	1.7	16.1	0.027	0.83	15.7	3.3	6.58	1470	0.33	0.01	3.4	7.3



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12213684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398767		360	42.9	75.5	<0.002	1.41	0.24	5.3	2	1.2	103.0	0.60	<0.05	8.8	0.196	5.66
M398768		360	41.9	69.7	<0.002	1.35	0.13	5.7	2	1.1	126.0	0.58	<0.05	8.5	0.189	4.29
M398769		440	53.7	99.2	<0.002	2.11	0.26	7.5	2	1.8	94.3	0.87	<0.05	12.4	0.278	5.91
M398770		340	47.3	57.5	<0.002	2.30	0.22	5.3	2	1.1	120.5	0.53	<0.05	7.9	0.172	8.22
M398771		360	48.3	58.4	<0.002	2.26	0.23	5.6	2	1.1	121.5	0.56	<0.05	8.2	0.175	6.31
M398772		390	44.2	75.8	<0.002	3.19	0.61	5.4	2	1.5	119.0	0.75	<0.05	10.4	0.232	10.35
M398773		320	36.2	65.1	<0.002	1.18	0.16	5.0	2	1.1	113.5	0.54	<0.05	7.7	0.170	3.94
M398774		170	1.4	0.9	<0.002	<0.01	<0.05	1.0	1	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	0.02
M398775		430	50.3	85.1	<0.002	1.64	0.20	6.5	2	1.5	98.0	0.77	<0.05	10.7	0.238	5.74
M398776		650	23.6	25.2	0.007	1.87	153.5	4.5	3	2.1	46.1	0.25	0.39	3.7	0.106	3.63
M398777		370	40.7	64.0	<0.002	1.66	0.44	5.5	2	1.2	124.0	0.63	<0.05	9.0	0.204	8.90
M398778		360	40.9	64.4	<0.002	1.67	0.36	5.7	2	1.2	127.0	0.63	<0.05	9.2	0.197	8.96
M398779		380	46.3	74.1	<0.002	1.71	0.30	5.7	2	1.4	83.6	0.74	<0.05	10.5	0.243	7.61
M398780		440	47.6	83.7	<0.002	3.40	1.02	5.4	2	1.6	111.5	0.83	<0.05	11.6	0.273	13.75
M398781		380	39.4	68.9	<0.002	1.47	0.17	5.6	2	1.2	91.9	0.60	<0.05	8.7	0.199	4.77
M398782		440	43.5	84.1	<0.002	1.71	0.17	6.8	2	1.5	94.0	0.73	<0.05	10.7	0.241	5.20
M398783		400	43.0	72.5	<0.002	1.84	0.24	6.5	2	1.5	136.0	0.73	<0.05	10.3	0.235	6.52
M398784		410	54.4	63.4	<0.002	1.60	0.21	5.8	2	1.2	130.5	0.61	<0.05	8.6	0.201	7.02
M398785		440	50.0	82.7	<0.002	1.74	0.19	6.2	2	1.4	90.5	0.74	<0.05	10.4	0.227	5.89
M398786		430	49.5	71.5	<0.002	1.68	0.22	6.3	2	1.3	122.0	0.63	<0.05	9.3	0.206	5.80
M398787		180	1.5	1.0	<0.002	<0.01	<0.05	1.0	1	<0.2	48.5	<0.05	<0.05	<0.2	<0.005	0.03
M398788		370	62.2	59.3	<0.002	2.00	0.31	5.5	2	1.2	162.5	0.60	<0.05	8.4	0.197	6.87
M398789		370	73.3	58.5	<0.002	1.90	0.50	5.9	2	1.1	187.0	0.58	<0.05	8.4	0.190	12.25
M398790		320	65.6	57.4	<0.002	2.12	0.43	5.5	2	1.2	157.5	0.62	<0.05	8.8	0.194	10.30
M398791		250	57.7	43.5	<0.002	2.45	0.54	4.2	2	0.9	127.0	0.44	<0.05	6.6	0.148	12.25
M398792		530	9.5	44.7	0.008	1.41	85.5	4.9	3	2.5	53.8	0.39	0.19	5.6	0.146	2.28
M398793		360	61.8	51.8	<0.002	1.61	0.42	5.2	2	1.0	133.0	0.54	<0.05	8.4	0.183	9.31
M398794		330	67.9	51.7	<0.002	1.69	0.39	5.1	2	1.0	116.0	0.51	<0.05	8.5	0.170	10.40
M398795		340	66.5	49.6	<0.002	1.59	0.19	4.3	2	0.9	91.2	0.44	<0.05	7.8	0.150	6.74
M398796		350	55.3	50.8	<0.002	1.19	0.23	3.9	1	0.8	105.0	0.43	<0.05	8.5	0.150	5.98
M398797		310	48.7	47.5	<0.002	1.20	0.37	3.8	1	0.8	110.0	0.39	<0.05	7.9	0.140	8.00
M398798		390	59.9	53.8	<0.002	1.63	0.42	4.3	1	0.9	149.5	0.44	<0.05	9.0	0.157	12.30
M398799		360	52.5	50.5	<0.002	1.61	0.39	4.0	1	0.8	149.0	0.42	<0.05	8.4	0.147	11.95
M398800		410	60.5	49.2	<0.002	1.83	0.50	4.1	1	0.8	152.0	0.40	<0.05	8.1	0.141	9.00
M398801		210	102.0	46.3	<0.002	9.59	1.80	3.0	2	0.9	76.8	0.41	<0.05	7.6	0.139	41.6
M398802		170	86.1	28.6	<0.002	6.79	1.55	2.1	1	0.6	131.0	0.25	<0.05	5.0	0.085	20.7





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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12213684**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
M398767		2.2	31	4.1	11.2	13	94.1	
M398768		2.2	31	1.7	11.8	13	96.7	
M398769		2.6	43	6.8	14.0	77	118.5	
M398770		2.4	29	3.5	11.4	77	86.9	
M398771		2.5	30	3.5	11.5	59	89.0	
M398772		2.6	35	5.3	11.1	58	108.0	2.13
M398773		2.3	28	2.8	11.1	44	86.8	
M398774		0.6	2	0.1	0.8	14	0.5	
M398775		2.7	37	4.7	13.3	65	117.0	
M398776		3.4	110	206	16.3	80	33.4	
M398777		2.6	33	3.6	11.7	39	99.5	
M398778		2.6	32	3.5	11.8	38	100.5	
M398779		2.4	36	4.1	11.4	63	104.0	
M398780		2.7	40	6.3	11.6	41	112.0	2.47
M398781		2.5	33	2.4	12.2	24	95.5	
M398782		2.4	38	2.0	13.3	40	111.5	
M398783		2.6	37	3.6	12.4	57	111.0	
M398784		2.4	33	3.5	11.8	36	98.2	
M398785		2.3	35	4.5	12.6	117	115.5	
M398786		2.4	35	4.1	12.3	120	105.0	
M398787		0.8	2	0.1	0.8	14	<0.5	
M398788		2.1	31	3.8	11.3	183	94.5	
M398789		2.4	30	4.2	11.5	162	97.0	
M398790		2.1	29	4.4	10.7	134	95.7	
M398791		2.0	23	3.5	9.1	207	73.6	
M398792		4.9	92	61.7	14.0	71	52.5	
M398793		2.4	28	4.3	10.2	18	89.8	
M398794		2.3	26	4.1	10.3	8	88.0	
M398795		2.3	25	2.8	9.8	17	79.2	
M398796		2.4	23	3.0	10.6	33	80.1	
M398797		2.3	20	3.1	9.9	5	77.4	
M398798		2.5	23	4.2	10.3	13	86.8	
M398799		2.3	22	4.0	9.9	6	82.3	
M398800		2.6	21	3.1	10.3	16	82.3	
M398801		3.7	20	3.6	7.9	42	75.6	8.34
M398802		3.4	13	2.8	7.4	442	61.0	1.785



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12213684**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12216665**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 358  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH1221665**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398803		5.94	0.41	0.04	1.68	2000	80	0.31	0.06	17.30	0.63	23.4	2.1	9	2.82	4.2
M398804		5.62	0.06	0.04	2.07	521	80	0.32	0.07	16.10	0.06	24.8	2.2	10	3.58	4.0
M398805		4.91	<0.01	<0.01	0.04	6	110	0.06	0.04	22.1	0.06	1.12	0.7	<1	0.12	1.9
M398806		7.74	1.04	0.04	1.54	4050	90	0.30	0.06	17.05	0.08	20.9	1.7	8	2.27	4.0
M398807		8.44	0.06	0.07	2.80	560	110	0.58	0.09	14.25	0.08	35.1	3.4	18	5.73	6.6
M398808		7.97	0.05	0.10	3.24	442	150	0.71	0.11	12.85	0.51	40.0	4.0	23	7.44	9.3
M398809		7.19	0.09	0.03	0.89	2850	70	0.28	0.05	20.2	0.17	21.5	1.1	4	1.43	3.0
M398810		0.26	4.33	0.76	2.98	456	820	0.64	0.47	10.20	0.56	41.5	4.8	40	2.53	34.2
M398811		7.99	0.15	0.09	2.76	4050	150	0.59	0.11	14.40	0.02	31.4	3.5	18	5.78	7.5
M398812		8.35	0.29	0.03	1.11	669	60	0.37	0.05	18.65	0.13	21.4	1.6	5	2.22	3.4
M398813		8.20	0.22	0.04	1.16	625	60	0.39	0.06	18.30	0.05	17.10	1.5	6	2.41	3.3
M398814		<0.02	0.21	0.03	1.14	617	60	0.41	0.06	17.75	0.05	18.70	1.5	6	2.46	3.9
M398815		7.57	0.04	0.05	1.97	6120	100	0.44	0.07	15.15	0.07	24.4	2.4	12	3.74	4.8
M398816		7.49	0.01	0.05	2.05	556	190	0.42	0.07	14.90	0.04	29.7	2.3	12	4.38	4.5
M398817		8.15	0.03	0.09	3.08	336	140	0.59	0.10	11.20	2.11	34.1	3.2	18	6.86	6.1
M398818		8.28	0.11	0.10	2.88	3680	160	0.64	0.10	12.30	2.53	39.8	2.9	19	6.34	6.8
M398819		8.26	0.01	0.08	3.05	83	180	0.68	0.12	12.00	1.23	41.2	3.4	20	8.07	7.0
M398820		8.22	0.02	0.10	3.76	149	170	0.87	0.13	10.80	1.37	43.9	4.1	25	9.12	8.5
M398821		3.47	0.02	0.09	3.57	138	160	0.71	0.12	10.50	1.33	38.5	3.7	25	8.08	7.7
M398822		7.92	<0.01	0.14	3.09	71	210	0.56	0.12	11.70	4.96	44.7	3.8	24	9.89	7.4
M398823		8.30	<0.01	0.10	2.10	37	130	0.33	0.07	13.20	0.98	32.6	2.6	14	5.92	4.8
M398824		8.17	<0.01	0.08	1.84	71	90	0.28	0.06	15.10	2.19	36.2	2.3	13	4.26	4.2
M398825		7.80	<0.01	0.14	2.89	166	340	0.44	0.11	11.30	0.41	33.3	3.7	23	7.96	8.0
M398826		8.13	<0.01	0.13	10.10	27.9	390	2.45	0.48	1.84	0.69	99.9	14.4	80	39.8	25.1
M398827		4.90	<0.01	0.02	0.06	5	30	0.05	0.02	20.8	0.07	1.22	1.3	<1	0.19	1.1
M398828		7.91	<0.01	0.12	9.09	6.6	320	2.37	0.45	2.27	0.12	89.5	13.0	71	37.7	21.7
M398829		1.99	<0.01	0.13	9.30	23.2	310	2.50	0.43	3.04	0.07	102.5	13.3	66	39.6	21.6
M398830		1.40	<0.01	0.13	0.58	33	90	0.18	0.02	26.1	0.03	9.69	1.5	1	1.15	2.7
M398831		0.90	<0.01	0.27	7.12	33.9	310	2.15	0.27	6.45	0.23	71.2	16.9	61	30.5	34.5
M398832		2.52	<0.01	0.41	10.50	104.0	400	2.52	0.37	0.31	0.06	111.5	8.3	80	40.0	25.9
M398833		2.89	<0.01	0.19	10.65	277	400	5.04	0.28	0.40	0.42	117.5	19.3	79	43.6	52.5
M398834		4.22	<0.01	0.12	8.79	91.5	300	3.30	0.27	2.77	0.05	97.8	15.1	69	35.7	36.2
M398835		5.00	<0.01	0.12	8.99	72.2	310	3.66	0.28	2.24	0.04	107.5	15.7	69	34.6	44.9
M398836		2.82	<0.01	0.14	10.35	62.3	340	4.18	0.33	0.20	0.03	103.0	16.1	76	38.8	47.8
M398837		7.91	<0.01	0.17	9.72	64.3	320	4.03	0.30	1.26	0.05	114.0	17.9	72	44.5	39.2
M398838		0.26	4.28	0.80	2.81	446	820	0.57	0.47	10.40	0.60	42.4	5.3	41	2.74	31.8



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH1221665**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398803		2.75	3.79	0.11	1.2	4.92	0.016	0.72	11.6	4.6	8.84	1680	0.17	0.02	2.9	5.6
M398804		2.11	4.43	0.14	1.4	3.33	0.008	0.88	12.8	5.9	8.43	1330	0.21	0.02	3.3	6.1
M398805		0.50	0.20	0.22	<0.1	0.01	<0.005	0.02	0.5	1.1	12.80	210	0.64	<0.01	0.1	1.7
M398806		2.03	3.29	0.14	1.1	6.33	0.011	0.64	10.2	5.2	9.05	1420	0.19	0.02	2.4	5.1
M398807		2.88	6.48	0.13	2.1	4.33	0.015	1.32	17.3	5.9	7.71	1730	0.24	0.02	4.9	10.2
M398808		2.85	8.16	0.16	2.4	5.42	0.021	1.53	21.3	7.8	7.03	1480	0.36	0.02	5.9	13.5
M398809		1.18	2.42	0.16	1.1	1.72	0.005	0.41	10.0	2.9	10.60	1140	0.12	0.02	1.4	2.9
M398810		1.91	6.28	0.15	1.4	4.72	0.028	0.85	24.8	59.3	5.18	342	9.34	0.01	5.6	30.5
M398811		2.20	6.42	0.16	2.1	4.65	0.019	1.25	16.5	6.1	8.25	1280	0.26	0.02	4.8	10.5
M398812		2.74	2.64	0.13	0.8	4.61	0.007	0.50	10.9	3.2	9.44	1840	0.17	0.02	2.0	4.3
M398813		2.38	2.82	0.13	0.9	3.08	0.010	0.53	8.4	3.5	9.25	1630	0.15	0.02	2.1	4.4
M398814		2.31	2.71	0.12	0.8	3.00	0.007	0.51	8.9	3.5	9.07	1600	0.17	0.02	2.2	4.7
M398815		2.56	4.36	0.12	1.4	2.78	0.014	0.87	12.2	5.2	7.83	1490	0.22	0.02	3.3	6.8
M398816		3.79	4.44	0.12	1.4	2.43	0.009	1.02	15.1	4.7	7.60	2320	0.19	0.02	3.2	6.2
M398817		3.62	6.76	0.12	2.1	3.42	0.019	1.51	17.8	5.9	5.81	2200	0.23	0.02	4.7	9.4
M398818		3.79	6.92	0.13	1.9	4.13	0.020	1.33	18.3	6.2	5.98	2380	0.33	0.02	4.4	9.8
M398819		4.36	7.15	0.14	2.1	1.89	0.015	1.49	20.1	6.1	6.20	2510	0.30	0.02	4.9	10.1
M398820		3.77	9.03	0.15	2.5	3.78	0.021	1.69	20.4	7.9	5.40	2030	0.32	0.02	5.9	12.9
M398821		3.65	8.12	0.12	2.5	3.62	0.022	1.62	18.8	7.2	5.30	2000	0.28	0.02	5.4	11.6
M398822		4.32	8.01	0.13	2.1	4.32	0.024	1.56	22.8	4.6	5.86	2610	0.29	0.02	5.7	10.8
M398823		4.55	4.94	0.12	1.4	0.71	0.014	1.00	16.6	3.5	6.78	2850	0.19	0.02	3.8	6.7
M398824		4.69	4.19	0.12	1.2	1.21	0.014	0.80	16.8	3.1	7.74	3120	0.18	0.01	3.0	5.8
M398825		4.12	6.20	0.11	2.1	2.90	0.013	1.29	17.6	4.5	6.02	2000	0.27	0.02	4.8	10.9
M398826		3.90	26.8	0.24	2.9	0.98	0.073	4.82	52.1	12.9	1.33	552	0.28	0.04	14.8	37.0
M398827		0.49	0.34	0.30	<0.1	<0.01	<0.005	0.02	0.6	0.8	12.65	207	0.14	<0.01	0.3	1.9
M398828		3.71	23.7	0.21	2.9	0.52	0.068	4.41	47.1	14.2	1.65	424	0.26	0.04	13.8	32.4
M398829		3.27	24.8	0.25	3.2	0.59	0.067	4.37	54.6	15.1	2.21	400	0.22	0.04	13.6	31.5
M398830		0.98	1.37	0.07	0.1	0.01	<0.005	0.18	4.8	5.3	1.56	259	0.20	0.11	1.0	1.6
M398831		4.21	22.1	0.20	2.9	0.45	0.071	3.65	34.4	18.9	0.51	322	3.18	0.07	11.9	31.6
M398832		2.88	30.1	0.22	3.6	0.58	0.070	4.73	55.2	33.2	0.63	164	3.56	0.07	14.2	20.7
M398833		4.92	30.5	0.26	3.3	0.38	0.084	4.62	56.3	28.6	0.64	555	3.50	0.05	13.0	46.2
M398834		4.51	26.1	0.26	3.0	0.16	0.078	4.13	46.1	23.1	1.14	1000	2.34	0.05	11.7	34.6
M398835		4.53	27.9	0.28	3.3	0.12	0.085	4.25	50.3	25.7	1.03	1300	1.61	0.05	12.5	36.4
M398836		3.75	31.1	0.26	3.3	0.14	0.091	4.74	48.6	34.1	0.74	237	1.15	0.06	13.5	37.8
M398837		4.16	28.8	0.28	3.3	0.13	0.083	4.39	54.5	35.8	1.40	785	1.22	0.05	12.9	37.5
M398838		1.88	6.84	0.15	1.4	4.84	0.029	0.82	25.4	52.0	5.08	367	8.98	0.01	5.7	31.9



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH1221665**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398803		290	39.7	25.2	<0.002	1.49	0.64	2.4	<1	0.5	112.5	0.22	<0.05	4.2	0.078	10.20
M398804		290	41.4	29.7	<0.002	1.13	0.44	2.7	1	0.6	98.3	0.26	<0.05	5.0	0.094	4.85
M398805		180	1.5	0.9	0.003	0.01	0.11	0.1	<1	<0.2	47.2	<0.05	<0.05	<0.2	<0.005	<0.02
M398806		390	37.4	22.2	0.002	1.27	0.57	1.9	1	0.5	112.0	0.19	<0.05	4.1	0.067	12.00
M398807		350	70.9	47.7	0.003	1.72	0.30	3.6	1	0.8	93.5	0.41	<0.05	7.6	0.136	7.33
M398808		330	73.6	55.7	0.003	1.82	0.35	4.6	1	1.0	108.5	0.45	<0.05	8.4	0.158	8.42
M398809		4660	19.9	14.3	0.002	0.65	0.28	1.4	<1	0.3	122.0	0.11	<0.05	2.2	0.040	3.09
M398810		560	10.0	50.4	0.011	1.48	105.0	4.6	1	2.5	59.1	0.38	0.16	6.5	0.155	2.49
M398811		460	72.3	44.2	0.002	1.59	0.47	3.5	1	0.9	103.0	0.39	<0.05	7.0	0.130	8.65
M398812		310	40.3	17.4	<0.002	1.11	0.29	1.7	1	0.4	109.0	0.16	<0.05	3.2	0.054	9.85
M398813		320	33.0	18.4	0.003	0.78	0.28	1.7	1	0.4	99.4	0.17	<0.05	3.3	0.057	5.50
M398814		320	32.2	18.4	<0.002	0.76	0.25	1.6	<1	0.4	96.6	0.15	<0.05	3.3	0.055	5.58
M398815		240	51.3	29.7	0.002	1.36	0.61	2.5	1	0.6	98.3	0.26	<0.05	5.2	0.092	5.12
M398816		330	80.9	34.3	<0.002	1.49	0.18	2.5	<1	0.6	88.1	0.27	<0.05	5.4	0.092	4.11
M398817		350	60.8	52.1	<0.002	1.82	0.30	3.4	<1	0.8	80.4	0.39	<0.05	7.4	0.134	4.80
M398818		590	58.6	48.0	0.003	1.81	0.43	3.6	2	0.8	99.8	0.35	<0.05	7.4	0.119	6.75
M398819		420	58.7	52.3	0.002	1.96	0.20	3.9	1	0.9	90.2	0.40	<0.05	7.6	0.137	3.83
M398820		470	59.1	63.0	<0.002	1.88	0.32	4.6	2	1.1	106.0	0.46	<0.05	8.8	0.163	5.78
M398821		460	57.6	54.3	<0.002	1.82	0.27	4.1	1	1.0	103.0	0.46	<0.05	8.8	0.157	5.66
M398822		370	47.4	54.5	<0.002	1.95	0.14	3.9	2	1.0	101.5	0.46	<0.05	7.8	0.144	3.50
M398823		210	36.2	34.0	<0.002	1.93	0.10	2.6	1	0.6	94.1	0.29	<0.05	5.0	0.091	2.12
M398824		690	36.4	26.7	<0.002	1.69	0.12	2.8	1	0.5	124.0	0.22	<0.05	4.4	0.072	2.70
M398825		370	55.6	42.8	<0.002	2.65	0.17	3.6	1	0.9	124.0	0.39	<0.05	7.5	0.122	7.99
M398826		840	75.7	161.0	<0.002	3.59	0.31	15.3	2	3.2	157.5	1.19	<0.05	19.3	0.367	3.37
M398827		190	1.6	1.2	<0.002	0.02	<0.05	0.2	1	<0.2	48.0	<0.05	<0.05	<0.2	<0.005	0.02
M398828		400	58.5	148.5	<0.002	3.36	0.31	14.1	2	3.1	110.5	1.10	<0.05	18.0	0.340	2.83
M398829		210	50.4	171.0	<0.002	2.97	0.28	14.9	2	3.0	109.0	1.13	<0.05	19.1	0.337	2.88
M398830		320	1.8	9.7	<0.002	0.27	0.26	1.2	1	0.2	617	0.06	<0.05	1.0	0.025	0.13
M398831		490	16.2	126.0	0.008	0.05	1.21	11.4	2	3.1	204	0.93	<0.05	11.8	0.315	1.83
M398832		510	20.4	201	0.010	0.07	1.25	15.4	3	3.8	110.5	1.18	0.05	17.1	0.393	5.42
M398833		710	21.6	202	0.016	0.21	1.56	20.0	2	3.5	159.5	1.13	<0.05	18.8	0.364	2.52
M398834		440	13.4	151.5	0.008	0.44	0.67	16.1	2	3.0	121.5	0.99	<0.05	14.9	0.328	1.29
M398835		470	13.6	158.5	0.006	0.42	0.65	17.7	2	3.2	126.5	1.04	<0.05	15.7	0.340	1.15
M398836		450	15.3	196.5	0.009	0.20	0.60	19.5	3	3.5	117.0	1.11	<0.05	16.4	0.367	1.26
M398837		440	14.0	183.0	0.008	0.80	0.70	17.7	3	3.3	140.5	1.05	<0.05	16.8	0.347	1.28
M398838		540	9.5	46.6	0.009	1.40	93.1	4.8	3	2.8	58.9	0.39	0.18	6.1	0.151	2.50



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12216665**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M398803		3.3	14	2.1	7.3	122	45.7
M398804		4.7	14	2.1	8.0	17	53.2
M398805		0.8	1	0.2	0.8	14	<0.5
M398806		2.6	11	2.3	6.7	32	40.0
M398807		2.8	22	3.1	9.3	36	68.3
M398808		3.8	27	3.4	11.6	116	84.9
M398809		2.4	11	1.0	8.5	137	78.7
M398810		5.7	91	68.7	15.5	69	52.7
M398811		3.1	21	3.1	9.5	11	72.3
M398812		1.9	9	1.8	6.6	60	27.8
M398813		1.9	9	1.7	5.8	15	33.5
M398814		1.9	9	1.6	5.8	12	33.9
M398815		2.9	14	1.9	7.4	22	44.3
M398816		2.2	15	1.7	8.5	12	51.7
M398817		2.5	21	2.6	10.3	376	74.3
M398818		3.0	21	2.7	13.5	439	79.9
M398819		2.7	23	1.4	11.9	238	74.8
M398820		3.1	27	3.0	12.2	259	86.5
M398821		3.1	26	3.0	11.2	263	80.5
M398822		2.4	24	1.1	12.5	942	72.6
M398823		1.9	16	0.8	9.5	237	48.5
M398824		2.2	17	1.3	12.7	428	51.2
M398825		3.2	25	1.6	11.7	77	74.2
M398826		2.8	83	1.9	21.1	300	95.1
M398827		0.8	3	0.1	0.8	16	0.5
M398828		2.5	79	1.8	19.2	107	97.8
M398829		2.7	75	1.8	18.5	79	95.7
M398830		0.7	7	0.8	3.4	7	9.2
M398831		2.4	131	2.6	18.8	93	101.0
M398832		4.1	195	5.2	20.8	65	120.5
M398833		4.4	185	4.1	26.6	110	110.5
M398834		3.2	149	1.9	23.5	59	99.2
M398835		3.2	135	2.3	25.1	63	105.0
M398836		3.5	159	2.2	22.9	77	110.5
M398837		4.3	144	2.1	24.4	80	108.0
M398838		5.1	96	72.9	15.6	71	50.1



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12216665**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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 30- OCT- 2012  
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**CERTIFICATE WH12248137**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 362  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**  
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Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12223867 \*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12248137**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
M398310		<0.01
M398311		<0.01
M398312		0.01
M398313		<0.01
M398314		<0.01
M398315		<0.01
M398316		<0.01
M398317		<0.01
M398318		0.02
M398319		<0.01
M398320		<0.01
M398321		<0.01
M398322		0.03
M398323		0.01
M398324		0.02
M398325		<0.01
M398326		0.01
M398327		<0.01
M398328		0.27
M398329		<0.01
M398330		<0.01
M398331		<0.01
M398332		<0.01
M398333		0.02
M398334		<0.01
M398335		<0.01
M398336		<0.01
M398337		<0.01
M398338		0.26
M398339		<0.01
M398340		<0.01
M398341		<0.01
M398342		<0.01
M398343		<0.01
M398344		<0.01
M398345		<0.01

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH1223867 \*\*



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 Account: RCM

**CERTIFICATE WH12223869**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 366  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 30- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223869**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M388742		8.26	<0.01	0.07	7.55	10.1	300	2.11	0.36	4.72	0.05	61.2	14.4	62	35.9	38.4
M388743		7.52	<0.01	0.04	7.89	5.7	320	2.38	0.40	3.29	0.05	66.3	14.2	64	39.8	34.6
M388744		8.46	<0.01	0.11	8.54	55.9	690	2.98	0.37	2.17	0.30	91.8	18.0	63	39.5	45.3
M388745		7.93	<0.01	0.10	6.57	14.0	350	1.81	0.25	3.97	0.23	69.1	20.6	58	33.2	80.9
M388746		3.74	<0.01	0.10	6.98	14.0	390	2.03	0.26	3.35	0.25	76.4	21.0	59	36.3	80.1
M388747		7.33	<0.01	0.09	6.03	18.8	310	1.55	0.25	5.81	0.19	65.4	19.5	52	25.2	68.4
M388748		7.58	0.01	0.10	7.14	16.2	300	1.73	0.27	4.82	0.13	76.0	17.5	57	35.9	54.1
M388749		4.88	<0.01	0.01	0.08	<5	30	0.08	0.02	20.6	0.05	1.44	1.3	<1	0.26	2.0
M388750		7.63	<0.01	0.08	5.92	27.2	490	1.44	0.24	4.98	0.40	57.6	26.6	61	35.7	119.0
M388751		7.44	<0.01	0.08	5.59	19	240	1.39	0.20	11.70	0.12	58.4	16.0	96	31.1	50.8
M388752		7.76	<0.01	0.06	5.67	7	360	1.42	0.21	12.25	0.12	65.2	12.1	43	25.0	27.5
M388753		7.59	<0.01	0.05	6.31	18.9	340	1.52	0.24	9.36	0.11	69.2	14.4	52	25.4	39.9
M388754		7.46	<0.01	0.10	7.35	24.0	210	1.96	0.29	5.10	0.09	71.2	17.0	61	24.7	42.4
M388755		0.20	0.28	0.76	1.84	425	1290	0.39	0.40	0.98	0.37	40.0	4.3	71	2.24	44.5
M388756		8.15	<0.01	0.07	6.83	30.2	210	1.57	0.26	4.29	0.20	69.1	23.4	60	16.90	83.6
M388757		7.07	<0.01	0.10	5.29	17.1	140	1.27	0.22	5.45	0.17	58.1	21.8	48	11.40	89.1
M388758		7.61	<0.01	0.06	5.63	19.0	150	1.23	0.20	4.61	0.27	51.8	22.9	56	11.80	106.0
M388759		7.48	<0.01	0.08	6.54	8.9	120	1.49	0.21	2.94	0.31	49.2	32.2	69	13.65	154.0
M388760		7.51	<0.01	0.09	6.46	6.4	130	1.52	0.20	2.97	0.29	50.4	32.0	67	24.8	155.0
M388761		<0.02	<0.01	0.08	6.52	6.5	140	1.63	0.21	2.86	0.23	48.4	31.4	67	24.0	154.0
M388762		7.65	<0.01	0.06	5.82	37.4	340	1.51	0.19	4.35	0.20	47.2	27.2	56	15.35	128.5
M388763		7.71	<0.01	0.09	5.92	135.5	370	1.30	0.24	5.16	0.20	54.9	28.4	56	11.95	119.0
M388764		8.63	<0.01	0.07	8.23	66.5	390	2.26	0.29	1.57	0.07	85.9	19.4	63	26.1	49.1
M388765		7.66	<0.01	0.06	8.53	11.7	370	2.28	0.32	0.58	<0.02	81.6	16.8	69	42.9	39.1
M388766		6.40	<0.01	0.16	8.89	16.5	500	3.11	0.36	1.55	0.37	92.7	19.7	86	28.0	54.5
M388767		6.92	<0.01	<0.01	0.06	<5	20	0.06	0.02	20.2	0.07	1.29	1.2	<1	0.18	1.8
M388768		8.57	<0.01	0.14	9.18	16.6	500	3.26	0.39	1.30	0.41	93.6	21.0	85	29.4	56.6
M388769		8.99	<0.01	0.11	8.96	15.2	570	3.29	0.41	1.66	0.41	84.1	21.2	86	28.5	59.5
M388770		8.55	<0.01	0.14	8.35	47.0	520	3.16	0.41	2.32	0.27	86.2	18.5	81	26.7	51.0
M388771		10.06	<0.01	0.11	8.16	55.3	510	3.20	0.32	2.67	0.28	86.0	19.8	80	29.3	46.1
M388772		0.20	4.38	0.73	2.62	401	740	0.64	0.39	9.26	0.53	43.8	5.0	38	2.59	32.8
M388773		11.50	<0.01	0.13	7.05	625	1030	2.64	0.43	3.26	0.30	73.2	18.4	64	16.40	64.3
M388774		11.20	<0.01	0.12	7.13	680	840	2.70	0.36	3.29	0.25	74.2	17.0	69	16.35	51.8
M388775		10.27	<0.01	0.10	7.20	580	800	2.98	0.42	3.73	0.21	75.8	17.3	63	17.75	51.9
M388776		6.18	<0.01	0.09	7.35	677	900	2.65	0.57	2.97	0.19	72.4	18.9	65	17.70	52.6
M388777		9.39	<0.01	0.15	7.95	581	720	3.10	0.54	2.05	0.34	70.5	19.0	73	19.90	52.9



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223869**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M388742		3.74	22.1	0.19	2.8	0.03	0.061	3.54	30.5	61.5	1.03	431	0.37	0.07	12.1	39.0
M388743		3.95	23.5	0.17	3.0	0.07	0.064	3.62	32.9	74.5	1.18	455	0.55	0.07	12.4	35.1
M388744		4.40	22.9	0.19	3.2	0.78	0.071	3.40	45.3	94.6	1.75	519	3.49	0.06	12.2	46.4
M388745		5.08	18.10	0.18	3.1	0.33	0.064	2.35	33.4	127.0	2.76	736	1.75	0.15	11.5	39.9
M388746		5.04	19.80	0.19	3.1	0.33	0.071	2.48	37.8	132.0	2.61	685	1.99	0.15	12.1	40.8
M388747		4.72	16.50	0.16	3.1	0.25	0.063	2.30	32.6	101.0	3.03	806	1.82	0.06	10.9	35.7
M388748		4.66	18.70	0.20	3.1	0.16	0.064	2.82	39.8	84.2	2.23	664	0.85	0.22	11.2	42.3
M388749		0.46	0.27	<0.05	<0.1	<0.01	<0.005	0.03	0.7	1.3	12.45	197	0.16	0.01	0.5	3.0
M388750		6.33	17.30	0.13	3.3	0.18	0.079	1.72	25.8	147.0	3.01	875	3.81	0.53	12.3	48.8
M388751		3.87	14.85	0.10	2.5	0.12	0.057	2.08	30.3	75.2	1.53	592	1.64	0.23	9.3	56.4
M388752		3.08	14.35	0.10	2.1	0.16	0.040	2.26	34.1	33.0	1.91	683	0.92	0.15	7.8	26.4
M388753		3.62	16.55	0.10	2.6	0.17	0.049	2.65	36.1	36.1	2.08	695	1.41	0.05	9.1	29.7
M388754		4.01	20.3	0.12	2.9	0.28	0.055	3.17	35.9	41.1	1.70	551	0.99	0.06	11.0	35.1
M388755		3.78	5.66	0.07	3.4	3.90	0.026	0.41	20.3	25.9	0.06	71	15.75	0.11	8.0	19.7
M388756		5.14	18.60	0.14	3.2	0.27	0.070	2.33	34.8	55.0	2.60	916	1.28	0.04	11.7	45.3
M388757		5.17	15.35	0.12	2.9	0.27	0.070	1.42	25.9	65.7	3.15	910	1.42	0.03	10.5	36.3
M388758		5.52	16.25	0.13	3.1	0.43	0.072	1.50	23.6	99.4	3.04	849	1.48	0.03	12.5	43.2
M388759		6.99	18.90	0.14	3.0	0.24	0.097	1.31	21.8	170.5	3.00	897	0.45	0.03	12.8	58.4
M388760		7.17	19.10	0.15	2.9	0.17	0.099	1.42	22.0	292	3.23	921	0.41	0.04	12.9	49.2
M388761		7.23	18.65	0.17	2.8	0.18	0.090	1.41	21.5	291	3.22	902	0.38	0.04	12.6	53.9
M388762		6.70	16.55	0.16	2.7	0.45	0.078	1.33	21.3	348	3.40	1060	0.34	0.03	11.1	44.4
M388763		6.17	16.45	0.17	2.9	0.92	0.077	1.45	25.6	242	2.96	1180	1.69	0.03	11.0	57.5
M388764		4.60	21.9	0.17	3.5	0.33	0.070	2.98	44.5	166.0	1.51	609	0.49	0.04	12.3	37.9
M388765		4.22	23.0	0.17	3.3	0.06	0.061	3.59	41.1	67.0	1.35	464	0.43	0.13	12.5	36.0
M388766		5.00	24.0	0.19	3.3	0.30	0.078	3.61	44.3	135.5	0.55	382	3.65	0.07	13.3	51.2
M388767		0.48	0.23	<0.05	<0.1	<0.01	<0.005	0.02	0.6	1.0	12.20	207	0.11	<0.01	0.3	2.8
M388768		4.78	25.8	0.18	3.2	0.39	0.079	3.76	45.0	148.0	0.59	313	3.77	0.06	13.6	53.4
M388769		4.77	24.9	0.18	3.0	0.69	0.082	3.81	38.1	130.5	0.59	559	3.40	0.06	13.1	44.5
M388770		4.99	23.1	0.19	3.2	1.08	0.084	3.47	40.9	135.5	0.79	540	3.62	0.06	12.8	51.3
M388771		4.30	22.8	0.20	3.3	1.18	0.080	3.44	41.5	138.5	1.44	329	2.89	0.06	13.3	48.6
M388772		1.73	6.10	<0.05	1.5	4.84	0.023	0.76	24.2	53.5	4.82	330	9.34	0.01	5.4	32.4
M388773		4.20	19.70	0.17	2.8	2.60	0.067	3.06	35.7	31.9	1.78	528	4.22	0.04	10.3	47.3
M388774		4.68	20.2	0.16	2.9	2.61	0.071	3.11	36.5	23.2	1.58	457	5.79	0.04	10.6	42.2
M388775		4.70	20.2	0.17	2.9	2.68	0.070	3.09	37.1	47.0	1.92	622	4.65	0.04	10.6	45.0
M388776		4.53	19.95	0.14	3.1	2.41	0.089	3.19	36.1	38.7	1.66	558	4.76	0.04	10.7	44.4
M388777		4.35	22.2	0.14	2.8	2.00	0.094	3.36	33.8	42.6	1.33	381	5.33	0.04	12.3	41.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223869**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M388742		330	26.7	109.0	<0.002	0.11	0.33	11.8	1	2.4	288	0.92	0.10	10.3	0.357	0.87
M388743		560	21.4	116.5	0.002	0.25	0.35	12.9	1	2.6	234	0.94	0.10	11.7	0.357	0.98
M388744		750	26.4	156.5	0.007	2.67	1.17	15.8	2	3.1	419	0.97	0.09	15.8	0.369	3.31
M388745		550	19.4	121.0	0.004	1.23	0.53	17.5	2	2.2	225	0.84	0.13	10.3	0.464	1.01
M388746		580	18.1	131.0	0.004	1.15	0.55	18.3	2	2.3	233	0.87	0.13	11.7	0.451	1.05
M388747		520	19.4	124.0	0.003	1.18	0.61	15.4	2	2.1	217	0.76	0.11	9.0	0.425	1.09
M388748		520	22.5	141.5	0.002	1.26	0.51	15.5	2	2.1	207	0.85	0.10	11.8	0.409	1.29
M388749		190	3.0	1.7	<0.002	<0.01	<0.05	0.2	1	<0.2	48.9	<0.05	<0.05	0.3	0.005	<0.02
M388750		580	14.5	106.0	0.004	1.25	0.64	21.0	3	2.0	173.5	0.85	0.21	6.6	0.571	1.88
M388751		730	18.1	120.5	0.002	1.13	0.52	12.9	2	1.7	415	0.64	0.11	8.8	0.338	1.09
M388752		570	16.7	125.5	0.002	1.45	0.50	9.9	1	1.6	479	0.59	0.05	10.0	0.246	1.48
M388753		580	18.4	132.0	0.003	1.62	0.66	12.1	2	1.8	318	0.68	0.08	10.9	0.317	1.76
M388754		710	25.1	120.5	0.003	1.88	0.77	13.5	2	2.2	156.0	0.85	0.07	11.1	0.366	2.28
M388755		260	19.3	18.2	0.002	0.83	59.1	5.1	3	2.4	221	0.53	0.14	4.2	0.295	11.75
M388756		540	19.8	125.0	0.003	1.28	0.63	17.9	2	2.1	153.0	0.83	0.14	9.8	0.473	1.84
M388757		500	16.3	84.2	0.003	1.05	0.43	17.0	2	1.9	171.5	0.73	0.16	6.7	0.465	1.20
M388758		520	14.4	90.0	0.003	1.44	0.59	19.0	2	1.8	156.5	0.87	0.16	6.2	0.533	1.46
M388759		620	10.9	86.4	0.003	0.57	0.38	25.6	3	1.9	111.0	0.85	0.23	5.2	0.694	0.89
M388760		630	10.3	98.7	0.002	0.41	0.28	25.7	3	2.0	100.5	0.85	0.24	5.1	0.679	0.75
M388761		620	10.1	97.8	0.002	0.41	0.28	25.3	3	1.9	99.5	0.83	0.25	5.1	0.677	0.73
M388762		590	9.1	83.8	<0.002	2.38	0.26	22.2	2	1.7	237	0.74	0.22	5.0	0.587	0.87
M388763		460	19.8	85.0	0.002	3.56	0.68	20.5	2	1.9	397	0.75	0.20	6.3	0.535	2.46
M388764		1200	19.9	157.5	<0.002	1.99	0.40	16.9	2	2.5	233	0.94	0.08	14.6	0.454	1.70
M388765		1020	20.9	165.5	<0.002	0.26	0.37	15.1	2	2.6	86.4	0.97	0.07	13.9	0.419	1.03
M388766		7070	22.6	170.5	0.013	0.02	0.78	17.2	3	3.2	145.5	1.07	0.07	15.2	0.459	1.09
M388767		190	1.7	1.2	<0.002	<0.01	<0.05	0.2	1	<0.2	48.5	<0.05	<0.05	<0.2	<0.005	<0.02
M388768		5670	23.9	186.5	0.013	0.02	0.78	17.9	3	3.4	177.0	1.06	0.08	15.8	0.453	1.17
M388769		7640	22.0	175.0	0.009	0.03	0.69	17.6	3	3.4	266	1.03	0.07	14.1	0.437	1.20
M388770		9340	20.9	173.5	0.014	0.85	0.79	16.9	4	3.3	197.5	1.01	0.08	14.7	0.449	1.35
M388771		8200	18.6	166.5	0.010	2.01	0.72	16.7	3	3.3	192.0	1.06	0.08	14.3	0.450	1.33
M388772		500	10.2	47.7	0.008	1.31	85.3	4.2	3	2.4	59.6	0.38	0.19	6.2	0.144	2.27
M388773		3090	20.2	159.5	0.014	3.55	1.20	14.7	3	3.1	543	0.85	0.08	12.1	0.340	2.51
M388774		5450	19.7	161.5	0.015	4.19	1.25	14.8	3	3.1	572	0.87	0.08	12.4	0.358	2.87
M388775		3590	19.5	163.5	0.013	3.99	1.12	14.5	3	3.2	409	0.86	0.08	12.3	0.347	3.23
M388776		2440	21.5	167.0	0.011	3.91	1.20	14.5	3	3.3	438	0.89	0.09	13.1	0.350	2.79
M388777		1580	18.0	176.0	0.014	3.96	1.32	17.5	3	3.6	312	0.94	0.08	13.3	0.359	2.72

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M388742		2.4	95	1.5	16.1	95	95.2
M388743		2.6	102	1.6	18.4	93	100.5
M388744		4.0	141	2.0	24.1	111	111.0
M388745		2.6	145	1.2	24.1	88	107.5
M388746		2.9	146	1.3	25.0	91	110.5
M388747		2.4	116	1.1	23.8	76	109.0
M388748		2.8	102	1.2	21.6	83	106.0
M388749		0.6	3	0.1	0.9	12	0.7
M388750		1.8	172	1.0	25.8	86	115.5
M388751		2.5	88	1.3	18.5	83	86.1
M388752		2.8	59	1.0	17.1	70	73.3
M388753		2.7	79	1.2	18.7	71	87.4
M388754		3.1	90	1.4	18.5	83	96.3
M388755		5.9	48	35.5	10.3	25	117.0
M388756		2.4	127	1.3	23.8	79	114.5
M388757		1.8	135	0.9	23.2	70	103.0
M388758		1.7	149	0.8	23.4	78	111.0
M388759		1.4	215	0.8	24.9	91	112.5
M388760		1.4	213	0.8	24.6	90	109.5
M388761		1.4	212	0.8	24.4	89	108.5
M388762		1.3	181	0.9	22.8	82	99.7
M388763		1.8	163	1.9	22.4	78	104.5
M388764		2.9	104	1.7	24.0	89	120.5
M388765		2.8	88	1.6	20.2	88	109.5
M388766		6.1	186	3.0	39.8	101	108.5
M388767		0.5	2	0.1	0.8	13	0.5
M388768		6.2	190	2.0	40.1	110	109.5
M388769		5.8	199	2.0	39.9	114	105.5
M388770		6.3	193	2.1	43.7	72	112.0
M388771		6.2	175	2.1	41.2	76	113.5
M388772		5.7	84	64.0	15.1	63	49.2
M388773		4.9	178	3.5	32.6	99	94.3
M388774		6.2	175	4.3	41.8	80	98.1
M388775		5.6	166	3.8	38.3	80	97.7
M388776		4.7	176	4.0	29.7	79	99.8
M388777		4.3	189	4.1	24.7	114	101.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: Appendix 1  
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Finalized Date: 30- SEP- 2012  
Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223869**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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Page: 1  
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**CERTIFICATE WH12223890**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 368  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 1- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223890**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M388778		4.45	<0.01	0.15	7.30	343	510	3.18	0.46	2.39	0.43	77.6	18.7	69	23.8	57.2
M388779		<0.02	<0.01	0.14	7.45	336	610	3.01	0.46	2.37	0.50	76.8	18.7	72	23.5	57.1
M388780		9.20	<0.01	0.13	7.42	219	540	2.96	0.47	2.34	0.26	78.9	18.3	74	21.2	55.6
M388781		11.72	<0.01	0.16	7.26	344	720	2.88	0.48	2.73	0.35	78.0	18.8	72	18.95	57.2
M388782		10.72	<0.01	0.14	7.58	315	570	2.97	0.45	2.07	0.37	80.1	19.3	71	19.70	55.9
M388783		10.92	<0.01	0.11	7.07	118.0	480	3.08	0.47	3.97	0.33	81.7	19.0	61	27.8	51.9
M388784		6.12	<0.01	0.14	7.94	119.0	290	3.15	0.50	2.55	0.42	82.3	22.1	70	27.9	58.2
M388785		10.72	<0.01	0.15	7.43	114.5	280	3.07	0.43	3.29	0.71	76.4	19.5	69	28.0	50.7
M388786		11.61	<0.01	0.16	7.95	85.3	330	3.36	0.46	2.34	0.36	80.4	21.0	74	32.1	61.4
M388787		11.69	<0.01	0.15	7.80	159.0	340	3.27	0.48	2.58	0.32	79.0	21.2	67	28.7	58.7
M388788		10.74	<0.01	0.10	6.55	83.1	330	2.74	0.34	5.91	0.28	75.0	17.2	52	29.3	45.8
M388789		11.67	<0.01	0.12	7.32	101.5	510	2.95	0.35	4.33	0.29	84.4	18.0	63	29.3	51.0
M388790		10.55	<0.01	0.09	7.35	99.1	540	3.20	0.29	3.49	0.14	78.4	14.8	61	30.9	37.3
M388791		11.29	<0.01	0.08	7.24	40.6	460	2.81	0.34	4.04	0.16	90.7	16.7	63	32.5	38.1
M388792		0.26	4.25	0.76	2.60	437	760	0.62	0.41	9.82	0.52	42.1	4.8	40	2.55	30.5
M388793		5.40	<0.01	0.10	7.98	41.8	450	2.95	0.38	2.67	0.25	94.4	16.8	70	36.3	38.9
M388794		8.68	<0.01	0.10	7.51	103.0	480	2.96	0.38	2.96	0.36	94.3	17.4	61	31.9	40.9
M388795		5.34	<0.01	0.09	7.84	2170	390	2.80	0.27	2.92	0.30	103.0	14.7	59	28.1	36.9
M388796		4.64	0.03	0.21	6.44	>10000	320	1.97	0.25	4.21	0.06	85.7	12.5	46	20.7	32.5
M388797		6.85	<0.01	0.01	0.05	80	20	0.07	0.02	20.7	0.05	1.17	0.9	<1	0.14	1.9
M388798		0.26	4.20	0.80	2.61	476	760	0.70	0.54	9.92	0.55	42.9	5.1	41	2.62	31.3
M388799		10.74	<0.01	0.09	5.84	214	340	1.89	0.26	3.54	0.11	61.1	14.8	56	31.9	41.6
M388800		11.54	<0.01	0.08	6.78	49.9	410	1.96	0.29	1.87	0.11	71.0	17.5	66	34.1	48.9
M388801		9.69	<0.01	0.08	6.28	83.7	450	1.74	0.26	1.22	0.12	64.3	16.7	67	33.9	47.8
M388802		4.89	<0.01	0.08	6.40	79.0	440	1.77	0.26	1.23	0.11	64.5	17.5	66	34.3	50.3
M388803		11.07	<0.01	0.08	7.04	68.0	280	2.12	0.31	0.99	0.18	74.6	18.6	73	46.7	53.8
M388804		12.40	<0.01	0.06	6.43	117.5	270	1.67	0.27	1.78	0.10	61.2	18.5	65	45.0	60.0
M388805		11.92	<0.01	0.07	4.74	27.4	210	1.26	0.19	1.39	0.23	45.3	16.6	63	36.4	47.4
M388806		11.54	<0.01	0.06	5.17	63.2	210	1.39	0.19	1.57	0.22	48.3	17.5	67	35.3	54.3
M388807		10.25	<0.01	0.04	2.87	265	270	0.65	0.11	3.09	0.07	28.2	10.0	47	11.35	31.1
M388808		6.52	<0.01	1.11	3.37	280	150	0.86	0.12	2.93	0.09	34.3	10.9	53	14.60	39.6
M388809		6.24	0.05	0.03	2.93	3350	140	0.56	0.09	1.73	0.06	25.6	10.1	53	7.77	32.2
M388810		3.35	0.19	0.07	5.71	5020	210	1.07	0.20	0.19	0.10	47.7	17.0	81	16.95	55.7
M388811		4.91	<0.01	0.01	0.04	7	20	<0.05	0.02	19.85	0.05	0.97	1.1	<1	0.13	1.5
M388812		2.79	0.24	0.05	3.96	2250	270	0.68	0.13	0.69	0.09	32.3	12.0	62	9.08	41.9
M388813		5.84	0.50	0.03	3.68	2520	150	0.70	0.11	3.02	0.08	32.1	10.1	54	11.15	41.5



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 Finalized Date: 1- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223890**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M388778		4.58	20.5	0.17	2.8	1.72	0.079	3.26	37.5	77.1	1.32	402	5.53	0.04	11.2	45.4
M388779		4.72	20.0	0.18	2.8	1.81	0.083	3.30	36.5	76.7	1.32	401	5.62	0.04	11.2	45.1
M388780		4.56	20.4	0.19	2.8	1.90	0.071	3.39	38.3	58.0	1.23	406	6.02	0.04	11.5	45.6
M388781		4.60	20.1	0.18	2.7	1.75	0.076	3.33	37.8	31.2	1.52	553	5.31	0.04	11.2	44.8
M388782		4.66	21.0	0.19	2.9	1.96	0.072	3.47	39.0	24.0	1.19	446	6.49	0.04	11.4	44.5
M388783		5.07	19.45	0.18	2.7	1.57	0.068	3.24	40.2	86.7	2.05	1360	4.77	0.05	10.8	41.7
M388784		4.45	22.2	0.21	2.9	1.22	0.074	3.61	39.4	90.2	1.55	759	6.35	0.05	11.9	44.3
M388785		4.87	20.8	0.18	2.6	1.74	0.074	3.55	37.7	75.5	1.60	1000	7.26	0.05	10.9	44.2
M388786		4.95	22.3	0.18	2.9	1.53	0.078	3.69	40.0	56.3	1.29	771	6.22	0.05	11.7	46.3
M388787		4.83	21.6	0.19	2.8	1.31	0.076	3.61	38.3	65.4	1.51	1070	5.36	0.05	11.4	44.4
M388788		4.95	17.50	0.17	2.4	1.20	0.060	3.02	37.2	55.2	2.95	1670	4.87	0.04	9.7	36.6
M388789		4.31	19.80	0.17	2.8	1.21	0.069	3.42	42.1	45.9	2.25	1360	3.36	0.04	11.4	41.0
M388790		4.05	20.1	0.19	2.8	1.76	0.068	3.43	40.4	40.2	1.93	923	3.12	0.04	11.1	35.6
M388791		3.81	20.0	0.17	2.8	0.77	0.066	3.33	45.4	31.6	2.46	945	2.45	0.04	11.5	35.3
M388792		1.79	5.93	0.09	1.4	4.78	0.021	0.81	24.1	54.5	4.87	339	9.70	0.01	5.6	29.8
M388793		3.77	22.5	0.17	2.9	0.67	0.065	3.80	45.1	30.1	1.95	538	2.58	0.05	13.0	36.3
M388794		3.87	20.7	0.18	2.8	1.51	0.070	3.52	46.9	35.0	1.75	598	2.73	0.04	12.0	35.8
M388795		3.94	22.6	0.20	3.3	2.40	0.069	3.82	49.2	17.2	1.72	538	3.77	0.04	13.4	35.5
M388796		3.72	17.10	0.18	2.3	5.24	0.104	3.06	43.7	12.7	2.47	1120	3.26	0.03	9.8	25.6
M388797		0.47	0.18	<0.05	<0.1	<0.01	<0.005	0.02	0.5	0.9	12.45	207	0.44	<0.01	0.2	2.4
M388798		1.80	6.28	0.09	1.4	4.66	0.022	0.83	24.6	63.7	4.84	343	10.10	0.01	5.8	31.3
M388799		4.25	15.40	0.13	3.0	2.03	0.055	2.87	30.1	49.2	2.13	527	0.54	0.04	11.1	29.8
M388800		4.90	17.75	0.17	3.2	0.94	0.071	3.30	33.8	48.5	1.56	301	0.58	0.04	12.1	35.1
M388801		4.82	16.50	0.16	3.1	0.50	0.063	3.09	31.2	49.5	1.45	212	0.64	0.03	11.2	35.2
M388802		4.98	16.50	0.17	3.1	0.48	0.063	3.10	31.6	50.2	1.48	217	0.65	0.03	11.3	35.8
M388803		5.20	18.95	0.18	3.5	0.36	0.074	3.42	36.4	43.3	1.48	195	0.74	0.04	12.3	39.8
M388804		4.91	16.60	0.11	3.2	1.55	0.064	3.03	30.0	34.9	1.65	346	0.77	0.04	10.7	38.5
M388805		3.84	11.80	0.13	2.3	0.44	0.044	2.23	22.1	29.0	1.25	257	0.74	0.04	7.6	37.1
M388806		3.12	13.00	0.11	2.6	0.85	0.052	2.41	23.8	32.6	1.26	248	0.53	0.03	8.4	42.9
M388807		2.36	7.13	0.08	1.5	0.96	0.022	1.24	13.7	19.8	1.50	433	0.38	0.02	4.8	22.4
M388808		2.41	8.73	0.08	1.9	1.60	0.031	1.49	16.8	18.7	1.41	445	0.37	0.02	5.8	23.9
M388809		2.24	7.12	0.06	1.6	2.21	0.021	1.22	12.3	11.2	0.89	355	0.36	0.01	4.7	21.8
M388810		2.51	14.80	0.10	2.9	3.46	0.037	2.52	23.3	13.4	0.38	55	0.57	0.02	9.2	34.5
M388811		0.45	0.18	<0.05	<0.1	<0.01	<0.005	0.02	0.5	0.7	11.95	202	0.13	<0.01	0.3	2.0
M388812		3.21	9.89	0.06	2.0	3.68	0.037	1.80	15.5	9.0	0.53	213	0.46	0.01	6.0	26.0
M388813		2.46	9.33	0.05	1.7	2.00	0.024	1.65	15.3	9.2	1.56	1330	0.46	0.02	5.7	23.9



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223890**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M388778		2510	18.5	165.0	0.014	4.25	1.27	16.3	3	3.2	325	0.87	0.09	12.2	0.355	3.12
M388779		2570	18.6	163.0	0.013	4.39	1.24	16.0	3	3.3	332	0.86	0.09	12.2	0.358	3.11
M388780		3240	19.6	169.0	0.014	4.26	1.20	16.4	3	3.3	276	0.89	0.07	12.8	0.361	3.09
M388781		2330	19.7	168.0	0.013	4.14	1.27	16.1	3	3.3	367	0.85	0.06	12.6	0.354	3.18
M388782		2700	19.2	172.5	0.011	4.47	1.48	16.3	3	3.3	335	0.88	0.07	12.7	0.354	4.23
M388783		2400	21.2	154.5	0.011	4.10	1.31	14.8	3	3.2	192.0	0.86	0.08	12.7	0.325	4.44
M388784		1930	20.6	161.0	0.013	3.98	1.22	16.3	2	3.5	314	0.91	0.09	13.2	0.357	5.07
M388785		2790	19.0	159.5	0.013	4.51	1.37	15.8	3	3.3	193.0	0.81	0.07	12.2	0.343	6.61
M388786		2080	21.5	177.5	0.011	4.77	1.38	16.3	3	3.5	141.5	0.89	0.08	13.1	0.346	6.74
M388787		1260	21.6	165.5	0.011	4.57	1.50	16.0	3	3.4	181.0	0.89	0.10	12.4	0.337	5.22
M388788		2390	17.0	145.0	0.011	4.36	1.09	13.5	2	2.8	181.5	0.75	0.07	11.3	0.290	4.76
M388789		2050	16.7	162.0	0.012	3.93	0.94	15.0	2	3.0	173.0	0.88	0.07	13.3	0.348	4.66
M388790		1190	15.2	160.0	0.007	3.59	0.94	15.2	2	3.1	159.5	0.85	0.05	13.3	0.341	6.16
M388791		1250	17.5	164.0	0.006	2.31	0.86	14.6	2	3.1	158.5	0.87	0.05	14.5	0.324	2.77
M388792		520	9.1	44.2	0.008	1.38	85.0	4.4	2	2.4	56.0	0.37	0.16	5.9	0.146	2.30
M388793		1160	19.4	148.5	0.007	1.99	0.97	14.9	2	3.4	155.0	0.98	0.06	15.2	0.364	2.76
M388794		1250	20.6	154.0	0.005	3.07	0.96	14.3	2	3.1	199.5	0.91	0.08	15.4	0.343	3.30
M388795		770	23.3	132.5	0.009	3.57	3.27	14.9	2	2.7	160.0	1.05	<0.05	17.5	0.348	4.14
M388796		340	21.1	127.0	0.008	5.47	26.1	11.7	3	1.8	135.0	0.73	<0.05	13.7	0.260	7.73
M388797		180	1.1	1.0	<0.002	0.02	<0.05	0.2	1	<0.2	45.8	<0.05	<0.05	<0.2	<0.005	<0.02
M388798		510	9.2	46.3	0.008	1.38	87.7	4.8	3	2.5	58.5	0.38	0.21	5.9	0.148	2.31
M388799		500	20.0	132.5	<0.002	3.72	0.77	15.1	1	1.8	145.5	0.79	0.05	10.1	0.450	3.24
M388800		420	22.6	155.0	<0.002	4.20	0.53	18.5	1	2.2	157.5	0.86	0.06	11.0	0.509	3.46
M388801		380	21.3	142.0	0.002	3.47	0.54	17.5	1	2.0	139.0	0.80	0.05	10.1	0.486	2.96
M388802		390	21.4	143.5	0.002	3.56	0.52	17.9	2	2.2	136.5	0.80	0.06	10.4	0.488	2.94
M388803		400	23.3	170.5	0.002	3.66	0.61	20.4	2	2.3	86.5	0.86	0.07	11.3	0.522	3.53
M388804		440	29.1	156.5	0.002	3.73	0.64	17.6	2	2.1	100.5	0.76	0.07	9.1	0.486	4.01
M388805		310	24.7	120.0	<0.002	2.49	0.41	14.6	1	1.4	74.5	0.54	0.08	6.3	0.422	1.77
M388806		330	20.6	124.0	0.002	1.71	0.44	15.8	2	1.5	74.1	0.61	0.05	7.1	0.474	1.97
M388807		250	8.5	61.8	<0.002	1.25	0.50	9.0	1	0.8	167.5	0.34	<0.05	3.9	0.311	1.79
M388808		300	6.4	77.2	<0.002	1.20	0.86	11.2	1	1.1	116.0	0.43	<0.05	4.6	0.366	2.89
M388809		240	4.5	62.5	<0.002	1.68	4.28	8.5	1	0.9	95.0	0.33	<0.05	3.6	0.341	6.69
M388810		300	9.5	117.0	<0.002	2.59	8.75	11.9	1	1.5	73.8	0.66	0.05	7.2	0.549	10.65
M388811		160	1.2	0.9	<0.002	<0.01	<0.05	0.2	1	<0.2	45.8	<0.05	<0.05	<0.2	<0.005	0.02
M388812		310	7.8	85.0	<0.002	3.09	7.39	8.5	1	1.1	101.0	0.43	<0.05	4.6	0.400	10.60
M388813		270	8.4	81.9	<0.002	1.58	5.57	12.2	1	1.0	112.5	0.41	<0.05	4.3	0.361	6.85



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223890**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
M388778		5.1	195	3.0	33.2	135	100.5	
M388779		5.1	194	2.9	32.9	148	99.0	
M388780		5.6	203	2.9	36.8	97	101.5	
M388781		4.9	206	3.6	31.1	104	99.3	
M388782		5.4	186	3.8	36.2	115	101.5	
M388783		5.0	173	2.4	36.6	111	93.8	
M388784		4.8	196	2.4	29.3	118	102.5	
M388785		5.5	199	2.4	36.9	161	97.0	
M388786		5.0	192	2.8	34.6	113	104.5	
M388787		4.3	177	3.4	28.1	110	99.2	
M388788		4.9	150	2.3	29.8	100	86.4	
M388789		4.7	159	2.6	30.7	108	100.0	
M388790		3.6	150	2.7	24.1	84	101.0	
M388791		3.6	132	2.2	26.9	76	101.5	
M388792		5.2	93	65.2	14.7	68	49.8	
M388793		3.4	145	2.2	24.8	114	104.0	
M388794		3.5	133	2.2	25.6	156	102.0	
M388795		3.9	154	8.5	22.3	125	111.0	
M388796		3.2	107	7.2	17.9	37	84.2	6.24
M388797		0.7	2	0.1	0.8	13	<0.5	
M388798		5.4	94	67.4	15.5	71	53.2	
M388799		2.1	117	2.4	20.3	73	105.5	
M388800		2.4	136	1.5	23.1	84	117.0	
M388801		2.2	136	1.5	20.5	82	109.5	
M388802		2.3	135	1.5	20.6	79	109.5	
M388803		2.5	154	1.6	22.2	111	125.5	
M388804		2.1	134	1.2	21.1	68	113.5	
M388805		1.4	125	0.8	15.0	111	82.8	
M388806		1.6	136	1.0	16.4	123	92.8	
M388807		0.9	84	1.1	9.7	49	54.8	
M388808		1.0	99	7.7	12.4	49	65.7	
M388809		0.8	94	5.8	9.5	38	53.4	
M388810		1.6	170	9.2	15.6	60	96.7	
M388811		1.0	2	0.1	0.7	12	<0.5	
M388812		1.0	113	6.0	11.5	50	68.4	
M388813		0.9	97	4.8	11.8	40	62.5	



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223890**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12223891**

Project: Rackla Gold (Area B)  
 P.O. No.: 12-370  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
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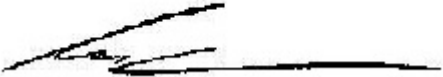
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223891**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M388814		4.72	0.09	0.07	4.84	1265	220	0.86	0.16	1.65	0.10	43.9	14.9	69	11.05	43.2
M388815		4.22	0.04	0.03	3.67	3170	150	0.73	0.10	1.60	0.08	33.5	11.7	63	8.67	33.1
M388816		3.77	0.14	0.06	3.92	4420	380	0.68	0.13	0.32	0.08	39.7	16.7	67	8.79	30.8
M388817		4.90	<0.01	0.01	0.52	8.9	20	0.14	0.02	0.11	<0.02	15.40	0.4	6	0.34	1.8
M388818		4.68	0.25	0.04	2.92	4420	150	0.59	0.10	0.64	0.08	27.3	8.5	58	6.34	30.0
M388819		4.28	0.57	0.06	3.71	5150	140	0.75	0.12	2.32	0.09	36.8	16.1	60	10.85	32.7
M388820		3.44	1.97	0.11	5.53	>10000	260	1.41	0.24	7.33	0.12	61.0	19.3	51	19.55	43.9
M388821		6.14	2.55	0.10	3.32	>10000	130	0.84	0.15	8.62	0.14	37.9	10.3	32	11.75	30.9
M388822		2.21	0.22	0.12	5.50	5080	200	1.28	0.22	0.69	0.37	55.5	21.8	73	18.40	51.5
M388823		6.72	0.40	0.08	3.60	>10000	160	0.87	0.15	4.40	0.36	40.6	11.5	41	10.40	31.0
M388824		0.20	4.11	0.75	2.82	460	790	0.70	0.60	9.71	0.58	49.1	5.1	41	2.66	31.2
M388825		7.26	0.71	0.09	5.66	4490	190	1.47	0.25	3.42	0.17	64.7	13.9	53	20.1	40.3
M388826		7.52	0.51	0.10	4.61	2860	180	1.24	0.20	5.81	0.14	55.8	11.0	44	16.15	28.2
M388827		8.55	1.47	0.13	5.66	2660	270	1.59	0.25	2.83	0.15	67.9	12.9	54	19.55	34.5
M388828		<0.02	1.54	0.13	5.69	2640	270	1.65	0.25	2.83	0.14	67.8	13.6	58	19.80	35.3
M388829		6.92	0.69	0.12	5.33	1550	250	1.52	0.22	3.76	0.10	62.2	12.6	53	18.55	30.7
M388830		3.18	0.44	0.11	5.30	2020	220	1.54	0.23	4.19	0.08	61.7	12.6	55	18.25	31.6
M388831		8.14	0.05	0.12	6.61	905	230	2.27	0.28	2.81	0.09	78.2	14.3	66	27.7	35.8
M388832		8.71	0.13	0.17	6.95	6660	210	2.10	0.31	2.38	0.21	74.6	17.9	76	26.2	54.1
M388833		8.11	0.01	0.15	7.27	827	230	2.29	0.33	2.12	0.23	84.5	18.7	80	29.3	55.0
M388834		8.67	0.12	0.11	4.90	4830	230	1.44	0.21	6.58	0.17	55.6	12.9	51	17.00	38.4
M388835		7.60	0.02	0.10	6.95	6290	280	2.12	0.30	2.19	0.18	74.5	17.6	66	25.3	57.1
M388836		4.91	<0.01	0.01	0.05	22	10	0.06	0.02	20.0	0.06	1.31	1.1	<1	0.14	2.9
M388837		7.41	0.04	0.17	6.66	>10000	240	1.95	0.31	2.65	0.16	76.7	20.5	65	22.8	55.2
M388838		3.83	0.11	0.12	7.02	3130	220	1.97	0.32	2.63	0.20	81.6	21.0	67	23.0	61.3
M388839		3.50	0.01	0.08	8.05	1010	220	2.51	0.37	1.58	0.20	89.0	20.0	75	31.3	62.9
M388840		0.20	16.20	0.97	1.77	1130	200	0.36	0.54	14.25	0.65	31.6	3.5	33	2.38	58.2
M388841		8.73	0.03	0.08	7.20	1080	250	1.94	0.32	1.38	0.04	77.5	20.3	71	28.8	63.1
M388842		7.17	0.01	0.09	7.03	1180	230	1.94	0.32	1.69	0.16	75.3	17.9	70	29.6	60.6
M388843		6.85	0.04	0.08	5.94	1740	220	1.64	0.26	1.96	0.04	63.4	18.2	62	25.2	56.2
M388844		7.45	0.08	0.08	6.31	2340	210	1.67	0.26	2.77	0.04	66.3	18.7	66	25.1	55.1
M388845		7.83	0.08	0.09	6.03	1430	200	1.64	0.24	3.87	0.03	64.6	17.4	59	21.0	49.7
M388846		7.92	0.02	0.06	6.89	358	210	1.85	0.33	2.62	0.03	70.0	17.2	64	24.4	60.2
M388847		7.41	<0.01	0.09	6.19	133.0	200	1.67	0.25	2.90	0.11	64.4	19.7	66	27.4	55.8
M388848		8.32	<0.01	0.09	5.79	323	150	1.71	0.22	3.02	0.15	61.1	19.5	62	26.6	50.8
M388849		7.86	0.14	0.09	6.07	3630	170	1.48	0.24	1.94	0.10	62.0	19.6	68	18.90	56.5

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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223891**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M388814		3.31	12.55	0.06	2.1	2.97	0.039	2.07	21.3	10.4	0.98	489	0.57	0.02	7.4	31.9
M388815		2.15	9.34	0.05	1.6	1.75	0.033	1.55	15.9	9.9	0.93	490	0.34	0.02	5.7	23.6
M388816		2.32	9.50	<0.05	2.0	2.51	0.038	1.49	19.1	13.8	0.32	135	0.39	0.01	6.5	28.7
M388817		0.20	1.34	<0.05	0.2	0.01	<0.005	0.21	7.3	2.7	0.08	10	0.11	0.01	0.8	1.1
M388818		2.47	7.52	<0.05	1.4	2.54	0.036	1.23	13.1	9.1	0.41	188	0.39	0.01	4.6	18.5
M388819		2.04	9.49	<0.05	1.9	2.17	0.037	1.55	18.1	11.3	1.19	800	0.43	0.01	6.1	26.4
M388820		4.36	15.25	0.09	2.8	5.36	0.074	2.41	30.3	13.3	4.04	1560	0.45	0.03	10.1	36.6
M388821		4.14	8.67	0.05	1.6	5.53	0.043	1.37	18.6	12.2	4.72	2980	0.31	0.03	5.8	20.3
M388822		5.10	14.35	0.05	2.6	4.11	0.061	2.36	27.4	12.2	0.62	324	0.81	0.02	9.0	45.0
M388823		3.73	9.50	0.05	1.8	2.95	0.048	1.53	20.3	9.3	2.40	1540	0.45	0.03	6.2	22.8
M388824		1.83	6.40	<0.05	1.3	4.96	0.030	0.80	28.1	58.3	5.06	344	9.75	0.02	6.0	30.8
M388825		3.85	15.25	0.07	2.8	3.24	0.058	2.56	32.3	10.8	1.99	2170	0.61	0.03	10.2	25.0
M388826		4.34	11.75	0.06	2.2	6.32	0.049	2.06	27.9	8.0	2.75	2890	0.64	0.03	7.7	22.6
M388827		3.87	14.45	0.06	2.6	7.11	0.054	2.56	34.0	11.0	1.51	1780	0.64	0.03	9.3	27.2
M388828		3.87	14.95	0.07	2.6	7.05	0.053	2.55	34.2	11.1	1.52	1800	0.68	0.02	9.6	29.3
M388829		3.80	13.60	0.07	2.4	6.98	0.052	2.34	31.1	11.4	1.81	1540	0.62	0.02	8.9	26.2
M388830		3.79	13.70	0.07	2.4	6.66	0.052	2.34	30.5	11.3	1.98	1700	0.59	0.02	8.9	25.8
M388831		3.86	17.70	0.09	2.9	4.57	0.069	2.97	38.5	17.1	1.57	813	0.70	0.04	11.2	29.9
M388832		5.10	19.25	0.11	3.1	9.07	0.077	3.13	36.2	15.4	1.54	845	1.42	0.03	11.8	42.3
M388833		5.63	19.70	0.11	3.4	7.99	0.080	3.31	40.0	18.4	1.49	539	1.39	0.04	12.1	42.9
M388834		4.07	12.85	0.08	2.2	5.62	0.053	2.13	26.9	13.0	3.61	1080	0.75	0.03	8.4	27.3
M388835		4.55	18.60	0.08	3.4	3.72	0.075	3.01	36.6	16.5	1.50	713	0.62	0.03	11.8	36.1
M388836		0.47	0.24	0.06	<0.1	0.01	<0.005	0.02	0.6	0.9	12.40	203	0.12	0.01	0.2	2.2
M388837		5.42	17.80	0.11	3.2	4.00	0.082	2.91	37.2	16.2	1.55	786	0.71	0.03	11.8	36.8
M388838		5.76	19.05	0.10	3.4	3.62	0.083	3.05	39.7	17.6	1.63	1040	0.98	0.03	13.1	38.2
M388839		5.41	22.0	0.09	3.7	3.06	0.085	3.57	43.8	19.9	1.18	433	1.11	0.03	14.3	40.9
M388840		3.44	3.57	0.09	0.8	5.42	0.051	0.38	17.6	39.5	0.68	446	12.95	0.01	3.5	20.1
M388841		5.57	19.25	0.17	3.4	2.44	0.070	3.36	37.3	19.6	1.02	471	0.55	0.03	13.2	38.5
M388842		5.14	18.75	0.18	3.4	2.91	0.071	3.31	36.2	22.7	1.14	583	0.47	0.03	13.2	37.0
M388843		4.86	15.80	0.16	3.0	2.05	0.059	2.85	30.7	16.7	1.23	965	0.31	0.02	11.4	35.7
M388844		5.07	16.70	0.17	3.1	2.50	0.056	3.07	32.3	16.8	1.56	1280	0.35	0.02	11.8	36.8
M388845		5.14	15.80	0.15	3.0	1.87	0.067	2.96	31.5	16.4	2.03	1460	0.30	0.02	11.4	34.3
M388846		4.94	17.70	0.22	3.5	0.76	0.065	3.15	32.4	18.2	1.56	838	0.30	0.03	10.6	38.8
M388847		4.74	16.00	0.16	3.1	0.51	0.065	2.80	31.2	34.0	1.59	644	0.37	0.02	11.3	37.6
M388848		4.93	15.10	0.15	2.9	1.18	0.060	2.77	29.4	18.4	1.61	793	0.64	0.02	10.9	36.0
M388849		5.53	15.45	0.17	2.9	4.00	0.058	2.87	30.1	13.4	1.15	564	0.38	0.02	10.9	36.3

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 Finalized Date: 30- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223891**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M388814		310	10.9	107.0	<0.002	2.86	4.20	14.8	1	1.3	115.5	0.52	0.05	6.6	0.408	9.05
M388815		300	4.3	84.8	<0.002	1.78	4.55	12.3	1	1.0	80.1	0.39	<0.05	5.1	0.368	5.57
M388816		400	7.5	81.1	<0.002	2.33	7.00	6.9	2	1.1	116.5	0.47	<0.05	6.1	0.414	8.47
M388817		20	0.9	7.0	<0.002	0.01	0.18	0.9	1	<0.2	6.2	<0.05	<0.05	3.0	0.030	0.07
M388818		300	5.0	66.5	<0.002	2.36	6.27	6.1	1	0.8	71.3	0.32	<0.05	4.2	0.327	8.21
M388819		230	7.3	81.9	<0.002	1.43	6.52	14.5	1	1.0	101.0	0.44	<0.05	5.5	0.375	6.32
M388820		390	20.8	136.5	<0.002	3.93	37.1	17.3	2	1.7	152.0	0.72	0.06	9.4	0.423	20.5
M388821		310	19.3	79.8	<0.002	3.22	21.4	13.9	1	1.1	150.5	0.41	<0.05	5.6	0.261	19.80
M388822		290	48.2	129.0	<0.002	5.28	9.49	16.1	2	1.7	57.4	0.64	0.06	9.0	0.432	10.60
M388823		310	21.5	85.4	<0.002	3.81	9.80	9.8	1	1.2	124.0	0.45	<0.05	6.2	0.298	7.75
M388824		510	10.1	52.4	0.009	1.40	93.1	5.0	3	2.7	60.2	0.40	0.23	7.3	0.149	2.59
M388825		380	16.7	147.5	<0.002	3.50	8.28	17.2	2	1.8	101.0	0.74	0.06	10.1	0.427	10.45
M388826		340	24.6	124.0	0.002	2.87	7.49	13.7	2	1.4	138.5	0.55	<0.05	8.4	0.302	20.1
M388827		380	20.4	151.0	0.002	3.17	8.40	15.8	2	1.8	106.5	0.67	<0.05	10.5	0.371	22.5
M388828		380	19.9	153.0	0.002	3.18	8.47	16.6	2	1.7	108.0	0.69	<0.05	10.5	0.372	22.1
M388829		360	16.9	140.5	0.002	2.60	5.57	14.5	2	1.7	108.0	0.63	<0.05	9.5	0.345	22.8
M388830		360	17.0	138.5	0.002	2.53	5.35	14.9	2	1.7	112.0	0.63	<0.05	9.5	0.344	21.6
M388831		410	20.4	180.5	0.002	3.02	2.77	18.7	2	2.1	84.2	0.78	0.05	12.1	0.422	13.15
M388832		530	21.2	183.0	0.005	4.98	11.25	20.7	3	2.3	82.3	0.82	0.06	11.9	0.491	25.4
M388833		500	20.6	195.0	0.005	5.48	4.01	22.4	3	2.4	85.3	0.88	0.08	12.6	0.505	24.3
M388834		570	14.3	130.0	0.002	3.25	7.57	13.9	2	1.6	149.0	0.58	0.05	8.2	0.346	15.30
M388835		520	20.4	178.5	0.002	4.47	9.10	20.7	2	2.2	101.0	0.84	0.06	11.9	0.485	11.45
M388836		170	1.2	1.1	<0.002	0.01	<0.05	0.2	1	<0.2	49.9	<0.05	<0.05	0.2	<0.005	0.03
M388837		520	22.1	174.5	<0.002	5.27	13.50	21.3	2	2.2	126.5	0.84	0.07	12.0	0.492	10.65
M388838		500	15.9	183.0	<0.002	5.45	8.20	22.4	2	2.4	114.5	0.93	0.06	12.6	0.527	13.75
M388839		520	19.0	210	<0.002	5.15	3.50	23.8	2	2.7	83.3	1.03	0.06	14.4	0.588	9.64
M388840		630	20.2	23.5	0.006	1.80	150.0	3.5	2	1.8	45.5	0.23	0.34	3.4	0.106	3.29
M388841		630	19.7	182.5	<0.002	5.53	3.67	20.7	1	2.5	84.4	0.93	0.05	11.6	0.554	5.98
M388842		600	19.0	179.0	<0.002	4.92	3.29	19.8	1	2.3	85.7	0.93	0.06	11.7	0.566	6.70
M388843		510	14.9	154.5	<0.002	4.71	4.30	18.3	1	2.0	88.6	0.80	0.05	9.6	0.520	7.12
M388844		490	15.3	161.0	<0.002	4.66	5.69	19.1	1	2.1	92.5	0.83	0.05	10.3	0.535	6.82
M388845		510	14.7	146.5	<0.002	4.31	3.46	17.8	1	2.0	139.5	0.79	0.05	9.6	0.505	5.08
M388846		540	13.0	173.5	<0.002	4.62	1.46	19.2	2	2.2	103.5	0.84	0.10	11.6	0.553	4.20
M388847		520	17.6	143.0	<0.002	4.22	0.49	18.3	1	1.9	122.5	0.79	0.05	9.7	0.543	3.41
M388848		500	17.4	142.0	<0.002	4.42	0.99	17.6	1	1.8	88.6	0.74	0.06	9.1	0.520	3.90
M388849		530	15.7	137.0	<0.002	5.31	4.43	17.5	1	1.8	82.2	0.76	0.05	9.2	0.545	12.75

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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12223891**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.1	1	0.1	0.1	2	0.5	0.001
M388814		1.2	130	8.4	14.2	55	77.5	
M388815		1.0	120	11.0	11.6	42	62.1	
M388816		1.2	119	12.7	12.0	48	70.5	
M388817		0.4	4	0.1	1.2	<2	7.0	
M388818		0.8	99	6.9	9.8	40	51.5	
M388819		1.1	120	5.5	11.6	48	68.1	
M388820		1.8	121	7.0	19.9	48	104.5	2.61
M388821		1.1	70	4.6	13.3	39	62.1	1.085
M388822		1.7	133	8.0	15.9	111	90.3	
M388823		1.2	85	6.4	13.2	113	68.2	1.015
M388824		6.0	94	70.8	15.2	72	51.9	
M388825		1.9	117	8.4	20.0	73	99.3	
M388826		1.9	80	5.7	17.2	58	80.6	
M388827		2.3	100	6.4	17.7	58	93.6	
M388828		2.2	100	6.5	18.2	56	95.7	
M388829		2.1	91	5.1	18.3	44	90.5	
M388830		2.1	91	5.1	18.6	40	89.5	
M388831		2.5	111	5.4	21.8	66	107.0	
M388832		2.8	149	8.0	23.0	80	115.5	
M388833		3.0	153	8.0	24.5	104	120.0	
M388834		1.8	101	6.4	17.7	74	85.9	
M388835		2.3	136	8.8	22.8	107	112.5	
M388836		0.7	2	0.1	0.8	15	<0.5	
M388837		2.3	136	8.9	24.9	100	112.5	1.315
M388838		2.3	139	9.6	26.0	104	123.0	
M388839		2.6	159	9.2	27.8	133	134.0	
M388840		3.2	109	202	16.1	74	30.2	
M388841		2.4	150	8.8	27.6	68	123.0	
M388842		2.4	154	7.3	26.1	102	124.0	
M388843		2.0	140	7.4	22.0	69	105.5	
M388844		2.1	146	8.3	22.5	62	112.5	
M388845		2.0	136	9.1	21.9	68	106.5	
M388846		2.4	134	6.2	23.9	70	115.5	
M388847		2.0	147	3.3	22.5	93	110.0	
M388848		1.9	143	5.2	21.6	94	106.0	
M388849		1.9	148	14.2	21.4	78	106.0	



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**CERTIFICATE OF ANALYSIS WH12223891**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12226812**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 371  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226812**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M388850		8.01	0.18	0.08	6.23	6020	170	1.27	0.23	2.75	0.09	67.0	20.3	70	17.05	58.3
M396801		8.24	0.01	0.07	6.43	331	210	1.41	0.24	2.93	0.09	68.4	21.5	68	20.6	59.0
M396802		8.20	0.05	0.07	6.87	172.0	230	1.62	0.27	2.79	0.04	71.1	23.1	72	22.8	62.7
M396803		8.22	0.04	0.06	6.48	1545	200	1.57	0.24	3.35	0.10	70.9	19.9	66	24.0	57.6
M396804		7.92	2.15	0.08	5.79	1925	270	1.43	0.25	1.46	0.28	72.0	13.4	59	23.3	38.8
M396805		7.95	1.00	0.08	5.83	1015	190	1.53	0.24	1.90	0.16	68.9	14.2	58	24.2	37.5
M396806		7.76	2.95	0.09	3.62	2600	160	1.04	0.16	1.64	0.17	47.1	11.1	42	13.85	30.7
M396807		8.01	0.43	0.10	7.22	737	390	1.79	0.29	2.61	0.27	81.0	25.2	67	28.2	50.2
M396808		8.22	<0.01	0.06	7.52	67.4	340	1.89	0.30	2.05	0.13	80.2	19.6	75	60.6	61.1
M396809		0.26	0.30	0.79	1.89	458	630	0.38	0.22	1.12	0.41	41.6	4.4	80	2.23	42.6
M396810		7.73	0.01	0.07	7.37	122.0	270	2.05	0.30	1.84	0.08	81.0	15.2	66	31.5	40.5
M396811		8.56	0.19	0.11	6.52	678	220	1.48	0.27	2.35	0.15	72.8	19.0	65	20.5	43.5
M396812		3.45	0.22	0.10	6.68	892	240	1.62	0.28	2.19	0.20	77.2	19.2	66	21.1	45.2
M396813		7.64	1.04	0.12	5.29	1025	180	1.43	0.23	2.65	0.11	65.1	17.9	64	16.80	35.6
M396814		4.91	<0.01	0.01	0.05	<5	30	<0.05	0.02	21.2	0.05	1.20	1.5	<1	0.13	3.1
M396815		7.05	<0.01	0.12	5.67	30.6	220	1.62	0.24	1.84	0.15	70.6	17.0	60	29.6	38.5
M396816		8.06	<0.01	0.08	6.12	72.0	310	1.82	0.25	2.14	0.23	73.1	14.6	66	32.4	41.5
M396817		4.46	<0.01	0.16	5.41	39.4	190	1.57	0.23	2.27	0.13	67.5	18.2	62	23.1	36.0
M396818		6.67	<0.01	0.09	6.30	60.6	260	1.65	0.26	3.02	0.25	77.1	15.9	62	33.4	38.1
M396819		8.27	<0.01	0.08	6.35	120.0	290	1.77	0.26	2.70	0.13	76.6	14.0	64	38.3	38.9
M396820		5.83	<0.01	0.09	6.14	42.2	250	1.91	0.46	2.09	0.12	73.0	13.6	64	26.6	38.6
M396821		<0.02	<0.01	0.09	6.21	42.4	250	1.87	0.26	2.19	0.11	74.9	14.2	64	27.0	37.8
M396822		4.35	<0.01	0.07	6.12	103.0	390	1.80	0.24	2.08	0.08	65.1	16.2	65	33.6	45.9
M396823		7.28	<0.01	0.07	6.72	129.0	270	1.69	0.26	2.98	0.21	71.7	18.3	72	55.8	55.8
M396824		9.90	<0.01	0.06	3.72	56	180	1.01	0.14	14.90	0.04	49.9	8.8	23	10.75	16.5
M396825		8.61	<0.01	0.08	7.81	91.5	490	1.99	0.32	5.01	0.03	89.8	17.5	60	27.8	32.4
M396826		11.50	<0.01	0.06	6.97	49	270	1.56	0.28	10.45	0.02	87.6	13.4	53	28.9	27.5
M396827		9.59	<0.01	0.07	7.69	44.8	290	1.74	0.30	8.28	0.05	90.6	13.6	56	27.8	28.5
M396828		10.38	0.01	0.07	6.88	102.0	270	1.60	0.28	8.42	0.05	75.8	13.2	51	21.6	26.9
M396829		11.46	<0.01	0.05	5.16	31	230	1.10	0.19	15.00	0.03	69.5	10.6	33	18.75	20.5
M396830		5.07	0.04	0.05	4.03	108	260	0.87	0.15	18.40	0.03	53.0	7.6	26	13.55	18.3
M396831		9.04	0.02	0.08	6.75	164.0	270	1.96	0.28	7.61	0.17	90.7	14.6	48	20.9	29.4
M396832		6.93	<0.01	<0.01	0.06	<5	20	<0.05	0.02	19.75	0.06	1.50	1.6	<1	0.15	2.2
M396833		0.26	4.19	0.75	2.62	400	750	0.55	0.41	9.90	0.49	43.9	5.4	38	2.52	31.4
M396834		11.64	<0.01	0.13	7.99	59.6	290	2.57	0.33	3.48	0.20	98.2	16.4	73	23.3	40.1
M396835		11.23	<0.01	0.09	8.94	31.1	360	2.84	0.36	2.26	0.18	106.0	18.2	70	31.0	39.1



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226812**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M388850		5.24	17.85	0.22	3.3	3.7	0.066	2.73	31.8	13.7	1.52	907	0.51	0.02	11.5	38.7
M396801		5.07	18.35	0.22	3.4	1.2	0.067	2.92	32.3	23.7	1.61	834	0.48	0.03	11.8	39.7
M396802		5.46	19.90	0.24	3.4	0.7	0.075	3.11	33.6	25.2	1.59	766	0.47	0.03	12.6	42.4
M396803		4.54	18.65	0.21	3.5	1.4	0.069	2.95	33.8	16.8	1.69	767	0.42	0.03	12.1	37.6
M396804		3.38	16.95	0.20	3.3	5.1	0.052	2.80	34.3	16.3	0.82	947	0.80	0.02	11.0	29.5
M396805		3.66	15.95	0.21	3.0	2.6	0.055	2.73	33.0	17.5	1.03	772	0.61	0.03	10.5	30.9
M396806		2.87	9.84	0.15	2.1	6.3	0.031	1.71	22.5	14.0	0.74	962	0.50	0.02	6.7	21.6
M396807		4.93	19.80	0.23	3.7	1.7	0.071	3.38	38.5	15.2	1.41	725	0.80	0.03	13.0	40.5
M396808		5.21	21.4	0.24	3.7	0.2	0.078	3.22	38.4	64.1	2.23	599	0.78	0.14	13.6	40.5
M396809		3.72	5.79	0.12	3.6	3.8	0.037	0.43	21.8	28.3	0.06	80	17.15	0.11	8.7	18.7
M396810		4.26	20.0	0.21	3.7	0.4	0.072	3.40	39.7	29.4	1.28	460	0.88	0.03	12.7	33.2
M396811		5.44	18.00	0.23	3.3	1.6	0.067	3.06	35.1	14.1	1.27	633	1.28	0.02	11.1	39.7
M396812		4.90	18.85	0.23	3.4	1	0.068	3.14	36.8	14.3	1.22	604	1.20	0.02	11.4	38.6
M396813		3.75	14.15	0.18	2.8	1.7	0.053	2.54	31.3	15.4	1.26	943	0.89	0.02	9.6	31.1
M396814		0.50	0.22	0.06	<0.1	<0.1	0.006	0.02	0.6	0.8	13.35	220	0.14	<0.01	0.3	3.7
M396815		3.71	15.15	0.18	3.0	0.33	0.059	2.72	33.9	49.6	1.33	399	0.75	0.03	10.1	31.5
M396816		3.73	16.60	0.20	3.2	0.1	0.063	2.87	34.6	64.1	1.55	468	0.74	0.03	10.7	28.6
M396817		4.32	15.15	0.20	3.0	0.1	0.052	2.47	32.1	54.2	1.39	556	0.68	0.03	10.0	40.1
M396818		4.09	17.00	0.20	3.4	<0.1	0.063	2.79	36.4	57.5	1.66	561	0.68	0.04	11.9	31.7
M396819		3.65	17.50	0.19	3.4	<0.1	0.064	2.85	36.8	62.2	1.56	447	0.68	0.04	11.9	30.9
M396820		3.63	16.65	0.20	3.1	0.1	0.061	2.63	34.8	64.9	1.45	410	0.77	0.03	11.1	30.3
M396821		3.64	16.95	0.19	3.2	0.1	0.061	2.66	35.3	66.8	1.49	424	0.80	0.03	11.2	32.1
M396822		3.83	16.85	0.18	3.2	<0.1	0.060	2.51	31.2	73.7	1.55	413	0.62	0.03	10.4	32.4
M396823		4.69	19.20	0.20	3.4	<0.1	0.065	2.83	33.9	78.2	2.06	589	0.77	0.16	11.6	38.7
M396824		3.12	9.84	0.15	1.5	0.1	0.029	1.70	25.3	11.2	2.89	1140	0.42	0.04	5.4	17.0
M396825		3.14	21.7	0.21	2.9	0.1	0.064	3.82	44.9	19.3	0.60	369	0.56	0.06	11.2	35.3
M396826		2.56	20.0	0.17	2.5	0.1	0.056	3.40	45.7	15.4	0.79	358	0.40	0.06	9.9	28.4
M396827		2.70	20.4	0.17	2.6	0.1	0.056	3.54	47.1	16.9	1.03	285	0.40	0.06	10.4	29.4
M396828		2.42	19.05	0.16	2.6	0.1	0.052	3.24	40.2	14.6	1.01	382	0.38	0.06	9.9	26.1
M396829		2.10	13.65	0.16	2.0	0.1	0.039	2.41	35.9	12.4	0.86	311	0.35	0.05	7.4	21.9
M396830		2.03	10.55	0.13	1.6	0.2	0.036	1.87	27.3	8.5	1.56	1180	0.35	0.04	5.9	16.8
M396831		3.27	19.90	0.18	2.6	0.5	0.062	3.09	44.5	21.8	2.01	900	5.55	0.05	10.1	32.0
M396832		0.45	0.23	<0.05	<0.1	<1	<0.005	0.03	0.7	0.8	12.40	211	0.16	<0.01	0.4	4.1
M396833		1.67	6.38	0.11	1.4	5	0.025	0.79	25.2	52.4	4.70	334	10.15	0.01	5.7	32.3
M396834		3.90	23.4	0.21	2.9	0.4	0.070	3.63	46.9	31.4	1.94	521	6.04	0.06	11.7	40.2
M396835		4.00	26.3	0.22	3.2	0.3	0.075	4.05	50.0	34.8	1.79	405	3.34	0.07	13.2	41.2

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226812**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M388850		460	15.2	147.5	<0.002	5.33	14.70	19.4	2	2.2	108.0	0.78	0.06	9.4	0.543	13.50
M396801		520	15.8	153.0	<0.002	4.82	3.38	19.5	2	2.2	130.0	0.80	0.06	9.5	0.545	5.63
M396802		570	16.7	156.0	<0.002	5.26	1.33	20.6	2	2.4	139.0	0.86	0.07	9.9	0.564	3.20
M396803		540	13.4	157.0	<0.002	3.88	6.31	19.8	2	2.2	127.5	0.83	0.06	10.0	0.537	5.48
M396804		450	15.6	151.0	<0.002	3.04	16.60	16.5	2	2.2	78.7	0.77	0.05	10.8	0.417	23.8
M396805		500	18.6	144.5	<0.002	3.23	7.73	15.5	2	2.1	79.1	0.73	0.06	10.6	0.418	11.95
M396806		380	17.9	87.8	<0.002	2.42	27.7	9.6	1	1.6	61.1	0.49	0.05	7.1	0.270	28.7
M396807		600	33.2	176.5	<0.002	4.04	8.20	18.9	2	2.6	121.5	0.92	0.08	11.9	0.509	8.95
M396808		610	25.6	193.5	<0.002	0.69	0.90	21.8	2	2.6	97.3	0.93	0.07	12.0	0.551	1.61
M396809		270	17.7	18.2	<0.002	0.83	65.1	5.5	3	2.8	222	0.53	0.13	4.2	0.327	12.00
M396810		490	18.2	190.5	<0.002	2.93	1.00	17.9	2	2.6	98.2	0.91	0.06	12.5	0.466	3.26
M396811		450	34.1	166.0	0.002	5.08	4.20	16.5	2	2.5	104.5	0.78	0.06	11.1	0.427	6.19
M396812		460	30.5	171.5	0.002	4.52	4.37	17.2	2	2.7	102.5	0.79	0.06	11.3	0.437	6.29
M396813		430	28.8	133.5	0.002	3.12	7.34	13.3	2	2.9	100.5	0.67	0.05	9.9	0.369	8.64
M396814		160	1.2	1.1	<0.002	0.01	<0.05	0.2	1	<0.2	51.9	<0.05	<0.05	<0.2	<0.005	<0.02
M396815		470	20.1	154.0	<0.002	1.31	0.77	13.6	2	2.6	72.5	0.74	0.05	10.3	0.399	1.78
M396816		540	15.4	165.5	<0.002	0.53	0.47	14.6	2	2.5	75.9	0.77	<0.05	10.8	0.421	1.10
M396817		500	45.5	143.5	<0.002	1.47	0.84	14.0	2	2.1	81.2	0.72	0.05	10.1	0.385	1.98
M396818		550	29.8	168.0	<0.002	0.72	0.58	15.2	2	2.2	107.0	0.84	0.05	11.5	0.435	1.09
M396819		540	19.2	172.0	<0.002	0.35	0.46	15.8	2	2.3	104.5	0.82	0.05	11.7	0.436	1.00
M396820		560	23.9	154.0	<0.002	0.74	0.54	14.8	2	2.1	90.7	0.77	0.05	11.0	0.417	1.34
M396821		560	23.2	157.5	<0.002	0.72	0.55	15.3	2	2.2	94.7	0.78	0.05	11.1	0.422	1.29
M396822		470	15.0	150.5	<0.002	0.47	0.45	16.5	1	2.0	86.6	0.74	0.05	9.9	0.448	1.01
M396823		750	19.9	178.0	<0.002	0.45	0.42	20.0	2	2.3	120.5	0.81	0.06	10.5	0.510	1.01
M396824		340	9.5	89.5	0.002	0.21	0.44	6.8	1	1.2	293	0.38	<0.05	6.7	0.165	0.91
M396825		390	21.1	180.5	0.003	0.29	0.67	14.0	2	2.5	164.0	0.82	0.05	12.9	0.346	1.99
M396826		310	17.2	191.0	<0.002	0.80	0.36	12.5	1	2.2	270	0.69	0.05	13.0	0.307	2.06
M396827		320	18.7	190.5	<0.002	1.31	0.42	13.1	2	2.2	255	0.75	<0.05	13.5	0.325	1.96
M396828		410	15.7	158.0	<0.002	1.15	0.80	11.1	1	2.2	246	0.71	0.05	11.7	0.301	2.60
M396829		420	13.2	136.5	<0.002	1.13	0.45	8.7	1	1.6	414	0.53	<0.05	9.2	0.220	1.71
M396830		410	10.3	98.4	<0.002	1.10	0.72	6.4	1	1.2	410	0.40	<0.05	7.4	0.179	1.56
M396831		850	15.9	162.0	0.006	2.31	2.13	13.0	2	2.9	217	0.77	0.05	13.5	0.294	3.56
M396832		170	1.2	1.2	<0.002	0.01	<0.05	0.2	1	<0.2	49.2	<0.05	<0.05	<0.2	<0.005	<0.02
M396833		510	8.9	49.2	0.009	1.31	93.8	4.7	2	2.7	59.2	0.37	0.21	6.0	0.144	2.36
M396834		840	18.1	168.0	0.005	2.04	1.21	14.9	2	3.5	179.5	0.90	0.05	14.8	0.336	2.72
M396835		890	19.3	192.5	0.007	1.70	1.06	17.0	2	3.8	169.5	1.01	0.05	16.7	0.377	2.34





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**CERTIFICATE OF ANALYSIS WH12226812**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M388850		2.0	145	11.8	23.0	74	111.5
M396801		2.0	143	7.2	24.1	82	113.5
M396802		2.1	145	4.7	23.9	73	115.5
M396803		2.1	140	12.1	25.6	78	115.0
M396804		2.4	103	7.7	20.2	106	105.5
M396805		2.3	104	6.2	19.7	76	100.5
M396806		1.6	67	4.4	13.9	45	67.5
M396807		2.6	131	7.4	25.6	124	122.0
M396808		2.5	145	2.0	27.3	90	125.5
M396809		6.0	53	34.8	10.5	31	118.0
M396810		2.7	122	2.4	23.9	81	119.0
M396811		2.4	117	6.1	21.6	88	107.0
M396812		2.5	120	6.2	22.7	112	113.0
M396813		2.2	98	4.6	18.9	50	92.2
M396814		0.7	2	0.1	0.9	15	<0.5
M396815		2.3	102	1.9	20.2	82	99.2
M396816		2.4	107	1.7	21.9	116	103.5
M396817		2.2	99	1.8	20.7	77	97.2
M396818		2.5	105	1.5	23.6	162	113.5
M396819		2.5	108	1.4	23.4	89	114.0
M396820		2.4	105	1.8	22.0	80	104.0
M396821		2.5	106	1.9	22.9	80	106.5
M396822		2.1	118	1.4	20.2	71	103.5
M396823		2.1	138	1.3	25.4	130	109.5
M396824		1.9	39	1.2	12.1	35	48.8
M396825		3.3	73	1.4	18.7	76	95.2
M396826		2.9	65	1.1	17.5	65	85.7
M396827		2.9	68	1.2	17.2	82	87.3
M396828		2.7	63	1.6	16.3	70	87.1
M396829		2.5	45	1.0	14.6	59	65.5
M396830		2.1	37	1.1	12.9	41	54.0
M396831		3.7	109	2.6	24.0	98	87.5
M396832		0.6	2	0.1	0.9	15	0.9
M396833		5.5	91	64.8	15.3	65	50.4
M396834		4.2	138	19.9	25.7	106	95.5
M396835		4.2	156	2.4	28.0	103	105.5



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226812**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**Page: 1  
 Finalized Date: 1- NOV- 2012  
 Account: RCM**

**CERTIFICATE WH12248139**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 371  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12226812\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12248139**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
M388850		0.17
M396801		0.02
M396802		<0.01
M396803		0.03
M396804		2.09
M396805		0.89
M396806		3.03
M396807		0.45
M396808		<0.01
M396809		0.27
M396810		0.01
M396811		0.19
M396812		0.23
M396813		1.06
M396814		<0.01
M396815		<0.01
M396816		<0.01
M396817		<0.01
M396818		<0.01
M396819		<0.01
M396820		<0.01
M396821		<0.01
M396822		<0.01
M396823		<0.01
M396824		<0.01
M396825		<0.01
M396826		<0.01
M396827		<0.01
M396828		0.01
M396829		<0.01
M396830		0.04
M396831		0.02
M396832		<0.01
M396833		4.01
M396834		<0.01
M396835		<0.01

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12226812\*\*



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Page: 1  
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**CERTIFICATE WH12226813**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 373  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

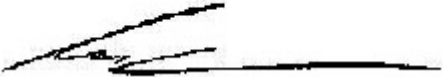
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226813**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398346		10.00	<0.01	0.15	8.21	92.0	500	2.91	0.38	2.15	0.33	86.6	19.7	67	33.3	47.9
M398347		6.24	<0.01	0.10	7.19	60.6	340	1.94	0.28	3.85	0.07	84.7	14.4	57	36.8	35.4
M398348		8.39	<0.01	0.07	6.21	26.9	440	1.44	0.25	7.64	0.09	67.7	12.3	54	24.2	38.2
M398349		9.23	<0.01	0.04	7.20	18.9	460	1.64	0.37	8.53	0.02	67.7	12.5	53	27.9	28.5
M398350		7.98	<0.01	0.03	5.04	18	360	1.19	0.22	19.55	0.02	57.3	7.8	32	20.9	18.6
M398501		8.05	<0.01	0.07	6.95	27.3	350	1.63	0.31	8.75	0.04	84.0	11.7	54	40.3	27.2
M398502		8.29	<0.01	0.07	6.30	23.5	280	1.50	0.28	8.00	0.03	75.4	12.4	54	29.4	32.3
M398503		4.81	<0.01	0.07	6.04	14.9	150	0.95	0.20	5.13	0.29	47.9	29.9	71	10.10	131.5
M398504		5.65	<0.01	0.05	6.19	7.1	170	1.00	0.22	4.77	0.26	45.3	27.8	69	14.80	129.5
M398505		4.15	<0.01	0.06	6.95	44.8	180	1.36	0.28	4.12	0.33	60.9	32.1	70	22.1	142.0
M398506		8.25	0.01	0.08	6.83	29.2	120	1.21	0.24	3.19	0.46	49.7	30.2	76	22.6	146.0
M398507		6.89	<0.01	0.01	0.07	<5	50	0.05	0.03	20.9	0.06	1.27	0.6	<1	0.17	1.8
M398508		11.19	<0.01	0.09	7.10	13.8	160	1.42	0.27	3.15	0.44	60.0	31.4	73	22.9	142.5
M398509		10.60	0.01	0.07	7.13	49.4	120	1.42	0.25	3.84	0.39	58.3	35.0	76	26.6	156.0
M398510		9.23	<0.01	0.08	7.38	53.2	150	1.35	0.27	3.09	0.31	60.0	33.4	83	33.1	155.5
M398511		8.49	0.01	0.07	7.09	184.0	120	1.52	0.29	2.11	0.25	66.3	28.8	80	38.7	159.0
M398512		0.26	0.28	0.66	1.91	470	620	0.29	0.22	1.08	0.35	38.9	3.8	81	2.02	40.3
M398513		7.62	0.27	0.16	8.41	1375	300	1.40	0.35	0.37	0.21	69.1	19.8	92	34.3	98.5
M398514		7.41	0.01	0.09	7.50	165.0	210	1.57	0.39	1.77	0.42	63.2	33.6	80	28.0	175.5
M398515		8.42	<0.01	0.07	7.12	74.6	150	1.39	0.25	2.64	0.35	58.7	32.3	75	29.9	159.0
M398516		<0.02	<0.01	0.05	7.13	70.5	150	1.32	0.24	2.61	0.32	55.5	31.0	76	29.2	155.0
M398517		6.80	<0.01	0.08	7.07	112.5	330	1.65	0.66	2.48	0.37	57.0	30.3	75	37.4	179.0
M398518		3.92	<0.01	0.07	6.76	96.3	260	1.63	0.36	2.98	0.47	75.4	22.5	79	23.9	95.1
M398519		6.26	0.01	0.17	7.77	142.0	330	2.05	0.35	1.90	0.37	72.6	35.9	77	26.5	141.0
M398520		7.89	0.02	0.17	7.07	169.5	280	1.83	0.32	3.09	0.53	80.1	33.4	70	21.2	114.5
M398521		6.90	<0.01	<0.01	0.07	<5	30	0.06	0.03	20.6	0.05	1.07	0.6	<1	0.14	1.9
M398522		5.47	<0.01	0.22	6.41	44.3	310	1.82	0.36	4.32	0.11	77.3	30.9	58	27.2	103.0
M398523		9.71	<0.01	0.03	2.81	17	140	0.68	0.13	22.0	0.04	37.8	9.7	21	9.67	19.1
M398524		6.92	<0.01	0.06	3.89	50	150	0.90	0.14	17.00	0.05	46.8	8.2	31	14.15	12.4
M398525		10.64	0.02	0.02	1.35	23	60	0.53	0.05	24.2	0.04	16.55	2.7	8	3.70	5.0
M398526		5.68	<0.01	0.04	3.52	48	130	1.13	0.15	20.2	0.04	43.1	7.0	26	11.70	13.1
M398527		10.31	<0.01	0.06	8.03	276	260	1.85	0.28	2.72	0.03	84.6	15.2	61	26.9	26.1
M398528		9.39	0.15	0.05	7.78	448	300	1.83	0.30	1.51	0.03	83.2	16.3	62	23.1	24.6
M398529		0.26	0.26	0.61	1.95	463	480	0.27	0.21	1.09	0.31	36.8	3.4	80	1.86	34.9
M398530		10.69	<0.01	0.05	8.34	81.4	280	1.95	0.31	1.26	0.02	85.4	14.8	64	25.0	26.6
M398531		4.57	0.01	0.05	8.28	84.7	280	2.03	0.30	1.19	0.02	85.1	14.6	65	24.5	25.1



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Page: 2 - B  
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 Plus Appendix Pages  
 Finalized Date: 7- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226813**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398346		4.64	25.3	0.20	3.0	0.37	0.073	3.67	43.3	39.7	1.60	707	3.69	0.04	11.9	46.5
M398347		4.08	19.35	0.18	2.8	0.32	0.061	3.08	44.0	57.8	1.45	558	1.09	0.05	10.8	34.0
M398348		3.52	14.90	0.14	2.5	0.19	0.052	2.78	35.2	55.2	2.43	510	0.73	0.04	9.0	25.3
M398349		3.77	19.45	0.15	2.2	0.06	0.053	3.42	36.9	44.0	1.10	616	0.32	0.06	9.6	29.7
M398350		2.62	12.60	0.14	1.7	0.1	0.039	2.24	32.3	43.2	0.86	670	0.39	0.04	5.9	19.0
M398501		3.74	17.20	0.17	2.8	0.10	0.051	2.97	45.0	106.5	1.24	582	0.49	0.05	10.5	27.7
M398502		3.60	16.10	0.18	2.5	0.19	0.053	2.76	39.8	89.0	1.26	483	0.44	0.04	9.1	26.9
M398503		7.04	17.40	0.14	3.0	0.05	0.083	0.97	21.9	73.6	2.77	1280	0.31	1.07	11.3	50.1
M398504		7.20	16.45	0.13	3.0	0.05	0.078	1.06	20.3	73.0	3.10	1220	0.30	1.13	11.1	45.3
M398505		7.71	20.2	0.15	3.3	0.11	0.097	2.01	29.5	109.5	2.73	1310	0.51	0.53	14.3	56.3
M398506		7.51	18.00	0.14	3.0	0.10	0.092	1.76	23.3	108.0	2.99	1080	0.34	0.64	12.6	59.1
M398507		0.50	0.20	0.08	<0.1	<0.1	0.006	0.02	0.6	1.3	13.15	214	0.16	0.01	0.2	1.7
M398508		7.34	19.20	0.15	3.2	0.11	0.088	2.09	26.7	77.3	2.95	1030	1.18	0.52	13.6	54.5
M398509		8.09	21.1	0.16	3.4	0.21	0.099	2.34	25.7	112.5	2.77	1130	0.41	0.32	14.7	60.7
M398510		8.20	20.8	0.17	3.5	0.29	0.101	2.73	27.1	122.5	1.78	1100	0.84	0.26	15.4	57.9
M398511		7.14	22.0	0.17	3.5	0.93	0.102	3.36	31.5	89.4	1.55	780	0.89	0.05	17.0	51.6
M398512		3.94	5.40	0.10	3.2	4.26	0.027	0.43	21.2	22.9	0.06	79	15.00	0.11	7.9	16.6
M398513		6.32	25.5	0.17	3.4	5.98	0.100	3.62	31.1	26.9	0.52	535	0.73	0.03	19.2	34.5
M398514		8.52	19.55	0.16	3.2	0.33	0.098	2.79	27.0	111.5	1.92	1640	0.71	0.18	14.8	65.2
M398515		7.90	19.75	0.16	3.2	0.10	0.095	2.33	26.7	144.5	2.87	1060	0.51	0.42	15.0	57.6
M398516		7.84	18.60	0.16	2.9	0.09	0.088	2.32	25.8	135.0	2.87	1040	0.49	0.43	14.0	54.8
M398517		8.04	18.45	0.17	2.9	0.37	0.095	2.56	26.9	167.5	2.47	912	0.67	0.36	13.6	54.7
M398518		6.01	17.65	0.16	3.3	2.80	0.089	2.99	31.6	26.7	2.03	688	1.37	0.10	12.0	37.7
M398519		5.31	19.20	0.17	3.2	6.33	0.070	3.63	35.5	16.0	1.41	1060	7.13	0.04	9.9	60.8
M398520		4.93	16.95	0.17	2.9	6.03	0.057	3.22	34.2	14.9	1.81	1670	4.48	0.04	8.9	57.6
M398521		0.50	0.17	0.08	<0.1	<0.1	<0.005	0.03	0.5	1.0	12.85	207	0.06	<0.01	0.2	1.5
M398522		4.29	17.35	0.16	3.1	0.43	0.068	3.03	38.2	26.4	2.41	2480	0.88	0.05	9.7	53.8
M398523		2.17	6.63	0.12	1.1	0.13	0.023	1.29	18.7	8.1	1.44	956	0.50	0.15	3.3	15.9
M398524		2.34	8.88	0.13	1.5	0.7	0.028	1.81	24.8	7.0	1.21	564	0.40	0.03	4.6	16.2
M398525		1.29	3.03	0.10	0.5	0.4	0.010	0.61	8.7	4.0	3.52	397	0.19	0.03	1.5	5.7
M398526		2.06	9.07	0.13	1.2	1.16	0.030	1.64	22.9	7.5	2.09	580	0.36	0.03	4.3	15.1
M398527		4.41	19.10	0.17	2.8	1.14	0.056	3.59	44.3	18.0	1.18	992	0.36	0.05	10.1	31.5
M398528		3.99	20.9	0.17	2.9	0.88	0.058	3.62	42.7	15.0	0.94	1110	0.16	0.05	11.4	32.5
M398529		4.00	4.94	0.10	3.0	4.16	0.029	0.43	19.7	21.4	0.06	76	13.60	0.11	7.2	15.0
M398530		4.24	21.4	0.18	2.9	0.77	0.061	3.80	45.3	15.4	0.89	839	0.17	0.05	11.4	32.5
M398531		4.18	21.2	0.17	2.9	0.77	0.059	3.91	45.4	14.9	0.86	782	0.16	0.05	11.4	31.8

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 7- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226813**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398346		910	21.6	170.0	0.006	1.81	1.34	18.0	2	3.3	329	0.88	0.06	14.2	0.367	3.39
M398347		600	19.3	144.0	0.002	1.79	0.62	13.7	2	2.3	283	0.75	0.06	13.1	0.367	2.20
M398348		520	25.7	132.0	0.003	1.01	0.52	11.6	1	1.8	305	0.71	0.07	10.4	0.344	1.03
M398349		540	21.6	115.5	0.002	0.18	0.30	10.3	1	2.0	442	0.80	0.06	10.5	0.318	0.83
M398350		490	14.4	116.5	0.002	0.17	0.30	7.6	<1	1.4	919	0.54	0.07	8.9	0.205	0.71
M398501		530	23.3	163.0	0.002	0.44	0.65	12.1	1	2.0	444	0.85	0.05	14.1	0.340	1.39
M398502		1090	18.8	161.5	<0.002	0.58	0.47	12.8	1	1.9	414	0.74	<0.05	11.3	0.354	1.08
M398503		590	9.6	59.8	0.003	0.11	0.27	24.1	2	1.8	87.5	0.83	0.23	5.2	0.684	0.40
M398504		600	10.2	67.3	0.003	0.19	0.24	23.4	2	1.7	90.3	0.81	0.22	5.3	0.674	0.44
M398505		680	11.1	144.0	0.004	0.14	0.40	27.9	2	2.2	94.2	1.05	0.26	6.9	0.671	1.28
M398506		670	10.1	114.5	0.005	0.18	0.38	25.4	2	1.9	63.9	0.91	0.24	6.1	0.686	0.89
M398507		190	1.3	1.1	0.002	<0.01	0.05	0.2	<1	<0.2	48.2	<0.05	<0.05	<0.2	0.005	<0.02
M398508		700	12.2	133.0	0.005	0.18	0.43	25.5	2	2.1	65.9	1.01	0.23	6.9	0.661	0.92
M398509		710	10.8	173.0	0.002	0.18	0.57	28.0	2	2.1	96.8	1.04	0.27	6.5	0.712	1.34
M398510		750	10.5	198.0	0.004	0.13	0.75	28.3	2	2.2	66.0	1.12	0.30	6.8	0.754	1.98
M398511		680	11.1	227	0.003	0.15	1.15	27.0	2	2.3	57.4	1.19	0.33	6.7	0.752	2.71
M398512		280	17.2	17.4	0.002	0.83	57.2	4.6	2	2.2	224	0.58	0.11	4.1	0.328	10.60
M398513		750	16.8	212	0.004	0.30	9.13	27.5	4	2.7	147.5	1.33	0.36	7.2	0.838	9.57
M398514		860	11.6	195.5	0.005	0.22	1.16	27.3	3	2.0	80.8	1.07	0.30	6.5	0.733	5.66
M398515		750	10.9	175.5	0.004	0.32	0.49	27.0	2	2.1	66.4	1.06	0.30	6.3	0.720	1.94
M398516		740	10.6	164.5	0.003	0.33	0.44	24.7	2	2.0	62.0	1.00	0.29	6.0	0.714	1.91
M398517		800	12.6	156.0	0.004	0.63	0.65	26.9	3	2.0	77.6	0.96	0.23	6.6	0.672	1.95
M398518		530	12.9	150.0	0.005	0.90	0.80	22.5	2	2.3	72.3	0.95	0.23	9.9	0.536	7.81
M398519		440	22.3	178.5	0.020	2.36	4.47	21.9	5	2.2	70.0	0.79	0.16	10.7	0.413	16.80
M398520		440	20.3	160.5	0.017	4.31	2.64	17.2	3	2.0	82.1	0.70	0.08	9.5	0.386	14.55
M398521		200	1.2	1.1	<0.002	0.01	0.05	0.1	<1	<0.2	44.2	<0.05	<0.05	<0.2	<0.005	0.03
M398522		380	23.7	164.0	0.005	2.35	1.22	16.6	2	2.2	123.5	0.75	0.20	10.5	0.357	3.04
M398523		380	8.2	64.8	0.003	1.12	0.30	5.5	1	0.8	489	0.29	0.05	4.7	0.133	1.39
M398524		710	10.3	85.4	0.002	1.45	0.44	6.3	1	1.0	338	0.41	<0.05	6.6	0.186	2.93
M398525		570	3.4	29.5	0.002	0.45	0.26	2.3	1	0.4	421	0.12	<0.05	2.2	0.057	0.92
M398526		590	9.9	83.3	0.003	1.13	0.47	6.0	1	1.0	457	0.37	<0.05	6.4	0.158	2.23
M398527		710	26.3	180.0	<0.002	3.67	1.27	13.8	1	2.1	103.0	0.88	<0.05	14.1	0.396	3.07
M398528		1210	15.5	184.5	0.002	3.55	2.44	15.1	1	2.4	93.3	0.93	<0.05	14.3	0.407	3.97
M398529		280	16.6	16.0	0.003	0.85	51.3	4.2	1	2.1	228	0.51	0.10	3.8	0.323	10.00
M398530		1010	14.5	199.5	<0.002	3.91	1.16	15.4	1	2.4	83.3	0.96	<0.05	15.0	0.412	2.92
M398531		1000	13.2	201	<0.002	3.85	1.17	15.2	1	2.4	79.2	0.91	<0.05	14.9	0.418	2.86

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226813**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M398346		4.0	150	2.0	22.9	113	105.5
M398347		2.8	92	1.4	19.7	82	98.2
M398348		3.2	92	1.2	19.3	87	91.2
M398349		2.9	87	1.3	17.7	88	77.1
M398350		3.3	54	0.9	16.8	62	57.3
M398501		3.3	87	1.3	22.6	79	100.5
M398502		2.8	90	1.2	26.1	63	93.6
M398503		1.4	218	0.9	28.1	96	107.5
M398504		1.5	204	0.7	27.0	93	111.0
M398505		1.7	219	1.1	32.3	99	126.0
M398506		1.6	213	1.0	27.1	103	119.5
M398507		0.7	2	0.1	0.9	14	0.5
M398508		1.8	214	1.0	30.2	93	126.0
M398509		1.8	228	1.0	34.0	105	130.0
M398510		1.9	240	1.4	37.9	103	136.0
M398511		2.0	234	2.8	30.0	97	136.5
M398512		5.6	52	35.8	10.8	28	114.0
M398513		2.1	253	10.8	26.3	71	148.5
M398514		2.1	228	1.5	30.3	112	141.5
M398515		1.9	222	0.9	28.9	103	127.5
M398516		1.8	221	0.8	27.7	102	119.5
M398517		1.9	205	1.3	27.4	103	114.5
M398518		2.1	156	2.3	27.1	90	123.0
M398519		3.1	200	3.9	22.5	97	119.0
M398520		3.0	178	3.3	21.3	119	106.0
M398521		0.9	2	0.1	0.8	14	<0.5
M398522		3.0	105	2.5	24.5	107	110.0
M398523		2.2	36	0.6	15.9	41	39.3
M398524		2.0	41	2.2	15.2	50	53.8
M398525		1.0	15	0.8	5.5	32	17.7
M398526		2.0	34	1.1	12.0	43	45.9
M398527		2.7	81	4.0	20.1	84	101.0
M398528		2.6	82	7.6	24.1	85	104.0
M398529		5.4	51	33.1	10.0	27	107.5
M398530		2.6	85	5.5	22.7	82	103.5
M398531		2.6	88	5.5	22.0	83	102.0

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Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226813**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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Page: 1  
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 Account: RCM

**CERTIFICATE WH12226814**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 375  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226814**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398923		8.36	<0.01	0.02	0.75	7	150	0.28	0.03	33.6	0.11	15.55	3.2	2	3.85	9.7
M398924		8.33	<0.01	0.02	1.13	12	170	0.36	0.05	32.1	0.14	21.8	4.3	6	3.98	12.1
M398925		7.87	<0.01	0.02	0.62	7	140	0.22	0.03	35.1	0.05	12.15	2.7	<1	2.21	9.1
M398926		8.25	<0.01	0.02	0.97	18	120	0.32	0.05	32.5	0.05	16.50	4.2	4	3.22	14.7
M398927		7.79	<0.01	0.04	1.03	8	130	0.35	0.06	32.9	0.11	19.75	4.0	7	4.79	14.2
M398928		3.46	0.01	0.04	1.22	7	140	0.40	0.06	32.3	0.10	23.4	4.6	7	5.73	16.0
M398929		8.04	<0.01	0.04	1.45	6	160	0.47	0.07	29.8	0.12	23.8	5.9	14	6.68	19.8
M398930		8.11	<0.01	0.04	0.96	<5	150	0.34	0.05	31.5	0.12	17.65	4.1	6	4.46	13.5
M398931		5.87	<0.01	0.06	2.00	<5	170	0.62	0.09	26.7	0.26	28.5	7.8	21	12.45	28.0
M398932		3.21	<0.01	0.20	6.66	16.1	280	1.86	0.32	4.51	0.45	86.8	25.0	86	36.9	89.4
M398933		6.53	<0.01	0.16	6.51	14.9	320	1.94	0.29	7.30	0.55	76.4	21.8	75	31.8	78.7
M398934		6.83	<0.01	0.23	6.16	19.8	310	1.71	0.29	7.71	0.46	76.7	21.0	70	23.7	78.3
M398935		6.61	0.01	0.06	3.38	60	150	1.12	0.15	11.85	0.16	41.3	18.5	32	10.40	50.4
M398936		8.53	<0.01	0.08	3.89	50.5	150	1.06	0.19	9.86	0.18	46.0	14.5	33	13.95	38.3
M398937		7.76	<0.01	0.05	4.51	23.4	200	1.33	0.26	7.68	0.28	56.5	18.7	51	15.65	47.2
M398938		8.41	<0.01	0.09	5.15	24.0	200	1.36	0.25	5.12	0.61	60.1	22.9	52	20.6	70.7
M398939		6.96	0.01	0.11	6.10	23.2	200	1.69	0.31	3.59	0.57	73.8	25.4	64	23.7	85.8
M396872		4.19	<0.01	0.14	7.74	90.1	290	2.39	0.35	0.70	0.27	81.4	18.2	89	40.0	58.9
M396873		4.91	<0.01	<0.01	0.06	<5	10	0.07	0.02	20.6	0.06	1.32	1.1	<1	0.19	2.3
M396874		7.79	<0.01	0.06	5.73	34.0	270	1.81	0.38	5.75	0.17	67.5	15.3	51	25.3	52.8
M396875		8.71	<0.01	0.03	6.22	82.5	260	1.91	0.41	4.68	0.07	74.1	18.1	49	24.4	59.8
M396876		5.48	<0.01	0.05	5.55	57.6	210	1.52	0.36	6.72	0.10	61.8	17.7	44	20.8	58.0
M396877		2.96	<0.01	0.01	7.50	118.0	260	0.93	0.05	5.67	0.14	92.3	25.5	23	31.9	37.8
M396878		<0.02	<0.01	0.03	7.45	122.5	260	1.04	0.05	5.47	0.16	92.2	25.6	23	31.8	37.6
M396879		5.95	<0.01	0.04	6.66	79.1	340	2.07	0.36	4.09	0.05	67.2	17.9	60	21.2	62.3
M396880		9.00	0.06	0.09	6.60	162.5	310	2.03	0.29	2.90	0.27	70.9	19.2	69	19.85	60.6
M396881		6.46	1.10	0.08	4.41	6850	320	1.06	0.16	3.52	0.23	46.0	14.1	53	12.00	42.8
M396882		8.16	0.64	0.05	3.88	2650	160	0.99	0.13	1.77	0.11	41.8	15.1	63	11.90	39.0
M396883		0.26	4.09	0.77	2.58	437	750	0.65	0.52	9.94	0.53	44.3	5.2	39	2.77	32.0
M396884		6.50	0.73	0.06	5.22	3920	230	1.36	0.17	1.29	0.24	51.8	19.3	81	16.75	52.9
M396885		8.79	0.71	0.08	5.38	1600	220	1.35	0.21	1.68	0.29	57.7	17.3	69	15.75	53.2
M396886		2.85	1.12	0.06	4.84	2570	200	1.15	0.16	2.34	0.21	49.5	16.1	69	13.55	47.9
M396887		4.97	<0.01	<0.01	0.05	<5	10	0.05	0.02	20.6	0.05	1.24	1.1	<1	0.15	1.9
M396888		4.73	1.96	0.05	5.68	>10000	250	1.28	0.20	1.03	0.28	58.0	17.3	71	15.85	61.7
M396889		0.26	16.15	0.90	1.84	1140	310	0.43	0.53	14.80	0.68	33.9	3.9	33	2.60	61.3
M396890		5.44	1.92	0.07	4.22	>10000	210	1.10	0.17	0.11	0.23	46.1	12.7	64	12.30	41.9

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 Plus Appendix Pages  
 Finalized Date: 3- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226814**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398923		0.59	2.08	0.06	0.4	0.16	0.008	0.36	7.6	4.3	0.80	216	0.34	0.01	1.3	6.4
M398924		0.82	3.05	0.07	0.6	0.36	0.012	0.54	10.3	5.9	0.86	224	0.41	0.02	1.9	8.1
M398925		0.47	1.61	<0.05	0.3	0.09	0.007	0.29	5.0	3.6	0.56	124	0.52	0.01	1.1	5.6
M398926		0.76	2.66	0.05	0.5	0.17	0.009	0.48	7.3	5.3	0.73	245	0.85	0.02	1.6	8.3
M398927		0.74	2.71	0.05	0.5	0.05	0.011	0.48	8.4	6.2	0.77	218	0.94	0.02	1.7	8.6
M398928		0.85	3.19	0.05	0.6	0.05	0.013	0.58	10.2	7.1	0.83	224	1.03	0.02	1.9	9.9
M398929		1.16	3.88	0.06	0.7	<0.1	0.015	0.68	10.6	8.4	0.85	336	0.83	0.02	2.3	12.1
M398930		0.85	2.46	0.06	0.5	0.03	0.011	0.42	7.8	6.8	0.74	184	0.80	0.04	1.6	8.3
M398931		1.54	5.66	0.07	1.0	0.06	0.024	0.89	12.9	20.1	0.91	476	1.59	0.12	3.1	16.5
M398932		4.56	19.40	0.16	3.4	0.22	0.076	2.86	40.4	64.5	1.36	439	4.81	0.65	10.1	52.6
M398933		4.20	18.35	0.14	3.2	0.21	0.070	2.71	35.8	52.1	1.27	378	4.58	0.75	9.8	47.0
M398934		4.16	17.05	0.14	3.0	0.23	0.066	2.45	36.3	47.6	1.57	474	4.36	0.60	9.2	45.1
M398935		3.19	9.36	0.08	1.7	0.66	0.039	1.54	19.3	20.8	6.43	970	2.11	0.12	5.2	24.2
M398936		7.29	10.45	0.15	2.0	2.40	0.058	1.87	21.8	10.3	5.43	863	1.99	0.03	7.4	40.2
M398937		4.71	13.35	0.12	2.5	0.20	0.077	2.17	26.3	25.7	4.30	638	1.25	0.04	8.5	45.6
M398938		5.76	15.95	0.15	2.7	0.34	0.089	2.33	27.9	119.5	3.24	464	0.73	0.06	9.8	44.4
M398939		6.00	18.10	0.16	3.3	0.26	0.098	2.73	33.6	147.0	2.77	371	0.74	0.10	12.0	50.8
M396872		5.04	22.2	0.18	3.8	0.95	0.088	3.85	38.6	31.0	1.42	205	2.41	0.05	11.9	52.5
M396873		0.47	0.22	0.05	<0.1	<0.01	<0.005	0.02	0.6	1.1	12.45	203	0.18	<0.01	0.2	2.6
M396874		3.90	16.45	0.13	3.1	0.42	0.074	2.91	32.2	14.9	3.34	659	1.88	0.04	9.9	47.8
M396875		4.12	17.95	0.13	3.2	0.80	0.081	3.20	35.7	13.0	2.79	646	1.33	0.04	11.1	58.1
M396876		3.96	16.15	0.11	2.9	1.20	0.088	2.88	29.9	10.5	3.81	839	1.52	0.04	10.1	58.3
M396877		5.86	18.25	0.16	3.8	0.77	0.074	2.31	44.5	154.0	2.39	963	1.67	0.04	50.5	21.4
M396878		5.63	18.65	0.16	3.6	0.75	0.074	2.29	44.9	160.5	2.28	933	1.70	0.04	50.3	21.6
M396879		4.80	19.10	0.16	3.2	1.31	0.081	3.42	32.6	14.0	2.40	681	0.86	0.04	11.3	41.2
M396880		5.04	19.10	0.15	3.2	2.69	0.071	3.40	33.6	15.3	1.77	558	0.93	0.04	10.8	41.3
M396881		4.41	12.30	0.12	2.2	10.1	0.054	2.16	21.9	13.4	1.94	1240	0.70	0.03	7.2	29.7
M396882		3.75	10.90	0.12	2.1	4.74	0.040	1.89	19.9	14.9	0.96	672	0.45	0.02	6.3	30.6
M396883		1.76	6.43	0.08	1.4	4.77	0.024	0.83	25.1	56.9	4.90	339	9.15	0.01	5.4	32.1
M396884		3.79	15.10	0.13	2.7	4.66	0.053	2.58	24.9	18.4	0.82	633	0.55	0.02	8.5	40.4
M396885		4.28	15.65	0.13	2.7	4.31	0.060	2.72	27.4	15.4	0.98	709	0.75	0.02	8.8	38.4
M396886		4.54	13.35	0.14	2.3	5.15	0.056	2.43	23.3	14.9	1.26	1220	0.51	0.02	7.8	33.1
M396887		0.46	0.19	0.06	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.50	201	0.08	<0.01	0.2	2.2
M396888		4.34	16.60	0.14	2.8	6.40	0.071	2.85	27.3	16.0	0.76	506	0.44	0.02	9.2	36.7
M396889		3.47	3.72	0.09	0.8	5.52	0.056	0.39	18.7	43.5	0.71	454	11.80	0.01	3.3	21.6
M396890		3.61	11.95	0.12	2.2	8.4	0.062	2.00	21.8	17.3	0.26	33	0.58	0.02	6.6	27.3

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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226814**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398923		330	2.9	17.8	<0.002	0.50	0.16	2.5	2	0.3	1910	0.09	<0.05	1.5	0.047	0.20
M398924		440	3.8	26.0	0.002	0.75	0.21	3.5	2	0.4	1910	0.14	<0.05	2.1	0.068	0.34
M398925		1030	2.4	13.9	0.003	0.46	0.23	1.9	2	0.2	1950	0.07	<0.05	1.1	0.035	0.20
M398926		1290	3.8	22.3	0.003	0.75	0.23	3.0	2	0.4	1550	0.12	<0.05	1.7	0.058	0.28
M398927		1250	3.9	23.3	0.005	0.65	0.20	3.2	2	0.4	1660	0.12	<0.05	1.8	0.057	0.18
M398928		1450	4.7	27.8	0.005	0.76	0.24	3.8	2	0.5	1685	0.14	<0.05	2.2	0.067	0.23
M398929		940	4.8	33.9	0.004	0.96	0.25	4.9	2	0.5	1640	0.17	<0.05	2.3	0.101	0.20
M398930		1000	3.5	21.6	0.004	0.59	0.17	3.4	2	0.3	1980	0.11	<0.05	1.6	0.061	0.12
M398931		1110	6.6	46.3	0.007	1.14	0.28	6.7	2	0.7	1350	0.24	<0.05	3.2	0.139	0.25
M398932		910	21.1	144.0	0.022	3.55	0.92	21.6	3	2.3	256	0.83	0.07	11.0	0.460	0.76
M398933		890	19.7	138.0	0.018	3.22	0.81	19.1	3	2.2	394	0.78	0.07	10.3	0.419	0.76
M398934		960	18.7	126.0	0.019	3.05	0.82	17.9	4	2.1	367	0.73	0.06	9.9	0.369	0.69
M398935		330	10.5	74.4	0.006	2.12	1.94	10.4	2	1.2	323	0.40	0.06	5.1	0.190	1.08
M398936		300	11.3	83.3	0.011	6.57	0.51	11.3	2	1.5	233	0.59	0.11	5.9	0.277	6.07
M398937		380	7.5	104.5	0.007	2.24	0.31	15.8	2	1.8	294	0.66	0.15	7.4	0.363	0.90
M398938		400	15.0	118.5	0.004	1.97	0.65	18.9	3	2.1	220	0.74	0.19	7.6	0.416	0.91
M398939		530	17.5	138.5	0.005	2.27	0.75	22.2	3	2.4	138.0	0.95	0.21	9.6	0.509	1.00
M396872		400	22.4	187.0	0.013	3.12	0.83	23.8	3	2.7	82.3	0.97	0.08	12.7	0.545	6.30
M396873		180	1.2	1.2	<0.002	<0.01	<0.05	0.2	1	<0.2	46.2	<0.05	<0.05	<0.2	<0.005	<0.02
M396874		440	23.6	134.0	0.009	3.03	0.58	16.8	2	2.0	195.5	0.81	0.13	10.0	0.405	2.62
M396875		520	23.1	145.0	0.002	3.69	0.75	17.0	2	2.2	152.5	0.89	0.14	11.8	0.413	3.84
M396876		460	21.6	126.5	0.005	3.15	0.61	17.0	2	1.9	179.0	0.79	0.16	9.3	0.400	2.99
M396877		1740	4.6	113.0	0.002	4.68	0.11	19.8	2	1.6	267	3.01	<0.05	7.1	0.941	5.73
M396878		1740	4.6	114.5	0.002	4.54	0.11	19.9	2	1.6	263	2.96	<0.05	7.1	0.936	5.69
M396879		500	19.1	151.5	0.002	4.30	0.62	19.8	2	2.3	201	0.88	0.11	10.9	0.468	2.72
M396880		390	40.7	154.0	0.003	4.92	3.43	20.7	2	2.3	121.0	0.84	0.07	10.7	0.497	5.77
M396881		370	21.2	97.2	0.002	4.23	24.9	15.9	2	1.5	140.5	0.57	<0.05	6.9	0.386	18.70
M396882		280	12.2	86.5	<0.002	3.61	6.92	12.2	2	1.3	63.2	0.50	<0.05	6.2	0.408	13.65
M396883		540	9.2	48.6	0.010	1.37	90.1	4.9	3	2.6	56.7	0.40	0.20	6.2	0.145	2.43
M396884		360	13.8	117.5	0.002	3.56	10.55	17.4	1	1.6	78.0	0.66	<0.05	7.7	0.512	17.70
M396885		360	18.5	124.0	0.003	4.07	8.73	17.6	2	1.8	82.3	0.70	0.06	8.8	0.461	13.60
M396886		380	12.5	110.0	<0.002	4.25	8.53	19.6	1	1.5	75.2	0.58	0.05	7.2	0.473	16.25
M396887		180	1.2	1.0	<0.002	0.01	<0.05	0.2	1	<0.2	44.3	<0.05	<0.05	<0.2	<0.005	0.03
M396888		450	13.2	131.0	<0.002	4.82	38.0	16.2	2	1.8	63.1	0.74	0.05	8.7	0.491	24.6
M396889		650	20.6	25.5	0.007	1.86	157.5	4.0	3	2.0	45.2	0.25	0.36	3.6	0.106	3.52
M396890		310	13.5	94.4	<0.002	4.43	47.2	8.5	2	1.5	45.1	0.55	<0.05	6.8	0.351	28.1

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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226814**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
M398923		1.9	14	0.5	12.3	9	14.1	
M398924		2.3	20	0.9	16.3	14	19.2	
M398925		2.7	11	0.4	9.4	6	10.4	
M398926		2.6	18	0.8	11.8	12	17.1	
M398927		3.0	20	0.3	14.7	17	17.2	
M398928		3.5	25	0.3	16.5	17	20.4	
M398929		2.8	33	0.4	15.9	21	24.4	
M398930		2.6	22	0.3	13.9	13	16.4	
M398931		2.8	50	0.5	16.3	31	34.5	
M398932		5.4	170	1.7	32.2	87	105.0	
M398933		4.8	146	1.8	29.6	94	100.5	
M398934		5.0	136	2.0	31.3	87	96.3	
M398935		2.0	70	1.7	17.0	56	54.5	
M398936		1.5	78	1.0	16.3	46	62.7	
M398937		1.6	111	1.4	18.7	61	79.8	
M398938		1.6	129	1.2	22.1	112	86.8	
M398939		2.2	156	1.5	25.8	103	108.5	
M396872		4.0	179	1.9	24.6	136	121.0	
M396873		0.7	3	0.1	0.8	12	0.5	
M396874		2.2	112	1.4	20.7	69	97.2	
M396875		2.1	109	1.5	22.1	35	100.0	
M396876		2.0	108	1.8	22.8	29	91.4	
M396877		1.9	200	1.7	30.6	93	149.5	
M396878		1.9	202	1.7	29.6	91	144.5	
M396879		2.1	132	1.7	22.3	35	102.0	
M396880		2.3	140	4.4	21.4	112	102.0	
M396881		1.5	109	6.3	15.7	100	72.2	
M396882		1.2	125	6.1	13.4	55	64.9	
M396883		5.5	91	70.7	15.6	65	46.9	
M396884		1.6	153	9.6	18.4	117	84.8	
M396885		1.8	141	8.3	18.0	151	86.4	
M396886		1.5	134	8.8	16.4	94	73.9	
M396887		0.6	2	0.2	0.8	11	<0.5	
M396888		1.8	140	11.2	19.5	111	86.7	2.05
M396889		3.3	107	214	16.3	76	27.0	
M396890		1.5	105	6.8	15.4	75	69.6	2.13



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226814**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**CERTIFICATE WH12226815**

Project: Rackla Gold (Area B)  
 P.O. No.: 12-377  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226815**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396836		11.20	0.01	0.10	8.31	457	320	2.62	0.33	2.85	0.22	97.0	16.4	60	18.35	38.6
M396837		12.23	<0.01	0.06	8.69	113.5	330	3.10	0.29	2.11	0.17	99.1	16.7	70	31.2	35.1
M396838		6.96	<0.01	0.01	0.07	<5	30	0.06	0.03	19.75	0.05	1.17	0.5	<1	0.15	2.0
M396839		11.53	<0.01	0.08	8.56	23.2	300	2.77	0.29	1.50	0.22	95.4	13.8	70	34.2	34.3
M396840		12.86	<0.01	0.08	8.84	24.5	310	3.20	0.30	1.36	0.22	97.5	16.2	75	38.0	35.7
M396841		11.34	<0.01	0.11	8.30	20.2	330	3.09	0.28	1.74	0.27	102.5	14.4	65	40.5	37.2
M396842		11.31	<0.01	0.09	8.94	23.1	350	2.92	0.28	1.22	0.27	108.5	14.5	66	40.5	36.0
M396843		11.44	<0.01	0.08	8.51	21.3	370	2.86	0.26	1.30	0.32	108.5	15.3	63	34.5	35.5
M396844		8.49	<0.01	0.07	9.09	21.5	330	2.85	0.26	1.32	0.25	113.0	15.4	64	36.8	33.3
M396845		9.02	<0.01	0.07	8.88	19.9	520	3.09	0.24	1.59	0.21	117.0	14.4	66	33.5	33.3
M396846		4.29	<0.01	0.08	8.87	18.7	580	2.87	0.24	1.76	0.26	107.5	15.6	67	31.5	30.9
M396847		12.09	<0.01	0.05	8.45	15.4	270	3.20	0.23	3.02	0.03	114.5	13.4	61	34.7	33.2
M396848		11.97	<0.01	0.07	9.07	22.2	310	3.48	0.24	1.72	0.02	116.5	16.9	67	40.7	34.6
M396849		11.33	<0.01	0.08	9.38	18.0	320	3.73	0.26	0.73	<0.02	119.5	16.8	75	46.3	39.8
M396850		0.26	0.25	0.70	1.94	464	720	0.32	0.21	1.10	0.42	40.5	3.6	80	2.07	38.6
M396851		5.48	<0.01	0.09	9.65	17.1	300	3.95	0.29	0.36	<0.02	125.0	16.2	75	46.2	40.5
M396852		3.84	<0.01	0.10	9.09	282	470	3.66	0.25	0.93	0.02	116.0	15.4	68	39.9	39.0
M396853		7.18	<0.01	0.04	8.56	23.6	260	2.88	0.34	2.31	0.15	108.0	20.4	56	31.9	54.5
M396854		11.53	<0.01	0.04	9.21	46.1	370	3.26	0.39	1.66	0.48	113.5	19.5	65	36.0	58.4
M396855		11.50	<0.01	0.07	9.23	20.3	330	3.26	0.35	1.74	0.32	113.0	19.7	67	34.3	65.8
M396856		5.95	<0.01	0.04	9.00	38.1	360	2.98	0.36	1.36	0.09	96.1	21.8	69	34.1	61.8
M396857		8.85	<0.01	0.02	8.36	39.1	310	2.57	0.36	3.70	0.16	95.5	18.3	54	25.5	49.0
M396858		8.34	0.03	0.04	3.53	109	490	1.02	0.15	12.40	0.25	49.1	8.5	19	9.07	23.7
M396859		<0.02	0.03	0.05	3.50	108	430	1.11	0.16	12.60	0.23	47.0	8.1	18	8.62	22.4
M396860		10.19	0.25	0.16	1.84	102	130	0.73	0.10	15.95	2.28	23.8	4.7	12	4.76	16.6
M396861		7.14	<0.01	0.18	4.78	83.4	210	1.56	0.30	9.27	1.02	53.3	11.3	37	17.30	42.4
M396862		0.26	4.21	0.71	2.91	456	810	0.62	0.50	10.50	0.58	45.2	4.3	43	2.39	30.2
M396863		10.92	0.12	0.09	5.28	148.0	230	1.50	0.25	4.36	0.15	52.3	15.7	54	19.70	51.0
M396864		11.27	<0.01	0.06	3.85	134.5	200	0.85	0.13	2.69	0.08	38.7	10.2	61	11.45	31.6
M396865		7.63	<0.01	0.07	6.27	230	240	1.54	0.22	2.74	0.28	64.5	18.1	76	25.0	55.3
M396866		3.62	1.52	0.06	6.47	8080	260	1.37	0.22	2.31	0.19	60.8	19.2	75	23.2	50.5
M396867		4.39	1.36	0.06	7.06	773	260	1.65	0.26	2.60	0.21	69.3	22.5	74	23.9	53.1
M396868		4.94	<0.01	0.01	0.06	7	20	0.06	0.02	20.2	0.06	1.23	0.5	<1	0.16	1.9
M396869		7.50	<0.01	0.09	7.15	99.2	240	1.66	0.29	2.23	0.58	68.9	18.8	77	34.8	62.6
M396870		7.67	<0.01	0.06	4.18	119.0	200	0.86	0.15	3.71	0.09	42.6	9.9	60	16.05	32.8
M396871		2.73	<0.01	0.08	7.29	487	350	1.74	0.29	1.15	0.23	77.0	19.0	82	28.0	59.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226815**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M396836		4.04	21.5	0.15	3.0	0.50	0.062	3.56	48.4	16.5	1.69	808	3.56	0.06	10.4	40.0
M396837		4.32	22.5	0.14	3.4	0.34	0.063	3.88	50.2	59.0	1.66	679	2.85	0.06	11.7	36.6
M396838		0.43	0.20	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.1	12.45	194	0.15	<0.01	0.2	1.7
M396839		4.25	22.4	0.16	3.3	0.21	0.061	3.81	47.7	3.3	1.70	397	3.06	0.06	11.3	36.6
M396840		4.26	23.0	0.14	3.6	0.14	0.066	4.01	48.6	90.9	1.68	363	3.08	0.07	12.0	35.9
M396841		4.07	22.1	0.17	4.1	0.10	0.064	3.65	52.1	71.6	1.76	497	3.03	0.06	11.5	33.5
M396842		4.39	22.8	0.17	3.4	0.10	0.053	3.99	54.5	61.2	1.62	377	3.21	0.06	11.9	35.7
M396843		4.25	22.5	0.16	3.2	0.12	0.065	3.76	54.2	64.4	1.62	382	3.34	0.06	11.5	35.7
M396844		4.18	22.9	0.17	3.1	0.13	0.056	3.89	54.3	72.7	1.66	386	3.05	0.07	11.5	35.0
M396845		3.86	23.3	0.17	3.3	0.10	0.055	3.87	56.2	73.7	1.62	407	3.10	0.07	11.8	34.1
M396846		3.94	23.1	0.15	3.2	0.11	0.053	3.86	52.9	72.3	1.66	433	3.29	0.07	11.6	34.0
M396847		4.02	22.8	0.16	3.3	0.09	0.053	3.68	55.8	58.6	2.11	943	2.81	0.06	10.5	31.6
M396848		3.96	23.7	0.17	3.3	0.08	0.055	4.06	57.8	73.7	1.70	803	2.92	0.06	11.6	34.6
M396849		4.03	24.9	0.17	3.3	0.07	0.062	4.50	57.3	67.0	1.48	490	1.72	0.06	12.6	36.2
M396850		3.78	5.59	0.07	3.6	3.67	0.016	0.42	21.7	25.5	0.06	76	15.60	0.11	7.1	17.2
M396851		3.90	25.7	0.19	3.5	0.08	0.062	4.51	61.5	62.2	1.33	301	1.06	0.05	12.5	37.1
M396852		4.16	23.7	0.16	3.3	0.14	0.053	4.22	56.5	66.1	1.32	381	1.10	0.05	11.6	35.1
M396853		4.37	21.8	0.17	3.3	0.05	0.053	3.82	56.5	19.0	1.75	844	1.99	0.05	11.8	42.5
M396854		3.46	24.5	0.17	3.4	0.06	0.058	4.28	56.5	17.4	1.54	865	1.57	0.06	12.9	43.5
M396855		4.04	23.9	0.18	3.1	0.08	0.057	4.17	56.1	18.7	1.63	1080	0.99	0.06	12.2	44.3
M396856		5.77	22.9	0.17	3.2	0.09	0.057	4.22	48.1	17.7	1.21	611	1.76	0.06	11.8	45.0
M396857		3.51	21.8	0.15	3.2	0.13	0.061	3.93	48.6	11.0	2.26	821	3.31	0.06	12.3	41.2
M396858		2.39	9.13	0.09	1.7	0.11	0.017	1.60	25.7	4.9	7.64	2570	3.46	0.03	6.0	20.8
M396859		2.37	8.73	0.09	1.5	0.10	0.010	1.54	24.3	4.8	7.53	2540	3.30	0.03	5.7	19.9
M396860		2.26	4.55	0.05	1.0	0.95	0.007	0.80	11.3	4.3	9.31	2120	4.41	0.02	3.0	31.5
M396861		3.77	12.10	0.11	2.7	2.09	0.048	2.23	26.2	8.5	5.16	679	3.35	0.03	7.3	75.1
M396862		1.80	6.21	0.08	1.6	4.64	0.014	0.83	26.5	55.2	5.27	360	9.44	0.01	5.0	30.7
M396863		4.27	13.60	0.10	2.7	2.05	0.045	2.41	26.0	12.7	2.42	742	1.30	0.03	7.5	42.0
M396864		4.46	9.54	0.08	2.1	0.61	0.025	1.71	19.3	15.3	1.37	406	0.47	0.03	5.3	23.8
M396865		3.82	15.85	0.12	3.2	0.80	0.063	2.78	32.0	34.4	1.51	417	0.50	0.04	9.7	36.3
M396866		3.85	15.90	0.11	3.4	2.33	0.045	2.78	29.4	18.3	1.26	968	0.50	0.03	10.1	36.3
M396867		3.75	18.10	0.14	3.7	3.01	0.064	3.09	33.5	19.1	1.54	952	0.49	0.04	11.0	41.7
M396868		0.43	0.21	<0.05	<0.1	<0.01	<0.005	0.02	0.6	1.1	12.55	202	0.14	<0.01	0.1	1.7
M396869		4.36	17.60	0.12	3.6	1.08	0.067	3.24	33.6	23.3	1.47	426	1.25	0.04	10.8	40.8
M396870		3.17	9.72	0.08	2.1	0.07	0.025	1.81	21.1	22.0	1.89	625	0.40	0.03	5.8	21.5
M396871		4.80	18.35	0.11	3.8	0.44	0.066	3.30	37.7	33.4	1.26	225	1.00	0.04	11.5	40.7



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226815**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396836		660	20.5	180.0	0.007	3.47	2.66	16.2	2	3.2	225	0.84	0.07	13.9	0.321	2.92
M396837		660	17.5	190.5	0.013	2.33	1.22	17.3	1	3.3	174.0	0.95	0.07	17.1	0.360	2.23
M396838		180	1.4	1.3	<0.002	0.01	<0.05	0.2	<1	<0.2	42.9	<0.05	<0.05	<0.2	<0.005	<0.02
M396839		630	16.3	184.5	0.015	1.71	0.85	15.5	2	3.2	136.0	0.95	<0.05	14.5	0.356	1.62
M396840		570	16.6	193.0	0.014	1.65	0.87	17.4	2	3.4	114.0	0.94	0.06	15.1	0.380	1.71
M396841		580	15.4	204	0.012	1.48	0.79	16.4	2	3.1	133.0	0.95	0.07	17.0	0.337	1.57
M396842		620	17.3	207	0.011	1.76	0.82	15.6	2	3.1	127.0	0.93	0.05	18.1	0.350	1.61
M396843		670	17.3	188.5	0.014	1.66	0.84	15.5	2	3.0	152.5	0.93	<0.05	18.5	0.323	1.58
M396844		740	18.7	192.0	0.013	1.57	0.83	15.5	2	3.0	140.5	0.94	0.07	19.5	0.331	1.55
M396845		660	17.2	186.0	0.010	1.26	0.71	16.3	2	2.9	230	0.94	0.05	20.3	0.333	1.41
M396846		620	17.9	173.5	0.009	1.28	0.69	15.6	2	2.9	237	0.94	<0.05	18.8	0.333	1.42
M396847		380	15.8	186.5	0.005	1.09	0.67	15.7	1	2.7	167.0	0.88	<0.05	19.3	0.304	1.12
M396848		420	15.3	188.5	0.005	1.16	0.70	16.6	2	2.7	170.5	0.87	<0.05	19.2	0.334	1.16
M396849		450	14.2	193.5	0.006	0.90	0.71	17.4	2	2.9	134.0	0.96	<0.05	19.8	0.368	1.27
M396850		280	16.7	18.0	0.002	0.85	69.7	5.2	2	2.5	230	0.52	0.11	3.7	0.308	12.50
M396851		440	13.4	205	0.006	0.85	0.67	18.6	2	3.0	125.5	0.97	<0.05	21.4	0.369	1.33
M396852		480	12.5	191.5	0.007	1.93	1.33	16.8	2	2.8	172.5	0.93	<0.05	19.1	0.356	1.94
M396853		430	18.8	169.5	<0.002	3.51	0.83	16.6	1	2.6	181.0	0.89	0.05	18.6	0.331	1.14
M396854		480	17.4	169.5	0.002	2.27	0.91	18.8	1	2.9	127.5	0.99	0.07	18.7	0.376	1.20
M396855		470	25.4	168.5	<0.002	2.59	0.76	18.3	1	2.9	167.0	0.94	0.06	18.7	0.362	1.09
M396856		470	16.5	153.5	<0.002	5.62	0.87	17.5	1	2.7	134.5	0.93	0.08	15.5	0.368	1.46
M396857		490	18.5	130.0	<0.002	3.21	0.91	15.0	1	2.7	181.5	0.94	0.08	14.3	0.346	1.53
M396858		360	8.7	69.6	0.004	1.33	0.93	6.6	1	1.0	255	0.48	0.05	6.7	0.167	0.90
M396859		360	8.2	64.9	0.004	1.34	0.86	6.3	1	1.0	249	0.45	0.05	6.4	0.161	0.88
M396860		220	35.8	37.7	0.016	1.37	1.71	4.3	2	0.7	224	0.25	0.06	3.0	0.102	1.68
M396861		380	38.4	105.0	0.018	3.29	0.99	11.5	2	1.7	185.0	0.61	0.18	7.5	0.319	4.63
M396862		550	9.5	49.2	0.006	1.44	99.8	4.5	2	2.6	60.0	0.37	0.28	5.7	0.156	2.57
M396863		440	19.0	119.5	0.005	3.86	3.71	15.9	2	1.8	145.5	0.59	0.12	6.9	0.422	5.39
M396864		280	12.4	82.3	0.002	3.84	1.14	10.7	1	1.2	133.5	0.43	<0.05	5.1	0.373	3.14
M396865		460	13.2	141.5	<0.002	3.21	0.80	19.9	1	2.0	142.5	0.75	0.07	8.5	0.535	2.98
M396866		500	15.3	137.0	<0.002	3.79	20.8	19.6	2	1.9	113.0	0.74	0.05	8.6	0.550	8.15
M396867		480	17.6	155.5	<0.002	3.44	5.69	20.7	1	2.2	140.0	0.83	0.07	9.4	0.562	9.45
M396868		190	1.2	1.2	<0.002	<0.01	<0.05	0.2	<1	<0.2	46.8	<0.05	<0.05	<0.2	<0.005	0.02
M396869		460	33.2	153.0	0.003	4.08	0.57	20.1	2	2.3	102.0	0.77	0.10	9.4	0.517	4.72
M396870		360	8.0	84.0	<0.002	0.45	0.46	10.7	<1	1.3	140.5	0.48	0.05	5.7	0.397	0.77
M396871		430	23.9	162.0	0.002	3.22	0.66	19.8	2	2.5	110.5	0.84	0.07	10.5	0.568	5.19



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12226815**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M396836		4.0	134	4.2	24.1	94	96.8
M396837		3.7	151	2.3	24.6	97	106.5
M396838		0.5	2	0.1	0.7	15	<0.5
M396839		4.1	172	1.8	24.5	104	104.5
M396840		3.9	176	1.9	25.7	92	111.5
M396841		4.3	168	1.8	26.8	95	113.5
M396842		4.0	164	1.8	24.4	99	108.5
M396843		4.0	151	1.7	27.5	108	99.8
M396844		4.0	153	1.8	27.2	94	99.2
M396845		4.3	163	1.7	24.5	83	103.5
M396846		4.1	159	2.1	23.4	97	100.5
M396847		4.1	134	1.7	23.9	69	100.5
M396848		4.1	137	2.1	24.1	65	103.5
M396849		4.3	152	2.0	25.2	68	111.0
M396850		6.1	52	36.2	10.6	30	117.0
M396851		4.3	141	2.2	26.0	64	108.5
M396852		7.3	129	2.6	24.7	67	101.5
M396853		2.6	83	1.7	23.8	65	101.5
M396854		2.4	92	1.9	24.5	222	107.5
M396855		2.2	111	1.8	24.8	135	102.0
M396856		2.5	90	1.9	22.9	55	101.0
M396857		2.7	78	1.8	21.4	50	104.5
M396858		2.2	40	2.2	13.6	25	57.5
M396859		2.1	39	2.1	13.3	24	52.8
M396860		3.8	48	1.4	7.3	612	34.7
M396861		2.8	92	1.6	18.2	183	89.3
M396862		5.8	96	78.0	15.4	72	52.3
M396863		2.2	116	2.8	18.6	38	98.5
M396864		1.3	107	1.0	12.4	46	64.8
M396865		2.0	143	2.5	20.7	127	106.5
M396866		2.0	153	8.2	20.0	79	102.5
M396867		2.2	156	8.5	22.9	89	116.0
M396868		0.7	3	0.1	0.7	15	<0.5
M396869		2.5	147	1.7	23.1	213	115.0
M396870		1.4	105	1.1	14.7	77	68.8
M396871		2.8	165	2.0	22.3	120	129.0



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**CERTIFICATE OF ANALYSIS WH12226815**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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To: **ATAC RESOURCES LTD.**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

Page: 1  
 Finalized Date: 11- OCT- 2012  
 Account: RCM

**CERTIFICATE WH12233184**

Project: Rackla Gold - Area B  
 P.O. No.: 12-379  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233184**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396891		4.20	1.00	0.08	5.96	2460	320	1.41	0.26	0.14	0.19	60.2	19.3	85	15.80	57.0
M396892		5.88	1.93	0.09	6.16	>10000	380	1.44	0.27	0.17	0.36	64.5	19.1	81	13.40	61.3
M396893		7.45	1.43	0.09	6.15	5850	270	1.54	0.28	0.86	0.19	65.4	17.5	76	16.55	52.6
M396894		7.18	0.01	0.05	6.26	146.5	350	1.88	0.27	2.08	0.14	71.6	17.5	71	26.4	48.8
M396895		0.26	4.28	0.68	2.57	429	770	0.59	0.43	10.00	0.51	43.4	4.5	40	2.32	30.9
M396896		8.10	<0.01	0.09	6.30	129.5	380	1.80	0.29	2.56	0.14	69.4	17.5	73	29.3	55.4
M396897		7.44	<0.01	0.11	5.04	38.1	290	1.51	0.23	7.31	0.09	62.2	12.3	55	23.6	42.9
M396898		7.61	0.01	0.10	6.97	22.6	360	1.74	0.30	1.67	0.18	73.4	19.6	78	35.5	62.1
M396899		7.93	<0.01	0.08	6.16	29.0	260	1.77	0.25	1.65	0.12	68.2	17.3	69	34.0	53.6
M396900		6.93	<0.01	0.09	6.25	78.3	320	1.66	0.27	1.86	0.14	67.0	17.5	75	33.2	54.1
M396901		3.46	<0.01	0.07	6.37	84.0	300	1.75	0.29	1.82	0.15	70.6	18.8	73	34.6	55.8
M396902		7.92	<0.01	0.06	5.64	77.9	250	1.37	0.24	2.51	0.24	60.1	16.3	71	27.6	48.5
M396903		6.89	<0.01	0.08	5.57	91.5	290	1.42	0.25	2.23	0.13	62.5	16.7	68	22.0	49.1
M396904		7.49	<0.01	0.06	5.65	73.8	250	1.48	0.25	2.95	0.15	63.7	15.9	68	26.2	43.8
M396905		5.12	<0.01	0.11	6.75	60.9	300	2.09	0.32	1.08	0.16	80.6	17.2	75	33.3	50.0
M396906		5.25	<0.01	0.10	6.47	94.3	410	1.85	0.32	1.13	0.15	71.3	16.8	80	50.5	51.2
M396907		<0.02	<0.01	0.12	6.45	102.0	390	1.73	0.31	1.13	0.14	70.4	16.4	79	51.8	51.3
M396908		4.93	<0.01	0.02	0.08	5	20	0.07	0.04	19.65	0.06	1.50	0.8	<1	0.33	2.4
M396909		3.59	<0.01	0.14	6.81	77.7	300	1.85	0.30	1.65	0.27	72.0	19.1	92	29.2	61.9
M396910		4.42	<0.01	0.09	6.58	61.0	320	1.89	0.32	1.25	0.21	71.8	18.0	77	27.0	53.7
M396911		6.24	<0.01	0.09	5.59	54.4	300	1.45	0.22	1.35	0.16	63.6	15.0	60	27.0	45.7
M396912		3.57	<0.01	0.07	5.33	39.4	280	1.42	0.23	2.79	0.09	59.3	15.0	63	28.3	43.0
M396913		7.06	<0.01	0.06	6.13	43.9	230	1.80	0.25	2.35	0.02	68.5	19.1	72	38.4	53.1
M396914		7.82	<0.01	0.05	5.82	35.7	220	1.55	0.23	2.30	<0.02	61.4	17.2	72	26.1	48.5
M396915		4.44	<0.01	0.08	5.67	52.2	200	1.58	0.26	2.19	0.06	63.2	18.4	70	23.4	48.0
M396916		5.82	<0.01	0.15	6.09	82.5	260	1.64	0.28	1.61	0.24	63.7	17.4	75	24.0	52.4
M396917		2.92	<0.01	0.04	2.23	65.6	380	0.44	0.08	2.06	0.07	23.3	6.2	39	4.58	20.3
M396918		5.93	<0.01	0.07	2.69	24.8	120	0.61	0.12	2.60	0.06	29.6	7.7	39	8.35	23.3
M396919		6.67	<0.01	0.13	4.70	96.4	360	1.20	0.20	2.69	0.18	50.6	14.9	66	13.65	46.1
M396920		4.93	<0.01	0.01	0.07	<5	20	0.05	0.03	19.55	0.05	1.39	0.7	<1	0.21	1.6
M396921		6.67	0.03	0.12	6.30	411	420	1.93	0.25	1.57	0.22	66.5	20.0	81	20.4	62.7
M396922		7.83	<0.01	0.07	6.11	22.7	210	1.74	0.25	1.73	0.02	72.5	16.3	72	33.5	50.7
M396923		7.44	<0.01	0.07	5.18	74.3	310	1.25	0.21	2.83	0.10	53.8	17.5	69	19.90	45.0
M396924		7.56	<0.01	0.03	3.82	143.5	250	0.80	0.14	4.37	0.03	41.9	13.6	58	11.80	34.1
M396925		0.26	0.27	0.69	1.82	462	940	0.34	0.23	1.13	0.38	39.4	4.2	82	2.08	40.5
M396926		7.83	<0.01	0.05	5.06	446	210	1.09	0.18	4.18	0.07	50.3	17.3	59	17.50	40.8





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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233184**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M396891		5.47	16.05	0.20	3.1	9.12	0.060	2.88	28.2	14.8	0.38	72	0.80	0.03	9.4	41.7
M396892		5.60	16.75	0.21	3.2	10.9	0.068	2.98	29.9	15.9	0.40	38	0.50	0.03	10.3	37.6
M396893		5.05	16.35	0.21	3.4	6.31	0.067	3.01	30.8	21.2	0.66	174	0.52	0.03	10.2	36.2
M396894		4.45	17.20	0.18	3.3	1.49	0.069	3.06	31.3	50.3	1.40	388	0.82	0.03	10.4	34.3
M396895		1.71	6.11	0.15	1.5	5.18	0.027	0.79	24.4	53.4	4.84	337	8.75	0.02	5.1	29.4
M396896		4.86	17.45	0.22	3.4	1.35	0.059	3.11	33.3	30.8	1.82	455	0.73	0.04	10.4	37.8
M396897		4.52	13.55	0.19	2.8	0.37	0.052	2.52	29.6	19.1	3.88	959	0.57	0.04	8.6	28.2
M396898		5.54	18.25	0.18	3.5	0.45	0.075	3.43	34.7	37.4	1.74	367	0.97	0.04	11.2	41.5
M396899		4.57	16.80	0.18	3.4	0.38	0.070	3.04	30.9	45.6	1.64	361	0.75	0.04	10.1	37.1
M396900		4.64	16.50	0.19	3.4	0.38	0.068	3.10	31.1	54.9	1.69	414	1.00	0.04	10.1	37.2
M396901		4.90	17.10	0.20	3.4	0.39	0.077	3.10	31.9	59.5	1.74	418	0.71	0.04	10.3	39.4
M396902		4.53	14.45	0.17	3.0	0.30	0.055	2.73	27.9	76.2	1.93	507	0.67	0.04	8.9	35.9
M396903		4.57	15.15	0.22	3.1	0.40	0.072	2.69	29.6	78.5	1.71	487	0.86	0.03	9.2	36.5
M396904		4.49	14.75	0.20	3.0	0.29	0.061	2.73	29.1	77.1	2.15	531	0.57	0.04	9.2	31.9
M396905		4.65	18.55	0.25	3.7	0.48	0.079	3.35	38.2	64.6	1.37	294	1.40	0.04	11.5	38.7
M396906		4.78	17.05	0.17	3.5	0.56	0.064	3.00	32.8	62.5	1.33	278	1.35	0.04	9.9	39.4
M396907		4.73	17.20	0.18	3.6	0.53	0.067	3.03	33.1	63.0	1.30	278	1.38	0.04	10.0	39.3
M396908		0.46	0.28	0.10	<0.1	0.1	0.008	0.02	0.7	1.4	12.45	192	0.09	0.01	0.2	1.8
M396909		5.22	17.95	0.19	3.7	0.83	0.068	3.23	32.8	63.8	1.64	363	2.01	0.04	10.3	50.1
M396910		4.40	18.15	0.22	3.7	0.44	0.079	3.12	32.9	111.0	1.46	280	1.15	0.04	10.9	41.8
M396911		3.86	15.35	0.18	3.2	0.14	0.058	2.43	29.8	104.5	1.43	307	0.56	0.16	9.6	29.9
M396912		4.25	14.25	0.16	3.0	0.04	0.061	2.29	27.4	88.1	2.08	633	0.74	0.15	8.8	28.9
M396913		4.61	17.10	0.18	3.8	0.02	0.068	2.62	32.3	107.5	2.17	521	0.23	0.21	10.6	35.4
M396914		4.62	14.75	0.18	3.2	0.03	0.059	2.41	29.2	74.7	2.19	505	0.23	0.06	9.4	33.7
M396915		4.60	14.70	0.19	3.1	0.06	0.059	2.40	29.3	96.9	2.06	476	0.29	0.04	9.4	34.2
M396916		4.70	15.85	0.18	3.3	0.71	0.066	2.77	30.1	75.6	1.51	384	1.23	0.03	9.2	39.6
M396917		2.45	5.56	0.13	1.4	<0.1	0.019	0.66	11.5	166.0	1.09	500	0.35	0.01	3.5	13.8
M396918		2.75	6.97	0.13	1.5	0.05	0.032	1.12	14.5	67.6	1.24	565	0.36	0.02	4.0	15.9
M396919		4.42	12.75	0.16	2.6	0.57	0.052	2.13	23.7	46.6	1.50	564	0.83	0.03	7.3	32.9
M396920		0.46	0.23	0.11	<0.1	<0.1	0.008	0.03	0.6	1.5	12.50	205	0.07	0.01	0.2	1.5
M396921		5.22	17.00	0.20	3.3	1.15	0.075	2.96	32.6	35.5	1.47	412	0.90	0.03	9.9	42.7
M396922		4.79	16.25	0.20	3.0	0.18	0.071	2.83	33.4	106.5	1.82	378	0.26	0.04	9.5	32.1
M396923		4.11	13.45	0.17	2.9	0.14	0.054	2.22	25.2	192.5	1.88	453	0.42	0.03	8.3	32.4
M396924		3.51	9.36	0.16	2.3	<0.1	0.032	1.57	18.4	109.0	2.01	652	0.34	0.03	6.0	25.4
M396925		3.80	5.48	0.12	3.7	4.20	0.029	0.42	21.0	26.9	0.06	78	15.00	0.11	8.0	17.5
M396926		4.29	11.50	0.16	2.5	0.19	0.050	2.21	27.3	54.9	2.12	711	0.41	0.05	7.9	30.3

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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233184**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396891		470	24.2	137.0	0.005	5.96	10.50	13.9	2	2.0	61.2	0.72	0.05	10.2	0.549	24.4
M396892		550	15.7	144.5	<0.002	5.62	20.1	10.9	2	2.2	64.5	0.77	0.07	10.3	0.565	41.6
M396893		440	21.2	143.5	0.003	5.04	9.50	14.3	2	1.9	68.8	0.77	0.08	11.3	0.527	19.35
M396894		480	17.7	155.0	0.003	3.38	0.53	18.4	2	2.2	112.5	0.78	0.08	10.5	0.522	6.47
M396895		520	9.9	45.2	0.009	1.35	83.8	4.4	2	2.6	52.1	0.38	0.15	6.3	0.147	2.45
M396896		630	22.2	161.5	0.004	2.77	0.75	18.0	2	2.2	175.0	0.77	<0.05	11.2	0.498	6.24
M396897		1320	18.9	129.0	<0.002	1.47	0.38	14.9	1	1.8	263	0.65	<0.05	8.9	0.402	3.32
M396898		670	25.5	176.5	0.002	2.79	0.54	20.5	1	2.3	109.5	0.86	0.06	11.9	0.560	4.27
M396899		510	20.1	170.0	0.004	1.91	0.48	18.2	2	2.0	112.0	0.75	0.07	11.0	0.501	3.13
M396900		610	20.2	166.0	0.003	1.79	0.48	17.7	2	2.0	124.5	0.80	0.06	10.8	0.518	3.09
M396901		630	22.7	174.5	0.003	2.01	0.52	18.1	2	2.0	122.5	0.77	0.05	11.6	0.522	3.23
M396902		680	18.6	149.5	0.003	1.31	0.46	15.1	1	1.8	148.5	0.71	<0.05	10.0	0.489	2.47
M396903		500	19.6	151.5	0.005	1.68	0.51	16.0	1	1.9	110.5	0.71	<0.05	10.8	0.476	3.18
M396904		510	18.8	157.0	0.003	1.21	0.49	15.5	1	1.9	99.6	0.71	<0.05	10.1	0.475	1.64
M396905		550	24.0	199.0	0.002	2.22	0.54	18.7	2	2.4	89.1	0.86	0.07	12.4	0.504	2.73
M396906		350	22.5	177.0	0.009	2.69	0.55	17.7	2	2.3	97.3	0.75	0.07	11.4	0.502	3.73
M396907		340	22.1	176.5	0.003	2.69	0.57	17.5	2	2.2	95.1	0.83	0.07	11.5	0.500	3.79
M396908		190	1.8	1.6	<0.002	0.01	0.05	0.3	1	0.2	47.2	<0.05	<0.05	0.2	0.006	0.05
M396909		360	20.9	178.0	0.008	2.88	0.53	20.5	3	2.2	106.0	0.79	0.06	11.8	0.556	4.48
M396910		420	21.2	163.5	0.007	1.82	0.53	19.9	3	2.3	100.5	0.85	0.08	11.7	0.525	2.16
M396911		410	21.0	148.5	0.002	0.72	0.45	15.5	1	1.9	104.5	0.74	<0.05	10.4	0.434	0.79
M396912		520	15.5	141.5	<0.002	0.53	0.44	14.9	2	1.9	119.0	0.67	0.05	9.5	0.453	0.64
M396913		510	15.4	166.0	<0.002	0.36	0.49	18.2	1	2.1	132.5	0.79	0.06	10.8	0.520	0.72
M396914		500	14.2	142.0	0.003	0.34	0.40	16.3	1	1.9	110.0	0.70	<0.05	9.8	0.512	0.66
M396915		450	16.2	146.5	<0.002	0.49	0.46	16.5	1	1.9	115.0	0.73	<0.05	10.1	0.496	0.87
M396916		380	24.8	157.0	0.003	2.23	0.57	17.6	2	2.0	114.0	0.72	0.06	10.6	0.503	2.96
M396917		310	4.3	35.5	<0.002	0.14	0.20	6.4	1	0.8	147.0	0.25	<0.05	3.9	0.271	0.52
M396918		300	8.8	60.0	<0.002	0.29	0.28	7.4	1	1.1	116.0	0.30	<0.05	5.0	0.271	0.52
M396919		470	17.8	116.0	0.002	2.43	0.70	14.3	1	1.8	253	0.55	0.07	8.0	0.428	2.47
M396920		170	1.4	1.6	0.002	0.02	0.05	0.2	1	0.3	42.3	<0.05	<0.05	<0.2	0.005	0.05
M396921		550	23.3	157.0	0.005	3.11	1.34	19.4	2	2.2	182.5	0.76	0.07	10.4	0.544	2.96
M396922		700	14.9	157.5	0.002	0.48	0.45	17.8	2	2.2	109.5	0.73	0.05	10.8	0.476	1.04
M396923		420	17.7	115.0	<0.002	0.73	0.38	15.0	1	1.7	176.0	0.65	<0.05	9.2	0.483	1.26
M396924		480	12.2	79.3	0.003	1.08	0.76	11.7	1	1.3	174.0	0.44	<0.05	6.5	0.407	0.80
M396925		280	18.4	17.5	0.003	0.85	59.1	5.1	3	2.4	219	0.51	0.16	4.4	0.323	12.55
M396926		470	13.9	97.1	<0.002	2.01	1.11	14.1	<1	1.3	179.5	0.61	<0.05	9.1	0.497	1.19



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233184**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.1	1	0.1	0.1	2	0.5	0.001
M396891		2.0	158	9.7	19.8	79	104.0	
M396892		2.1	152	13.3	21.9	213	105.5	1.220
M396893		2.2	141	8.6	24.7	92	109.5	
M396894		2.2	143	2.1	20.1	88	106.0	
M396895		5.4	90	62.6	14.6	67	46.5	
M396896		2.4	135	1.8	22.6	74	110.0	
M396897		2.1	105	1.0	26.0	62	96.1	
M396898		2.5	161	1.3	23.0	96	120.0	
M396899		2.3	134	1.2	20.7	90	105.0	
M396900		2.3	141	1.5	20.6	91	111.0	
M396901		2.4	139	1.7	21.7	97	108.5	
M396902		2.0	132	2.1	19.8	125	103.5	
M396903		2.2	131	2.3	21.7	79	106.5	
M396904		2.1	125	1.4	19.6	86	101.0	
M396905		2.8	141	1.5	24.0	97	124.0	
M396906		2.7	145	3.1	19.8	82	112.5	
M396907		2.8	143	3.1	19.6	86	112.0	
M396908		0.7	2	0.1	0.9	14	1.0	
M396909		3.5	164	2.3	20.9	116	119.0	
M396910		3.0	149	1.9	21.7	99	123.5	
M396911		2.1	116	1.2	19.8	83	104.5	
M396912		1.9	118	1.1	19.4	69	94.4	
M396913		2.1	135	1.2	22.2	54	113.5	
M396914		2.0	133	1.0	20.2	60	106.0	
M396915		2.0	131	1.3	20.7	71	107.0	
M396916		2.6	145	1.6	20.2	102	99.7	
M396917		0.8	71	1.1	7.4	39	40.1	
M396918		1.0	72	0.9	10.0	51	48.7	
M396919		1.6	127	2.2	16.1	114	83.0	
M396920		0.7	3	0.1	0.8	14	0.9	
M396921		2.2	162	3.1	20.1	115	113.5	
M396922		2.1	129	1.2	23.1	64	101.0	
M396923		1.8	128	2.3	16.7	84	90.6	
M396924		1.2	109	2.8	15.2	49	73.5	
M396925		6.1	52	35.0	10.2	28	124.0	
M396926		1.6	127	4.5	16.9	60	78.3	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233184**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12233186**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 381  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233186**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M400037		5.66	<0.01	2.31	2.07	69.0	840	1.14	0.09	0.18	21.2	17.95	4.4	77	10.60	66.4
M400038		7.82	<0.01	2.64	2.16	67.6	600	1.29	0.11	0.29	28.1	19.70	5.0	74	9.06	74.6
M400039		7.46	<0.01	2.78	2.27	46.2	440	1.27	0.10	0.45	21.1	22.0	4.7	78	10.95	68.7
M400040		5.12	<0.01	0.03	0.06	<5	30	0.07	0.04	21.5	0.13	1.24	1.4	<1	0.17	2.8
M400041		6.55	<0.01	2.66	2.57	52.3	320	1.37	0.12	0.37	25.5	23.8	5.3	76	11.70	68.7
M400042		8.06	<0.01	2.09	2.40	53.0	410	1.23	0.11	0.29	24.2	20.8	5.2	59	11.40	65.1
M400043		7.24	<0.01	1.91	2.29	59.6	360	1.21	0.11	0.24	19.10	19.75	5.0	57	11.85	65.0
M400044		7.62	<0.01	1.91	2.43	97.2	240	1.26	0.11	0.21	26.6	20.1	5.3	52	13.55	73.5
M400045		6.79	<0.01	2.04	2.28	131.0	320	1.22	0.11	0.13	29.0	19.90	5.5	53	9.40	79.3
M400046		7.95	0.01	2.80	2.54	162.0	340	1.19	0.12	0.17	19.75	21.7	5.6	65	9.51	68.2
M400047		0.26	16.10	1.01	1.95	1150	210	0.39	0.59	14.95	0.73	32.8	3.8	34	2.47	61.3
M400048		6.77	0.03	1.10	3.00	120.0	280	1.49	0.14	0.26	6.15	21.9	6.1	58	12.20	56.1
M400049		7.28	<0.01	1.49	3.15	55.9	180	1.39	0.15	0.18	12.40	24.1	6.5	66	15.40	70.4
M400050		7.62	0.01	1.24	2.97	58.5	210	1.40	0.15	0.16	6.29	21.9	6.0	59	14.40	57.8
M400051		7.81	<0.01	1.54	3.08	92.3	300	1.30	0.16	0.26	12.40	25.7	6.0	64	15.50	70.2
M400052		7.66	<0.01	1.37	3.17	130.5	270	1.43	0.15	0.19	8.98	27.4	6.7	57	13.20	59.2
M400053		6.78	<0.01	1.65	2.88	111.5	220	1.44	0.15	0.16	10.85	23.8	6.1	61	12.80	67.7
M400054		6.32	<0.01	1.80	3.02	123.0	300	1.43	0.15	0.31	8.78	27.9	6.6	64	12.25	72.9
M400055		0.26	3.98	0.88	2.76	424	770	0.63	0.44	9.93	0.58	42.0	5.5	39	2.62	31.9
M400056		5.92	<0.01	2.09	2.85	133.5	320	1.27	0.14	0.18	22.4	20.6	5.9	61	11.00	88.0
M400057		3.60	0.02	1.94	2.73	106.5	550	1.34	0.13	0.61	13.60	29.4	5.9	67	10.00	69.5
M400058		1.72	0.02	1.81	2.69	98.0	630	1.27	0.12	0.65	14.20	27.7	5.5	66	9.32	69.2
M400059		2.33	<0.01	1.06	1.51	8	870	0.45	0.06	20.5	0.48	20.3	3.2	13	1.48	11.1
M400060		2.28	<0.01	17.55	0.88	18	3020	0.29	0.04	17.80	0.64	14.80	4.0	6	0.86	26.7
M400061		3.36	<0.01	1.08	0.56	7	1590	0.22	0.04	18.30	0.75	10.55	2.2	3	0.76	7.3
M400062		5.16	<0.01	0.04	0.04	<5	20	0.05	0.02	20.2	0.10	1.15	1.4	<1	0.13	11.9
M400063		4.60	<0.01	0.20	0.34	7	1970	0.18	0.02	18.35	0.29	9.64	1.6	1	0.45	6.3
M400064		2.16	0.01	0.13	7.88	351	70	0.72	0.03	0.87	0.20	54.2	60.0	116	9.46	54.6
M400065		2.65	0.01	0.19	0.57	97	80	0.18	0.01	18.00	0.18	17.40	5.1	3	0.49	7.2
M400066		4.20	<0.01	0.07	0.76	68	200	0.21	0.01	17.35	0.22	34.5	7.1	7	0.73	6.7
M400067		3.71	<0.01	0.07	5.17	118.5	200	0.46	0.04	9.37	0.39	62.8	28.9	55	5.31	32.6
M400068		3.48	<0.01	0.06	0.19	11	3840	0.10	0.08	18.80	0.11	5.69	1.5	<1	0.24	2.7
M400069		<0.02	<0.01	0.06	0.19	7	3230	0.09	0.06	19.05	0.11	5.19	1.3	<1	0.24	2.8
M400070		4.43	<0.01	0.17	0.77	90	1740	0.20	0.03	17.45	0.18	34.1	9.4	6	0.61	11.2
M400071		3.15	<0.01	0.23	0.61	103	550	0.20	0.01	17.90	1.99	18.65	7.4	3	0.44	7.3
M400072		3.90	<0.01	0.19	0.24	22	2830	0.09	0.01	19.05	0.88	8.55	1.9	<1	0.19	3.7



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233186**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M400037		0.81	6.10	0.18	0.8	0.6	0.020	0.72	12.6	13.2	0.15	26	29.5	0.03	3.2	116.5
M400038		0.97	6.31	0.17	0.8	0.28	0.022	0.73	15.0	13.3	0.17	36	39.0	0.01	3.1	130.5
M400039		1.01	6.76	0.17	0.8	0.2	0.022	0.78	17.6	14.2	0.23	45	33.8	0.01	3.4	109.0
M400040		0.47	0.34	0.37	<0.1	<0.1	0.005	0.03	0.6	1.0	13.70	219	0.20	<0.01	0.3	0.2
M400041		1.33	7.39	0.19	1.0	0.2	0.024	0.88	17.4	16.3	0.26	49	35.2	0.01	3.8	105.0
M400042		1.10	7.09	0.15	0.8	0.23	0.023	0.85	14.2	15.0	0.26	51	52.6	0.01	3.5	121.5
M400043		1.08	6.90	0.13	0.8	0.26	0.021	0.82	14.0	12.0	0.24	49	53.3	0.01	3.6	116.5
M400044		1.74	7.51	0.17	0.9	0.4	0.024	0.89	14.0	10.2	0.24	50	72.7	0.01	3.7	126.5
M400045		1.17	7.22	0.14	0.9	0.55	0.024	0.81	13.4	9.5	0.18	41	71.8	0.01	3.7	123.5
M400046		1.28	7.45	0.12	1.0	0.53	0.024	0.92	14.6	9.4	0.18	37	56.1	<0.01	3.9	115.5
M400047		3.54	4.16	0.07	0.9	5.3	0.059	0.39	18.5	39.2	0.75	479	13.50	<0.01	3.7	17.9
M400048		1.58	9.12	0.10	1.2	0.34	0.033	1.06	13.4	15.2	0.32	63	69.2	0.01	5.0	127.5
M400049		2.04	9.62	0.10	1.3	0.65	0.029	1.13	14.7	12.6	0.30	51	50.5	0.01	5.3	108.0
M400050		2.09	8.94	0.08	1.2	0.46	0.030	1.08	13.6	13.9	0.28	49	45.4	0.01	5.2	106.0
M400051		1.83	9.53	0.11	1.3	0.33	0.030	1.13	15.6	13.3	0.31	49	44.6	0.01	5.4	102.5
M400052		1.77	9.41	0.09	1.2	0.27	0.030	1.18	16.8	12.8	0.28	48	43.7	0.01	5.7	109.0
M400053		1.97	8.82	0.09	1.2	0.28	0.027	1.04	15.0	11.8	0.26	40	50.0	0.01	5.3	112.5
M400054		2.43	9.07	0.14	1.2	0.49	0.027	1.12	16.4	10.6	0.27	47	53.5	0.01	5.6	122.5
M400055		1.76	6.95	0.07	1.5	4.3	0.028	0.83	24.2	50.5	5.02	350	10.40	<0.01	5.8	29.1
M400056		1.36	8.70	0.13	1.2	1.39	0.029	1.13	12.5	6.1	0.25	45	59.6	<0.01	5.2	113.5
M400057		1.26	8.23	0.12	1.2	1.62	0.024	1.08	19.4	5.7	0.32	59	42.3	<0.01	5.3	103.0
M400058		1.15	8.05	0.10	1.1	1.67	0.023	1.04	18.8	5.9	0.32	58	40.0	0.01	5.0	98.0
M400059		1.22	4.05	0.05	0.9	0.16	0.013	0.51	10.5	8.3	4.78	544	0.91	0.09	3.1	6.0
M400060		1.20	2.52	0.05	0.5	0.3	0.012	0.31	7.9	6.5	10.20	912	0.85	0.04	1.9	9.1
M400061		1.41	1.80	<0.05	0.3	0.3	0.014	0.22	5.9	3.2	11.10	1300	0.55	0.01	1.2	2.4
M400062		0.45	0.32	0.39	<0.1	<0.1	<0.005	0.02	0.6	0.9	12.85	205	0.21	<0.01	0.3	0.4
M400063		1.46	0.89	<0.05	0.2	0.2	0.006	0.13	6.1	1.5	11.40	1540	0.36	<0.01	1.2	1.2
M400064		13.70	12.05	0.32	6.3	2.59	0.045	3.65	21.7	9.3	0.49	130	5.12	0.02	83.7	113.5
M400065		2.87	0.92	<0.05	0.4	0.5	0.008	0.20	10.0	1.5	11.30	1490	0.95	<0.01	4.1	7.5
M400066		2.52	1.40	0.05	0.7	0.5	0.011	0.29	19.0	1.5	10.70	1300	0.67	<0.01	7.5	11.2
M400067		7.46	7.85	0.19	3.4	1.61	0.025	2.16	29.1	3.9	5.23	786	3.21	<0.01	43.1	57.1
M400068		0.98	0.52	<0.05	0.1	0.2	<0.005	0.07	3.3	1.1	11.75	867	0.21	0.02	0.7	<0.2
M400069		1.00	0.54	0.06	0.1	0.1	<0.005	0.07	3.1	1.2	11.95	879	0.22	0.02	0.7	0.3
M400070		4.38	1.42	0.07	0.5	0.9	0.006	0.31	18.9	1.4	10.55	1440	1.49	0.01	5.8	16.1
M400071		4.33	1.23	0.06	0.4	1.8	0.010	0.21	9.4	1.5	10.90	1320	1.06	<0.01	3.8	13.5
M400072		2.00	0.68	<0.05	0.1	0.4	0.008	0.09	4.8	0.8	11.60	1400	0.40	0.01	1.3	1.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233186**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M400037		760	10.6	42.9	0.043	0.98	30.5	4.9	27	0.8	47.4	0.21	0.21	3.1	0.105	1.35
M400038		1160	9.8	41.4	0.056	1.14	36.2	4.7	34	1.0	68.3	0.23	0.23	3.3	0.106	1.67
M400039		1550	9.3	44.8	0.044	1.16	32.4	4.9	34	0.9	65.8	0.25	0.24	3.5	0.116	1.60
M400040		210	1.8	1.2	<0.002	<0.01	0.15	0.3	1	<0.2	48.0	<0.05	<0.05	<0.2	<0.005	<0.02
M400041		1160	9.3	50.7	0.041	1.50	35.2	5.4	34	0.9	73.2	0.29	0.24	3.9	0.131	1.85
M400042		550	8.9	48.1	0.055	1.29	32.7	5.0	32	0.9	55.1	0.25	0.23	3.6	0.121	2.24
M400043		490	8.0	48.8	0.053	1.22	29.2	4.8	28	0.8	42.9	0.26	0.18	3.5	0.118	1.99
M400044		460	8.5	52.4	0.052	2.04	40.0	4.8	40	0.8	42.9	0.28	0.19	3.5	0.130	2.67
M400045		500	9.2	48.2	0.053	1.39	42.3	5.0	37	0.9	41.8	0.25	0.20	3.6	0.122	2.39
M400046		790	77.1	50.5	0.045	1.49	25.4	5.2	27	0.9	62.2	0.27	0.17	3.8	0.132	2.13
M400047		680	20.3	25.1	0.007	1.92	168.0	3.3	3	2.1	49.6	0.26	0.39	4.0	0.114	3.51
M400048		320	80.0	60.8	0.049	1.74	14.30	6.5	14	1.0	50.0	0.34	0.13	4.5	0.157	2.79
M400049		320	46.9	65.0	0.041	2.25	18.55	6.0	18	1.1	42.6	0.37	0.14	4.5	0.170	2.88
M400050		250	54.1	62.0	0.036	2.28	17.85	5.8	16	1.0	36.7	0.35	0.13	4.5	0.161	3.19
M400051		530	47.1	65.5	0.034	2.02	21.1	6.2	22	1.1	46.4	0.38	0.16	4.7	0.166	2.74
M400052		400	50.3	64.3	0.033	1.93	17.55	6.0	16	1.1	45.1	0.39	0.13	4.9	0.168	2.87
M400053		310	34.9	58.5	0.034	2.21	20.4	5.6	17	1.0	38.6	0.36	0.14	4.5	0.151	2.70
M400054		910	37.0	63.0	0.039	2.70	24.7	6.3	23	1.0	51.4	0.38	0.17	4.5	0.161	3.51
M400055		530	9.0	48.3	0.009	1.40	92.8	4.2	3	2.7	60.7	0.39	0.20	6.8	0.150	2.36
M400056		260	77.4	61.1	0.035	1.57	39.5	5.3	28	1.0	30.6	0.37	0.17	4.4	0.152	3.35
M400057		1570	34.0	59.6	0.033	1.38	21.1	6.3	24	1.0	71.3	0.37	0.16	4.4	0.149	2.53
M400058		1660	31.2	54.7	0.032	1.28	18.40	6.1	19	0.9	76.4	0.35	0.14	4.1	0.146	2.29
M400059		430	17.1	23.5	<0.002	0.16	0.58	2.7	1	0.5	323	0.21	<0.05	3.2	0.088	0.25
M400060		300	15.7	13.0	<0.002	0.11	0.69	2.2	1	0.3	139.0	0.12	<0.05	1.8	0.051	0.32
M400061		340	16.7	8.1	<0.002	0.08	0.54	1.3	1	0.2	87.5	0.08	<0.05	1.2	0.030	0.40
M400062		180	1.6	1.0	<0.002	0.01	0.13	0.1	1	<0.2	46.5	<0.05	<0.05	<0.2	<0.005	<0.02
M400063		420	18.2	4.8	<0.002	0.10	0.46	1.2	1	0.2	75.1	0.07	<0.05	0.7	0.029	0.68
M400064		3560	179.0	73.9	0.002	>10.0	10.30	13.0	4	2.6	53.7	5.30	0.07	5.4	2.21	14.30
M400065		810	28.7	6.2	<0.002	0.13	2.52	2.0	1	0.2	66.2	0.24	<0.05	0.7	0.107	1.15
M400066		1010	339	8.5	<0.002	1.09	1.69	3.6	1	0.3	82.9	0.47	<0.05	1.0	0.194	1.18
M400067		2290	137.0	55.6	<0.002	7.70	3.11	9.8	3	1.5	70.7	2.75	0.05	4.5	1.175	6.87
M400068		340	16.3	3.5	<0.002	0.18	0.49	1.1	1	<0.2	77.7	<0.05	<0.05	0.5	0.013	0.17
M400069		330	16.1	3.6	<0.002	0.17	0.50	1.1	1	<0.2	78.0	<0.05	<0.05	0.4	0.013	0.18
M400070		1150	97.4	9.6	<0.002	0.36	4.15	1.9	1	0.4	78.9	0.38	<0.05	1.6	0.152	0.90
M400071		1010	139.0	6.5	<0.002	1.05	6.05	1.3	2	0.3	67.0	0.24	<0.05	0.9	0.097	1.09
M400072		500	26.7	3.1	<0.002	0.23	1.65	0.8	1	<0.2	70.5	0.07	<0.05	0.4	0.028	0.26





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**CERTIFICATE OF ANALYSIS WH12233186**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M400037		5.7	994	0.7	18.6	1760	27.8
M400038		7.4	1110	0.7	28.3	2100	29.6
M400039		7.1	989	0.7	36.9	1600	31.3
M400040		0.9	5	0.1	0.8	21	0.5
M400041		6.9	1080	0.8	33.4	1540	36.7
M400042		7.1	1270	0.7	21.9	1720	32.6
M400043		7.5	1180	0.6	20.0	1420	32.0
M400044		8.6	1440	0.7	20.8	2000	33.6
M400045		9.3	1400	0.9	20.6	2310	33.8
M400046		7.1	1100	1.4	24.4	1580	37.3
M400047		3.3	114	223	16.4	82	33.0
M400048		7.5	731	1.3	19.4	847	48.8
M400049		6.1	591	1.1	15.9	1100	49.6
M400050		5.6	585	1.1	12.9	714	47.0
M400051		6.0	708	1.0	20.4	1180	47.7
M400052		5.6	702	1.1	16.4	1040	46.9
M400053		6.7	775	1.1	15.2	1040	46.8
M400054		7.7	829	1.2	32.7	1020	48.8
M400055		5.6	92	68.1	15.0	68	54.9
M400056		6.4	1140	1.4	11.6	2330	43.8
M400057		7.8	934	2.8	39.7	1340	45.6
M400058		6.9	896	3.0	39.3	1420	43.4
M400059		1.6	31	4.4	7.9	121	31.2
M400060		2.3	20	66.3	7.4	184	17.1
M400061		2.0	11	2.0	6.3	273	10.8
M400062		0.5	3	0.2	0.8	22	<0.5
M400063		2.5	7	0.7	6.5	130	6.8
M400064		17.8	213	2.5	21.2	91	268
M400065		4.1	13	0.8	11.5	169	15.4
M400066		4.4	21	0.5	14.3	107	26.7
M400067		8.7	127	1.5	21.0	205	141.0
M400068		1.8	4	0.4	4.9	92	2.9
M400069		1.8	4	0.4	4.9	96	3.0
M400070		6.5	16	1.1	17.2	212	21.9
M400071		5.6	11	1.0	17.2	981	15.3
M400072		2.8	4	0.4	6.9	443	5.8



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**CERTIFICATE OF ANALYSIS WH12233186**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12233187**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 382  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12233187**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398532		9.84	0.01	0.06	7.42	95.1	270	2.37	0.32	1.63	0.12	72.1	16.0	61	22.9	25.2
M398533		6.70	<0.01	0.08	6.61	72.4	320	2.17	0.29	1.97	0.22	66.5	17.0	70	25.2	40.3
M398534		7.45	0.02	0.05	5.60	172.0	290	1.88	0.25	2.43	0.04	57.5	17.8	68	22.3	49.8
M398535		7.89	0.06	0.05	4.75	235	200	1.39	0.22	3.05	0.09	49.4	15.3	56	14.80	41.3
M398536		5.31	1.21	0.09	4.17	2060	170	1.00	0.17	2.50	0.07	40.1	14.6	52	10.65	35.7
M398537		4.96	<0.01	0.01	0.06	<5	20	0.05	0.06	21.4	0.07	1.14	0.7	<1	0.14	4.0
M398538		5.80	0.58	0.06	2.41	613	100	0.49	0.10	4.61	0.06	25.0	7.8	29	5.89	19.8
M398539		8.22	0.23	0.06	5.69	477	210	1.69	0.26	5.28	0.09	57.5	19.7	58	22.7	49.4
M398540		7.88	0.12	0.06	5.61	404	260	1.65	0.24	5.32	0.19	55.5	18.9	61	22.3	46.9
M398541		7.33	0.01	0.05	5.86	302	240	1.63	0.23	4.18	0.07	53.5	19.6	65	19.25	49.8
M398542		6.94	<0.01	0.03	5.35	89.7	320	1.39	0.20	4.43	0.03	46.8	19.3	67	19.90	45.9
M398543		0.26	0.25	0.63	1.83	473	570	0.33	0.22	1.08	0.36	34.8	4.1	82	2.10	38.9
M398544		3.16	<0.01	0.03	5.46	127.0	340	1.37	0.21	5.24	0.07	49.9	17.8	61	15.80	45.8
M398545		3.20	<0.01	0.02	3.80	204	230	0.88	0.14	5.62	0.03	35.2	12.5	49	11.05	31.9
M398546		7.30	0.01	0.09	6.15	208	340	1.99	0.25	4.02	0.04	57.7	22.6	70	21.2	47.5
M398547		<0.02	0.01	0.08	5.91	201	320	2.01	0.24	3.89	0.02	58.1	21.8	68	20.7	47.6
M398548		6.03	<0.01	0.06	4.99	222	250	1.33	0.19	3.47	0.03	45.4	16.9	60	14.85	41.3
M398549		3.74	<0.01	<0.01	6.00	166.5	270	1.03	0.03	6.99	0.08	116.0	23.3	11	20.3	11.3
M398550		5.09	0.09	<0.01	6.06	655	220	1.24	0.09	8.27	0.08	101.5	21.6	19	22.3	17.2
M398951		4.93	<0.01	0.05	0.07	<5	20	0.06	0.06	21.2	0.05	1.33	0.8	<1	0.22	2.1
M398952		7.54	0.02	0.02	5.31	194	290	1.58	0.20	13.10	0.08	60.3	12.2	43	14.20	44.8
M398953		4.40	0.03	<0.01	5.03	434	210	1.47	0.13	15.00	0.15	69.7	14.2	35	13.80	31.5
M398954		4.31	<0.01	<0.01	6.48	443	170	1.22	0.02	6.99	0.08	135.5	23.1	10	25.2	12.5
M398955		4.68	0.07	<0.01	6.03	632	310	1.53	0.22	3.53	0.03	67.8	14.1	67	13.90	48.4
M398956		4.14	<0.01	<0.01	6.49	182.5	370	1.02	0.02	8.41	0.13	137.5	24.1	7	19.60	11.4
M398957		4.60	<0.01	<0.01	6.92	63.9	220	1.30	0.02	7.24	0.10	149.0	27.8	10	17.95	12.6
M398958		Not Recvd														
M398959		5.36	0.02	0.02	3.49	245	240	1.11	0.13	14.95	0.10	41.9	10.7	30	8.01	28.9
M398960		2.71	<0.01	0.02	0.77	43	90	0.44	0.03	29.8	0.03	12.60	3.7	2	1.61	8.0
M398961		7.65	<0.01	0.01	0.58	22	90	0.31	0.03	33.2	0.03	10.80	2.5	<1	1.09	6.6
M398962		7.24	<0.01	0.01	0.74	19	90	0.35	0.04	32.4	0.05	14.40	3.0	2	1.44	8.8
M398963		3.92	<0.01	0.01	1.11	88	110	0.42	0.05	30.7	0.05	19.55	4.4	6	1.78	10.7
M398964		5.10	0.01	<0.01	5.95	1660	310	0.98	0.02	10.50	0.13	128.5	23.4	6	13.40	11.6
M398965		2.34	<0.01	<0.01	5.67	1400	290	0.99	0.02	10.55	0.11	124.0	22.3	5	13.75	11.9
M398966		5.79	<0.01	0.02	0.97	62	130	0.36	0.04	31.4	0.05	18.90	3.4	3	1.47	8.5
M398967		6.31	0.01	0.01	0.98	27	120	0.33	0.04	32.3	0.08	17.05	3.8	5	2.05	10.7



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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398532		3.68	19.75	0.14	3.0	0.73	0.055	3.70	38.2	17.8	0.99	851	1.41	0.05	11.4	32.3
M398533		4.34	18.00	0.14	3.2	0.31	0.059	3.42	32.7	41.4	1.77	442	0.44	0.04	11.8	32.4
M398534		4.33	15.60	0.13	2.8	0.29	0.054	2.75	28.0	68.2	1.76	427	0.33	0.03	10.0	32.4
M398535		4.17	13.20	0.11	2.5	0.80	0.046	2.32	23.8	30.6	1.45	576	0.38	0.02	8.7	26.6
M398536		3.04	11.35	0.10	2.2	3.08	0.034	2.12	20.2	11.0	1.20	608	0.46	0.02	7.4	25.5
M398537		0.48	0.20	<0.05	<0.1	<0.01	<0.005	0.03	0.6	1.1	12.95	220	0.17	0.01	0.1	2.1
M398538		3.16	5.97	0.07	1.3	1.29	0.020	1.15	12.5	22.8	1.78	841	0.45	0.02	3.3	13.6
M398539		4.29	15.40	0.12	2.8	0.94	0.048	2.84	27.3	26.6	2.47	883	0.40	0.03	10.2	32.1
M398540		4.43	15.00	0.11	2.8	0.58	0.046	2.83	26.9	21.9	2.40	812	0.39	0.03	9.9	31.7
M398541		4.27	15.45	0.12	2.9	0.39	0.050	2.88	26.0	47.3	2.08	506	0.35	0.03	9.8	34.8
M398542		3.88	13.75	0.11	2.6	0.14	0.046	2.60	22.4	55.7	2.40	499	0.43	0.03	8.6	33.0
M398543		3.84	5.52	0.08	3.3	3.98	0.023	0.44	18.4	26.7	0.06	79	14.90	0.11	8.2	17.4
M398544		3.65	14.40	0.11	2.7	0.32	0.049	2.69	24.3	35.0	2.51	571	0.59	0.04	9.2	32.4
M398545		3.05	9.77	0.09	1.9	0.47	0.030	1.85	16.9	30.7	2.26	615	0.33	0.02	5.9	21.9
M398546		3.75	16.65	0.12	2.7	0.53	0.052	3.09	28.2	25.1	1.82	476	0.41	0.03	9.1	34.8
M398547		3.57	16.60	0.11	2.6	0.52	0.050	2.99	28.5	25.1	1.75	460	0.39	0.03	9.0	33.8
M398548		3.57	13.55	0.10	2.2	0.49	0.039	2.48	22.7	18.1	1.46	467	0.36	0.02	7.6	28.0
M398549		5.99	15.50	0.18	3.0	0.47	0.062	2.12	58.2	219	2.08	1080	1.78	0.05	53.6	10.4
M398550		5.44	14.85	0.18	2.9	0.65	0.056	2.69	48.9	82.7	2.66	1250	1.47	0.05	43.0	16.6
M398951		0.49	0.22	0.05	<0.1	<0.01	<0.005	0.03	0.6	1.6	12.85	229	0.14	0.01	0.3	2.2
M398952		3.89	13.80	0.17	2.1	0.58	0.056	2.50	32.2	9.8	5.31	1500	0.62	0.03	7.1	27.0
M398953		4.31	12.65	0.18	2.3	0.32	0.049	2.27	34.1	22.8	4.32	1360	0.92	0.04	18.0	22.4
M398954		6.82	16.00	0.30	3.8	0.66	0.074	2.66	67.4	65.2	2.23	1050	1.90	0.05	57.0	14.1
M398955		3.10	16.75	0.21	3.2	0.32	0.057	2.86	32.9	18.1	1.50	432	0.39	0.03	10.7	26.3
M398956		7.05	14.85	0.31	3.8	0.43	0.080	2.89	68.4	65.3	2.41	1400	2.07	0.07	58.3	11.6
M398957		7.72	18.15	0.31	3.9	0.21	0.086	1.57	74.0	184.0	2.37	1520	2.10	0.06	61.8	10.5
M398958																
M398959		3.14	9.38	0.13	1.6	0.38	0.032	1.62	21.9	9.0	4.11	1090	0.73	0.02	5.1	22.6
M398960		1.35	2.11	0.08	0.4	0.29	0.011	0.36	6.6	2.7	1.50	537	0.49	0.01	1.3	8.7
M398961		0.63	1.63	0.07	0.3	0.37	0.007	0.27	5.7	1.8	0.91	315	0.47	0.01	1.1	2.8
M398962		0.60	2.02	0.07	0.4	0.52	0.009	0.35	7.7	2.7	0.74	256	0.53	0.01	1.4	4.2
M398963		1.40	2.88	0.10	0.6	0.41	0.015	0.52	10.0	3.5	1.15	465	0.83	0.01	2.4	5.6
M398964		7.15	15.15	0.29	3.3	0.72	0.074	2.42	63.7	109.0	2.23	1350	1.82	0.04	53.8	8.5
M398965		6.71	14.50	0.26	3.2	0.67	0.073	2.32	61.0	106.5	2.21	1320	1.77	0.04	50.6	7.6
M398966		0.98	2.63	0.09	0.5	0.19	0.010	0.46	9.6	3.4	0.71	351	0.54	0.01	2.7	3.5
M398967		0.82	2.55	0.09	0.5	0.45	0.013	0.46	8.7	3.8	0.51	238	0.63	0.01	2.0	5.4

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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233187**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398532		750	34.0	166.5	0.002	3.37	1.56	15.4	1	2.4	111.0	0.80	<0.05	13.3	0.395	2.62
M398533		580	28.1	159.0	0.003	1.25	1.69	17.6	1	2.3	123.0	0.78	<0.05	11.0	0.443	1.52
M398534		480	13.0	127.0	0.002	1.40	1.25	17.6	1	2.0	218	0.68	<0.05	9.2	0.480	1.29
M398535		400	14.1	103.0	0.003	3.33	1.98	15.4	1	1.7	159.0	0.60	<0.05	7.6	0.407	2.83
M398536		330	10.7	83.9	0.002	2.24	7.73	14.6	1	1.6	104.0	0.51	0.06	6.4	0.381	5.41
M398537		200	1.2	1.1	0.002	0.01	0.14	0.2	<1	0.2	42.8	<0.05	<0.05	<0.2	<0.005	0.05
M398538		270	8.6	46.5	0.002	1.35	3.11	7.1	<1	1.0	222	0.26	<0.05	4.1	0.202	2.53
M398539		550	21.9	127.5	0.003	2.96	1.78	17.0	1	2.1	165.0	0.68	<0.05	9.4	0.464	2.83
M398540		490	26.1	120.5	0.003	2.87	1.67	16.9	1	1.9	166.5	0.68	0.06	9.0	0.467	1.71
M398541		480	11.4	117.5	0.003	2.66	1.40	17.3	1	1.9	141.5	0.69	0.05	9.1	0.498	1.88
M398542		440	8.8	108.5	0.003	0.62	0.38	15.4	1	1.6	207	0.59	0.05	7.6	0.460	1.43
M398543		280	16.8	16.7	0.004	0.87	58.3	5.1	2	2.5	219	0.50	0.12	3.8	0.307	11.35
M398544		440	8.0	110.5	0.003	1.67	0.51	15.7	1	1.7	244	0.62	0.05	8.3	0.454	2.11
M398545		330	4.8	71.4	0.003	1.03	0.97	11.1	1	1.3	231	0.43	<0.05	5.7	0.339	2.56
M398546		310	17.0	123.5	0.005	2.32	1.61	18.3	1	1.9	146.0	0.63	<0.05	9.5	0.424	2.16
M398547		300	16.2	121.0	0.004	2.19	1.60	18.1	1	1.9	143.0	0.61	0.05	9.4	0.406	2.10
M398548		280	12.1	102.0	0.003	2.68	1.17	15.2	1	1.6	120.5	0.52	<0.05	7.3	0.360	2.08
M398549		4210	3.4	97.3	0.003	2.60	1.10	14.2	2	1.4	537	2.90	<0.05	5.3	1.325	2.30
M398550		3540	6.2	118.5	0.004	2.75	1.86	15.9	1	1.5	451	2.32	<0.05	6.3	1.090	2.51
M398951		190	1.1	1.2	<0.002	0.02	0.12	0.2	<1	0.2	45.8	<0.05	<0.05	<0.2	0.006	0.03
M398952		440	10.6	117.5	<0.002	1.47	1.14	12.2	1	1.6	346	0.52	0.08	9.5	0.256	1.43
M398953		1450	8.0	108.0	0.002	1.46	1.36	13.0	1	1.3	526	1.04	0.07	7.5	0.508	1.36
M398954		4380	4.9	161.0	0.003	4.40	1.19	15.2	3	1.3	580	3.06	0.05	6.5	1.385	2.83
M398955		490	4.6	138.0	<0.002	1.50	2.42	16.2	1	1.9	274	0.75	0.07	11.3	0.470	1.41
M398956		4660	5.7	152.0	<0.002	2.43	0.68	14.6	3	1.3	679	3.15	0.05	6.4	1.400	2.23
M398957		4770	3.0	95.0	0.002	0.82	0.30	16.5	3	1.3	429	3.36	<0.05	6.9	1.530	0.98
M398958																
M398959		390	10.4	74.5	<0.002	1.16	2.20	8.8	1	1.1	558	0.37	0.05	6.2	0.198	1.27
M398960		360	7.7	16.5	<0.002	0.55	0.81	2.1	1	0.3	1325	0.07	0.06	1.4	0.041	0.71
M398961		330	2.3	12.5	<0.002	0.35	0.94	1.7	1	0.2	1385	0.06	0.06	1.1	0.031	0.64
M398962		240	2.8	16.6	0.002	0.47	1.52	2.2	1	0.2	1165	0.08	0.07	1.5	0.041	0.85
M398963		250	4.1	23.6	0.003	0.67	3.06	3.0	1	0.4	1075	0.14	0.08	2.2	0.072	0.90
M398964		4260	3.9	121.5	0.002	4.08	5.94	12.9	2	1.1	832	2.85	<0.05	5.9	1.295	2.73
M398965		3980	3.0	116.0	0.002	3.67	5.46	12.5	2	1.1	695	2.79	<0.05	5.7	1.240	2.45
M398966		410	3.2	21.1	0.002	0.49	2.12	2.6	1	0.3	1410	0.15	<0.05	1.7	0.075	0.58
M398967		460	3.4	22.2	0.002	0.67	0.79	2.8	1	0.3	1640	0.12	<0.05	1.8	0.062	1.38

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233187**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M398532		3.0	84	5.3	18.1	119	102.5
M398533		2.2	117	3.5	21.4	101	112.0
M398534		1.7	129	6.3	29.4	56	102.0
M398535		1.5	111	6.4	16.8	63	85.4
M398536		1.3	105	9.0	14.1	50	77.5
M398537		0.5	2	0.1	0.8	16	0.5
M398538		0.9	61	2.4	10.5	31	46.2
M398539		1.7	120	5.3	20.0	89	98.2
M398540		1.7	120	4.8	19.4	173	98.3
M398541		1.7	131	4.8	18.0	77	101.0
M398542		1.5	120	2.8	16.5	53	91.6
M398543		5.3	53	38.8	9.5	30	118.0
M398544		1.6	120	3.1	15.6	64	93.4
M398545		1.1	90	3.6	22.6	41	66.6
M398546		1.7	129	5.4	16.8	42	90.3
M398547		1.7	124	5.1	19.1	44	88.1
M398548		1.4	109	3.8	14.0	37	78.0
M398549		1.1	178	10.8	29.0	93	132.0
M398550		1.4	157	13.6	29.4	92	126.0
M398951		0.7	1	0.1	0.8	15	0.7
M398952		1.9	63	2.8	18.9	33	69.0
M398953		2.1	91	9.6	25.3	47	87.2
M398954		1.4	183	15.5	33.8	90	159.0
M398955		2.2	117	5.4	19.8	43	105.5
M398956		1.5	182	14.6	34.5	100	162.5
M398957		1.6	198	10.4	35.7	102	165.5
M398958							
M398959		2.2	53	3.1	16.3	33	53.6
M398960		2.2	12	0.6	9.7	7	12.1
M398961		1.9	9	0.5	9.6	4	10.2
M398962		2.1	12	0.9	10.9	7	13.4
M398963		2.6	19	1.7	13.7	11	20.3
M398964		1.4	170	22.6	32.6	76	139.0
M398965		1.3	160	21.9	31.5	72	134.0
M398966		2.3	18	1.4	12.8	7	18.2
M398967		2.7	17	0.9	13.5	11	18.7

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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233187**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**CERTIFICATE WH12233188**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 383  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233188**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396927		7.41	<0.01	0.06	4.95	58.8	230	1.19	0.16	3.59	0.06	52.6	15.4	62	26.9	44.6
M396928		7.24	<0.01	0.07	5.47	103.5	280	1.43	0.18	3.00	0.19	56.7	16.3	64	19.10	46.4
M396929		7.65	0.11	0.05	7.09	448	220	2.50	0.23	1.40	0.03	74.9	21.7	76	36.4	55.5
M396930		7.13	<0.01	0.06	8.12	85.9	260	2.47	0.25	0.85	<0.02	73.8	23.1	93	45.5	61.5
M396931		4.93	<0.01	0.03	0.08	<5	40	0.06	0.02	21.0	0.06	1.72	1.6	<1	0.27	1.8
M396932		5.81	<0.01	0.08	8.04	23.5	250	2.11	0.25	1.63	0.03	77.6	21.5	93	46.4	54.6
M396933		2.60	<0.01	0.04	6.21	104.5	190	1.93	0.20	5.26	0.09	66.5	14.8	61	27.4	34.1
M396934		4.65	<0.01	0.01	1.21	63	170	0.46	0.05	32.6	0.08	20.1	4.2	8	3.60	11.2
M396935		7.18	<0.01	0.01	0.74	14	120	0.22	0.04	33.8	0.08	15.10	3.0	2	1.91	8.2
M396936		3.62	<0.01	0.01	0.62	15	130	0.25	0.03	34.4	0.09	13.80	2.6	1	1.67	7.1
M396937		7.42	<0.01	0.01	0.68	21	110	0.24	0.03	34.0	0.10	14.25	3.0	1	1.56	7.9
M396938		7.63	0.02	0.02	1.02	40	110	0.34	0.05	31.9	0.09	19.55	3.7	5	2.32	11.0
M396939		0.21	0.25	0.79	1.90	462	420	0.37	0.21	1.17	0.41	43.5	4.0	80	2.18	44.6
M396940		7.47	<0.01	0.01	0.60	26	110	0.29	0.03	34.4	0.08	11.60	2.7	1	1.40	7.4
M396941		7.24	0.01	0.01	0.77	26	110	0.35	0.04	33.3	0.07	14.20	3.1	3	2.30	9.3
M396942		7.56	0.15	0.01	0.54	164	130	0.28	0.03	34.1	0.06	12.90	2.4	<1	1.39	6.8
M396943		7.62	<0.01	<0.01	0.40	22	100	0.21	0.02	34.4	0.04	8.85	2.0	<1	0.94	5.2
M396944		4.97	<0.01	<0.01	0.05	<5	20	0.06	0.01	20.1	0.06	1.25	1.4	<1	0.14	1.4
M396945		7.66	<0.01	<0.01	0.52	<5	210	0.27	0.03	34.4	0.05	11.05	2.6	<1	1.57	6.8
M396946		7.56	<0.01	0.01	0.88	<5	100	0.26	0.05	32.2	0.08	17.60	3.4	4	3.25	10.1
M396947		7.21	<0.01	0.02	1.08	<5	150	0.36	0.06	32.2	0.15	18.65	4.2	5	3.80	12.1
M396948		7.55	<0.01	0.02	0.77	10	160	0.31	0.05	33.3	0.15	14.15	2.9	3	2.06	7.8
M396949		7.63	<0.01	0.01	0.64	<5	140	0.30	0.04	32.0	0.06	10.20	2.4	2	1.96	6.3
M396950		6.95	<0.01	0.02	1.41	10	200	0.47	0.08	29.8	0.24	19.20	4.7	10	4.39	13.1
M396951		7.44	<0.01	0.01	0.69	6	150	0.33	0.04	32.6	0.08	13.10	2.5	3	2.31	7.0
M396952		7.56	<0.01	0.01	0.53	<5	120	0.25	0.03	33.6	0.05	9.08	2.0	<1	1.26	5.5
M396953		<0.02	0.01	0.01	0.53	5	130	0.28	0.03	33.6	0.07	9.18	2.0	<1	1.28	6.0
M396954		7.26	<0.01	0.03	1.45	10	310	0.44	0.07	30.2	0.14	20.8	4.8	10	4.14	13.7
M396955		7.67	<0.01	0.01	0.51	<5	210	0.22	0.02	34.8	0.04	8.54	1.8	<1	1.26	7.3
M396956		7.64	<0.01	0.01	0.60	7	230	0.24	0.03	32.1	0.06	10.20	2.3	2	1.67	6.3
M396957		7.64	<0.01	0.02	0.88	8	170	0.33	0.04	32.8	0.11	14.35	3.1	4	2.40	9.1
M396958		7.49	<0.01	0.03	1.79	9	260	0.54	0.09	28.5	0.16	25.7	6.5	15	5.01	18.4
M396959		7.63	<0.01	0.08	2.04	17	190	0.75	0.10	26.4	0.16	26.6	7.0	18	5.50	20.0
M396960		7.20	<0.01	0.10	3.15	13	250	1.08	0.15	21.7	0.23	41.6	11.4	29	11.50	30.3
M396961		0.21	0.24	0.64	1.89	486	390	0.34	0.22	1.11	0.37	33.6	4.1	82	2.04	37.8
M396962		7.85	0.02	0.06	2.77	18	240	0.83	0.14	24.3	0.22	36.9	9.0	26	8.61	25.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233188**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M396927		4.17	12.15	0.15	2.8	0.04	0.048	1.91	25.7	85.3	2.32	593	0.41	0.46	8.0	33.1
M396928		4.30	13.10	0.17	2.8	0.16	0.051	2.47	27.7	50.5	2.15	555	0.96	0.03	8.3	34.0
M396929		5.10	18.05	0.22	3.2	0.94	0.069	3.42	37.6	27.7	1.06	409	0.32	0.03	9.7	40.2
M396930		5.03	21.9	0.23	3.1	0.57	0.086	4.06	35.8	41.0	1.19	355	0.28	0.03	10.3	41.0
M396931		0.49	0.31	0.06	<0.1	<0.01	0.005	0.04	0.8	1.4	13.00	206	0.13	0.01	0.4	1.9
M396932		4.90	20.2	0.21	3.1	0.28	0.085	3.85	38.6	59.4	1.38	384	0.24	0.04	9.7	37.9
M396933		4.81	16.65	0.20	2.7	0.64	0.068	2.96	33.9	43.8	2.24	902	0.32	0.03	8.1	29.0
M396934		0.76	3.22	0.07	0.6	0.95	0.013	0.60	10.3	4.2	0.56	172	0.60	0.01	2.0	6.1
M396935		0.53	1.88	0.10	0.4	0.44	0.009	0.35	7.7	3.0	0.42	120	0.47	0.01	1.4	4.0
M396936		0.47	1.60	0.08	0.4	0.35	0.010	0.30	7.1	2.9	0.41	130	0.47	0.01	1.2	3.5
M396937		0.48	1.73	0.07	0.3	0.42	0.007	0.32	7.2	3.3	0.39	109	0.41	0.02	1.3	3.8
M396938		0.72	2.59	0.10	0.5	1.12	0.011	0.50	10.5	4.2	0.49	177	0.52	0.02	1.8	5.9
M396939		4.03	5.25	0.14	3.6	3.95	0.031	0.44	23.9	27.7	0.06	76	15.75	0.12	8.0	19.6
M396940		0.52	1.56	0.08	0.3	0.46	0.008	0.28	5.8	2.9	0.43	146	0.42	0.01	1.2	4.0
M396941		0.63	1.91	0.07	0.4	0.38	0.010	0.38	7.4	4.3	0.48	161	0.45	0.01	1.5	4.8
M396942		0.42	1.42	0.09	0.3	0.46	0.006	0.25	6.3	3.2	0.40	133	0.31	0.02	1.1	3.4
M396943		0.32	1.07	0.09	0.2	0.16	0.006	0.18	4.4	2.6	0.36	158	0.29	0.01	0.9	2.9
M396944		0.46	0.26	0.06	<0.1	<0.01	0.005	0.02	0.6	1.1	12.40	199	0.15	0.01	0.3	2.1
M396945		0.38	1.40	0.09	0.3	0.06	0.008	0.24	5.5	3.3	0.40	301	0.32	0.02	1.1	4.2
M396946		0.71	2.23	0.10	0.5	0.11	0.012	0.42	9.1	5.7	0.49	98	0.63	0.02	1.6	6.0
M396947		0.81	2.68	0.10	0.6	0.15	0.015	0.52	9.9	6.0	0.42	88	0.83	0.02	1.8	7.6
M396948		0.62	2.08	0.06	0.4	0.09	0.009	0.38	7.2	3.7	0.46	138	0.50	0.02	1.1	5.5
M396949		0.53	1.78	<0.05	0.4	0.06	0.008	0.31	4.7	3.8	0.65	269	0.30	0.03	0.9	4.6
M396950		1.03	3.77	0.06	0.7	0.14	0.016	0.69	9.9	7.3	0.78	319	0.84	0.04	2.0	9.0
M396951		0.57	1.92	0.05	0.4	0.06	0.008	0.34	5.9	4.2	0.68	301	0.50	0.02	0.9	5.0
M396952		0.50	1.39	<0.05	0.3	0.04	0.007	0.23	4.1	3.5	0.63	483	0.40	0.04	0.7	4.1
M396953		0.50	1.44	<0.05	0.3	0.05	0.008	0.24	4.1	3.4	0.64	480	0.39	0.04	0.7	4.0
M396954		1.06	3.85	0.07	0.9	0.12	0.016	0.68	10.6	7.2	0.87	265	1.08	0.06	2.0	9.4
M396955		0.44	1.32	0.05	0.3	0.03	0.005	0.22	3.9	3.2	0.58	330	0.33	0.05	0.7	7.1
M396956		0.49	1.67	0.05	0.3	0.05	0.007	0.28	4.6	3.3	0.50	228	0.36	0.04	0.8	4.3
M396957		0.68	2.39	0.05	0.5	0.06	0.010	0.42	7.0	4.9	0.67	288	0.60	0.02	1.2	6.0
M396958		1.41	4.76	0.07	0.9	0.10	0.020	0.85	13.0	9.4	1.03	318	1.37	0.03	2.5	12.1
M396959		1.56	5.66	0.08	1.1	0.18	0.023	0.96	13.6	10.2	1.05	846	1.29	0.04	2.9	13.5
M396960		2.42	8.44	0.10	1.6	0.17	0.037	1.45	21.5	15.1	1.37	648	1.64	0.11	4.5	19.9
M396961		3.95	5.43	0.07	3.7	4.10	0.031	0.45	16.5	24.4	0.06	79	14.65	0.12	8.2	17.4
M396962		1.94	7.46	0.09	1.5	0.19	0.029	1.29	18.9	11.7	1.13	400	1.41	0.10	3.9	16.8

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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233188**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396927		490	13.5	108.0	<0.002	0.08	0.31	14.2	1	1.5	139.5	0.60	<0.05	8.5	0.465	0.55
M396928		400	15.3	131.0	<0.002	0.23	0.48	14.5	1	1.6	154.0	0.61	0.06	9.2	0.442	0.77
M396929		280	17.0	187.0	<0.002	4.19	1.42	20.7	1	2.2	96.7	0.72	<0.05	11.5	0.444	3.57
M396930		190	16.7	197.0	0.002	2.30	0.42	24.0	1	2.5	93.6	0.77	<0.05	11.6	0.469	2.14
M396931		200	1.3	1.9	<0.002	0.01	<0.05	0.3	1	<0.2	47.7	<0.05	<0.05	<0.2	0.005	<0.02
M396932		180	14.3	188.5	<0.002	1.37	0.37	22.2	1	2.5	121.0	0.73	<0.05	12.1	0.461	1.41
M396933		280	13.0	152.0	<0.002	2.88	0.43	16.0	1	2.0	223	0.59	<0.05	10.3	0.353	1.35
M396934		330	3.6	30.6	0.002	0.70	0.33	3.3	1	0.4	1255	0.12	<0.05	2.3	0.067	1.73
M396935		170	2.8	17.3	<0.002	0.50	0.18	2.1	1	0.3	1420	0.08	<0.05	1.5	0.041	1.08
M396936		160	2.3	14.5	0.002	0.42	0.16	1.9	1	0.2	1430	0.07	0.06	1.2	0.036	0.87
M396937		240	2.6	15.9	<0.002	0.43	0.15	1.8	1	0.2	1540	0.07	<0.05	1.3	0.038	0.74
M396938		120	3.6	24.9	<0.002	0.67	0.20	2.8	1	0.3	1475	0.11	0.07	2.0	0.057	1.18
M396939		280	17.2	18.3	0.002	0.88	63.4	5.0	3	2.6	230	0.53	0.12	4.7	0.320	11.80
M396940		130	2.1	14.0	<0.002	0.48	0.16	2.1	1	0.2	1375	0.06	0.05	1.1	0.038	0.52
M396941		140	2.6	19.9	0.002	0.60	0.15	2.4	1	0.3	1290	0.08	0.06	1.4	0.048	0.64
M396942		390	2.1	13.0	0.002	0.36	0.13	1.9	1	0.2	1675	0.06	0.05	1.1	0.030	0.70
M396943		180	1.5	9.3	0.002	0.25	0.08	1.3	1	0.2	1530	<0.05	0.05	0.8	0.022	0.27
M396944		160	1.1	1.1	<0.002	<0.01	<0.05	0.3	<1	<0.2	49.6	<0.05	<0.05	<0.2	<0.005	<0.02
M396945		270	1.9	12.9	<0.002	0.32	0.11	1.5	1	0.2	1625	0.06	0.05	1.0	0.030	0.11
M396946		120	3.3	22.0	0.003	0.60	0.17	2.4	2	0.3	1990	0.09	0.06	1.8	0.050	0.22
M396947		90	3.7	26.4	0.003	0.74	0.18	3.0	1	0.4	1765	0.11	0.07	2.1	0.059	0.43
M396948		790	2.8	16.7	0.005	0.53	0.22	2.7	1	0.4	1905	0.08	<0.05	1.4	0.044	0.25
M396949		510	2.2	14.0	0.003	0.41	0.20	1.9	1	0.3	1505	0.06	<0.05	1.1	0.036	0.15
M396950		160	4.7	30.1	0.006	0.92	0.29	3.3	1	0.5	1325	0.14	<0.05	2.4	0.080	0.29
M396951		1250	2.4	15.0	0.005	0.45	0.22	2.2	1	0.3	1585	0.07	<0.05	1.2	0.038	0.15
M396952		760	1.9	10.1	0.004	0.36	0.18	1.5	1	0.3	1605	0.05	<0.05	0.9	0.029	0.11
M396953		910	1.9	10.2	0.004	0.37	0.18	1.5	1	0.3	1595	0.05	<0.05	1.0	0.029	0.13
M396954		440	4.9	30.5	0.005	0.93	0.30	3.6	1	0.6	1695	0.15	<0.05	2.5	0.081	0.26
M396955		570	1.8	9.2	0.003	0.31	0.18	1.5	1	0.3	1770	0.05	<0.05	0.9	0.028	0.08
M396956		1180	2.3	12.5	0.004	0.38	0.20	1.7	1	0.3	1840	0.06	<0.05	1.1	0.033	0.11
M396957		1190	3.1	18.6	0.004	0.57	0.21	2.4	1	0.4	1845	0.09	<0.05	1.6	0.049	0.13
M396958		350	6.1	38.9	0.007	1.18	0.32	4.8	2	0.7	1965	0.18	<0.05	3.0	0.104	0.27
M396959		190	7.0	44.7	0.007	1.08	0.47	5.5	1	0.7	1505	0.22	<0.05	3.5	0.120	0.49
M396960		280	10.2	66.0	0.008	1.89	0.48	8.7	2	1.0	1465	0.34	0.07	5.2	0.191	0.57
M396961		290	18.8	16.2	0.004	0.88	54.9	5.0	2	2.3	215	0.49	0.13	3.3	0.314	11.35
M396962		220	8.7	57.5	0.008	1.46	0.59	7.1	2	0.9	1700	0.30	0.06	4.7	0.165	0.78



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**CERTIFICATE OF ANALYSIS WH12233188**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M396927		1.7	119	0.8	17.4	54	90.9
M396928		1.9	117	1.8	17.7	152	92.4
M396929		2.2	141	4.3	21.8	55	107.0
M396930		2.0	165	2.7	20.2	57	97.4
M396931		0.9	3	<0.1	1.0	14	0.6
M396932		2.1	154	1.3	19.3	68	99.6
M396933		2.4	110	1.5	20.5	106	89.5
M396934		2.6	20	0.5	12.9	12	20.3
M396935		2.7	12	0.2	11.8	8	13.5
M396936		2.4	10	0.1	11.3	8	11.4
M396937		2.6	11	0.3	11.4	7	11.4
M396938		2.6	17	0.6	12.8	12	17.6
M396939		6.3	53	36.0	10.0	26	119.0
M396940		2.0	10	0.4	9.6	8	11.3
M396941		2.1	13	0.2	9.9	8	13.8
M396942		2.9	9	0.2	12.8	2	12.3
M396943		1.9	7	0.1	8.3	2	8.1
M396944		0.6	2	<0.1	0.8	13	<0.5
M396945		2.0	8	0.1	9.4	3	9.6
M396946		2.9	15	0.2	11.3	14	15.5
M396947		2.5	18	0.2	10.3	21	19.2
M396948		2.7	14	0.3	15.1	24	16.2
M396949		1.7	12	0.2	9.4	8	13.0
M396950		1.9	25	0.3	10.4	55	23.9
M396951		2.4	13	0.2	12.0	9	15.3
M396952		1.9	10	0.1	8.6	6	10.6
M396953		2.0	10	0.1	9.0	7	11.7
M396954		3.1	26	0.3	13.7	19	24.9
M396955		1.6	9	0.1	8.1	6	11.5
M396956		2.2	11	0.1	9.0	7	14.2
M396957		2.8	17	0.2	11.9	16	18.7
M396958		3.2	34	0.4	15.3	30	31.5
M396959		2.1	41	0.4	16.2	36	37.0
M396960		2.7	60	0.6	22.2	53	53.7
M396961		5.4	53	36.6	9.9	29	119.5
M396962		2.8	51	0.7	20.2	48	47.3



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 14- OCT- 2012  
Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233188**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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 30- OCT- 2012  
 Account: RCM

**CERTIFICATE WH12252010**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 386  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12233301 \*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12252010**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
M396963		0.01
M396964		<0.01
M396965		<0.01
M396966		<0.01
M396967		0.03
M396968		<0.01
M396969		<0.01
M396970		<0.01
M396971		<0.01
M396972		<0.01
M396973		0.26
M396974		<0.01
M396975		<0.01
M396976		<0.01
M396977		<0.01
M396978		<0.01
M396979		<0.01
M396980		<0.01
M396981		<0.01
M396982		<0.01
M396983		<0.01
M396984		<0.01
M396985		<0.01
M396986		<0.01
M396987		<0.01
M396988		<0.01
M396989		<0.01
M396990		<0.01
M396991		<0.01
M396992		<0.01
M396993		0.26
M396994		<0.01
M396995		<0.01
M396996		<0.01
M396997		<0.01
M396998		<0.01

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12233301 \*\*





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Page: 1  
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**CERTIFICATE WH12233302**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 387  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 12- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH1223302**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398968		7.22	<0.01	<0.01	5.99	69.7	510	0.83	0.03	8.47	0.14	120.5	26.5	9	23.8	11.8
M398969		7.47	<0.01	<0.01	4.98	268	180	0.56	0.02	12.05	0.11	95.5	21.6	6	16.70	8.6
M398970		4.10	<0.01	0.02	1.80	779	200	0.43	0.07	29.2	0.11	21.9	7.8	14	4.18	18.0
M398971		7.67	<0.01	0.02	1.92	34	180	0.43	0.08	27.2	0.16	25.5	8.0	16	6.40	21.0
M398972		7.13	<0.01	0.01	1.10	23	130	0.29	0.05	31.4	0.13	16.40	4.7	7	3.32	12.7
M398973		4.20	0.02	0.09	1.01	26	130	0.27	0.04	30.3	0.13	16.50	4.5	6	3.17	12.0
M398974		7.95	<0.01	0.03	1.46	46	160	0.30	0.06	29.0	0.13	19.85	5.5	11	4.27	14.9
M398975		7.56	0.18	0.08	2.47	206	220	0.49	0.11	23.6	0.22	35.8	10.1	22	9.54	27.1
M398976		7.42	0.27	0.03	3.62	344	270	0.64	0.15	18.00	0.24	43.2	13.1	37	16.25	37.3
M398977		8.07	0.94	0.06	2.85	744	220	0.56	0.12	22.1	0.23	38.4	11.3	28	14.70	31.3
M398978		7.74	0.73	0.08	2.01	637	210	0.35	0.07	25.7	0.20	27.1	8.6	21	7.65	22.7
M398979		4.88	<0.01	0.01	0.05	<5	30	0.08	0.02	20.7	0.06	1.19	1.6	<1	0.16	1.6
M398980		7.92	0.02	0.03	1.78	115	180	0.40	0.07	27.4	0.15	29.6	6.7	16	5.26	18.9
M398981		7.89	0.10	<0.01	3.36	1510	170	0.41	0.05	20.8	0.14	58.6	12.8	13	7.76	14.8
M398982		7.44	<0.01	0.02	1.39	59	150	0.43	0.06	30.1	0.11	23.9	5.7	10	4.19	15.4
M398983		0.26	0.25	0.75	1.78	446	750	0.36	0.20	1.09	0.40	38.0	4.2	74	2.32	43.7
M398984		8.41	<0.01	0.02	1.15	10	230	0.40	0.05	30.9	0.11	19.45	4.5	7	4.01	12.5
M398985		7.59	<0.01	0.01	0.50	<5	230	0.24	0.02	32.0	0.06	9.28	2.2	<1	1.00	5.8
M398986		6.63	<0.01	0.02	1.18	12	190	0.41	0.05	31.2	0.14	22.0	5.0	8	4.50	13.7
M398987		6.88	<0.01	0.02	1.23	8	350	0.39	0.05	29.0	0.12	20.5	4.8	8	5.97	13.2
M398988		6.71	<0.01	0.02	1.22	12	210	0.45	0.06	30.6	0.14	23.8	5.1	8	6.54	14.1
M398989		6.57	<0.01	0.04	2.05	15	200	0.58	0.09	28.1	0.19	34.2	7.7	16	9.46	21.2
M398990		6.47	<0.01	0.04	3.01	10	260	0.71	0.11	21.5	0.18	42.6	13.6	35	13.80	33.8
M398991		<0.02	<0.01	0.04	2.96	15	260	0.66	0.10	21.1	0.19	40.4	12.6	35	12.90	31.7
M398992		7.40	<0.01	0.02	1.49	18	210	0.47	0.06	29.7	0.12	26.8	6.8	12	8.14	17.9
M398993		6.87	<0.01	0.01	0.54	7	100	0.28	0.02	33.2	0.10	11.80	2.6	2	3.22	6.6
M398994		7.32	<0.01	0.01	0.48	<5	100	0.21	0.02	31.8	0.08	11.05	2.2	<1	1.73	5.3
M398995		7.27	<0.01	<0.01	0.19	<5	80	0.12	0.01	33.4	0.05	5.10	1.4	<1	0.28	2.4
M398996		0.26	0.27	0.71	1.81	466	740	0.39	0.20	1.13	0.40	40.2	4.6	76	2.44	46.7
M398997		7.40	<0.01	0.01	0.39	6	130	0.20	0.02	34.6	0.07	8.61	2.1	<1	1.66	4.8
M398998		7.94	<0.01	0.03	1.31	16	150	0.50	0.06	28.1	0.15	27.6	5.4	9	7.54	14.5
M398999		8.14	<0.01	0.03	1.35	11	170	0.44	0.06	30.2	0.16	28.7	5.8	9	8.62	15.4
M399000		7.83	<0.01	0.02	0.88	17	120	0.33	0.04	32.0	0.12	18.80	3.9	4	4.41	10.4
M399201		7.74	<0.01	0.03	1.06	40	130	0.43	0.05	32.0	0.14	21.8	4.7	6	5.00	12.7
M399202		5.12	0.18	0.11	0.63	>10000	130	0.16	0.03	31.7	0.10	12.70	3.2	2	1.27	8.3
M399203		4.97	<0.01	<0.01	0.05	23	20	0.07	0.01	20.1	0.04	1.16	1.7	<1	0.18	2.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 12- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH1223302**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398968		6.43	17.30	0.24	3.3	0.16	0.066	1.90	59.1	155.0	2.07	1070	2.16	0.67	61.0	7.5
M398969		5.61	13.25	0.17	2.6	0.44	0.051	1.39	47.6	184.5	1.57	1020	1.63	0.43	48.1	4.5
M398970		1.65	5.42	0.05	0.7	0.75	0.016	0.85	10.4	6.6	0.89	462	0.91	0.02	3.8	7.4
M398971		1.41	5.50	0.05	0.8	0.85	0.019	0.92	12.4	6.0	0.69	326	0.74	0.02	3.6	7.1
M398972		0.90	3.26	<0.05	0.4	0.53	0.010	0.52	7.9	4.0	0.54	277	0.53	0.01	2.2	0.6
M398973		0.82	3.16	0.05	0.4	0.47	0.010	0.50	7.9	3.6	0.51	253	0.50	0.01	2.1	1.0
M398974		1.16	4.12	0.05	0.6	0.83	0.013	0.72	9.8	4.3	0.57	320	0.65	0.01	2.7	3.9
M398975		1.81	7.62	0.08	1.1	4.36	0.024	1.18	18.4	6.8	0.87	369	1.19	0.02	4.5	12.2
M398976		2.54	10.85	0.08	1.6	6.54	0.035	1.80	22.6	9.7	1.50	465	1.56	0.02	6.1	19.0
M398977		2.12	8.59	0.07	1.3	12.9	0.027	1.36	19.7	8.5	0.79	536	1.33	0.02	5.1	14.7
M398978		1.84	5.69	0.06	0.8	10.1	0.020	0.93	13.8	5.4	0.65	645	0.75	0.02	3.2	9.7
M398979		0.46	0.36	0.17	<0.1	0.02	<0.005	0.02	0.6	1.0	12.90	196	0.06	<0.01	0.3	<0.2
M398980		1.58	4.81	0.05	0.7	2.13	0.019	0.85	15.1	4.8	1.08	508	0.81	0.02	2.9	6.7
M398981		3.08	8.87	0.08	1.5	3.38	0.035	1.48	29.4	18.1	1.25	633	1.03	0.02	21.2	4.6
M398982		1.12	4.24	0.05	0.5	0.85	0.015	0.67	12.5	4.3	0.67	300	0.40	0.01	2.4	3.8
M398983		3.79	5.94	0.08	2.7	3.75	0.029	0.41	20.2	22.5	0.06	73	15.75	0.11	7.9	17.4
M398984		0.98	3.35	0.06	0.4	0.45	0.011	0.56	9.9	3.9	0.58	452	0.41	0.02	2.0	2.2
M398985		0.63	1.43	<0.05	0.1	0.10	0.005	0.20	4.6	1.6	0.57	420	0.18	0.02	0.8	<0.2
M398986		0.92	3.64	0.05	0.4	0.13	0.012	0.58	10.9	4.6	0.61	296	0.49	0.01	2.2	2.4
M398987		1.00	3.57	<0.05	0.4	0.12	0.013	0.60	10.2	5.7	0.68	340	0.43	0.01	2.1	3.0
M398988		1.02	3.67	0.05	0.5	0.24	0.013	0.61	12.0	5.4	0.62	281	0.47	0.01	2.2	2.8
M398989		1.44	5.86	0.06	0.8	0.27	0.021	1.00	17.7	6.6	0.81	323	0.69	0.02	3.4	7.6
M398990		2.27	8.78	0.07	1.3	0.19	0.034	1.46	22.3	9.5	0.90	374	0.66	0.02	5.1	18.8
M398991		2.23	8.23	0.07	1.2	0.20	0.030	1.43	20.7	8.4	0.90	375	0.61	0.02	4.5	17.1
M398992		1.24	4.60	0.05	0.6	0.08	0.017	0.73	14.0	6.8	0.83	353	0.42	0.02	2.4	5.2
M398993		0.46	1.61	<0.05	0.1	0.05	0.006	0.26	6.1	2.8	0.85	230	0.23	0.01	1.0	<0.2
M398994		0.38	1.57	0.05	0.1	0.05	0.005	0.24	5.4	2.2	0.61	200	0.21	0.01	0.9	<0.2
M398995		0.25	0.60	0.05	<0.1	0.03	<0.005	0.08	2.3	1.1	0.64	180	0.10	0.01	0.5	<0.2
M398996		3.88	6.43	0.09	2.7	3.60	0.027	0.43	21.9	23.9	0.06	75	14.80	0.11	7.3	19.3
M398997		0.35	1.18	<0.05	0.1	0.12	<0.005	0.18	4.4	2.0	0.75	177	0.19	0.01	0.8	<0.2
M398998		0.86	4.07	0.05	0.5	0.21	0.015	0.65	14.5	6.4	1.08	256	0.41	0.02	2.1	3.7
M398999		0.96	4.21	0.05	0.5	0.10	0.013	0.67	14.1	6.9	0.74	149	0.39	0.02	2.3	3.4
M399000		0.72	2.72	0.05	0.3	0.11	0.010	0.44	9.0	4.1	0.68	226	0.36	0.01	1.5	0.6
M399201		0.77	3.29	0.07	0.4	0.21	0.013	0.52	11.1	5.0	0.61	135	0.39	0.01	1.7	2.1
M399202		0.52	1.89	0.06	0.2	2.69	0.031	0.28	6.2	2.2	0.47	255	0.24	0.01	1.1	<0.2
M399203		0.45	0.42	0.20	<0.1	<0.01	<0.005	0.02	0.6	1.0	12.55	204	0.09	<0.01	0.2	0.3

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 12- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233302**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398968		4130	3.3	97.3	0.004	0.60	0.35	16.2	4	1.2	480	3.22	<0.05	6.4	1.370	0.98
M398969		3570	2.6	69.6	0.002	1.53	0.37	12.5	3	0.9	694	2.62	<0.05	4.9	1.145	1.80
M398970		200	7.8	42.3	0.003	1.06	0.88	5.2	2	0.5	1570	0.22	<0.05	3.1	0.119	2.64
M398971		210	6.7	44.7	0.003	1.10	0.26	6.0	2	0.5	1545	0.23	<0.05	3.4	0.131	2.54
M398972		660	4.1	26.6	0.002	0.65	0.24	4.1	2	0.3	1775	0.13	<0.05	2.0	0.071	1.62
M398973		650	3.9	24.7	0.002	0.58	0.23	3.9	2	0.3	1825	0.12	<0.05	1.9	0.066	1.42
M398974		420	4.9	32.2	0.002	0.90	0.57	4.4	2	0.4	1935	0.17	<0.05	2.5	0.101	2.25
M398975		250	9.0	57.8	0.004	1.59	11.95	8.2	2	0.7	1460	0.31	0.06	4.6	0.160	18.40
M398976		190	11.8	82.5	0.005	2.14	13.85	11.3	2	1.1	1070	0.42	0.05	6.3	0.238	27.0
M398977		230	9.7	67.1	0.005	2.02	49.3	8.5	2	0.9	1240	0.34	0.09	4.9	0.196	68.1
M398978		360	6.5	40.7	0.003	1.67	39.1	6.5	2	0.6	1335	0.22	0.07	3.2	0.148	51.8
M398979		190	1.4	1.1	<0.002	0.01	0.12	0.3	1	<0.2	51.5	<0.05	<0.05	<0.2	<0.005	0.13
M398980		340	6.1	33.6	0.004	1.11	2.91	7.0	2	0.5	1720	0.20	<0.05	3.1	0.116	5.62
M398981		1790	3.5	55.6	0.003	1.93	5.15	8.4	2	0.8	1210	1.17	<0.05	3.9	0.573	8.12
M398982		160	5.3	28.9	0.002	0.80	1.20	5.1	2	0.4	1930	0.15	<0.05	2.6	0.083	2.50
M398983		260	18.4	15.4	0.002	0.83	62.2	5.5	3	2.3	221	0.50	0.12	4.2	0.298	10.90
M398984		160	4.1	23.1	0.002	0.68	0.41	4.0	2	0.4	2010	0.13	<0.05	2.1	0.073	1.58
M398985		250	1.8	7.6	<0.002	0.28	0.16	2.2	1	0.2	2160	0.05	<0.05	0.8	0.029	0.48
M398986		320	4.7	25.2	0.002	0.69	0.25	4.1	2	0.4	1950	0.14	<0.05	2.5	0.075	1.25
M398987		500	4.2	25.4	0.002	0.75	0.22	4.2	2	0.4	1935	0.14	<0.05	2.2	0.080	1.43
M398988		280	4.9	26.6	0.002	0.87	0.24	4.2	2	0.4	2180	0.14	<0.05	2.5	0.080	1.78
M398989		630	7.2	41.5	0.003	1.25	0.28	6.1	2	0.6	1765	0.24	<0.05	3.8	0.131	1.60
M398990		270	9.6	60.4	0.003	2.14	0.36	9.9	2	1.0	1540	0.36	<0.05	5.1	0.251	0.79
M398991		260	9.0	55.0	0.002	2.09	0.34	9.2	2	0.9	1500	0.33	0.05	4.8	0.244	0.73
M398992		230	5.1	29.8	0.002	1.01	0.25	6.2	2	0.5	2200	0.16	<0.05	2.7	0.104	0.30
M398993		470	2.1	10.9	<0.002	0.36	0.14	2.1	2	0.2	1725	0.06	<0.05	1.1	0.030	0.17
M398994		410	2.0	9.8	<0.002	0.27	0.14	2.0	1	0.2	1760	0.05	<0.05	1.0	0.029	0.17
M398995		860	0.9	3.5	<0.002	0.14	0.08	1.2	2	<0.2	1825	<0.05	<0.05	0.4	0.010	0.05
M398996		260	18.0	14.8	0.002	0.84	61.0	5.9	3	2.2	226	0.48	0.12	4.2	0.307	10.80
M398997		1440	1.8	7.9	<0.002	0.24	0.24	1.8	2	0.2	2190	<0.05	<0.05	0.8	0.024	0.16
M398998		220	4.8	27.1	0.002	0.78	0.25	4.7	2	0.4	1480	0.15	<0.05	2.6	0.080	0.48
M398999		240	5.2	28.6	0.002	0.92	0.26	4.8	2	0.5	1985	0.15	0.05	2.9	0.087	0.45
M399000		530	3.9	17.8	<0.002	0.70	0.23	3.5	2	0.3	1765	0.10	<0.05	2.0	0.055	0.85
M399201		180	4.0	21.7	0.002	0.75	0.30	3.7	2	0.3	1950	0.11	<0.05	2.1	0.063	2.04
M399202		520	2.7	11.8	<0.002	2.03	78.8	2.1	4	0.2	1655	0.07	0.11	1.5	0.035	8.10
M399203		160	1.4	0.9	<0.002	0.01	0.09	0.3	1	<0.2	46.0	<0.05	<0.05	<0.2	<0.005	<0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233302**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
M398968		1.7	173	5.7	36.2	94	149.5	
M398969		1.3	148	9.9	28.1	78	117.5	
M398970		2.4	33	2.0	14.3	26	30.2	
M398971		3.0	35	0.5	18.6	29	32.4	
M398972		2.4	21	0.4	14.9	17	20.5	
M398973		2.4	19	0.4	15.0	17	18.8	
M398974		2.1	26	0.7	13.5	23	24.8	
M398975		3.2	46	1.5	24.3	36	41.3	
M398976		3.2	71	1.9	21.5	52	55.6	
M398977		2.8	56	2.2	23.6	44	47.6	
M398978		2.3	44	1.7	18.0	32	31.8	
M398979		0.6	2	0.1	0.8	14	<0.5	
M398980		2.8	37	1.6	22.7	25	27.1	
M398981		1.8	90	13.9	20.4	44	64.8	
M398982		2.1	26	1.8	17.3	19	20.7	
M398983		5.6	49	35.1	9.2	28	95.0	
M398984		1.8	21	0.9	13.2	16	17.5	
M398985		1.4	11	0.2	9.9	7	7.4	
M398986		2.5	22	0.3	14.4	18	19.1	
M398987		1.9	22	0.3	12.3	19	18.8	
M398988		2.5	22	0.6	13.4	18	18.9	
M398989		2.8	35	0.6	17.1	30	30.1	
M398990		2.6	67	0.7	20.5	43	44.6	
M398991		2.5	64	0.6	18.4	44	39.7	
M398992		2.3	30	0.3	15.5	23	22.9	
M398993		1.5	11	0.1	8.1	10	9.1	
M398994		1.4	10	0.3	8.6	8	8.7	
M398995		1.2	4	0.1	6.4	3	5.3	
M398996		5.7	52	33.5	8.6	27	90.0	
M398997		1.8	8	0.2	7.0	5	9.5	
M398998		2.3	24	0.4	14.2	20	18.0	
M398999		2.9	24	0.5	16.4	20	20.1	
M399000		2.7	16	0.2	12.0	11	13.7	
M399201		2.1	18	0.3	11.0	14	14.3	
M399202		2.1	12	0.4	10.5	7	11.1	2.98
M399203		0.4	2	0.1	0.7	14	<0.5	



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Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233302**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12233303**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 388  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH1223303**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M399204		3.07	0.13	0.13	0.99	162	130	0.26	0.04	34.3	0.11	14.05	2.9	4	2.15	9.1
M399205		7.65	<0.01	0.06	0.77	31	110	0.23	0.04	33.0	0.10	11.45	2.5	1	2.37	8.0
M399206		7.02	0.02	0.03	0.85	39	180	0.27	0.04	32.7	0.16	15.50	3.0	3	2.42	9.7
M399207		7.36	0.01	0.03	1.03	51	150	0.26	0.04	31.7	0.18	15.30	4.0	6	2.69	11.7
M399208		5.06	<0.01	0.40	0.07	5	20	0.06	0.05	20.8	0.07	1.07	0.7	<1	0.11	3.3
M399209		7.76	0.01	0.10	1.13	71	180	0.27	0.06	31.2	0.20	20.1	4.0	7	1.92	13.3
M399210		8.02	0.02	0.07	0.90	46	150	0.22	0.04	30.0	0.18	15.25	3.6	5	2.23	10.7
M399211		3.78	0.02	0.03	0.68	34	180	0.19	0.03	33.0	0.12	12.25	2.6	1	1.64	8.0
M399212		8.11	0.01	0.03	0.64	25	160	0.25	0.03	33.5	0.10	13.95	2.4	1	1.61	8.1
M399213		8.07	<0.01	0.02	0.43	16	110	0.23	0.02	35.2	0.05	8.64	1.6	<1	1.16	5.4
M399214		7.27	<0.01	0.02	0.77	24	130	0.24	0.04	34.6	0.20	16.00	2.8	2	1.89	9.3
M399215		7.29	<0.01	0.03	1.00	23	130	0.31	0.04	31.7	0.13	15.80	3.4	5	3.46	11.6
M399216		0.26	4.21	0.64	2.65	423	780	0.65	0.39	9.72	0.54	40.7	4.6	38	2.32	31.2
M399217		6.71	<0.01	0.09	0.67	23	160	0.27	0.04	34.4	0.10	12.95	2.4	1	1.92	7.9
M399218		7.18	0.01	0.04	0.53	30	100	0.20	0.03	34.7	0.07	8.74	2.1	<1	1.17	7.4
M399219		7.67	0.01	0.02	0.29	20	70	0.14	0.02	35.5	0.06	7.12	1.2	<1	0.61	3.5
M399220		8.04	0.02	0.03	0.45	25	90	0.17	0.03	34.4	0.08	8.51	1.7	<1	0.95	5.7
M399221		8.09	0.01	0.02	0.62	36	120	0.22	0.03	32.8	0.06	10.50	2.3	<1	1.37	6.8
M399222		7.63	<0.01	0.03	0.81	36	130	0.29	0.04	33.4	0.11	14.65	2.7	2	1.85	8.6
M399223		7.39	<0.01	0.02	0.87	40	130	0.25	0.04	32.4	0.13	15.30	2.8	3	2.46	9.1
M399224		4.88	<0.01	0.01	0.04	<5	50	0.06	0.02	20.4	0.06	0.98	0.6	<1	0.11	1.3
M399225		7.73	<0.01	0.02	0.64	23	170	0.25	0.03	33.6	0.09	10.95	2.3	<1	1.82	7.0
M399226		7.77	<0.01	0.03	1.19	29	200	0.36	0.05	31.2	0.20	18.15	4.1	6	5.84	13.3
M399227		7.38	<0.01	0.01	0.76	16	130	0.35	0.04	33.0	0.12	12.20	2.6	1	2.95	9.0
M399228		<0.02	<0.01	0.02	0.77	21	130	0.33	0.03	34.1	0.11	12.65	2.6	2	3.04	9.4
M399229		7.73	<0.01	0.02	1.04	26	160	0.33	0.06	32.7	0.16	18.60	3.6	5	4.58	11.8
M399230		7.40	<0.01	0.02	0.78	30	200	0.26	0.04	33.4	0.14	14.95	2.6	1	3.19	8.1
M399231		8.08	0.01	0.01	0.54	22	110	0.26	0.03	33.2	0.13	10.05	2.1	<1	1.54	6.6
M399232		6.99	0.01	0.01	0.40	19	120	0.22	0.02	34.6	0.06	7.44	1.5	<1	0.72	5.0
M399233		7.59	<0.01	0.01	0.37	20	100	0.20	0.02	34.3	0.06	7.86	1.4	<1	0.75	4.9
M399234		8.10	0.01	0.03	1.10	37	170	0.29	0.06	32.0	0.18	21.4	3.9	6	2.76	13.6
M399235		6.96	0.03	0.02	0.63	25	190	0.21	0.03	33.0	0.09	12.20	2.3	1	1.53	7.2
M399236		6.59	<0.01	0.01	0.27	13	180	0.23	0.01	35.3	0.05	6.21	1.2	<1	0.64	4.4
M399237		0.26	0.27	0.78	1.83	448	250	0.37	0.20	1.07	0.45	35.1	3.7	77	1.99	38.0
M399238		8.17	<0.01	0.08	0.72	30	190	0.26	0.04	33.7	0.17	15.10	2.6	2	2.46	8.7
M399239		8.03	0.02	0.08	0.62	21	140	0.28	0.03	34.0	0.12	11.55	2.3	1	1.80	7.4





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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH1223303**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
M399204		0.74	2.69	0.07	0.6	2.11	0.013	0.46	6.2	4.8	0.45	321	0.29	0.01	1.4	5.0
M399205		0.56	2.09	0.09	0.5	0.45	0.012	0.35	5.5	4.0	0.51	185	0.27	0.01	1.1	4.2
M399206		0.60	2.42	0.12	0.5	0.46	0.012	0.41	7.0	3.9	0.66	136	0.31	0.01	1.2	5.3
M399207		0.75	2.84	0.12	0.6	0.88	0.011	0.49	6.8	4.6	0.53	114	0.29	0.01	1.4	7.0
M399208		0.46	0.26	0.18	<0.1	<0.01	0.006	0.02	0.5	1.1	12.75	205	0.24	0.01	0.2	1.8
M399209		0.81	3.29	0.15	0.6	0.91	0.011	0.54	8.9	3.9	1.00	135	0.56	0.01	1.5	7.2
M399210		0.75	2.46	0.13	0.6	0.90	0.010	0.43	6.7	3.6	0.51	120	0.34	0.01	1.2	6.4
M399211		0.49	1.90	0.10	0.4	0.59	0.008	0.32	5.8	3.0	0.54	103	0.29	0.01	0.9	4.3
M399212		0.48	1.93	0.13	0.4	0.51	0.006	0.30	6.2	3.1	0.70	147	0.37	0.01	0.8	4.3
M399213		0.35	1.31	0.13	0.3	0.14	0.005	0.20	4.1	2.7	0.86	508	0.25	0.01	0.6	2.7
M399214		0.58	2.20	0.12	0.5	0.11	0.016	0.37	6.9	3.2	0.75	191	0.39	0.01	1.1	5.0
M399215		0.73	2.82	0.14	0.6	0.08	0.009	0.48	7.0	5.2	0.50	128	0.33	0.01	1.4	6.3
M399216		1.78	6.30	0.14	1.6	4.62	0.029	0.80	23.1	58.8	4.89	334	8.57	0.01	5.0	31.0
M399217		0.49	1.91	0.10	0.4	0.15	0.009	0.31	5.9	3.6	0.71	108	0.37	0.01	0.9	4.2
M399218		0.41	1.51	0.14	0.3	0.30	0.008	0.25	4.2	2.4	0.61	212	0.32	0.01	0.7	3.5
M399219		0.24	0.89	0.14	0.2	0.22	0.005	0.14	3.2	1.6	0.48	267	0.21	0.01	0.4	1.8
M399220		0.35	1.32	0.12	0.3	0.41	0.008	0.22	3.9	2.2	0.64	290	0.32	0.01	0.6	2.9
M399221		0.50	1.76	0.11	0.3	0.54	0.009	0.29	4.9	2.6	0.90	196	0.32	0.01	0.8	3.9
M399222		0.55	2.30	0.12	0.5	0.58	0.012	0.40	6.6	3.7	0.80	209	0.36	0.01	1.0	4.8
M399223		0.65	2.35	0.11	0.5	0.32	0.015	0.44	6.7	4.0	0.62	132	0.31	0.01	1.2	5.0
M399224		0.46	0.21	0.14	<0.1	<0.01	0.005	0.02	0.5	1.1	12.50	195	0.11	<0.01	0.2	1.7
M399225		0.48	1.70	0.14	0.4	0.07	0.009	0.30	5.3	3.3	0.66	111	0.27	0.01	0.9	3.9
M399226		0.91	3.18	0.14	0.7	0.09	0.011	0.59	8.3	6.5	1.03	125	0.51	0.02	1.6	7.4
M399227		0.52	2.08	0.11	0.5	0.07	0.009	0.36	6.0	4.6	0.94	141	0.31	0.01	1.0	4.7
M399228		0.54	2.20	0.13	0.4	0.07	0.010	0.38	6.1	4.9	0.98	146	0.35	0.02	1.0	4.7
M399229		0.73	2.88	0.12	0.7	0.10	0.012	0.50	8.6	5.5	0.91	124	0.43	0.02	1.5	6.4
M399230		0.51	2.20	0.13	0.5	0.17	0.011	0.37	6.8	4.4	0.51	64	0.37	0.01	1.0	4.7
M399231		0.42	1.62	0.11	0.3	0.15	0.009	0.25	4.9	3.2	0.63	139	0.29	0.01	0.7	3.4
M399232		0.32	1.18	0.10	0.2	0.19	0.007	0.18	3.7	2.1	0.83	388	0.22	0.01	0.5	2.4
M399233		0.31	1.06	0.11	0.2	0.16	0.006	0.17	3.7	2.4	0.74	417	0.20	0.01	0.5	2.3
M399234		0.80	3.15	0.12	0.6	0.61	0.013	0.53	9.2	5.4	0.72	151	0.69	0.01	1.4	7.5
M399235		0.42	1.73	0.12	0.4	0.39	0.009	0.29	5.9	3.2	0.52	92	0.30	0.01	0.8	3.7
M399236		0.26	0.80	0.11	0.2	0.06	0.005	0.13	2.9	2.0	0.49	59	0.18	0.01	0.4	2.0
M399237		3.86	5.39	0.10	3.8	3.86	0.031	0.42	18.0	28.6	0.06	73	13.50	0.11	7.0	17.3
M399238		0.53	2.02	0.09	0.4	0.24	0.010	0.34	6.5	4.0	0.75	100	0.39	0.02	1.0	4.8
M399239		0.46	1.71	0.10	0.4	0.32	0.006	0.30	5.6	3.5	0.83	214	0.37	0.01	0.8	4.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH1223303**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M399204		190	3.0	20.8	0.002	0.75	6.01	3.0	1	0.3	1395	0.10	<0.05	1.6	0.060	5.36
M399205		520	2.6	16.3	0.002	0.53	0.27	2.2	1	0.3	1630	0.09	<0.05	1.3	0.046	1.32
M399206		230	3.1	18.3	0.002	0.58	0.30	2.6	1	0.3	2180	0.09	<0.05	1.6	0.051	0.93
M399207		290	3.2	22.7	0.002	0.76	0.35	2.9	1	0.3	1940	0.10	<0.05	1.7	0.075	1.11
M399208		180	1.4	1.1	<0.002	<0.01	0.13	0.2	<1	<0.2	52.4	<0.05	<0.05	<0.2	<0.005	0.02
M399209		660	4.1	24.3	0.005	0.76	0.35	3.1	2	0.4	2100	0.10	<0.05	2.1	0.061	1.24
M399210		350	3.2	18.9	0.002	0.76	0.32	2.4	1	0.3	2140	0.09	<0.05	1.5	0.063	1.27
M399211		410	2.4	14.0	0.002	0.46	0.22	2.2	1	0.2	2450	0.07	<0.05	1.2	0.042	0.84
M399212		420	2.4	13.2	<0.002	0.45	0.23	2.1	1	0.2	2120	0.06	<0.05	1.2	0.035	0.88
M399213		190	1.6	9.0	<0.002	0.30	0.16	1.3	1	0.2	1705	<0.05	<0.05	0.8	0.023	0.48
M399214		190	3.1	15.3	<0.002	0.52	0.25	2.4	1	0.3	2050	0.08	<0.05	1.4	0.045	0.77
M399215		160	3.8	21.2	<0.002	0.70	0.27	2.9	1	0.3	1860	0.10	<0.05	1.7	0.064	0.51
M399216		530	9.1	44.2	0.010	1.37	88.0	4.4	2	2.4	58.9	0.35	0.17	5.8	0.146	2.35
M399217		140	2.6	13.6	0.003	0.45	0.28	2.0	1	0.2	2270	0.06	<0.05	1.2	0.037	0.75
M399218		900	2.3	10.1	<0.002	0.34	0.21	1.6	1	0.2	1785	0.06	<0.05	1.0	0.030	0.64
M399219		140	1.3	5.6	<0.002	0.19	0.14	1.1	1	<0.2	1700	<0.05	<0.05	0.6	0.015	0.39
M399220		170	1.8	9.0	0.002	0.30	0.21	1.4	1	0.2	1620	<0.05	<0.05	0.9	0.024	0.72
M399221		90	2.6	12.2	<0.002	0.42	0.25	1.7	1	0.2	1545	0.06	<0.05	1.2	0.033	1.01
M399222		170	2.8	16.7	<0.002	0.52	0.29	2.2	1	0.3	1810	0.08	<0.05	1.4	0.046	1.23
M399223		300	3.1	18.5	0.003	0.61	0.24	2.6	1	0.3	2200	0.09	<0.05	1.5	0.051	0.71
M399224		170	1.1	0.9	0.002	0.01	<0.05	0.2	1	<0.2	48.2	<0.05	<0.05	<0.2	<0.005	0.05
M399225		160	2.3	13.7	0.002	0.43	2.12	1.9	1	0.2	2380	0.07	<0.05	1.1	0.036	0.35
M399226		500	4.0	27.3	0.003	0.88	0.36	3.0	1	0.4	2240	0.12	<0.05	2.0	0.071	0.43
M399227		120	2.6	15.8	0.002	0.50	0.22	2.1	1	0.2	1780	0.07	<0.05	1.2	0.041	0.18
M399228		130	2.6	16.3	0.002	0.51	0.24	2.2	1	0.3	1815	0.08	<0.05	1.3	0.043	0.19
M399229		210	4.0	22.9	0.002	0.72	0.29	2.7	1	0.3	1860	0.10	<0.05	2.0	0.062	0.63
M399230		110	2.7	16.2	0.002	0.49	0.21	2.1	1	0.3	2550	0.08	<0.05	1.4	0.042	0.72
M399231		80	2.0	11.3	<0.002	0.40	0.17	1.5	1	0.2	1840	0.05	<0.05	1.0	0.030	0.43
M399232		170	1.6	7.8	<0.002	0.27	0.13	1.2	1	0.2	1710	<0.05	<0.05	0.8	0.021	0.32
M399233		120	1.4	7.3	<0.002	0.25	0.10	1.2	1	<0.2	1710	<0.05	<0.05	0.7	0.019	0.22
M399234		360	4.1	24.4	0.004	0.78	0.27	3.0	1	0.4	2340	0.11	0.05	2.0	0.058	0.88
M399235		610	2.2	12.6	0.002	0.37	0.16	2.0	1	0.2	2490	0.06	0.05	1.2	0.034	0.52
M399236		640	1.3	5.4	<0.002	0.20	0.09	1.3	1	<0.2	2630	<0.05	<0.05	0.5	0.016	0.21
M399237		270	16.9	15.3	0.002	0.83	52.8	4.9	2	2.4	214	0.41	0.11	3.6	0.305	11.90
M399238		850	2.7	14.8	0.003	0.49	0.24	2.4	1	0.3	2440	0.07	<0.05	1.3	0.041	0.74
M399239		180	2.3	13.2	0.002	0.43	0.18	1.8	1	0.2	2020	0.05	<0.05	1.2	0.035	0.47



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**CERTIFICATE OF ANALYSIS WH12233303**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M399204		1.6	17	0.5	12.9	12	16.1
M399205		1.6	13	0.4	10.4	9	14.2
M399206		2.1	16	0.4	13.7	13	15.0
M399207		1.7	19	0.9	10.7	13	18.3
M399208		0.6	3	0.1	0.8	14	<0.5
M399209		3.2	20	0.5	18.7	17	19.5
M399210		1.8	16	0.7	11.5	17	16.4
M399211		1.8	12	0.5	11.0	10	12.5
M399212		2.2	13	0.3	12.9	8	11.8
M399213		1.2	10	0.3	7.5	3	8.3
M399214		1.9	14	0.3	12.7	27	13.8
M399215		1.9	17	0.2	13.5	16	17.5
M399216		5.1	92	67.1	15.0	66	50.1
M399217		1.9	12	0.3	11.6	10	11.0
M399218		1.5	10	0.3	7.4	6	11.4
M399219		1.5	5	0.2	7.4	3	5.0
M399220		1.6	8	0.3	7.6	6	8.4
M399221		1.5	11	0.4	8.5	4	9.7
M399222		2.0	15	0.5	11.7	9	12.8
M399223		1.9	15	0.4	13.5	11	14.6
M399224		0.4	2	0.1	0.7	13	<0.5
M399225		1.8	11	0.1	9.7	8	11.1
M399226		2.4	21	0.2	14.8	17	20.1
M399227		1.4	14	0.2	9.3	10	11.9
M399228		1.3	14	0.2	9.4	11	12.2
M399229		2.4	18	0.2	14.0	13	18.8
M399230		2.2	13	0.2	10.9	12	12.7
M399231		1.0	10	0.2	7.5	7	9.1
M399232		1.1	8	0.2	6.8	5	7.7
M399233		1.1	8	0.2	7.3	4	7.0
M399234		3.1	20	0.6	17.8	16	17.4
M399235		1.9	12	0.3	10.8	8	12.0
M399236		1.3	6	0.1	8.4	3	7.3
M399237		5.3	50	31.7	9.2	28	116.0
M399238		2.5	14	0.4	14.3	14	14.7
M399239		1.7	11	0.4	10.0	10	11.0



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**CERTIFICATE OF ANALYSIS WH12233303**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12233304**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 389  
 This report is for 34 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH1223304**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M396999		7.47	<0.01	0.03	0.75	20	130	0.21	0.04	33.6	0.04	12.90	2.4	2	3.24	7.7
M397000		7.89	<0.01	0.02	0.64	<5	120	0.20	0.03	32.6	0.04	11.10	2.1	2	3.41	6.9
M400201		7.07	<0.01	0.07	2.01	27	190	0.45	0.10	28.0	0.18	31.5	6.7	21	9.01	22.7
M400202		7.47	<0.01	0.06	1.57	13	150	0.35	0.07	28.9	0.18	24.0	5.1	14	5.84	18.7
M400203		4.97	<0.01	0.02	0.04	<5	20	0.05	0.02	20.7	0.05	1.18	1.4	<1	0.11	1.5
M400204		7.42	<0.01	0.12	4.56	22	270	1.01	0.20	14.80	0.51	58.4	15.0	52	19.40	54.2
M400205		6.62	<0.01	0.15	6.07	126.5	290	1.40	0.28	9.07	0.45	73.7	20.3	63	16.45	76.2
M400206		6.51	<0.01	0.15	6.30	235	240	1.20	0.30	4.88	0.47	74.4	18.0	63	13.35	70.9
M400207		0.26	0.39	0.71	1.88	447	450	0.31	0.23	1.07	0.38	38.3	4.1	77	2.10	40.8
M400208		6.16	<0.01	0.06	5.28	200	210	1.03	0.24	9.33	0.30	55.9	20.2	51	10.25	85.0
M400209		6.66	0.01	0.07	5.01	104.0	200	1.01	0.23	9.68	0.23	57.9	19.3	49	11.40	76.6
M400210		6.97	<0.01	0.08	3.88	148.5	170	0.75	0.17	8.82	0.21	46.1	10.7	30	8.62	34.2
M400211		6.67	0.01	0.10	4.62	86.4	170	0.88	0.24	7.15	0.39	54.2	17.0	45	9.09	58.1
M400212		5.17	<0.01	0.08	6.43	270	290	1.27	0.33	4.25	0.57	71.6	24.2	65	13.60	79.1
M400213		<0.02	<0.01	0.06	6.59	249	300	1.31	0.33	4.06	0.71	74.5	25.2	65	14.45	82.9
M400214		4.58	<0.01	<0.01	7.49	182.0	200	1.08	0.29	2.84	0.38	66.5	31.2	70	10.80	139.5
M400215		5.84	<0.01	0.04	5.36	104.5	390	1.06	0.23	4.74	0.21	52.3	20.6	48	10.60	78.3
M400216		6.73	<0.01	0.06	6.42	38.5	390	1.45	0.24	3.74	0.18	57.8	25.0	66	18.05	115.5
M400217		7.50	0.01	0.01	6.41	21.3	270	1.44	0.25	4.05	0.11	67.5	24.0	56	19.05	79.9
M400218		6.86	0.01	0.02	6.60	22.9	490	1.39	0.22	3.29	0.10	57.2	28.7	69	19.50	131.0
M400219		7.67	0.01	0.03	6.68	13.6	260	1.59	0.23	2.73	0.12	52.4	30.6	70	23.3	155.0
M400220		4.78	<0.01	0.01	0.06	<5	30	<0.05	0.06	19.00	0.06	1.35	1.4	<1	0.16	2.2
M400221		8.07	0.01	0.07	6.28	30.9	360	1.51	0.24	3.37	0.14	58.7	25.6	65	19.00	107.0
M400222		7.08	0.01	0.06	5.68	27.5	410	1.40	0.32	4.90	0.11	60.6	19.0	51	13.00	44.4
M400223		7.54	<0.01	0.04	5.06	16.4	280	1.36	0.27	4.37	0.11	56.1	19.0	45	12.10	77.8
M400224		7.45	<0.01	0.02	5.30	51.4	490	1.24	0.22	4.21	0.09	56.5	16.2	49	13.80	64.3
M400225		0.26	0.27	0.82	1.90	461	310	0.37	0.27	1.10	0.42	35.5	4.3	79	2.05	41.6
M400226		7.60	<0.01	0.02	6.83	15.4	1000	1.78	0.26	2.76	0.08	55.0	23.5	71	16.75	97.9
M400227		3.44	<0.01	<0.01	6.79	14.6	1130	1.96	0.27	2.87	0.08	57.4	22.6	68	16.75	87.1
M400228		7.42	<0.01	0.04	6.51	23.0	270	1.82	0.29	4.02	0.15	59.2	25.2	60	16.20	86.6
M399426		6.61	<0.01	0.02	0.37	6	100	0.13	0.02	35.9	0.03	6.05	1.5	<1	0.92	4.1
M399427		6.91	<0.01	0.03	0.71	14	180	0.18	0.04	34.1	0.04	12.00	2.3	1	1.63	6.9
M399428		6.29	<0.01	0.02	0.70	28	150	0.18	0.03	34.8	0.04	10.70	2.2	1	1.72	7.0
M399429		6.85	<0.01	0.02	0.83	30	120	0.20	0.04	34.1	0.06	11.70	2.5	2	1.47	7.9



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH1223304**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M396999		0.54	1.79	0.06	0.4	0.04	0.009	0.33	5.8	4.0	0.61	176	0.47	<0.01	1.2	0.9
M397000		0.48	1.55	0.07	0.3	<0.1	0.008	0.28	5.1	3.5	0.61	229	0.58	<0.01	1.1	0.6
M400201		1.40	4.84	0.07	1.0	0.08	0.024	0.87	13.7	10.6	0.93	281	1.29	<0.01	3.0	10.5
M400202		1.25	3.82	0.05	0.8	0.1	0.019	0.64	10.8	7.1	0.84	506	1.28	<0.01	2.4	7.8
M400203		0.46	0.27	0.39	<0.1	<0.1	<0.005	0.02	0.6	0.8	13.25	204	0.07	<0.01	0.3	0.6
M400204		3.89	11.25	0.11	2.1	0.2	0.050	1.89	27.0	14.2	1.23	386	3.91	0.05	6.3	28.7
M400205		4.04	15.15	0.14	2.7	2.39	0.066	2.55	35.8	17.8	1.39	406	5.92	0.03	8.3	40.8
M400206		4.04	15.35	0.16	2.7	3.6	0.062	2.55	35.3	24.8	2.45	703	4.46	0.02	8.4	39.3
M400207		3.75	5.44	0.06	3.3	3.8	0.031	0.42	20.3	22.8	0.06	77	14.80	0.09	7.5	18.1
M400208		3.54	13.95	0.10	2.6	2.7	0.057	2.18	27.6	14.5	5.42	632	8.16	0.02	8.1	36.0
M400209		3.35	12.85	0.10	2.5	1.3	0.054	1.90	27.7	17.5	5.54	754	3.72	0.02	8.2	33.9
M400210		4.89	10.15	0.11	1.8	0.73	0.051	1.60	21.5	17.0	5.01	834	1.35	0.01	6.2	20.8
M400211		5.92	11.60	0.13	2.3	0.61	0.068	1.47	25.0	36.7	4.06	661	0.98	0.01	7.9	43.5
M400212		5.69	17.20	0.19	2.9	2.30	0.096	2.24	33.4	43.7	2.43	540	1.63	0.01	11.5	47.3
M400213		5.69	17.75	0.19	3.0	2.25	0.098	2.31	34.7	46.1	2.37	515	1.73	0.01	12.1	48.9
M400214		6.58	20.6	0.18	2.8	1.76	0.113	1.67	30.6	63.2	1.58	716	0.59	<0.01	15.1	52.5
M400215		4.80	14.40	0.15	2.7	0.80	0.073	1.83	24.1	124.0	3.00	654	0.47	0.01	9.0	36.8
M400216		5.50	17.95	0.19	2.9	0.27	0.089	2.30	26.9	122.0	3.05	661	0.45	0.02	10.6	47.4
M400217		4.72	17.95	0.19	3.0	0.26	0.083	2.50	31.1	75.7	3.01	726	0.62	0.02	11.5	42.8
M400218		5.98	18.20	0.17	2.9	0.23	0.087	2.28	26.2	95.7	2.73	609	0.41	0.03	12.3	45.0
M400219		6.27	19.60	0.20	2.9	0.22	0.100	2.24	23.6	105.0	2.68	525	0.34	0.02	12.1	52.8
M400220		0.43	0.32	0.34	<0.1	<0.1	0.005	0.02	0.6	1.1	12.05	194	0.11	<0.01	0.3	0.2
M400221		5.61	18.40	0.20	3.0	0.26	0.083	2.18	26.5	101.0	2.79	536	0.48	0.03	10.8	50.4
M400222		4.30	15.40	0.15	3.0	0.24	0.080	2.33	28.2	78.9	3.15	690	0.55	0.02	10.9	40.5
M400223		4.07	14.60	0.17	2.8	0.25	0.072	2.01	25.9	85.2	2.95	512	0.53	0.01	10.0	37.4
M400224		4.99	14.80	0.17	2.9	0.17	0.059	1.62	26.7	95.0	2.77	532	0.49	0.21	10.8	31.8
M400225		3.82	6.06	0.05	3.5	3.6	0.035	0.43	18.8	25.4	0.06	81	16.30	0.09	8.3	18.5
M400226		5.97	18.50	0.15	3.3	0.19	0.087	2.30	26.0	154.0	2.42	371	0.44	0.12	13.7	41.7
M400227		5.71	18.95	0.17	3.4	0.17	0.084	2.21	26.8	160.5	2.40	373	0.37	0.12	14.3	40.1
M400228		4.99	18.45	0.18	3.2	0.3	0.090	2.72	27.3	157.5	3.01	471	0.66	0.02	12.5	48.0
M399426		0.31	1.06	0.07	0.2	<0.1	0.005	0.15	2.8	1.9	0.47	90	0.19	<0.01	0.9	<0.2
M399427		0.47	1.87	0.08	0.4	0.1	0.010	0.29	5.6	3.1	0.56	78	0.41	<0.01	1.3	1.0
M399428		0.50	1.81	0.07	0.4	0.1	0.010	0.30	4.9	3.3	0.42	72	0.27	<0.01	1.3	<0.2
M399429		0.60	2.09	0.08	0.5	0.2	0.011	0.36	5.5	3.2	0.55	90	0.29	<0.01	1.5	1.2



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233304**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M396999		830	2.7	17.0	0.002	0.52	0.12	1.9	1	0.3	1760	0.07	<0.05	1.3	0.045	0.08
M397000		890	2.5	14.5	0.002	0.43	0.12	1.6	1	0.3	1755	0.07	<0.05	1.1	0.041	0.07
M400201		1340	6.7	47.3	0.007	1.25	0.33	5.0	2	0.7	1705	0.21	<0.05	3.2	0.143	0.20
M400202		910	5.3	35.7	0.006	0.97	0.28	3.9	2	0.6	1615	0.17	<0.05	2.5	0.104	0.19
M400203		210	1.2	0.8	<0.002	0.01	0.07	0.1	1	<0.2	44.1	<0.05	<0.05	<0.2	<0.005	<0.02
M400204		1250	14.5	110.5	0.012	3.23	0.66	11.3	3	1.6	896	0.48	0.05	7.3	0.327	1.29
M400205		1170	18.4	146.0	0.019	3.65	1.24	15.0	4	2.1	425	0.64	0.07	9.5	0.360	2.87
M400206		1320	19.5	143.5	0.015	3.45	1.11	15.5	4	2.2	171.0	0.64	0.06	10.0	0.361	3.05
M400207		270	17.0	18.5	0.002	0.84	58.5	4.7	2	2.5	225	0.50	0.12	4.5	0.312	11.00
M400208		410	15.6	120.5	0.015	3.05	2.75	11.8	3	1.9	240	0.59	0.08	8.2	0.322	2.45
M400209		380	14.2	106.5	0.008	2.86	0.84	12.0	2	1.8	262	0.61	0.07	7.8	0.318	1.97
M400210		310	19.7	82.4	0.005	4.24	0.96	8.7	2	1.6	203	0.43	<0.05	6.2	0.244	1.31
M400211		330	21.9	85.6	0.005	3.13	0.71	12.9	3	1.8	218	0.57	0.16	7.3	0.360	1.37
M400212		470	17.3	124.0	0.008	5.10	0.90	18.3	4	2.5	232	0.82	0.48	9.3	0.500	4.01
M400213		490	16.5	131.5	0.009	5.12	0.89	19.4	4	2.5	234	0.87	0.48	9.4	0.515	3.88
M400214		540	12.6	96.7	0.004	6.57	0.65	22.5	3	2.7	370	1.04	0.30	7.1	0.702	3.56
M400215		450	11.7	111.0	0.003	1.94	0.58	15.9	2	1.9	228	0.67	0.11	7.3	0.445	1.29
M400216		520	11.0	145.5	0.003	0.64	0.47	21.7	3	2.3	148.5	0.76	0.14	7.5	0.580	0.77
M400217		460	14.3	151.5	0.004	0.56	0.58	18.6	2	2.5	133.0	0.81	0.13	8.6	0.511	0.68
M400218		540	10.0	141.0	0.002	0.42	0.40	23.7	3	2.3	129.5	0.87	0.17	6.4	0.689	0.66
M400219		610	9.4	133.0	0.002	0.31	0.34	25.7	3	2.3	115.0	0.84	0.19	6.2	0.689	0.67
M400220		170	1.3	1.3	<0.002	0.01	<0.05	0.1	1	0.2	46.4	<0.05	<0.05	<0.2	<0.005	<0.02
M400221		530	13.3	134.0	0.003	0.46	0.50	21.3	3	2.2	119.0	0.78	0.14	7.9	0.572	0.67
M400222		440	18.1	140.0	0.004	0.77	0.76	14.9	2	2.4	157.0	0.80	0.15	9.0	0.430	0.77
M400223		450	13.7	124.5	0.003	0.50	0.58	14.5	2	2.1	131.0	0.73	0.12	8.1	0.400	0.61
M400224		440	10.5	97.1	0.002	0.39	0.50	13.8	2	2.0	135.0	0.77	0.10	8.3	0.461	0.51
M400225		280	17.4	17.2	0.002	0.84	60.4	5.3	3	2.6	227	0.49	0.12	4.5	0.320	12.35
M400226		560	11.1	122.5	0.002	0.43	0.50	19.7	3	2.2	140.0	0.97	0.16	8.3	0.608	0.72
M400227		560	9.4	120.5	0.002	0.30	0.46	19.8	3	2.2	150.0	0.99	0.16	8.6	0.601	0.69
M400228		520	14.1	138.0	0.005	0.62	0.70	18.9	3	2.3	133.0	0.88	0.14	8.6	0.520	0.81
M399426		340	1.9	7.0	<0.002	0.29	0.15	0.9	1	0.2	1575	<0.05	<0.05	0.7	0.023	0.10
M399427		1000	2.7	13.2	<0.002	0.46	0.25	1.8	1	0.3	2450	0.07	<0.05	1.2	0.036	0.20
M399428		590	2.8	13.9	<0.002	0.51	0.27	1.8	1	0.3	2400	0.08	<0.05	1.2	0.041	0.20
M399429		520	3.1	15.7	<0.002	0.63	0.28	1.9	1	0.3	1775	0.09	<0.05	1.3	0.048	0.22





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**CERTIFICATE OF ANALYSIS WH12233304**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M396999		2.4	13	0.2	9.4	11	12.8
M397000		2.4	12	0.2	8.7	8	12.0
M400201		3.6	45	0.6	21.2	32	33.8
M400202		2.7	36	0.4	15.0	26	27.2
M400203		0.6	2	0.1	0.8	13	<0.5
M400204		4.6	106	1.2	26.5	78	75.0
M400205		5.0	137	2.3	30.8	88	100.0
M400206		5.9	130	3.6	32.2	92	97.2
M400207		6.2	51	32.2	10.3	28	115.5
M400208		2.7	126	2.6	18.4	66	93.2
M400209		2.8	110	1.2	22.5	63	88.0
M400210		1.9	65	1.1	17.1	58	64.4
M400211		1.8	102	1.3	20.8	70	82.6
M400212		2.1	147	1.8	23.9	94	104.5
M400213		2.1	151	1.9	24.0	118	107.5
M400214		1.7	207	2.2	24.1	96	106.0
M400215		1.7	128	1.2	22.4	77	94.8
M400216		1.6	178	1.0	24.7	95	106.0
M400217		2.0	148	1.0	24.7	61	108.5
M400218		1.5	205	1.1	25.4	76	110.0
M400219		1.4	218	0.9	25.0	93	111.5
M400220		0.6	3	0.1	0.9	15	0.5
M400221		1.9	167	1.1	25.8	91	110.0
M400222		2.3	116	1.3	22.7	62	105.5
M400223		2.0	108	1.1	22.3	65	99.5
M400224		2.3	114	1.3	22.8	79	104.5
M400225		5.9	52	34.4	10.2	29	126.5
M400226		2.0	163	1.7	23.2	87	123.5
M400227		2.1	160	1.8	24.3	86	130.0
M400228		1.9	144	1.6	23.0	84	119.5
M399426		1.3	7	0.2	5.2	3	7.8
M399427		2.7	12	0.4	9.6	6	13.6
M399428		1.8	11	0.4	7.6	7	14.2
M399429		1.6	13	0.6	7.8	9	15.4



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**CERTIFICATE OF ANALYSIS WH12233304**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12252011**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 389  
 This report is for 34 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25- OCT- 2012.  
 The following have access to data associated with this certificate:  
 JOAN CARNE                      JULIA LANE                      JOAN MARIACHER

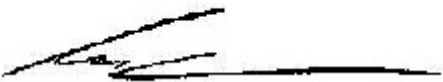
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.  
 ATTN: JULIA LANE  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12233304 \*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Total # Pages: 2 (A)  
 Finalized Date: 29- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12252011**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
M396999		<0.01
M397000		<0.01
M400201		<0.01
M400202		<0.01
M400203		<0.01
M400204		<0.01
M400205		<0.01
M400206		<0.01
M400207		0.25
M400208		<0.01
M400209		<0.01
M400210		<0.01
M400211		<0.01
M400212		<0.01
M400213		<0.01
M400214		<0.01
M400215		<0.01
M400216		<0.01
M400217		<0.01
M400218		<0.01
M400219		<0.01
M400220		<0.01
M400221		<0.01
M400222		<0.01
M400223		<0.01
M400224		<0.01
M400225		0.27
M400226		<0.01
M400227		<0.01
M400228		<0.01
M399426		<0.01
M399427		<0.01
M399428		<0.01
M399429		<0.01

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12233304 \*\*



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Page: 1  
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**CERTIFICATE WH12233305**

Project: Rackla Gold - Area B  
 P.O. No.: 12- 390  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
CRU- QC	Crushing QC Test
SPL- 22Y	Split Sample - Boyd Rotary Splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 19- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233305**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M400073		3.06	<0.01	0.21	0.25	33	2070	0.11	0.01	19.85	7.15	8.11	1.3	<1	0.18	5.8
M400074		5.13	<0.01	0.41	0.32	22	1450	0.24	0.01	20.1	0.34	6.68	1.4	1	0.25	3.6
M400075		9.70	<0.01	0.30	0.35	35	3040	0.15	0.02	20.0	0.25	8.36	1.7	1	0.24	5.1
M400076		8.48	0.02	0.36	0.13	20	4250	0.18	<0.01	20.7	0.21	2.96	1.2	<1	0.11	1.8
M400077		0.19	15.70	1.19	1.94	1130	260	0.43	0.69	14.85	0.73	31.9	3.6	34	2.43	56.6
M400078		10.90	<0.01	0.18	1.32	30	190	0.31	0.02	17.75	0.64	12.70	6.2	6	1.30	6.6
M400079		10.40	<0.01	0.16	2.21	17	410	0.48	0.11	15.25	1.45	28.9	7.3	17	2.77	18.9
M400080		4.93	<0.01	0.03	0.04	<5	120	0.05	0.07	21.0	0.07	1.23	1.4	<1	0.12	4.8
M400081		9.98	<0.01	0.18	1.15	11	100	0.39	0.05	19.20	0.27	17.60	3.6	8	1.97	9.2
M400082		10.35	<0.01	0.42	0.70	<5	250	0.27	0.03	19.15	2.55	14.00	2.9	3	1.03	6.7
M400083		11.48	<0.01	0.51	3.18	23	250	0.86	0.14	14.05	0.57	40.3	11.0	26	5.78	27.9
M400084		9.40	<0.01	0.26	3.36	44	460	0.80	0.19	13.90	0.23	43.4	9.8	29	5.13	22.0
M400085		4.93	<0.01	0.26	3.02	32	750	0.69	0.17	14.50	0.30	41.2	8.5	26	4.71	19.2
M400086		9.02	<0.01	2.82	3.87	45	270	0.83	0.19	13.25	1.00	44.8	11.0	30	4.82	30.0
M400087		10.19	0.01	0.95	0.53	12	370	0.21	0.04	19.80	3.93	12.05	2.7	3	0.61	6.0
M400088		3.73	<0.01	0.39	1.29	16	1190	0.37	0.06	18.15	0.14	25.2	5.4	8	1.38	11.9
M400089		7.56	0.01	0.27	7.79	81.4	3160	1.70	0.37	3.11	0.67	76.0	21.4	62	10.55	58.9
M400090		11.49	<0.01	0.71	6.53	90.9	1620	1.49	0.30	5.59	0.09	62.6	13.9	53	8.62	36.9
M400091		9.75	0.01	0.09	7.04	120.0	650	2.26	0.34	5.53	0.03	79.4	9.8	50	15.45	30.6
M400092		4.88	<0.01	0.01	0.06	<5	20	0.06	0.02	21.0	0.06	1.25	1.4	<1	0.14	1.1
M400093		10.53	<0.01	<0.01	7.26	63.8	300	2.59	0.37	1.66	<0.02	79.7	9.1	48	15.75	3.9
M400094		6.86	<0.01	0.27	3.13	57	970	0.78	0.15	10.35	0.28	28.9	11.5	25	5.26	14.8
M400095		11.85	<0.01	0.24	1.88	55	680	0.44	0.09	16.20	0.80	18.85	6.3	11	2.42	9.3
M400096		0.20	4.23	0.81	2.74	413	800	0.64	0.44	9.97	0.59	39.7	5.2	40	2.43	30.7
M400097		11.07	<0.01	0.75	0.09	55	1120	0.10	0.01	19.95	5.56	2.96	1.1	<1	0.06	3.2
M400098		10.28	<0.01	1.15	0.13	79	410	0.09	0.01	20.4	1.49	3.59	1.2	<1	0.10	2.5
M400099		<0.02	0.01	1.01	0.12	71	440	0.08	0.01	20.2	1.60	3.59	1.2	<1	0.10	2.4
M400100		11.97	<0.01	0.03	0.02	<5	50	0.05	<0.01	20.6	<0.02	0.91	1.2	<1	<0.05	0.6
M400251		10.18	<0.01	0.03	0.03	<5	10	<0.05	<0.01	20.9	0.18	0.94	0.6	<1	<0.05	2.6
M400252		11.91	<0.01	0.02	0.04	5	10	0.05	<0.01	20.8	0.07	1.39	0.8	<1	<0.05	1.2
M400253		11.64	0.02	0.07	0.06	5	10	0.05	0.01	20.1	0.45	1.60	0.8	<1	<0.05	1.2
M400254		10.68	<0.01	0.10	0.05	7	10	0.06	<0.01	20.2	0.34	1.96	0.9	<1	<0.05	1.2
M400255		10.84	<0.01	0.08	0.05	<5	1050	0.07	<0.01	20.7	0.51	1.96	0.9	<1	<0.05	1.1
M400256		12.03	<0.01	0.05	0.03	<5	1180	0.05	<0.01	21.5	0.13	1.64	1.0	<1	<0.05	1.1
M400257		11.43	<0.01	0.02	0.03	<5	10	0.05	<0.01	20.6	0.08	1.22	1.0	<1	<0.05	1.0
M400258		11.70	<0.01	0.09	0.12	6	10	0.12	0.01	20.1	0.25	3.28	1.2	<1	0.08	2.4



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233305**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M400073		1.91	1.88	<0.05	0.2	2.3	0.024	0.09	4.8	1.3	12.10	1430	0.45	<0.01	0.7	0.7
M400074		1.09	0.76	0.05	0.2	0.2	<0.005	0.11	4.6	1.5	12.60	949	0.64	<0.01	0.7	0.6
M400075		0.76	0.88	0.10	0.2	0.3	<0.005	0.11	5.8	1.7	12.60	855	0.40	0.01	1.0	1.5
M400076		0.73	0.42	0.18	0.1	0.2	<0.005	0.05	1.9	0.9	13.05	909	0.31	0.01	0.4	<0.2
M400077		3.52	3.82	0.07	0.9	5.6	0.061	0.38	18.2	40.8	0.75	473	12.70	<0.01	3.6	18.8
M400078		2.03	3.08	<0.05	1.0	0.43	0.010	0.55	6.5	3.8	11.00	941	0.70	<0.01	9.5	7.8
M400079		1.37	5.64	0.07	1.0	0.5	0.021	0.92	14.7	9.7	9.46	926	0.93	<0.01	4.0	12.4
M400080		0.45	0.32	0.38	<0.1	<0.1	0.005	0.02	0.6	0.9	13.45	206	0.19	<0.01	0.3	0.9
M400081		1.01	3.12	0.10	0.5	0.2	0.011	0.51	9.1	5.3	11.75	900	0.54	<0.01	2.1	5.5
M400082		0.82	1.91	0.10	0.3	0.4	0.013	0.30	7.5	3.9	12.00	962	0.62	<0.01	1.4	4.0
M400083		1.83	8.57	0.09	1.2	0.2	0.029	1.44	21.0	13.6	8.85	856	0.93	<0.01	5.8	20.9
M400084		2.37	9.18	0.08	1.4	0.2	0.035	1.45	22.8	13.5	8.54	1040	0.53	<0.01	5.9	18.5
M400085		2.23	8.22	0.08	1.3	0.2	0.033	1.32	21.1	12.7	8.90	1050	0.71	<0.01	5.4	16.2
M400086		1.83	10.55	0.08	1.7	0.4	0.023	1.65	23.3	11.0	8.36	725	1.90	<0.01	6.7	22.8
M400087		0.84	1.47	0.08	0.3	0.7	0.009	0.21	6.1	2.7	12.50	1060	0.58	<0.01	1.2	3.4
M400088		1.08	3.48	0.08	0.6	0.1	0.011	0.50	12.6	5.6	11.50	1200	0.82	0.01	2.6	7.7
M400089		3.80	21.8	0.17	3.0	0.67	0.053	3.24	36.3	31.5	2.31	218	1.30	0.02	13.8	44.3
M400090		2.90	17.60	0.13	2.3	0.6	0.040	2.90	28.1	23.9	3.57	407	0.57	0.01	10.9	40.0
M400091		3.27	18.70	0.16	2.6	0.39	0.057	3.30	39.6	30.6	3.63	551	0.25	0.01	12.1	26.5
M400092		0.46	0.33	0.36	<0.1	<0.1	0.005	0.02	0.6	0.9	13.45	214	0.11	<0.01	0.4	0.5
M400093		3.84	19.85	0.19	2.7	0.22	0.058	3.33	39.0	41.0	1.42	184	0.37	0.01	11.5	26.4
M400094		2.69	8.64	0.08	1.7	0.22	0.022	1.35	15.7	14.8	5.71	1010	0.58	0.01	5.2	14.9
M400095		2.26	4.91	0.05	1.2	0.7	0.012	0.70	10.3	9.5	9.58	1290	0.31	<0.01	3.4	6.0
M400096		1.77	6.51	0.08	1.5	4.7	0.027	0.82	23.1	53.0	5.06	350	9.89	<0.01	5.6	30.4
M400097		1.51	0.39	<0.05	<0.1	3.9	0.006	0.02	1.8	0.8	12.50	905	0.95	<0.01	0.3	<0.2
M400098		0.79	0.49	0.15	0.1	1.2	<0.005	0.04	2.1	0.8	12.95	567	0.50	<0.01	0.6	<0.2
M400099		0.74	0.50	0.18	0.1	1.29	<0.005	0.04	2.1	0.8	12.85	587	0.43	<0.01	0.6	<0.2
M400100		0.25	0.29	0.52	<0.1	<0.1	<0.005	<0.01	0.5	0.4	13.25	436	0.07	<0.01	0.2	<0.2
M400251		0.28	0.15	<0.05	<0.1	0.04	<0.005	0.01	0.5	0.3	12.85	372	0.10	0.01	0.2	<0.2
M400252		0.31	0.23	0.09	<0.1	0.02	<0.005	0.01	0.7	0.4	12.75	421	0.08	0.01	0.2	<0.2
M400253		0.37	0.30	0.11	0.1	0.10	<0.005	0.02	0.8	0.8	12.35	432	0.19	0.01	0.3	<0.2
M400254		0.48	0.33	0.12	0.1	0.10	<0.005	0.02	1.0	0.7	12.30	631	0.19	0.01	0.3	<0.2
M400255		0.37	0.36	0.17	<0.1	0.17	<0.005	0.01	1.0	0.8	12.60	591	0.08	0.01	0.3	<0.2
M400256		0.36	0.32	0.19	<0.1	0.05	0.005	0.01	0.9	0.6	13.20	606	0.13	0.01	0.3	<0.2
M400257		0.25	0.33	0.21	<0.1	0.03	<0.005	0.01	0.7	0.7	12.55	470	0.12	0.01	0.2	<0.2
M400258		0.52	0.53	0.17	0.1	0.12	<0.005	0.04	2.0	1.3	12.10	683	0.32	0.01	0.5	0.3



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233305**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M400073		510	38.4	2.8	<0.002	0.41	1.10	1.2	1	0.3	81.1	<0.05	<0.05	0.6	0.013	0.43
M400074		400	30.3	3.1	<0.002	0.41	1.59	0.8	1	<0.2	88.3	<0.05	<0.05	0.7	0.014	0.88
M400075		580	29.9	3.1	<0.002	0.48	1.05	1.4	1	0.2	107.0	0.06	<0.05	0.9	0.019	0.99
M400076		380	21.4	1.4	<0.002	0.39	0.79	1.0	1	<0.2	91.8	<0.05	<0.05	0.3	0.005	0.85
M400077		680	20.1	23.7	0.006	1.91	166.5	3.5	3	2.1	47.6	0.25	0.43	3.7	0.112	3.56
M400078		670	21.7	12.3	<0.002	1.73	0.64	2.6	1	0.4	94.0	0.61	<0.05	1.6	0.220	1.67
M400079		280	21.6	24.8	0.002	1.09	0.61	5.2	1	0.7	84.3	0.30	<0.05	4.7	0.118	0.89
M400080		180	1.3	0.8	<0.002	<0.01	<0.05	0.1	1	<0.2	48.2	<0.05	<0.05	<0.2	<0.005	<0.02
M400081		140	33.0	14.4	<0.002	0.81	0.82	3.0	1	0.4	75.8	0.15	<0.05	2.4	0.060	0.60
M400082		140	31.0	8.4	<0.002	0.56	0.77	1.7	1	0.3	68.7	0.09	<0.05	1.6	0.037	0.41
M400083		220	48.7	45.5	<0.002	1.44	1.56	5.8	1	1.0	76.0	0.42	<0.05	6.1	0.165	0.88
M400084		190	29.7	44.3	<0.002	1.62	1.10	6.0	1	1.1	76.9	0.44	<0.05	6.4	0.175	1.08
M400085		200	31.5	40.9	<0.002	1.47	1.12	5.6	1	1.0	77.4	0.39	<0.05	5.7	0.157	1.02
M400086		300	140.0	48.5	0.002	1.65	2.90	6.1	1	1.2	90.5	0.52	<0.05	7.6	0.205	1.33
M400087		160	241	5.9	<0.002	0.58	5.62	1.6	1	0.2	86.5	0.07	<0.05	1.3	0.030	0.52
M400088		200	45.6	15.0	<0.002	0.92	0.97	2.5	1	0.4	77.0	0.18	<0.05	3.0	0.073	0.51
M400089		450	84.3	103.0	0.002	3.97	2.29	9.1	2	2.7	123.0	1.01	0.06	12.9	0.421	1.47
M400090		410	77.7	96.0	<0.002	2.66	1.62	7.8	1	2.0	84.1	0.80	0.05	10.8	0.328	1.32
M400091		300	13.6	114.0	<0.002	2.35	0.84	13.6	1	2.2	90.4	0.91	0.06	12.6	0.360	1.42
M400092		190	1.2	1.0	<0.002	<0.01	<0.05	0.1	1	<0.2	44.8	<0.05	<0.05	<0.2	<0.005	<0.02
M400093		520	16.5	123.5	<0.002	3.38	0.70	13.8	1	2.3	90.1	0.85	0.07	13.5	0.328	1.32
M400094		1090	27.0	53.8	0.002	1.68	0.62	5.2	1	1.0	57.3	0.37	<0.05	6.2	0.146	0.72
M400095		640	27.5	23.0	<0.002	1.17	0.66	3.6	1	0.7	87.6	0.24	<0.05	4.0	0.095	0.73
M400096		540	9.0	46.6	0.009	1.40	91.2	4.5	3	2.6	59.3	0.38	0.16	6.2	0.149	2.39
M400097		240	63.5	0.7	<0.002	1.07	1.26	0.3	1	<0.2	50.4	<0.05	<0.05	<0.2	<0.005	0.66
M400098		220	130.5	1.2	<0.002	0.43	1.59	0.2	1	<0.2	51.1	<0.05	<0.05	0.4	0.009	0.38
M400099		250	103.0	1.1	<0.002	0.40	1.35	0.2	1	<0.2	51.5	<0.05	<0.05	0.4	0.009	0.34
M400100		120	2.1	0.1	<0.002	0.03	<0.05	<0.1	1	<0.2	48.0	<0.05	<0.05	<0.2	<0.005	<0.02
M400251		110	4.5	0.3	<0.002	0.05	0.08	0.1	1	<0.2	48.7	<0.05	<0.05	<0.2	<0.005	0.02
M400252		330	4.9	0.4	<0.002	0.04	0.09	0.1	1	<0.2	58.9	<0.05	<0.05	<0.2	<0.005	0.02
M400253		120	15.1	0.6	<0.002	0.12	0.17	0.2	1	<0.2	53.5	<0.05	<0.05	<0.2	<0.005	0.08
M400254		210	16.3	0.6	<0.002	0.11	0.26	0.2	1	<0.2	61.5	<0.05	<0.05	<0.2	<0.005	0.12
M400255		130	12.3	0.5	<0.002	0.09	0.22	0.2	1	<0.2	62.4	<0.05	<0.05	<0.2	<0.005	0.05
M400256		230	6.8	0.3	<0.002	0.08	0.13	0.2	1	<0.2	52.5	<0.05	<0.05	<0.2	<0.005	0.03
M400257		130	2.5	0.2	<0.002	0.03	0.06	0.1	1	<0.2	55.7	<0.05	<0.05	<0.2	<0.005	0.02
M400258		200	15.3	1.4	<0.002	0.14	0.27	0.3	1	<0.2	70.1	<0.05	<0.05	0.3	0.007	0.13





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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233305**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M400073		2.6	4	0.7	6.4	2770	5.8
M400074		2.9	4	0.4	6.0	98	7.4
M400075		3.2	5	0.4	7.0	66	9.8
M400076		1.6	3	0.2	4.4	38	3.9
M400077		3.3	110	221	15.2	79	31.4
M400078		3.1	27	0.6	8.4	116	44.0
M400079		4.6	43	1.0	10.7	264	36.3
M400080		0.5	2	0.1	0.7	15	<0.5
M400081		4.0	20	0.6	8.3	65	18.2
M400082		3.4	12	0.6	6.1	420	11.7
M400083		4.2	68	1.4	10.8	93	46.1
M400084		3.7	50	1.5	12.1	86	48.5
M400085		3.5	46	1.3	11.8	99	44.8
M400086		8.8	56	8.2	10.8	150	58.0
M400087		3.8	10	0.6	4.8	564	10.3
M400088		5.3	18	1.1	6.9	21	22.2
M400089		8.9	100	3.0	13.9	122	110.0
M400090		2.6	88	5.5	12.8	36	83.7
M400091		1.8	94	3.6	17.2	28	91.4
M400092		0.6	2	0.1	0.7	14	<0.5
M400093		1.6	60	2.4	18.2	18	94.5
M400094		5.1	33	1.8	11.7	155	63.6
M400095		3.1	18	1.3	8.8	171	41.0
M400096		5.4	92	68.8	14.5	70	52.8
M400097		0.5	1	0.3	2.5	1100	2.0
M400098		0.9	2	0.6	2.2	286	4.6
M400099		0.9	2	0.5	2.3	298	4.5
M400100		0.4	1	<0.1	0.9	7	0.5
M400251		0.6	<1	0.1	1.4	33	0.8
M400252		0.8	1	0.1	1.9	15	1.3
M400253		0.6	<1	0.1	1.5	67	2.0
M400254		0.8	2	0.1	1.9	58	1.8
M400255		0.7	1	0.1	1.9	79	1.4
M400256		0.8	1	0.1	1.8	25	0.9
M400257		0.6	1	0.1	1.2	16	0.7
M400258		1.2	2	0.2	2.0	47	3.3



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233305**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12233306**

Project: Rackla Gold - Area B  
 P.O. No.: 12-391  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
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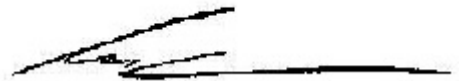
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233306**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M399240		9.13	<0.01	0.01	0.89	15	190	0.28	0.04	33.5	0.16	16.50	3.5	4	3.62	12.1
M399241		4.71	<0.01	0.01	1.37	28	180	0.39	0.06	29.4	0.20	17.60	5.0	8	5.57	15.1
M399242		7.35	<0.01	0.01	0.76	19	180	0.26	0.03	32.4	0.13	13.25	3.2	3	3.04	8.7
M399243		6.93	0.01	<0.01	0.84	25	160	0.19	0.04	32.8	0.14	12.40	3.7	4	1.90	11.2
M399244		4.94	<0.01	<0.01	0.05	<5	30	<0.05	0.02	20.1	0.05	1.02	1.4	<1	0.17	1.9
M399245		6.98	<0.01	0.01	0.57	19	200	0.19	0.03	33.8	0.13	12.05	2.8	1	1.29	7.8
M399246		6.84	<0.01	<0.01	0.44	14	120	0.15	0.02	34.7	0.08	8.15	2.5	<1	0.79	6.9
M399247		7.31	<0.01	<0.01	0.29	<5	180	0.14	0.02	35.4	0.06	6.14	1.8	<1	0.63	4.1
M399248		7.01	<0.01	<0.01	0.29	8	110	0.13	0.01	35.7	0.04	5.91	1.9	<1	0.56	4.4
M399249		3.69	<0.01	<0.01	0.29	7	120	0.10	0.01	35.6	0.05	5.77	1.9	<1	0.52	4.4
M399250		7.10	<0.01	0.01	0.44	5	110	0.13	0.02	34.3	0.08	8.39	2.4	<1	1.03	6.5
M399401		7.01	<0.01	<0.01	0.22	<5	80	0.08	0.01	36.6	0.07	5.16	1.7	<1	0.39	3.7
M399402		6.80	0.01	0.02	0.92	29	160	0.24	0.04	33.0	0.17	17.90	4.0	4	2.26	11.4
M399403		7.00	<0.01	<0.01	0.18	<5	100	0.12	0.01	36.4	0.04	3.43	1.5	<1	0.23	2.9
M399404		6.94	<0.01	0.01	0.54	22	130	0.14	0.02	34.9	0.10	10.50	2.8	<1	0.93	7.8
M399405		7.15	<0.01	<0.01	0.28	17	120	0.14	0.02	36.1	0.05	6.26	1.9	<1	0.44	4.6
M399406		7.09	<0.01	0.03	1.12	54	190	0.23	0.06	32.9	0.27	24.2	5.1	6	2.44	16.6
M399407		6.62	<0.01	<0.01	0.38	10	140	0.13	0.02	34.8	0.09	9.77	2.2	<1	1.00	5.6
M399408		6.86	<0.01	<0.01	0.21	<5	100	0.07	0.01	36.0	0.06	4.03	1.7	<1	0.35	3.3
M399409		0.26	0.27	0.75	1.94	483	800	0.34	0.22	1.09	0.36	35.4	4.2	78	2.30	45.4
M399410		6.92	<0.01	<0.01	0.27	7	130	0.15	0.01	35.1	0.04	5.59	1.8	<1	0.76	4.1
M399411		7.56	<0.01	<0.01	0.52	20	120	0.18	0.03	34.8	0.07	9.90	2.6	<1	1.76	7.0
M399412		7.00	<0.01	<0.01	0.63	11	140	0.22	0.03	33.6	0.08	11.75	2.8	1	2.86	8.4
M399413		6.72	<0.01	0.01	0.71	26	170	0.15	0.04	34.5	0.09	14.05	3.5	1	1.91	9.9
M399414		6.72	<0.01	0.01	0.64	16	160	0.19	0.03	35.6	0.04	11.50	3.1	<1	1.57	8.4
M399415		7.25	<0.01	<0.01	0.45	20	110	0.16	0.02	33.9	0.03	9.63	2.5	<1	0.95	6.5
M399416		4.86	<0.01	<0.01	0.04	<5	20	0.05	0.02	20.1	0.05	1.08	1.4	<1	0.13	2.1
M399417		6.85	<0.01	0.01	0.63	15	140	0.18	0.03	34.5	0.05	11.75	3.1	1	1.45	8.8
M399418		<0.02	<0.01	0.01	0.49	12	100	0.11	0.02	34.8	0.04	11.20	2.7	<1	1.30	7.2
M399419		7.10	<0.01	0.01	0.60	19	130	0.23	0.03	33.9	0.04	11.20	3.0	1	1.40	8.8
M399420		6.94	<0.01	<0.01	0.39	9	130	0.19	0.02	36.1	0.04	8.20	2.2	<1	0.66	6.0
M399421		0.26	0.29	0.74	1.88	450	840	0.40	0.21	1.04	0.35	39.7	3.9	75	2.26	44.1
M399422		7.21	<0.01	0.01	0.74	24	150	0.25	0.03	34.6	0.05	9.72	3.4	2	1.32	10.1
M399423		6.63	<0.01	0.04	5.47	11	400	0.61	0.06	12.70	0.10	21.9	10.4	29	1.02	20.4
M399424		6.88	<0.01	0.01	1.02	26	160	0.23	0.05	31.5	0.09	15.30	4.9	5	3.31	15.6
M399425		6.66	<0.01	0.03	0.62	18	120	0.19	0.05	33.9	0.04	9.87	2.3	1	1.48	7.8

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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233306**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
LOR																
M399240		0.62	2.67	<0.05	0.5	0.20	0.012	0.44	7.6	4.7	0.74	113	0.53	0.02	1.7	3.4
M399241		0.85	4.00	<0.05	0.7	0.42	0.016	0.67	8.7	7.4	0.67	115	0.55	0.01	2.5	6.9
M399242		0.53	2.18	<0.05	0.5	0.11	0.010	0.35	6.1	4.0	0.61	107	0.39	0.01	1.6	3.4
M399243		0.66	2.57	<0.05	0.5	0.34	0.010	0.42	6.2	3.5	0.52	166	0.50	0.01	1.8	<0.2
M399244		0.45	0.42	0.07	<0.1	<0.01	<0.005	0.02	0.5	1.0	12.50	206	0.24	<0.01	0.3	<0.2
M399245		0.42	1.74	<0.05	0.3	0.06	0.007	0.25	5.7	2.5	0.56	98	0.35	0.01	1.2	<0.2
M399246		0.33	1.32	<0.05	0.3	0.06	0.005	0.20	4.0	1.8	0.48	101	0.26	0.01	1.0	<0.2
M399247		0.19	0.86	<0.05	0.1	0.03	<0.005	0.12	2.9	1.4	0.38	55	0.19	0.01	0.7	<0.2
M399248		0.22	0.93	<0.05	0.2	0.07	<0.005	0.12	2.8	1.4	0.83	241	0.18	0.01	0.7	<0.2
M399249		0.21	0.98	<0.05	0.2	0.06	<0.005	0.12	2.8	1.4	0.65	233	0.17	0.01	0.7	<0.2
M399250		0.30	1.35	<0.05	0.2	0.2	0.005	0.21	4.1	2.0	0.82	128	0.25	0.01	0.9	<0.2
M399401		0.18	0.78	<0.05	0.1	0.1	<0.005	0.09	2.3	1.1	0.75	104	0.20	0.01	0.7	<0.2
M399402		0.58	2.68	<0.05	0.5	0.60	0.011	0.45	8.7	3.4	0.99	177	0.50	0.01	1.8	1.3
M399403		0.13	0.60	<0.05	0.1	0.07	<0.005	0.06	1.6	0.8	0.60	127	0.13	0.01	0.5	<0.2
M399404		0.37	1.61	<0.05	0.3	0.29	0.006	0.24	5.1	2.2	0.61	158	0.31	0.01	1.1	<0.2
M399405		0.21	0.92	<0.05	0.2	0.13	0.005	0.11	2.9	1.2	0.44	175	0.19	0.01	0.7	<0.2
M399406		0.80	3.21	<0.05	0.6	0.93	0.012	0.53	11.4	4.1	0.95	134	0.62	0.02	2.0	3.9
M399407		0.27	1.22	<0.05	0.2	0.18	0.005	0.17	4.3	2.0	0.67	146	0.20	0.01	0.8	<0.2
M399408		0.17	0.71	<0.05	0.1	0.05	<0.005	0.07	1.8	1.1	0.77	165	0.14	0.02	0.6	<0.2
M399409		3.87	5.78	0.09	3.6	4.31	0.030	0.43	21.4	29.4	0.06	79	16.70	0.11	8.6	20.9
M399410		0.21	0.86	<0.05	0.2	0.09	<0.005	0.12	2.6	1.5	0.56	211	0.24	0.01	0.8	<0.2
M399411		0.38	1.52	<0.05	0.3	0.1	0.008	0.23	4.8	3.0	0.64	292	0.24	0.01	1.1	<0.2
M399412		0.49	1.76	<0.05	0.3	0.04	0.007	0.30	5.8	3.6	0.76	205	0.32	0.01	1.2	<0.2
M399413		0.50	2.02	<0.05	0.4	0.06	0.008	0.32	6.9	2.9	0.63	171	0.43	0.01	1.3	<0.2
M399414		0.49	1.73	<0.05	0.3	0.8	0.009	0.27	5.4	2.6	0.71	132	0.30	0.01	1.3	1.1
M399415		0.42	1.31	<0.05	0.2	0.04	0.007	0.19	4.7	1.8	1.45	159	0.28	0.01	1.0	<0.2
M399416		0.45	0.52	0.14	<0.1	<0.01	<0.005	0.02	0.5	1.0	12.55	208	0.12	<0.01	0.3	<0.2
M399417		0.48	1.81	0.05	0.3	0.05	0.011	0.29	5.6	3.1	0.67	128	0.32	0.01	1.2	1.9
M399418		0.38	1.50	<0.05	0.2	0.05	0.007	0.22	5.3	2.4	0.52	131	0.24	0.01	1.0	1.7
M399419		0.46	1.69	<0.05	0.3	<0.1	0.008	0.27	5.4	2.6	0.67	125	0.32	0.01	1.2	2.7
M399420		0.30	1.16	<0.05	0.2	0.1	0.006	0.17	3.8	1.8	0.53	103	0.22	0.01	0.9	1.5
M399421		3.74	5.25	0.07	3.4	4.13	0.038	0.41	21.7	28.9	0.06	74	15.90	0.11	8.5	20.5
M399422		0.53	1.97	<0.05	0.4	0.15	0.008	0.30	4.6	2.6	0.55	106	0.35	0.01	1.4	3.0
M399423		2.85	10.90	0.06	1.1	0.04	0.039	0.71	11.1	11.3	1.19	604	0.88	1.61	3.9	18.8
M399424		0.75	2.93	<0.05	0.5	0.19	0.010	0.47	7.6	4.5	0.88	136	0.75	0.02	1.8	10.0
M399425		0.48	1.64	0.11	0.4	0.1	0.014	0.28	4.7	3.5	0.52	104	0.32	0.01	0.9	4.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233306**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M399240		200	3.4	22.7	0.002	0.57	0.25	3.1	2	0.3	2620	0.11	<0.05	1.6	0.052	0.52
M399241		190	4.5	35.1	0.002	0.86	0.30	3.8	2	0.5	2350	0.16	<0.05	2.0	0.078	0.85
M399242		820	2.9	18.1	<0.002	0.51	0.25	2.6	1	0.3	2610	0.09	<0.05	1.4	0.045	0.51
M399243		670	3.4	22.1	<0.002	0.68	0.24	2.7	1	0.3	2190	0.11	<0.05	1.5	0.056	0.58
M399244		190	1.4	1.2	<0.002	<0.01	<0.05	0.3	<1	<0.2	55.6	<0.05	<0.05	<0.2	<0.005	<0.02
M399245		2350	2.7	12.9	0.002	0.39	0.17	2.3	1	0.2	2860	0.07	<0.05	1.1	0.034	0.27
M399246		430	2.0	10.3	<0.002	0.30	0.13	1.7	1	0.2	2350	0.05	<0.05	0.8	0.026	0.17
M399247		390	2.5	6.1	<0.002	0.15	0.10	1.3	<1	<0.2	2820	<0.05	<0.05	0.5	0.016	0.06
M399248		280	1.3	6.6	<0.002	0.17	0.10	1.2	1	<0.2	1895	<0.05	<0.05	0.6	0.016	0.10
M399249		290	1.3	6.6	<0.002	0.17	0.13	1.2	<1	<0.2	1940	<0.05	<0.05	0.5	0.016	0.09
M399250		310	2.0	10.7	<0.002	0.27	0.16	1.5	1	0.2	1630	0.05	<0.05	0.8	0.025	0.22
M399401		380	1.0	4.7	<0.002	0.14	0.09	1.0	1	<0.2	1340	<0.05	<0.05	0.4	0.013	0.12
M399402		260	3.9	23.8	0.002	0.59	0.29	3.0	1	0.3	1605	0.11	<0.05	1.8	0.051	0.59
M399403		220	0.8	3.3	<0.002	0.09	0.08	0.8	1	<0.2	1795	<0.05	<0.05	0.3	0.008	0.06
M399404		200	2.4	12.9	0.002	0.36	0.19	1.8	1	0.2	1770	0.06	<0.05	1.0	0.029	0.24
M399405		360	1.4	5.9	0.002	0.17	0.12	1.2	<1	<0.2	1700	<0.05	<0.05	0.5	0.015	0.11
M399406		540	6.0	26.4	0.003	0.83	0.42	3.7	1	0.4	2000	0.13	0.05	2.3	0.063	0.60
M399407		350	1.8	8.7	0.002	0.24	0.18	1.6	<1	<0.2	2010	<0.05	<0.05	0.8	0.020	0.15
M399408		500	1.0	3.7	0.002	0.11	0.12	1.0	<1	<0.2	1770	<0.05	<0.05	0.3	0.012	0.06
M399409		290	20.4	19.8	0.002	0.87	60.7	5.5	1	2.3	232	0.56	0.12	4.4	0.327	11.80
M399410		150	1.3	6.2	0.002	0.18	0.24	1.0	<1	<0.2	1655	<0.05	<0.05	0.5	0.016	0.10
M399411		430	2.2	12.0	<0.002	0.35	0.23	1.7	1	0.2	1770	0.06	<0.05	1.0	0.030	0.17
M399412		260	2.4	15.3	0.002	0.48	0.19	2.0	1	0.2	2070	0.07	<0.05	1.1	0.035	0.16
M399413		950	3.2	15.7	0.002	0.48	0.23	2.5	1	0.3	2420	0.08	<0.05	1.3	0.041	0.23
M399414		850	3.9	13.8	0.002	0.44	0.19	2.1	1	0.2	2290	0.07	<0.05	1.1	0.040	0.14
M399415		360	2.4	9.6	0.002	0.28	0.15	1.6	1	0.2	1680	0.05	<0.05	0.9	0.026	0.10
M399416		190	1.4	0.9	<0.002	<0.01	<0.05	0.3	<1	<0.2	57.3	<0.05	<0.05	<0.2	<0.005	<0.02
M399417		480	3.2	14.4	0.002	0.44	0.21	2.0	<1	0.2	2120	0.07	<0.05	1.2	0.039	0.13
M399418		210	2.5	11.7	<0.002	0.33	0.17	1.8	<1	0.2	2020	0.06	<0.05	0.9	0.028	0.12
M399419		430	3.1	13.8	0.002	0.42	0.19	2.0	<1	0.2	2070	0.07	<0.05	1.1	0.037	0.14
M399420		610	2.4	8.5	0.002	0.25	0.14	1.3	1	<0.2	2150	<0.05	<0.05	0.7	0.020	0.11
M399421		270	19.5	18.8	0.002	0.84	62.5	5.2	2	2.4	225	0.54	0.14	4.4	0.316	11.55
M399422		470	3.8	16.2	0.002	0.51	0.25	2.1	1	0.2	2250	0.08	<0.05	1.2	0.042	0.22
M399423		550	5.1	23.2	<0.002	0.15	0.69	13.3	<1	0.7	830	0.26	<0.05	2.0	0.297	0.16
M399424		890	5.1	24.6	0.004	0.72	0.29	3.0	1	0.4	2220	0.11	0.05	1.8	0.054	0.32
M399425		180	2.8	11.7	0.002	0.48	0.24	1.8	<1	0.4	1730	0.06	<0.05	1.1	0.039	0.17



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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233306**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M399240		2.1	16	0.4	15.7	17	18.5
M399241		1.7	24	0.5	13.9	24	24.3
M399242		1.9	12	0.2	11.5	12	16.0
M399243		1.8	14	0.7	10.0	16	17.3
M399244		0.5	2	0.1	0.9	15	<0.5
M399245		2.7	10	0.3	14.2	11	13.1
M399246		1.4	8	0.2	8.3	6	9.8
M399247		1.4	5	0.1	7.7	4	6.1
M399248		1.2	4	0.2	6.3	3	6.5
M399249		1.2	5	0.2	6.3	4	6.8
M399250		1.6	7	0.3	7.9	6	8.3
M399401		1.3	3	0.2	6.6	4	5.2
M399402		2.5	16	0.8	13.2	16	16.5
M399403		1.1	4	0.2	5.5	<2	3.7
M399404		1.8	9	0.5	10.0	8	9.9
M399405		1.4	5	0.3	8.6	3	6.4
M399406		3.8	18	1.0	20.7	20	21.3
M399407		2.2	6	0.3	11.7	6	7.4
M399408		1.5	3	0.1	6.4	3	4.8
M399409		5.9	53	36.7	11.5	30	118.0
M399410		1.2	5	0.2	6.6	3	6.3
M399411		1.5	9	0.2	8.4	7	10.2
M399412		1.6	11	0.2	10.0	7	11.2
M399413		2.1	13	0.2	12.1	9	14.3
M399414		2.2	11	0.3	12.2	2	13.1
M399415		1.7	8	0.2	9.5	2	8.8
M399416		0.5	1	0.1	0.8	15	<0.5
M399417		1.9	10	0.2	10.6	5	12.7
M399418		1.5	8	0.2	8.9	4	9.4
M399419		1.9	10	0.2	10.2	4	12.5
M399420		2.0	6	0.3	8.6	4	7.6
M399421		5.9	51	36.0	10.9	28	113.5
M399422		1.9	12	0.6	8.4	5	14.1
M399423		1.1	88	0.5	17.4	48	40.3
M399424		3.0	17	0.4	14.8	15	19.6
M399425		1.9	11	0.3	7.3	6	10.6



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**CERTIFICATE OF ANALYSIS WH12233306**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**CERTIFICATE WH12233307**

Project: Rackla Gold - Area B  
 P.O. No.: 12-392  
 This report is for 18 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 1- OCT- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH1223307**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR															
M400259		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M400260		11.39	<0.01	0.03	0.14	7	20	0.14	0.03	19.30	0.46	3.57	0.5	<1	0.08	2.4
M400261		11.40	<0.01	0.06	0.07	9	400	0.11	0.03	19.70	0.21	2.46	0.3	<1	<0.05	1.5
M400262		11.02	<0.01	0.04	0.04	<5	70	0.09	0.02	19.70	0.22	2.09	0.2	<1	<0.05	1.1
M400263		11.86	<0.01	0.04	0.03	<5	50	<0.05	0.02	19.65	0.05	1.02	0.1	<1	<0.05	1.0
M400264		4.79	<0.01	<0.01	0.04	<5	20	0.06	0.03	20.5	0.06	0.99	0.6	<1	0.15	1.6
M400265		11.33	<0.01	0.01	0.22	9	130	0.08	0.04	19.65	<0.02	4.13	0.6	<1	0.22	2.2
M400266		11.71	<0.01	0.06	1.07	9	150	0.31	0.07	17.80	0.02	16.35	3.6	4	1.35	9.9
M400267		11.72	<0.01	0.03	1.04	9	90	0.40	0.05	17.90	0.03	18.85	3.4	3	1.43	6.7
M400268		11.60	<0.01	0.06	0.69	18	60	0.34	0.05	19.20	0.02	12.60	1.9	2	0.75	5.3
M400269		11.71	<0.01	0.04	0.84	14	110	0.36	0.05	19.15	<0.02	13.10	1.9	3	0.93	5.9
M400270		0.26	0.27	0.66	1.82	451	540	0.28	0.22	1.14	0.37	37.7	3.9	79	2.17	37.7
M400271		9.80	<0.01	0.05	0.75	13	140	0.32	0.05	19.20	0.02	11.35	1.7	2	0.85	5.2
M400272		12.50	<0.01	0.65	0.41	10	30	0.24	0.03	19.20	0.02	8.75	1.0	<1	0.40	4.2
M400273		10.48	<0.01	0.17	0.30	8	40	0.20	0.04	19.10	0.23	5.93	0.8	<1	0.28	3.3
M400274		4.83	<0.01	0.16	0.30	10	20	0.20	0.03	18.65	0.12	5.90	0.9	<1	0.27	3.6
M400275		11.74	<0.01	0.10	0.32	<5	30	0.14	0.03	19.00	0.21	5.93	0.8	<1	0.27	3.3
M400276		11.87	<0.01	0.20	0.67	17	70	0.29	0.04	19.20	0.42	6.60	1.2	4	0.86	4.9
M400276		5.79	<0.01	0.25	0.26	5	50	0.13	0.02	20.4	0.13	4.53	0.6	<1	0.23	3.3

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**CERTIFICATE OF ANALYSIS WH1223307**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M400259		0.95	0.35	0.13	0.1	0.14	0.007	0.05	2.2	1.4	11.95	964	0.44	0.02	0.2	0.9
M400260		0.58	0.19	0.14	<0.1	0.09	0.005	0.02	1.5	1.3	12.35	834	0.20	0.01	0.1	0.4
M400261		1.04	0.11	0.11	<0.1	0.06	0.005	0.01	1.3	1.0	12.35	1100	0.10	0.01	<0.1	0.3
M400262		0.26	0.10	0.13	<0.1	0.07	0.007	<0.01	0.5	1.2	12.60	540	0.08	0.01	<0.1	<0.2
M400263		0.46	0.15	0.12	<0.1	<0.01	0.010	0.02	0.5	1.1	13.05	203	0.06	0.01	0.1	1.5
M400264		0.38	0.54	0.15	0.1	0.02	<0.005	0.09	2.7	2.0	12.50	522	0.16	0.01	0.4	0.9
M400265		0.76	3.02	<0.05	0.5	0.09	0.008	0.42	11.6	6.3	10.80	460	0.32	0.01	2.3	4.8
M400266		0.79	3.06	<0.05	0.5	0.06	0.009	0.42	13.7	6.6	10.80	581	0.20	<0.01	2.2	4.4
M400267		1.19	1.94	0.14	0.3	0.1	0.008	0.28	8.2	4.3	11.90	1090	0.45	0.01	1.3	3.6
M400268		1.35	2.19	0.14	0.4	0.2	0.009	0.35	8.2	4.7	11.80	1120	0.52	0.02	1.4	3.9
M400269		3.80	5.44	0.13	3.7	4.48	0.033	0.42	19.5	25.7	0.08	77	14.90	0.11	7.9	16.8
M400270		1.11	1.96	0.15	0.4	0.1	0.010	0.30	7.1	4.4	11.85	903	0.61	0.02	1.4	3.5
M400271		0.81	1.11	0.14	0.2	0.1	<0.005	0.17	6.2	3.1	11.90	844	0.46	0.02	0.8	2.4
M400272		0.55	0.80	0.15	0.2	0.1	0.012	0.12	4.1	2.2	12.05	645	0.43	0.01	0.5	1.6
M400273		0.52	0.84	0.19	0.2	<0.1	0.005	0.12	4.0	2.2	11.80	608	0.55	0.01	0.5	1.7
M400274		0.67	0.82	0.15	0.2	<1	<0.005	0.12	4.0	2.4	11.85	689	0.41	0.01	0.5	1.7
M400275		0.93	1.70	0.14	0.4	0.1	0.009	0.30	3.6	3.0	12.00	724	0.78	0.02	1.0	3.2
M400276		0.52	0.70	0.17	0.2	0.1	<0.005	0.10	2.7	1.6	12.85	541	0.29	0.01	0.5	1.2



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 Account: RCM

Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233307**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M400259		230	6.4	1.3	<0.002	0.37	0.17	0.3	<1	0.2	69.1	<0.05	0.05	0.3	0.007	0.39
M400260		180	11.6	0.6	0.002	0.15	0.24	0.2	<1	0.2	70.5	<0.05	<0.05	0.2	<0.005	0.11
M400261		110	6.2	0.2	0.002	0.23	0.13	0.1	<1	0.2	38.1	<0.05	<0.05	<0.2	<0.005	0.10
M400262		100	6.8	0.2	0.002	0.03	0.18	0.1	<1	0.2	49.5	<0.05	<0.05	<0.2	<0.005	0.02
M400263		190	1.4	0.9	0.002	<0.01	0.06	0.1	<1	0.2	44.4	<0.05	0.05	<0.2	<0.005	<0.02
M400264		250	4.5	2.3	<0.002	0.13	0.10	0.6	1	0.2	65.6	<0.05	<0.05	0.5	0.010	0.07
M400265		420	13.9	13.2	<0.002	0.52	0.15	2.5	1	0.3	96.3	0.20	<0.05	2.5	0.045	0.33
M400266		370	10.1	13.5	<0.002	0.42	0.12	2.6	1	0.3	100.5	0.21	<0.05	2.5	0.043	0.27
M400267		460	15.8	7.7	0.002	0.60	0.18	1.6	<1	0.4	107.5	0.08	<0.05	1.7	0.031	0.45
M400268		490	19.0	9.4	0.003	0.68	0.25	1.8	<1	0.4	107.0	0.10	<0.05	1.9	0.039	0.52
M400269		280	17.0	15.6	0.003	0.84	53.7	5.2	2	2.4	220	0.47	0.11	3.9	0.315	12.20
M400270		450	15.7	8.2	0.004	0.55	0.30	1.5	<1	0.4	89.4	0.09	<0.05	1.7	0.035	0.39
M400271		470	9.3	4.7	0.002	0.31	0.13	0.9	1	0.2	89.5	0.05	<0.05	0.9	0.019	0.21
M400272		330	18.0	3.4	0.002	0.20	0.23	0.6	<1	0.3	80.8	<0.05	<0.05	0.7	0.014	0.12
M400273		370	9.6	3.4	0.002	0.20	0.19	0.6	<1	0.3	79.3	<0.05	<0.05	0.7	0.014	0.14
M400274		400	14.4	3.2	0.003	0.31	0.18	0.6	<1	0.2	83.9	<0.05	<0.05	0.7	0.013	0.29
M400275		310	23.7	10.5	0.003	0.44	0.25	1.2	<1	0.3	83.7	0.08	<0.05	1.3	0.031	0.39
M400276		320	16.9	3.4	0.002	0.21	0.19	0.6	<1	0.3	82.4	<0.05	<0.05	0.6	0.014	0.19

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Project: Rackla Gold - Area B

**CERTIFICATE OF ANALYSIS WH12233307**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M400259		1.2	2	0.1	2.0	221	2.5
M400260		1.0	1	0.1	2.1	88	1.6
M400261		0.7	1	<0.1	1.7	34	0.8
M400262		0.7	<1	<0.1	1.3	13	0.6
M400263		0.5	2	0.1	0.8	15	<0.5
M400264		1.1	2	0.1	2.6	7	4.0
M400265		2.6	8	0.4	6.6	10	16.8
M400266		2.8	8	0.3	7.8	7	17.2
M400267		2.7	5	0.3	6.4	5	12.3
M400268		3.0	7	0.3	6.4	7	14.3
M400269		5.5	51	33.5	9.9	27	121.5
M400270		2.8	6	0.3	5.6	14	12.8
M400271		2.5	4	1.7	5.1	6	7.4
M400272		2.0	3	0.2	3.6	43	5.5
M400273		2.2	3	0.2	3.9	26	6.0
M400274		2.1	2	0.1	3.7	315	5.2
M400275		2.1	9	0.3	4.4	62	13.5
M400276		1.5	3	0.2	3.1	54	6.4



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**CERTIFICATE OF ANALYSIS WH12233307**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE VA12207634**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 337  
 This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 5- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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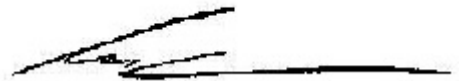
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207634**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K309639		3.66	<0.01	0.37	0.32	769	200	0.33	0.02	22.9	1.92	4.13	0.8	2	0.38	2.9
K309640		7.40	<0.01	0.18	0.22	284	120	0.15	0.02	22.3	0.84	2.49	0.7	1	0.23	2.3
K309641		1.68	0.01	3.98	4.45	131.0	3760	1.39	0.17	4.41	2.91	41.8	6.9	195	11.50	94.8
K309642		3.60	<0.01	2.84	4.88	128.0	3530	1.25	0.18	2.64	1.17	47.4	5.1	222	11.90	54.3
K309643		3.20	<0.01	1.30	5.55	183.0	1710	1.53	0.21	0.39	1.61	54.7	5.7	165	14.20	62.1
K309644		6.98	<0.01	0.01	0.06	<5	20	<0.05	0.01	21.3	0.06	1.08	0.7	<1	0.11	2.8
K309645		6.98	<0.01	1.02	4.34	159.5	4370	1.17	0.17	4.88	2.34	42.5	5.7	132	11.55	59.3
K309646		3.00	<0.01	0.41	0.87	34	5400	0.29	0.04	23.7	1.80	9.89	3.8	33	1.76	15.4
K309647		8.16	<0.01	1.58	5.32	103.0	4000	1.53	0.22	1.09	2.64	50.7	8.8	150	14.70	79.9
K309648		5.08	<0.01	1.01	5.12	76.0	3350	1.49	0.21	1.12	1.56	45.7	7.7	136	14.90	70.8
K309649		2.44	<0.01	1.08	5.55	87.7	3910	1.66	0.23	1.35	1.49	51.3	7.9	147	15.80	80.2
K309650		2.62	<0.01	1.02	5.16	61.8	3310	1.31	0.21	1.98	0.88	47.0	5.8	143	16.35	56.7
K311501		2.36	<0.01	0.68	2.16	61	3280	0.82	0.10	14.85	4.00	21.1	4.2	73	5.13	40.4
K311502		9.32	<0.01	1.10	4.74	94.4	1910	1.39	0.22	3.05	2.57	47.4	4.9	178	13.85	78.9
K311503		9.70	<0.01	0.89	4.39	165.5	1940	1.15	0.20	4.78	2.19	43.5	5.7	129	11.65	68.0
K311504		9.94	<0.01	0.80	4.65	31.5	1110	1.12	0.21	5.38	0.64	41.0	5.2	139	15.20	63.4
K311505		0.28	0.27	0.68	1.91	451	610	0.32	0.26	1.07	0.37	37.2	3.8	78	2.01	40.0
K311506		9.66	<0.01	0.85	4.37	41.1	1030	1.21	0.21	4.87	0.64	42.6	5.3	135	15.60	66.7
K311507		10.14	0.01	0.69	4.38	22.5	990	1.24	0.20	5.63	0.54	42.0	5.2	116	15.40	59.4
K311508		10.52	<0.01	0.63	4.36	19.6	1000	1.18	0.20	6.43	0.55	40.0	5.2	113	14.95	56.3
K311509		9.52	<0.01	0.68	4.14	22.0	820	1.14	0.18	6.76	0.49	42.2	5.1	106	14.60	50.1
K311510		10.88	<0.01	0.76	4.27	82.1	970	1.10	0.18	5.60	0.48	37.9	4.3	123	13.55	54.4
K311511		11.08	<0.01	0.66	4.24	29.9	800	1.21	0.18	6.34	0.46	40.2	4.9	103	13.95	48.2
K311512		<0.02	<0.01	0.77	4.33	32.4	1050	1.21	0.20	4.57	0.47	42.2	4.7	115	14.85	55.6
K311513		9.52	0.04	0.79	4.89	97.3	730	1.36	0.22	2.47	0.35	47.2	6.3	116	14.45	54.3
K311514		5.30	2.71	1.15	5.53	383	680	1.46	0.24	0.73	0.67	56.9	9.0	128	12.15	61.6
K311515		2.18	0.05	1.11	3.78	313	1650	0.92	0.19	0.08	0.26	39.2	2.6	87	10.25	23.2
K311516		6.98	<0.01	0.01	0.07	<5	30	0.06	0.03	21.2	0.05	1.31	0.6	<1	0.15	2.1
K311517		9.46	0.01	1.13	3.81	176.5	950	1.09	0.20	2.66	0.50	38.5	5.7	96	9.99	50.9
K311518		4.16	<0.01	1.26	4.15	152.5	670	1.21	0.19	0.32	0.49	40.0	5.8	106	11.15	58.3
K311519		5.00	<0.01	1.37	4.39	160.0	1020	1.19	0.22	0.08	0.15	46.1	4.0	124	13.20	61.5
K311520		4.26	<0.01	1.29	4.51	156.5	610	1.44	0.23	0.21	0.64	44.2	6.6	127	13.50	71.5
K311521		4.74	0.01	1.21	4.34	133.0	470	1.34	0.21	0.24	0.60	41.9	6.1	117	12.70	65.2
K311522		0.28	4.03	0.72	2.68	339	770	0.59	0.47	9.68	0.51	42.0	4.4	40	2.24	31.5
K311523		5.14	0.65	1.14	4.09	296	580	1.23	0.20	0.74	0.42	40.8	6.1	93	10.90	48.1
K311524		5.10	3.50	1.11	3.95	534	460	1.16	0.20	0.17	0.59	39.6	6.0	107	10.90	56.1

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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207634**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K309639		0.39	1.06	0.16	0.2	4.77	<0.005	0.09	2.2	2.6	9.56	430	0.41	0.01	0.9	2.3
K309640		0.28	0.68	0.19	0.1	2.34	<0.005	0.06	1.4	1.7	10.95	90	0.76	0.01	0.3	3.5
K309641		3.19	10.95	0.25	2.1	0.40	0.047	1.45	31.5	17.0	0.24	90	8.28	0.02	6.9	138.5
K309642		2.49	12.45	0.25	2.1	0.39	0.034	1.69	36.5	21.6	0.26	65	9.95	0.02	7.9	111.0
K309643		2.68	14.85	0.21	2.6	0.39	0.039	1.95	41.4	20.1	0.26	44	6.37	0.04	9.5	97.7
K309644		0.50	0.21	0.14	<0.1	<0.01	<0.005	0.02	0.5	1.0	12.75	197	0.11	0.01	0.2	1.2
K309645		2.32	11.70	0.22	1.9	0.33	0.040	1.49	32.9	19.6	0.24	62	7.99	<0.01	7.3	107.5
K309646		1.46	2.17	0.15	0.8	0.06	0.007	0.30	8.8	4.6	0.68	143	4.15	<0.01	1.5	57.4
K309647		3.07	14.05	0.20	2.3	0.40	0.046	1.72	35.7	24.0	0.24	69	7.98	0.03	9.0	129.5
K309648		2.41	12.70	0.18	2.1	0.51	0.044	1.61	34.3	14.8	0.26	50	7.74	0.03	8.2	114.0
K309649		2.74	13.50	0.25	2.1	0.53	0.042	1.75	36.7	16.0	0.28	54	7.68	0.04	8.9	121.5
K309650		2.19	12.95	0.21	2.5	0.44	0.049	1.65	33.4	13.9	0.27	60	6.91	0.04	8.5	86.0
K311501		3.63	5.05	0.21	1.3	0.25	0.022	0.69	15.7	9.4	2.09	245	4.85	<0.01	3.4	81.7
K311502		2.43	12.75	0.25	2.1	0.43	0.045	1.63	34.6	20.2	0.29	56	9.60	0.04	8.8	128.5
K311503		2.82	11.80	0.19	1.9	0.38	0.040	1.49	28.5	22.4	0.49	120	8.18	0.03	8.2	108.5
K311504		2.43	12.05	0.22	2.0	0.43	0.044	1.52	29.1	19.1	0.55	88	5.87	0.05	8.2	90.2
K311505		3.95	5.84	0.15	3.3	3.82	0.028	0.42	18.1	25.3	0.06	74	15.85	0.11	8.1	16.4
K311506		2.20	12.25	0.19	2.0	0.30	0.037	1.42	28.1	21.3	0.44	84	7.07	0.04	8.6	95.5
K311507		2.52	11.80	0.19	1.9	0.20	0.042	1.43	27.3	18.8	0.74	82	4.68	0.04	8.0	79.1
K311508		2.66	11.15	0.19	1.9	0.19	0.041	1.43	27.0	16.4	0.79	86	4.35	0.05	7.7	77.9
K311509		2.94	11.20	0.18	1.9	0.22	0.044	1.38	26.0	15.3	1.13	113	4.90	0.04	7.8	65.7
K311510		2.33	11.15	0.16	1.9	0.31	0.037	1.43	26.1	14.9	0.51	72	4.58	0.04	7.9	74.5
K311511		2.84	11.05	0.19	2.0	0.37	0.037	1.40	26.6	12.0	1.10	108	5.37	0.04	7.9	61.4
K311512		2.26	11.60	0.20	2.1	0.46	0.036	1.43	27.2	12.5	0.57	73	6.06	0.04	8.3	75.4
K311513		2.53	13.55	0.19	2.1	1.45	0.045	1.67	30.1	14.1	0.51	103	5.11	0.04	9.0	70.8
K311514		2.68	15.75	0.22	2.4	14.3	0.042	1.95	34.3	24.7	0.35	84	16.70	0.03	10.3	90.9
K311515		1.49	11.05	0.19	1.8	9.4	0.022	1.29	24.6	29.5	0.18	27	4.29	0.02	8.0	34.1
K311516		0.46	0.24	0.14	<0.1	0.01	<0.005	0.03	0.6	1.2	12.65	195	2.09	0.01	0.2	1.4
K311517		2.37	10.40	0.21	1.7	2.74	0.032	1.30	25.6	14.1	0.48	73	7.47	0.03	7.1	66.7
K311518		1.98	11.20	0.18	1.9	2.46	0.033	1.38	25.1	14.8	0.26	39	6.84	0.03	7.7	80.0
K311519		1.71	12.45	0.21	2.1	2.21	0.039	1.45	30.1	21.3	0.20	33	5.36	0.03	8.7	73.5
K311520		1.94	12.40	0.21	2.1	4.48	0.041	1.49	29.9	19.3	0.22	41	6.89	0.03	8.5	101.5
K311521		1.74	12.00	0.19	2.1	7.53	0.038	1.44	27.1	15.3	0.23	39	8.70	0.03	8.1	90.1
K311522		1.77	6.32	0.15	1.3	4.76	0.022	0.80	22.2	51.0	4.76	330	9.33	0.01	5.3	29.0
K311523		2.17	11.10	0.17	1.8	12.3	0.042	1.33	25.0	15.3	0.37	52	4.80	0.03	7.5	64.4
K311524		1.92	11.45	0.20	1.8	34.2	0.031	1.30	25.7	20.6	0.19	45	8.99	0.03	7.7	75.5



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207634**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K309639		120	45.5	3.9	<0.002	0.26	0.81	2.7	<1	0.8	218	0.05	<0.05	0.6	0.018	1.47
K309640		90	36.4	2.5	0.004	0.17	2.02	2.6	<1	0.3	190.5	<0.05	<0.05	0.4	0.011	1.12
K309641		1340	13.4	81.3	0.007	0.17	3.21	12.6	12	1.4	421	0.50	0.11	6.6	0.229	1.35
K309642		950	20.0	101.0	0.019	0.23	3.50	11.8	8	1.5	284	0.54	0.13	7.3	0.262	1.24
K309643		830	50.3	113.5	0.024	0.14	2.95	13.3	5	1.8	127.0	0.65	0.10	8.4	0.300	1.17
K309644		190	1.1	0.9	<0.002	<0.01	0.05	0.2	<1	0.2	45.1	<0.05	<0.05	<0.2	<0.005	<0.02
K309645		1010	33.1	88.5	0.029	0.19	3.05	10.9	8	1.5	353	0.50	0.13	6.4	0.233	0.87
K309646		360	3.9	15.4	0.011	0.28	0.81	3.3	4	0.4	1400	0.11	<0.05	1.4	0.044	0.21
K309647		1840	28.7	108.5	0.016	0.23	4.68	12.2	9	1.6	297	0.57	0.17	7.0	0.278	1.27
K309648		1650	13.7	92.8	0.019	0.22	2.52	10.3	10	1.5	189.0	0.54	0.10	6.7	0.281	1.07
K309649		1740	13.4	99.1	0.021	0.25	2.82	10.9	12	1.6	230	0.55	0.12	6.9	0.307	1.16
K309650		1590	14.0	99.9	0.021	0.37	2.25	9.8	14	1.6	213	0.52	0.06	6.4	0.289	1.36
K311501		1230	9.1	35.0	0.008	0.38	2.95	11.0	15	0.7	852	0.20	0.06	2.8	0.109	0.63
K311502		840	10.3	98.1	0.023	0.67	7.81	12.0	33	1.5	200	0.56	0.12	6.1	0.274	1.55
K311503		1160	8.9	88.7	0.016	0.76	5.85	12.2	18	1.5	335	0.50	0.09	5.8	0.247	1.38
K311504		990	10.1	90.9	0.014	1.56	1.88	10.5	10	1.5	337	0.52	0.10	5.8	0.274	1.46
K311505		280	16.9	16.7	<0.002	0.85	60.9	4.9	1	2.8	221	0.51	0.10	3.8	0.297	12.05
K311506		740	9.5	89.9	0.021	1.47	1.95	10.7	10	1.5	366	0.52	0.08	5.6	0.258	1.12
K311507		1050	9.8	87.3	0.012	1.66	1.84	10.3	8	1.4	406	0.49	0.05	5.9	0.253	1.12
K311508		1200	9.3	86.2	0.008	1.80	1.84	10.2	8	1.3	460	0.49	0.08	5.6	0.253	1.30
K311509		1250	9.2	83.5	0.014	1.61	1.77	10.5	8	1.4	473	0.50	0.05	5.3	0.249	1.46
K311510		860	9.2	82.5	0.011	1.87	1.76	9.5	9	1.3	390	0.47	0.07	5.2	0.258	2.79
K311511		1160	9.6	85.4	0.009	1.75	1.70	9.5	7	1.4	440	0.48	<0.05	5.3	0.252	4.62
K311512		780	9.3	89.2	0.011	1.80	1.58	9.7	7	1.5	324	0.53	0.07	5.6	0.262	5.48
K311513		770	11.9	100.5	0.006	1.90	2.28	11.0	8	1.6	183.5	0.57	0.12	6.2	0.288	4.27
K311514		1700	24.9	107.0	0.033	2.56	5.71	10.9	10	2.4	149.0	0.61	0.05	7.1	0.302	18.05
K311515		560	13.6	78.5	0.013	0.33	5.74	6.4	9	1.5	136.0	0.49	0.13	5.1	0.229	13.60
K311516		270	1.4	1.2	<0.002	<0.01	0.07	0.2	<1	<0.2	50.4	<0.05	<0.05	<0.2	<0.005	0.03
K311517		490	10.2	77.4	0.016	1.43	2.97	9.3	9	1.3	177.5	0.45	0.08	5.0	0.223	12.00
K311518		450	9.9	79.1	0.017	1.50	2.53	8.2	9	1.3	84.6	0.49	0.08	5.4	0.242	16.55
K311519		320	10.5	91.6	0.020	1.14	2.22	10.1	11	1.5	86.6	0.55	0.06	5.9	0.258	14.85
K311520		560	11.1	95.5	0.018	1.63	2.27	10.4	11	1.6	101.0	0.55	0.12	6.3	0.261	9.79
K311521		500	10.3	90.9	0.014	1.64	2.15	9.3	8	1.5	66.0	0.49	0.07	5.6	0.255	7.62
K311522		510	8.9	45.5	0.007	1.36	93.5	4.1	2	2.6	55.5	0.37	0.21	5.4	0.143	2.38
K311523		550	10.2	80.1	0.015	1.89	2.76	9.4	8	1.4	86.1	0.47	0.10	5.1	0.234	12.60
K311524		640	10.2	80.5	0.013	1.92	2.49	6.8	7	1.7	89.1	0.47	0.05	5.0	0.229	40.1



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207634**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn
Units		ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2
K309639		3.6	22	1.4	8.7	358
K309640		5.8	26	0.6	4.2	102
K309641		6.4	249	10.7	46.6	623
K309642		7.3	254	5.3	33.5	344
K309643		6.3	268	3.2	29.7	364
K309644		0.8	3	0.1	0.8	16
K309645		7.1	214	1.7	26.0	398
K309646		5.5	75	0.6	19.0	250
K309647		7.2	241	2.1	43.6	515
K309648		8.6	221	1.3	42.8	398
K309649		8.5	242	1.3	45.6	438
K309650		7.8	230	1.2	31.1	285
K311501		5.3	190	1.4	47.4	303
K311502		7.6	226	2.8	33.9	379
K311503		6.8	216	2.4	33.9	340
K311504		7.0	211	1.2	30.6	252
K311505		5.7	51	35.7	9.5	29
K311506		7.0	194	1.3	31.4	260
K311507		6.2	208	1.1	29.4	234
K311508		5.8	202	1.1	32.6	234
K311509		5.6	213	1.1	29.7	208
K311510		5.5	206	1.6	26.8	227
K311511		5.6	211	1.1	25.9	201
K311512		6.1	203	1.1	26.0	221
K311513		5.5	219	1.7	27.2	212
K311514		9.4	235	5.8	31.9	206
K311515		4.2	195	4.2	14.3	143
K311516		0.8	3	0.1	0.9	15
K311517		5.9	182	1.7	24.6	185
K311518		5.7	200	1.6	24.3	202
K311519		5.9	212	1.8	23.4	123
K311520		7.8	220	1.9	33.5	226
K311521		9.1	208	1.8	23.2	261
K311522		5.3	91	62.4	13.4	68
K311523		7.1	193	3.0	23.2	192
K311524		8.5	201	3.4	23.6	206

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207634**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE VA12207635**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 346  
 This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 5- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207635**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K311525		5.46	11.90	1.03	4.15	1490	630	1.28	0.22	0.21	1.59	44.1	7.2	119	14.50	59.6
K311526		1.96	47.6	0.46	1.00	2560	520	0.22	0.06	0.44	0.86	10.65	4.7	42	1.69	14.4
K311527		2.68	78.6	0.64	1.17	8770	550	0.25	0.09	0.38	2.01	11.75	7.9	50	1.96	19.6
K311528		4.60	24.1	1.10	3.62	3900	920	1.00	0.34	0.18	1.23	33.3	6.5	91	9.90	48.1
K311529		0.28	4.36	0.72	2.67	458	780	0.55	0.43	9.78	0.54	38.5	5.2	39	2.38	32.9
K311530		2.62	14.90	1.35	3.82	1715	910	1.17	0.17	0.20	0.68	34.8	5.6	113	11.40	63.7
K311531		2.46	0.13	0.94	4.35	282	1120	1.44	0.18	2.26	0.42	40.1	7.1	103	14.40	51.0
K311532		5.50	0.02	0.99	4.89	207	1030	1.56	0.20	1.35	0.33	41.7	7.9	95	16.40	55.2
K311533		6.98	<0.01	0.01	0.05	<5	240	<0.05	0.03	19.75	0.06	1.15	1.3	<1	0.13	3.4
K311534		5.84	0.01	0.89	5.67	152.5	1150	1.82	0.21	2.27	0.36	49.3	8.8	116	21.8	54.7
K311535		4.84	<0.01	1.14	3.73	77.5	1120	1.09	0.15	7.52	0.63	34.0	4.9	125	13.30	60.2
K311536		5.72	0.01	0.92	3.83	105.5	970	1.25	0.16	3.27	0.52	36.8	5.6	105	14.00	58.8
K311537		11.30	<0.01	0.97	3.85	76.5	1470	1.23	0.16	4.68	0.62	36.2	5.3	115	14.50	59.2
K311538		10.16	0.01	0.90	4.06	129.5	1250	1.19	0.16	5.83	0.47	38.4	5.7	111	12.15	52.5
K311539		11.26	0.03	0.98	4.61	121.0	1200	1.72	0.18	3.76	0.77	43.9	6.8	121	12.90	57.2
K311540		10.30	0.04	2.02	4.23	305	1230	1.38	0.16	3.48	1.83	37.2	6.5	156	9.89	56.9
K311541		10.34	<0.01	1.22	3.83	75.1	1020	1.14	0.14	6.96	0.90	33.6	5.0	103	12.65	43.5
K311542		11.14	0.01	1.41	3.70	42.9	970	1.05	0.14	8.68	0.61	31.8	4.5	123	12.80	57.3
K311543		4.36	0.01	1.22	3.59	40.0	1150	0.98	0.12	9.58	0.55	30.6	4.4	112	12.20	52.1
K311544		11.36	<0.01	0.89	4.13	44.9	1230	1.39	0.18	3.46	0.38	40.3	6.1	115	12.95	55.8
K311545		10.44	<0.01	1.09	3.62	80.4	1190	1.27	0.14	6.76	0.57	32.8	5.4	106	9.94	52.4
K311546		10.68	0.01	1.11	3.36	73.7	1030	1.08	0.14	7.63	0.55	31.5	4.7	100	8.81	48.9
K311547		9.94	<0.01	2.19	3.32	129.5	810	1.02	0.14	5.56	1.22	30.4	4.1	142	7.46	43.8
K311548		10.06	<0.01	1.74	4.77	83.3	1150	1.49	0.17	3.55	0.72	39.4	6.3	161	14.70	57.3
K311549		<0.02	0.01	1.77	4.89	83.8	1290	1.50	0.17	3.60	0.74	40.0	6.5	162	14.90	58.6
K311550		8.66	<0.01	1.84	3.48	65.7	210	0.88	0.16	8.01	0.80	29.9	3.9	136	9.12	45.4
K311551		9.34	0.01	1.78	3.69	164.5	410	1.10	0.17	5.36	3.43	34.9	5.2	133	8.34	60.2
K311552		8.82	<0.01	1.31	4.08	76.1	270	1.54	0.21	0.35	0.59	40.4	6.0	109	9.29	65.9
K311553		4.18	0.01	0.95	4.11	99.7	200	1.42	0.20	0.36	0.54	38.5	5.6	135	9.34	83.1
K311554		0.28	0.27	0.71	1.88	464	410	0.32	0.22	1.07	0.37	41.0	3.9	80	2.13	40.6
K311555		4.82	0.01	1.17	4.06	158.5	230	1.60	0.21	0.28	0.93	39.8	4.8	247	10.30	99.2
K311556		3.20	<0.01	1.41	4.87	236	240	1.65	0.20	0.24	0.99	43.3	5.8	259	11.85	88.4
K311557		6.98	0.01	0.16	0.05	<5	40	<0.05	0.02	20.4	0.06	1.17	0.6	<1	0.14	2.4
K311558		4.92	<0.01	1.06	4.74	186.0	260	1.63	0.21	0.46	0.82	42.4	5.5	253	13.45	83.4
K311559		4.18	<0.01	0.48	0.86	114	1160	0.41	0.04	22.6	0.82	10.20	1.3	53	1.99	15.4
K311560		5.62	<0.01	0.41	0.97	82	1640	0.43	0.05	23.6	0.85	10.55	1.4	51	2.02	18.0



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207635**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K311525		2.29	12.25	0.17	2.2	87.0	0.039	1.49	31.8	28.5	0.20	33	7.69	0.03	8.0	84.1
K311526		2.11	2.51	0.07	0.6	>100	0.013	0.34	7.7	92.9	0.18	45	3.46	0.01	1.8	36.2
K311527		2.51	2.81	0.11	0.6	>100	0.024	0.37	8.2	93.9	0.15	51	4.97	0.01	1.9	51.8
K311528		2.25	9.23	0.16	1.6	>100	0.031	1.22	23.7	43.0	0.16	45	4.65	0.02	6.0	67.4
K311529		1.73	5.90	0.12	1.4	5.37	0.025	0.80	23.0	52.7	5.00	360	9.07	0.01	5.5	30.4
K311530		1.88	10.50	0.18	1.8	>100	0.035	1.27	26.4	30.7	0.18	33	10.95	0.03	7.2	94.6
K311531		2.43	11.00	0.18	1.9	10.3	0.043	1.50	27.4	15.1	0.49	86	5.32	0.03	7.9	74.3
K311532		2.69	12.70	0.18	2.0	2.26	0.049	1.67	26.1	17.6	0.47	104	3.80	0.03	8.9	68.4
K311533		0.43	0.26	0.22	<0.1	0.04	<0.005	0.02	0.6	1.1	12.60	202	0.13	<0.01	0.3	2.5
K311534		2.85	14.25	0.20	2.2	0.80	0.055	1.90	30.9	15.8	0.74	146	6.19	0.05	9.8	69.3
K311535		1.96	9.17	0.17	1.8	0.60	0.036	1.29	27.4	10.5	0.63	78	7.30	0.03	6.8	91.1
K311536		2.00	10.00	0.17	1.9	0.65	0.036	1.35	26.2	12.2	0.55	63	5.76	0.03	7.3	73.0
K311537		1.88	9.81	0.16	1.8	0.67	0.043	1.34	26.6	12.0	0.56	63	8.40	0.03	7.3	85.3
K311538		2.50	10.50	0.16	1.9	0.89	0.039	1.47	26.5	14.0	0.87	105	4.65	0.03	7.7	73.6
K311539		2.25	12.45	0.19	2.1	1.33	0.044	1.73	29.3	15.8	0.55	106	4.22	0.03	8.7	74.3
K311540		2.64	10.50	0.20	1.9	3.86	0.043	1.56	27.2	17.1	0.51	90	10.95	0.02	7.7	101.0
K311541		2.55	9.26	0.16	1.6	0.99	0.037	1.23	26.3	12.2	0.91	112	5.31	0.03	7.0	71.4
K311542		2.42	8.96	0.14	1.6	0.16	0.032	1.23	25.5	14.8	0.88	99	5.59	0.04	6.9	89.3
K311543		2.40	8.42	0.15	1.6	0.15	0.032	1.16	24.3	14.3	1.07	112	5.01	0.04	6.7	80.2
K311544		2.08	11.40	0.17	1.9	0.17	0.044	1.43	29.2	16.1	0.51	100	4.05	0.03	8.8	68.3
K311545		1.94	9.11	0.13	1.7	0.30	0.034	1.26	24.3	12.2	0.59	97	6.96	0.03	6.7	74.3
K311546		2.48	8.20	0.15	1.6	0.40	0.035	1.17	23.5	9.7	0.69	113	6.57	0.02	6.5	69.1
K311547		2.87	8.21	0.19	1.4	0.81	0.036	1.11	27.9	17.2	0.61	107	7.69	0.04	6.1	79.4
K311548		3.06	11.35	0.17	1.9	0.73	0.045	1.67	27.0	14.3	0.53	89	5.54	0.04	8.1	103.5
K311549		3.18	11.70	0.20	2.0	0.73	0.046	1.70	27.5	15.1	0.54	94	5.70	0.04	8.4	105.5
K311550		2.66	8.81	0.12	1.5	0.60	0.035	1.26	21.7	12.5	1.10	116	6.64	0.03	6.1	78.0
K311551		2.41	10.15	0.13	2.0	0.48	0.034	1.39	23.5	20.3	0.31	81	9.79	0.03	7.2	87.7
K311552		2.36	12.35	0.14	2.1	0.25	0.037	1.61	22.9	17.2	0.28	79	4.74	0.03	8.5	54.1
K311553		2.39	12.40	0.13	2.2	0.27	0.048	1.59	24.5	17.5	0.26	64	8.10	0.03	9.0	77.4
K311554		4.04	5.64	0.11	3.6	3.76	0.029	0.44	19.3	25.9	0.06	75	15.75	0.11	7.9	17.3
K311555		2.43	11.60	0.15	2.3	0.31	0.042	1.56	27.8	16.7	0.26	28	12.15	0.04	8.1	140.0
K311556		2.68	13.25	0.18	2.5	0.32	0.050	1.86	30.2	20.8	0.30	33	7.74	0.04	8.9	143.5
K311557		0.48	0.19	0.09	<0.1	<0.01	0.005	0.02	0.5	1.1	12.75	202	0.27	<0.01	0.2	1.9
K311558		2.71	12.60	0.21	2.3	0.34	0.046	1.83	31.1	15.4	0.34	36	8.23	0.05	8.3	131.5
K311559		0.58	2.30	0.08	0.7	0.08	0.009	0.32	9.9	4.7	0.48	98	3.99	0.01	1.6	26.8
K311560		0.81	2.57	0.10	0.6	0.09	0.010	0.38	9.1	5.6	0.49	86	4.32	0.01	1.9	27.4

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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207635**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K311525		880	13.8	86.2	0.017	2.47	4.39	7.7	11	2.6	132.5	0.55	0.09	6.6	0.261	178.5
K311526		780	12.9	15.7	0.003	2.16	2.93	2.0	4	2.8	113.5	0.12	0.05	1.5	0.057	300
K311527		970	15.8	17.3	0.003	2.77	4.68	2.0	4	4.1	158.5	0.12	0.06	1.7	0.065	620
K311528		740	20.5	62.0	0.012	2.48	2.82	4.5	7	2.8	115.0	0.41	0.08	4.8	0.218	216
K311529		540	10.5	43.8	0.008	1.41	82.8	4.4	2	2.3	56.8	0.36	0.16	5.7	0.154	2.58
K311530		580	11.2	70.7	0.019	1.91	2.43	6.1	9	2.3	99.4	0.48	0.08	5.3	0.233	131.0
K311531		510	12.4	80.8	0.010	2.04	1.68	11.7	7	1.3	160.5	0.53	0.09	5.9	0.268	9.95
K311532		800	13.9	93.5	0.010	2.28	1.80	11.1	6	1.5	147.0	0.59	0.10	6.2	0.281	5.72
K311533		190	1.5	1.0	<0.002	0.02	<0.05	0.2	1	<0.2	49.9	<0.05	<0.05	<0.2	<0.005	0.08
K311534		1290	15.9	104.5	0.015	2.16	2.01	13.3	6	1.6	211	0.65	0.11	7.2	0.321	6.03
K311535		770	9.6	69.6	0.021	1.61	1.70	9.5	11	1.1	448	0.45	0.08	5.0	0.231	3.22
K311536		730	12.8	71.8	0.019	1.69	2.46	9.7	9	1.2	232	0.50	0.07	5.3	0.239	2.98
K311537		760	10.4	73.7	0.024	1.63	2.79	9.8	10	1.2	307	0.48	0.07	5.4	0.241	2.85
K311538		1180	11.2	75.6	0.013	2.03	3.90	10.1	8	1.2	319	0.52	0.08	5.6	0.256	2.83
K311539		840	24.9	85.0	0.012	2.23	4.92	11.6	9	1.4	187.0	0.60	0.09	6.2	0.292	2.85
K311540		1580	31.5	71.3	0.023	2.96	6.45	9.6	14	1.4	232	0.50	0.10	5.3	0.261	5.01
K311541		1840	10.6	68.3	0.012	2.59	2.38	8.2	11	1.1	453	0.46	0.11	5.1	0.226	2.47
K311542		1150	9.0	66.8	0.014	2.09	1.52	8.9	11	1.0	487	0.44	0.08	4.8	0.224	0.84
K311543		1360	8.6	64.4	0.012	2.01	1.43	8.6	10	1.0	557	0.43	0.07	4.4	0.218	0.80
K311544		840	11.4	81.2	0.009	1.79	1.38	10.2	7	1.3	237	0.57	0.10	6.0	0.261	0.80
K311545		730	10.6	66.5	0.020	1.65	1.90	9.7	9	1.0	374	0.43	0.07	4.9	0.221	0.67
K311546		860	10.0	61.5	0.019	2.17	1.72	9.0	10	1.0	369	0.42	0.08	4.6	0.209	0.80
K311547		1800	10.8	56.8	0.016	3.16	3.00	7.7	14	0.9	315	0.40	0.15	4.4	0.195	1.99
K311548		1520	11.8	84.1	0.010	3.37	2.10	10.5	14	1.4	205	0.54	0.09	5.9	0.292	1.87
K311549		1560	12.6	86.3	0.010	3.47	2.15	11.0	14	1.3	209	0.55	0.11	6.3	0.295	1.99
K311550		1340	9.6	64.7	0.017	2.59	3.50	8.3	11	1.1	313	0.38	0.13	4.8	0.203	2.27
K311551		1460	13.4	68.1	0.032	2.51	6.74	10.1	12	1.3	195.5	0.47	0.14	5.2	0.220	1.93
K311552		950	15.2	79.4	0.009	2.35	2.22	12.0	6	1.4	96.4	0.52	0.12	5.8	0.259	0.98
K311553		1360	10.9	80.9	0.018	2.42	2.64	11.7	8	1.4	128.0	0.53	0.14	5.6	0.254	1.39
K311554		280	17.6	16.8	<0.002	0.84	59.1	5.3	2	2.4	230	0.40	0.19	4.4	0.305	12.50
K311555		1120	11.7	78.0	0.029	2.51	3.35	11.2	24	1.4	88.0	0.51	0.13	6.4	0.252	1.74
K311556		1060	14.6	92.9	0.022	2.71	4.06	11.3	23	1.6	115.5	0.55	0.14	7.1	0.290	1.76
K311557		170	1.4	1.0	<0.002	0.01	0.12	0.2	<1	0.2	43.2	<0.05	<0.05	<0.2	<0.005	0.05
K311558		1180	13.5	89.0	0.021	2.71	2.85	10.7	20	1.5	84.0	0.53	0.16	7.5	0.285	1.60
K311559		1110	2.8	15.3	0.019	0.60	0.91	4.3	5	0.4	1050	0.10	0.08	1.4	0.050	0.36
K311560		800	6.3	17.3	0.012	0.82	1.04	3.2	5	0.4	1110	0.16	0.06	1.6	0.059	0.38

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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207635**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV42
	Analyte	U	V	W	Y	Zn	Zr	Hg
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5	0.1
K311525		11.4	197	6.1	28.9	250	75.3	
K311526		3.6	38	2.4	6.0	47	20.4	213
K311527		8.8	46	2.9	6.2	86	21.9	423
K311528		7.4	155	5.3	21.6	220	61.1	184.5
K311529		5.2	95	65.4	15.0	74	51.3	
K311530		10.8	189	6.9	25.1	274	68.8	119.5
K311531		7.0	190	4.5	28.0	241	73.6	
K311532		5.9	204	1.9	24.1	198	75.3	
K311533		0.6	2	0.1	0.8	13	<0.5	
K311534		6.7	224	1.9	26.5	211	82.8	
K311535		9.2	178	1.2	31.3	289	70.5	
K311536		7.2	187	1.3	26.1	222	68.3	
K311537		8.6	177	1.4	26.8	247	70.2	
K311538		6.1	190	1.6	25.4	214	75.5	
K311539		6.0	227	2.4	26.5	257	81.0	
K311540		7.2	262	4.5	29.4	386	73.7	
K311541		5.7	255	1.6	28.0	254	63.5	
K311542		6.1	193	1.2	29.6	302	63.7	
K311543		5.6	187	1.1	29.7	265	62.6	
K311544		5.3	207	1.5	27.4	200	72.6	
K311545		7.8	170	1.9	24.9	209	66.7	
K311546		6.5	183	1.5	25.7	210	62.0	
K311547		5.3	296	1.9	32.5	236	56.0	
K311548		5.0	246	1.5	29.6	341	72.4	
K311549		5.3	248	1.5	30.1	345	74.5	
K311550		5.3	218	1.3	28.7	229	60.7	
K311551		6.2	304	1.7	27.2	335	70.6	
K311552		5.0	211	1.3	22.9	160	77.3	
K311553		7.9	230	1.6	25.8	222	80.8	
K311554		5.7	51	35.6	9.8	28	120.5	
K311555		10.9	230	1.9	30.1	465	83.2	
K311556		9.2	247	2.5	32.0	399	90.5	
K311557		0.6	3	0.1	0.8	16	<0.5	
K311558		9.7	243	1.9	31.9	433	87.5	
K311559		5.3	75	0.3	21.6	109	51.2	
K311560		4.6	71	0.4	13.3	115	45.1	



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12207635**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
Hg- CV42	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.



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**CERTIFICATE VA12210454**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 347  
 This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 9- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12210454**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398609		8.24	<0.01	0.36	8.32	13.2	870	2.33	0.27	0.43	0.12	101.5	13.6	107	39.8	34.4
M398610		6.54	<0.01	0.30	8.31	10.4	1550	2.20	0.28	0.61	0.09	102.0	13.3	109	35.7	33.2
M398611		6.74	<0.01	0.31	8.17	11.6	780	2.27	0.26	0.56	0.11	96.0	13.2	106	34.6	33.3
M398612		5.84	<0.01	0.31	8.61	9.3	750	2.46	0.29	0.46	0.12	102.5	13.3	108	38.7	35.0
M398613		6.98	<0.01	0.33	8.36	11.9	740	2.37	0.27	0.48	0.12	101.0	14.0	105	36.4	35.4
M398614		6.40	<0.01	0.35	8.33	9.6	810	2.14	0.27	0.52	0.08	101.0	13.4	103	34.6	34.4
K311561		8.82	<0.01	1.32	2.57	107	440	0.80	0.10	11.10	1.73	28.3	3.6	106	4.93	38.1
K311562		5.50	<0.01	2.33	3.50	115.5	490	0.95	0.14	5.17	2.25	36.8	5.6	129	6.54	74.2
K311563		4.72	<0.01	1.09	1.61	51	830	0.46	0.06	16.25	0.99	17.60	2.6	51	3.25	31.0
K311564		7.00	<0.01	<0.01	0.04	<5	20	0.05	0.01	21.0	0.07	1.21	1.5	<1	0.10	1.4
K311565		3.26	<0.01	0.66	0.65	21	1060	0.18	0.03	21.2	0.74	8.85	1.2	27	0.92	10.9
K311566		1.28	<0.01	0.59	0.66	23	1440	0.17	0.03	21.0	0.78	8.79	1.2	27	0.88	10.6
K311567		2.44	<0.01	3.25	3.87	125.0	330	1.66	0.18	0.70	15.40	32.7	8.1	106	9.91	76.9
K311568		0.28	4.22	0.76	2.73	445	700	0.67	0.44	9.49	0.58	42.2	5.2	41	2.48	33.8
K311569		6.32	0.01	2.28	4.64	280	510	1.78	0.20	0.65	11.10	40.8	11.3	83	8.60	78.8
K311570		3.98	<0.01	3.43	4.67	118.0	520	2.48	0.16	0.93	10.90	45.3	9.5	104	9.97	89.9
K311571		6.08	<0.01	3.81	4.26	79.4	310	2.23	0.15	0.90	14.00	43.1	8.5	103	11.10	81.6
K311572		5.20	<0.01	2.73	6.06	238	600	2.56	0.40	0.41	9.87	46.7	12.9	74	11.85	91.0
K311573		8.00	<0.01	2.78	6.07	135.0	590	2.55	0.26	0.42	26.5	55.4	12.9	90	16.60	92.3
K311574		3.90	<0.01	1.94	6.95	223	680	2.48	0.27	1.10	10.80	67.7	12.5	52	19.90	63.7
K311575		7.50	<0.01	6.39	3.13	70.6	640	1.83	0.14	2.15	41.3	39.3	4.8	79	11.15	81.4
K311576		<0.02	<0.01	6.68	3.16	72.5	540	1.78	0.15	2.23	41.9	40.4	5.0	80	11.40	84.0
K311577		3.26	<0.01	4.25	5.85	58.7	750	2.30	0.38	0.80	42.1	52.2	4.3	40	16.85	59.2
K311578		3.52	0.01	2.79	5.81	119.0	680	2.55	0.21	0.66	16.70	52.9	12.7	96	15.70	92.6
K311579		7.18	<0.01	2.87	4.63	84.6	480	2.46	0.17	1.54	9.64	48.1	11.2	90	12.55	78.8
K311580		7.00	<0.01	0.01	0.05	<5	30	0.07	0.02	20.5	0.08	1.18	1.5	<1	0.11	1.3
K311581		10.26	<0.01	2.05	3.96	86.7	400	1.97	0.16	2.69	9.69	37.4	10.1	67	11.05	64.8
K311582		10.24	0.01	1.76	5.98	196.0	790	2.21	0.26	5.45	21.0	59.7	14.2	65	19.05	74.3
K311583		5.56	<0.01	6.40	3.56	38.6	540	2.10	0.17	2.27	57.1	38.2	5.1	84	13.70	91.8
K311584		5.40	<0.01	3.86	2.32	33.0	620	1.34	0.11	0.26	52.3	16.70	3.9	74	9.00	74.1
K311585		8.06	<0.01	2.25	3.91	47.3	420	2.23	0.17	4.45	29.4	25.0	5.5	64	11.05	67.5
K311586		0.28	16.15	1.17	1.87	1130	210	0.41	0.58	14.75	0.75	30.9	3.9	34	2.25	64.2
K311587		9.16	0.01	4.34	3.88	38.0	620	2.22	0.18	4.44	6.90	36.1	6.3	196	9.39	95.8
K311588		7.30	0.01	2.55	2.26	60.7	540	1.55	0.10	7.32	10.30	34.6	6.6	70	8.48	51.0
K311589		7.34	<0.01	1.51	2.93	51.0	1050	1.26	0.11	3.32	7.43	31.1	7.2	60	9.24	51.2
K311590		9.12	<0.01	1.86	3.45	48.3	780	1.63	0.13	3.93	7.87	38.1	8.8	68	12.35	63.5

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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12210454**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398609		3.96	20.6	0.24	2.7	0.07	0.077	2.57	47.2	102.0	0.79	246	1.77	0.26	29.0	40.7
M398610		4.36	20.9	0.24	2.6	0.06	0.077	2.56	46.5	103.0	0.91	298	1.65	0.25	29.2	42.2
M398611		4.18	19.90	0.24	2.5	0.06	0.069	2.49	44.7	99.9	0.83	296	1.77	0.26	27.6	39.9
M398612		4.20	20.6	0.25	2.8	0.05	0.077	2.71	47.5	101.0	0.85	337	1.67	0.28	29.1	40.9
M398613		4.00	20.5	0.25	2.6	0.05	0.074	2.59	47.1	102.5	0.83	306	1.78	0.27	28.9	40.7
M398614		4.24	19.95	0.24	2.7	0.04	0.075	2.53	46.6	103.0	0.91	291	1.55	0.27	28.6	39.2
K311561		1.68	7.24	0.05	1.3	0.23	0.040	0.96	20.5	12.1	0.28	147	8.70	0.02	6.1	53.4
K311562		2.56	10.20	0.08	1.7	0.28	0.039	1.29	27.8	12.7	0.24	62	27.7	0.03	7.8	84.4
K311563		1.27	4.80	<0.05	1.0	0.13	0.019	0.60	13.6	7.5	0.17	66	11.65	0.01	3.9	32.9
K311564		0.46	0.25	0.26	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.45	208	0.26	<0.01	0.4	1.3
K311565		0.50	1.60	<0.05	0.6	0.07	0.008	0.21	8.9	6.6	0.16	61	2.01	<0.01	2.0	14.0
K311566		0.50	1.55	<0.05	0.6	0.08	0.010	0.21	9.0	6.6	0.15	58	2.00	<0.01	2.0	13.7
K311567		2.55	11.55	0.14	1.7	0.61	0.046	1.42	19.1	24.5	0.27	78	23.2	0.03	7.1	122.5
K311568		1.78	7.26	<0.05	1.4	4.98	0.028	0.84	24.3	59.9	4.98	358	10.35	0.01	6.2	32.3
K311569		4.02	13.60	0.21	2.0	0.92	0.052	1.75	22.2	24.3	0.36	85	83.7	0.03	8.1	214
K311570		2.84	14.95	0.18	1.8	0.54	0.048	1.84	27.8	24.8	0.38	94	15.20	0.04	8.9	114.0
K311571		2.51	12.80	0.16	1.8	0.54	0.048	1.56	26.6	24.5	0.34	90	16.15	0.04	8.2	110.0
K311572		3.78	16.90	0.19	2.6	0.73	0.063	2.15	26.0	33.7	0.41	73	25.7	0.04	10.3	172.5
K311573		3.45	18.05	0.25	2.5	0.81	0.065	2.28	28.1	32.8	0.45	78	32.8	0.05	11.1	173.0
K311574		4.06	18.70	0.26	3.7	0.39	0.067	2.32	35.9	32.4	0.51	79	110.5	0.04	12.5	507
K311575		1.21	9.20	0.19	1.4	0.39	0.035	1.10	24.3	21.3	0.36	52	31.6	0.03	5.6	148.0
K311576		1.23	9.54	0.21	1.5	0.37	0.035	1.10	25.0	20.8	0.36	55	32.6	0.03	5.7	150.0
K311577		1.59	15.70	0.22	2.2	0.34	0.040	1.87	26.0	23.6	0.63	147	23.9	0.03	9.0	84.1
K311578		3.37	18.20	0.22	2.3	0.56	0.063	2.15	28.6	30.4	0.54	100	28.0	0.05	11.1	156.0
K311579		3.02	14.20	0.17	1.9	0.40	0.052	1.74	27.3	23.0	0.51	115	22.9	0.04	9.3	149.0
K311580		0.45	0.29	0.29	<0.1	<0.01	0.005	0.02	0.5	1.1	12.20	202	0.14	<0.01	0.4	1.4
K311581		2.95	11.40	0.14	1.7	0.36	0.043	1.43	21.8	21.9	0.52	105	24.3	0.04	7.7	162.0
K311582		4.13	17.50	0.30	2.7	0.34	0.063	2.08	31.5	25.5	0.69	181	93.3	0.05	10.9	431
K311583		1.22	10.30	0.21	1.5	0.22	0.035	1.19	23.3	26.6	0.45	69	31.5	0.04	6.2	145.0
K311584		0.79	6.25	0.14	0.9	0.27	0.026	0.80	10.4	19.8	0.19	40	30.1	0.03	3.9	118.0
K311585		1.36	9.17	0.17	1.5	0.33	0.035	1.17	14.8	27.8	1.47	161	59.8	0.03	5.1	159.0
K311586		3.44	4.35	<0.05	0.8	6.12	0.056	0.38	17.1	42.5	0.70	461	13.45	0.01	3.8	20.9
K311587		2.29	10.70	0.19	1.5	0.37	0.045	1.31	23.9	29.8	0.45	112	13.50	0.03	6.9	188.0
K311588		2.30	7.55	0.21	1.3	0.47	0.034	0.84	26.0	16.9	0.44	156	25.9	0.03	4.5	107.0
K311589		1.99	7.98	0.19	1.4	0.15	0.035	1.04	18.2	16.6	0.55	111	17.45	0.03	4.9	105.0
K311590		2.47	10.20	0.23	1.6	0.15	0.040	1.29	24.4	17.9	0.81	114	15.35	0.04	6.4	124.5

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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12210454**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398609		1320	20.6	169.5	0.003	0.21	1.11	15.1	4	2.3	153.0	1.66	0.10	11.7	0.475	0.90
M398610		1540	20.4	167.0	0.002	0.18	0.98	14.8	3	2.4	192.5	1.70	0.11	11.7	0.478	0.88
M398611		1350	21.0	161.5	0.002	0.20	1.02	14.5	3	2.2	129.5	1.58	0.12	11.1	0.470	0.83
M398612		1390	19.5	176.5	0.002	0.20	0.96	15.6	4	2.2	125.5	1.71	0.10	12.1	0.492	0.91
M398613		1340	20.0	174.5	0.003	0.21	1.00	15.3	4	2.3	124.0	1.61	0.11	11.4	0.481	0.84
M398614		1380	18.3	163.5	0.003	0.19	1.00	14.8	4	2.4	133.5	1.67	0.09	11.7	0.484	0.82
K311561		1760	16.5	49.6	0.021	1.96	2.57	8.3	13	0.9	473	0.38	0.06	4.1	0.152	0.84
K311562		1640	46.3	66.5	0.041	3.01	6.49	9.6	17	1.2	260	0.51	0.09	5.6	0.210	1.23
K311563		1620	17.4	33.7	0.018	1.50	2.76	6.7	8	0.6	655	0.23	0.05	2.5	0.092	0.58
K311564		180	1.2	0.8	<0.002	0.01	0.05	0.2	1	<0.2	42.0	<0.05	<0.05	<0.2	<0.005	<0.02
K311565		2010	6.0	10.7	0.005	0.58	0.99	3.5	4	0.3	900	0.11	<0.05	1.2	0.038	0.28
K311566		2280	6.4	10.3	0.005	0.59	0.90	3.3	4	0.3	921	0.11	<0.05	1.3	0.038	0.29
K311567		1020	11.1	76.8	0.064	2.96	13.45	7.8	32	1.4	79.6	0.49	0.19	6.3	0.209	4.40
K311568		530	9.6	50.4	0.008	1.43	92.7	5.2	3	2.7	57.1	0.39	0.18	6.6	0.154	2.56
K311569		3150	14.0	89.1	0.175	4.63	29.8	8.7	37	1.9	142.5	0.56	0.21	7.3	0.240	8.91
K311570		4210	11.2	97.0	0.039	3.21	16.60	9.9	34	1.7	97.3	0.55	0.19	6.7	0.258	3.43
K311571		3610	10.7	87.2	0.042	2.81	12.10	9.1	31	1.5	63.1	0.54	0.19	6.7	0.239	2.90
K311572		1870	18.9	110.0	0.048	4.37	31.5	9.3	31	2.5	95.2	0.81	0.19	12.2	0.286	6.66
K311573		1750	18.7	134.5	0.075	3.86	32.0	13.6	49	2.1	82.7	0.72	0.20	9.2	0.328	5.78
K311574		990	23.2	128.5	0.358	4.81	44.6	12.7	43	2.0	103.5	0.80	0.18	11.2	0.299	10.75
K311575		8780	16.0	71.7	0.066	1.54	40.1	7.2	47	1.1	214	0.35	0.12	5.1	0.149	1.77
K311576		9080	16.6	73.2	0.067	1.54	41.3	7.4	48	1.1	223	0.35	0.13	5.3	0.151	1.84
K311577		2380	28.0	98.5	0.025	1.83	39.2	6.2	53	2.3	144.0	0.86	0.10	17.2	0.177	1.99
K311578		1980	14.9	128.0	0.055	3.76	27.9	13.6	35	2.0	91.5	0.68	0.18	8.5	0.321	4.71
K311579		4130	12.0	97.6	0.055	3.29	19.60	10.6	30	1.7	126.5	0.60	0.20	7.3	0.260	4.42
K311580		210	1.2	1.1	<0.002	<0.01	0.06	0.2	1	<0.2	43.4	<0.05	<0.05	<0.2	<0.005	<0.02
K311581		2190	10.4	82.0	0.056	3.33	12.50	9.3	26	1.5	139.5	0.51	0.16	6.0	0.224	6.24
K311582		2230	21.3	118.0	0.340	4.84	36.5	14.3	55	1.8	262	0.71	0.20	9.8	0.294	10.10
K311583		8570	19.4	78.4	0.054	1.52	48.3	7.6	56	1.1	213	0.39	0.14	6.3	0.167	1.78
K311584		910	11.6	58.1	0.043	1.00	47.1	4.4	52	0.8	42.9	0.23	0.11	3.0	0.114	1.48
K311585		1640	15.0	72.4	0.066	1.73	40.1	7.5	45	1.1	183.5	0.36	0.13	6.5	0.153	2.70
K311586		660	19.9	26.0	0.006	1.88	155.5	4.3	3	2.0	44.3	0.24	0.46	3.6	0.110	3.45
K311587		>10000	11.3	73.2	0.048	2.75	12.85	7.9	39	1.2	348	0.45	0.17	5.7	0.184	1.56
K311588		4830	6.8	49.9	0.079	2.71	13.05	6.8	31	0.9	187.0	0.26	0.16	3.3	0.123	4.10
K311589		1460	7.2	55.6	0.057	2.15	7.99	7.0	23	1.1	135.0	0.34	0.13	4.7	0.154	3.29
K311590		3300	8.5	72.8	0.046	2.65	9.76	8.8	25	1.1	167.5	0.44	0.15	5.1	0.192	3.46



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12210454**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M398609		2.8	205	1.7	24.1	132	102.5
M398610		2.7	206	1.8	23.5	124	99.8
M398611		2.6	203	1.6	23.1	129	98.5
M398612		2.9	211	1.8	24.7	135	104.0
M398613		2.7	204	1.6	24.4	130	104.5
M398614		2.7	199	1.7	23.1	128	101.0
K311561		7.6	151	1.2	29.7	242	52.7
K311562		8.9	212	1.6	26.2	183	63.3
K311563		5.9	121	0.7	19.4	74	54.9
K311564		0.5	3	0.1	0.8	15	0.5
K311565		5.8	74	1.0	16.9	76	36.0
K311566		6.0	72	1.0	16.3	86	38.5
K311567		7.8	807	1.7	16.9	810	63.9
K311568		5.8	95	68.4	15.4	70	52.5
K311569		14.8	688	2.3	30.0	767	73.4
K311570		11.9	671	3.2	40.7	660	77.6
K311571		11.0	712	2.1	31.8	744	68.9
K311572		12.6	752	2.3	32.9	684	107.0
K311573		16.2	973	1.9	32.6	1240	99.8
K311574		43.3	1870	1.5	15.8	1130	121.5
K311575		24.1	1790	0.9	52.0	2140	59.9
K311576		26.0	1840	1.0	54.5	2170	60.7
K311577		10.4	1570	0.8	12.4	2340	70.5
K311578		12.5	790	1.3	40.8	1030	94.5
K311579		12.7	704	1.3	40.4	702	78.4
K311580		0.6	3	0.1	0.8	15	<0.5
K311581		10.5	670	0.9	27.2	616	67.0
K311582		23.6	911	1.1	33.8	1200	105.0
K311583		19.4	1940	0.8	36.6	2980	63.2
K311584		5.8	1960	0.5	5.7	2630	36.6
K311585		15.6	1620	0.7	14.1	1540	63.0
K311586		3.3	112	217	16.4	79	31.7
K311587		11.8	464	1.0	38.5	1120	58.2
K311588		13.2	598	0.5	53.0	513	66.4
K311589		10.0	536	0.6	19.9	404	49.5
K311590		10.2	577	0.8	30.9	512	58.2



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS VA12210454**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**CERTIFICATE VA1222077**

Project: Rackla Gold(Area C)  
 P.O. No.: 12- 372  
 This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 20- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%< 75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222077**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K311607		4.04	0.01	2.70	5.88	422	1270	2.63	0.28	0.26	2.07	75.4	8.5	90	36.7	68.1
K311608		4.02	0.01	3.53	6.02	720	1240	2.43	0.28	0.16	3.84	71.6	5.2	90	33.1	72.4
K311609		7.54	0.01	2.55	6.18	866	1340	2.60	0.27	0.16	5.41	72.8	5.3	92	38.1	59.2
K311610		0.28	4.21	0.68	2.73	454	770	0.71	0.47	10.30	0.56	47.5	4.6	42	2.39	33.7
K311611		11.68	0.01	2.88	6.11	678	1200	3.08	0.28	0.16	3.71	67.7	5.8	92	29.1	73.0
K311612		12.68	0.01	5.07	6.10	729	1130	3.35	0.26	0.16	3.96	72.5	5.8	91	27.4	92.3
K311613		11.00	<0.01	3.26	6.29	325	1420	2.02	0.27	0.13	1.45	80.3	5.6	90	26.3	28.0
K311614		10.60	0.01	4.71	6.09	486	1200	2.38	0.27	0.14	2.02	71.6	6.9	91	31.5	35.9
K311615		10.50	0.02	6.90	6.19	1185	970	3.48	0.29	0.19	4.24	72.0	8.0	94	26.5	81.1
K311616		5.50	0.03	1.93	6.36	1085	1070	3.27	0.28	0.17	2.87	75.0	14.1	91	26.4	70.5
K311617		11.56	0.01	1.15	5.98	783	1090	2.48	0.26	0.15	1.90	74.1	10.1	91	25.9	59.9
K311618		6.98	<0.01	0.08	0.06	6	40	0.07	0.01	21.8	0.07	1.23	0.6	<1	0.19	1.9
K311619		4.18	0.01	2.40	6.35	913	980	3.86	0.28	0.18	2.51	72.0	15.2	97	27.0	94.2
K311620		4.70	0.01	3.67	6.00	2460	1030	3.66	0.28	0.23	7.28	73.7	32.3	91	26.2	87.3
K311621		4.88	0.01	2.43	6.40	1090	1010	2.98	0.29	0.15	2.62	77.0	8.1	92	27.0	56.2
K311622		4.54	0.01	2.46	6.30	1280	990	3.63	0.28	0.20	2.55	73.5	9.9	90	23.5	96.9
K311623		<0.02	0.01	2.54	6.01	1225	960	3.73	0.25	0.19	2.60	75.7	9.9	84	23.4	94.4
K311624		6.30	0.01	2.49	6.09	1730	970	3.36	0.28	0.19	3.03	72.4	9.2	94	23.2	89.9
K311625		5.62	0.02	3.06	6.34	2080	930	4.17	0.28	0.48	2.73	77.5	10.5	89	22.2	112.5
K311626		3.38	0.04	2.85	1.70	511	560	1.29	0.07	31.5	2.46	21.4	2.7	20	6.74	34.6
K311627		5.88	0.03	0.96	0.13	85	140	0.37	<0.01	39.1	1.30	2.19	0.6	<1	0.39	5.1
K311628		6.16	0.03	0.79	0.05	80	60	0.33	<0.01	39.7	1.08	1.78	0.4	<1	0.10	7.4
K311629		6.54	0.02	0.76	0.23	76	970	0.72	<0.01	36.4	2.08	2.74	0.9	<1	0.62	5.9
K311630		0.28	0.28	0.75	1.87	466	320	0.40	0.23	1.10	0.41	40.4	3.6	80	2.04	40.3
K311631		6.36	0.17	1.92	0.15	642	6160	0.69	<0.01	36.2	3.31	3.28	3.0	3	1.26	14.6
K311632		5.60	0.01	0.54	0.16	140	5290	0.57	<0.01	36.4	1.91	3.08	0.7	<1	0.72	2.1
K311633		5.86	0.01	2.30	0.43	149	6970	0.77	<0.01	36.7	4.72	4.73	1.6	1	2.81	6.0
K311634		5.90	0.01	3.46	0.26	55	250	0.29	<0.01	38.7	4.12	2.84	1.1	<1	1.13	5.4
K311635		5.48	<0.01	0.76	0.17	43	120	0.23	<0.01	37.7	2.43	2.15	0.5	<1	0.57	3.7
K311636		6.96	<0.01	0.10	0.08	<5	60	0.06	0.01	21.4	0.12	1.72	0.5	<1	0.13	1.5
K311637		4.60	<0.01	0.76	0.44	72	420	0.33	0.01	36.1	5.44	5.78	2.3	<1	2.13	3.5
K311638		5.40	<0.01	0.37	0.22	44	150	0.26	0.01	37.5	2.71	2.28	0.8	<1	0.76	2.4
K311639		5.70	<0.01	0.27	0.15	44	160	0.22	<0.01	37.3	2.29	1.88	0.6	<1	0.58	2.3
K311640		10.26	<0.01	0.40	0.22	39	210	0.21	<0.01	36.4	2.15	2.82	0.8	<1	0.81	2.6
K311641		4.96	<0.01	0.36	0.21	38	200	0.24	<0.01	34.7	1.83	2.78	0.7	<1	0.81	2.6
K311642		5.58	0.01	1.98	6.07	1530	1020	3.42	0.27	0.70	1.87	73.3	7.3	91	23.7	94.8



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Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222077**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K311607		3.35	17.20	0.23	3.4	0.82	0.052	2.76	37.9	11.4	0.43	125	4.83	0.04	17.1	49.2
K311608		2.60	16.60	0.20	3.2	1.45	0.051	2.88	58.2	12.8	0.41	76	3.89	0.04	16.5	31.6
K311609		2.50	17.50	0.22	3.6	1.14	0.053	2.84	37.8	16.7	0.41	75	3.44	0.04	17.5	32.3
K311610		1.80	6.26	0.17	1.5	5.00	0.030	0.83	23.1	53.9	5.06	359	9.10	0.02	5.2	31.8
K311611		3.15	16.45	0.23	3.2	0.85	0.050	2.83	34.5	10.7	0.44	93	4.13	0.04	16.4	42.0
K311612		2.90	16.70	0.24	3.2	0.98	0.045	2.86	36.2	10.3	0.42	91	6.05	0.03	15.7	42.2
K311613		2.71	17.65	0.23	3.3	1.38	0.043	3.04	41.0	12.5	0.45	75	3.49	0.04	17.5	28.6
K311614		2.63	17.00	0.21	3.1	1.35	0.050	2.90	36.2	13.6	0.42	102	3.21	0.04	15.9	33.0
K311615		2.49	17.00	0.20	3.1	1.98	0.047	2.81	36.8	15.3	0.39	118	4.45	0.03	15.6	46.9
K311616		3.21	17.60	0.24	3.3	1.02	0.054	2.87	38.4	14.7	0.42	190	5.15	0.03	17.7	60.8
K311617		3.26	16.95	0.22	3.4	1.36	0.058	2.86	38.8	12.5	0.42	200	3.92	0.03	16.8	39.0
K311618		0.48	0.22	0.14	<0.1	<0.01	<0.005	0.03	0.6	1.0	12.85	219	0.09	<0.01	0.2	2.1
K311619		4.23	17.50	0.21	3.5	1.99	0.053	2.99	38.8	12.7	0.45	499	6.26	0.03	17.5	66.2
K311620		5.21	16.35	0.22	3.1	2.27	0.052	2.73	38.9	12.8	0.42	1000	7.20	0.03	16.6	79.6
K311621		3.32	18.20	0.22	3.6	1.71	0.057	2.94	40.4	14.3	0.42	216	4.40	0.03	18.2	48.4
K311622		3.48	16.70	0.24	3.4	1.25	0.054	2.85	36.5	12.1	0.42	196	4.88	0.03	17.7	66.2
K311623		3.33	16.25	0.24	3.4	1.29	0.055	2.71	37.0	12.6	0.40	188	4.84	0.03	18.0	65.4
K311624		4.65	16.65	0.25	3.2	1.18	0.057	2.82	36.9	11.9	0.41	180	5.36	0.03	16.5	69.3
K311625		4.24	16.35	0.22	3.1	2.09	0.044	2.74	37.4	12.9	0.39	220	4.45	0.04	16.7	67.1
K311626		1.12	4.53	0.17	0.9	1.10	0.017	0.70	13.0	6.1	0.18	537	1.68	0.01	4.4	22.6
K311627		0.13	0.27	0.13	0.1	0.44	<0.005	0.03	2.5	1.0	0.11	676	0.15	0.01	0.2	6.3
K311628		0.13	0.13	0.14	<0.1	0.9	<0.005	0.01	2.6	0.6	0.11	937	0.12	<0.01	<0.1	4.5
K311629		0.10	0.28	0.14	<0.1	0.65	<0.005	0.03	3.1	1.1	0.11	722	0.16	<0.01	0.1	9.4
K311630		3.86	5.43	0.13	3.8	4.30	0.037	0.43	18.9	25.9	0.06	77	14.85	0.11	7.3	16.6
K311631		0.73	0.39	0.12	0.1	1.58	0.006	0.03	4.0	1.3	0.10	931	1.92	<0.01	0.2	20.0
K311632		0.17	0.50	0.14	0.1	0.49	<0.005	0.06	2.6	0.7	0.39	442	0.43	<0.01	0.3	4.9
K311633		0.30	1.13	0.13	0.2	0.64	<0.005	0.18	3.1	1.8	0.42	496	0.36	<0.01	0.6	12.2
K311634		0.15	0.57	0.14	0.1	0.2	<0.005	0.10	1.7	1.4	0.17	119	0.12	0.01	0.3	7.0
K311635		0.11	0.45	0.19	0.1	0.1	<0.005	0.07	1.4	0.8	0.21	104	0.16	<0.01	0.2	3.4
K311636		0.46	0.23	0.21	<0.1	0.02	<0.005	0.03	0.8	1.0	12.00	230	0.10	<0.01	0.2	1.8
K311637		0.25	1.13	0.19	0.2	0.25	<0.005	0.18	3.6	2.5	0.18	159	0.16	0.01	0.6	15.7
K311638		0.11	0.57	0.19	0.1	0.17	<0.005	0.08	1.2	1.3	0.16	57	0.12	0.01	0.3	5.9
K311639		0.09	0.43	0.22	0.1	0.17	<0.005	0.06	1.1	1.0	0.30	69	0.14	<0.01	0.2	3.7
K311640		0.09	0.59	0.17	0.1	0.49	<0.005	0.09	1.9	1.3	0.78	84	0.11	0.01	0.3	4.6
K311641		0.09	0.57	0.19	0.1	0.29	<0.005	0.09	1.9	1.5	0.77	71	0.13	0.01	0.3	4.3
K311642		3.54	17.05	0.31	3.2	0.77	0.056	2.79	37.0	13.0	0.42	151	5.31	0.03	17.5	58.3

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 Account: RCM

Project: Rackla Gold(Area C)  
**CERTIFICATE OF ANALYSIS VA1222077**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K311607		840	33.8	150.5	0.004	0.26	6.24	11.6	3	1.8	153.0	0.99	0.11	11.2	0.366	2.55
K311608		690	35.3	136.5	0.004	0.28	4.84	13.0	2	1.8	194.0	1.04	0.07	11.6	0.378	2.43
K311609		680	26.9	142.0	0.005	0.23	4.39	11.0	2	1.9	168.0	1.08	0.13	11.8	0.384	2.93
K311610		530	9.8	47.2	0.013	1.40	95.1	4.5	2	2.4	60.8	0.34	0.22	6.7	0.153	2.41
K311611		740	38.4	135.5	0.007	0.35	7.12	12.0	3	1.9	124.0	1.00	0.11	11.3	0.369	2.16
K311612		650	45.7	138.0	0.006	0.13	7.95	12.0	3	1.7	130.0	0.99	0.09	11.2	0.369	2.01
K311613		730	26.7	151.5	0.003	0.35	5.22	11.8	2	2.0	221	1.07	0.09	11.9	0.390	3.10
K311614		630	30.9	141.0	0.002	0.21	6.31	9.8	2	1.8	158.5	0.98	0.08	11.2	0.378	2.85
K311615		750	42.1	132.0	0.008	0.04	7.20	12.7	3	1.9	118.5	0.98	0.12	11.9	0.363	1.66
K311616		720	36.8	137.0	0.002	0.07	7.36	12.3	2	2.1	155.0	1.10	0.08	11.7	0.390	1.80
K311617		720	29.1	139.0	0.002	0.21	6.17	11.4	3	1.8	150.0	1.02	0.09	11.8	0.378	2.29
K311618		180	1.7	1.3	<0.002	0.01	0.09	0.2	<1	<0.2	48.3	<0.05	<0.05	0.2	<0.005	0.04
K311619		700	41.6	142.5	<0.002	0.16	8.21	12.6	2	1.9	140.0	1.09	0.11	12.2	0.390	2.22
K311620		880	55.8	134.0	<0.002	0.14	13.00	12.0	3	1.8	137.0	1.00	0.09	10.9	0.362	3.88
K311621		660	32.3	147.0	<0.002	0.15	9.26	11.7	1	1.9	129.0	1.13	0.11	12.5	0.390	2.47
K311622		880	48.0	133.5	<0.002	0.09	9.74	11.6	3	1.8	122.0	1.13	0.08	12.0	0.389	1.94
K311623		840	46.9	134.5	0.002	0.09	9.81	11.8	2	1.9	124.5	1.10	0.13	11.3	0.371	1.92
K311624		700	36.9	130.0	<0.002	0.06	9.67	11.7	2	1.8	88.2	0.99	0.07	12.4	0.377	1.65
K311625		800	59.5	126.5	<0.002	0.02	8.34	10.8	6	1.8	175.0	1.06	0.08	12.3	0.371	1.56
K311626		1540	29.8	31.5	<0.002	0.02	2.78	3.9	1	0.7	208	0.26	0.05	3.1	0.098	0.42
K311627		440	7.8	1.5	0.002	<0.01	0.24	0.9	<1	<0.2	151.0	<0.05	<0.05	0.2	<0.005	0.14
K311628		1530	7.4	0.3	<0.002	<0.01	0.31	0.5	<1	<0.2	153.5	<0.05	<0.05	<0.2	<0.005	0.07
K311629		1850	7.7	1.4	<0.002	0.02	0.37	1.3	1	<0.2	133.0	<0.05	<0.05	<0.2	<0.005	0.11
K311630		280	17.9	16.2	0.003	0.84	56.1	4.8	2	2.4	231	0.44	0.12	4.7	0.309	12.35
K311631		310	38.2	1.5	0.002	0.15	3.31	1.4	<1	<0.2	200	<0.05	<0.05	0.2	0.006	0.41
K311632		160	6.0	2.7	0.002	0.13	0.61	1.4	<1	<0.2	41.4	<0.05	<0.05	0.3	0.009	0.21
K311633		260	14.2	8.1	<0.002	0.17	0.84	2.5	<1	0.2	54.4	<0.05	<0.05	0.8	0.022	0.30
K311634		110	18.7	4.5	<0.002	<0.01	0.19	1.5	<1	<0.2	116.5	<0.05	<0.05	0.4	0.011	0.11
K311635		70	13.7	3.0	<0.002	<0.01	0.31	0.8	<1	<0.2	116.5	<0.05	<0.05	0.3	0.008	0.07
K311636		240	1.5	1.2	<0.002	<0.01	0.07	0.2	<1	<0.2	47.3	<0.05	<0.05	0.2	<0.005	0.02
K311637		140	23.0	8.5	<0.002	<0.01	0.17	1.5	<1	0.2	110.5	<0.05	<0.05	0.8	0.021	0.21
K311638		60	13.1	3.7	<0.002	<0.01	0.23	0.8	<1	<0.2	94.3	<0.05	<0.05	0.4	0.010	0.07
K311639		90	11.6	2.8	<0.002	<0.01	0.22	0.8	1	<0.2	111.0	<0.05	<0.05	0.3	0.007	0.06
K311640		100	19.6	4.1	<0.002	<0.01	0.28	0.7	<1	<0.2	105.5	<0.05	<0.05	0.4	0.010	0.12
K311641		90	12.1	4.1	<0.002	<0.01	0.24	0.6	<1	<0.2	104.5	<0.05	<0.05	0.4	0.011	0.13
K311642		670	44.4	134.5	0.002	0.04	7.44	10.6	2	1.8	106.5	1.05	0.10	11.7	0.382	1.77

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222077**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
K311607		3.7	341	5.3	23.9	294	107.0
K311608		3.9	344	6.2	25.4	177	108.0
K311609		3.8	364	6.5	26.2	181	105.5
K311610		5.3	93	67.4	14.1	69	48.6
K311611		3.9	344	4.1	23.7	285	109.5
K311612		3.7	329	5.9	29.8	317	106.0
K311613		3.5	321	3.9	19.6	192	112.0
K311614		3.5	324	6.4	16.7	230	103.0
K311615		4.3	345	10.4	24.2	282	104.0
K311616		4.0	376	7.8	25.4	412	114.5
K311617		3.5	358	5.2	19.6	277	105.5
K311618		1.0	3	0.1	0.8	16	0.7
K311619		4.1	394	6.7	30.2	444	111.5
K311620		4.5	380	10.6	26.4	541	109.5
K311621		3.8	366	8.6	21.8	354	113.0
K311622		4.1	379	6.6	31.2	461	111.5
K311623		3.9	357	6.3	30.2	439	111.0
K311624		3.4	370	8.2	22.6	504	111.0
K311625		3.8	370	11.4	34.2	383	109.0
K311626		13.7	98	9.0	25.5	136	29.9
K311627		7.6	15	0.4	10.1	33	1.8
K311628		14.0	24	0.5	9.8	22	0.8
K311629		16.0	25	0.7	13.5	46	2.3
K311630		5.8	51	35.5	9.3	29	114.5
K311631		7.2	51	1.7	11.6	99	3.3
K311632		4.9	15	0.6	8.3	25	3.6
K311633		4.5	22	0.8	8.9	81	7.2
K311634		0.9	8	0.4	4.6	58	3.3
K311635		1.2	9	0.3	4.0	32	2.7
K311636		1.0	3	0.1	1.1	15	0.7
K311637		1.3	13	0.4	8.0	99	7.5
K311638		0.9	7	0.2	2.5	40	3.0
K311639		1.0	7	0.2	2.7	36	2.4
K311640		0.9	6	0.3	3.9	49	3.0
K311641		0.7	6	0.3	3.4	45	2.9
K311642		3.6	368	7.2	26.4	354	113.5



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Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222077**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE VA1222078**

Project: Rackla Gold(Area C)  
 P.O. No.: 12- 367  
 This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 20- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

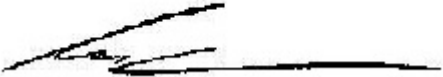
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222078**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398171		3.48	0.02	2.19	5.90	673	1550	2.99	0.28	0.14	2.72	64.4	6.1	87	24.0	90.0
M398172		4.14	0.01	3.96	6.39	480	1040	3.42	0.28	0.14	1.54	67.4	7.7	91	25.6	114.5
M398173		6.98	<0.01	0.03	0.05	<5	20	0.07	0.02	19.45	0.05	1.15	0.6	<1	0.13	1.8
M398174		4.90	0.01	3.65	6.21	574	1360	3.05	0.27	0.16	1.40	64.5	6.2	90	23.9	80.3
M398175		4.44	0.01	2.71	5.92	1090	1560	2.21	0.28	0.16	2.52	63.9	6.0	88	20.8	59.4
M398176		4.54	0.05	6.48	6.17	1900	1770	3.92	0.25	0.53	2.64	66.2	6.4	91	22.3	111.0
M398177		3.60	0.08	5.35	5.81	1780	4470	4.21	0.23	9.17	3.19	61.2	11.2	74	23.7	100.5
M398178		0.28	16.20	1.49	1.87	1140	440	0.38	0.91	14.35	0.75	30.6	3.9	33	2.32	66.5
M398179		2.10	0.02	1.23	0.22	84	160	0.40	0.01	33.5	2.24	3.79	0.9	<1	0.99	8.1
M398180		5.82	<0.01	0.85	0.21	24	160	0.21	0.02	33.8	3.10	2.93	0.4	<1	0.78	4.6
M398181		5.66	<0.01	0.50	0.13	50	140	0.17	0.01	35.5	1.38	1.73	0.4	<1	0.52	5.0
M398182		5.24	0.01	0.63	0.13	36	190	0.19	0.01	37.6	2.03	1.95	0.6	<1	0.68	4.1
M398183		5.60	0.01	0.14	0.14	31	520	0.14	0.01	36.0	0.26	2.99	0.5	<1	0.39	2.2
M398184		5.86	<0.01	0.11	0.12	35	1010	0.10	0.01	36.9	0.28	2.04	0.4	<1	0.37	2.1
M398185		6.98	<0.01	0.02	0.04	<5	20	0.05	0.03	20.0	0.06	0.92	0.6	<1	0.10	2.6
M398186		5.58	0.01	3.04	0.51	48	260	0.40	0.02	34.2	6.16	7.12	0.6	<1	2.11	6.5
M398187		5.92	<0.01	0.20	0.14	31	80	0.16	0.01	35.0	0.60	1.75	0.5	<1	0.41	2.5
M398188		0.28	4.24	0.80	2.63	431	770	0.64	0.48	9.23	0.57	39.2	5.1	39	2.34	33.8
M398189		6.16	<0.01	0.45	0.45	156	160	0.34	0.02	32.2	2.27	5.25	1.2	<1	1.38	5.1
M398190		4.94	0.02	2.51	2.24	368	980	1.09	0.09	26.1	3.67	22.9	2.3	24	8.76	25.1
M398191		4.56	0.01	0.50	0.29	50	100	0.18	0.02	34.1	1.89	3.56	0.8	<1	1.08	3.9
M398192		2.28	0.01	0.66	0.23	26	120	0.18	0.02	32.3	2.04	3.01	0.6	<1	0.66	3.2
M398193		5.30	<0.01	0.49	0.21	35	260	0.20	0.01	34.4	2.07	2.92	0.6	<1	0.73	3.3
M398194		4.96	<0.01	0.22	0.05	13	60	0.11	0.01	36.1	0.36	1.54	0.4	<1	0.14	1.9
M398195		6.28	<0.01	0.09	0.17	26	80	0.12	0.01	36.5	0.55	3.50	0.4	<1	0.48	2.6
M398196		5.74	<0.01	0.05	0.14	29	90	0.09	0.01	35.7	0.25	3.74	0.4	<1	0.29	1.7
M398197		4.90	<0.01	0.14	1.71	319	220	0.48	0.07	30.8	0.95	16.20	1.4	9	7.40	4.9
M398198		5.54	0.01	0.03	0.23	29	100	0.14	0.01	32.4	0.14	3.52	0.7	<1	0.51	2.1
M398199		5.08	<0.01	0.06	0.12	32	80	0.08	0.01	35.7	0.20	1.88	0.5	<1	0.25	1.7
M398200		6.46	0.01	0.10	0.18	38	100	0.14	0.01	34.6	0.35	2.38	0.5	<1	0.60	2.2
K311601		6.16	<0.01	0.09	0.38	35	240	0.18	0.02	34.9	1.51	5.35	0.7	<1	1.89	3.1
K311602		<0.02	<0.01	0.08	0.36	31	240	0.20	0.02	36.2	1.44	5.07	0.5	<1	1.79	2.8
K311603		5.22	<0.01	0.14	0.87	225	160	0.48	0.06	31.0	1.80	10.40	1.2	5	3.53	11.2
K311604		11.42	<0.01	0.03	0.18	18	100	0.11	0.02	35.0	0.18	2.52	0.7	<1	0.46	1.9
K311605		11.06	<0.01	0.02	0.13	21	70	0.09	0.01	36.2	0.20	2.81	0.5	<1	0.46	1.6
K311606		11.12	<0.01	0.04	0.28	85	90	0.24	0.02	34.2	0.18	3.38	0.6	<1	0.91	2.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222078**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398171		3.46	16.60	0.11	2.7	0.91	0.061	2.60	33.4	11.4	0.38	93	4.66	0.03	16.3	44.5
M398172		2.90	17.90	0.15	3.1	1.91	0.053	2.66	36.0	11.5	0.36	128	5.71	0.03	18.0	55.0
M398173		0.43	0.19	<0.05	<0.1	<0.1	0.007	0.02	0.6	1.0	11.60	191	0.19	<0.01	0.2	1.5
M398174		2.50	17.80	0.11	3.0	1.88	0.045	2.72	34.9	11.0	0.39	98	4.21	0.03	18.0	40.1
M398175		2.95	17.25	0.14	2.8	1.27	0.048	2.62	36.1	10.4	0.40	146	3.74	0.03	15.4	34.6
M398176		3.14	17.50	0.14	2.6	2.14	0.065	2.53	43.2	16.8	0.36	132	5.24	0.03	15.6	66.2
M398177		3.07	15.60	0.16	2.2	3.32	0.054	2.10	43.2	28.7	0.41	296	3.27	0.02	11.7	125.0
M398178		3.35	4.21	0.08	0.8	6.51	0.070	0.38	17.9	39.7	0.68	437	12.45	0.01	3.3	21.8
M398179		0.22	0.67	<0.05	0.1	0.42	0.012	0.09	2.6	1.2	0.43	362	0.45	<0.01	0.4	5.6
M398180		0.05	0.59	<0.05	0.1	0.2	0.009	0.10	2.0	1.0	0.16	85	0.17	<0.01	0.3	1.1
M398181		0.08	0.37	<0.05	0.1	<0.1	0.010	0.06	1.2	0.7	0.16	63	0.18	<0.01	0.2	1.5
M398182		0.07	0.39	0.05	0.1	0.1	0.010	0.05	1.3	0.8	0.14	80	0.17	<0.01	0.2	1.8
M398183		0.06	0.36	<0.05	<0.1	0.1	0.009	0.06	3.1	0.8	0.32	46	0.14	<0.01	0.2	1.5
M398184		0.06	0.33	<0.05	<0.1	0.1	0.007	0.06	2.0	0.7	0.18	46	0.16	<0.01	0.2	1.4
M398185		0.43	0.19	<0.05	<0.1	<0.1	0.008	0.02	<0.5	0.9	12.00	198	1.37	<0.01	0.1	1.5
M398186		0.11	1.47	0.06	0.2	0.6	0.009	0.22	4.7	2.3	0.46	341	0.28	<0.01	0.8	3.1
M398187		0.08	0.42	0.06	0.1	0.1	0.008	0.06	1.0	0.9	0.44	45	0.14	<0.01	0.2	2.0
M398188		1.67	6.42	0.07	1.4	5.34	0.037	0.80	22.3	51.7	4.70	329	9.55	0.01	5.2	30.4
M398189		0.32	1.21	<0.05	0.2	0.3	0.015	0.20	3.0	2.2	2.39	166	0.44	0.01	0.7	6.9
M398190		0.90	6.46	0.06	1.0	0.7	0.026	0.98	14.0	8.0	0.40	170	1.37	0.01	5.2	19.8
M398191		0.13	0.80	<0.05	0.1	0.2	0.008	0.12	2.6	1.7	1.83	93	0.17	0.01	0.4	4.5
M398192		0.09	0.62	<0.05	0.1	0.2	0.009	0.10	2.3	1.1	1.77	100	0.17	0.01	0.4	2.9
M398193		0.09	0.58	<0.05	0.1	0.2	0.006	0.09	2.5	1.2	1.18	88	0.17	0.01	0.3	2.9
M398194		0.03	0.19	<0.05	<0.1	0.1	0.013	0.02	2.0	0.5	0.40	32	0.10	<0.01	0.1	1.1
M398195		0.08	0.48	<0.05	0.1	0.1	0.010	0.08	4.6	0.9	0.17	34	0.12	<0.01	0.3	2.1
M398196		0.07	0.40	<0.05	0.1	0.09	0.006	0.07	4.4	0.8	0.62	25	0.15	<0.01	0.3	1.3
M398197		0.67	4.50	0.07	0.5	0.4	0.023	0.81	11.7	6.1	1.27	82	1.07	0.01	2.7	11.7
M398198		0.11	0.64	<0.05	0.1	0.1	0.010	0.11	2.9	1.2	3.57	29	0.16	0.01	0.4	2.4
M398199		0.07	0.34	0.05	<0.1	0.1	0.009	0.06	1.4	0.7	0.95	33	0.13	<0.01	0.2	1.4
M398200		0.09	0.48	<0.05	0.1	0.2	0.007	0.08	1.7	1.2	0.57	34	0.20	<0.01	0.3	2.6
K311601		0.10	0.90	0.05	0.1	0.1	0.013	0.16	4.5	2.2	0.47	45	0.17	0.01	0.5	3.6
K311602		0.10	0.94	0.06	0.1	0.09	<0.005	0.15	4.3	2.1	0.48	45	0.12	0.01	0.5	3.3
K311603		0.49	2.30	<0.05	0.3	0.17	0.006	0.43	5.6	3.5	0.99	92	0.59	0.01	1.2	9.5
K311604		0.10	0.47	<0.05	0.1	0.06	0.008	0.09	1.8	1.0	1.11	29	0.10	<0.01	0.3	2.1
K311605		0.06	0.38	0.06	<0.1	0.04	0.007	0.06	2.9	0.7	0.73	25	0.14	<0.01	0.2	1.4
K311606		0.14	0.75	0.05	0.1	<0.1	0.007	0.13	2.3	1.1	0.68	24	0.30	<0.01	0.4	2.4



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 Account: RCM

Project: Rackla Gold(Area C)  
**CERTIFICATE OF ANALYSIS VA1222078**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398171		990	49.4	125.0	<0.002	0.11	7.51	12.0	3	1.9	194.0	1.12	0.06	9.9	0.358	1.72
M398172		800	69.6	128.0	0.002	0.04	8.96	13.8	2	2.0	132.5	1.15	0.07	10.5	0.359	1.75
M398173		190	1.3	1.0	<0.002	<0.01	0.08	0.2	<1	<0.2	40.4	<0.05	<0.05	<0.2	<0.005	<0.02
M398174		790	34.1	134.5	<0.002	0.08	7.82	11.6	2	2.0	133.5	1.20	<0.05	10.3	0.373	1.59
M398175		810	37.2	126.0	<0.002	0.12	7.04	9.6	2	2.0	138.0	1.11	0.07	9.7	0.360	1.81
M398176		2490	142.0	123.0	<0.002	0.12	13.95	11.9	2	1.9	430	1.07	0.14	9.3	0.342	1.97
M398177		3110	173.0	109.0	<0.002	0.13	7.99	11.3	2	1.8	419	0.74	0.09	8.3	0.280	1.88
M398178		660	20.9	24.8	0.004	1.85	157.5	4.0	2	2.0	49.0	0.23	0.69	3.3	0.108	3.52
M398179		170	7.8	3.7	0.002	0.01	1.00	1.8	1	<0.2	117.0	<0.05	<0.05	0.4	0.010	0.17
M398180		60	7.7	3.9	<0.002	0.01	0.32	1.5	<1	<0.2	190.0	<0.05	<0.05	0.3	0.010	0.07
M398181		50	5.9	2.5	0.002	0.01	0.69	1.0	<1	<0.2	153.0	<0.05	<0.05	0.2	0.006	0.04
M398182		50	6.5	2.3	<0.002	0.01	0.52	1.3	<1	<0.2	168.5	<0.05	<0.05	0.2	0.006	0.06
M398183		80	1.6	2.6	<0.002	0.02	0.27	0.4	1	<0.2	109.0	<0.05	<0.05	0.2	0.007	0.04
M398184		60	1.4	2.3	<0.002	0.02	0.25	0.4	<1	<0.2	92.2	<0.05	<0.05	0.2	0.007	0.04
M398185		170	1.2	0.9	<0.002	<0.01	0.07	0.2	<1	<0.2	43.4	<0.05	<0.05	<0.2	<0.005	<0.02
M398186		160	20.3	9.2	<0.002	0.01	0.47	2.9	<1	0.3	236	0.06	<0.05	0.9	0.024	0.26
M398187		70	2.2	2.9	<0.002	0.01	0.27	0.4	<1	<0.2	98.9	<0.05	<0.05	0.2	0.007	0.05
M398188		520	9.7	44.9	0.009	1.35	92.5	4.5	2	2.5	57.4	0.37	0.17	5.7	0.143	2.57
M398189		210	10.5	8.4	<0.002	0.01	1.15	1.9	<1	0.2	124.0	<0.05	<0.05	0.7	0.022	0.22
M398190		550	30.5	45.6	<0.002	0.04	2.92	4.9	1	0.8	233	0.34	<0.05	3.3	0.125	0.65
M398191		130	7.7	5.4	<0.002	<0.01	0.36	1.0	<1	0.2	159.5	<0.05	<0.05	0.4	0.013	0.17
M398192		140	7.7	4.4	<0.002	<0.01	0.18	0.9	<1	<0.2	154.0	<0.05	<0.05	0.4	0.011	0.11
M398193		110	8.1	3.9	<0.002	0.01	0.21	1.0	<1	0.2	118.5	<0.05	<0.05	0.3	0.010	0.14
M398194		30	2.1	1.1	<0.002	<0.01	0.13	0.3	<1	<0.2	84.9	<0.05	<0.05	<0.2	<0.005	0.04
M398195		40	2.8	3.4	<0.002	<0.01	0.58	0.6	<1	<0.2	109.5	<0.05	<0.05	0.3	0.009	0.05
M398196		60	1.7	2.6	<0.002	0.01	0.17	0.5	<1	<0.2	150.5	<0.05	<0.05	0.3	0.007	0.08
M398197		310	5.2	36.4	<0.002	<0.01	1.45	3.3	1	0.7	129.0	0.18	<0.05	2.6	0.081	0.47
M398198		110	1.2	4.4	<0.002	0.01	0.22	0.6	1	<0.2	132.5	<0.05	<0.05	0.4	0.013	0.13
M398199		70	1.4	2.2	<0.002	0.01	0.24	0.3	<1	<0.2	145.0	<0.05	<0.05	0.2	0.006	0.06
M398200		60	3.0	3.4	<0.002	0.01	0.31	0.5	<1	<0.2	142.5	<0.05	<0.05	0.3	0.008	0.07
K311601		100	6.9	7.5	<0.002	0.01	0.22	1.2	<1	0.2	138.5	<0.05	<0.05	0.6	0.018	0.16
K311602		100	6.9	6.8	<0.002	<0.01	0.21	1.2	<1	0.2	141.0	<0.05	<0.05	0.6	0.017	0.16
K311603		250	5.8	18.3	<0.002	0.03	3.06	2.0	1	0.3	124.5	0.09	<0.05	1.4	0.041	0.29
K311604		100	1.4	3.6	<0.002	0.04	0.18	0.4	<1	<0.2	113.5	<0.05	<0.05	0.3	0.010	0.10
K311605		50	1.2	2.7	0.002	0.02	0.32	0.4	1	<0.2	184.0	<0.05	<0.05	0.2	0.006	0.10
K311606		90	1.2	5.8	<0.002	0.02	0.55	0.6	<1	<0.2	142.5	<0.05	<0.05	0.4	0.014	0.14

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA1222078**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M398171		4.0	334	5.5	35.2	376	100.0
M398172		4.4	363	9.9	32.5	374	111.0
M398173		0.4	4	0.1	0.8	14	<0.5
M398174		4.3	372	5.6	36.3	239	111.5
M398175		4.0	338	5.0	36.5	212	104.0
M398176		8.0	380	11.0	50.4	380	101.5
M398177		12.9	275	9.6	50.1	766	81.2
M398178		3.2	111	225	16.0	77	28.8
M398179		3.3	14	0.8	9.4	65	3.8
M398180		1.2	6	0.4	5.5	15	2.9
M398181		1.0	7	0.3	3.3	17	2.2
M398182		1.1	6	0.3	4.3	16	2.1
M398183		0.8	4	0.1	7.8	16	2.0
M398184		0.6	4	0.2	4.8	13	1.9
M398185		0.5	3	0.1	0.7	15	0.5
M398186		3.0	13	0.9	14.4	31	8.6
M398187		0.4	4	0.2	1.7	18	2.4
M398188		5.3	89	73.5	14.3	67	48.2
M398189		1.1	17	0.7	6.3	90	7.2
M398190		2.8	96	5.5	18.0	147	35.9
M398191		0.7	9	0.4	6.4	54	4.0
M398192		0.8	5	0.4	6.3	39	4.1
M398193		0.7	6	0.3	7.1	44	3.5
M398194		0.2	2	0.1	6.3	11	1.9
M398195		0.2	5	0.4	12.4	20	2.5
M398196		0.3	4	0.3	14.1	14	3.3
M398197		0.9	27	2.6	23.7	130	17.5
M398198		0.4	4	0.3	6.6	15	3.1
M398199		0.3	4	0.2	2.7	13	1.7
M398200		0.3	5	0.3	3.2	24	2.4
K311601		0.7	10	0.3	9.4	34	4.9
K311602		0.7	9	0.3	9.2	32	4.7
K311603		0.9	34	0.8	7.4	140	10.4
K311604		0.5	4	0.1	3.2	15	2.6
K311605		0.3	4	0.2	8.5	15	1.8
K311606		0.4	6	0.3	4.2	28	3.4



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Project: Rackla Gold(Area C)

**CERTIFICATE OF ANALYSIS VA12222078**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12203894**

Project: Rackla Gold  
 P.O. No.: 12- 312  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE	JOAN CARNE	JULIA LANE
JOAN MARIACHER		

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12203894**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398401		3.47	<0.01	1.19	7.54	22.6	740	1.52	0.23	1.58	0.25	68.7	16.5	84	6.27	40.5
M398402		3.81	<0.01	1.98	6.83	18.4	600	1.36	0.21	3.51	0.24	65.4	16.5	70	5.69	43.1
M398403		5.48	<0.01	0.58	7.70	16.4	700	1.58	0.24	3.48	0.23	71.7	18.0	83	7.10	46.7
M398404		6.37	<0.01	0.89	8.28	13.6	650	2.07	0.25	0.31	0.16	53.4	21.1	95	7.25	43.5
M398405		3.32	<0.01	0.42	8.83	11.9	780	1.87	0.26	0.53	0.19	73.1	23.4	93	8.23	37.7
M398406		6.08	<0.01	0.19	9.61	18.8	550	2.17	0.28	0.76	0.09	71.2	20.6	101	10.20	31.6
M398407		6.41	<0.01	0.12	9.72	11.3	520	2.20	0.29	0.39	0.10	79.8	18.1	100	10.65	32.6
M398408		7.43	<0.01	0.13	9.19	12.9	480	2.07	0.27	0.68	0.12	76.9	17.8	94	9.50	31.3
M398409		7.85	<0.01	0.12	9.61	11.8	530	2.27	0.30	0.54	0.09	69.9	18.8	99	9.94	30.8
M398410		3.87	<0.01	0.13	9.80	12.3	540	2.09	0.28	0.59	0.08	73.9	18.6	104	10.55	34.2
M398411		8.86	<0.01	0.10	9.31	11.4	500	2.01	0.27	0.67	0.09	75.1	17.3	95	9.24	30.3
M398412		8.29	<0.01	0.12	9.32	14.0	530	2.27	0.28	0.50	0.10	71.7	19.1	100	11.45	33.1
M398413		9.47	<0.01	0.13	9.96	14.3	560	2.41	0.29	0.53	0.09	80.7	19.5	101	12.55	34.6
M398414		6.93	<0.01	0.01	0.08	<5	30	0.05	0.02	21.7	0.06	1.52	1.6	<1	0.12	2.1
M398415		8.74	<0.01	0.16	9.60	15.0	550	2.38	0.29	0.56	0.11	82.3	21.2	98	13.80	33.5
M398416		8.62	<0.01	0.13	9.61	9.8	560	2.42	0.29	0.86	0.09	81.0	18.0	98	13.10	29.0
M398417		8.69	<0.01	0.18	9.52	11.8	550	2.35	0.29	0.86	0.11	82.4	19.3	98	14.30	32.7
M398418		7.62	<0.01	0.18	9.41	12.1	620	2.38	0.28	0.76	0.10	80.2	18.2	99	16.40	35.0
M398419		0.26	0.27	0.75	1.96	484	290	0.33	0.23	1.06	0.38	35.7	3.7	80	1.96	40.0
M398420		7.62	<0.01	0.13	9.12	8.9	560	2.03	0.27	0.76	0.12	76.8	17.0	95	14.45	30.6
M398421		9.34	<0.01	0.11	9.52	13.5	620	2.35	0.27	0.62	0.10	80.3	18.5	98	17.80	30.0
M398422		8.11	<0.01	0.11	9.10	13.6	630	2.41	0.29	0.48	0.11	64.4	18.5	99	18.50	32.6
M398423		8.57	<0.01	0.21	9.82	12.1	650	2.47	0.30	0.45	0.13	79.6	18.8	104	24.0	35.5
M398424		6.54	<0.01	0.17	9.34	20.9	630	2.65	0.29	0.24	0.14	51.4	16.6	102	9.31	35.1
M398425		<0.02	<0.01	0.17	10.05	20.3	660	2.71	0.29	0.25	0.13	76.6	16.4	101	9.58	34.1
M398426		6.87	<0.01	0.12	9.86	13.8	580	2.56	0.29	0.22	0.12	72.7	17.7	99	9.01	32.2
M398427		4.12	<0.01	0.16	9.54	12.6	590	2.65	0.29	0.41	0.11	78.5	19.6	103	8.41	32.7
M398428		8.57	0.01	0.11	9.42	11.1	570	2.59	0.28	0.52	0.08	82.6	18.5	96	8.47	32.8
M398429		6.42	<0.01	0.14	9.70	8.1	560	2.64	0.29	0.53	0.13	80.1	17.8	100	8.10	30.4
M398430		6.92	0.01	<0.01	0.06	6	20	<0.05	0.02	21.3	0.06	1.27	1.5	<1	<0.05	2.0
M398431		7.43	<0.01	0.15	9.25	7.0	530	2.41	0.26	0.59	0.12	76.4	18.9	98	7.59	32.1
M398432		9.90	<0.01	0.29	9.63	6.3	560	2.73	0.28	0.64	0.11	76.0	17.8	97	8.18	29.9
M398433		9.58	<0.01	0.22	9.31	12.3	540	2.31	0.26	1.14	0.09	82.5	16.5	93	8.21	29.0
M398434		11.25	<0.01	0.14	9.38	11.1	560	2.55	0.27	1.07	0.11	79.0	16.5	96	8.56	29.7
M398435		10.57	<0.01	0.13	8.27	7.1	460	2.26	0.26	1.18	0.08	79.0	16.3	84	7.68	22.6
M398436		0.26	0.27	0.70	1.90	469	300	0.34	0.21	1.04	0.35	35.2	3.5	77	1.92	37.3



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12203894**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398401		4.80	17.65	0.18	2.9	0.10	0.066	1.96	34.7	54.9	1.16	547	1.32	0.51	10.6	50.3
M398402		4.43	17.05	0.20	2.6	0.07	0.063	1.75	32.9	49.1	1.30	579	1.07	0.50	9.7	47.7
M398403		4.69	19.35	0.20	2.8	0.07	0.067	2.11	35.7	57.6	1.51	534	1.03	0.47	11.0	53.5
M398404		4.96	20.6	0.20	2.6	0.05	0.073	2.26	25.9	69.9	1.12	238	1.10	0.49	11.0	72.6
M398405		4.91	21.5	0.22	2.8	0.03	0.082	2.30	36.4	65.6	1.34	434	0.91	0.46	10.7	64.3
M398406		5.07	25.3	0.24	2.9	0.02	0.082	2.60	34.2	83.0	1.42	775	0.97	0.40	12.3	67.2
M398407		4.90	23.8	0.23	2.9	0.02	0.082	2.59	38.5	74.2	1.36	577	0.75	0.43	12.9	61.4
M398408		4.95	22.5	0.22	2.8	0.02	0.078	2.41	37.9	74.3	1.35	563	1.06	0.39	11.5	59.8
M398409		4.97	24.1	0.23	2.8	0.02	0.078	2.57	33.3	83.6	1.39	551	0.84	0.39	12.1	63.1
M398410		5.09	24.6	0.23	2.9	0.02	0.082	2.64	35.2	82.4	1.43	569	0.86	0.40	12.4	63.1
M398411		5.01	21.9	0.22	2.6	0.02	0.073	2.48	36.7	72.0	1.40	633	0.96	0.36	11.5	58.6
M398412		4.97	24.0	0.24	3.0	0.02	0.081	2.65	34.1	72.4	1.33	513	0.91	0.41	12.3	63.9
M398413		5.18	25.1	0.24	2.8	0.02	0.088	2.72	38.9	80.7	1.40	531	0.92	0.41	12.9	65.4
M398414		0.48	0.28	0.06	<0.1	<0.01	<0.005	0.03	<0.5	1.2	13.55	204	0.35	0.01	0.4	4.4
M398415		5.03	26.2	0.24	2.8	0.02	0.088	2.61	39.9	93.6	1.39	583	0.82	0.41	13.0	67.2
M398416		4.88	24.8	0.23	2.7	0.02	0.080	2.69	39.9	81.3	1.45	672	0.65	0.41	12.5	60.6
M398417		4.88	24.5	0.23	2.9	0.02	0.089	2.53	40.4	100.5	1.36	485	0.88	0.43	12.9	61.1
M398418		5.06	24.4	0.23	2.9	0.04	0.083	2.76	38.6	77.4	1.36	495	1.16	0.44	12.5	61.8
M398419		3.94	5.54	0.14	3.5	4.02	0.030	0.42	17.6	25.7	0.06	74	15.25	0.12	7.5	17.9
M398420		4.98	22.5	0.22	2.8	0.03	0.080	2.45	37.3	81.6	1.46	568	0.61	0.37	11.7	57.8
M398421		5.00	24.4	0.23	2.8	0.03	0.085	2.64	38.7	79.6	1.37	485	0.91	0.43	12.6	61.7
M398422		5.05	24.9	0.22	2.9	0.03	0.088	2.70	29.9	93.2	1.32	458	1.03	0.40	12.6	63.2
M398423		5.11	26.3	0.24	3.0	0.02	0.086	2.79	37.4	90.8	1.43	530	0.80	0.44	13.7	64.1
M398424		4.95	24.7	0.22	2.8	0.03	0.085	2.70	21.5	83.3	0.99	367	2.33	0.45	12.4	57.0
M398425		5.08	24.5	0.23	2.8	0.03	0.090	2.72	36.9	86.6	1.05	366	2.39	0.46	12.7	55.5
M398426		5.02	24.8	0.23	3.0	0.01	0.086	2.56	33.4	88.9	1.20	398	0.78	0.47	12.6	61.0
M398427		4.94	25.2	0.24	2.9	0.01	0.086	2.64	37.5	88.7	1.32	566	0.83	0.46	13.1	64.1
M398428		4.74	24.4	0.22	2.9	0.01	0.087	2.57	40.1	84.3	1.31	610	0.67	0.46	12.7	61.2
M398429		4.98	24.2	0.25	2.9	0.01	0.085	2.63	38.6	88.5	1.39	631	0.58	0.46	12.7	60.5
M398430		0.48	0.25	0.05	<0.1	<0.01	<0.005	0.02	<0.5	1.1	13.30	198	0.13	0.01	0.3	3.8
M398431		4.92	24.3	0.23	2.9	<0.01	0.084	2.49	36.8	88.6	1.41	562	0.54	0.44	12.8	63.0
M398432		5.27	23.6	0.19	2.7	<0.01	0.092	2.58	36.6	89.5	1.41	784	0.50	0.45	12.5	60.0
M398433		5.23	23.2	0.21	2.6	0.02	0.079	2.50	40.7	87.2	1.48	598	1.30	0.43	11.7	56.5
M398434		4.93	23.3	0.21	2.6	0.02	0.075	2.60	38.5	84.7	1.46	648	0.76	0.47	12.4	56.1
M398435		4.61	20.5	0.20	2.5	0.01	0.087	2.02	39.0	82.5	1.40	753	1.29	0.44	11.2	50.0
M398436		3.84	5.46	0.14	3.3	3.82	0.029	0.41	17.7	28.2	0.06	72	14.55	0.11	7.3	16.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12203894**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398401		840	16.6	128.0	<0.002	0.05	0.78	16.1	2	2.2	108.0	0.79	0.07	10.6	0.439	0.69
M398402		970	14.8	117.0	0.002	0.10	0.68	15.2	2	2.2	138.5	0.73	0.07	9.6	0.396	0.61
M398403		810	16.6	124.5	0.002	0.77	0.77	16.9	2	2.5	146.0	0.82	0.08	10.9	0.457	0.75
M398404		720	17.6	119.0	<0.002	0.48	0.70	16.7	2	2.6	82.4	0.77	0.07	9.0	0.439	0.81
M398405		750	18.5	140.5	<0.002	1.03	0.69	17.6	2	2.7	80.1	0.86	0.07	11.3	0.446	0.93
M398406		810	19.2	152.5	<0.002	1.19	0.72	18.7	2	3.1	100.5	0.89	0.06	10.9	0.451	0.96
M398407		740	19.4	167.5	<0.002	0.77	0.73	18.4	2	3.0	98.9	0.93	0.07	12.1	0.455	0.94
M398408		750	19.1	151.0	<0.002	1.31	0.70	17.7	2	3.0	106.0	0.86	0.07	11.5	0.419	0.90
M398409		780	20.5	154.5	<0.002	0.95	0.70	18.4	2	3.0	120.0	0.86	0.07	12.0	0.449	0.97
M398410		810	19.3	155.5	<0.002	0.96	0.69	18.1	2	3.1	123.0	0.90	0.08	11.3	0.466	0.95
M398411		750	19.4	160.0	<0.002	0.95	0.67	17.1	2	2.7	117.0	0.82	0.07	11.8	0.428	0.88
M398412		750	21.4	152.0	<0.002	1.27	0.81	17.7	2	3.0	115.5	0.92	0.08	10.7	0.456	0.99
M398413		780	20.5	177.0	<0.002	1.40	0.72	19.7	2	3.3	133.5	0.86	0.09	11.8	0.457	1.00
M398414		200	1.2	1.7	<0.002	<0.01	<0.05	0.3	1	<0.2	50.2	<0.05	<0.05	<0.2	<0.005	<0.02
M398415		820	20.4	164.5	<0.002	1.32	0.67	19.7	2	3.3	132.5	0.91	0.07	12.5	0.451	0.99
M398416		950	15.6	157.0	<0.002	1.09	0.52	18.3	2	3.1	124.0	0.87	0.06	12.0	0.445	0.99
M398417		770	20.1	168.0	<0.002	1.33	0.75	18.8	2	3.3	121.5	0.90	0.07	11.8	0.446	0.94
M398418		860	19.8	169.0	<0.002	1.94	0.66	17.9	2	3.1	106.0	0.91	0.07	11.5	0.467	1.07
M398419		290	16.7	18.6	0.002	0.89	59.6	5.0	3	2.5	227	0.52	0.14	4.1	0.306	12.45
M398420		740	16.0	159.0	<0.002	0.90	0.57	16.9	2	2.8	97.5	0.83	0.07	11.2	0.434	0.84
M398421		730	19.7	168.5	<0.002	1.59	0.69	18.6	2	3.1	103.0	0.87	0.07	11.5	0.458	0.95
M398422		830	20.9	134.0	<0.002	1.74	0.66	17.6	2	3.1	103.0	0.91	0.08	9.7	0.455	1.06
M398423		820	20.3	157.5	<0.002	1.06	0.75	18.9	2	3.3	112.0	0.96	0.08	11.2	0.480	1.00
M398424		710	19.5	126.0	<0.002	0.04	0.75	18.6	2	3.1	88.6	0.89	0.07	9.1	0.453	1.07
M398425		700	20.0	179.5	0.002	0.04	0.75	20.1	2	3.1	95.4	0.87	0.06	12.0	0.451	1.10
M398426		740	18.7	158.0	<0.002	0.19	0.75	19.1	2	3.1	81.4	0.94	0.08	10.9	0.459	0.92
M398427		740	21.1	157.0	<0.002	0.46	1.00	19.3	2	3.3	81.7	0.91	0.07	11.4	0.470	0.86
M398428		720	20.7	144.5	<0.002	0.49	1.01	19.1	2	3.1	82.0	0.91	0.08	11.9	0.452	0.88
M398429		760	17.5	162.5	<0.002	0.29	0.76	18.9	2	3.1	85.0	0.89	0.07	12.2	0.471	0.89
M398430		200	1.2	1.1	<0.002	<0.01	<0.05	0.3	1	<0.2	47.8	<0.05	<0.05	<0.2	<0.005	<0.02
M398431		780	16.4	139.5	<0.002	0.24	0.78	18.1	2	3.0	92.1	0.89	0.07	11.4	0.467	0.78
M398432		890	18.8	155.5	<0.002	0.17	0.57	18.0	2	3.1	105.0	0.86	0.08	11.2	0.456	0.85
M398433		920	20.3	159.5	<0.002	1.26	0.91	17.6	2	2.9	115.5	0.84	0.06	11.4	0.434	0.92
M398434		870	19.9	164.5	<0.002	1.12	0.74	17.6	2	3.0	115.5	0.87	0.05	11.3	0.451	0.93
M398435		1010	15.5	142.0	<0.002	0.25	0.61	16.1	1	2.7	111.5	0.80	0.08	11.4	0.394	0.67
M398436		270	15.5	17.5	<0.002	0.86	58.4	5.0	3	2.4	222	0.50	0.13	3.8	0.303	11.25





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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	1	0.1	0.1	2	0.5
M398401		2.6	149	5.4	19.8	127	105.0
M398402		2.2	129	8.7	17.8	115	94.4
M398403		2.6	159	3.0	17.6	132	98.3
M398404		2.4	157	4.2	15.6	188	95.6
M398405		2.4	158	2.8	16.4	160	90.6
M398406		2.5	168	1.9	16.8	139	91.9
M398407		2.6	164	1.7	17.4	133	96.1
M398408		2.5	150	1.5	15.8	142	96.4
M398409		2.7	166	1.5	16.5	135	103.0
M398410		2.6	170	1.6	16.5	140	105.5
M398411		2.4	156	1.4	16.9	133	98.1
M398412		2.5	165	1.6	15.4	143	102.0
M398413		2.5	169	1.5	17.2	140	96.5
M398414		0.8	3	0.1	0.9	16	0.6
M398415		2.6	163	1.6	19.2	153	97.8
M398416		2.6	163	1.6	18.7	132	94.5
M398417		2.5	160	1.8	17.6	147	98.1
M398418		2.5	163	1.7	17.5	144	105.5
M398419		5.5	54	36.8	9.5	28	123.5
M398420		2.4	154	1.5	16.6	149	100.0
M398421		2.5	163	1.5	17.3	144	96.1
M398422		2.5	168	1.5	15.3	144	94.6
M398423		2.6	170	2.1	18.5	146	102.5
M398424		2.9	169	2.6	12.8	131	95.8
M398425		2.9	166	1.7	17.2	130	97.7
M398426		2.6	164	1.6	16.1	140	96.7
M398427		2.6	169	1.5	17.3	141	100.0
M398428		2.6	161	1.5	17.3	124	96.5
M398429		2.6	167	1.6	17.8	144	107.5
M398430		0.6	2	0.1	0.9	14	0.5
M398431		2.6	159	1.5	17.5	139	99.5
M398432		2.5	163	2.1	17.7	143	106.0
M398433		2.3	153	1.9	17.4	137	95.1
M398434		2.4	159	1.6	17.1	142	89.4
M398435		2.3	133	1.5	17.4	118	86.2
M398436		5.1	53	35.2	9.2	27	120.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 12- SEP- 2012  
Account: RCM

Project: Rackla Gold

**CERTIFICATE OF ANALYSIS WH12203894**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12203896**

Project: Rackla Gold - Area D  
 P.O. No.: 12- 325  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 30- AUG- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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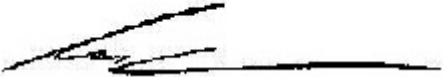
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

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**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 17- SEP- 2012  
 Account: RCM

Project: Rackla Gold - Area D

**CERTIFICATE OF ANALYSIS WH12203896**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K309603		6.81	0.19	0.08	5.77	489	190	1.66	0.24	2.82	0.14	68.1	13.1	56	21.4	33.6
K309604		8.19	0.08	0.08	6.20	351	200	1.96	0.25	2.52	0.23	68.4	16.6	64	29.8	42.3
K309605		7.19	<0.01	0.08	4.69	140.0	180	1.26	0.21	3.27	0.18	55.4	9.8	50	19.55	25.9
K309606		7.82	0.02	0.07	5.82	257	220	1.50	0.23	3.11	0.21	63.2	14.2	57	22.4	41.6
K309607		8.15	<0.01	0.14	6.72	275	220	1.69	0.24	2.44	0.09	66.3	19.3	68	27.7	54.9
K309608		3.46	<0.01	0.08	7.01	262	200	1.70	0.25	2.42	0.04	68.9	18.9	71	28.8	54.4
K309609		7.39	<0.01	0.07	7.29	155.0	230	2.26	0.22	1.61	0.02	65.9	20.7	78	38.0	54.0
K309610		6.97	0.56	0.07	8.10	581	210	2.35	0.23	2.02	0.05	64.9	20.7	86	41.3	52.3
K309611		7.97	0.01	0.08	8.00	461	210	2.18	0.24	1.68	0.02	70.2	24.0	86	42.7	50.2
K309612		8.62	<0.01	0.08	9.16	115.0	250	2.36	0.28	0.57	<0.02	74.4	29.5	107	73.3	66.6
K309613		0.26	0.28	0.73	1.97	481	710	0.32	0.22	1.07	0.43	38.3	4.2	76	2.40	42.4
K309614		6.81	<0.01	0.07	8.12	97.8	240	2.49	0.24	2.06	0.02	74.8	25.6	84	50.3	50.4
K309615		7.88	<0.01	0.07	5.20	153.0	170	1.54	0.19	8.82	0.12	56.3	16.1	47	22.1	39.6
K309616		3.40	0.40	0.07	7.11	1110	240	1.36	0.19	8.39	0.11	73.6	20.9	40	25.6	50.1
K309617		5.35	0.01	0.02	1.40	1660	90	0.36	0.07	30.6	0.04	21.6	4.7	7	5.86	11.1
K309618		4.50	0.03	0.02	0.71	80	70	0.24	0.04	34.3	0.03	10.95	2.4	1	2.13	6.9
K309619		3.09	0.08	0.05	1.36	182	90	0.35	0.06	30.6	0.07	19.65	5.4	8	4.45	14.3
K309620		6.84	1.14	0.81	2.82	>10000	110	0.49	0.12	21.8	0.14	36.6	10.1	25	8.37	20.8
K309621		7.05	0.91	0.63	1.24	>10000	90	0.26	0.06	30.4	0.08	16.00	4.2	7	3.61	10.1
K309622		3.36	0.26	0.20	1.41	1730	140	0.29	0.07	31.6	0.04	18.80	4.6	8	4.30	11.4
K309623		4.61	0.06	0.08	0.63	154	110	0.14	0.03	35.0	0.02	8.66	2.5	1	1.79	5.9
K309624		5.64	13.90	5.22	4.09	>10000	330	0.54	0.22	2.47	0.56	40.5	13.8	44	10.40	37.1
K309625		4.91	0.01	0.01	0.06	13	60	<0.05	0.02	21.3	0.06	1.33	1.1	<1	0.14	4.4
K309626		2.31	0.08	0.13	0.65	88	120	0.18	0.03	35.5	0.02	9.50	2.5	1	1.93	6.0
K309627		4.88	0.20	0.14	0.58	124	110	0.16	0.03	36.3	0.03	9.41	2.3	<1	1.85	5.6
K309628		<0.02	0.19	0.13	0.55	123	110	0.16	0.03	35.4	0.02	9.02	2.2	<1	1.75	5.4
K309629		7.35	0.06	0.06	0.60	58	100	0.18	0.03	34.2	0.05	9.03	2.1	<1	2.31	5.9
K309630		7.64	0.30	0.40	4.71	286	190	1.05	0.23	17.30	0.15	57.8	15.8	41	20.3	42.8
K309631		7.28	<0.01	0.05	1.43	40	180	0.34	0.07	31.7	0.08	20.2	4.7	8	5.37	12.0
K309632		8.59	<0.01	0.12	9.27	17.8	630	2.37	0.27	0.86	0.18	80.6	21.6	95	22.7	39.2
K309633		6.56	<0.01	0.23	8.81	252	390	1.83	0.25	0.75	0.19	81.0	18.0	96	19.55	36.4
K309634		5.58	<0.01	0.61	0.88	806	660	0.28	0.03	24.7	1.90	7.18	2.6	15	1.46	6.1
K309635		0.26	4.42	0.76	2.89	410	820	0.64	0.41	10.15	0.61	43.6	5.6	40	2.85	35.3
K309636		9.90	<0.01	0.04	0.11	218	20	0.08	0.01	21.7	0.11	1.09	1.2	<1	0.11	2.0
K309637		4.89	<0.01	0.01	0.05	<5	30	<0.05	0.01	21.0	0.08	1.15	1.3	<1	0.41	1.4
M396640		4.83	<0.01	0.03	1.49	15	270	0.52	0.07	25.1	0.05	22.7	3.2	7	5.30	6.9



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 Plus Appendix Pages  
 Finalized Date: 17- SEP- 2012  
 Account: RCM

Project: Rackla Gold - Area D

**CERTIFICATE OF ANALYSIS WH12203896**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K309603		3.83	15.75	0.13	3.0	1.88	0.056	2.74	32.6	13.1	1.21	561	0.66	0.03	10.4	25.3
K309604		4.25	17.50	0.14	2.9	1.49	0.062	2.93	33.3	18.0	1.16	552	0.94	0.03	9.9	29.6
K309605		3.45	12.50	0.12	2.4	0.51	0.045	2.16	26.8	26.3	1.28	664	0.79	0.03	8.6	18.7
K309606		4.48	16.20	0.14	2.8	0.96	0.057	2.70	30.9	21.1	1.35	674	1.29	0.03	10.0	27.2
K309607		5.12	19.50	0.16	3.1	0.94	0.066	3.13	31.9	18.7	1.32	532	0.66	0.03	10.9	36.8
K309608		4.87	19.55	0.17	3.3	0.90	0.065	3.28	33.3	19.3	1.35	542	0.54	0.03	11.5	35.5
K309609		4.63	21.3	0.16	2.8	1.13	0.069	3.44	32.4	24.1	0.93	344	0.37	0.02	9.4	32.5
K309610		5.12	23.8	0.17	2.7	2.28	0.071	3.77	31.8	19.6	1.19	1140	0.28	0.02	10.0	35.9
K309611		5.09	23.3	0.17	3.0	1.90	0.072	3.78	34.5	22.1	1.03	594	0.29	0.03	10.2	35.8
K309612		5.47	27.1	0.18	3.3	0.55	0.092	4.48	35.3	43.0	1.19	249	0.28	0.03	12.5	40.2
K309613		3.93	6.01	0.11	3.5	4.25	0.032	0.45	20.1	23.0	0.06	80	16.90	0.12	8.6	17.5
K309614		4.85	24.4	0.18	3.3	0.79	0.077	3.85	36.7	30.0	1.32	504	0.32	0.03	11.6	38.0
K309615		4.31	15.65	0.15	2.2	0.69	0.052	2.49	28.1	11.6	3.75	1740	0.64	0.03	7.8	34.8
K309616		5.31	20.0	0.17	3.0	4.85	0.063	3.22	38.1	22.7	2.89	1520	1.10	0.04	25.5	30.3
K309617		1.04	4.14	0.06	0.7	2.22	0.017	0.64	12.8	0.7	0.90	293	0.76	0.01	2.2	4.2
K309618		0.50	2.14	<0.05	0.3	0.94	0.009	0.33	6.5	1.7	0.57	296	0.38	0.01	1.3	1.0
K309619		1.06	3.99	0.06	0.7	2.43	0.016	0.65	11.1	3.9	0.72	413	0.83	0.01	2.3	5.4
K309620		1.81	8.09	0.09	1.8	6.34	0.034	1.33	20.0	7.2	0.59	909	1.05	0.02	5.1	11.6
K309621		0.85	3.74	0.05	0.7	3.08	0.019	0.60	9.0	4.4	0.54	815	0.77	0.01	2.2	3.2
K309622		0.92	4.18	0.05	0.8	2.83	0.014	0.67	10.2	0.8	0.47	409	0.41	0.01	2.4	3.9
K309623		0.46	1.93	<0.05	0.3	1.39	0.007	0.30	4.7	2.4	0.31	311	0.17	0.01	1.2	<0.2
K309624		2.76	11.75	0.11	2.0	12.9	0.032	1.86	23.1	26.5	0.30	307	0.92	0.02	6.2	22.4
K309625		0.48	0.23	<0.05	<0.1	<0.01	<0.005	0.02	0.6	1.2	12.80	200	0.11	<0.01	0.3	0.4
K309626		0.49	2.05	<0.05	0.3	1.21	0.007	0.30	5.0	3.3	0.33	483	0.15	0.01	1.2	0.3
K309627		0.41	1.83	<0.05	0.3	1.03	0.007	0.26	4.8	2.9	0.30	406	0.19	0.01	1.2	<0.2
K309628		0.40	1.72	<0.05	0.3	1.04	0.007	0.25	4.6	3.0	0.29	375	0.19	0.01	1.1	<0.2
K309629		0.53	1.92	<0.05	0.3	1.03	0.009	0.28	4.4	2.9	0.52	455	0.60	0.01	1.2	0.2
K309630		2.92	15.05	0.13	2.4	6.14	0.043	2.28	33.2	19.4	1.23	813	2.58	0.03	7.7	24.4
K309631		0.90	4.43	0.06	0.7	0.57	0.015	0.68	11.0	6.7	0.44	212	0.77	0.01	2.4	4.3
K309632		4.93	26.2	0.16	2.9	0.09	0.078	2.86	40.3	117.5	1.22	585	1.46	0.31	13.7	62.7
K309633		4.94	24.6	0.17	2.8	1.24	0.078	2.75	40.1	81.9	0.78	334	1.48	0.24	19.3	51.7
K309634		0.51	2.71	<0.05	0.4	4.82	0.013	0.29	5.4	5.0	6.58	147	2.08	0.01	1.6	9.4
K309635		1.83	7.56	0.09	1.5	5.15	0.027	0.87	25.2	53.8	4.94	357	10.90	0.02	6.5	32.3
K309636		0.22	0.36	<0.05	<0.1	1.07	<0.005	0.03	0.6	2.0	12.35	61	0.86	0.01	0.3	1.6
K309637		0.46	0.21	<0.05	<0.1	<0.01	<0.005	0.02	0.6	2.2	12.60	200	0.50	<0.01	0.4	1.0
M396640		1.53	4.44	0.06	0.6	0.05	0.011	0.63	10.8	11.8	2.75	407	0.27	0.08	2.3	4.3

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 Account: RCM

Project: Rackla Gold - Area D  
**CERTIFICATE OF ANALYSIS WH12203896**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K309603		510	19.3	134.5	<0.002	2.61	3.80	13.2	1	2.1	71.9	0.78	0.05	11.0	0.395	5.90
K309604		450	18.5	145.0	<0.002	3.17	2.15	15.8	1	2.1	81.9	0.73	0.05	10.9	0.392	4.20
K309605		390	12.2	106.0	<0.002	2.12	0.76	10.2	1	1.7	82.7	0.63	<0.05	9.2	0.322	3.01
K309606		680	11.3	131.5	<0.002	3.34	2.12	14.7	1	2.1	109.0	0.73	0.05	10.0	0.406	4.42
K309607		520	17.3	156.0	<0.002	4.53	1.69	19.5	2	2.2	94.8	0.81	0.06	10.8	0.490	4.10
K309608		690	15.8	161.5	<0.002	4.27	1.64	19.6	2	2.4	94.8	0.85	0.05	11.1	0.520	4.02
K309609		240	16.1	178.5	0.002	3.80	1.10	22.3	2	2.3	81.8	0.68	<0.05	10.4	0.410	4.79
K309610		250	16.9	186.0	0.002	4.28	7.73	26.3	2	2.4	109.5	0.73	<0.05	10.5	0.437	10.15
K309611		240	20.6	196.5	0.003	4.14	4.53	24.0	2	2.5	90.0	0.74	<0.05	11.3	0.449	7.38
K309612		220	19.9	221	0.003	1.63	0.61	28.2	2	2.9	73.6	0.90	<0.05	11.9	0.548	4.08
K309613		280	17.3	18.2	0.002	0.85	61.1	5.1	3	2.7	231	0.52	0.13	4.2	0.321	12.35
K309614		280	18.5	204	0.002	2.74	0.77	23.5	2	2.7	109.5	0.83	<0.05	12.3	0.480	5.35
K309615		420	11.6	129.5	0.002	2.24	1.03	14.4	1	1.8	195.5	0.56	<0.05	8.2	0.282	2.36
K309616		840	9.1	154.5	0.002	2.80	15.65	17.6	2	2.0	288	1.46	0.05	9.8	0.540	21.7
K309617		140	4.5	33.8	0.003	0.81	6.91	3.6	2	0.5	1015	0.15	<0.05	2.5	0.068	5.96
K309618		150	2.3	16.4	0.002	0.32	1.35	1.8	2	0.3	1290	0.08	<0.05	1.3	0.036	3.20
K309619		160	4.4	32.5	0.003	0.77	3.64	4.1	2	0.5	1175	0.15	<0.05	2.3	0.077	9.20
K309620		160	9.5	69.5	0.002	2.35	72.0	7.2	3	1.0	704	0.35	0.11	5.2	0.181	35.9
K309621		140	4.2	30.9	0.002	1.43	53.3	4.2	2	0.4	1235	0.14	0.05	2.0	0.068	16.75
K309622		130	4.7	35.0	0.002	0.95	13.10	4.1	2	0.5	1870	0.16	<0.05	2.3	0.077	12.05
K309623		100	2.2	15.1	<0.002	0.39	3.31	1.8	1	0.2	1575	0.07	<0.05	1.0	0.036	4.92
K309624		500	16.1	93.8	0.002	3.97	132.5	3.4	3	1.4	526	0.45	0.18	6.5	0.230	68.1
K309625		200	1.3	1.1	<0.002	0.03	0.32	0.2	1	<0.2	51.4	<0.05	<0.05	<0.2	<0.005	0.12
K309626		220	2.3	15.6	<0.002	0.44	3.11	2.3	1	0.3	1615	0.07	<0.05	1.0	0.035	4.10
K309627		370	2.2	13.5	<0.002	0.38	2.99	1.8	2	0.2	1645	0.07	<0.05	1.0	0.031	4.00
K309628		350	2.1	12.8	<0.002	0.36	2.87	1.8	2	0.2	1595	0.06	<0.05	0.9	0.030	3.79
K309629		360	2.2	14.0	0.002	0.41	1.74	2.1	1	0.3	1520	0.07	<0.05	1.0	0.033	3.76
K309630		240	14.7	116.0	0.006	2.77	11.35	12.7	2	1.6	912	0.55	0.08	7.9	0.265	24.9
K309631		170	4.8	33.2	0.003	0.87	0.53	3.7	2	0.5	1795	0.16	<0.05	2.4	0.077	4.57
K309632		830	22.2	168.0	<0.002	1.55	0.83	20.6	2	3.2	159.5	0.93	0.06	12.2	0.464	1.99
K309633		930	15.4	157.0	0.002	3.19	1.49	18.0	2	2.8	448	1.14	0.07	11.2	0.451	6.16
K309634		490	70.4	13.9	0.006	0.61	3.50	3.4	2	0.5	578	0.09	<0.05	1.3	0.043	3.36
K309635		540	9.9	51.3	0.009	1.43	94.6	5.3	3	2.9	59.6	0.41	0.20	6.2	0.158	2.58
K309636		10	1.5	1.4	0.003	0.11	0.36	1.3	1	<0.2	136.0	<0.05	<0.05	<0.2	0.005	0.26
K309637		180	1.3	1.5	<0.002	0.03	0.07	0.2	1	<0.2	52.4	<0.05	<0.05	<0.2	<0.005	0.02
M396640		360	4.0	31.9	<0.002	0.20	0.24	3.3	1	0.4	535	0.15	<0.05	2.6	0.064	0.23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 17- SEP- 2012  
 Account: RCM

Project: Rackla Gold - Area D

**CERTIFICATE OF ANALYSIS WH12203896**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	As %
K309603		2.4	92	11.6	19.9	90	105.0	
K309604		2.3	103	4.0	20.1	164	104.5	
K309605		2.0	73	2.6	16.5	151	87.4	
K309606		2.1	100	6.5	21.4	147	101.5	
K309607		2.2	134	3.1	20.8	88	112.0	
K309608		2.4	140	3.3	22.3	56	118.0	
K309609		2.0	142	2.5	20.3	42	100.5	
K309610		2.0	158	7.4	19.8	59	98.7	
K309611		2.1	154	4.4	22.5	57	107.0	
K309612		2.2	182	1.5	22.7	69	118.5	
K309613		6.0	51	36.9	9.8	29	129.0	
K309614		2.4	150	1.9	23.5	71	122.0	
K309615		2.0	82	2.4	20.4	55	80.7	
K309616		2.2	123	8.4	26.3	61	120.5	
K309617		1.9	19	1.2	11.6	18	23.9	
K309618		1.8	11	0.5	6.9	7	13.5	
K309619		2.6	23	0.9	13.9	21	26.7	
K309620		2.7	43	2.2	17.8	39	67.5	1.700
K309621		2.1	19	0.9	10.9	22	24.7	1.330
K309622		2.2	21	1.1	13.4	13	28.6	
K309623		1.6	10	0.4	8.0	4	12.9	
K309624		6.0	65	4.1	14.2	71	71.8	2.40
K309625		0.6	2	0.1	0.9	13	0.6	
K309626		1.8	10	0.5	9.3	4	13.4	
K309627		2.0	9	0.5	8.0	4	11.8	
K309628		1.9	8	0.4	7.7	4	11.8	
K309629		2.1	11	0.4	8.1	8	13.0	
K309630		3.2	77	3.2	23.4	61	87.5	
K309631		2.4	21	0.4	14.5	29	26.4	
K309632		2.9	163	1.8	18.5	159	109.0	
K309633		2.8	167	2.7	19.7	127	106.5	
K309634		5.3	47	1.9	10.5	238	15.7	
K309635		5.7	95	74.8	15.7	71	59.7	
K309636		2.5	16	0.3	1.5	9	1.6	
K309637		0.6	2	0.1	0.8	16	<0.5	
M396640		1.1	15	3.5	7.8	16	24.6	

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Account: RCM

Project: Rackla Gold - Area D

**CERTIFICATE OF ANALYSIS WH12203896**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**VANCOUVER BC V6B 1L8**

Page: 1  
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**CERTIFICATE WH12206334**

Project: Rackla Gold (Area B)  
 P.O. No.: 12- 333  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE	JULIA LANE
-----------------------------	------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE

To: **ATAC RESOURCES LTD.**  
**ATTN: JULIA LANE**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 18- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12206334**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398573		8.49	0.02	0.11	8.00	13.0	640	1.90	0.23	1.01	0.10	81.8	17.7	85	21.9	26.0
M398574		5.34	<0.01	0.10	9.04	15.7	620	2.27	0.25	0.73	0.11	93.9	19.8	94	34.5	32.3
M398575		8.91	<0.01	0.15	8.68	18.2	630	2.11	0.25	1.10	0.11	85.8	18.1	88	20.8	34.7
M398576		7.33	<0.01	0.09	0.20	1390	70	0.17	0.01	21.4	0.43	2.21	1.3	<1	0.40	1.9
M398577		3.55	<0.01	0.74	0.56	2230	470	0.28	0.03	20.3	1.81	16.15	1.9	9	2.95	4.7
M398578		1.77	<0.01	0.48	1.95	966	1450	0.56	0.08	14.85	1.25	16.50	3.3	28	15.30	14.2
M398579		4.98	<0.01	0.01	0.05	9	20	0.05	0.01	20.4	0.05	1.39	1.2	<1	0.25	1.7
M398580		3.74	<0.01	0.29	8.06	2900	1100	1.94	0.23	1.95	0.85	76.0	17.2	88	29.1	35.3
M398581		2.57	<0.01	0.43	7.07	2640	1140	1.67	0.21	2.17	1.48	68.5	15.0	79	26.7	35.2
M398582		9.60	<0.01	0.15	7.96	1650	950	1.95	0.22	1.40	0.20	81.1	16.8	85	29.7	34.5
M398583		4.26	<0.01	0.12	0.48	156	100	0.25	0.02	26.8	0.24	6.86	1.4	10	1.87	3.5
M398584		0.26	0.28	0.74	1.80	453	1000	0.32	0.20	1.02	0.40	39.5	4.0	75	2.22	38.7
M398585		3.69	<0.01	0.20	7.26	>10000	850	1.72	0.20	3.03	0.31	75.6	15.7	76	30.7	29.1
M398586		7.37	<0.01	0.10	8.28	176.5	1030	2.10	0.24	0.84	0.14	87.3	17.8	87	38.4	33.2
M398587		7.42	<0.01	0.11	8.06	61.9	900	2.08	0.23	1.20	0.12	90.0	17.0	85	39.2	29.9
M398588		4.39	<0.01	0.14	7.63	69.0	970	2.43	0.26	0.41	0.11	94.5	17.1	106	42.9	34.8
M398589		7.20	<0.01	0.19	7.50	870	1260	2.11	0.25	0.84	0.11	89.0	14.4	98	41.1	32.3
M398590		7.17	<0.01	0.20	8.04	2420	860	2.18	0.23	0.64	0.11	101.0	13.2	101	47.8	30.5
M398591		7.07	<0.01	0.22	8.26	469	830	2.17	0.25	0.58	0.10	103.0	13.7	101	56.7	31.5
M398592		7.85	<0.01	0.16	7.91	40.0	990	2.10	0.23	0.52	0.09	99.5	13.0	97	53.5	30.1
M398593		7.92	<0.01	0.17	8.14	21.4	1070	2.15	0.24	0.57	0.08	102.5	13.7	101	58.2	31.8
M398594		<0.02	<0.01	0.19	8.25	23.1	1050	2.13	0.24	0.59	0.09	101.0	13.4	104	58.4	31.4
M398595		7.14	<0.01	0.18	7.94	424	1210	2.03	0.24	0.53	0.10	101.0	13.0	101	90.2	29.4
M398596		6.80	<0.01	0.20	7.97	762	1280	2.11	0.23	0.63	0.11	100.5	13.4	100	48.0	30.9
M398597		7.95	<0.01	0.23	7.69	213	970	1.96	0.25	0.53	0.13	95.1	12.2	99	41.2	29.8
M398598		6.60	<0.01	0.22	7.91	492	1480	2.30	0.27	0.41	0.11	99.9	13.3	104	47.8	32.1
M398599		8.48	<0.01	0.21	7.88	22.8	1010	2.06	0.24	0.48	0.10	99.0	12.9	97	42.6	30.4
M398600		7.11	<0.01	0.18	7.57	39.2	1280	1.92	0.23	0.61	0.09	96.7	12.1	96	38.7	28.5
M398601		8.68	<0.01	0.21	8.19	20.8	1000	2.17	0.25	0.52	0.13	103.0	13.3	102	40.9	32.5
M398602		0.26	0.26	0.72	1.82	455	900	0.34	0.20	1.01	0.36	40.0	3.9	76	2.18	39.3
M398603		7.98	<0.01	0.23	8.11	13.9	760	2.02	0.25	0.49	0.12	98.5	13.2	105	38.3	31.6
M398604		3.22	<0.01	0.56	7.65	40.6	770	2.00	0.23	0.66	0.12	94.9	13.2	102	36.9	30.5
M398605		7.64	<0.01	0.22	7.90	16.4	770	2.08	0.23	0.49	0.10	94.9	13.8	104	40.1	31.4
M398606		7.76	<0.01	0.23	7.39	20.8	760	1.84	0.23	0.41	0.10	88.8	14.0	105	37.1	30.2
M398607		4.94	<0.01	0.01	0.07	<5	20	0.06	0.02	19.95	0.05	1.61	1.2	<1	0.29	3.5
M398608		7.97	<0.01	0.28	7.64	18.2	770	2.16	0.24	0.50	0.11	98.7	12.9	100	41.2	30.0

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 Plus Appendix Pages  
 Finalized Date: 18- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12206334**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398573		4.70	20.5	0.18	2.4	0.04	0.072	2.24	41.4	86.4	1.25	487	0.91	0.31	11.8	53.2
M398574		4.72	23.6	0.20	2.7	0.03	0.074	2.66	46.6	102.5	1.15	454	0.93	0.36	13.7	57.7
M398575		4.79	21.9	0.20	2.5	0.04	0.075	2.52	43.4	97.9	1.20	751	1.12	0.31	12.3	54.6
M398576		0.35	0.57	0.06	0.1	2.07	<0.005	0.06	1.2	1.8	11.55	85	0.81	0.02	0.5	5.9
M398577		0.87	1.67	0.08	0.3	79.3	0.010	0.17	10.6	3.2	11.35	272	2.40	0.01	1.6	11.1
M398578		1.14	5.46	0.09	0.8	11.1	0.014	0.69	9.4	10.1	9.21	96	5.28	0.02	3.4	24.9
M398579		0.45	0.23	0.11	<0.1	0.1	<0.005	0.02	0.7	1.0	12.30	192	0.12	<0.01	0.3	3.7
M398580		4.24	20.9	0.19	2.7	2.90	0.071	2.77	36.4	90.9	0.92	349	3.04	0.14	12.4	60.4
M398581		4.04	17.90	0.19	2.4	3.48	0.062	2.39	33.9	67.8	1.06	375	4.70	0.11	10.7	62.8
M398582		5.54	20.5	0.20	2.9	1.84	0.072	2.64	40.7	110.5	0.67	294	1.47	0.17	12.7	54.4
M398583		0.50	1.21	0.05	0.2	0.2	0.005	0.13	6.7	5.5	1.54	265	0.89	0.02	1.1	7.2
M398584		3.77	5.38	0.12	3.2	3.97	0.031	0.41	20.9	27.1	0.06	75	15.65	0.11	8.1	16.7
M398585		4.51	18.40	0.22	2.6	2.67	0.070	2.44	37.7	87.9	1.52	529	1.52	0.17	11.7	49.2
M398586		4.50	21.0	0.18	2.8	0.59	0.065	2.65	43.4	127.5	0.94	342	1.45	0.21	13.2	57.2
M398587		4.43	20.9	0.19	2.6	0.33	0.068	2.51	45.6	106.5	1.15	541	3.22	0.24	16.6	48.7
M398588		3.47	23.3	0.16	2.7	0.21	0.074	2.60	49.2	110.5	0.75	163	2.19	0.20	29.9	39.7
M398589		3.76	21.9	0.16	2.5	0.28	0.075	2.54	47.1	110.5	0.83	293	1.86	0.18	29.1	36.6
M398590		3.95	20.3	0.20	2.7	0.38	0.074	2.72	51.9	103.0	0.77	334	1.52	0.22	30.3	35.2
M398591		3.98	21.3	0.21	2.6	0.22	0.075	2.86	52.6	112.5	0.77	348	1.78	0.19	31.6	36.9
M398592		3.85	19.85	0.20	2.6	0.17	0.067	2.72	51.2	111.0	0.75	317	1.47	0.18	29.6	34.0
M398593		4.17	21.4	0.21	2.7	0.13	0.075	2.69	52.8	122.0	0.82	302	1.47	0.22	30.9	36.0
M398594		4.27	21.3	0.21	2.7	0.14	0.072	2.75	52.1	120.0	0.84	307	1.49	0.23	30.6	35.1
M398595		4.08	20.0	0.19	2.7	0.20	0.072	2.53	52.1	138.5	0.81	341	1.75	0.23	30.3	34.8
M398596		4.11	20.4	0.20	2.7	0.28	0.067	2.56	51.2	121.0	0.82	356	1.73	0.25	31.3	36.3
M398597		4.74	19.25	0.21	2.5	0.25	0.072	2.42	49.2	135.0	0.84	348	1.85	0.25	28.0	34.2
M398598		3.40	20.3	0.20	2.7	0.23	0.073	2.50	50.8	138.5	0.71	203	1.72	0.24	29.6	35.8
M398599		4.34	20.6	0.22	2.7	0.12	0.075	2.43	50.7	145.5	0.83	360	1.73	0.26	30.4	35.0
M398600		3.70	19.75	0.19	2.6	0.09	0.067	2.34	49.6	127.5	0.81	273	1.57	0.24	28.9	33.3
M398601		3.96	21.3	0.22	2.7	0.08	0.074	2.60	52.3	112.5	0.82	290	1.93	0.28	31.7	36.3
M398602		3.81	5.41	0.16	3.2	4.07	0.029	0.42	21.3	25.7	0.06	73	16.05	0.11	8.4	16.9
M398603		4.07	20.5	0.22	2.7	0.07	0.075	2.52	50.7	109.0	0.83	268	1.79	0.29	29.7	35.8
M398604		4.41	19.05	0.22	2.6	0.08	0.068	2.41	48.3	105.0	0.91	321	1.84	0.24	27.8	37.2
M398605		4.18	20.1	0.23	2.6	0.07	0.067	2.59	48.9	101.0	0.81	304	1.75	0.23	28.3	35.8
M398606		3.52	18.50	0.22	2.6	0.07	0.067	2.33	46.5	99.1	0.74	178	1.59	0.23	25.1	35.6
M398607		0.44	0.28	0.08	<0.1	<0.1	<0.005	0.03	0.8	1.4	12.10	181	0.16	<0.01	0.4	2.7
M398608		5.05	19.90	0.22	2.7	0.07	0.069	2.50	50.8	106.0	0.87	348	1.80	0.25	28.5	34.6



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12206334**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398573		770	16.5	137.0	<0.002	1.26	0.57	15.8	1	2.5	154.5	0.79	0.06	10.1	0.400	1.13
M398574		760	20.8	166.5	<0.002	1.39	0.65	17.9	1	2.8	132.5	0.90	0.05	11.6	0.457	1.36
M398575		870	19.4	148.0	<0.002	1.64	0.65	17.5	2	2.6	153.5	0.79	0.06	10.9	0.436	1.47
M398576		40	15.6	3.5	<0.002	0.20	0.86	1.8	1	<0.2	148.5	<0.05	<0.05	0.3	0.010	0.76
M398577		470	171.0	9.7	0.004	0.87	5.80	3.0	2	0.4	517	0.10	<0.05	1.3	0.040	50.7
M398578		590	24.8	37.6	0.015	1.19	3.50	5.6	3	1.5	559	0.21	<0.05	2.5	0.097	7.77
M398579		190	1.2	1.5	<0.002	<0.01	<0.05	0.2	1	<0.2	48.0	<0.05	<0.05	<0.2	<0.005	0.04
M398580		870	16.8	140.5	0.004	3.89	2.15	16.3	4	2.4	235	0.84	0.07	9.7	0.428	6.76
M398581		920	16.3	128.5	0.010	3.71	3.10	14.8	5	2.2	258	0.72	0.07	9.0	0.380	7.78
M398582		830	23.2	141.5	<0.002	5.46	1.45	16.3	2	2.5	231	0.84	0.05	10.2	0.449	5.78
M398583		610	1.3	8.4	0.002	0.27	0.17	1.2	1	0.2	260	0.06	<0.05	0.6	0.028	0.48
M398584		260	17.3	18.3	0.002	0.81	62.4	4.9	2	2.5	213	0.50	0.11	3.8	0.305	10.35
M398585		800	19.6	135.0	<0.002	3.53	1.99	14.7	6	2.2	245	0.78	0.09	9.6	0.405	5.82
M398586		890	18.9	149.0	<0.002	2.39	0.79	16.6	2	2.5	279	0.89	0.06	11.2	0.463	3.03
M398587		930	17.7	142.5	<0.002	0.99	0.83	15.5	2	2.6	189.0	0.97	0.06	10.7	0.436	1.77
M398588		1200	15.9	159.5	0.003	0.39	0.84	15.3	3	2.4	235	1.57	0.09	11.5	0.467	1.36
M398589		1230	19.9	145.0	0.002	0.55	1.10	14.3	3	2.4	335	1.54	0.09	11.3	0.448	1.77
M398590		1260	18.9	149.0	<0.002	0.56	1.18	13.5	3	2.5	215	1.68	0.08	11.1	0.471	1.58
M398591		1340	18.6	159.0	0.002	0.33	1.05	13.9	3	2.5	170.0	1.65	0.09	11.3	0.474	1.38
M398592		1260	17.4	150.5	0.002	0.17	0.89	13.4	2	2.4	161.5	1.61	0.08	11.0	0.461	1.15
M398593		1330	18.0	157.0	0.002	0.18	0.96	14.0	2	2.5	168.0	1.64	0.10	11.1	0.467	1.09
M398594		1340	18.4	156.0	0.002	0.17	0.96	13.8	2	2.5	168.5	1.64	0.10	11.2	0.480	1.11
M398595		1310	19.9	156.0	0.002	0.24	1.02	13.2	3	2.4	255	1.63	0.09	11.2	0.472	1.00
M398596		1280	19.2	147.0	0.002	0.57	1.32	13.2	3	2.5	259	1.67	0.09	11.0	0.474	0.97
M398597		1340	20.9	139.0	0.002	0.24	1.13	12.5	3	2.4	342	1.49	0.08	10.6	0.440	0.90
M398598		1300	17.7	151.5	0.002	0.32	1.47	13.5	3	2.5	330	1.64	0.09	11.4	0.461	0.90
M398599		1280	17.8	142.5	0.002	0.21	0.88	13.3	2	2.5	222	1.63	0.10	11.1	0.464	0.80
M398600		1220	21.5	138.5	0.002	0.24	0.88	12.6	2	2.4	269	1.59	0.09	10.7	0.444	0.77
M398601		1290	18.2	154.0	0.002	0.28	0.92	13.8	3	2.5	224	1.68	0.10	11.4	0.475	0.84
M398602		260	16.9	18.1	0.002	0.82	62.0	4.8	2	2.5	216	0.53	0.12	3.8	0.307	10.35
M398603		1330	19.1	144.0	0.002	0.23	1.04	13.6	3	2.4	183.5	1.61	0.10	11.3	0.476	0.95
M398604		1310	18.9	140.5	0.002	0.27	1.02	12.9	2	2.3	195.0	1.52	0.09	10.5	0.443	0.77
M398605		1350	19.2	153.5	0.002	0.19	1.01	13.3	2	2.3	147.5	1.51	0.10	10.8	0.457	0.76
M398606		1140	19.5	142.0	0.002	0.23	1.06	12.7	3	2.2	138.5	1.38	0.10	10.6	0.433	0.76
M398607		190	1.3	1.6	<0.002	<0.01	<0.05	0.2	1	<0.2	47.7	<0.05	<0.05	<0.2	0.005	<0.02
M398608		1350	19.4	154.5	0.002	0.20	1.14	13.3	3	2.3	139.5	1.54	0.09	10.6	0.446	0.73



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 Account: RCM

Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12206334**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62
		U	V	W	Y	Zn	Zr	As
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.001
M398573		2.2	136	1.7	16.4	133	87.1	
M398574		2.4	152	1.9	18.0	139	97.3	
M398575		2.4	151	2.4	17.6	137	90.4	
M398576		2.4	18	0.4	2.8	54	3.0	
M398577		5.4	36	2.7	3.9	312	11.0	
M398578		9.3	130	3.4	5.0	119	28.2	
M398579		0.7	2	0.1	0.8	14	<0.5	
M398580		3.4	196	2.2	21.1	185	96.1	
M398581		4.2	208	2.2	20.0	220	87.3	
M398582		2.5	152	1.6	21.3	140	102.5	
M398583		1.7	21	0.2	9.9	32	7.9	
M398584		5.0	49	33.4	9.6	29	110.0	
M398585		2.4	142	1.8	19.2	137	92.3	1.150
M398586		2.6	162	1.7	20.0	138	97.8	
M398587		2.8	138	1.6	21.2	120	97.5	
M398588		2.9	215	1.7	23.7	128	99.0	
M398589		2.7	192	1.7	19.3	116	89.6	
M398590		2.5	194	1.7	21.3	117	97.6	
M398591		2.4	197	1.7	22.4	115	98.4	
M398592		2.4	195	1.6	21.7	122	95.6	
M398593		2.5	207	1.7	23.1	132	100.0	
M398594		2.5	209	1.7	23.5	122	99.8	
M398595		2.5	197	1.6	21.3	121	98.3	
M398596		2.4	193	1.6	20.3	115	98.6	
M398597		2.4	192	1.6	20.6	125	92.3	
M398598		2.6	204	1.7	20.2	124	99.3	
M398599		2.4	190	1.6	22.0	117	99.1	
M398600		2.3	186	1.5	20.0	109	93.6	
M398601		2.5	202	1.7	22.4	132	99.4	
M398602		4.9	49	34.8	9.8	27	113.5	
M398603		2.6	211	1.7	22.8	127	100.5	
M398604		2.4	194	3.8	22.0	138	94.1	
M398605		2.5	205	1.6	23.1	128	98.5	
M398606		2.7	212	1.5	22.3	124	95.7	
M398607		0.6	3	0.1	0.9	15	0.8	
M398608		2.5	203	1.6	24.4	126	98.8	



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Project: Rackla Gold (Area B)

**CERTIFICATE OF ANALYSIS WH12206334**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12210696**

Project: Rackla Gold - Area C  
 P.O. No.: 12- 349  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12210696**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K311591		11.46	<0.01	1.92	5.00	61.3	740	1.97	0.25	1.25	9.38	39.7	12.6	75	18.70	75.1
K311592		11.57	0.01	2.26	6.62	181.0	770	2.26	0.32	0.91	37.8	58.5	15.4	85	26.2	93.7
K311593		11.38	<0.01	0.69	7.42	150.0	1030	1.86	0.28	1.22	5.47	66.0	13.6	40	25.6	50.5
K311594		6.93	<0.01	0.02	0.06	<5	20	0.06	0.02	20.9	0.08	1.18	1.2	<1	0.17	2.0
K311595		12.09	<0.01	4.45	2.87	20.5	820	1.35	0.16	2.48	39.3	28.9	5.3	65	12.15	68.2
K311596		9.94	<0.01	3.39	3.08	27.9	1140	1.48	0.15	3.26	44.0	26.4	6.0	80	12.25	82.4
K311597		10.96	<0.01	3.39	3.76	19	770	1.85	0.18	10.25	5.05	30.2	5.9	206	12.45	90.7
K311598		11.46	<0.01	2.38	4.05	30.9	1100	1.64	0.20	3.30	7.33	35.4	7.8	145	13.35	75.0
K311599		4.92	<0.01	1.95	2.60	20.2	980	1.11	0.12	7.44	6.45	22.4	5.1	137	8.69	60.2
K311600		2.36	<0.01	2.10	2.83	25.3	560	1.20	0.13	5.78	6.71	23.6	5.5	142	9.35	65.2
M398615		4.65	<0.01	0.89	3.24	26.9	650	1.09	0.24	1.30	0.53	26.0	5.4	85	9.43	62.2
M398616		6.21	<0.01	7.62	3.53	55	730	1.20	0.15	10.75	18.65	33.0	4.7	370	11.85	63.3
M398617		10.52	0.01	2.48	4.67	76.0	670	1.77	0.22	2.57	19.50	41.7	8.8	90	13.30	78.2
M398618		11.66	0.01	1.54	4.54	65.3	600	1.81	0.21	0.52	2.31	48.1	7.2	124	12.20	90.3
M398619		0.27	3.71	0.79	2.77	460	830	0.51	0.55	9.93	0.54	38.2	5.2	43	2.35	33.2
M398620		5.82	<0.01	2.55	4.57	192.0	3300	1.36	0.20	1.63	4.62	40.2	8.6	214	12.30	71.8
M398621		5.13	<0.01	0.66	2.44	110	3640	0.73	0.10	17.25	3.89	20.7	5.5	79	5.31	55.2
M398622		5.35	<0.01	0.59	1.00	37	6960	0.32	0.05	23.3	1.68	11.35	3.1	42	1.37	17.4
M398623		4.50	<0.01	2.60	5.23	141.5	2100	1.29	0.22	0.47	1.66	44.8	2.8	263	16.05	79.0
M398624		8.81	<0.01	0.81	4.99	241	1900	1.46	0.22	0.33	1.56	46.8	7.8	133	11.85	72.3
M398625		10.62	<0.01	1.10	4.63	318	610	1.37	0.22	1.08	0.86	43.6	8.5	100	12.60	58.5
M398626		5.71	<0.01	1.39	4.10	113.5	1220	1.01	0.17	5.82	3.53	36.9	5.7	133	9.12	98.5
M398627		8.99	<0.01	1.48	4.10	92.7	2470	1.23	0.17	4.76	2.51	35.9	5.9	126	9.22	49.4
M398628		0.27	0.23	0.74	1.88	476	360	0.30	0.25	1.07	0.39	33.7	4.0	80	2.00	42.8
M398629		11.14	<0.01	0.96	4.24	79.5	370	1.19	0.18	3.62	0.65	35.9	5.7	141	13.25	68.5
M398630		11.61	<0.01	0.87	4.23	34.0	530	1.20	0.18	4.26	0.58	37.0	5.4	127	14.50	64.6
M398631		11.63	0.01	0.91	3.83	21.6	720	0.95	0.17	4.83	0.44	33.3	4.3	119	13.05	54.0
M398632		11.86	<0.01	0.79	3.97	26.4	480	1.02	0.17	4.11	0.41	35.4	4.7	117	14.35	50.5
M398633		6.91	<0.01	0.01	0.04	<5	70	<0.05	0.03	21.3	0.06	0.97	1.6	<1	0.13	2.0
M398634		11.59	<0.01	0.81	3.76	19.8	550	1.00	0.16	4.97	0.47	32.1	4.2	115	13.20	51.9
M398635		11.21	<0.01	0.70	4.51	20.2	540	1.15	0.20	4.11	0.36	40.0	5.5	122	16.35	51.8
M398636		<0.02	<0.01	0.72	4.44	20.8	330	1.18	0.19	3.94	0.38	38.4	5.4	118	16.45	50.5
M398637		11.40	<0.01	0.72	4.13	27.2	800	1.14	0.19	4.60	0.40	37.4	5.4	110	13.40	50.0
M398638		11.89	<0.01	0.80	3.95	20.5	810	1.07	0.17	5.12	0.47	35.2	4.9	113	13.05	51.7
M398639		11.44	<0.01	0.66	4.60	17.8	760	1.29	0.19	4.54	0.34	40.9	5.9	108	14.85	47.7
M398640		11.80	<0.01	0.68	4.56	28.3	720	1.16	0.19	5.38	0.34	40.6	6.0	105	13.65	47.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Finalized Date: 17- SEP- 2012  
 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12210696**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
K311591		3.86	14.05	0.26	2.1	0.22	0.050	1.95	22.4	20.7	0.67	117	21.3	0.05	7.9	150.5
K311592		4.75	18.50	0.39	2.9	0.22	0.070	2.83	31.8	19.2	0.66	126	72.2	0.06	10.0	292
K311593		4.73	17.65	0.33	4.0	0.24	0.070	3.10	34.4	21.8	0.91	75	80.4	0.05	12.6	459
K311594		0.46	0.29	0.11	<0.1	<0.01	0.005	0.02	0.6	0.9	13.00	199	0.31	0.01	0.3	3.4
K311595		1.10	7.82	0.25	1.3	0.13	0.030	1.02	18.1	19.2	0.41	76	22.4	0.04	4.4	99.7
K311596		1.19	8.10	0.30	1.4	0.19	0.032	1.15	17.5	20.4	0.43	159	43.8	0.04	4.2	151.0
K311597		1.87	9.58	0.27	1.6	0.17	0.042	1.56	21.9	23.5	0.55	155	10.35	0.04	6.1	193.0
K311598		2.06	10.45	0.23	1.8	0.23	0.046	1.71	22.8	22.0	0.47	126	21.4	0.04	7.4	139.5
K311599		1.80	7.40	0.18	1.0	0.17	0.036	0.91	16.2	17.9	0.32	114	8.78	0.03	4.4	101.5
K311600		2.27	7.83	0.19	1.0	0.18	0.034	0.98	17.0	18.1	0.29	81	10.50	0.03	4.4	107.0
M398615		3.09	9.64	0.16	1.2	0.17	0.047	1.16	14.4	21.9	0.29	65	3.12	0.03	4.8	59.3
M398616		1.43	9.26	0.28	1.8	0.30	0.041	1.28	30.6	11.2	2.52	125	37.2	0.04	6.1	144.0
M398617		2.56	12.90	0.25	2.2	0.49	0.049	1.91	24.0	19.4	0.56	104	32.4	0.03	9.1	166.5
M398618		2.78	14.55	0.18	2.8	0.37	0.047	2.17	29.0	19.0	0.45	80	13.75	0.03	17.3	103.0
M398619		1.87	6.97	0.13	1.6	4.73	0.026	0.87	24.3	43.0	5.23	362	10.20	0.02	5.6	31.2
M398620		3.53	12.35	0.21	2.1	0.34	0.041	1.69	36.2	14.6	0.23	86	12.80	0.04	8.1	158.0
M398621		2.28	6.12	0.07	1.2	0.17	0.025	0.81	15.9	7.9	0.33	115	5.05	0.02	4.2	91.3
M398622		1.06	2.95	0.07	0.9	0.10	0.012	0.37	8.8	7.1	0.46	136	4.22	0.01	2.4	36.4
M398623		2.32	14.75	0.17	2.3	0.37	0.042	1.93	36.1	13.5	0.26	26	15.70	0.05	8.9	88.0
M398624		2.79	14.30	0.20	2.5	0.23	0.042	1.79	36.0	16.4	0.23	59	3.92	0.04	9.0	111.0
M398625		2.42	14.45	0.14	2.3	0.25	0.046	1.73	29.1	14.1	0.41	157	3.52	0.04	8.4	69.1
M398626		2.44	11.20	0.15	2.0	0.34	0.038	1.49	31.2	20.1	0.37	75	8.73	0.03	7.4	94.0
M398627		2.45	11.50	0.13	2.0	0.48	0.037	1.49	28.4	23.6	0.65	108	5.78	0.03	7.1	86.6
M398628		3.94	5.83	0.07	3.5	3.99	0.031	0.45	19.6	21.4	0.06	77	15.70	0.12	7.8	18.4
M398629		2.54	11.80	0.16	2.2	0.48	0.041	1.57	29.0	15.2	0.42	67	8.15	0.04	8.4	115.0
M398630		2.24	12.15	0.18	2.2	0.54	0.043	1.49	28.8	17.7	0.44	73	6.64	0.05	8.5	95.1
M398631		2.23	10.75	0.12	2.0	0.28	0.037	1.32	26.2	16.4	0.42	66	4.07	0.04	7.8	80.8
M398632		2.38	11.50	0.13	2.1	0.27	0.040	1.38	26.1	17.1	0.43	62	3.74	0.05	8.3	76.6
M398633		0.49	0.39	0.17	<0.1	<0.01	<0.005	0.02	0.5	0.7	12.85	211	0.26	<0.01	0.4	1.4
M398634		2.06	10.90	0.11	2.0	0.23	0.038	1.31	24.6	15.4	0.46	64	4.64	0.04	7.7	75.3
M398635		2.50	13.20	0.12	2.3	0.22	0.045	1.60	29.6	16.6	0.52	71	2.72	0.05	8.9	71.7
M398636		2.42	12.90	0.12	2.2	0.22	0.042	1.55	27.8	16.3	0.49	66	2.68	0.05	8.8	70.1
M398637		2.72	11.95	0.13	2.1	0.32	0.045	1.45	27.1	15.5	0.85	90	4.39	0.04	8.3	73.5
M398638		2.37	11.50	0.13	2.2	0.22	0.041	1.37	26.7	14.9	0.65	79	4.70	0.04	8.0	75.2
M398639		2.68	12.85	0.15	2.3	0.19	0.045	1.59	29.4	17.5	0.92	102	2.25	0.05	8.6	63.3
M398640		3.11	12.80	0.12	2.3	0.20	0.043	1.59	28.5	18.7	1.16	128	2.59	0.04	8.5	63.6

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 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12210696**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K311591		1520	17.1	102.5	0.047	3.93	15.40	10.8	27	2.1	110.0	0.59	0.16	6.8	0.279	4.91
K311592		1000	22.2	146.0	0.235	5.11	33.0	14.4	56	2.2	127.5	0.71	0.23	8.1	0.363	8.70
K311593		1150	25.5	137.5	0.308	5.29	24.5	12.1	32	2.1	292	0.79	0.16	10.9	0.318	11.50
K311594		180	3.9	1.2	<0.002	0.01	0.12	0.2	1	<0.2	45.8	<0.05	<0.05	<0.2	<0.005	0.02
K311595		9540	16.7	55.9	0.045	1.11	34.8	5.4	38	1.5	278	0.35	0.09	4.7	0.127	1.23
K311596		9880	15.8	65.5	0.075	1.41	47.3	6.4	53	1.3	247	0.31	0.14	3.9	0.144	1.94
K311597		>10000	11.3	78.3	0.053	2.06	10.15	7.6	37	1.3	597	0.39	0.14	4.4	0.176	0.77
K311598		>10000	15.1	87.4	0.041	2.21	12.30	7.9	26	1.6	307	0.52	0.15	5.6	0.217	1.53
K311599		>10000	7.2	51.9	0.029	1.76	5.45	6.6	17	1.2	385	0.30	0.08	3.3	0.135	0.74
K311600		>10000	8.3	56.2	0.027	2.42	6.33	7.0	21	1.3	351	0.30	0.09	3.8	0.147	0.89
M398615		2300	11.7	65.4	0.009	3.14	4.13	6.3	7	1.2	112.0	0.32	0.19	3.8	0.160	0.74
M398616		3140	9.4	70.7	0.292	1.55	11.70	10.0	49	1.2	775	0.41	0.17	4.5	0.207	2.28
M398617		6950	15.2	93.0	0.077	2.65	22.5	9.2	33	1.8	250	0.60	0.14	6.6	0.245	3.85
M398618		770	14.0	91.0	0.012	2.90	13.50	10.0	13	1.7	91.8	1.16	0.16	7.8	0.317	3.19
M398619		560	9.1	44.5	0.010	1.48	96.1	4.8	2	2.6	56.4	0.41	0.22	6.0	0.158	2.38
M398620		2030	16.1	83.6	0.023	0.26	3.30	10.7	16	1.3	332	0.57	0.11	6.6	0.265	1.26
M398621		1520	19.2	41.4	0.010	0.20	3.18	6.8	6	0.7	1060	0.30	0.07	3.1	0.123	0.84
M398622		1980	14.8	16.4	0.012	0.30	1.84	4.0	4	0.4	1330	0.16	<0.05	1.7	0.056	0.25
M398623		860	15.0	96.6	0.052	0.26	3.49	11.1	11	1.6	247	0.64	0.12	7.4	0.299	1.32
M398624		930	16.3	90.8	0.017	0.37	2.24	14.0	18	1.6	122.5	0.65	0.12	7.4	0.293	0.81
M398625		850	23.4	87.5	0.009	1.32	2.66	12.7	7	1.5	142.0	0.59	0.13	6.7	0.275	0.66
M398626		1080	27.7	75.9	0.027	1.14	3.51	9.6	18	1.4	454	0.54	0.11	5.6	0.240	0.87
M398627		1120	20.3	76.0	0.015	0.64	6.05	11.1	12	1.4	392	0.53	0.09	5.8	0.242	0.96
M398628		290	16.9	15.9	0.002	0.88	61.4	5.1	3	2.5	226	0.50	0.13	3.8	0.313	11.30
M398629		720	13.8	81.1	0.021	1.82	3.76	10.4	12	1.4	248	0.61	0.08	5.9	0.272	1.43
M398630		870	9.4	82.1	0.017	1.62	1.98	10.5	11	1.4	280	0.62	0.09	5.9	0.275	1.37
M398631		800	8.4	72.7	0.012	1.85	1.58	9.7	10	1.3	346	0.56	0.08	5.3	0.246	1.27
M398632		720	8.7	77.3	0.011	2.06	1.56	10.1	9	1.3	303	0.61	0.08	5.6	0.258	1.25
M398633		200	1.2	0.9	<0.002	0.01	0.05	0.3	1	<0.2	47.0	<0.05	<0.05	<0.2	<0.005	<0.02
M398634		860	8.3	72.6	0.011	1.71	1.57	9.8	9	1.3	353	0.57	0.06	5.2	0.247	0.89
M398635		930	9.9	88.9	0.008	2.01	1.60	11.2	9	1.5	309	0.65	0.10	6.5	0.293	0.88
M398636		880	9.5	87.7	0.008	1.97	1.57	10.9	8	1.5	302	0.63	0.09	6.1	0.283	0.85
M398637		910	9.5	81.7	0.011	1.80	1.75	10.3	8	1.4	383	0.60	0.10	5.9	0.262	0.82
M398638		920	8.8	78.2	0.011	1.82	1.69	10.3	9	1.3	381	0.59	0.09	5.6	0.254	0.83
M398639		990	9.9	87.3	0.008	1.44	1.60	11.9	7	1.5	321	0.63	0.09	6.4	0.285	0.51
M398640		910	10.2	85.4	0.008	1.44	1.73	11.7	6	1.4	371	0.63	0.09	6.1	0.283	0.47

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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12210696**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
K311591		9.3	682	1.0	24.3	672	67.4
K311592		13.5	1030	1.3	25.1	1740	97.7
K311593		36.1	1040	1.0	19.0	647	116.0
K311594		0.9	4	0.1	0.9	16	0.6
K311595		15.6	1540	0.7	34.6	2010	45.8
K311596		18.6	2070	0.6	26.8	2310	48.9
K311597		11.8	366	0.9	37.2	1160	59.0
K311598		11.2	426	1.1	28.0	790	60.4
K311599		7.0	343	0.9	27.6	732	42.2
K311600		8.3	392	0.9	34.4	715	40.5
M398615		3.0	120	1.1	12.5	252	39.0
M398616		19.4	518	1.3	46.4	626	71.9
M398617		16.1	1060	1.0	31.0	1320	76.3
M398618		6.4	545	1.6	24.5	452	112.0
M398619		5.2	100	76.4	14.8	76	56.2
M398620		7.5	270	1.3	41.2	620	77.2
M398621		5.4	148	0.7	38.0	452	51.2
M398622		2.9	114	0.3	17.2	190	38.2
M398623		8.2	281	1.4	21.9	294	84.6
M398624		5.4	262	1.8	31.6	252	92.8
M398625		3.5	219	1.8	22.7	157	83.0
M398626		6.1	236	1.6	26.6	392	74.8
M398627		5.0	219	2.3	25.1	430	77.8
M398628		5.3	53	36.4	9.6	32	125.0
M398629		6.9	202	1.6	29.2	286	82.6
M398630		6.0	209	1.3	28.4	249	83.6
M398631		4.6	197	1.1	26.9	211	75.9
M398632		4.4	199	1.2	25.9	206	79.6
M398633		0.6	2	0.1	0.8	15	<0.5
M398634		5.2	198	1.1	27.2	224	76.7
M398635		4.5	215	1.3	27.9	213	84.9
M398636		4.3	207	1.2	27.7	211	83.9
M398637		4.8	201	1.2	25.3	191	83.5
M398638		5.5	202	1.4	27.1	220	81.2
M398639		4.7	217	1.3	26.3	201	85.3
M398640		4.5	221	1.3	25.8	190	88.0

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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12210696**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12213630**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 351  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 12- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
 Finalized Date: 20- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12213630**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398641		11.27	0.01	0.66	4.56	20.1	980	1.55	0.19	2.73	0.39	45.3	6.2	110	15.80	54.2
M398642		10.12	<0.01	0.68	4.23	24.5	680	1.39	0.19	2.12	0.30	43.9	6.1	97	12.90	43.7
M398643		11.29	<0.01	0.92	4.83	19.9	840	1.39	0.20	2.13	0.32	42.8	6.8	98	14.75	44.7
M398644		10.10	<0.01	0.93	4.94	28.9	790	1.44	0.20	2.79	0.49	45.1	6.6	98	14.70	50.5
M398645		10.99	<0.01	0.78	4.77	22.6	490	1.35	0.18	3.69	0.55	44.4	6.6	89	15.80	42.9
M398646		11.44	<0.01	2.04	4.54	22.9	610	1.29	0.17	3.67	0.64	40.0	5.6	172	16.25	68.3
M398647		11.59	<0.01	1.34	4.09	25.6	350	1.01	0.16	5.15	0.65	36.9	4.8	137	14.25	59.1
M398648		6.89	<0.01	0.02	0.05	<5	20	<0.05	0.03	20.9	0.05	1.13	0.5	<1	0.14	1.9
M398649		10.93	<0.01	1.85	4.02	36.8	290	1.30	0.17	7.07	0.84	40.9	5.6	141	16.00	54.0
M398650		10.96	<0.01	1.40	4.70	29.8	180	1.32	0.19	3.86	0.68	44.3	6.5	140	18.30	57.8
M398651		11.53	<0.01	2.17	4.19	35.8	370	1.28	0.15	6.45	0.96	42.6	5.5	129	15.15	49.1
M398652		10.94	<0.01	1.62	2.23	26	260	0.78	0.09	15.10	0.78	23.3	2.8	100	8.13	29.7
M398653		6.88	<0.01	0.05	0.07	7	20	0.06	0.03	21.1	0.05	1.37	0.6	<1	0.14	2.2
M398654		11.24	<0.01	0.83	4.59	55.5	380	1.41	0.19	2.90	0.60	47.1	5.9	126	16.95	50.5
M398655		11.39	<0.01	1.39	3.89	87.6	300	1.08	0.15	8.01	0.68	38.0	5.2	116	11.00	47.3
M398656		11.00	<0.01	2.99	4.43	41.9	340	1.22	0.16	6.61	0.77	42.1	5.3	157	15.75	53.9
M398657		11.29	<0.01	1.04	4.50	124.5	450	1.20	0.18	5.72	0.44	45.3	6.4	113	11.80	50.3
M398658		11.63	<0.01	1.12	5.31	105.5	390	1.50	0.21	1.65	0.35	56.6	7.3	120	15.10	55.1
M398659		11.39	<0.01	1.07	5.27	106.5	230	1.52	0.20	2.28	0.28	54.7	10.4	113	12.30	61.3
M398660		4.90	<0.01	0.91	5.08	90.1	200	1.43	0.22	2.65	0.30	52.1	8.4	113	11.80	50.0
M398661		10.46	<0.01	0.87	5.10	119.0	210	1.53	0.20	2.30	0.30	50.1	7.3	110	12.90	50.2
M398662		12.54	0.01	0.87	4.70	137.5	330	1.21	0.20	4.72	0.40	44.4	6.6	120	12.55	54.9
M398663		10.92	<0.01	1.16	4.98	131.0	210	1.37	0.19	2.39	0.61	47.7	6.6	129	13.95	56.6
M398664		10.31	0.01	0.97	4.52	283	270	1.26	0.19	2.49	0.47	45.5	6.3	118	11.00	57.2
M398665		11.97	0.29	0.96	5.26	281	260	1.51	0.22	1.17	0.38	54.2	9.8	112	13.75	63.6
M398666		0.26	0.31	0.78	1.89	469	270	0.33	0.23	1.07	0.40	43.0	4.1	80	2.18	41.0
M398667		12.64	1.27	1.11	5.33	570	180	1.59	0.23	0.17	0.38	54.1	7.8	119	12.50	56.4
M398668		6.56	1.26	1.57	5.05	618	230	1.60	0.20	0.31	0.57	49.2	7.5	146	12.50	64.2
M398669		4.67	<0.01	2.44	4.89	655	200	1.74	0.17	2.21	1.38	42.8	7.3	201	13.85	129.0
M398670		4.91	<0.01	2.01	5.21	826	730	1.56	0.20	0.84	1.89	53.9	7.1	157	12.40	64.2
M398671		<0.02	<0.01	2.11	4.97	748	640	1.55	0.18	0.87	2.39	51.9	8.2	148	12.50	67.0
M398672		5.37	0.02	3.49	5.00	838	2660	1.87	0.17	0.46	1.71	47.8	5.7	173	10.25	94.2
M398673		4.54	0.01	2.72	5.34	908	2320	1.78	0.17	0.42	3.04	51.5	5.6	164	10.50	98.2
M398674		2.39	0.04	4.89	5.30	498	2150	1.06	0.20	0.39	2.78	49.7	2.1	203	9.11	45.4
M398675		0.26	4.26	0.87	2.69	421	790	0.66	0.39	9.65	0.57	44.9	4.6	40	2.54	31.7
M398676		3.21	0.11	0.59	1.18	311	730	0.53	0.04	17.80	7.57	10.10	8.4	40	2.70	27.1

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 20- SEP- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12213630**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398641		2.15	12.85	0.20	2.3	0.18	0.052	1.48	29.8	19.7	0.52	91	3.30	0.04	9.0	69.4
M398642		2.16	11.60	0.18	2.1	0.25	0.043	1.35	26.8	17.5	0.52	104	2.57	0.04	8.0	60.8
M398643		2.46	13.25	0.17	2.3	0.25	0.055	1.52	24.4	17.9	0.60	165	4.72	0.05	8.8	64.9
M398644		2.55	13.40	0.20	2.2	0.25	0.056	1.58	27.1	15.4	0.51	116	8.50	0.05	8.9	69.6
M398645		2.64	12.65	0.19	2.1	0.25	0.056	1.51	25.0	15.5	0.54	120	10.75	0.05	8.4	63.8
M398646		2.36	12.10	0.25	2.1	0.17	0.057	1.42	27.7	18.4	0.47	56	7.75	0.05	8.1	131.0
M398647		2.50	10.35	0.20	2.0	0.19	0.034	1.32	25.2	19.6	0.51	61	5.99	0.04	7.6	109.5
M398648		0.48	0.21	0.13	<0.1	<0.01	0.007	0.03	0.5	1.2	12.45	196	0.98	<0.01	0.2	1.8
M398649		2.69	11.20	0.25	2.0	0.19	0.045	1.28	28.6	16.7	0.56	67	9.40	0.04	7.8	104.5
M398650		2.77	12.95	0.23	2.1	0.21	0.052	1.56	29.3	17.4	0.46	64	5.92	0.05	9.0	103.0
M398651		2.52	11.65	0.22	2.0	0.20	0.049	1.37	28.6	16.3	0.51	68	7.17	0.04	8.6	95.6
M398652		1.76	6.16	0.23	1.4	0.12	0.029	0.74	21.6	11.8	1.25	85	8.06	0.03	4.8	63.3
M398653		0.48	0.27	0.18	<0.1	<0.01	0.009	0.04	0.7	1.4	12.60	200	0.13	<0.01	0.2	2.0
M398654		2.36	12.70	0.23	2.2	0.22	0.052	1.61	31.8	13.6	0.46	58	6.74	0.04	8.9	78.9
M398655		2.47	10.40	0.24	2.0	0.27	0.040	1.33	24.7	17.8	0.77	78	5.67	0.03	7.4	76.9
M398656		2.74	11.60	0.26	2.0	0.42	0.048	1.51	31.0	12.9	0.58	73	8.06	0.04	8.2	105.5
M398657		2.64	12.35	0.21	2.1	0.37	0.043	1.64	28.7	13.9	0.64	111	4.66	0.03	8.5	70.2
M398658		2.44	15.30	0.23	2.6	0.40	0.061	1.95	34.9	11.2	0.53	116	3.18	0.04	10.7	70.0
M398659		2.70	15.30	0.23	2.5	0.44	0.045	1.91	32.3	16.4	0.55	139	3.73	0.03	10.7	72.9
M398660		2.62	14.00	0.19	2.5	0.42	0.048	1.91	30.0	15.3	0.56	141	3.62	0.04	10.0	67.7
M398661		2.62	14.10	0.20	2.5	1.08	0.056	1.86	29.7	12.7	0.56	138	3.17	0.04	10.0	67.6
M398662		2.89	12.55	0.21	2.5	1.84	0.048	1.62	27.7	14.9	0.77	109	4.78	0.03	9.5	71.8
M398663		2.67	14.05	0.20	2.4	2.63	0.055	1.84	29.8	11.7	0.60	104	6.92	0.04	9.7	81.7
M398664		2.73	12.85	0.20	2.2	3.46	0.043	1.68	28.2	14.4	0.73	105	5.99	0.03	9.4	79.6
M398665		2.97	15.20	0.25	2.5	6.87	0.054	1.86	31.5	19.1	0.57	96	4.24	0.04	10.8	74.9
M398666		4.08	5.91	0.15	3.8	4.20	0.033	0.44	20.2	26.6	0.06	74	16.45	0.11	8.6	18.3
M398667		2.45	15.20	0.17	2.6	14.2	0.056	1.94	30.3	16.6	0.22	76	4.41	0.04	10.6	74.0
M398668		3.47	13.95	0.20	2.4	16.9	0.051	1.72	31.8	16.3	0.21	155	5.33	0.03	9.6	98.6
M398669		4.48	12.65	0.21	2.2	7.04	0.061	1.67	27.3	15.3	0.21	116	10.20	0.03	8.4	159.5
M398670		4.36	13.90	0.22	2.2	6.48	0.045	1.89	38.7	12.6	0.30	83	4.62	0.04	8.9	111.5
M398671		4.23	13.95	0.22	2.1	6.52	0.056	1.80	37.7	12.8	0.30	95	4.70	0.04	8.9	113.5
M398672		4.15	12.85	0.26	2.4	8.77	0.052	1.67	38.8	13.5	0.19	82	10.30	0.02	8.4	153.5
M398673		4.63	12.95	0.22	2.2	13.0	0.078	1.64	37.2	15.2	0.18	35	11.30	0.02	8.4	173.0
M398674		3.15	14.10	0.26	4.1	13.6	0.039	1.79	42.1	13.5	0.20	30	10.10	0.01	9.6	64.1
M398675		1.85	6.65	0.18	1.5	5.19	0.030	0.85	24.8	53.3	4.95	344	9.31	0.01	5.9	30.7
M398676		1.71	2.36	0.13	0.4	3.46	0.018	0.22	10.7	5.2	10.40	177	46.7	0.01	1.5	134.5



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12213630**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398641		620	11.2	92.9	0.011	1.39	1.61	12.1	6	1.6	224	0.58	0.12	7.0	0.288	0.56
M398642		930	10.3	85.9	0.008	1.43	1.52	12.2	6	1.4	290	0.54	0.08	6.3	0.262	0.51
M398643		930	12.0	94.2	0.012	1.84	2.08	12.6	6	1.5	276	0.62	0.13	6.7	0.295	0.66
M398644		820	12.9	98.2	0.014	2.24	2.60	11.9	6	1.6	276	0.60	0.14	6.4	0.294	0.75
M398645		900	11.6	91.7	0.017	2.35	2.71	12.5	6	1.6	326	0.56	0.14	6.2	0.277	0.70
M398646		1100	10.0	89.4	0.018	2.20	2.16	12.3	14	1.4	399	0.56	0.12	6.1	0.273	0.65
M398647		1250	10.1	84.8	0.020	2.42	2.09	11.1	12	1.4	475	0.51	0.12	5.8	0.248	0.75
M398648		170	1.4	1.3	<0.002	<0.01	0.07	0.2	<1	0.2	45.4	<0.05	<0.05	<0.2	<0.005	<0.02
M398649		1330	10.2	85.0	0.027	2.58	2.51	11.4	17	1.4	516	0.48	0.11	6.0	0.242	0.87
M398650		1090	11.4	103.5	0.013	2.60	2.43	12.8	13	1.6	346	0.58	0.09	7.0	0.276	0.97
M398651		1310	10.2	92.3	0.024	2.36	2.52	10.5	15	1.5	464	0.54	0.12	6.2	0.249	0.88
M398652		990	5.8	45.0	0.026	1.45	1.69	7.8	10	1.0	825	0.29	0.07	3.6	0.133	0.53
M398653		190	1.4	1.4	0.003	0.01	0.08	0.2	<1	0.2	48.4	<0.05	<0.05	<0.2	<0.005	<0.02
M398654		1000	11.7	101.5	0.019	2.13	2.58	11.1	9	1.6	227	0.58	0.08	7.1	0.280	1.25
M398655		1280	9.8	78.9	0.019	2.25	2.85	10.2	12	1.4	606	0.48	0.09	5.6	0.228	1.19
M398656		1570	9.9	93.2	0.019	2.63	2.40	10.4	17	1.5	458	0.53	0.10	6.5	0.254	1.19
M398657		1290	11.6	93.2	0.016	2.25	3.35	12.3	9	1.7	358	0.58	0.10	6.6	0.268	1.47
M398658		600	13.5	123.5	0.015	1.74	2.24	13.2	7	1.8	144.5	0.69	0.14	8.4	0.321	0.98
M398659		920	13.2	109.5	0.013	2.02	2.53	14.4	6	2.4	222	0.69	0.11	8.0	0.319	1.44
M398660		890	12.3	111.0	0.014	1.88	2.22	14.5	6	1.9	201	0.64	0.12	7.8	0.311	1.39
M398661		780	12.9	111.0	0.015	1.96	3.06	14.3	7	1.8	211	0.65	0.07	7.8	0.314	1.37
M398662		1040	11.7	95.3	0.014	2.20	2.75	12.4	9	1.8	325	0.64	0.05	7.3	0.297	3.03
M398663		1090	12.1	107.0	0.019	2.34	4.24	14.5	10	1.7	166.0	0.63	0.10	7.2	0.299	2.93
M398664		1060	11.3	98.2	0.015	2.35	5.22	12.7	8	1.7	196.5	0.60	0.10	6.8	0.281	4.19
M398665		1120	13.7	111.0	0.014	2.63	4.14	14.6	7	2.5	173.0	0.71	0.11	8.2	0.320	7.62
M398666		280	18.5	18.2	0.004	0.87	58.1	5.6	2	2.6	230	0.50	0.15	4.8	0.313	12.90
M398667		650	14.2	113.5	0.013	2.42	2.78	11.0	6	1.9	121.5	0.69	0.13	8.0	0.322	15.20
M398668		1120	14.6	97.9	0.016	2.84	4.27	13.2	10	2.1	161.5	0.61	0.10	7.4	0.301	17.35
M398669		1250	32.1	95.3	0.021	2.75	9.33	15.0	19	1.7	123.0	0.55	0.11	6.6	0.274	12.70
M398670		2130	24.2	104.5	0.019	1.06	6.45	12.6	16	1.8	241	0.59	0.14	8.2	0.295	14.90
M398671		1990	22.3	102.0	0.017	1.09	6.28	12.8	16	1.7	232	0.57	0.11	8.1	0.276	14.35
M398672		2050	59.7	93.1	0.031	0.30	16.00	12.4	16	1.5	367	0.58	0.12	7.8	0.262	21.5
M398673		2060	82.9	86.4	0.022	0.18	22.7	14.8	16	1.7	372	0.56	0.16	8.0	0.263	12.80
M398674		2190	119.0	89.1	0.017	0.15	14.60	8.0	10	1.8	544	0.62	0.10	8.7	0.307	13.15
M398675		530	9.8	48.8	0.011	1.42	97.7	4.7	1	2.7	57.5	0.40	0.17	6.7	0.153	2.50
M398676		570	31.3	10.3	0.007	0.01	8.00	12.6	4	1.3	310	0.10	<0.05	1.4	0.041	1.41





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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12213630**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M398641		5.0	202	1.2	26.3	192	79.1
M398642		4.7	195	1.1	24.6	166	70.7
M398643		5.5	230	1.2	27.6	171	76.7
M398644		6.9	254	1.2	24.8	192	73.3
M398645		7.5	254	1.1	25.8	179	70.6
M398646		6.8	220	1.1	30.8	388	71.4
M398647		7.3	214	1.1	29.0	355	66.2
M398648		0.8	3	0.1	0.8	13	<0.5
M398649		8.7	215	1.0	31.2	290	75.8
M398650		7.0	238	1.3	31.5	306	71.9
M398651		7.7	226	1.1	30.8	281	71.4
M398652		10.0	164	0.6	29.9	172	59.6
M398653		0.9	2	0.1	1.0	13	<0.5
M398654		7.2	242	1.5	26.1	244	72.6
M398655		6.1	207	2.3	26.3	261	70.2
M398656		5.9	206	1.2	31.7	323	75.3
M398657		6.2	224	2.1	29.0	194	78.7
M398658		6.1	250	1.7	25.5	183	88.3
M398659		5.9	240	2.1	31.1	143	90.1
M398660		5.9	239	1.9	30.4	155	83.7
M398661		5.4	240	2.6	27.6	181	88.2
M398662		6.3	231	2.4	28.2	198	81.9
M398663		7.1	253	2.6	29.4	250	83.6
M398664		6.5	219	3.3	28.1	218	80.3
M398665		6.1	240	3.2	30.6	204	89.8
M398666		6.4	53	39.0	10.3	28	124.5
M398667		5.8	250	5.4	29.9	189	88.6
M398668		7.0	244	5.5	44.6	499	83.5
M398669		7.4	225	4.0	58.4	967	74.9
M398670		6.0	270	4.6	50.4	731	82.1
M398671		5.8	255	4.2	54.2	788	79.1
M398672		7.6	257	5.8	50.6	705	85.8
M398673		8.4	263	6.5	51.3	772	79.3
M398674		9.9	284	8.9	41.3	314	89.7
M398675		5.7	93	72.9	14.6	68	50.7
M398676		5.8	131	3.1	22.9	714	14.6



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12213630**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12216609**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 355  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12216609**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398677		2.29	0.06	0.16	0.15	80	120	0.45	0.01	29.8	1.33	2.50	0.7	5	0.16	2.3
M398678		5.44	0.29	0.57	1.18	326	1680	0.40	0.05	16.85	3.58	15.55	4.5	65	2.54	18.4
M398679		2.80	0.32	1.63	5.12	703	2110	1.17	0.17	0.42	4.02	54.4	5.3	167	8.35	57.9
M398680		4.09	0.18	1.45	5.21	114.0	2420	0.97	0.20	0.23	1.23	57.4	1.3	123	10.00	15.5
M398681		5.37	0.08	1.40	4.99	570	4430	0.86	0.20	0.16	4.51	59.6	1.7	108	8.37	11.0
M398682		5.36	0.06	1.27	4.62	633	4360	0.79	0.21	0.20	4.58	56.4	2.3	117	7.49	28.9
M398683		1.73	0.07	1.45	4.54	658	6320	0.80	0.21	0.23	5.26	58.2	2.5	127	7.49	36.2
M398684		4.70	0.07	1.72	4.49	628	4270	0.77	0.19	0.25	4.49	58.5	3.5	119	8.63	21.7
M398685		3.26	0.04	2.45	5.07	937	4510	1.55	0.19	0.63	9.20	47.4	7.7	168	8.18	166.0
M398686		3.49	0.01	2.83	4.25	680	3390	1.45	0.18	0.63	9.06	36.8	5.8	175	6.65	104.5
M398687		4.43	0.01	1.56	5.31	428	3000	1.28	0.23	0.41	6.00	56.9	3.1	127	11.55	29.5
M398688		0.26	16.10	1.18	1.87	988	150	0.40	0.54	15.15	0.64	30.8	3.7	35	2.23	62.8
M398689		4.27	0.01	1.01	5.57	32.6	2440	1.47	0.24	0.14	1.01	69.1	0.7	89	13.15	24.7
M398690		4.49	0.01	1.34	5.31	37.1	3180	1.63	0.22	0.18	1.07	69.9	0.5	96	11.40	30.0
M398691		2.69	0.01	1.22	5.40	38.9	3380	2.73	0.21	0.26	1.18	64.1	0.5	139	12.65	60.2
M398692		7.23	<0.01	0.08	0.19	25	270	0.53	0.01	36.8	1.51	2.92	0.3	2	0.34	7.4
M398693		6.90	<0.01	0.27	0.05	<5	20	0.06	0.01	20.7	0.05	1.03	0.6	<1	0.15	2.6
M398694		8.16	<0.01	0.18	0.38	10	330	0.50	0.02	36.3	1.90	4.53	0.3	3	0.98	11.4
M398695		7.63	<0.01	0.08	0.21	19	460	0.52	0.01	37.5	3.18	2.67	0.3	<1	0.38	14.7
M398696		9.98	<0.01	0.04	0.10	17	120	0.31	0.01	37.6	2.17	1.06	0.3	<1	0.18	6.3
M398697		9.73	0.01	0.06	0.18	20	80	0.68	0.01	37.3	2.40	1.90	0.3	<1	0.35	10.2
M398698		11.30	<0.01	0.07	0.06	41	70	0.18	<0.01	38.6	1.16	0.79	0.2	<1	0.14	2.6
M398699		11.84	<0.01	0.04	0.08	24	100	0.23	<0.01	38.5	0.69	1.00	0.3	<1	0.16	1.8
M398700		<0.02	<0.01	0.04	0.08	29	100	0.23	0.01	37.5	0.70	0.95	0.2	<1	0.17	1.7
M398451		11.16	<0.01	0.02	0.05	6	80	0.10	<0.01	38.3	0.28	0.73	0.3	<1	0.12	1.1
M398452		6.07	<0.01	0.03	0.05	18	110	0.11	0.01	37.0	0.82	0.86	0.2	<1	0.14	1.9
M398453		6.08	<0.01	0.03	0.06	16	110	0.14	0.01	37.6	1.64	0.70	0.3	<1	0.14	3.3
M398454		7.44	<0.01	0.03	0.07	12	140	0.20	0.01	37.0	0.56	0.99	0.4	<1	0.18	2.1
M398455		7.47	<0.01	0.02	0.04	8	180	0.08	<0.01	37.1	0.13	0.48	0.2	<1	0.09	0.9
M398456		7.52	<0.01	0.02	0.03	16	250	0.07	<0.01	37.4	0.02	0.37	0.2	<1	0.06	0.7
M398457		6.94	<0.01	0.03	0.03	<5	30	<0.05	0.02	21.0	0.06	0.88	0.6	<1	0.07	1.5
M398458		7.01	0.01	0.03	0.05	41	990	0.17	0.01	36.9	0.44	0.71	0.4	<1	0.15	2.5
M398459		0.26	4.40	0.80	2.57	361	760	0.69	0.41	9.64	0.57	42.8	4.8	38	2.40	32.2
M398460		1.65	0.08	0.11	0.05	38	70	0.28	0.01	37.5	1.19	0.60	0.7	<1	0.11	3.1
M398461		3.09	<0.01	2.35	3.17	119.0	3360	1.23	0.14	1.04	3.94	33.0	5.3	176	10.25	67.1
M398462		2.74	<0.01	2.36	3.75	162.0	2310	1.47	0.17	0.58	3.29	36.3	6.5	173	11.15	86.3

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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12216609**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398677		0.23	0.45	0.11	0.1	7.02	0.010	0.04	3.4	1.7	3.51	318	9.34	0.01	0.2	11.9
M398678		1.26	3.27	0.13	0.6	3.57	0.026	0.37	16.4	5.8	8.68	153	52.2	0.01	2.2	89.8
M398679		3.26	13.80	0.18	2.4	2.73	0.058	1.63	38.8	20.7	0.30	107	20.2	0.02	8.9	145.0
M398680		0.73	14.60	0.22	2.6	2.43	0.037	1.85	39.3	17.0	0.31	22	4.36	0.02	10.0	30.7
M398681		1.70	13.80	0.21	2.5	4.70	0.028	1.81	39.1	16.2	0.27	26	16.85	0.02	9.3	38.6
M398682		1.91	13.45	0.20	2.6	1.31	0.034	1.67	38.7	15.3	0.27	39	12.30	0.01	9.9	58.8
M398683		2.04	13.25	0.18	2.6	1.48	0.037	1.65	41.4	16.0	0.28	46	15.40	0.01	10.0	62.7
M398684		2.11	13.95	0.20	2.4	1.65	0.032	1.54	40.7	17.9	0.25	30	19.00	0.01	9.7	105.5
M398685		3.24	13.10	0.18	2.0	2.07	0.125	1.31	45.0	22.5	0.26	37	64.3	0.01	8.1	254
M398686		2.06	10.80	0.16	1.8	2.57	0.075	1.11	33.1	18.1	0.24	35	43.3	<0.01	6.6	181.5
M398687		1.33	15.15	0.16	3.1	1.99	0.045	1.88	37.3	23.3	0.36	23	18.15	0.01	15.7	60.8
M398688		3.61	3.88	0.11	0.8	6.01	0.058	0.39	16.3	41.9	0.72	458	12.35	0.01	3.4	22.4
M398689		0.33	15.90	0.18	3.3	0.70	0.030	2.13	42.8	22.4	0.38	14	0.82	0.02	20.1	8.4
M398690		0.27	16.00	0.18	3.0	0.73	0.032	1.83	43.9	24.1	0.34	12	1.45	0.02	18.6	10.4
M398691		0.27	16.20	0.20	2.7	0.63	0.152	1.74	41.2	25.3	0.32	13	0.53	0.01	14.0	16.7
M398692		0.06	0.59	0.15	0.1	0.19	0.012	0.06	2.8	1.0	0.38	296	0.93	<0.01	0.4	3.1
M398693		0.44	0.17	0.12	<0.1	<0.01	0.010	0.02	0.5	1.1	12.75	191	0.14	0.01	0.2	1.8
M398694		0.04	1.01	0.15	0.2	0.17	0.012	0.12	3.6	2.0	0.14	231	0.52	<0.01	0.9	3.1
M398695		0.04	0.51	0.20	0.1	0.08	0.009	0.05	2.6	1.4	0.18	210	0.59	<0.01	0.3	5.8
M398696		0.04	0.24	0.16	<0.1	0.08	0.008	0.03	0.7	0.8	0.16	78	0.36	<0.01	0.1	5.1
M398697		0.06	0.47	0.14	0.1	0.15	0.008	0.05	1.7	1.2	0.13	298	0.58	<0.01	0.3	3.4
M398698		0.05	0.19	0.14	<0.1	0.31	0.009	0.02	0.6	0.5	0.14	159	0.58	<0.01	0.1	2.0
M398699		0.04	0.25	0.16	<0.1	0.08	0.008	0.03	0.6	0.6	0.25	32	0.34	<0.01	0.2	2.1
M398700		0.04	0.23	0.16	<0.1	0.08	0.007	0.04	0.6	0.5	0.25	31	0.34	<0.01	0.2	2.0
M398451		0.04	0.15	0.16	<0.1	0.05	0.008	0.02	0.6	0.5	0.23	34	0.31	<0.01	0.1	1.2
M398452		0.04	0.18	0.15	<0.1	0.11	0.007	0.02	0.5	0.5	0.23	22	0.29	<0.01	0.1	1.9
M398453		0.05	0.17	0.16	<0.1	0.28	0.008	0.02	<0.5	0.5	0.20	30	0.41	<0.01	0.1	2.1
M398454		0.07	0.20	0.19	<0.1	0.12	0.009	0.03	0.6	0.6	0.22	20	0.75	<0.01	0.2	2.5
M398455		0.03	0.12	0.14	<0.1	0.01	0.008	0.02	<0.5	0.4	0.28	14	1.35	<0.01	0.1	1.6
M398456		0.02	0.09	0.14	<0.1	0.01	0.007	0.01	<0.5	0.4	0.22	14	0.70	<0.01	0.1	1.1
M398457		0.44	0.13	0.13	<0.1	<0.01	0.014	0.01	<0.5	0.7	12.80	199	0.10	<0.01	0.1	1.7
M398458		0.04	0.16	0.18	<0.1	0.53	0.010	0.02	0.5	0.4	0.20	75	0.36	<0.01	0.1	1.9
M398459		1.75	6.27	0.18	1.3	5.28	0.030	0.79	24.5	53.8	4.80	329	9.84	0.01	5.3	31.8
M398460		0.09	0.18	0.16	<0.1	9.44	0.009	0.02	<0.5	0.4	0.17	311	0.47	<0.01	0.1	3.9
M398461		2.31	8.33	0.20	1.4	1.06	0.047	1.10	28.6	29.0	0.17	49	5.70	0.01	6.0	115.5
M398462		3.05	9.81	0.20	1.6	0.96	0.050	1.37	28.9	24.2	0.19	94	6.51	0.03	6.8	108.0

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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12216609**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398677		110	8.6	1.5	0.021	<0.01	1.10	21.5	1	0.4	79.5	<0.05	<0.05	0.2	0.008	0.24
M398678		650	32.5	16.0	0.003	0.17	4.87	11.4	2	1.6	318	0.14	<0.05	1.9	0.066	1.38
M398679		1410	30.0	73.6	0.004	0.07	9.95	8.7	5	2.2	352	0.55	0.17	7.2	0.285	3.72
M398680		1030	22.8	85.3	<0.002	0.10	2.96	8.2	2	2.0	307	0.63	0.13	8.4	0.309	5.31
M398681		1750	19.2	82.3	0.002	0.17	7.66	7.1	2	1.7	421	0.62	0.16	9.2	0.297	6.09
M398682		1040	18.2	75.5	<0.002	0.10	8.06	7.1	2	1.9	258	0.63	0.14	7.8	0.314	4.02
M398683		1250	19.7	77.1	0.002	0.15	9.16	6.9	3	2.0	319	0.63	0.10	7.7	0.300	3.80
M398684		1280	20.8	72.3	<0.002	0.08	12.25	6.3	2	2.1	298	0.57	0.08	7.6	0.284	3.50
M398685		2970	26.5	59.4	0.002	0.12	16.00	8.1	6	2.9	845	0.51	0.23	6.6	0.226	2.70
M398686		3440	17.2	52.2	0.005	0.07	14.00	9.9	6	3.1	881	0.39	0.15	6.2	0.195	2.41
M398687		2320	15.6	81.3	<0.002	0.04	9.02	7.4	3	2.2	464	0.93	0.11	9.1	0.330	3.23
M398688		670	20.7	23.0	0.004	1.88	155.0	4.1	3	1.8	45.7	0.22	0.42	3.6	0.110	3.45
M398689		1060	14.9	89.3	<0.002	0.02	0.99	7.7	1	2.1	297	1.19	0.15	10.1	0.386	2.58
M398690		1190	18.6	79.7	<0.002	0.04	1.07	7.2	1	2.4	362	1.06	0.15	9.9	0.359	2.04
M398691		1420	17.6	78.8	<0.002	0.04	0.42	7.7	2	2.3	449	0.86	0.07	9.2	0.315	1.46
M398692		120	2.0	2.5	0.002	0.01	0.38	3.7	1	<0.2	94.9	<0.05	<0.05	0.3	0.012	0.10
M398693		190	1.2	0.9	<0.002	<0.01	0.06	0.1	<1	<0.2	44.0	<0.05	<0.05	<0.2	<0.005	<0.02
M398694		170	2.1	4.9	0.002	<0.01	0.26	3.9	<1	0.2	93.1	<0.05	<0.05	0.6	0.021	0.16
M398695		100	1.3	2.0	0.002	0.01	0.43	2.7	1	<0.2	111.5	<0.05	<0.05	0.3	0.009	0.19
M398696		30	0.9	1.2	0.002	<0.01	0.53	1.0	1	<0.2	210	<0.05	<0.05	<0.2	0.005	0.09
M398697		80	1.5	2.1	<0.002	<0.01	0.66	4.2	1	<0.2	67.2	<0.05	<0.05	0.3	0.009	0.08
M398698		20	3.2	0.9	<0.002	<0.01	1.19	3.3	<1	<0.2	206	<0.05	<0.05	<0.2	<0.005	0.08
M398699		20	1.4	1.4	<0.002	0.01	0.40	0.3	<1	<0.2	261	<0.05	<0.05	<0.2	0.005	0.06
M398700		20	1.3	1.4	<0.002	0.01	0.42	0.2	<1	<0.2	256	<0.05	<0.05	<0.2	0.005	0.06
M398451		20	<0.5	0.9	<0.002	0.01	0.16	0.2	1	<0.2	239	<0.05	<0.05	<0.2	<0.005	0.05
M398452		20	<0.5	1.0	<0.002	<0.01	0.34	0.2	1	<0.2	242	<0.05	<0.05	<0.2	<0.005	0.04
M398453		20	<0.5	0.9	<0.002	<0.01	0.50	0.2	1	<0.2	232	<0.05	<0.05	<0.2	<0.005	0.03
M398454		20	1.7	1.2	<0.002	0.02	0.52	0.2	1	<0.2	264	<0.05	<0.05	<0.2	<0.005	0.04
M398455		20	<0.5	0.7	<0.002	0.01	0.20	0.1	1	<0.2	258	<0.05	<0.05	<0.2	<0.005	0.06
M398456		10	<0.5	0.5	0.005	0.01	0.11	0.1	<1	<0.2	246	<0.05	<0.05	<0.2	<0.005	0.06
M398457		160	1.1	0.5	<0.002	<0.01	0.08	0.2	1	<0.2	42.0	<0.05	<0.05	<0.2	<0.005	<0.02
M398458		20	0.5	0.9	<0.002	0.02	0.23	1.6	1	<0.2	197.5	<0.05	<0.05	<0.2	<0.005	0.06
M398459		510	8.4	42.7	0.010	1.34	89.7	4.7	3	2.6	53.5	0.34	0.26	5.6	0.143	2.24
M398460		30	2.0	0.8	<0.002	<0.01	1.27	0.3	1	<0.2	214	<0.05	0.05	<0.2	<0.005	0.16
M398461		2550	9.8	60.8	0.010	0.18	3.79	9.6	10	1.1	181.5	0.36	0.38	5.0	0.177	0.97
M398462		2030	12.3	67.2	0.014	0.20	4.13	10.3	11	1.1	217	0.43	0.35	5.8	0.212	1.27



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12216609**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M398677		12.4	55	0.8	13.8	54	4.3
M398678		6.1	126	5.3	13.1	320	21.1
M398679		8.9	332	8.1	41.4	840	84.7
M398680		7.4	249	6.8	28.8	124	86.7
M398681		6.3	283	6.2	23.5	169	82.0
M398682		6.7	292	6.3	23.4	231	85.7
M398683		7.3	332	6.0	22.6	255	86.1
M398684		7.8	291	6.2	21.4	365	84.7
M398685		15.7	423	6.2	40.3	1130	70.3
M398686		16.3	514	5.0	45.8	787	63.6
M398687		9.5	515	4.6	30.8	330	107.5
M398688		3.2	111	222	15.8	76	29.1
M398689		6.7	457	4.6	27.9	67	110.0
M398690		8.9	436	4.9	26.5	54	110.5
M398691		9.6	434	4.4	23.7	52	92.3
M398692		6.0	39	0.3	12.3	17	4.5
M398693		0.5	1	0.1	0.7	14	<0.5
M398694		5.0	50	0.4	11.6	16	6.5
M398695		4.2	27	0.2	9.5	28	3.3
M398696		1.7	10	0.2	4.8	24	1.7
M398697		4.1	35	0.3	13.2	19	3.5
M398698		2.1	14	0.1	7.5	34	1.6
M398699		1.0	4	0.1	2.1	21	1.5
M398700		1.0	4	0.1	1.9	22	1.5
M398451		0.9	3	0.1	2.5	8	1.1
M398452		1.0	4	0.1	1.5	20	1.1
M398453		0.8	6	0.1	2.0	25	1.8
M398454		0.8	5	0.1	1.0	25	1.2
M398455		0.7	2	0.1	0.6	16	0.7
M398456		0.8	1	<0.1	0.5	5	0.6
M398457		0.5	2	0.1	0.7	13	<0.5
M398458		1.4	6	0.1	2.8	17	1.1
M398459		4.6	88	62.3	13.8	67	50.5
M398460		0.9	12	0.4	1.0	33	0.9
M398461		10.7	287	4.0	45.4	418	59.4
M398462		6.3	300	6.1	40.9	482	58.8



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12216609**

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	REE's may not be totally soluble in this method. Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)





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**CERTIFICATE WH12216660**

Project: Rackla Gold - Area C  
 P.O. No.: 12- 361  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12216660**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398463		1.39	<0.01	1.73	3.75	255	2080	1.50	0.17	0.37	1.95	34.7	5.5	131	9.90	80.6
M398464		1.45	0.01	1.71	4.25	229	1460	1.00	0.17	0.32	1.26	38.9	4.3	149	11.30	38.7
M398465		5.22	<0.01	1.62	3.57	278	2480	1.39	0.15	1.33	1.59	31.5	4.8	150	7.32	80.9
M398466		3.25	0.01	2.20	3.85	591	3550	2.78	0.15	2.31	3.93	32.4	9.6	199	8.40	189.5
M398467		2.09	0.01	0.14	0.26	112.0	290	0.63	0.01	29.0	3.18	4.65	3.6	5	0.35	19.3
M398468		6.93	<0.01	0.02	0.04	<5.0	40	<0.05	0.01	21.7	0.06	1.21	1.1	<1	0.12	2.0
M398469		10.37	0.03	0.02	0.04	29.0	190	0.42	<0.01	30.5	0.39	2.28	1.1	<1	0.06	4.3
M398470		1.91	0.12	0.14	0.05	84.0	180	0.42	0.03	29.2	<0.50	2.36	1.2	6	0.09	16.6
M398471		1.73	0.82	0.10	0.42	281	310	1.12	0.01	25.1	8.48	6.49	22.4	10	1.06	50.1
M398472		5.90	0.40	0.05	0.09	74.0	200	0.36	<0.01	30.2	0.56	2.60	1.7	3	0.13	4.8
M398473		3.82	1.69	0.50	1.50	209	690	0.50	0.05	23.9	3.17	16.35	4.2	51	3.21	17.8
M398474		7.80	0.07	1.18	4.39	299	2020	1.50	0.17	3.31	2.40	41.6	5.8	130	11.85	62.7
M398475		9.12	0.61	0.04	0.06	47.0	170	0.28	<0.01	29.6	0.28	2.06	0.9	<1	0.14	2.1
M398476		0.27	0.27	0.77	1.89	483	1010	0.37	0.23	1.08	0.39	36.8	4.0	78	2.06	44.7
M398477		5.30	0.16	0.04	0.10	53.0	290	0.24	0.01	31.6	0.38	2.80	1.0	2	0.14	2.2
M398478		7.49	0.01	0.09	0.16	55.0	1050	0.43	0.01	27.6	0.33	3.24	1.1	7	0.30	5.2
M398479		7.56	0.02	1.47	4.37	133.0	980	1.39	0.16	6.49	4.42	42.8	5.8	154	9.85	58.0
M398480		10.19	<0.01	0.74	3.86	106.0	1010	1.17	0.14	6.82	0.51	37.4	5.2	98	10.55	47.8
M398481		9.45	<0.01	0.78	4.16	103.5	1210	1.27	0.16	5.42	0.54	39.6	5.1	116	12.10	57.3
M398482		4.87	<0.01	0.76	4.18	92.1	1180	1.28	0.15	5.41	0.49	39.6	5.2	117	12.15	57.5
M398483		9.38	0.12	0.74	4.50	119.5	860	1.40	0.17	3.65	0.42	43.0	6.6	115	12.75	55.0
M398484		11.19	0.10	0.90	4.63	93.3	830	1.37	0.18	3.85	0.47	41.2	6.5	113	13.35	58.2
M398485		10.37	<0.01	0.92	5.12	93.9	970	1.43	0.19	2.05	0.34	47.3	7.8	108	16.60	58.7
M398486		10.20	<0.01	0.93	4.76	105.5	940	1.26	0.18	4.32	0.64	43.3	6.5	120	13.10	61.9
M398487		10.65	<0.01	0.87	4.55	97.5	900	1.29	0.18	4.20	0.44	43.3	5.7	121	14.00	58.9
M398488		11.14	<0.01	0.83	4.53	111.5	860	1.30	0.17	4.28	0.49	44.3	6.4	119	14.60	63.1
M398489		0.26	16.45	0.99	1.93	1050	500	0.34	0.57	15.10	0.64	33.7	3.7	33	2.48	64.0
M398490		10.40	0.01	0.79	5.10	123.0	1120	1.49	0.21	2.27	0.39	51.1	8.3	105	14.45	56.0
M398491		10.13	0.01	0.94	5.45	281	900	1.66	0.24	0.97	0.98	52.8	9.3	111	14.85	59.8
M398492		5.18	0.01	1.10	5.47	522	970	1.57	0.22	0.16	1.11	52.3	8.4	120	13.05	60.3
M398493		4.02	0.17	0.87	4.41	2910	2000	1.14	0.18	1.52	0.58	38.3	6.7	106	11.30	56.7
M398494		<0.02	0.18	0.89	4.49	2890	2080	1.21	0.19	1.58	0.54	40.0	6.8	109	11.70	57.8
M398495		3.34	<0.01	1.20	4.05	2620	900	1.15	0.17	1.13	0.67	36.9	6.1	119	12.20	57.5
M398496		4.33	<0.01	1.20	3.73	287	1330	1.22	0.15	5.06	0.68	36.0	4.9	123	11.30	59.5
M398497		4.37	0.40	1.03	4.09	281	940	1.27	0.17	3.39	0.76	35.9	5.9	123	11.40	65.3
M398498		6.98	<0.01	0.01	0.06	<5.0	30	0.05	0.02	21.1	0.07	1.32	1.0	<1	0.17	2.8

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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12216660**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398463		3.54	10.00	0.15	1.7	1.1	0.044	1.41	25.8	35.4	0.18	65	10.65	0.02	7.0	98.4
M398464		2.32	11.60	0.16	1.9	1.3	0.029	1.64	28.8	59.6	0.17	37	7.60	0.03	8.5	71.4
M398465		2.75	8.88	0.15	1.6	1.3	0.036	1.31	24.4	68.0	0.12	68	7.67	0.01	6.6	115.5
M398466		4.93	7.85	0.24	1.5	1.5	0.070	1.14	29.1	56.3	0.33	100	18.80	<0.01	5.9	317
M398467		1.33	0.51	0.05	0.1	1.1	0.006	0.06	5.9	1.4	5.85	199	10.60	0.01	0.3	63.1
M398468		0.50	0.18	0.05	<0.1	<0.1	<0.005	0.02	0.6	0.9	12.85	223	0.75	<0.01	0.2	4.3
M398469		0.18	0.18	0.06	<0.1	0.2	<0.005	0.01	4.0	1.0	6.88	164	24.0	0.01	0.2	16.5
M398470		0.18	0.20	0.09	<0.1	12.8	0.005	0.01	4.2	0.8	7.10	132	582	0.01	0.2	55.7
M398471		4.46	0.92	0.10	0.2	3.1	0.010	0.10	9.7	1.9	6.02	538	59.7	0.01	0.6	273
M398472		0.30	0.26	0.05	<0.1	0.8	0.005	0.02	4.1	1.0	6.54	241	32.0	0.01	0.2	45.4
M398473		1.39	3.78	0.08	0.7	5.9	0.017	0.61	12.3	5.5	5.40	376	84.5	0.01	2.6	78.4
M398474		2.68	11.35	0.15	2.1	6.3	0.041	1.75	30.7	21.8	0.27	99	12.05	0.02	8.1	116.5
M398475		0.22	0.22	<0.05	<0.1	1.1	0.014	0.02	3.6	1.1	6.37	317	4.49	0.01	0.2	10.2
M398476		3.93	5.55	0.09	3.5	3.7	0.032	0.44	19.7	30.8	0.06	74	16.50	0.11	7.9	18.4
M398477		0.27	0.31	<0.05	0.1	1.01	<0.005	0.03	4.3	1.0	5.11	194	14.35	0.01	0.3	13.2
M398478		0.31	0.46	0.06	0.1	0.48	0.005	0.06	4.0	1.2	8.30	153	38.6	<0.01	0.4	18.0
M398479		2.58	11.40	0.14	2.2	2.91	0.042	1.72	30.1	13.3	1.03	108	21.6	0.02	8.5	103.0
M398480		2.99	9.98	0.12	1.9	1.5	0.037	1.50	25.6	12.9	1.33	119	6.10	0.02	7.6	64.0
M398481		2.41	10.90	0.12	2.2	2.32	0.038	1.64	28.1	12.5	0.65	84	5.89	0.03	8.2	78.1
M398482		2.44	10.95	0.12	2.1	2.32	0.041	1.66	27.9	11.8	0.68	82	5.02	0.03	8.3	75.6
M398483		2.70	11.70	0.14	2.2	3.93	0.038	1.78	29.1	14.2	0.72	79	3.67	0.03	8.6	71.8
M398484		2.46	12.25	0.14	2.2	1.93	0.041	1.79	26.5	13.0	0.70	104	6.76	0.03	9.1	74.8
M398485		2.83	13.90	0.15	2.4	0.99	0.048	1.97	29.2	17.8	0.66	114	3.29	0.03	9.7	74.4
M398486		2.58	12.35	0.11	2.3	0.97	0.044	1.84	28.4	18.1	0.58	104	4.65	0.03	8.9	79.5
M398487		2.52	11.95	0.14	2.2	0.87	0.046	1.75	29.6	14.5	0.57	81	3.52	0.03	9.1	77.7
M398488		2.70	11.95	0.13	2.2	0.91	0.043	1.76	30.6	14.6	0.65	89	5.82	0.03	8.9	83.8
M398489		3.65	3.76	0.09	0.9	5.7	0.055	0.41	19.5	41.1	0.74	472	14.00	0.01	3.7	23.0
M398490		2.72	14.35	0.14	2.5	1.08	0.051	1.95	32.1	16.3	0.71	128	4.07	0.03	10.2	68.7
M398491		2.69	15.75	0.15	2.5	1.86	0.049	2.07	33.0	17.9	0.39	103	5.79	0.03	10.5	76.9
M398492		2.52	14.90	0.18	2.7	3.39	0.039	2.02	32.4	23.0	0.24	52	7.38	0.03	10.3	88.4
M398493		4.07	12.10	0.19	2.3	6.36	0.040	1.69	23.8	18.6	0.65	63	6.97	0.02	8.3	79.2
M398494		4.11	12.10	0.19	2.3	6.51	0.040	1.73	24.1	18.6	0.68	65	7.22	0.02	8.4	80.1
M398495		3.71	10.90	0.16	2.1	2.36	0.042	1.54	24.0	16.2	0.38	43	7.17	0.03	7.8	91.4
M398496		2.12	9.96	0.14	1.9	2.22	0.038	1.36	26.2	11.8	0.44	74	9.51	0.03	7.6	99.7
M398497		1.99	10.90	0.13	2.0	8.8	0.038	1.54	25.1	10.9	0.45	59	10.30	0.03	7.8	105.5
M398498		0.46	0.24	0.05	<0.1	<0.1	<0.005	0.03	0.7	1.0	12.45	205	0.16	<0.01	0.2	3.9

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 Account: RCMP

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12216660**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398463		2060	14.2	75.0	0.021	0.25	4.20	9.6	9	1.1	275	0.46	0.20	6.6	0.222	1.39
M398464		670	15.9	86.5	0.013	0.21	3.80	7.5	13	1.3	145.5	0.56	0.21	6.6	0.261	1.67
M398465		1710	11.2	62.4	0.026	0.15	4.37	9.1	11	1.0	301	0.44	0.17	5.5	0.211	1.33
M398466		4080	19.0	57.0	0.023	0.18	5.50	15.8	19	1.1	658	0.40	0.29	6.2	0.177	1.18
M398467		470	14.3	2.8	0.009	0.02	1.74	1.7	3	0.3	523	<0.05	<0.05	0.4	0.007	0.21
M398468		180	1.3	0.9	<0.002	0.01	<0.05	0.2	1	<0.2	50.7	<0.05	<0.05	<0.2	<0.005	<0.02
M398469		130	3.2	0.5	0.080	0.02	0.56	0.3	2	0.2	491	<0.05	<0.05	<0.2	<0.005	0.23
M398470		70	64.8	0.7	0.733	0.15	3.76	0.3	10	2.3	461	<0.05	0.07	<0.2	<0.005	2.62
M398471		1010	13.2	5.3	0.008	0.01	9.08	3.5	5	0.7	351	<0.05	<0.05	0.6	0.014	0.86
M398472		140	4.3	1.1	0.230	0.04	0.96	0.5	5	0.3	420	<0.05	<0.05	0.2	<0.005	0.48
M398473		650	26.7	26.5	0.055	0.07	3.81	4.4	8	1.5	416	0.17	0.05	2.5	0.075	1.25
M398474		830	17.8	83.8	0.054	0.24	3.07	10.7	16	1.3	189.5	0.55	0.07	6.9	0.270	2.81
M398475		90	1.8	0.9	0.015	0.03	0.43	0.6	2	<0.2	445	<0.05	<0.05	<0.2	<0.005	0.79
M398476		290	17.3	17.9	0.002	0.88	55.6	5.0	3	2.4	234	0.51	0.12	4.4	0.315	11.55
M398477		160	3.8	1.4	0.022	0.02	0.71	0.5	3	0.3	530	<0.05	<0.05	0.2	0.005	0.42
M398478		180	14.4	2.7	0.063	0.05	1.90	0.7	3	0.5	397	<0.05	<0.05	0.3	0.008	0.35
M398479		1550	15.5	79.2	0.055	1.88	5.64	10.8	15	1.6	242	0.59	0.10	6.7	0.262	5.51
M398480		1340	11.0	74.2	0.013	2.08	1.96	9.6	8	1.2	319	0.50	0.07	5.9	0.242	5.44
M398481		870	10.0	82.2	0.013	1.93	1.90	9.9	9	1.3	231	0.56	0.08	6.4	0.268	4.48
M398482		850	9.8	82.2	0.012	2.00	1.79	9.9	9	1.3	237	0.55	0.06	6.3	0.271	4.58
M398483		1100	10.2	87.7	0.009	2.42	1.56	11.3	8	1.5	184.0	0.58	0.07	7.0	0.285	5.63
M398484		820	11.1	93.4	0.015	2.21	2.05	10.7	8	1.4	181.0	0.60	0.09	6.8	0.280	3.26
M398485		720	12.6	106.5	0.009	2.68	1.99	12.8	7	1.6	137.0	0.65	0.09	7.5	0.308	3.31
M398486		730	11.8	96.1	0.012	2.44	3.03	11.2	9	1.5	203	0.61	0.09	7.1	0.283	3.14
M398487		890	10.5	93.9	0.009	2.35	4.16	11.2	9	1.4	254	0.60	0.08	6.9	0.287	3.48
M398488		1030	11.1	94.1	0.013	2.32	3.17	11.1	9	1.4	255	0.60	0.09	7.1	0.288	3.54
M398489		690	22.5	27.0	0.008	1.95	158.5	3.5	3	2.0	51.1	0.26	0.34	4.1	0.115	3.70
M398490		920	14.0	109.0	0.012	2.08	3.59	13.2	7	1.6	164.5	0.67	0.11	7.9	0.314	2.76
M398491		930	25.3	113.0	0.015	2.63	7.28	11.5	8	1.7	103.0	0.70	0.12	8.3	0.327	2.97
M398492		880	27.8	109.5	0.023	2.63	7.98	10.6	10	1.7	154.5	0.68	0.12	7.9	0.315	4.21
M398493		2340	22.8	86.9	0.015	4.30	8.47	10.0	10	1.4	245	0.56	0.07	6.2	0.263	15.85
M398494		2410	27.6	88.9	0.015	4.33	9.06	10.2	10	1.5	251	0.58	0.07	6.7	0.265	15.85
M398495		920	12.5	81.4	0.020	3.94	9.82	7.6	9	1.3	103.5	0.54	0.09	6.0	0.253	8.86
M398496		710	12.2	76.8	0.029	1.98	2.14	10.3	11	1.2	241	0.50	0.06	5.8	0.237	3.72
M398497		620	13.6	84.9	0.024	1.85	2.22	10.5	12	1.4	221	0.53	0.06	6.2	0.250	8.02
M398498		220	1.4	1.3	<0.002	0.01	0.05	0.2	1	<0.2	48.6	<0.05	<0.05	<0.2	<0.005	0.03

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 Finalized Date: 4- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12216660**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M398463		7.3	253	4.1	27.6	384	63.2
M398464		4.0	292	3.5	21.1	237	71.7
M398465		5.9	272	3.8	34.5	383	63.6
M398466		18.4	332	4.5	101.0	1040	54.7
M398467		4.0	38	0.7	22.4	496	4.0
M398468		1.0	3	0.1	1.0	18	<0.5
M398469		4.5	25	0.7	7.7	46	1.3
M398470		4.8	55	4.7	6.6	13	1.5
M398471		5.3	76	1.8	53.5	2370	9.7
M398472		5.7	38	0.7	10.2	85	2.2
M398473		7.6	151	3.7	17.9	344	27.1
M398474		6.8	223	4.6	30.4	455	80.1
M398475		5.6	23	0.3	9.5	39	2.0
M398476		5.8	53	34.8	10.2	29	120.0
M398477		5.5	34	0.6	6.9	55	2.8
M398478		5.5	39	0.7	7.0	83	4.0
M398479		8.4	312	5.3	31.5	327	82.0
M398480		5.2	209	2.2	26.1	200	76.0
M398481		5.9	211	2.2	27.0	253	80.9
M398482		5.6	214	2.2	26.5	239	79.7
M398483		5.0	224	4.5	26.8	214	81.4
M398484		6.5	223	2.2	26.9	230	82.6
M398485		5.3	232	2.2	26.0	216	89.0
M398486		6.2	219	2.0	26.1	361	81.3
M398487		5.7	221	1.5	29.0	243	81.7
M398488		6.8	221	1.5	29.5	241	82.8
M398489		3.6	115	223	17.1	79	33.2
M398490		5.8	234	2.6	28.4	198	92.0
M398491		6.5	255	3.5	29.8	259	94.0
M398492		7.9	253	4.1	30.0	257	97.9
M398493		6.8	216	3.6	29.8	179	87.3
M398494		7.0	220	3.7	30.6	176	88.8
M398495		7.0	191	2.5	21.3	266	81.6
M398496		9.4	173	1.4	28.9	248	74.1
M398497		9.3	182	2.5	25.6	293	75.6
M398498		0.7	3	0.1	0.9	17	0.6

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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12216660**

Method	CERTIFICATE COMMENTS
ME- MS61	Interference: Mo> 400ppm on ICP- MS Cd,ICP- AES results shown.
ME- MS61	REE's may not be totally soluble in this method.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12219223**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 365  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12219223**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398285		3.57	0.01	3.11	5.07	1080	4170	1.67	0.19	0.21	0.76	47.7	5.4	191	11.55	67.4
M398286		4.97	0.01	2.39	4.96	1245	3610	1.50	0.18	0.17	0.68	49.4	1.9	178	10.80	66.1
M398287		4.25	0.01	1.33	4.73	1495	2900	1.17	0.22	0.20	0.73	46.2	1.9	159	11.85	52.7
M398288		6.94	<0.01	0.02	0.07	<5	30	0.07	0.04	21.4	0.06	1.21	0.7	<1	0.24	4.9
M398289		4.20	0.01	3.29	5.09	876	3900	1.43	0.16	0.32	0.38	48.3	1.1	174	10.70	64.5
M398290		2.60	0.01	3.85	4.58	2690	4530	2.45	0.16	0.50	1.33	38.7	3.9	204	9.14	158.0
M398291		4.28	0.01	2.42	5.13	862	2950	1.51	0.19	0.32	0.53	47.3	1.1	191	11.35	70.3
M398292		4.51	0.01	1.74	4.48	680	3340	1.22	0.18	0.29	0.32	46.8	1.5	147	11.60	32.6
M398293		3.71	0.01	3.26	5.22	1105	2220	1.86	0.17	0.36	0.84	49.5	1.7	185	12.55	72.9
M398294		1.65	0.01	3.23	4.99	1130	2070	1.71	0.19	0.37	0.81	47.3	1.9	187	12.00	93.0
M398295		0.94	0.01	2.55	3.73	4270	6050	3.53	0.09	0.72	3.16	21.1	18.2	251	3.66	247
M398296		4.05	0.01	2.62	4.74	742	2640	1.67	0.19	0.39	0.55	43.5	1.6	233	13.45	61.6
M398297		4.19	0.01	3.29	4.43	633	1540	1.07	0.18	0.31	0.30	44.3	0.8	223	14.00	39.9
M398298		0.23	4.20	0.73	2.74	453	820	0.64	0.46	9.94	0.51	41.5	4.9	42	2.40	31.1
M398299		4.99	0.01	2.20	4.64	823	1660	1.32	0.18	0.35	0.41	46.0	1.3	224	17.00	53.6
M398300		4.22	0.01	1.94	4.84	775	2370	1.32	0.20	0.37	0.42	44.8	3.0	195	15.15	59.8
M398151		4.69	<0.01	2.16	4.52	979	2840	1.09	0.19	0.40	0.42	44.1	3.3	173	13.40	41.5
M398152		4.64	0.01	2.81	4.92	1350	1650	1.20	0.16	0.54	0.41	53.0	2.5	219	16.50	37.3
M398153		5.14	0.01	1.81	4.92	508	2440	1.50	0.19	0.31	0.47	51.1	1.6	159	14.55	91.3
M398154		<0.02	0.01	1.89	5.10	543	2520	1.57	0.19	0.32	0.56	50.5	1.6	163	14.70	95.4
M398155		3.93	0.03	1.80	4.87	729	2830	2.36	0.18	0.30	1.20	45.9	2.1	137	14.75	75.2
M398156		2.14	6.81	3.73	4.79	472	3030	1.25	0.19	0.64	1.28	50.3	2.3	161	9.23	55.1
M398157		1.15	2.02	0.30	0.42	80	1470	0.56	0.01	32.6	1.23	3.25	0.4	4	0.36	10.1
M398158		1.42	0.02	1.56	5.88	869	1230	2.67	0.25	0.21	4.55	75.2	6.0	94	30.2	62.4
M398159		3.19	0.02	6.01	5.16	859	1080	2.94	0.21	0.17	4.49	59.9	6.3	89	22.0	92.4
M398160		6.92	<0.01	0.03	0.05	<5	60	<0.05	0.02	21.2	0.07	1.20	0.7	<1	0.15	3.4
M398161		2.35	0.01	5.68	5.01	1325	990	2.80	0.19	0.23	4.87	59.2	5.5	90	21.7	101.0
M398162		2.66	0.01	1.19	6.14	540	1540	2.28	0.29	0.16	2.93	72.7	3.3	97	27.5	40.9
M398163		2.31	0.01	1.49	6.05	553	1460	2.30	0.28	0.14	2.93	72.1	5.6	98	33.4	43.8
M398164		2.75	0.01	4.20	6.05	1275	1310	4.51	0.26	0.16	6.93	70.7	7.5	101	29.2	158.0
M398165		2.75	0.01	7.58	6.53	956	1160	5.08	0.27	0.31	5.35	74.6	9.7	100	29.6	143.0
M398166		0.23	0.27	0.68	1.86	468	2060	0.35	0.21	1.08	0.35	38.2	3.9	81	2.03	38.8
M398167		1.54	0.01	5.93	5.67	6050	5470	8.46	0.25	0.43	33.9	64.8	27.0	89	22.4	257
M398168		3.08	0.04	7.53	6.20	1550	1350	3.67	0.25	0.26	6.45	66.6	7.9	91	24.2	116.5
M398169		3.35	0.07	5.97	5.45	1650	840	2.86	0.23	0.24	8.83	59.7	5.7	81	20.9	124.5
M398170		3.70	0.40	2.33	6.06	1680	850	3.37	0.26	0.17	9.22	62.0	6.3	89	27.1	103.5

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12219223**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398285		4.02	13.45	0.13	2.2	1.18	0.046	1.75	38.2	17.8	0.27	63	9.69	0.03	8.8	112.5
M398286		3.34	12.85	0.14	2.3	1.42	0.048	1.73	36.8	20.6	0.25	32	7.77	0.02	8.6	54.5
M398287		3.84	13.10	0.10	2.2	1.54	0.033	1.77	33.4	19.1	0.25	35	6.86	0.03	7.9	33.2
M398288		0.49	0.22	<0.05	<0.1	<0.1	<0.005	0.03	0.6	1.2	12.85	217	0.16	<0.01	0.2	1.9
M398289		2.47	13.30	0.12	2.3	1.55	0.026	1.80	37.3	21.2	0.25	27	6.17	0.03	8.1	25.3
M398290		6.95	11.45	0.15	2.0	0.76	0.060	1.32	34.8	17.3	0.19	57	17.00	0.02	6.2	111.5
M398291		2.66	13.00	0.11	2.3	0.99	0.035	1.83	33.5	17.8	0.26	30	5.34	0.03	8.3	32.6
M398292		1.98	12.20	0.08	2.3	1.20	0.032	1.56	33.9	16.9	0.25	22	4.46	0.02	8.4	25.7
M398293		3.77	14.20	0.14	2.1	1.56	0.058	1.84	36.6	22.8	0.28	23	6.93	0.05	8.2	39.6
M398294		4.04	13.50	0.09	2.1	1.64	0.068	1.75	34.0	21.4	0.27	23	6.75	0.05	7.8	41.0
M398295		17.60	7.33	0.20	1.6	0.66	0.100	0.71	21.1	11.6	0.10	480	41.0	0.01	3.3	432
M398296		2.45	12.15	0.12	2.1	1.62	0.032	1.64	35.3	18.7	0.25	14	9.72	0.03	7.9	28.5
M398297		2.80	12.10	0.12	2.2	1.98	0.031	1.61	37.0	18.3	0.26	12	24.0	0.05	8.1	30.7
M398298		1.84	6.18	0.09	1.3	5.38	0.027	0.86	23.2	51.6	5.16	369	9.22	0.01	5.1	31.5
M398299		5.85	13.75	0.16	2.1	6.62	0.098	1.94	32.6	21.5	0.27	14	12.00	0.06	7.6	31.8
M398300		4.27	13.70	0.14	2.1	3.81	0.067	1.66	34.5	20.9	0.25	25	11.15	0.04	8.1	66.1
M398151		4.66	12.70	0.09	2.0	4.57	0.059	1.56	34.2	17.0	0.23	46	10.55	0.04	7.6	61.2
M398152		3.53	13.70	0.15	2.5	5.60	0.061	1.74	38.3	15.6	0.26	46	10.10	0.05	9.5	53.9
M398153		2.97	13.70	0.09	2.3	3.80	0.046	1.67	36.7	15.4	0.23	35	7.50	0.03	8.6	51.2
M398154		3.09	14.05	0.10	2.3	3.74	0.050	1.68	35.4	15.7	0.24	36	7.99	0.03	8.8	51.8
M398155		3.03	12.65	0.13	2.3	4.74	0.037	1.31	33.8	17.3	0.19	31	11.90	0.01	8.0	92.3
M398156		1.99	12.30	0.16	4.6	18.6	0.037	1.07	41.5	33.9	0.17	26	16.65	<0.01	8.3	78.3
M398157		0.10	0.63	<0.05	0.1	1.10	0.006	0.04	4.0	4.9	0.14	413	0.74	<0.01	0.3	17.3
M398158		2.87	17.40	0.13	2.9	1.08	0.052	2.81	37.0	12.5	0.43	82	3.78	0.04	16.0	39.3
M398159		2.11	14.65	0.10	2.4	1.36	0.043	2.31	30.8	12.9	0.33	76	3.83	0.03	14.1	39.9
M398160		0.47	0.16	<0.05	<0.1	0.01	<0.005	0.02	0.6	1.0	12.65	210	0.26	<0.01	0.2	1.8
M398161		2.10	14.75	0.12	2.9	1.38	0.042	2.25	31.8	12.1	0.33	75	3.45	0.03	12.8	41.3
M398162		2.35	18.10	0.11	3.0	1.88	0.050	2.97	37.9	11.3	0.48	58	3.12	0.04	16.0	25.2
M398163		3.31	18.35	0.11	3.1	1.61	0.059	2.90	39.0	12.2	0.46	88	4.63	0.04	15.7	30.7
M398164		4.88	17.25	0.14	2.7	0.95	0.062	2.80	36.3	11.3	0.44	161	5.67	0.04	14.9	52.0
M398165		3.82	18.40	0.14	3.0	1.02	0.053	2.94	40.7	11.7	0.46	182	6.64	0.04	16.4	66.0
M398166		3.91	5.44	<0.05	3.4	4.10	0.034	0.43	19.0	23.6	0.06	79	14.55	0.12	7.6	17.1
M398167		16.35	15.80	0.34	2.4	1.35	0.092	2.40	35.5	11.0	0.40	1120	15.70	0.02	11.7	156.5
M398168		3.22	17.70	0.16	2.7	1.84	0.059	2.70	36.8	15.1	0.35	126	5.74	0.03	18.8	56.3
M398169		2.91	13.95	0.15	2.5	1.73	0.048	2.40	32.9	13.1	0.29	117	4.69	0.02	17.0	45.6
M398170		3.49	16.65	0.16	2.6	1.05	0.052	2.67	34.6	12.9	0.38	108	5.27	0.03	17.9	48.4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12219223**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398285		1650	11.2	103.0	0.022	0.25	3.29	13.9	16	1.6	241	0.58	0.12	7.3	0.296	1.94
M398286		1590	12.4	95.4	0.014	0.36	7.07	10.8	13	1.7	489	0.59	0.08	7.4	0.291	4.57
M398287		1340	13.8	93.2	0.008	0.49	5.27	9.2	11	1.7	453	0.56	0.12	7.1	0.296	4.76
M398288		180	1.4	1.7	<0.002	0.01	0.08	0.2	<1	0.2	41.7	<0.05	<0.05	<0.2	<0.005	0.02
M398289		1340	12.1	96.7	0.006	0.50	3.86	7.2	8	1.6	418	0.60	0.15	7.0	0.300	4.14
M398290		3390	10.1	76.2	0.005	0.34	6.47	9.4	14	1.3	881	0.42	0.19	5.9	0.217	2.77
M398291		1210	11.0	101.5	0.014	0.38	1.92	8.3	9	1.5	268	0.62	0.12	7.7	0.318	1.68
M398292		840	11.0	91.7	0.008	0.34	3.93	7.8	5	1.6	232	0.56	0.09	6.7	0.286	2.16
M398293		1720	12.0	111.0	0.012	0.39	7.28	11.8	9	1.7	320	0.57	0.09	7.0	0.292	2.96
M398294		1740	11.2	105.0	0.011	0.35	6.61	11.6	9	1.6	298	0.55	0.13	6.8	0.279	2.76
M398295		8700	6.2	33.9	<0.002	0.33	7.70	24.0	31	1.0	2330	0.25	0.08	4.1	0.116	0.70
M398296		1320	12.4	97.2	0.016	0.50	2.79	8.4	10	1.6	290	0.58	0.10	6.9	0.294	4.19
M398297		970	13.1	105.5	0.073	0.68	6.77	7.1	12	1.5	215	0.57	0.19	6.6	0.299	6.21
M398298		550	9.6	47.4	0.007	1.45	89.4	4.3	2	2.5	55.4	0.37	0.22	5.9	0.160	2.46
M398299		1810	10.9	112.0	0.028	1.07	15.70	8.1	20	1.7	421	0.55	0.21	6.9	0.285	9.21
M398300		1750	11.1	98.9	0.010	0.42	10.25	8.5	10	1.6	295	0.55	0.12	7.0	0.287	4.37
M398151		2350	11.8	94.3	0.003	0.56	4.71	8.7	8	1.5	293	0.52	0.11	7.1	0.274	5.08
M398152		2770	10.7	107.0	0.029	0.49	5.53	9.6	15	1.9	200	0.61	0.22	8.1	0.326	7.55
M398153		1370	12.4	89.6	0.002	0.27	7.02	8.8	7	1.6	283	0.59	0.11	7.4	0.294	4.71
M398154		1390	12.5	95.8	0.003	0.29	7.20	9.2	6	1.5	289	0.63	0.11	7.7	0.304	4.99
M398155		1320	12.5	74.5	<0.002	0.13	9.14	6.0	5	1.5	410	0.56	0.23	6.7	0.270	1.97
M398156		1390	42.7	58.4	<0.002	0.10	9.21	5.8	27	2.0	621	0.59	0.16	7.4	0.270	1.47
M398157		320	4.7	2.0	0.002	0.05	0.78	3.5	<1	0.2	117.5	<0.05	<0.05	0.3	0.009	0.28
M398158		660	48.7	159.0	0.003	0.25	7.68	13.7	2	1.8	143.0	1.04	0.12	9.7	0.375	2.72
M398159		570	57.4	123.5	0.004	0.06	6.44	10.7	4	1.7	112.0	0.93	0.07	8.5	0.312	1.44
M398160		180	1.4	1.1	<0.002	<0.01	0.05	0.2	<1	<0.2	44.8	<0.05	<0.05	<0.2	<0.005	<0.02
M398161		800	56.5	118.0	0.005	0.03	6.47	10.5	3	1.5	95.4	0.85	0.10	8.4	0.303	1.23
M398162		640	26.0	152.5	0.005	0.16	4.95	11.3	2	2.1	133.0	1.15	0.14	10.2	0.393	2.48
M398163		720	29.1	164.0	0.003	0.36	5.99	11.9	2	2.0	178.0	1.05	0.15	9.8	0.374	4.19
M398164		870	30.4	147.5	<0.002	0.13	7.24	17.6	4	1.9	145.5	1.01	0.09	10.0	0.362	1.79
M398165		1260	81.2	154.0	0.003	0.01	11.95	13.3	5	2.0	82.4	1.10	0.12	10.8	0.382	1.64
M398166		280	17.4	17.2	0.002	0.90	59.0	4.7	1	2.3	226	0.53	0.13	4.0	0.319	12.10
M398167		2660	29.7	106.5	<0.002	0.13	12.00	35.2	11	1.5	208	0.71	0.12	8.6	0.305	2.49
M398168		1140	32.2	126.0	<0.002	0.02	8.04	13.5	3	1.9	117.5	1.09	0.09	10.3	0.367	1.32
M398169		970	30.3	103.0	0.002	0.02	6.57	11.1	4	1.7	80.4	1.04	0.08	9.4	0.329	1.30
M398170		660	22.9	122.0	<0.002	0.01	7.84	13.4	4	1.9	70.6	1.06	0.09	10.4	0.358	1.45

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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12219223**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	1	0.1	0.1	2	0.5
M398285		4.9	264	3.5	33.1	459	79.7
M398286		5.3	249	3.4	26.0	197	81.0
M398287		5.3	264	3.6	17.8	120	81.1
M398288		0.6	2	0.1	0.8	17	<0.5
M398289		4.9	245	3.1	27.6	55	76.8
M398290		7.1	349	3.2	56.2	747	76.7
M398291		6.1	261	3.2	27.6	57	72.6
M398292		5.8	239	2.4	17.2	36	69.3
M398293		4.7	279	1.8	28.8	132	76.4
M398294		4.7	279	1.7	27.9	137	73.6
M398295		8.4	525	1.1	80.0	2340	90.3
M398296		8.6	251	1.7	31.4	42	72.6
M398297		6.7	249	1.8	15.7	28	88.9
M398298		5.3	98	71.9	14.2	72	44.7
M398299		6.2	319	1.9	15.5	88	70.7
M398300		7.2	283	2.1	17.8	235	72.5
M398151		7.1	272	2.0	15.4	158	68.1
M398152		8.7	266	2.6	17.2	76	83.8
M398153		6.3	267	4.7	27.7	121	74.9
M398154		6.6	276	5.0	29.1	129	77.7
M398155		6.7	273	5.5	44.2	352	72.4
M398156		9.3	253	10.1	52.9	224	75.1
M398157		11.4	40	1.6	18.1	28	6.0
M398158		4.0	328	5.6	25.9	198	108.5
M398159		3.9	316	8.9	23.7	254	90.3
M398160		0.6	2	0.1	0.8	16	<0.5
M398161		4.1	283	8.7	30.0	252	91.0
M398162		3.9	350	3.5	21.4	122	102.5
M398163		3.6	379	4.6	18.1	207	98.8
M398164		4.1	383	5.3	39.0	381	96.5
M398165		4.8	381	10.3	65.9	368	105.5
M398166		5.7	53	37.6	9.4	29	103.5
M398167		8.1	356	8.2	80.6	822	188.5
M398168		4.6	355	13.1	43.0	397	118.0
M398169		4.5	333	11.4	44.3	279	103.5
M398170		4.3	349	12.1	38.4	289	112.5



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**CERTIFICATE OF ANALYSIS WH12219223**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**Page: 1**  
**Finalized Date: 20- SEP- 2012**  
**This copy reported on**  
**21- SEP- 2012**  
**Account: RCM**

**CERTIFICATE WH12219777**

Project: Rackla Gold (Area D)  
 P.O. No.: 12- 330  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- SEP- 2012.  
 The following have access to data associated with this certificate:

JULIA LANE	JOAN MARIACHER	JORDAN MCDIVITT
------------	----------------	-----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**  
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Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12203897\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area D)

**CERTIFICATE OF ANALYSIS WH12219777**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
M398437		<0.01
M398438		<0.01
M398439		<0.01
M398440		<0.01
M398441		<0.01
M398442		<0.01
M398443		<0.01
M398444		<0.01
M398445		<0.01
M398446		<0.01
M398447		<0.01
M398448		0.27
M398449		<0.01
M398450		<0.01
M398551		<0.01
M398552		<0.01
M398553		<0.01
M398554		<0.01
M398555		<0.01
M398556		<0.01
M398557		<0.01
M398558		<0.01
M398559		<0.01
M398560		<0.01
M398561		<0.01
M398562		<0.01
M398563		<0.01
M398564		<0.01
M398565		<0.01
M398566		<0.01
M398567		<0.01
M398568		0.27
M398569		0.01
M398570		<0.01
M398571		<0.01
M398572		<0.01

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12203897\*\*



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 Account: RCM

**CERTIFICATE WH12221693**

Project: Rackla Gold - Area C  
 P.O. No.: 12- 349  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- SEP- 2012.  
 The following have access to data associated with this certificate:  
 JULIA LANE                      JOAN MARIACHER                      JORDAN MCDIVITT

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.  
 ATTN: JORDAN MCDIVITT  
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Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12210696\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12221693**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
K311591		<0.01
K311592		0.01
K311593		<0.01
K311594		<0.01
K311595		<0.01
K311596		<0.01
K311597		<0.01
K311598		0.02
K311599		<0.01
K311600		<0.01
M398615		<0.01
M398616		<0.01
M398617		0.01
M398618		0.01
M398619		4.29
M398620		<0.01
M398621		<0.01
M398622		0.04
M398623		<0.01
M398624		<0.01
M398625		<0.01
M398626		<0.01
M398627		0.01
M398628		0.26
M398629		<0.01
M398630		<0.01
M398631		<0.01
M398632		<0.01
M398633		<0.01
M398634		<0.01
M398635		<0.01
M398636		<0.01
M398637		<0.01
M398638		<0.01
M398639		<0.01
M398640		<0.01

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12210696\*\*





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**CERTIFICATE WH12224096**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 374  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 23- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE

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\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages  
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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224096**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K311643		10.94	<0.01	0.22	0.21	54	100	0.22	0.01	35.2	0.74	3.03	1.2	<1	0.56	3.1
K311644		5.59	<0.01	0.18	0.35	56	100	0.20	0.01	35.9	1.04	4.51	1.1	<1	0.91	5.2
K311645		9.94	<0.01	0.13	0.14	44	70	0.14	0.01	38.9	0.63	2.29	0.9	<1	0.42	2.7
K311646		6.94	<0.01	<0.01	0.06	<5	30	<0.05	0.02	21.4	0.06	1.42	1.3	<1	0.15	1.5
K311647		5.55	<0.01	0.20	0.10	193	360	0.24	0.01	38.6	1.44	1.94	1.0	<1	0.58	4.1
K311648		5.90	<0.01	0.15	0.28	699	120	0.39	0.03	37.9	0.36	4.49	1.3	<1	1.26	1.7
K311649		2.27	<0.01	0.13	0.25	449	90	0.32	0.01	36.9	0.36	4.38	1.2	<1	1.10	2.3
M311650		5.73	0.01	0.07	0.07	43	60	0.10	0.01	39.3	0.58	1.41	0.8	<1	0.26	1.6
M398201		4.62	<0.01	0.04	0.22	99	70	0.11	0.01	34.2	0.17	2.95	1.1	<1	0.49	1.3
M398202		5.11	<0.01	0.08	0.06	21	60	0.09	<0.01	37.7	0.62	1.02	0.7	<1	0.17	3.1
M398203		5.68	<0.01	0.09	0.21	40	80	0.11	0.01	37.7	0.24	3.01	0.9	<1	0.58	10.3
M398204		0.24	0.25	0.67	1.89	465	330	0.32	0.22	1.12	0.37	37.6	3.9	80	2.24	41.2
M398205		1.36	<0.01	0.37	2.53	321	550	0.79	0.09	16.85	3.38	32.4	5.4	33	3.65	17.0
M398206		0.58	<0.01	0.89	2.04	117	500	0.53	0.06	17.65	6.76	32.0	3.5	24	3.02	15.6
M398207		2.15	<0.01	1.22	1.58	473	430	0.73	0.04	24.5	22.8	23.9	2.4	38	4.79	20.3
M398208		3.24	<0.01	4.67	5.14	1645	1280	1.69	0.17	1.89	23.6	68.8	5.7	121	15.70	44.5
M398209		4.05	0.01	9.61	4.66	2760	610	1.29	0.13	8.53	36.9	57.9	7.6	86	12.65	28.4
M398210		<0.02	0.01	8.08	4.59	2690	610	1.28	0.14	8.06	35.9	58.3	7.5	82	12.75	28.2
M398211		6.03	<0.01	0.44	1.59	579	430	0.66	0.04	25.7	10.55	21.9	1.7	13	3.94	8.9
M398212		5.23	<0.01	0.67	3.05	896	570	1.21	0.08	9.63	7.44	36.7	5.0	36	8.39	23.6
M398213		3.02	<0.01	0.77	4.65	4090	400	2.52	0.12	5.55	34.0	51.3	17.3	63	14.90	24.6
M398214		5.11	<0.01	4.17	5.91	2740	410	1.63	0.18	5.99	51.8	45.5	5.8	99	17.70	45.7
M398215		0.25	16.50	1.11	1.89	1160	240	0.35	0.60	14.60	0.73	33.4	3.7	33	2.53	62.0
M398216		4.87	<0.01	3.39	3.29	2300	270	0.96	0.09	16.30	52.4	29.7	2.8	41	9.78	17.5
M398217		5.10	<0.01	0.93	2.94	1100	250	0.99	0.08	17.55	16.90	25.1	17.7	28	11.70	12.6
M398218		4.99	<0.01	1.50	5.29	1700	370	2.02	0.12	7.18	19.85	46.9	11.4	77	20.2	33.4
M398219		4.93	<0.01	1.60	5.44	1780	340	2.22	0.15	8.09	21.1	69.6	9.9	78	21.5	34.0
M398220		4.71	<0.01	1.45	4.02	1260	280	1.69	0.11	12.70	18.45	45.5	8.4	55	17.55	26.6
M398221		6.93	<0.01	0.01	0.05	5	20	0.05	0.04	19.90	0.10	1.18	1.3	<1	0.14	1.7
M398222		5.38	<0.01	1.34	4.08	1200	320	1.70	0.09	15.00	17.85	52.4	13.7	63	16.35	25.6
M398223		5.13	<0.01	1.10	3.93	1330	350	1.48	0.08	15.40	12.30	41.0	11.2	46	17.65	20.9
M398224		5.61	<0.01	1.37	3.21	1100	320	1.27	0.13	18.85	12.65	39.0	8.6	50	12.65	22.9
M398225		5.09	<0.01	0.66	1.64	615	210	0.71	0.04	27.1	6.76	17.80	2.9	23	6.65	11.7
M398226		6.16	<0.01	0.67	2.01	572	210	0.86	0.05	25.8	5.10	31.9	4.2	23	8.19	11.6
M398227		5.47	<0.01	0.87	1.51	431	140	0.68	0.04	29.9	5.28	19.10	3.3	16	6.06	10.4
M398228		5.29	<0.01	0.87	2.18	536	190	0.90	0.06	23.7	5.20	23.1	5.5	23	8.76	12.9

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 Plus Appendix Pages  
 Finalized Date: 2- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224096**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
K311643		0.13	0.64	0.07	0.1	0.4	<0.005	0.10	2.1	1.1	2.57	69	0.34	0.01	0.6	1.8
K311644		0.16	0.95	0.08	0.1	0.4	<0.005	0.16	2.9	1.3	1.85	34	0.23	0.01	0.9	1.3
K311645		0.08	0.43	0.07	0.1	0.2	<0.005	0.06	1.8	0.6	0.41	47	0.16	<0.01	0.5	0.8
K311646		0.46	0.33	0.15	<0.1	<0.1	<0.005	0.03	0.7	1.2	12.75	206	0.13	<0.01	0.4	1.4
K311647		0.18	0.39	0.09	<0.1	0.3	<0.005	0.04	1.3	0.8	0.16	138	0.22	<0.01	0.4	2.7
K311648		0.72	0.80	0.08	0.1	0.2	<0.005	0.13	2.9	0.9	0.27	252	0.58	<0.01	0.8	2.9
K311649		0.50	0.79	0.07	0.1	0.2	<0.005	0.11	3.0	0.8	0.23	228	0.44	<0.01	0.7	2.3
M311650		0.06	0.25	0.07	<0.1	0.2	<0.005	0.03	1.2	0.4	0.58	48	0.12	<0.01	0.4	1.1
M398201		0.11	0.59	0.08	0.1	0.1	<0.005	0.10	1.7	1.1	2.26	34	0.18	0.01	0.7	2.3
M398202		0.04	0.19	<0.05	<0.1	0.1	<0.005	0.02	0.8	0.5	0.45	42	0.15	<0.01	0.2	<0.2
M398203		0.10	0.57	0.10	0.1	0.2	<0.005	0.10	1.8	0.7	0.66	40	0.18	<0.01	0.7	2.6
M398204		3.91	5.20	0.12	3.6	4.33	0.038	0.43	19.5	25.8	0.06	76	14.00	0.11	8.3	17.5
M398205		1.94	6.38	0.11	1.3	0.1	0.026	0.82	19.2	21.0	1.53	391	3.88	0.14	5.2	41.1
M398206		1.38	4.78	0.17	1.6	<0.1	0.019	0.72	19.5	13.6	1.05	358	7.55	0.19	4.0	29.4
M398207		1.01	4.09	0.20	0.7	0.2	0.015	0.73	20.1	8.0	1.59	142	11.30	0.02	3.3	90.2
M398208		2.14	12.90	0.28	2.0	3.78	0.058	2.38	57.5	18.4	0.48	98	61.3	0.03	9.1	684
M398209		3.26	11.85	0.25	1.8	6.6	0.053	2.12	47.5	12.6	0.42	91	88.8	0.03	8.2	569
M398210		3.13	11.80	0.26	1.8	6.7	0.047	2.10	47.9	12.6	0.41	87	91.9	0.03	8.3	563
M398211		0.76	4.23	0.11	0.7	0.12	0.017	0.77	16.0	5.4	0.81	89	7.41	0.01	3.2	100.5
M398212		1.58	7.82	0.16	1.2	0.2	0.038	1.41	25.5	9.4	0.39	80	27.3	0.02	5.5	382
M398213		3.11	11.50	0.32	1.8	0.3	0.054	2.17	37.1	15.8	0.67	136	15.90	0.03	8.3	775
M398214		2.97	14.80	0.48	2.3	1.4	0.059	2.81	35.0	17.0	3.05	99	28.0	0.04	9.8	400
M398215		3.54	3.67	0.13	0.9	6.4	0.058	0.39	19.0	45.3	0.72	464	11.25	0.01	3.7	20.7
M398216		1.93	8.13	0.22	1.3	2.24	0.034	1.54	21.5	10.8	1.29	110	9.57	0.02	5.8	184.5
M398217		1.83	7.10	0.16	1.2	0.59	0.032	1.39	17.4	11.3	1.76	192	45.5	0.02	5.4	647
M398218		2.82	15.00	0.74	2.2	1.03	0.049	2.61	36.9	20.9	3.76	91	84.8	0.04	9.4	413
M398219		2.78	15.70	0.66	2.3	0.49	0.051	2.71	55.9	23.0	4.20	76	87.2	0.04	9.5	374
M398220		2.01	11.80	0.41	1.7	0.21	0.040	1.99	35.9	18.5	5.18	82	94.2	0.03	7.4	316
M398221		0.44	0.25	0.08	<0.1	<0.01	<0.005	0.02	0.6	0.9	12.35	203	0.37	<0.01	0.3	3.1
M398222		2.08	12.15	0.28	1.8	0.23	0.038	2.03	39.4	17.6	3.40	116	139.0	0.03	7.2	611
M398223		2.08	11.10	0.46	1.7	0.13	0.035	1.97	29.9	16.6	3.39	113	152.0	0.03	7.0	613
M398224		1.60	9.35	0.49	1.4	0.14	0.035	1.55	29.6	14.1	2.80	101	125.0	0.03	5.7	469
M398225		0.74	4.85	0.20	0.7	0.07	0.015	0.79	14.8	7.3	1.14	85	35.3	0.02	3.2	113.5
M398226		1.04	5.68	0.10	0.9	0.12	0.017	0.98	23.5	8.4	2.44	113	88.1	0.02	3.8	230
M398227		0.73	4.41	0.11	0.7	0.07	0.013	0.73	14.9	6.4	0.72	149	37.3	0.02	2.9	138.5
M398228		1.03	5.90	0.14	1.0	0.14	0.020	1.06	18.2	10.0	2.99	95	69.1	0.02	4.0	191.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224096**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
K311643		160	18.7	4.5	<0.002	0.01	0.58	0.6	1	<0.2	133.5	<0.05	<0.05	0.4	0.010	0.20
K311644		210	6.7	7.4	<0.002	0.06	0.44	0.9	2	0.2	141.5	<0.05	<0.05	0.6	0.017	0.19
K311645		170	8.3	3.0	<0.002	0.01	0.38	0.5	1	<0.2	143.0	<0.05	<0.05	0.2	0.006	0.07
K311646		200	1.4	1.3	<0.002	0.01	<0.05	0.2	1	<0.2	50.5	<0.05	<0.05	<0.2	<0.005	<0.02
K311647		70	8.0	2.2	<0.002	0.02	0.51	0.9	1	<0.2	127.0	<0.05	<0.05	0.2	<0.005	0.12
K311648		190	6.1	5.7	<0.002	0.01	0.89	1.2	1	<0.2	172.5	<0.05	<0.05	0.5	0.014	0.23
K311649		200	5.1	5.0	<0.002	0.01	0.62	1.2	1	<0.2	171.0	<0.05	<0.05	0.5	0.013	0.19
K311650		40	37.6	1.4	<0.002	0.01	0.74	0.4	1	<0.2	155.0	<0.05	<0.05	<0.2	<0.005	0.07
M398201		140	6.8	4.5	<0.002	0.05	0.41	0.6	1	<0.2	177.5	<0.05	<0.05	0.4	0.012	0.22
M398202		30	4.7	1.0	<0.002	<0.01	0.10	0.3	2	<0.2	133.0	<0.05	<0.05	<0.2	<0.005	0.07
M398203		190	13.6	4.4	<0.002	0.05	0.64	0.6	2	<0.2	140.0	<0.05	<0.05	0.4	0.011	0.13
M398204		290	18.8	17.8	<0.002	0.87	58.6	4.8	3	2.6	226	0.50	0.12	4.1	0.313	12.65
M398205		510	34.7	43.7	0.004	0.07	2.72	4.7	2	0.8	718	0.38	<0.05	5.0	0.149	1.54
M398206		300	14.2	35.8	<0.002	0.06	2.64	3.5	29	0.6	333	0.28	<0.05	5.0	0.098	1.96
M398207		450	9.5	36.4	0.084	0.11	6.66	3.4	32	0.6	315	0.21	0.05	2.5	0.087	5.01
M398208		1030	186.5	112.0	0.002	0.08	47.2	5.2	23	1.8	121.0	0.64	0.11	8.2	0.279	22.0
M398209		980	4580	93.6	0.002	0.12	46.2	5.6	26	1.6	463	0.57	0.08	6.7	0.243	44.2
M398210		970	4790	95.8	0.002	0.13	47.0	5.6	27	1.6	450	0.57	0.08	6.8	0.242	45.0
M398211		180	26.6	35.4	0.013	0.02	4.09	3.4	8	0.6	706	0.21	<0.05	2.7	0.088	5.63
M398212		320	12.2	63.4	0.004	0.03	12.30	5.1	12	1.2	239	0.38	<0.05	4.8	0.170	13.20
M398213		650	17.5	96.6	<0.002	0.01	20.9	7.7	39	1.7	127.0	0.59	<0.05	7.2	0.260	21.6
M398214		1250	539	123.0	<0.002	0.06	14.85	7.4	98	2.1	105.5	0.71	0.07	8.7	0.318	22.1
M398215		670	21.9	26.3	0.007	1.90	159.5	3.8	3	2.0	49.7	0.27	0.41	3.7	0.110	3.69
M398216		590	333	67.2	<0.002	0.01	14.55	4.3	34	1.1	226	0.41	<0.05	4.9	0.181	12.35
M398217		400	18.5	63.4	<0.002	0.01	22.9	4.6	13	1.1	199.0	0.37	<0.05	4.5	0.159	17.80
M398218		1400	38.1	104.5	0.004	0.01	16.85	7.9	159	1.8	118.0	0.59	0.07	7.2	0.285	29.9
M398219		1270	21.6	109.5	0.005	0.01	17.70	8.4	135	1.9	107.5	0.62	0.07	7.6	0.294	33.0
M398220		760	12.1	85.1	0.002	0.01	13.85	6.8	84	1.5	176.0	0.46	0.05	5.6	0.222	24.9
M398221		160	0.5	1.2	<0.002	<0.01	0.05	0.2	1	<0.2	48.6	<0.05	<0.05	<0.2	<0.005	0.06
M398222		2330	10.6	85.2	0.002	0.01	11.05	7.5	37	1.4	264	0.47	0.06	5.6	0.223	21.6
M398223		1540	9.6	83.2	0.003	0.01	10.05	6.7	88	1.4	253	0.47	0.05	5.7	0.222	22.2
M398224		1350	17.6	67.0	0.005	0.01	9.18	5.7	113	1.1	364	0.37	0.05	4.6	0.174	16.70
M398225		450	5.3	34.8	0.008	<0.01	3.63	3.6	41	0.6	528	0.19	<0.05	2.3	0.089	8.83
M398226		2300	5.1	41.6	0.002	<0.01	4.91	4.5	4	0.7	490	0.23	<0.05	2.8	0.108	11.50
M398227		770	3.9	32.2	0.003	0.01	3.27	3.8	12	0.5	588	0.18	<0.05	2.1	0.080	8.58
M398228		510	6.3	46.0	0.003	0.01	5.64	4.6	17	0.8	448	0.25	<0.05	3.0	0.116	16.70



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224096**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Zn- OG62
	Analyte	U	V	W	Y	Zn	Zr	Zn
Units		ppm	ppm	ppm	ppm	ppm	ppm	%
LOR		0.1	1	0.1	0.1	2	0.5	0.001
K311643		0.8	7	0.4	3.8	64	3.6	
K311644		1.1	6	0.7	5.0	155	5.6	
K311645		1.0	4	0.3	3.7	25	2.5	
K311646		0.7	2	0.1	1.0	13	<0.5	
K311647		2.0	6	0.2	3.8	46	2.0	
K311648		2.8	7	0.5	6.8	56	5.2	
K311649		2.9	6	0.4	6.5	46	4.3	
K311650		0.7	3	0.2	2.4	30	1.6	
M398201		1.0	3	0.4	2.2	21	3.7	
M398202		0.5	2	0.1	1.9	17	1.2	
M398203		1.0	4	0.4	2.5	17	3.9	
M398204		6.1	53	37.9	10.6	27	125.0	
M398205		3.0	163	1.3	14.1	279	49.1	
M398206		4.3	314	2.9	17.5	266	59.5	
M398207		5.5	578	0.6	22.5	950	27.2	
M398208		12.7	1590	5.1	26.5	>10000	73.8	1.135
M398209		8.2	1420	5.3	20.5	8700	70.8	
M398210		8.3	1380	5.5	20.7	8630	71.7	
M398211		4.2	206	1.1	14.7	766	24.7	
M398212		5.0	447	1.3	18.7	4860	43.8	
M398213		10.0	955	2.3	24.9	>10000	67.1	1.665
M398214		9.3	988	5.4	21.1	4130	82.1	
M398215		3.6	113	225	17.0	81	32.8	
M398216		5.1	486	3.5	14.8	2590	48.3	
M398217		4.3	267	1.4	13.2	9980	43.9	
M398218		8.3	551	2.1	25.5	4030	74.6	
M398219		11.8	738	1.9	28.4	7320	75.0	
M398220		8.2	543	1.7	23.9	6760	58.6	
M398221		0.7	4	0.1	0.9	26	<0.5	
M398222		8.0	409	1.3	33.2	>10000	58.3	1.165
M398223		6.8	274	1.5	24.5	8520	56.3	
M398224		6.6	320	1.2	24.8	7790	46.3	
M398225		3.3	181	0.6	14.9	1480	24.0	
M398226		5.5	196	0.7	26.9	1730	29.6	
M398227		5.3	167	0.5	19.3	2350	22.9	
M398228		5.8	251	0.8	17.7	2580	31.6	



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224096**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12224097**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 376  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 23- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
-----------------------------	-------------------------------	------------

<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/ o Barcode
LOG- 22d	Sample login - Rcd w/ o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224097**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units	LOR	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398229		4.29	0.01	0.77	2.43	675	280	0.98	0.07	21.7	9.74	23.4	4.6	32	8.80	10.1
M398230		2.44	0.02	0.48	2.17	605	260	0.78	0.06	22.4	13.70	21.9	5.1	25	7.92	7.0
M398231		7.29	0.01	0.39	1.89	463	290	0.68	0.07	18.30	12.00	22.5	7.4	25	5.79	9.7
M398232		10.51	<0.01	0.43	1.21	539	200	0.47	0.05	17.55	7.94	12.80	2.1	15	3.81	11.9
M398233		7.01	<0.01	<0.01	0.04	<5	20	0.06	0.01	21.4	0.09	1.08	1.3	<1	0.10	1.6
M398234		6.01	<0.01	0.87	1.58	463	160	0.59	0.05	25.5	8.39	17.00	2.9	16	4.73	7.3
M398235		10.09	0.01	1.00	1.52	451	210	0.51	0.06	23.5	10.75	18.90	3.4	16	5.05	8.0
M398236		9.31	<0.01	0.62	1.24	348	150	0.48	0.04	26.9	10.90	14.75	3.1	13	4.25	7.4
M398237		9.48	<0.01	0.39	1.59	467	150	0.55	0.06	23.7	11.50	18.15	4.3	16	5.19	7.7
M398238		0.25	4.35	0.90	2.92	442	780	0.65	0.43	10.15	0.63	44.5	5.4	44	2.66	32.2
M398239		9.82	<0.01	0.24	1.24	509	130	0.43	0.04	28.9	15.85	14.55	7.1	10	4.25	6.0
M398240		9.99	<0.01	0.09	0.70	248	130	0.26	0.03	31.7	2.91	11.05	2.9	4	2.73	3.7
M398241		10.74	<0.01	0.11	0.87	274	130	0.32	0.03	33.8	1.78	13.80	2.8	6	3.89	4.9
M398242		11.28	<0.01	0.07	0.36	70	100	0.17	0.01	32.2	1.26	6.32	1.2	1	1.09	2.4
M398243		4.15	<0.01	0.21	0.48	165	130	0.27	0.02	34.5	2.08	10.45	1.5	2	1.83	3.2
M398244		5.31	<0.01	0.65	3.94	844	400	1.49	0.11	18.65	4.67	55.5	9.3	48	20.4	20.0
M398245		4.63	<0.01	0.57	4.10	755	500	1.36	0.11	20.3	5.25	56.1	9.9	49	18.50	20.2
M398246		<0.02	<0.01	0.54	3.93	721	480	1.30	0.10	20.0	5.09	52.3	10.1	47	17.05	20.8
M398247		5.11	<0.01	0.51	2.51	514	230	0.85	0.08	26.2	6.21	39.7	5.2	28	10.35	13.8
M398248		6.47	<0.01	0.99	3.40	928	270	1.17	0.10	22.9	5.44	43.2	8.3	42	15.20	18.9
M398249		8.88	0.01	1.74	0.45	259	60	0.22	0.02	31.2	9.69	13.25	1.9	4	1.53	4.7
M398250		7.00	<0.01	<0.01	0.05	<5	30	0.05	0.01	21.3	0.08	1.20	1.4	<1	0.13	1.2
M398351		9.25	<0.01	0.91	0.80	351	70	0.36	0.03	29.3	5.30	11.55	3.1	7	2.88	6.6
M398352		5.51	<0.01	0.21	0.40	162	90	0.20	0.01	30.6	1.92	6.37	1.3	2	1.02	2.6
M398353		9.68	<0.01	0.45	0.66	339	60	0.26	0.02	29.9	3.55	9.43	2.5	7	1.94	5.3
M398354		7.26	0.12	0.84	1.55	864	120	0.62	0.05	28.1	5.90	23.5	5.5	21	5.97	12.8
M398355		3.79	0.11	0.82	1.58	859	130	0.62	0.06	27.2	5.61	23.8	5.3	22	5.86	13.1
M398356		7.00	0.14	0.93	4.32	1240	180	1.86	0.11	14.65	6.01	50.6	6.4	69	18.10	28.5
M398357		5.45	0.02	0.83	4.78	765	250	2.10	0.12	10.65	3.99	59.9	8.0	68	21.5	34.8
M398358		9.44	0.15	0.33	2.74	394	160	1.13	0.07	26.9	2.61	31.9	4.9	32	14.00	15.2
M398359		5.58	1.23	0.57	7.93	892	310	2.98	0.23	4.69	1.27	47.3	10.3	109	40.7	31.2
M398360		6.30	0.04	0.20	4.29	501	160	1.87	0.12	14.05	1.18	44.3	4.5	49	20.9	14.3
M398361		0.24	0.26	0.69	1.95	455	1080	0.33	0.23	1.06	0.43	38.1	4.6	77	2.38	40.8
M398362		9.46	0.02	0.10	1.09	249	280	0.57	0.03	30.3	1.83	17.20	4.0	11	5.13	6.4
M398363		5.23	0.03	0.04	0.09	27	50	0.13	<0.01	34.9	1.05	5.15	1.2	<1	0.29	1.9
M398364		6.58	0.50	1.63	2.16	6450	440	0.67	0.05	10.60	15.90	42.7	23.3	38	4.70	19.5





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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224097**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398229		1.36	6.52	0.13	1.0	0.4	0.021	1.09	19.4	9.8	4.63	93	121.5	0.03	4.3	301
M398230		1.22	6.11	0.16	0.9	0.6	0.020	0.96	18.9	8.7	5.21	82	121.5	0.02	3.7	307
M398231		0.91	5.17	0.18	0.8	1.7	0.016	0.82	18.5	6.8	8.40	85	52.4	0.02	3.2	257
M398232		0.69	3.42	0.17	0.5	2.6	0.013	0.54	10.4	4.9	8.52	66	15.40	0.01	2.1	57.0
M398233		0.47	0.37	0.23	<0.1	<0.1	<0.005	0.02	0.5	0.8	12.80	212	0.26	<0.01	0.2	0.9
M398234		0.81	4.37	0.26	0.6	0.7	0.012	0.72	12.8	5.9	4.94	105	30.4	0.02	2.8	75.0
M398235		0.81	4.05	0.19	0.6	0.5	0.013	0.67	14.8	6.4	6.60	72	28.8	0.02	2.5	89.2
M398236		0.67	3.44	0.20	0.5	0.1	0.011	0.57	11.5	6.0	5.05	79	42.0	0.02	2.2	90.5
M398237		0.87	4.37	0.14	0.6	<0.1	0.016	0.70	13.5	6.1	5.70	85	27.7	0.02	2.7	118.5
M398238		1.89	7.11	0.13	1.6	4.6	0.028	0.85	26.6	57.2	5.24	359	10.30	0.02	6.2	32.4
M398239		0.71	3.20	0.15	0.5	<0.1	0.009	0.57	11.2	4.6	3.06	86	15.45	0.02	2.2	77.5
M398240		0.38	1.97	0.17	0.3	<0.1	0.007	0.32	8.1	3.0	2.05	93	3.86	0.01	1.4	29.8
M398241		0.47	2.46	0.15	0.4	<0.1	0.008	0.41	10.5	3.1	1.10	108	6.13	0.01	1.7	45.7
M398242		0.21	1.10	0.16	0.1	<0.1	<0.005	0.17	5.3	1.8	2.98	71	2.83	0.01	0.8	15.4
M398243		0.28	1.36	0.15	0.2	<0.1	<0.005	0.22	9.2	2.1	1.50	123	3.96	0.01	1.0	30.3
M398244		1.85	10.95	0.26	1.7	<0.1	0.041	1.81	42.6	14.6	3.35	120	38.6	0.03	6.9	167.0
M398245		1.84	10.60	0.17	1.7	<0.1	0.041	1.89	42.6	13.4	3.25	109	39.1	0.04	6.7	175.0
M398246		1.76	10.75	0.18	1.7	0.11	0.038	1.80	39.7	13.7	3.10	107	38.6	0.03	6.6	171.0
M398247		1.21	6.66	0.14	1.0	<0.1	0.023	1.14	32.4	7.9	2.85	85	25.6	0.03	4.5	115.5
M398248		1.55	8.88	0.18	1.4	0.9	0.039	1.57	33.2	9.9	3.04	127	29.5	0.03	5.5	152.0
M398249		0.36	1.32	0.14	0.2	1.0	<0.005	0.21	10.9	1.4	2.58	125	6.32	0.01	0.9	42.1
M398250		0.48	0.47	0.26	<0.1	<0.1	<0.005	0.02	0.6	0.9	12.75	202	0.19	<0.01	0.3	3.0
M398351		0.58	2.18	0.17	0.3	0.5	<0.005	0.37	8.9	2.4	3.75	98	13.30	0.01	1.5	90.6
M398352		0.27	1.18	0.18	0.2	0.1	<0.005	0.18	4.6	1.3	3.81	61	2.81	0.01	0.9	25.9
M398353		0.52	1.84	0.16	0.3	0.5	0.005	0.30	7.3	1.8	3.26	100	8.02	0.01	1.3	71.1
M398354		1.43	4.20	0.15	0.6	1.3	0.016	0.71	19.5	4.6	2.90	89	27.5	0.02	2.9	246
M398355		1.45	4.18	0.14	0.6	1.3	0.018	0.69	19.5	4.5	2.54	90	30.4	0.02	3.0	247
M398356		2.30	11.00	0.24	1.7	2.03	0.042	2.01	38.9	16.7	5.61	110	41.6	0.04	7.1	273
M398357		2.17	12.60	0.24	2.0	1.99	0.047	2.20	43.7	19.1	5.77	109	32.0	0.04	8.2	205
M398358		1.30	6.72	0.15	1.0	2.6	0.027	1.22	23.3	10.2	1.74	119	18.15	0.02	4.7	119.0
M398359		3.48	21.5	0.27	2.7	14.7	0.069	3.89	27.8	36.1	2.78	88	13.40	0.06	13.0	243
M398360		1.78	10.70	0.20	1.4	3.20	0.034	1.94	26.8	17.1	6.95	130	9.73	0.04	6.2	126.5
M398361		3.92	6.29	0.16	3.2	4.36	0.033	0.43	20.5	25.0	0.06	77	15.90	0.12	8.2	18.5
M398362		0.64	3.03	0.13	0.4	1.6	0.009	0.50	13.6	4.5	2.13	103	10.15	0.02	2.0	69.5
M398363		0.06	0.48	0.22	<0.1	0.5	<0.005	0.04	6.5	0.5	1.00	87	1.18	0.01	0.4	12.9
M398364		1.33	6.30	0.22	0.8	26.6	0.020	0.84	45.1	8.7	0.27	265	63.1	0.01	3.7	258

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224097**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398229		450	21.0	53.0	0.002	0.01	9.52	4.7	8	0.8	298	0.30	<0.05	3.7	0.125	13.35
M398230		510	16.4	47.9	<0.002	<0.01	13.55	4.3	10	0.7	281	0.25	<0.05	3.2	0.110	11.00
M398231		490	77.3	42.0	0.002	0.01	14.75	3.1	18	0.7	177.0	0.21	<0.05	2.9	0.097	8.53
M398232		360	11.1	26.7	0.003	0.02	8.31	2.1	19	0.5	179.0	0.14	<0.05	2.0	0.062	6.50
M398233		180	1.3	0.8	<0.002	<0.01	0.06	0.2	1	<0.2	50.4	<0.05	<0.05	<0.2	<0.005	0.03
M398234		260	178.0	35.9	0.003	0.01	12.60	3.2	34	0.6	304	0.17	<0.05	2.4	0.081	9.65
M398235		340	115.5	33.4	<0.002	<0.01	11.15	2.8	23	0.5	316	0.17	<0.05	2.6	0.077	13.25
M398236		210	37.0	28.0	0.002	<0.01	8.17	2.8	19	0.5	337	0.14	<0.05	1.9	0.065	12.15
M398237		270	8.5	35.6	0.002	<0.01	11.15	3.3	9	0.6	265	0.19	<0.05	2.6	0.080	15.50
M398238		560	9.8	54.7	0.009	1.47	97.5	5.2	3	2.8	65.9	0.40	0.19	6.6	0.158	2.54
M398239		230	6.5	27.8	0.002	0.01	7.45	2.6	19	0.4	371	0.15	<0.05	1.9	0.064	11.15
M398240		160	2.5	16.6	0.006	0.02	1.91	2.0	13	0.3	388	0.08	<0.05	1.1	0.036	5.01
M398241		240	3.1	20.4	0.006	0.01	2.98	2.4	10	0.3	353	0.11	<0.05	1.3	0.047	6.13
M398242		180	1.6	8.6	0.012	0.03	1.28	1.2	4	0.2	293	<0.05	<0.05	0.6	0.018	1.59
M398243		460	2.7	11.4	0.003	<0.01	3.95	2.0	2	0.2	276	0.05	<0.05	0.8	0.024	2.06
M398244		600	15.1	103.0	0.004	0.01	15.15	7.9	26	1.5	205	0.48	<0.05	6.3	0.204	26.7
M398245		530	13.2	97.4	0.002	0.01	12.85	7.4	4	1.5	254	0.48	0.05	6.4	0.218	24.7
M398246		510	12.6	96.4	0.003	0.01	11.95	7.5	5	1.4	244	0.46	<0.05	6.2	0.208	23.6
M398247		340	9.0	61.5	0.002	0.01	8.51	5.4	4	1.0	243	0.29	<0.05	3.8	0.130	11.85
M398248		630	460	81.9	0.002	<0.01	12.85	6.2	10	1.2	198.5	0.40	<0.05	5.4	0.176	18.65
M398249		520	281	10.4	0.027	0.02	13.90	1.4	4	0.2	202	0.05	<0.05	0.7	0.023	1.87
M398250		210	1.6	1.0	<0.002	<0.01	0.05	0.2	1	<0.2	50.0	<0.05	<0.05	<0.2	<0.005	0.03
M398351		390	93.5	19.7	0.004	<0.01	9.62	1.9	2	0.4	177.5	0.09	<0.05	1.3	0.042	3.40
M398352		410	12.9	9.9	0.079	0.02	1.70	1.1	4	<0.2	196.5	<0.05	<0.05	0.6	0.019	1.49
M398353		430	22.7	15.4	0.006	0.01	3.85	1.7	2	0.3	181.5	0.07	<0.05	1.0	0.034	2.80
M398354		590	49.5	36.6	0.002	<0.01	11.00	3.0	3	0.6	197.0	0.18	0.05	2.3	0.083	8.94
M398355		600	57.7	36.2	0.002	<0.01	11.45	3.1	3	0.6	193.5	0.19	<0.05	2.5	0.084	9.04
M398356		600	14.5	106.5	<0.002	0.02	11.00	8.0	7	1.4	129.0	0.49	0.07	6.3	0.234	35.1
M398357		460	12.8	120.5	<0.002	0.02	8.28	9.4	16	2.0	132.0	0.59	0.06	7.2	0.261	48.7
M398358		280	6.5	71.7	0.005	<0.01	4.11	5.7	6	1.1	210	0.30	0.05	3.6	0.140	28.0
M398359		340	14.5	143.5	0.003	0.02	6.68	12.5	7	2.6	90.6	0.91	0.07	7.5	0.420	107.5
M398360		390	7.2	110.0	<0.002	0.01	2.99	8.3	18	1.3	112.5	0.44	<0.05	5.5	0.197	63.0
M398361		290	18.5	17.5	0.002	0.89	63.3	5.7	3	2.6	230	0.52	0.15	4.3	0.311	12.00
M398362		370	2.4	25.1	0.009	0.05	2.62	2.9	5	0.4	214	0.12	<0.05	1.5	0.057	14.70
M398363		200	0.6	1.7	0.004	<0.01	0.41	0.8	2	<0.2	219	<0.05	<0.05	<0.2	<0.005	1.01
M398364		750	47.9	43.7	0.002	0.02	22.4	6.6	3	0.7	496	0.25	<0.05	2.8	0.112	85.6

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224097**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	ppm	ppm	
LOR		0.1	1	0.1	0.1	2	
						Zr	
						0.5	
M398229		6.1	246	1.0	16.2	2440	36.3
M398230		5.4	197	1.0	14.8	3900	32.2
M398231		5.8	214	1.0	11.5	8630	27.9
M398232		3.5	191	1.0	8.9	891	17.9
M398233		0.4	3	0.1	0.8	25	<0.5
M398234		5.2	155	0.7	12.7	1060	23.5
M398235		4.2	135	0.8	11.1	1780	21.0
M398236		3.6	119	0.8	11.1	1020	18.3
M398237		4.7	135	0.8	11.5	1160	22.4
M398238		5.9	94	71.8	17.6	74	59.2
M398239		3.2	142	0.5	9.4	887	17.5
M398240		3.9	57	0.3	9.5	404	10.3
M398241		4.2	85	0.3	11.1	517	13.2
M398242		4.3	42	0.2	6.0	255	5.5
M398243		6.7	60	0.3	10.5	851	8.3
M398244		10.7	433	1.2	29.1	1910	60.2
M398245		8.5	508	1.1	25.0	1870	58.1
M398246		8.6	489	1.1	25.1	1780	56.4
M398247		5.8	277	0.7	23.6	1250	37.8
M398248		8.3	403	1.3	22.0	1990	46.9
M398249		4.2	60	0.5	10.0	1340	6.5
M398250		0.5	2	0.1	0.9	18	<0.5
M398351		3.4	55	0.8	7.7	1380	11.9
M398352		1.2	25	0.3	4.4	502	5.8
M398353		2.2	65	0.9	6.3	1720	10.2
M398354		3.9	171	1.9	13.8	2660	24.6
M398355		4.0	171	1.9	13.2	2600	24.1
M398356		7.2	482	2.5	27.4	2410	62.5
M398357		7.9	544	3.1	28.7	2050	68.0
M398358		3.5	205	2.5	17.4	1090	37.3
M398359		4.2	362	10.4	20.1	2280	91.0
M398360		2.8	111	2.6	19.5	1360	45.9
M398361		5.5	52	37.7	9.9	30	117.0
M398362		2.6	63	0.8	11.0	883	15.1
M398363		1.8	18	0.6	7.0	348	1.6
M398364		7.3	501	8.2	34.0	4170	33.8



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Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12224097**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12225366**

Project: Rackla Gold (Area C)  
 P.O. No.: 12- 351  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24- SEP- 2012.  
 The following have access to data associated with this certificate:  
 JULIA LANE                      JOAN MARIACHER                      JORDAN MCDIVITT

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.  
 ATTN: JORDAN MCDIVITT  
 C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12213630\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12225366**

Sample Description	Method Analyte Units LOR	Au- AA26 Au ppm 0.01
M398641		0.01
M398642		<0.01
M398643		<0.01
M398644		<0.01
M398645		<0.01
M398646		0.01
M398647		<0.01
M398648		<0.01
M398649		<0.01
M398650		<0.01
M398651		<0.01
M398652		<0.01
M398653		<0.01
M398654		<0.01
M398655		<0.01
M398656		<0.01
M398657		<0.01
M398658		<0.01
M398659		<0.01
M398660		<0.01
M398661		<0.01
M398662		<0.01
M398663		<0.01
M398664		<0.01
M398665		0.29
M398666		0.26
M398667		1.27
M398668		1.27
M398669		<0.01
M398670		<0.01
M398671		<0.01
M398672		0.01
M398673		0.01
M398674		0.03
M398675		4.29
M398676		0.11

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12213630\*\*



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**Account: RCM**

**CERTIFICATE WH1222534**

Project: Rackla Gold - Area C  
 P.O. No.: 12-363  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 24- SEP- 2012.  
 The following have access to data associated with this certificate:

JOAN CARNE JORDAN MCDIVITT	JULIA LANE	JOAN MARIACHER
-------------------------------	------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 25	Wt. of Crushed Reject
PUL- QC	Pulverizing QC Test
FND- 03	Find Reject for Addn Analysis
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 22	Sample login - Rcd w/ o BarCode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
Au- AA26	Ore Grade Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**  
**ATTN: JORDAN MCDIVITT**  
**C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016- 510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12216661\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ATAC RESOURCES LTD.  
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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH1222534**

Sample Description	Method	WEI- 25	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Reject W	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.001	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398499		3.73	5.17	1.07	3.67	608	960	0.99	0.16	2.24	1.05	37.7	5.3	125	10.05	65.0
M398500		5.45	0.07	1.14	3.76	229	1260	1.04	0.16	5.56	0.71	38.7	5.1	129	11.50	65.1
M398251		5.08	1.14	1.19	3.86	208	1110	0.96	0.16	3.89	0.76	38.4	5.2	137	11.75	68.4
M398252		5.41	10.70	1.18	4.03	1535	650	1.09	0.17	0.18	0.96	40.2	5.5	143	12.85	71.4
M398253		6.65	<0.01	0.01	0.06	6	30	<0.05	0.02	21.1	0.05	1.25	1.1	<1	0.16	2.0
M398254		5.25	14.85	1.22	3.69	2450	630	0.99	0.16	0.17	0.87	37.5	4.9	140	9.52	62.4
M398255		4.94	17.60	1.22	3.60	3000	590	0.86	0.15	0.18	0.67	36.3	5.3	128	7.57	55.7
M398256		5.98	14.55	0.83	4.63	2490	650	1.16	0.18	0.44	0.49	45.4	7.7	116	10.00	54.1
M398257		2.49	9.83	0.85	4.29	1275	730	1.15	0.17	1.50	0.46	42.4	5.9	125	9.82	56.3
M398258		2.40	0.38	0.80	4.77	287	1140	1.27	0.18	2.45	0.39	46.3	7.2	115	11.30	58.0
M398259		<0.001	16.10	1.05	1.96	1040	430	0.30	0.52	15.30	0.67	33.5	3.9	34	2.45	61.3
M398260		4.60	7.72	0.96	5.20	1185	660	1.21	0.20	0.67	0.49	49.6	8.1	129	11.65	62.3
M398261		3.99	21.0	0.89	4.90	1525	600	1.23	0.18	0.31	0.61	48.2	7.7	117	10.40	58.0
M398262		4.23	1.15	0.85	4.71	332	790	1.22	0.18	0.99	0.44	47.5	7.4	119	10.90	58.3
M398263		4.96	0.01	0.79	4.87	186.5	1190	1.35	0.20	1.42	0.37	48.1	8.0	115	11.10	59.0
M398264		5.06	0.02	0.88	5.10	256	910	1.33	0.20	0.99	0.33	46.3	8.2	109	10.50	58.4
M398265		9.39	<0.01	0.69	4.50	202	1100	1.20	0.18	3.07	0.32	46.1	7.6	106	9.87	55.0
M398266		6.61	<0.01	0.01	0.05	<5	30	<0.05	0.01	20.6	0.05	1.20	1.1	<1	0.14	1.5
M398267		9.70	<0.01	0.82	5.08	448	1190	1.28	0.20	1.61	0.38	50.3	7.7	109	11.60	54.3
M398268		11.70	0.04	0.72	4.58	433	1160	1.15	0.19	2.59	0.49	46.0	7.8	96	11.65	52.6
M398269		10.80	<0.01	0.88	4.95	168.0	1330	1.38	0.19	2.23	0.39	47.4	8.1	112	11.00	56.7
M398270		9.78	<0.01	0.99	4.67	2140	950	1.24	0.18	1.78	0.39	43.8	6.8	104	11.05	53.5
M398271		4.52	<0.01	1.05	5.11	1800	1180	1.29	0.19	1.94	0.34	46.4	7.6	110	11.05	55.3
M398272		11.85	<0.01	1.14	4.94	141.5	1200	1.36	0.17	2.74	0.62	44.1	7.6	125	11.75	55.2
M398273		10.20	<0.01	1.16	4.41	328	920	0.99	0.15	4.10	0.44	39.2	6.2	116	11.15	51.9
M398274		<0.001	0.27	0.78	1.93	491	870	0.30	0.22	1.10	0.39	38.6	4.4	79	2.14	45.3
M398275		11.35	<0.01	0.96	5.29	197.5	1260	1.57	0.20	1.61	0.38	49.6	8.1	108	13.55	56.8
M398276		11.90	<0.01	1.01	5.07	108.5	1470	1.54	0.18	2.18	0.70	45.7	7.6	114	13.50	55.9
M398277		5.40	<0.01	2.43	5.13	146.0	1100	1.58	0.16	0.13	0.37	44.3	5.1	188	14.95	61.4
M398278		3.18	<0.01	3.77	5.22	405	1160	1.37	0.17	0.17	1.07	43.4	8.1	252	15.50	99.6
M398279		4.87	<0.01	1.20	5.00	375	1690	1.38	0.16	0.10	0.09	42.2	3.7	112	20.1	69.9
M398280		<0.001	<0.01	1.12	4.83	349	3530	1.32	0.16	0.10	0.08	41.9	3.7	109	18.95	67.0
M398281		7.97	<0.01	1.25	5.17	757	1570	1.35	0.19	0.11	0.25	50.6	4.8	108	13.05	69.8
M398282		6.86	<0.01	1.19	5.01	1385	1610	1.14	0.18	0.19	0.37	49.7	3.0	111	13.95	36.5
M398283		6.69	<0.01	1.15	5.15	518	3910	1.17	0.22	0.12	0.06	54.7	0.6	116	13.05	19.8
M398284		7.41	<0.01	2.16	4.99	1015	3410	1.21	0.17	0.15	0.21	51.3	0.7	160	11.80	45.0

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12216661\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH1222534**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M398499		1.82	10.45	0.17	2.0	37.7	0.039	1.38	28.6	13.9	0.25	43	10.05	0.03	7.4	111.0
M398500		1.70	10.20	0.18	2.0	11.1	0.040	1.43	29.0	9.7	0.45	54	10.55	0.03	7.7	108.5
M398251		1.79	10.45	0.16	2.0	22.7	0.038	1.49	28.8	10.2	0.40	56	13.40	0.03	8.0	116.0
M398252		1.74	11.60	0.16	2.1	>100	0.030	1.51	30.2	24.1	0.19	17	13.10	0.03	8.0	120.0
M398253		0.48	0.21	<0.05	<0.1	0.12	<0.005	0.03	0.6	0.9	12.45	201	0.22	<0.01	0.2	4.5
M398254		1.94	10.75	0.14	2.0	98.1	0.031	1.40	28.0	27.9	0.19	15	11.35	0.02	7.7	120.0
M398255		2.45	10.35	0.15	2.0	92.6	0.026	1.41	26.1	28.1	0.18	21	12.45	0.02	7.4	110.0
M398256		2.78	13.05	0.16	2.4	91.0	0.035	1.89	29.1	22.1	0.27	50	5.08	0.03	9.1	80.7
M398257		2.65	11.80	0.15	2.2	55.0	0.034	1.68	29.4	16.1	0.24	40	4.33	0.03	8.7	78.5
M398258		2.66	12.65	0.15	2.3	10.1	0.044	1.82	30.0	13.1	0.53	85	4.24	0.03	9.2	82.2
M398259		3.70	3.63	0.11	0.9	5.52	0.054	0.41	18.8	36.3	0.75	475	13.10	0.01	3.7	23.4
M398260		3.14	14.00	0.17	2.6	34.8	0.045	1.97	30.8	16.0	0.37	56	4.38	0.03	9.9	86.9
M398261		2.98	13.70	0.16	2.4	90.8	0.036	1.86	31.7	17.7	0.21	49	4.56	0.03	9.3	89.1
M398262		2.61	13.05	0.16	2.4	9.07	0.045	1.76	30.6	11.6	0.44	63	3.27	0.03	9.4	81.3
M398263		2.33	13.70	0.15	2.4	2.55	0.048	1.76	30.4	12.3	0.58	107	5.20	0.03	9.7	79.9
M398264		2.40	14.20	0.16	2.4	2.14	0.047	1.86	28.0	17.9	0.45	100	4.77	0.03	9.8	78.6
M398265		2.77	12.35	0.16	2.2	1.45	0.042	1.69	29.3	10.8	0.74	119	2.88	0.03	9.1	74.0
M398266		0.46	0.20	0.05	<0.1	0.02	<0.005	0.02	0.6	0.8	12.20	203	0.20	<0.01	0.2	4.0
M398267		2.33	14.30	0.13	2.4	1.40	0.047	1.90	30.6	17.9	0.53	132	4.56	0.03	10.0	70.0
M398268		2.54	13.10	0.13	2.3	1.75	0.052	1.72	28.0	15.7	0.64	124	2.73	0.03	9.3	69.1
M398269		2.56	13.95	0.16	2.4	1.60	0.046	1.90	28.3	14.8	0.60	128	6.76	0.03	9.9	79.9
M398270		3.43	12.75	0.17	2.3	2.80	0.049	1.68	25.6	16.1	0.57	110	4.57	0.03	9.1	73.8
M398271		3.36	14.05	0.16	2.4	2.53	0.049	1.87	26.7	14.2	0.65	123	4.39	0.03	9.6	75.1
M398272		2.66	13.00	0.15	2.3	2.16	0.047	1.77	26.4	12.6	0.66	113	8.31	0.03	8.9	84.6
M398273		2.43	11.60	0.13	2.1	1.90	0.038	1.64	24.3	15.6	0.57	134	5.66	0.02	7.8	74.9
M398274		4.02	5.72	0.12	3.6	3.72	0.032	0.45	20.1	26.9	0.06	77	15.95	0.11	8.2	20.0
M398275		2.78	14.55	0.15	2.6	1.53	0.050	1.91	29.6	14.9	0.69	118	5.09	0.04	10.1	80.4
M398276		2.64	13.65	0.17	2.3	1.43	0.048	1.85	28.0	13.3	0.50	88	9.74	0.04	9.1	86.3
M398277		2.10	14.20	0.19	2.5	0.98	0.043	1.85	27.6	16.0	0.25	22	5.17	0.04	9.6	98.9
M398278		2.65	13.95	0.20	2.4	2.39	0.067	1.88	28.0	16.4	0.24	25	10.20	0.04	9.3	163.5
M398279		2.41	13.90	0.14	2.3	2.22	0.066	1.78	24.4	20.2	0.22	59	2.97	0.03	8.7	42.3
M398280		2.32	13.40	0.16	2.2	2.21	0.059	1.70	25.4	19.6	0.21	54	2.84	0.03	8.4	40.1
M398281		2.70	14.90	0.16	2.5	0.61	0.045	1.83	31.1	19.3	0.24	70	5.38	0.04	9.8	40.8
M398282		3.51	14.80	0.18	2.4	0.73	0.073	1.97	30.3	16.9	0.24	33	6.09	0.03	9.1	31.0
M398283		1.66	15.10	0.14	2.6	0.60	0.047	2.02	35.7	16.5	0.26	14	4.64	0.04	10.3	13.5
M398284		2.00	14.20	0.17	2.5	0.70	0.059	1.85	34.5	19.7	0.23	20	4.94	0.03	9.3	26.2

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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH1222534**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398499		600	12.8	76.4	0.023	1.84	2.35	8.2	12	1.9	122.5	0.50	0.07	5.9	0.230	45.4
M398500		620	9.2	78.7	0.027	1.48	1.85	10.9	12	1.2	300	0.52	0.07	6.1	0.239	5.34
M398251		530	8.5	80.5	0.027	1.56	1.86	10.0	12	1.4	207	0.53	0.08	6.1	0.250	12.00
M398252		510	9.0	81.0	0.029	1.86	1.91	6.0	12	2.3	50.9	0.54	0.07	6.4	0.254	77.2
M398253		190	1.3	1.2	<0.002	0.01	<0.05	0.2	2	<0.2	47.9	<0.05	<0.05	<0.2	<0.005	0.09
M398254		520	8.9	75.6	0.031	2.17	2.47	5.1	12	2.4	53.0	0.53	0.06	6.1	0.236	100.0
M398255		550	9.9	70.7	0.024	2.76	2.82	5.1	10	2.4	61.7	0.50	0.08	5.8	0.230	96.7
M398256		1060	11.7	92.1	0.011	3.00	2.96	8.4	8	2.4	92.5	0.61	0.10	7.0	0.288	98.3
M398257		650	10.5	84.1	0.007	2.88	2.30	8.7	8	2.0	80.2	0.59	0.10	6.5	0.272	60.4
M398258		820	11.8	92.2	0.011	2.40	2.26	12.2	8	1.5	133.0	0.62	0.09	7.0	0.296	8.59
M398259		700	21.0	25.1	0.008	1.99	159.0	3.6	3	2.0	48.5	0.25	0.35	3.8	0.116	3.66
M398260		710	13.0	101.0	0.009	3.15	4.12	11.4	10	2.2	88.9	0.66	0.11	7.7	0.311	49.0
M398261		1160	12.1	95.1	0.010	3.19	4.53	8.2	9	2.9	99.6	0.63	0.11	7.5	0.298	113.0
M398262		930	11.7	93.7	0.010	2.40	2.38	11.9	9	1.6	126.5	0.62	0.09	7.2	0.296	11.40
M398263		650	11.7	96.5	0.012	1.68	2.88	13.6	6	1.6	142.5	0.64	0.10	7.4	0.305	3.31
M398264		650	13.1	97.0	0.010	2.14	3.96	13.2	8	1.6	112.5	0.66	0.11	7.1	0.309	4.42
M398265		810	11.3	87.9	0.010	1.94	2.76	13.8	6	1.4	175.0	0.60	0.08	6.7	0.286	3.87
M398266		190	1.1	1.0	<0.002	<0.01	<0.05	0.2	1	<0.2	47.7	<0.05	<0.05	<0.2	<0.005	0.04
M398267		590	12.5	101.0	0.016	1.81	4.27	12.7	6	1.6	155.5	0.67	0.12	7.5	0.316	7.70
M398268		710	11.8	90.2	0.008	1.97	4.62	13.5	7	1.5	197.5	0.61	0.10	6.9	0.288	6.05
M398269		650	12.4	97.1	0.014	2.14	4.08	13.9	8	1.6	188.0	0.65	0.12	7.1	0.304	2.64
M398270		970	11.2	87.8	0.012	3.28	3.65	12.5	8	1.5	174.5	0.61	0.09	6.6	0.282	19.75
M398271		1110	12.0	94.5	0.011	3.08	3.41	14.2	8	1.6	179.5	0.63	0.10	7.5	0.306	15.85
M398272		1540	11.7	92.3	0.019	2.42	4.89	13.8	10	1.5	227	0.59	0.11	6.7	0.293	2.92
M398273		1010	9.8	81.3	0.012	2.26	5.42	11.9	9	1.4	302	0.53	0.08	5.8	0.259	2.94
M398274		290	18.0	17.3	0.002	0.90	60.6	5.4	3	2.5	239	0.54	0.13	4.3	0.322	12.10
M398275		1140	12.7	102.0	0.011	2.37	2.40	14.9	8	1.7	143.5	0.68	0.11	7.4	0.324	2.37
M398276		1240	12.3	96.9	0.021	2.50	3.08	13.1	9	1.6	189.5	0.63	0.10	6.8	0.306	2.77
M398277		530	10.8	103.5	0.016	2.03	2.30	12.8	18	1.6	102.0	0.64	0.08	7.2	0.309	3.25
M398278		690	10.4	101.0	0.013	2.83	2.15	12.1	20	1.5	110.0	0.63	0.07	6.9	0.320	3.26
M398279		700	11.7	95.0	0.010	1.48	4.23	17.2	9	1.5	199.5	0.58	0.09	6.7	0.289	2.35
M398280		680	10.9	92.2	0.009	1.48	4.09	16.5	9	1.5	195.5	0.57	0.09	6.3	0.278	2.23
M398281		640	12.6	100.5	0.008	1.36	2.98	12.0	7	1.6	190.5	0.65	0.12	7.6	0.312	1.47
M398282		1350	12.0	101.0	0.009	1.14	5.51	14.5	7	1.6	536	0.61	0.11	7.4	0.300	2.23
M398283		700	13.7	106.5	0.020	0.43	2.92	17.8	6	1.7	277	0.68	0.10	8.5	0.335	1.65
M398284		1200	11.2	96.1	0.015	0.29	2.53	16.7	10	1.6	503	0.62	0.08	7.8	0.311	1.36

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12216661\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Finalized Date: 1- OCT- 2012  
 Account: RCM

Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH1222534**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
M398499		9.6	183	4.3	29.8	340	75.7
M398500		10.0	180	4.6	33.5	280	76.4
M398251		10.5	183	4.2	29.9	335	76.9
M398252		10.6	198	6.2	25.5	297	77.2
M398253		0.6	3	0.1	0.9	14	<0.5
M398254		10.8	184	5.8	26.2	267	76.9
M398255		9.5	175	4.8	24.2	246	77.7
M398256		5.9	227	5.7	26.8	192	89.7
M398257		5.4	227	5.7	25.7	231	80.6
M398258		5.7	221	4.5	28.4	215	87.8
M398259		3.5	115	223	17.0	81	34.3
M398260		6.4	240	5.5	30.4	272	96.9
M398261		6.7	242	5.5	30.9	234	92.0
M398262		5.6	234	4.3	30.2	229	91.5
M398263		5.6	231	3.3	25.4	201	91.2
M398264		5.6	238	4.0	26.2	165	89.6
M398265		4.8	213	2.3	27.3	173	84.9
M398266		0.7	3	0.1	0.8	14	0.5
M398267		5.9	250	3.1	26.3	169	88.8
M398268		4.6	215	4.1	26.7	248	86.7
M398269		6.1	241	3.4	27.3	205	88.7
M398270		5.5	225	2.8	26.8	190	84.6
M398271		5.9	243	2.9	27.9	185	89.0
M398272		6.8	254	3.1	28.9	246	83.5
M398273		5.4	220	3.4	25.4	243	74.7
M398274		5.7	55	36.5	10.3	31	124.0
M398275		5.5	251	2.0	28.3	224	94.6
M398276		7.5	268	1.9	26.5	275	82.1
M398277		5.1	238	2.1	22.8	121	91.4
M398278		5.2	239	2.0	27.6	435	90.3
M398279		4.2	235	3.2	18.9	135	87.0
M398280		4.0	229	3.0	17.9	131	82.8
M398281		4.5	242	2.5	19.5	65	92.6
M398282		4.4	259	2.4	17.6	62	87.5
M398283		5.3	266	2.8	16.6	12	93.8
M398284		5.4	263	3.3	20.1	40	91.9

Comments: \*\*RE- ASSAY RESULTS FOR SAMPLES ORIGINALLY REPORTED ON CERTIFICATE WH12216661\*\*

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: Rackla Gold - Area C

**CERTIFICATE OF ANALYSIS WH12225534**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (5 ppm DL)



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**CERTIFICATE WH12225649**

Project: Rackla Gold (Area C)  
 P.O. No.: 12-378  
 This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26- SEP- 2012.  
 The following have access to data associated with this certificate:

ROB CARNE JOAN MARIACHER	JOAN CARNE JORDAN MCDIVITT	JULIA LANE
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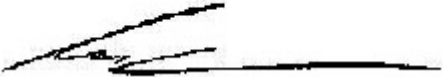
<b>SAMPLE PREPARATION</b>	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70%<2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%<75 um
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate

<b>ANALYTICAL PROCEDURES</b>		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	
Hg- CV41	Trace Hg - cold vapor/ AAS	FIMS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
As- OG62	Ore Grade As - Four Acid	VARIABLE
Hg- CV42	High Grade Hg - cold vapor/ AA	FIMS

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12225649**

Sample Description	Method	WEI- 21	Au- AA26	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M398365		7.35	0.46	1.94	1.78	1450	370	0.50	0.35	9.46	15.15	52.9	8.6	36	4.99	18.7
M398366		4.07	0.28	3.38	1.98	7140	680	0.52	0.10	1.21	25.2	97.7	8.5	59	6.94	30.4
M398367		6.91	<0.01	0.03	0.07	27	30	0.06	0.11	19.80	0.15	1.50	0.7	<1	0.15	5.6
M398368		4.68	0.06	2.08	1.30	>10000	380	0.69	0.06	15.75	33.7	49.9	23.3	33	3.21	22.8
M398369		4.27	0.01	0.66	0.04	2280	80	0.24	0.03	35.7	13.75	4.84	3.6	1	0.10	4.2
M398370		4.15	<0.01	1.72	0.08	4670	160	0.19	0.02	35.5	25.6	12.00	4.5	3	0.26	7.6
M398371		1.63	<0.01	2.55	0.03	>10000	120	0.18	0.02	35.5	39.4	6.63	4.2	2	0.09	9.5
M398372		1.66	0.01	0.76	0.04	2240	60	0.11	0.03	34.1	34.3	3.75	1.9	7	0.11	6.1
M398373		1.99	<0.01	0.16	0.02	210	10	0.26	0.02	33.2	8.31	0.49	1.7	<1	<0.05	0.8
M398374		0.26	16.00	0.95	1.87	1100	500	0.38	0.57	14.45	0.71	32.3	3.6	34	2.36	64.4
M398375		2.53	0.02	1.22	0.08	2280	160	0.13	0.03	33.8	18.10	7.91	0.6	3	0.21	6.4
M398376		3.10	0.01	0.16	0.02	278	20	0.06	0.01	34.6	4.52	0.49	1.3	<1	<0.05	1.8
M398377		3.86	0.06	3.44	0.08	8280	130	0.16	0.02	34.5	50.7	6.01	2.4	7	0.29	11.7
M398378		<0.02	0.06	3.77	0.08	8060	130	0.22	0.02	34.6	52.7	6.27	2.7	7	0.54	12.1
M398379		3.57	0.04	1.17	0.09	1340	100	0.11	0.60	35.3	21.9	4.54	1.0	4	0.22	5.1
M398380		8.78	0.01	0.99	0.07	401	40	0.20	0.03	34.0	14.55	2.94	0.6	<1	0.38	5.6
M398381		8.54	0.01	0.73	0.12	283	110	0.12	0.04	34.5	10.55	7.61	0.5	5	0.83	7.6
M398382		6.91	<0.01	0.02	0.05	6	20	0.05	0.04	20.6	0.12	1.01	0.6	<1	0.09	1.2
M398383		4.43	0.03	1.83	1.52	1730	190	0.89	0.08	31.5	20.6	27.1	7.4	54	13.50	34.1
M398384		4.22	<0.01	0.65	0.15	528	40	0.20	0.11	34.3	20.1	2.84	12.3	1	1.14	9.2
M398385		0.26	4.19	0.70	2.66	418	760	0.55	0.45	9.85	0.57	41.6	4.5	41	2.45	33.0
M398386		4.47	<0.01	0.73	0.04	75	30	0.08	0.08	36.2	17.50	1.54	1.3	<1	<0.05	3.2
M398387		5.06	<0.01	2.31	0.02	292	30	0.09	0.03	34.8	14.95	1.01	1.0	<1	<0.05	4.9
M398388		5.54	<0.01	0.78	0.04	102	40	0.07	0.11	36.7	7.52	1.33	1.9	<1	0.15	2.6
M398389		7.05	<0.01	1.03	0.02	314	40	0.10	0.02	33.1	10.85	1.47	5.5	<1	0.06	5.1
M398390		6.83	<0.01	0.54	0.03	45	40	0.11	0.04	35.7	5.47	1.56	3.0	<1	<0.05	1.5
M398391		2.96	<0.01	0.48	0.03	43	40	0.06	0.02	35.9	5.68	1.41	3.0	<1	0.06	1.3
M398392		3.70	<0.01	0.37	0.02	43	50	0.11	0.03	33.9	6.39	2.28	0.7	<1	0.05	1.8
M398393		3.76	<0.01	0.38	0.02	43	60	0.09	0.03	35.3	9.00	1.69	1.1	<1	<0.05	1.6
M398394		0.90	<0.01	0.99	0.04	115	40	0.11	0.02	35.1	10.05	2.73	0.6	<1	0.10	4.4
M398395		5.61	<0.01	0.34	0.05	114	60	0.18	0.02	34.6	10.90	2.41	0.8	<1	0.13	6.0
M398396		1.31	<0.01	1.72	1.28	992	180	1.13	0.09	32.5	35.5	11.05	3.8	7	0.69	51.8
M398397		7.39	<0.01	0.60	0.03	85	70	0.08	0.02	37.1	8.27	1.50	0.4	<1	<0.05	3.2
M398398		3.63	<0.01	0.62	0.67	222	370	0.43	0.05	31.4	26.3	22.2	5.8	39	2.39	26.5
M398399		5.17	<0.01	0.65	0.87	244	650	0.56	0.08	24.9	23.6	24.4	3.1	48	2.90	32.3
M398400		4.79	<0.01	0.34	0.64	193	340	0.44	0.04	25.5	22.1	15.10	2.4	22	2.45	19.5



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 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12225649**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Hg- CV41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
M398365		0.93	5.22	0.23	0.8	64.0	0.011	0.73	53.0	10.2	0.66	158	31.1	0.02	3.5	181.5
M398366		1.18	6.20	0.32	0.9	>100	0.019	0.81	102.0	11.3	0.18	148	14.05	0.01	4.0	68.9
M398367		0.47	0.24	0.23	<0.1	0.50	<0.005	0.03	0.8	1.1	11.90	197	0.26	0.01	0.2	2.2
M398368		1.72	4.12	0.22	0.6	42.1	0.015	0.54	56.4	7.6	0.18	608	33.3	0.01	2.4	210
M398369		0.20	0.21	0.21	0.1	12.1	<0.005	0.01	6.5	0.5	0.13	268	2.45	0.01	0.1	24.4
M398370		0.37	0.46	0.20	0.1	11.4	<0.005	0.02	15.7	0.6	0.12	416	4.73	0.01	0.2	54.1
M398371		0.85	0.29	0.16	<0.1	9.9	<0.005	0.01	9.4	0.5	0.12	277	15.55	0.01	0.1	71.7
M398372		0.22	0.41	0.17	<0.1	11.7	<0.005	0.01	4.8	0.5	0.14	130	3.84	0.01	0.1	92.4
M398373		0.03	0.09	0.21	<0.1	0.7	<0.005	<0.01	0.5	0.4	0.09	494	0.37	<0.01	<0.1	5.4
M398374		3.57	4.04	0.16	0.9	5.54	0.056	0.37	16.7	40.8	0.69	436	11.90	0.01	3.3	20.6
M398375		0.23	0.40	0.17	0.1	11.2	<0.005	0.02	10.5	0.6	0.12	180	3.15	0.01	0.2	15.2
M398376		0.08	0.08	0.21	<0.1	0.7	<0.005	<0.01	0.5	0.3	0.09	195	1.50	<0.01	<0.1	3.3
M398377		0.99	0.47	0.18	<0.1	25.9	<0.005	0.03	7.5	0.6	0.37	159	13.95	0.01	0.2	85.1
M398378		0.95	0.50	0.19	0.1	29.1	<0.005	0.03	7.9	0.5	0.36	154	13.90	0.01	0.2	86.4
M398379		0.28	0.40	0.21	<0.1	8.5	<0.005	0.04	5.4	0.6	0.55	71	2.25	0.01	0.2	26.9
M398380		0.18	0.26	0.20	<0.1	4.8	<0.005	0.02	3.5	0.5	0.20	102	0.95	0.01	0.1	23.6
M398381		0.22	0.52	0.22	0.1	7.9	<0.005	0.04	10.0	0.7	0.14	78	1.02	0.01	0.3	29.7
M398382		0.47	0.18	0.29	<0.1	0.02	<0.005	0.02	<0.5	0.8	12.20	201	0.09	0.01	0.1	2.0
M398383		1.13	5.08	0.30	0.7	30.7	0.017	0.57	37.8	6.7	0.23	179	13.00	0.01	1.8	209
M398384		0.55	0.51	0.20	0.1	7.2	<0.005	0.05	3.5	0.8	0.14	147	3.42	0.01	0.2	77.6
M398385		1.79	6.32	0.22	1.5	5.09	0.017	0.80	21.5	52.0	4.80	332	8.91	0.01	5.1	28.8
M398386		0.12	0.09	0.25	<0.1	1.31	<0.005	0.01	2.0	0.4	0.13	65	0.61	0.01	0.1	8.1
M398387		0.05	0.10	0.29	<0.1	4.9	<0.005	0.01	1.4	0.3	0.76	56	2.43	0.01	<0.1	9.8
M398388		0.09	0.13	0.30	<0.1	2.2	<0.005	0.01	1.8	0.4	0.20	64	0.84	0.01	0.1	11.0
M398389		0.09	0.13	0.24	<0.1	2.8	<0.005	0.01	2.1	0.3	1.00	110	2.09	<0.01	<0.1	17.4
M398390		0.04	0.12	0.29	<0.1	0.6	<0.005	0.01	2.0	0.3	0.58	119	0.54	0.01	0.1	6.3
M398391		0.04	0.11	0.28	<0.1	0.6	<0.005	0.01	1.9	0.3	0.57	118	0.50	0.01	0.1	6.2
M398392		0.04	0.11	0.24	<0.1	0.4	<0.005	0.01	3.2	0.3	0.17	102	0.40	<0.01	<0.1	4.0
M398393		0.05	0.09	0.30	<0.1	0.62	<0.005	0.01	2.4	0.3	0.35	86	0.42	<0.01	0.1	3.7
M398394		0.11	0.14	<0.05	<0.1	0.1	<0.005	0.01	3.4	0.4	0.21	69	0.78	0.01	0.1	11.7
M398395		0.16	0.15	0.07	<0.1	0.1	<0.005	0.01	2.8	0.4	0.21	82	1.84	0.01	0.1	13.4
M398396		1.96	1.03	0.06	0.1	4.0	0.006	0.07	11.4	1.4	0.15	117	54.6	0.01	0.4	158.5
M398397		0.06	0.09	<0.05	<0.1	1.2	<0.005	<0.01	2.7	0.4	0.24	52	3.12	0.01	<0.1	6.5
M398398		0.68	2.05	0.10	0.3	1.4	0.007	0.29	30.7	3.5	1.06	187	9.67	0.01	1.2	64.1
M398399		0.63	2.33	0.08	0.4	0.6	<0.005	0.37	35.3	5.6	0.75	97	9.99	0.01	1.4	69.7
M398400		0.51	1.76	0.07	0.3	0.62	<0.005	0.24	18.7	4.6	0.34	88	6.33	0.01	1.1	54.9



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 Finalized Date: 3- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12225649**

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units LOR	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M398365		770	24.8	36.2	0.009	0.02	27.2	3.7	3	0.8	502	0.23	0.08	3.6	0.100	71.6
M398366		1270	43.2	39.4	0.004	0.03	26.5	2.5	2	0.9	783	0.26	0.08	4.0	0.105	152.5
M398367		180	1.8	1.1	0.003	0.01	0.20	0.2	<1	0.3	47.4	<0.05	<0.05	0.2	<0.005	0.45
M398368		1470	102.5	25.5	0.003	0.01	49.0	4.8	2	0.6	528	0.15	0.05	2.8	0.066	387
M398369		430	48.8	0.5	0.003	<0.01	7.67	5.4	2	<0.2	241	<0.05	<0.05	<0.2	<0.005	113.0
M398370		710	107.5	1.0	0.002	<0.01	10.95	3.2	1	<0.2	281	<0.05	<0.05	0.2	<0.005	560
M398371		1040	183.5	0.2	0.003	<0.01	28.9	4.6	1	<0.2	200	<0.05	0.05	0.2	<0.005	153.5
M398372		520	157.0	0.4	0.003	<0.01	22.6	2.8	2	<0.2	157.5	<0.05	<0.05	0.2	<0.005	15.15
M398373		30	5.5	<0.1	0.003	<0.01	1.25	0.6	1	<0.2	242	<0.05	<0.05	<0.2	<0.005	33.9
M398374		650	21.5	23.2	0.006	1.84	152.5	3.8	2	2.0	49.4	0.22	0.42	4.1	0.105	3.69
M398375		510	40.9	1.0	0.004	<0.01	7.49	4.2	1	<0.2	246	<0.05	<0.05	0.2	<0.005	15.85
M398376		30	7.8	0.1	<0.002	<0.01	1.07	2.3	1	<0.2	158.0	<0.05	<0.05	<0.2	<0.005	5.22
M398377		730	634	1.1	0.002	<0.01	42.4	2.0	4	<0.2	157.5	<0.05	0.05	0.3	<0.005	46.3
M398378		700	592	1.1	0.002	<0.01	44.5	2.1	4	<0.2	155.5	<0.05	<0.05	0.3	<0.005	46.4
M398379		350	185.5	1.7	0.004	<0.01	14.25	1.3	1	<0.2	136.0	<0.05	<0.05	0.3	<0.005	8.14
M398380		210	107.5	1.0	0.002	<0.01	7.42	1.1	1	<0.2	109.0	<0.05	<0.05	0.2	<0.005	4.03
M398381		480	49.3	1.9	0.005	<0.01	12.20	1.1	1	<0.2	156.5	<0.05	<0.05	0.3	0.005	2.81
M398382		180	2.0	0.6	0.002	<0.01	0.14	0.1	<1	<0.2	42.8	<0.05	<0.05	<0.2	<0.005	0.07
M398383		900	502	29.6	0.003	0.01	36.1	6.0	7	0.6	133.0	0.12	<0.05	2.4	0.048	39.0
M398384		190	634	2.4	0.002	<0.01	9.24	0.8	11	<0.2	109.0	<0.05	<0.05	0.2	<0.005	6.23
M398385		520	10.0	41.9	0.007	1.34	92.3	4.3	2	2.7	55.8	0.34	0.25	6.9	0.143	2.42
M398386		110	23.6	0.3	0.004	<0.01	1.26	0.5	<1	<0.2	130.0	<0.05	<0.05	<0.2	<0.005	1.48
M398387		130	922	0.2	0.004	<0.01	16.05	0.2	1	<0.2	125.5	<0.05	<0.05	<0.2	<0.005	0.93
M398388		100	268	0.6	0.004	<0.01	1.94	0.3	1	<0.2	124.5	<0.05	<0.05	<0.2	<0.005	1.30
M398389		150	867	0.3	0.003	<0.01	4.60	0.4	1	<0.2	117.0	<0.05	<0.05	<0.2	<0.005	2.91
M398390		200	22.2	0.4	0.004	<0.01	1.50	0.5	2	<0.2	122.0	<0.05	<0.05	<0.2	<0.005	1.91
M398391		170	23.3	0.3	0.003	<0.01	1.42	0.4	2	<0.2	122.0	<0.05	<0.05	<0.2	<0.005	1.77
M398392		110	55.1	0.3	<0.002	<0.01	2.37	0.7	1	<0.2	167.5	<0.05	<0.05	<0.2	<0.005	0.50
M398393		90	44.7	0.4	0.003	<0.01	1.60	0.8	1	<0.2	169.0	<0.05	<0.05	<0.2	<0.005	0.52
M398394		190	37.4	0.6	<0.002	<0.01	3.08	0.7	1	<0.2	128.5	<0.05	0.06	<0.2	<0.005	0.29
M398395		220	17.9	0.7	<0.002	<0.01	2.54	0.9	2	<0.2	109.5	<0.05	<0.05	<0.2	<0.005	0.22
M398396		840	2190	3.5	<0.002	<0.01	23.6	1.8	7	0.2	214	<0.05	<0.05	0.4	0.009	1.23
M398397		140	431	0.2	0.004	<0.01	6.32	0.2	1	<0.2	206	<0.05	0.05	<0.2	<0.005	0.14
M398398		820	85.1	12.9	0.002	0.02	11.55	2.2	12	0.3	379	0.07	0.09	1.3	0.036	1.60
M398399		620	8.4	17.8	0.003	0.04	7.11	2.8	8	0.4	376	0.10	0.10	1.8	0.046	2.12
M398400		380	4.7	13.0	0.006	0.02	4.81	2.2	7	0.3	280	0.07	0.06	1.2	0.032	1.34





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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)  
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 Finalized Date: 3- OCT- 2012  
 Account: RCM

Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12225649**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	As- OG62	Hg- CV42
		U	V	W	Y	Zn	Zr	As	Hg
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.1	1	0.1	0.1	2	0.5	0.001	0.1
M398365		8.3	559	7.2	32.2	2480	28.2		
M398366		10.8	826	7.4	33.2	975	31.7		199.0
M398367		1.0	4	0.1	1.0	19	<0.5		
M398368		13.4	509	8.5	38.3	2940	21.9	1.785	
M398369		4.3	94	2.7	40.1	518	5.0		
M398370		6.4	112	2.2	24.4	1600	4.3		
M398371		8.1	153	3.1	30.3	2990	6.3	1.085	
M398372		7.2	124	1.4	13.2	2640	2.3		
M398373		0.6	33	7.7	16.0	86	1.3		
M398374		3.6	104	221	16.8	75	28.8		
M398375		7.0	111	1.4	21.8	384	3.6		
M398376		0.9	40	1.4	15.0	47	0.9		
M398377		7.5	212	1.4	19.9	1150	3.8		
M398378		7.5	207	1.4	20.4	1110	3.9		
M398379		6.7	77	3.1	9.3	335	2.8		
M398380		6.0	62	3.0	7.3	248	1.9		
M398381		7.6	77	1.1	11.3	243	3.4		
M398382		0.7	2	0.1	0.7	13	<0.5		
M398383		13.6	827	2.4	47.0	1590	28.3		
M398384		6.4	153	0.7	8.2	919	2.7		
M398385		5.8	87	66.6	15.0	67	45.8		
M398386		6.7	19	0.3	6.4	175	0.8		
M398387		6.7	65	0.1	2.3	1190	0.7		
M398388		5.2	59	0.2	3.0	178	1.0		
M398389		5.8	158	0.2	3.5	352	1.4		
M398390		7.3	25	0.2	4.2	54	1.4		
M398391		6.8	25	0.2	4.1	58	1.4		
M398392		4.0	30	0.2	6.5	46	1.1		
M398393		4.6	25	0.2	5.5	39	0.8		
M398394		4.8	35	4.9	5.2	85	1.2		
M398395		4.7	39	0.4	6.9	130	1.2		
M398396		6.4	450	1.2	42.0	2870	6.0		
M398397		3.6	56	0.6	4.4	235	0.7		
M398398		5.0	383	1.0	29.5	979	15.4		
M398399		5.5	619	0.6	29.7	650	18.4		
M398400		3.8	371	0.5	18.8	494	12.3		



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Project: Rackla Gold (Area C)

**CERTIFICATE OF ANALYSIS WH12225649**

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.
Hg- CV41	Detection limits on samples requiring dilutions due to interferences or high concentration levels have been increased according to the dilution factor.
ME- MS61	Interference: Samples with Ca > 10% on ICP- MS As. ICP- AES As results reported (5 ppm DL)

**APPENDIX XII**  
**GEOPHYSICAL SURVEY DATA**



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## MEMORANDUM

**To:** Rob Carne

**Date:** May 18<sup>th</sup>, 2012

**From:** Mac Clohan

**Re:** Field Report - Ocelot and Kathy Mag VLF surveys

---

This memorandum report describes Total Field Magnetism (TFM) and VLF ground geophysical surveys conducted for ATAC on the Ocelot and Kathy grids. During the period of May 7<sup>th</sup> to May 16<sup>th</sup>, 2012, a total of 26.5 line kilometres (10.5 on the Ocelot grid and 16.0 on the Kathy grid) of TFM and VLF surveying were completed.

**a. Personnel:** The ground geophysical surveys were conducted by the following personnel:

Mac Clohan	Crew Chief	May 7 - May 16, 2012
------------	------------	----------------------

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**b. Instruments and Equipment:** The crew was equipped with the following instruments and equipment.

Mag Survey	1 - GEM Systems GSM-19 VLF magnetometers
	2 - GEM Systems GSM-19 Base magnetometers
	1 - Handheld non differential GPS

**c. Survey Location:** While surveying the crew stayed at ATAC's Rau Camp. A 520 Fireweed helicopter used a gravel pit 10km past Elsa on the Silvertrail highway to mobilize gear and crew into camp. The Ocelot grid is located roughly 10km NW of the Rau Camp and occupies NTS map sheet 106 D/07. The Kathy grid is 6km S of camp and occupies NTS map sheet 106 D/01. Access to both grids was by helicopter.

Both properties had cut lines with an overlaid virtual grid. Most of the surveying was done on cut lines, but on the Kathy grid, roughly half the survey was conducted via the virtual grid on uncut lines. UTM coordinates and NAD83 zone 8N were used during data

acquisition.

**d. Survey Specifications:** The Mag VLF survey was completed according to the following specifications

Station Separation	12.5 m
Line Spacing	100 m
Positioning Data	Collected with the handheld NDGPS receiver sampling at one reading per 3 seconds
Corrections	Temporal geomagnetic variations were removed by linear interpolation of drift determined by the base station magnetometer. Reference field set to 57,700nT
Base Station Magnetometer	The unit was cycled at a 3 second interval throughout the survey. Both base and roving magnetometers' clocks were synchronized daily to local time.
VLF Frequency	21.4 Khz (NPM) Lualualei, Hawaii

**e. Data :** The Mag VLF data were downloaded at the end of each survey day and the raw, unedited data archived. A copy of the data was then corrected for diurnal variations using GEM Systems software GEMlink5. Geosoft's cross database channel lookup was used to append the positioning data collected during the survey. The data were leveled each day to a common datum and poor quality readings removed. Profiles of the corrected magnetic and VLF data were reviewed on a line by line basis to check for data integrity. Plan images of the total magnetic field were produced using Geosoft's Bigrid gridding algorithm. VLF Profiles were low pass filtered using a wavelength of 10 and fraser filtered. Plan contour maps of the fraser filtered data were generated using Geosoft's Bigrid gridding algorithm.

The following digital data products are appended to this report.

Instrument dump files      Raw GEM magnetometer daily dump files :  
name convention <RM, date, operator initials or base >.txt

Raw GPS positioning data files :  
name convention <operator initials, date >.gpx

All dump files have been left unedited.

Final ASCII XYZ and Geosoft format GDB files      OcelotMAGVLF.xyz  
OcelotMAGVLF.gdb  
KathyMAGVLF.xyz  
KathyMAGVLF.gdb

Channel	Description
Line	Grid line
Station	Grid Station
UTME_Z8N_NAD83	UTM easting as NAD83 z8N in metres
UTMN_Z8N_NAD83	UTM northing as NAD83 z8N in metres
Time	Time as HH:MM:SS.s
RawMag	Uncorrected, raw magnetic reading as nT
Q	Signal Quality Indicator
CorMag	Diurnal corrected magnetic reading as nT
Level_Mag	Leveled magnetic reading as nT
VLF_Freq_NLK	VLF Frequency in KHz
NLK_VLF_Signal	VLF Signal Strength in pT
NLK_H1	Horizontal field vector 1
NLK_H2	Horizontal field vector 2
NLK_IP	Uncorrected, raw In Phase readings in %
NLK_OP	Uncorrected, raw Out of Phase readings in %
NLK_IP_Final	Final In Phase data in %
NLK_OP_Final	Final Out of Phase data in %
NLK_IP_low_Pass_Final	Low pass filtered In Phase data in %
NLK_OP_low_Pass_Final	Low pass filtered Out of Phase data in %
NLK_IP_FF_Final	Fraser Filtered In Phase data in %
NLK_OP_FF_Final	Fraser Filtered Out of Phase data in %

Digital Maps

Ocelot VLF\_Profiles\_Final.pdf  
Ocelot MAGVLF\_Final.pdf  
Ocelot FF\_VLF\_OP\_Final.pdf  
Ocelot FF\_VLF\_IP\_Final.pdf

Kathy VLF\_Profiles\_Final.pdf  
Kathy MAGVLF\_Final.pdf  
Kathy FF\_VLF\_OP\_Final.pdf  
Kathy FF\_VLF\_IP\_Final.pdf

Survey Log

ATC-12523-YT Crew Log & Production.pdf

Respectfully submitted,  
**AURORA GEOSCIENCES LTD.**

Mac Clohan,  
Aurora Geosciences Ltd.



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---

## MEMORANDUM

**To:** Rob Carne  
ATAC Resources Ltd. **Date:** June 12, 2012

**From:** Genevieve Hetu  
[Genevieve.Hetu@auroraesciences.com](mailto:Genevieve.Hetu@auroraesciences.com)

**Re:** Field report – Ocelot & Kathy Gravity Survey - 2012

---

This memorandum is a short form geophysical report describing a gravity survey conducted for ATAC Resources Ltd. over the Ocelot and Kathy grids within the Mayo Mining District, Yukon. The Ocelot grid comprised 417 gravity points which extended a 2011 gravity survey. The Kathy grid included 594 gravity points.

The work was performed during the period of May 7<sup>th</sup> to June 6<sup>th</sup>, 2012. All work was conducted out of the RAU camp and the work areas were accessed daily by helicopter.

A complete log of the work performed is appended to this report.

### **Survey Location.**

The Ocelot and Kathy grids are located on mining claims owned by ATAC Resources Ltd. in Yukon Territory, approximately 400 kilometres north of Whitehorse. The work described in this memo is centred at 64° 11' N / 134° 26' W. The project area covers NTS 1:50,000 map sheets 106D/02 and 106D/08.

The grid was all on cut lines except for lines 0, 100, 200, 1100 and 1200 on the Kathy grid.

**Crew and Equipment.** The surveys were conducted by the following personnel:



Andre Lebel	Crew Chief – (Grav operator)	May 7 – May 16 May 29 – June 5
Genevieve Hetu	Crew Chief – (Grav operator)	May 16 – May 29
Mike Murdock	Field Assistant	May 7 – May 16
Jeremy Beales	Field Assistant	May 16 – June 5

The crew was equipped with the following instruments:

- Gravity                      1 - Scintrex CG-5 Gravimeter S/N:961049349
- GPS                            1 set - Leica GS-15 RTK Differential GPS Receivers and Transmitters S/N: 1508673 and 1502747
- Other                         1 - Laptop with Geosoft, Gravred2, Scintrex Software  
                                   1 - Repair tools  
                                   2 - Icom two way radios  
                                   2 - Garmin handheld GPS

**Gravity Survey.** Each Gravity station's coordinates were determined from position measurements taken with Post Processed / RTK Differential GPS system and recorded in NAD83 and then transformed into UTM Zone 8N coordinates using the NAD83 datum. The station spacing was 25 m and the line separation was 100 m.

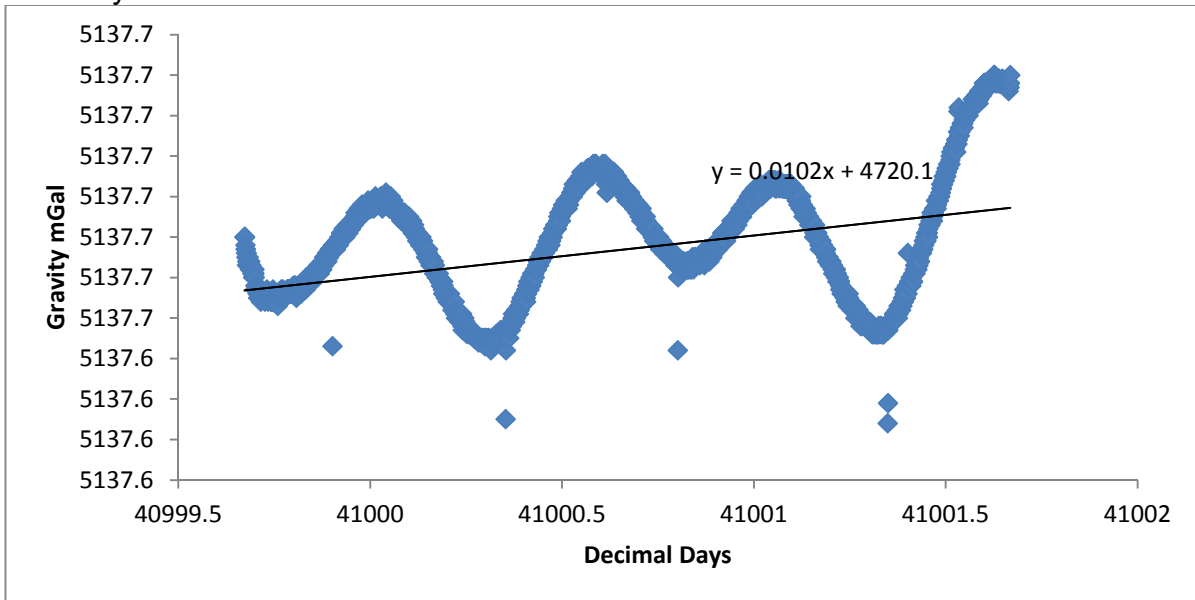
- Geographic datum & projection:      UTME, UTMN NAD83 datum, 8N.
- Elevation datum:            Mean sea level using Geoid EMG96.
- Station locations:            Stations were located with non-differential GPS receivers.
- Station marking:             Stations were marked with flagged nails driven flush to ground level where possible.
- Gravimeter preparation:    The gravimeter was levelled on a cement block and warmed up for a period of 48 hours to stabilize. After the spring stabilized, the instrument was cycled for 72 hours taking readings for 60 seconds every minute to determine the remnant instrument drift and to reset instrument drift constants. The instrument remained under power at all times throughout the survey operation.
- Gravity readings:            Readings were stacked for 60 s and maximum standard deviation in reading error was kept to less than 50 microGal if possible. When this was not possible, readings were repeated several times to ensure that the data is repeatable. Seismic filters were engaged to remove wind noise.

Gravity Base Station: Ocelot location at 517086E 7127309N NAD83 Z8N and Kathy location at 532896E 7117704N NAD83 Z8N, marked with butter tags and flagging.

Gravimeter drift for CG-5 S/N 961049349:

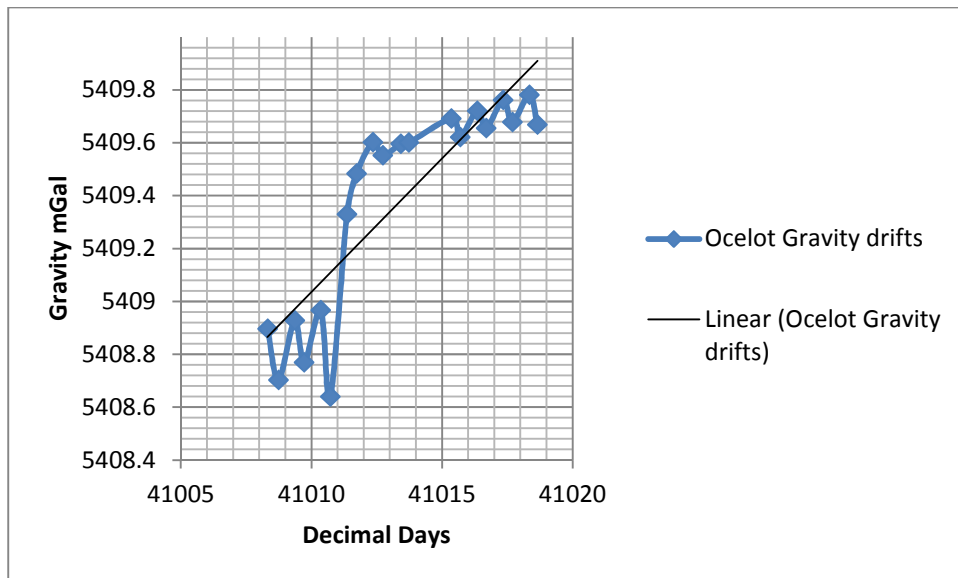
The gravimeter was checked daily for instrument drift prior to surveying by occupying a drift station on both work areas. During the survey, a minimum initial and final tie-in drift measurement were made prior to and after each day's survey.

Pre-survey:

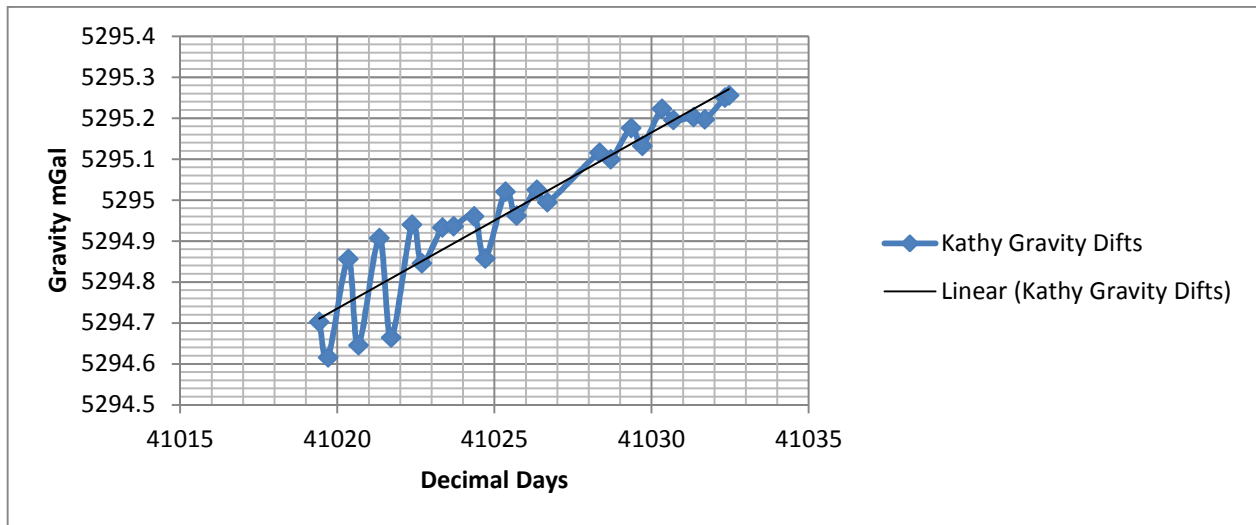


Graph 1. Shows the linear trend of the springdrift throughout the 72 hours from May 1-May 3, 2012, pre-survey. X-axis: time in decimal hours. Y-axis: mGal.

During Survey (Tie File):



Graph 2. Shows the spring drift from May 9 to May 20, 2012 while surveying on the Ocelot grid.



Graph 3. Shows the spring drift from may 21 to June 4, 2012 while surveying on the Kathy grid.

DGPS survey base station: The GPS base station was installed to transmit RTK position corrections and record positioning at 1 second epoch intervals.

The GPS base was installed at UTME, UTMN NAD 83 Z8N:  
 Ocelot - 517086.3E, 7127308.6N with base height of 1.17  
 Kathy - 532896.9E, 7117704.1N with base height of 1.22  
 Both bases were set over a floating position and marked with butter tags and flagging.

DGPS survey rover: Antenna was placed on the gravity survey station hub and elevations corrected for rover antenna height of 1.8m. RTK was achieved for about 96% of the surveyed data points. Because of occasional poor satellites configuration that impacts the RTK reliability, 4% of all elevations are accurate to the decimeter. These stations are flagged in the final database.

Bouguer Correction Free Air, Bullard B, Bouguer: density: 2.67, Datum: 0.0 (sea level)

Latitude Correction Ocelot grid: UTM Declination -0.7, Center Latitude 64.25, Center UTM 579500E, 7128000N NAD83 Z8N  
 Kathy grid: UTM Declination -0.7, Center Latitude 64.20, Center UTM 532770E, 7117670N NAD83 Z8N

Near station terrain measurement:	Terrain elevations within 20m of the gravity station were directly measured applied to the data as near-station terrain corrections. The offset for the operator height was accounted for 1.5 m.
Inner DTM	Terrain corrections from 20 m to approximately 10 km were calculated. A DEM equivalent to a 1:50 000 NTS topographic map was used modified to be consistent with the GPS data collected over the course of this survey.
Outer DTM	Terrain corrections from 10km to approximately 100 km were calculated. A DEM equivalent to a 1:250 000 NTS topographic map was used modified to be consistent with the GPS data collected over the course of this survey.
Tide Correction	Centre of Grid: 64.2 Lat, 134.3 Long was used for on-board Gravimeter tide corrections.

**Data Processing.** The gravity data was downloaded and processed daily in the field using propriety software package 'Gravred2'. All of the field maps and databases were created in Geosoft Oasis Montaj. Gravity data repeats were averaged. The Ocelot 2011 gravity data were leveled with the Ocelot 2012 gravity data. Long wavelength features were isolated by applying a trend removal to each grid.

**a. Data Formats.** The unedited ASCII instrument dump files are named for the date (survey type/day/month /operator's initials) on which they were produced. The RTK GPS dump files include the hyper, rover and base folders. The Near Terrain Corrections (NTC) are in an excel spreadsheet. The final processed data are in Geosoft data base (.gdb) format and in ASCII (.xyz) format.

The following digital data products are appended to this report.

Digital Data	Geosoft database Geosoft .xyz file	ATC GR11-12 OCELOT.gdb ATC GR12 KATHY.gdb ATC GR12 OCELOT.gdb ATC GR11-12 OCELOT.xyz ATC GR12 KATHY.xyz ATC GR12 OCELOT.xyz
Raw	ASCII unedited data	
Processing Files:	Explains channels of database files	Channel.txt
Figures:	Gravity colour map .pdf Geosoft gravity colour packed map. map	ATC GR12 OCELOT 267.pdf ATC GR12 OCELOT TREND REMOVED.pdf ATC GR11-12 OCELOT 267.pdf ATC GR11-12 OCELOT TREND REMOVED.pdf ATC GR12 KATHY 267.pdf ATC GR12 KATHY TREND REMOVED.pdf ATC GR12 OCELOT 267.map

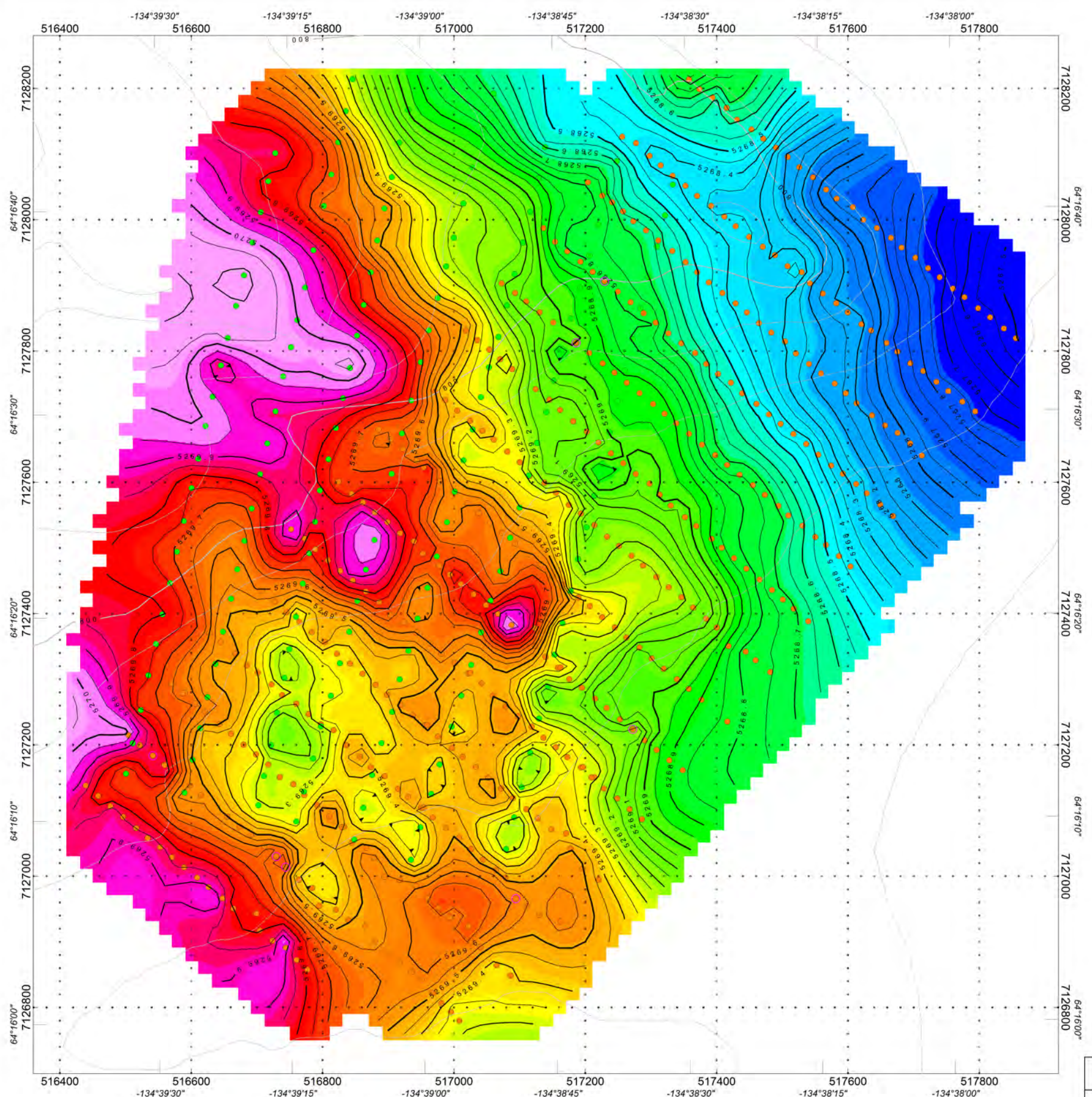
		ATC GR12 OCELOT TREND REMOVED.map ATC GR11-12 OCELOT 267.map ATC GR11-12 OCELOT TREND REMOVED.map ATC GR12 KATHY 267.map ATC GR12 KATHY TREND REMOVED.map
Reports:	Survey and personnel summary for project .pdf	ATC GR12 DAILY REPORT .pdf
	This report in .pdf format	ATC-12523-YT Field Memo.pdf

Respectfully submitted,  
**AURORA GEOSCIENCES LTD.**

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Genevieve Hetu, Geophysical Technician  
 Aurora Geosciences Ltd.





### LEGEND

#### ELEVATION

CONTOUR INTERVALS (m)

20
100
1000

#### CONTOURED BOUGUER GRAVITY

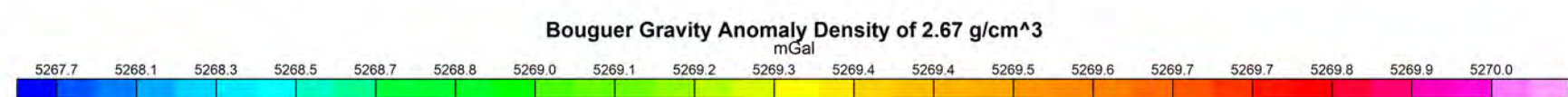
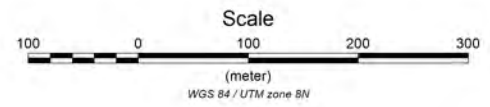
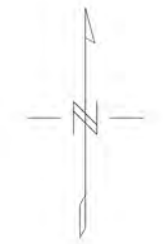
CONTOUR INTERVALS (mGal)

0.050
0.100
0.500

INSTRUMENT : Scintrex Autograv CG-5  
 GRIDDING ALGORITHM : Geosoft Rangrid  
 GRID CELL SIZE : 20 m  
 CORRECTED FOR : Drift, Terrain  
 Latitude and Elevation  
 POST PROCESSING FILTERS : None  
 DATA FILE : Ocelot\_grav.gdb  
 OPERATORS : AL & GH  
 TOTAL STATIONS SURVEYED : 580

- GRAVITY SURVEY 2011: ●
- GRAVITY SURVEY 2012:  
with RTK GPS Location: ●
- GRAVITY SURVEY 2012:  
with Diff Corrected  
GPS Location: ●

**FIELD**



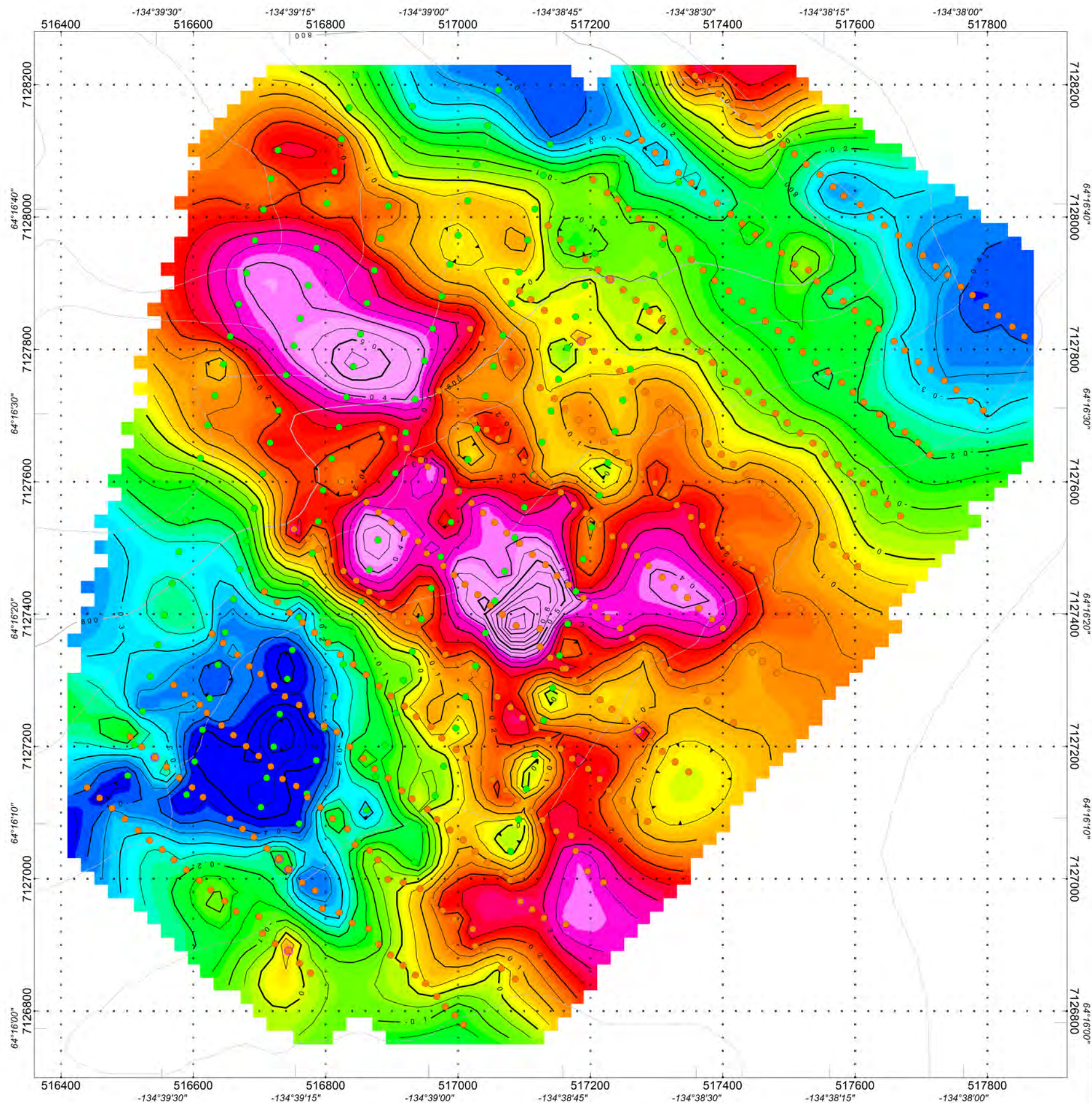
**ATAC MINERALS LTD.**

**RAU PROJECT**  
 GRAVITY SURVEY 2011-2012 OCELOT AREA  
 BOUGUER GRAVITY ANOMALY DENSITY 2.67 g/cm<sup>3</sup>

MAYO MINING DISTRICT, YT, CANADA / NTS : 106D/08  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : AL, GH  
 DATE DRAWN: JUNE 9, 2012 / DRAWN BY: GH

**AURORA GEOSCIENCES LTD.**





# LEGEND

## ELEVATION

CONTOUR INTERVALS (m)

20

100

1000

## CONTOURED BOUGUER GRAVITY

CONTOUR INTERVALS (mGal)

0.050

0.100

0.500

INSTRUMENT : Scintrex Autograv CG-5

GRIDDING ALGORITHM : Geosoft Rangrid

GRID CELL SIZE : 20 m

CORRECTED FOR : Drift, Terrain

Latitude and Elevation

POST PROCESSING FILTERS : First Order Trend Removed

DATA FILE : Ocelot\_grav.gdb

OPERATORS : AL & GH

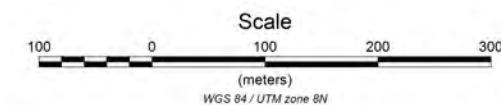
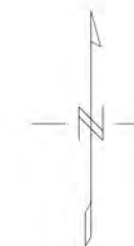
TOTAL STATIONS SURVEYED : 580

GRAVITY SURVEY 2011: ●

GRAVITY SURVEY 2012:  
with RTK GPS Location ●

GRAVITY SURVEY 2012:  
with Diff Corrected  
GPS Location ●

# FIELD



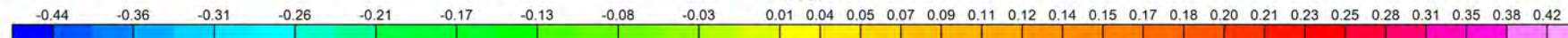
**ATAC MINERALS LTD.**

**RAU PROJECT  
GRAVITY SURVEY 2011-2012 OCELOT AREA  
BOUGUER GRAVITY ANOMALY TREND REMOVED**

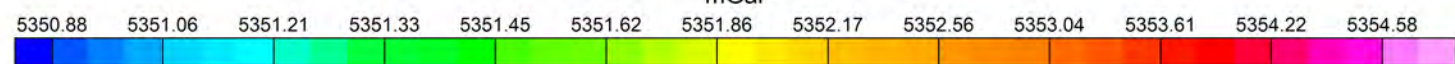
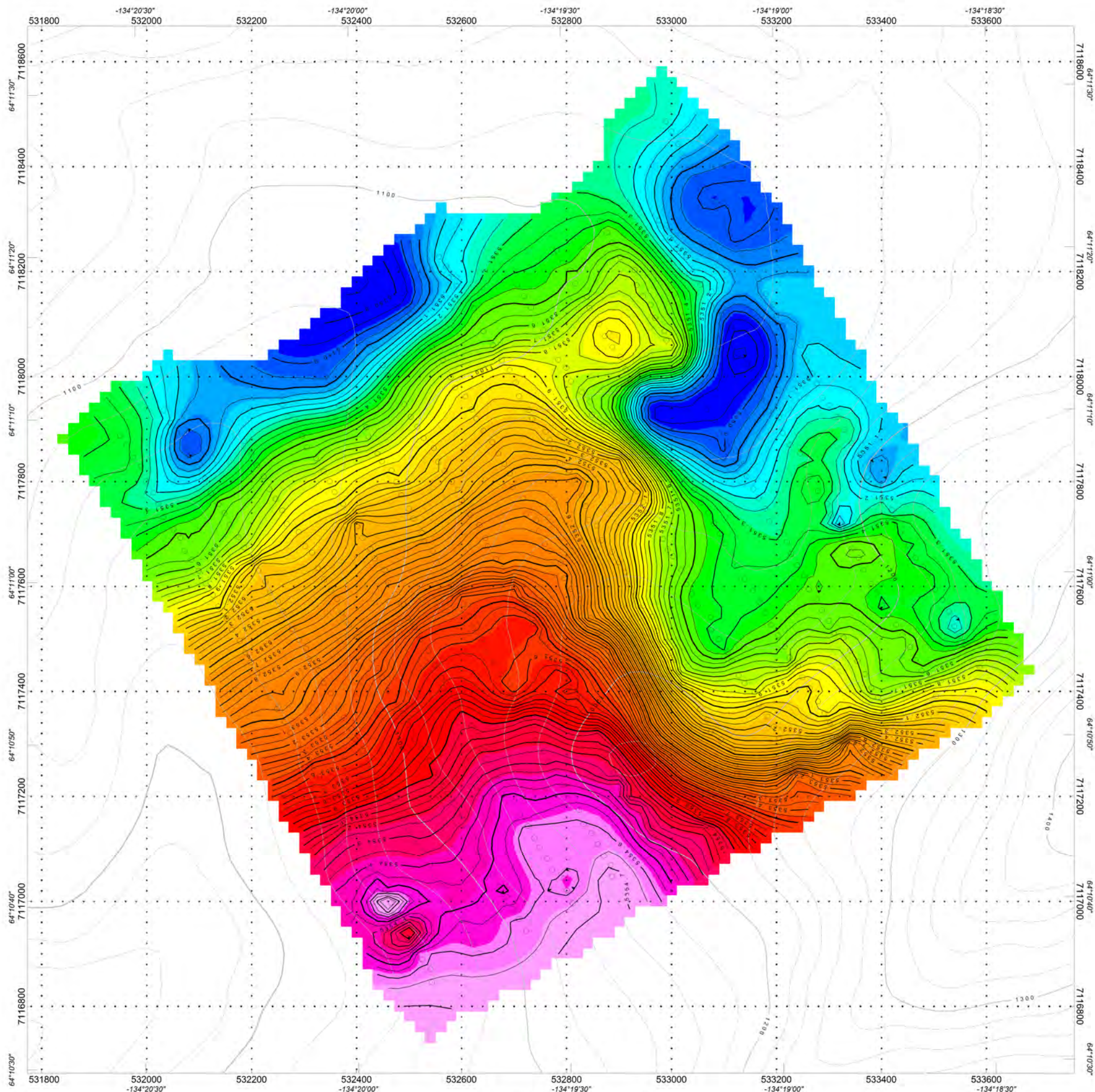
MAYO MINING DISTRICT, YT, CANADA / NTS : 106D/08  
DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
DATE SURVEYED : MAY, 2012 / SURVEYED BY : AL, GH  
DATE DRAWN: JUNE 14, 2012 / DRAWN BY: GH

**AURORA GEOSCIENCES LTD.**

Bouguer Gravity Anomaly Density of 2.67 g/cm<sup>3</sup> - Trend Removed  
mGal



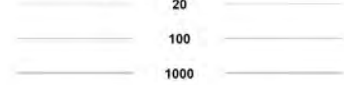




**LEGEND**

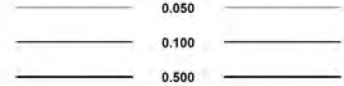
**ELEVATION**

CONTOUR INTERVALS (m)



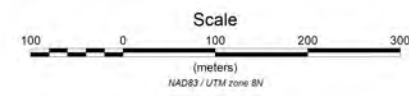
**CONTOURED BOUGUER GRAVITY**

CONTOUR INTERVALS (mGal)



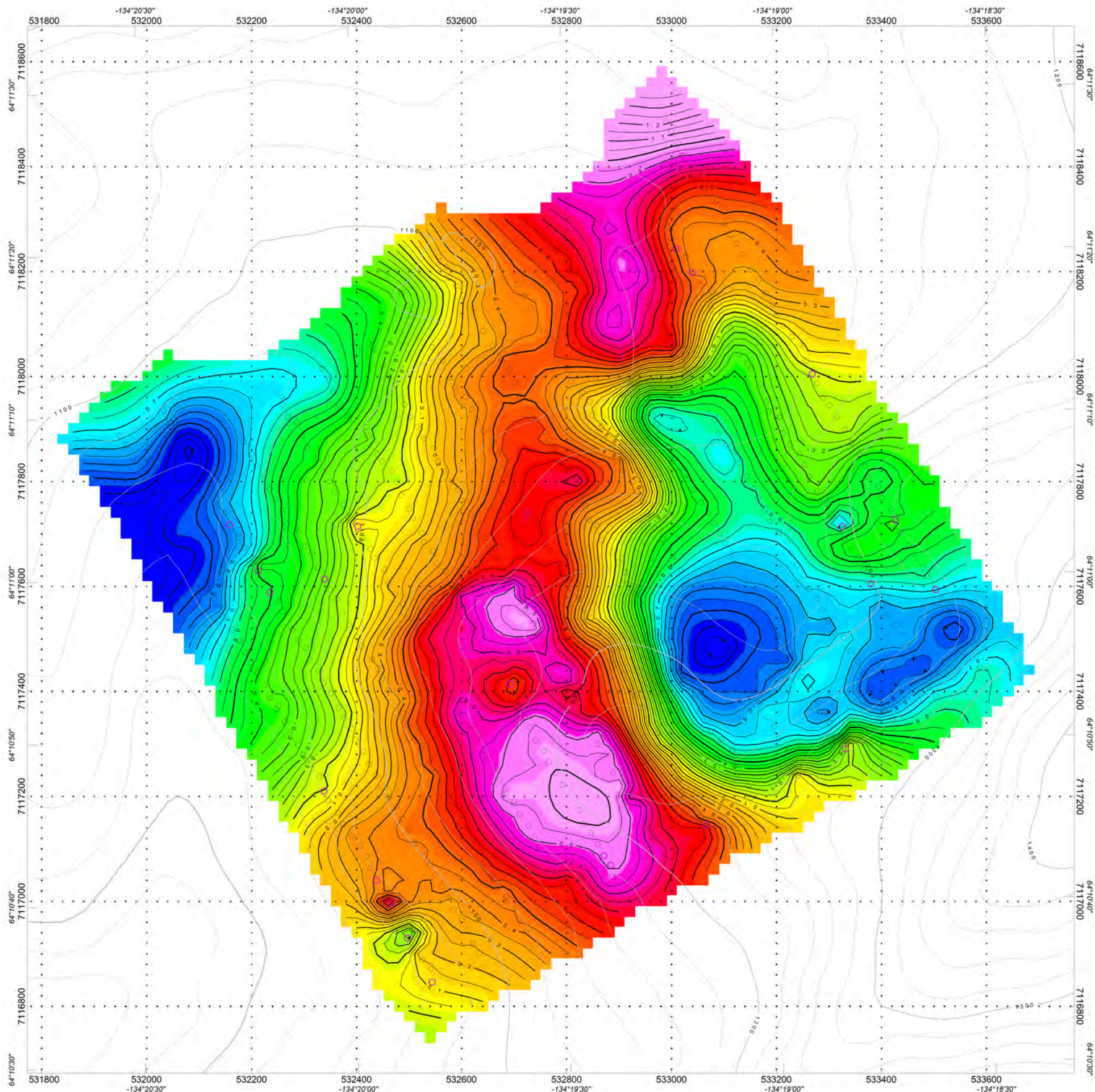
INSTRUMENT : Scintrex Autograv CG-5  
 GRIDDING ALGORITHM : Geosoft Rangrid  
 GRID CELL SIZE : 20 m  
 CORRECTED FOR : Drift, Terrain  
 Latitude and Elevation  
 POST PROCESSING FILTERS : None  
 DATA FILE : Ocelot\_grav.gdb  
 OPERATORS : AL & GH  
 TOTAL STATIONS SURVEYED : 594

**FIELD**

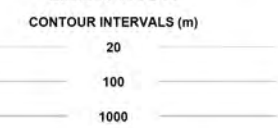


<b>ATAC MINERALS LTD.</b>
<b>RAU PROJECT</b> <b>KATHY AREA</b> <b>BOUGUER GRAVITY ANOMALY DENSITY 2.67 g/cm<sup>3</sup></b>
<small>MAYO MINING DISTRICT, YT, CANADA / NTS : 106D02          DATUM : NAD 83 / PROJECTION : UTM ZONE 8N          DATE SURVEYED : MAY, 2012 / SURVEYED BY : AL, GH          DATE DRAWN: JUNE 14, 2012 / DRAWN BY: GH</small>
<b>AURORA GEOSCIENCES LTD.</b>

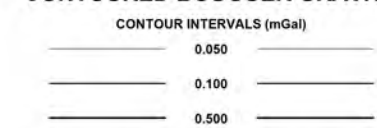




**LEGEND**  
**ELEVATION**



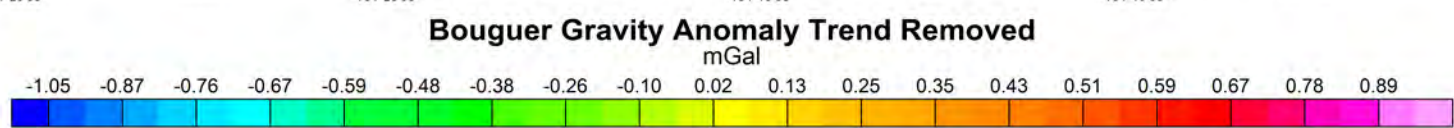
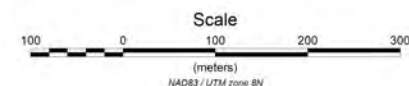
**CONTOURED BOUGUER GRAVITY**



INSTRUMENT : Scintrex Autograv CG-5  
 GRIDDING ALGORITHM : Geosoft Rangrid  
 GRID CELL SIZE : 20 m  
 CORRECTED FOR : Trend, Drift, Terrain  
 Latitude and Elevation  
 POST PROCESSING FILTERS : First Order Trend Removed  
 DATA FILE : Ocelot\_grav.gdb  
 OPERATORS : AL & GH  
 TOTAL STATIONS SURVEYED : 594

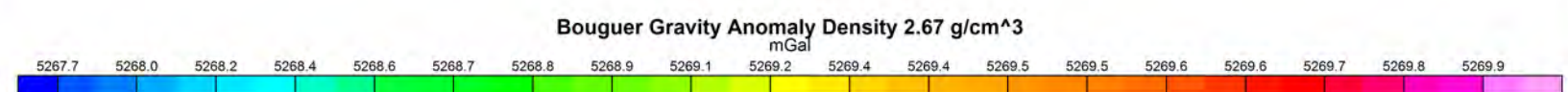
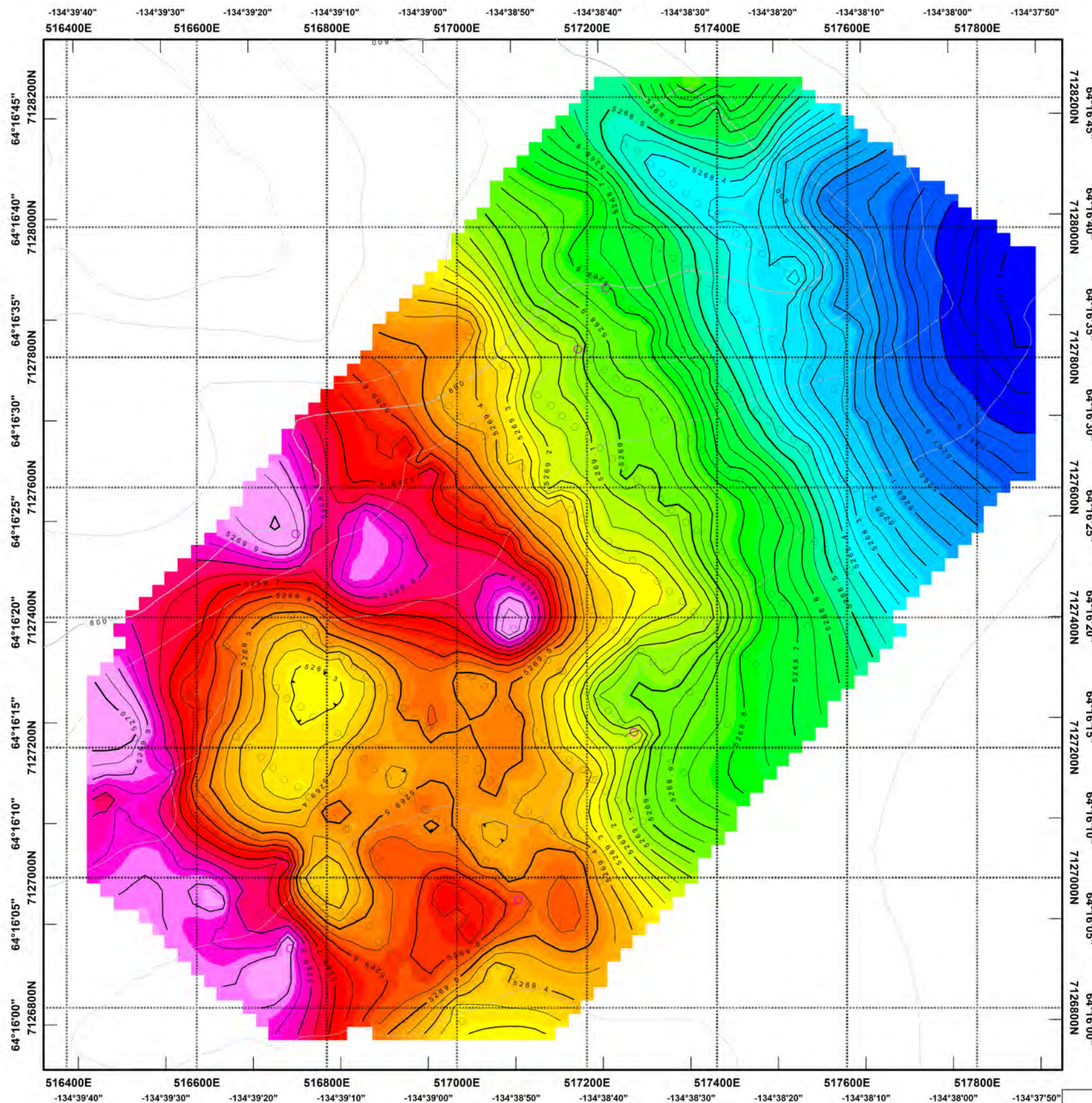
- Gravity Station with RTK GPS Location
- Gravity Station with Diff Corrected GPS Location

**FIELD**

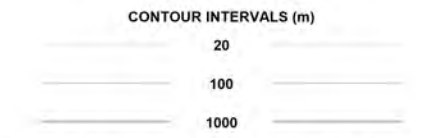


<b>ATAC MINERALS LTD.</b>
<b>RAU PROJECT</b> <b>KATHY AREA</b> <b>BOUGUER GRAVITY ANOMALY TREND REMOVED</b>
<small>MAYO MINING DISTRICT, YT, CANADA / NTS : 106D/02          DATUM : NAD 83 / PROJECTION : UTM ZONE 8N          DATE SURVEYED : MAY, 2012 / SURVEYED BY : AL, GH          DATE DRAWN: JUNE 14, 2012 / DRAWN BY: GH</small>
<b>AURORA GEOSCIENCES LTD.</b>

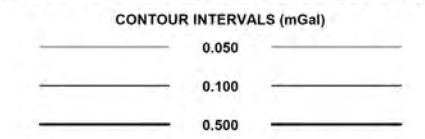




**LEGEND**  
**ELEVATION**



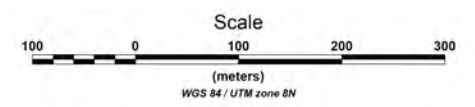
**CONTOURED BOUGUER GRAVITY**



INSTRUMENT : Scintrex Autograv CG-5  
 GRIDDING ALGORITHM : Geosoft Rangrid  
 GRID CELL SIZE : 20 m  
 CORRECTED FOR : Drift, Terrain  
 Latitude and Elevation  
 POST PROCESSING FILTERS : None  
 DATA FILE : Ocelot\_grav.gdb  
 OPERATORS : AL & GH  
 TOTAL STATIONS SURVEYED : 417

- Gravity Station with RTK GPS Location
- ◉ Gravity Station with Diff Corrected GPS Location

**FIELD**



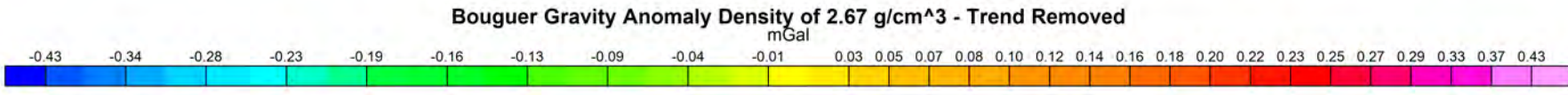
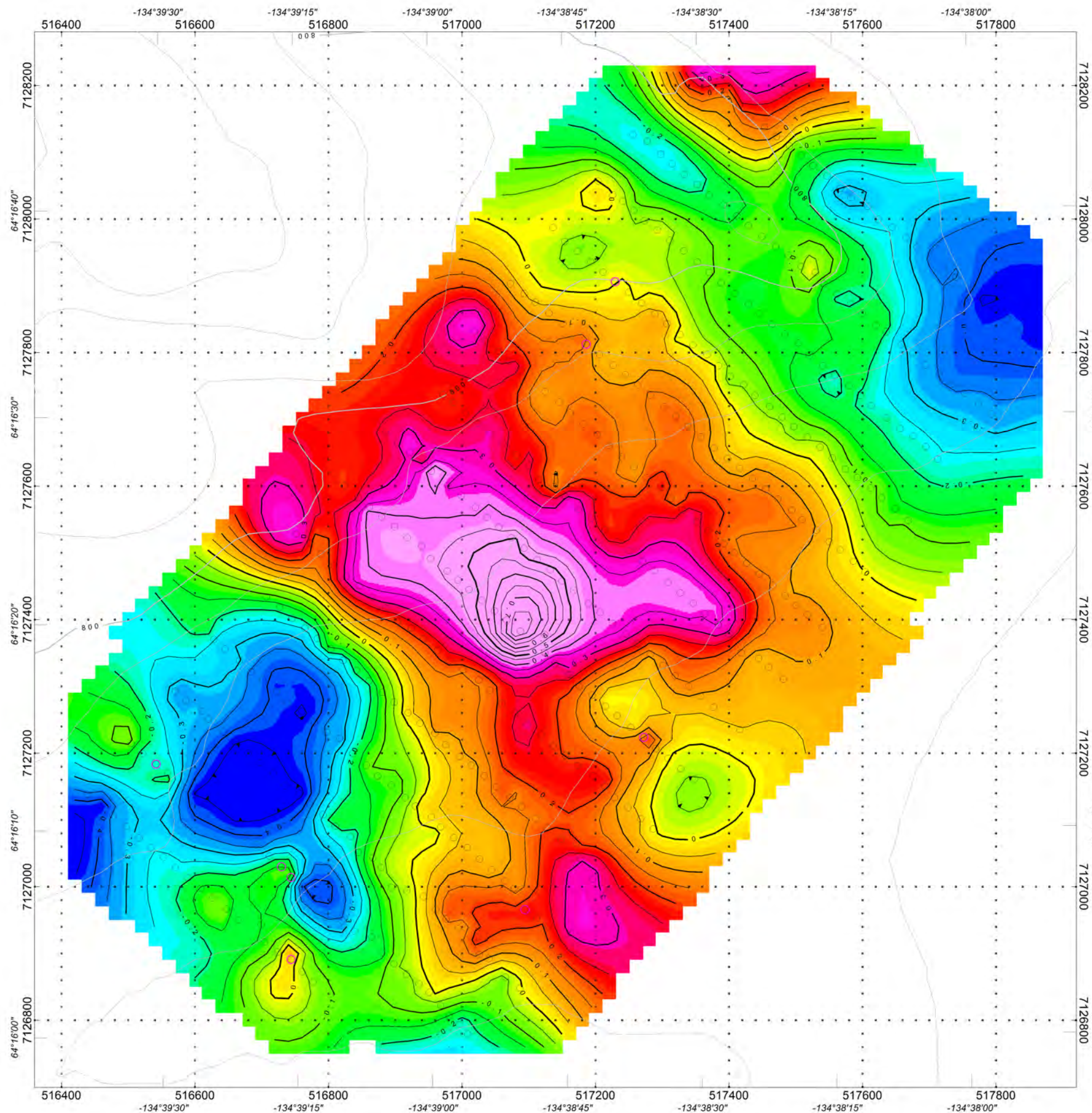
**ATAC MINERALS LTD.**

**RAU PROJECT**  
**OCELOT AREA**  
**BOUGUER GRAVITY ANOMALY DENSITY 2.67 g/cm<sup>3</sup>**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106D/08  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : AL, GH  
 DATE DRAWN: JUNE 5, 2012 / DRAWN BY: AL

**AURORA GEOSCIENCES LTD.**





# LEGEND

## ELEVATION

CONTOUR INTERVALS (m)

20

100

1000

## CONTOURED BOUGUER GRAVITY

CONTOUR INTERVALS (mGal)

0.050

0.100

0.500

INSTRUMENT : Scintrex Autograv CG-5

GRIDDING ALGORITHM : Geosoft Rangrid

GRID CELL SIZE : 20 m

CORRECTED FOR : Trend, Drift, Terrain

Latitude and Elevation

POST PROCESSING FILTERS : First Order Trend Removed

DATA FILE : Ocelot\_grav.gdb

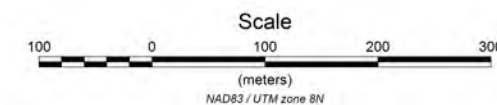
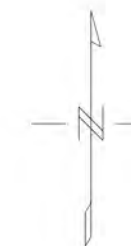
OPERATORS : AL & GH

TOTAL STATIONS SURVEYED : 417

○ Gravity Station with RTK GPS Location

○ Gravity Station with Diff Corrected GPS Location

# FIELD



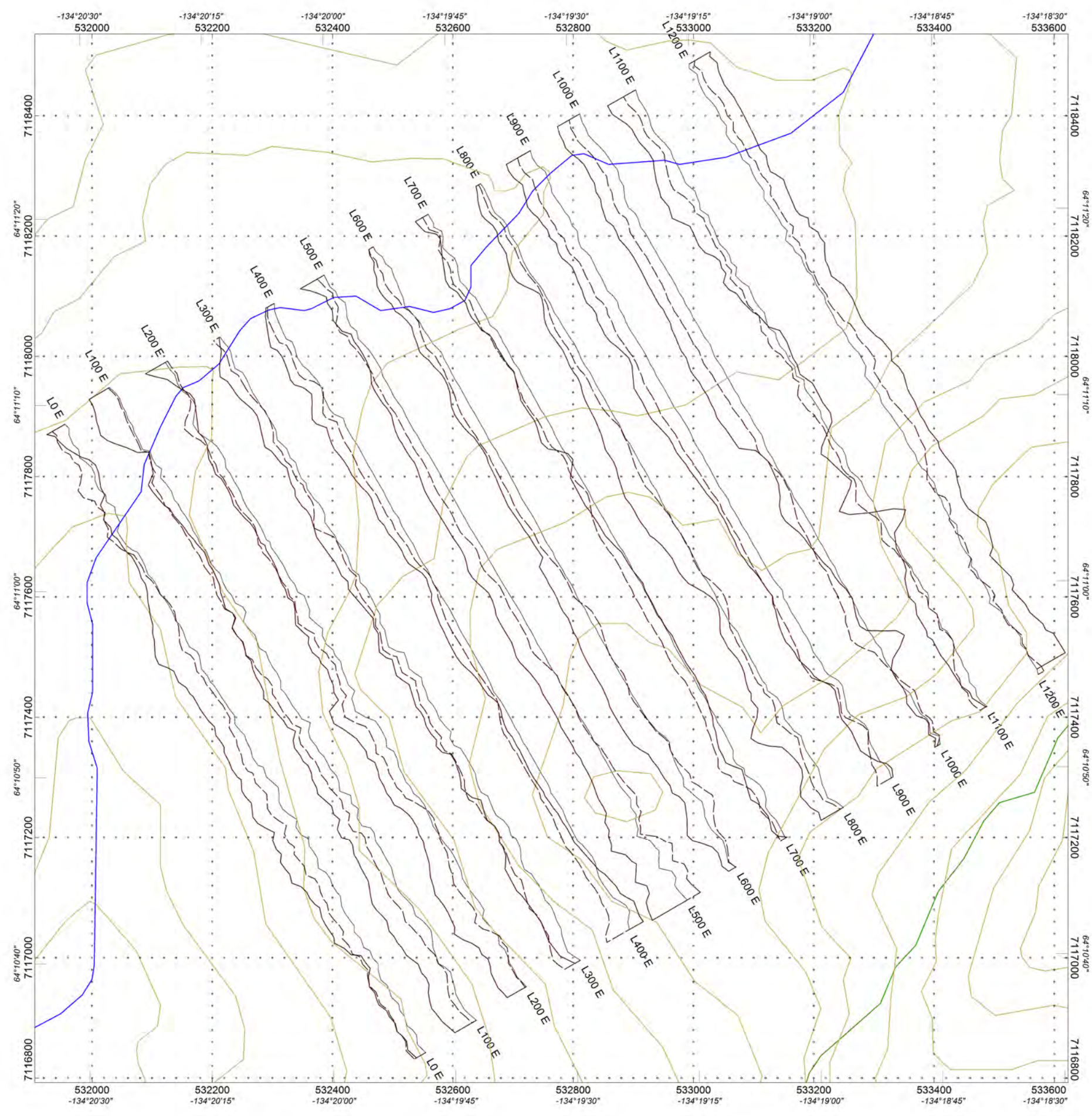
**ATAC MINERALS LTD.**

**RAU PROJECT**  
**GRAVITY SURVEY 2011-2012 OCELOT AREA**  
**BOUGUER GRAVITY ANOMALY - TREND REMOVED**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106D/08  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : AL, GH  
 DATE DRAWN: JUNE 14, 2012 / DRAWN BY: GH

**AURORA GEOSCIENCES LTD.**







### LEGEND

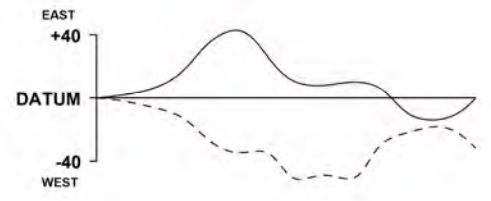
**ELEVATION**  
 CONTOUR INTERVALS (m)  
 2  
 10  
 100

### LEGEND

**VLF PROFILES**

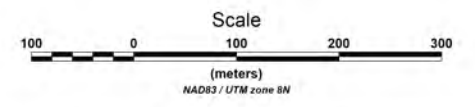
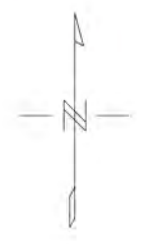
FREQUENCY : 21.4 kHz Lualauehi, Hawaii, USA  
 INSTRUMENT : GEM 19 MAG/VLF  
 PROFILE SCALE : 1 cm = 40%

IN PHASE :   
 QUADRATURE : 



IN-PHASE DATUM : 0%  
 DATA FILE : KathMagVLF.gdb  
 OPERATORS : MC  
 STATION SEPARATION : 12.5 m  
 LINE-KM SURVEYED THIS SHEET : 15.6 km

# FIELD



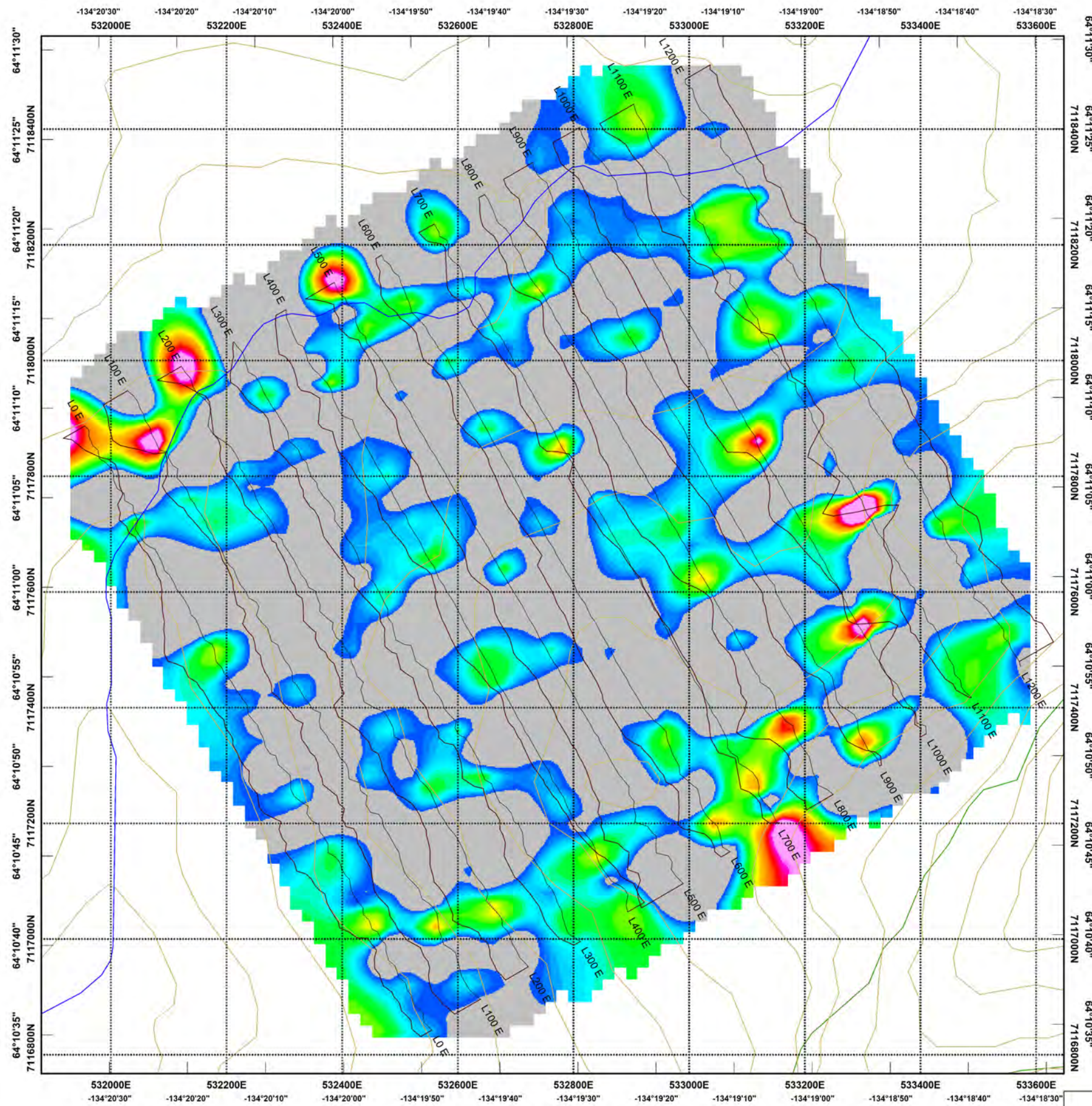
**ATAC MINERALS LTD.**

**RAU PROJECT  
 KATHY GRID  
 VLF Profiles**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/01  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
 DATE DRAWN : MAY, 2012 / DRAWN BY : MC

**AURORA GEOSCIENCES LTD.**





**LEGEND**

**ELEVATION**

CONTOUR INTERVALS (m)

2

10

100

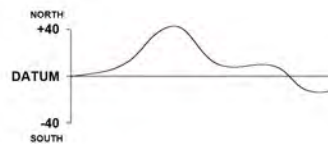
**LEGEND**  
**FRASER FILTERED VLF**

FREQUENCY : 21.4 kHz Lauille , Hawaii, USA

INSTRUMENT : GEM MAG/VLF

PROFILE SCALE : 1 cm = 40%

IN PHASE :



IN-PHASE DATUM : 0%

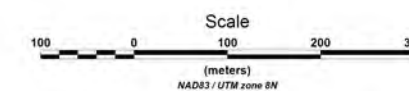
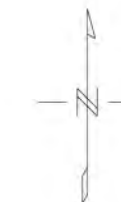
DATA FILE : KATHYMagVLF.gdb

OPERATORS : MC

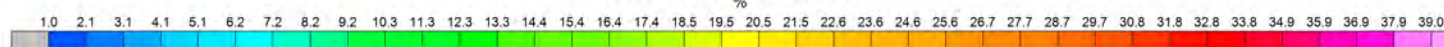
STATION SEPARATION : 12.5m

LINE-KM SURVEYED THIS SHEET : 15.6 km

**FIELD**



Fraser Filtered InPhase VLF



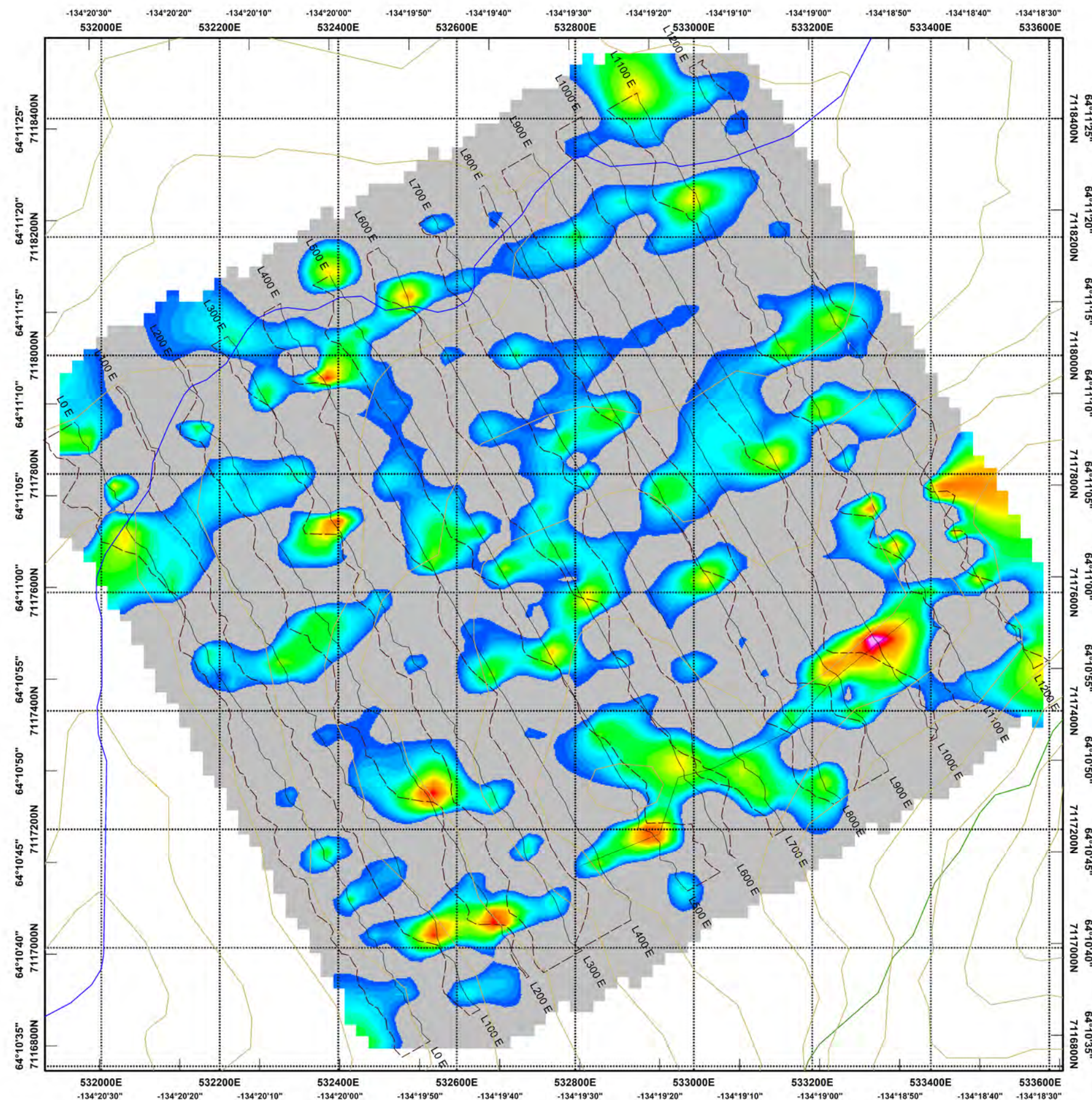
**ATAC MINERALS LTD.**

**RAU PROJECT**  
**KATHY GRID**  
**FRASER FILTERED VLF WITH INPHASE PROFILES**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/01  
DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
DATE DRAWN: MAY, 2012 / DRAWN BY: MC

**AURORA GEOSCIENCES LTD.**



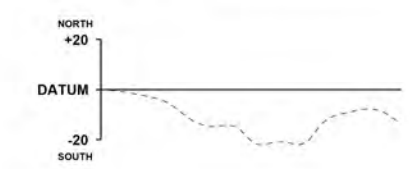


**LEGEND**  
**ELEVATION**

CONTOUR INTERVALS (m)  
2  
10  
100

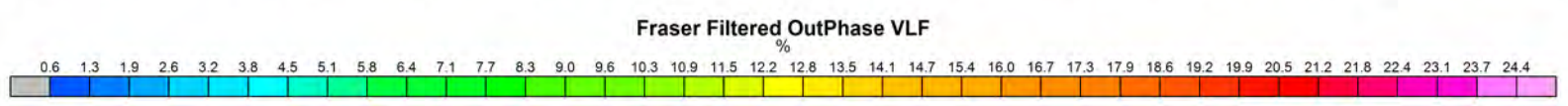
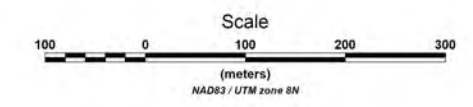
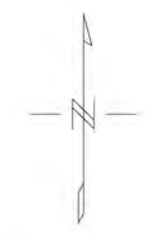
**LEGEND**  
**FRASER FILTERED VLF**

FREQUENCY : 21.4 kHz Lauiliie , Hawaii, USA  
INSTRUMENT : GEM MAG/VLF  
PROFILE SCALE : 1 cm = 20%  
QUADRATURE : - - - - -



IN-PHASE DATUM : 0%  
DATA FILE : KATHYMagVLF.gdb  
OPERATORS : MC  
STATION SEPARATION : 12.5m  
LINE-KM SURVEYED THIS SHEET : 15.6 km

**FIELD**

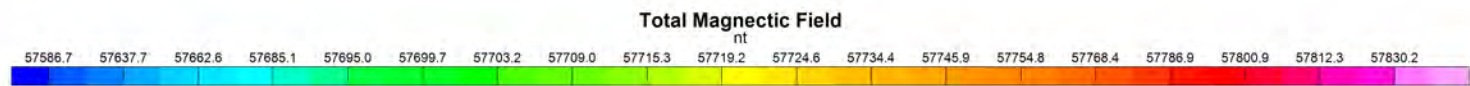
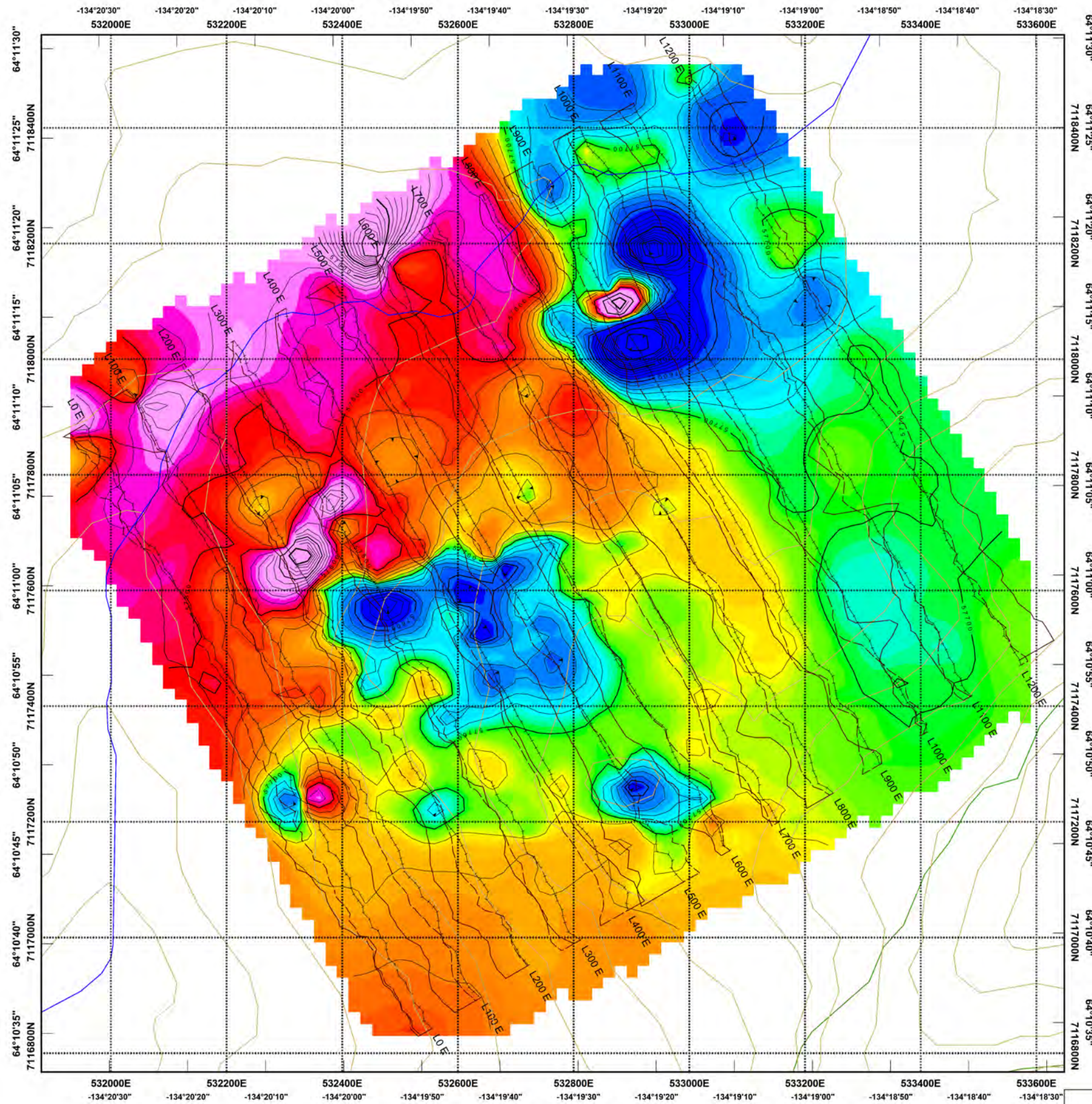


**ATAC MINERALS LTD.**  
**RAU PROJECT**  
**KATHY GRID**  
**FRASER FILTERED VLF WITH OUTPHASE PROFILES**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/01  
DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
DATE DRAWN : MAY, 2012 / DRAWN BY : MC

**AURORA GEOSCIENCES LTD.**

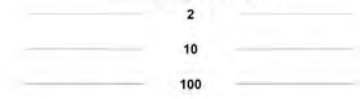




### LEGEND

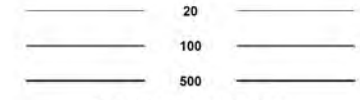
#### ELEVATION

CONTOUR INTERVALS (m)



#### TOTAL MAGNETIC FIELD

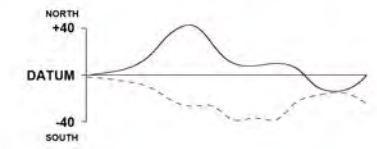
CONTOUR INTERVALS (nT)



REFERENCE FIELD : 57,700 nT  
 INSTRUMENT : GEM 19 MAGNETOMETER  
 GRIDDING ALGORITHM : GEOSOFT RANGRID  
 GRID CELL SIZE : 20 m  
 GRID HANNING FILTER : 0 PASSES  
 DATA FILE : KATHY MAG VLF.GDB  
 OPERATORS : MC  
 STATION SPACING : 12.5 M  
 LINE-KM SURVEYED THIS SHEET : 15.6 km

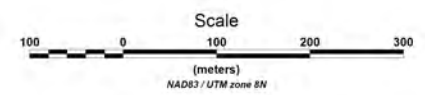
#### LEGEND FRASER FILTERED VLF

FREQUENCY : 21.4 kHz Lauille, Hawaii, USA  
 INSTRUMENT : GEM MAG/VLF  
 PROFILE SCALE : 1 cm = 40%  
 IN PHASE : ————  
 QUADRATURE : - - - - -



IN-PHASE DATUM : 0%  
 DATA FILE : KATHYMagVLF.gdb  
 OPERATORS : MC  
 STATION SEPARATION : 12.5m  
 LINE-KM SURVEYED THIS SHEET : 15.6 km

### FIELD



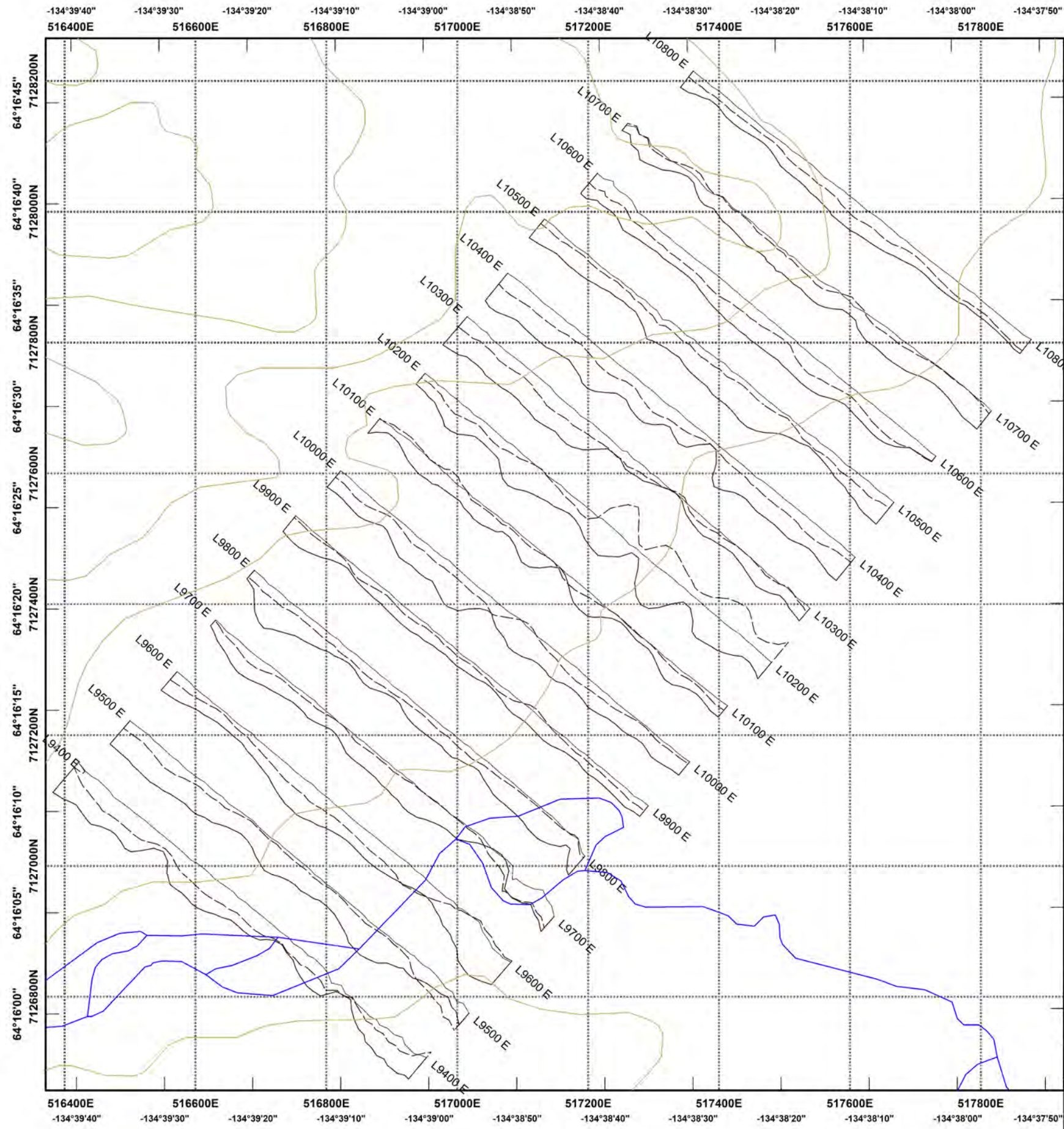
### ATAC MINERALS LTD.

RAU PROJECT  
 KATHY GRID  
 TOTAL MAGNETIC FIELD AND VLF PROFILES

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/01  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
 DATE DRAWN : MAY, 2012 / DRAWN BY : MC

### AURORA GEOSCIENCES LTD.





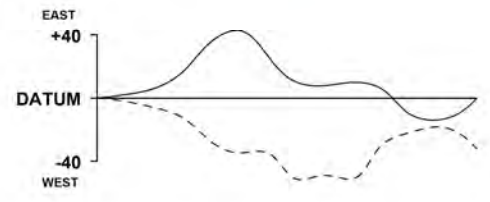
**LEGEND**

**ELEVATION**  
 CONTOUR INTERVALS (m)  
 2  
 10  
 100

**LEGEND**  
**VLF PROFILES**

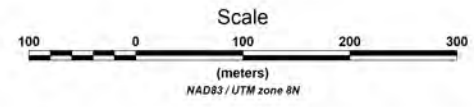
FREQUENCY : 21.4 kHz Luualuahei, Hawaii, USA  
 INSTRUMENT : GEM 19 MAG/VLF  
 PROFILE SCALE : 1 cm = 40%

IN PHASE :   
 QUADRATURE :



IN-PHASE DATUM : 0%  
 DATA FILE : OcelotMagVLF.gdb  
 OPERATORS : MC  
 STATION SEPARATION : 12.5 m  
 LINE-KM SURVEYED THIS SHEET : 10.5 km

**FIELD**



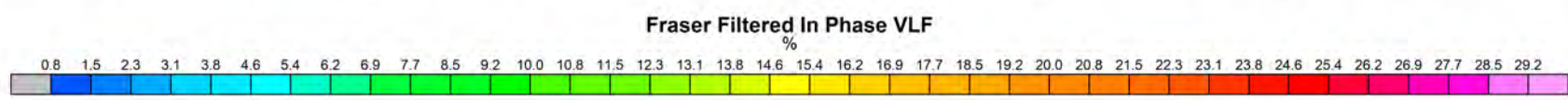
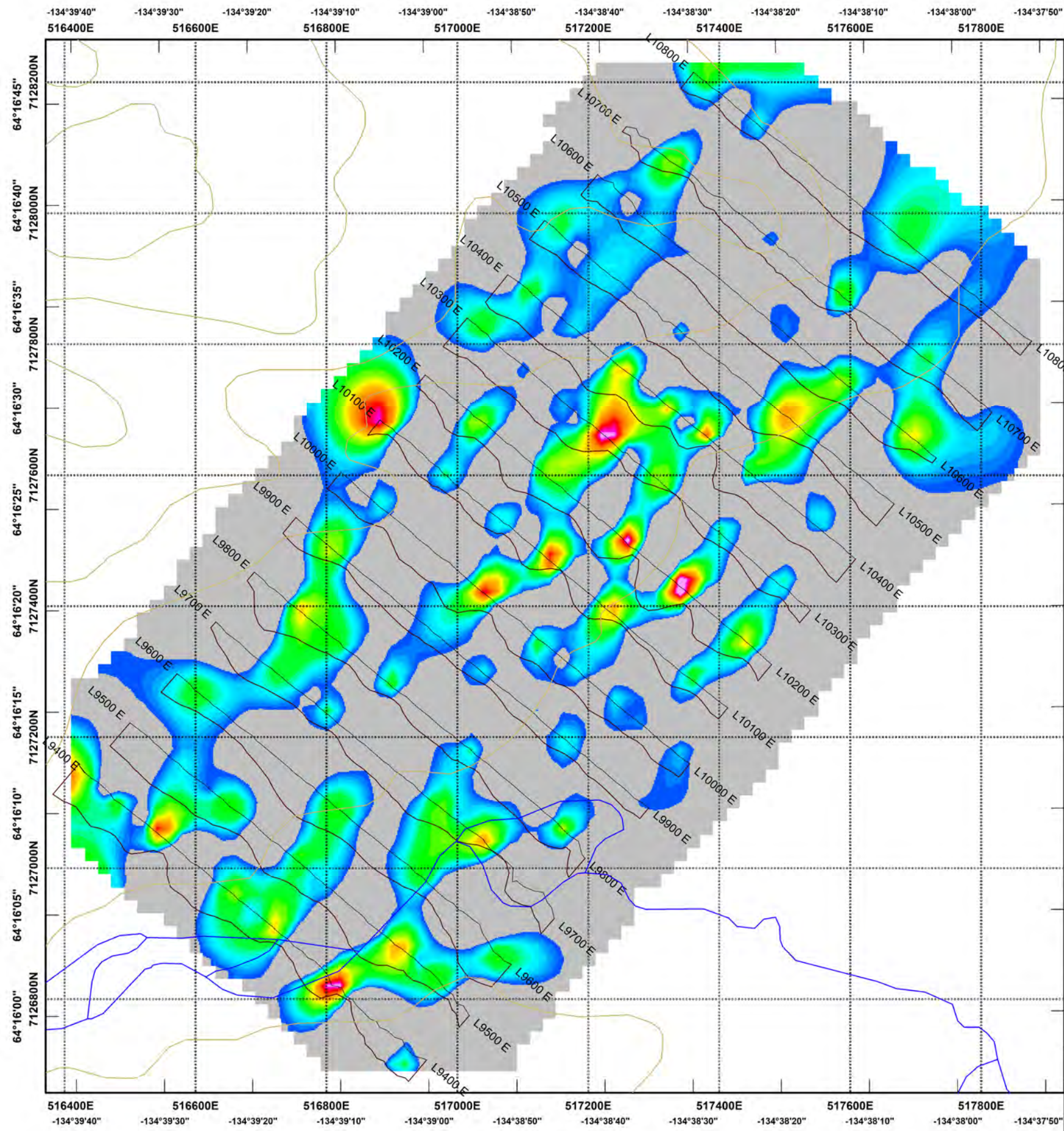
**ATAC MINERALS LTD.**

**RAU PROJECT**  
**OCELOT GRID**  
**VLF PROFILES**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/07  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
 DATE DRAWN : MAY, 2012 / DRAWN BY : MC

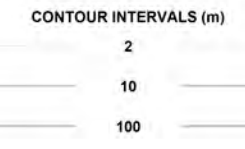
**AURORA GEOSCIENCES LTD.**





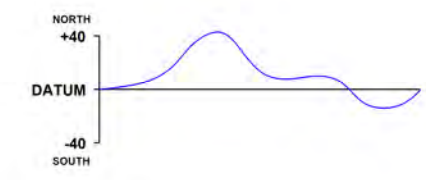
### LEGEND

#### ELEVATION



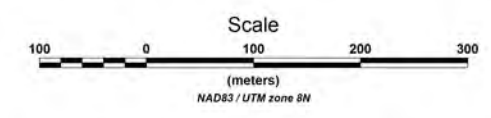
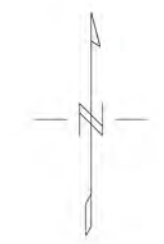
#### LEGEND FRASER FILTERED VLF

FREQUENCY : 21.4 kHz Lauiliie , Hawaii, USA  
 INSTRUMENT : GEM MAG/VLF  
 PROFILE SCALE : 1 cm = 40%



IN-PHASE DATUM : 0%  
 DATA FILE : OcelotMagVLF.gdb  
 OPERATORS : MC  
 STATION SEPARATION : 12.5m  
 LINE-KM SURVEYED THIS SHEET : 10.5 km

# FIELD



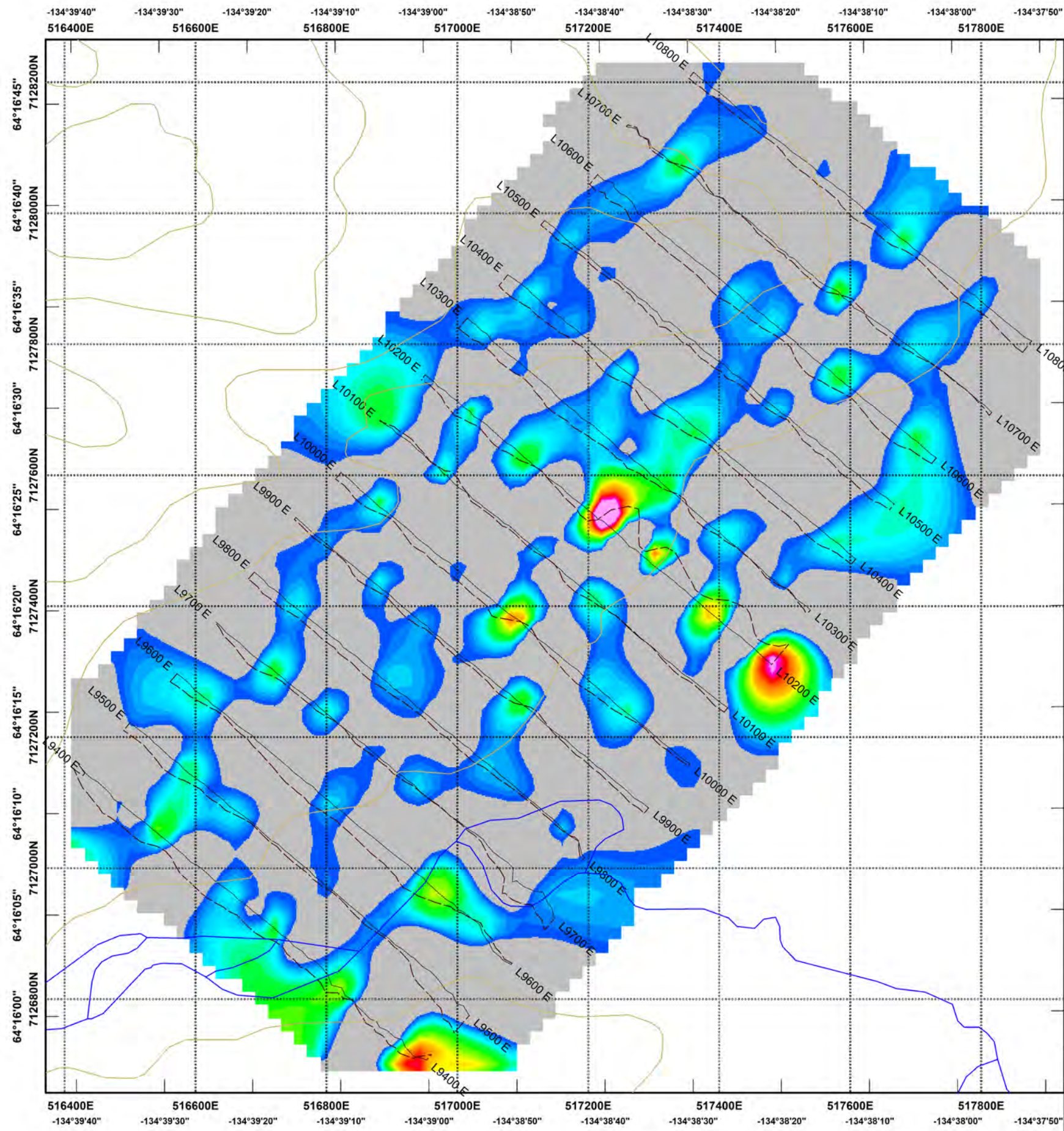
**ATAC MINERALS LTD.**

**RAU PROJECT  
 OCELOT GRID  
 FRASER FILTERED VLF WITH INPHASE PROFILES**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/07  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
 DATE DRAWN : MAY, 2012 / DRAWN BY : MC

**AURORA GEOSCIENCES LTD.**





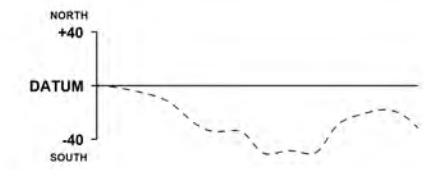
### LEGEND

**ELEVATION**  
 CONTOUR INTERVALS (m)  
 2  
 10  
 100

### LEGEND

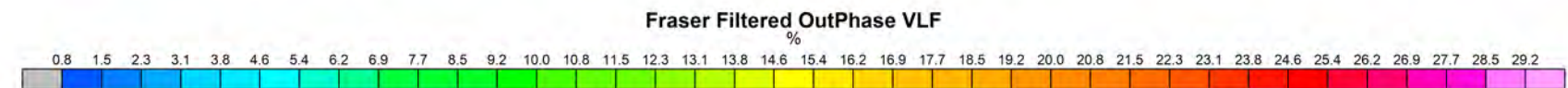
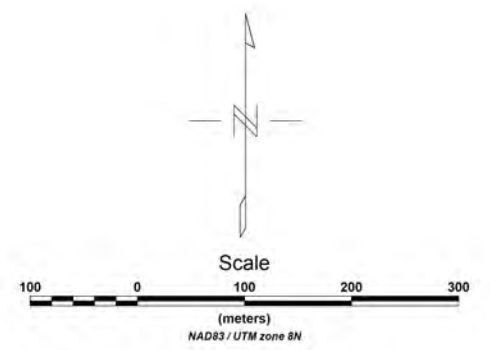
**FRASER FILTERED VLF**

FREQUENCY : 21.4 kHz Lauiliie, Hawaii, USA  
 INSTRUMENT : GEM MAG/VLF  
 PROFILE SCALE : 1 cm = 40%  
 QUADRATURE : -----



IN-PHASE DATUM : 0%  
 DATA FILE : OcelotMagVLF.gdb  
 OPERATORS : MC  
 STATION SEPARATION : 12.5 m  
 LINE-KM SURVEYED THIS SHEET : 10.5 km

**FIELD**



**ATAC MINERALS LTD.**

**RAU PROJECT**  
**OCELOT GRID**  
**FRASER FILTERED VLF WITH OUTPHASE PROFILES**

MAYO MINING DISTRICT, YT, CANADA / NTS : 106d/07  
 DATUM : NAD 83 / PROJECTION : UTM ZONE 8N  
 DATE SURVEYED : MAY, 2012 / SURVEYED BY : MC  
 DATE DRAWN : MAY, 2012 / DRAWN BY : MC

**AURORA GEOSCIENCES LTD.**



